HISTORIC AND DESIGN REVIEW COMMISSION

December 04, 2019

HDRC CASE NO:	**2019-070**
ADDRESS:	801 N OLIVE ST 701 NOLAN
COMMON NAME:	LOCKWOOD PARK, DIGNOWITY PARK
LEGAL DESCRIPTION:	NCB 539 BLK LOT P-100 NCB 548 BLK 10 LOT ALL OF 10
ZONING:	RM-4,H
CITY COUNCIL DIST.:	2
DISTRICT:	Dignowity Hill Historic District
APPLICANT:	Elaine Kearney/TBG Partners
OWNER:	CITY OF SAN ANTONIO
TYPE OF WORK:	Park improvements
APPLICATION RECEIVED:	November 08, 2019
60-DAY REVIEW:	January 07, 2020
CASE MANAGER:	Stephanie Phillips

REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to carry out various park improvements at Lockwood Park and Dignowity Park, in order to create a unified destination park that appeals to the needs of neighborhood residents and provide a location for city-wide events. The applicant is requesting approval to:

1. Permanently close a segment of Burnett Street, between N Olive and N Hackberry.
2. Perform various hardscape and landscape modifications.
3. Install a Portland Loo restroom facility.
4. Install a fenced dog park.
5. Perform various park improvements, to include playground and recreational equipment modifications.

APPLICABLE CITATIONS:

UDC Sec. 35-641. - Design Considerations for Historic and Design Review Commission Recommendations.
In reviewing an application, the historic and design review commission shall be aware of the importance of attempting to find a way to meet the current needs of the City of San Antonio, lessee or licensee of public property. The historic and design review commission shall also recognize the importance of recommending approval of plans that will be reasonable to implement. The best urban design standards possible can and should be employed with public property including buildings and facilities, parks and open spaces, and the public right-of-way. Design and construction on public property should employ such standards because the use of public monies for design and construction is a public trust. Public commitment to quality design should encourage better design by the private sector. Finally, using such design standards for public property improves the identity and the quality of life of the surrounding neighborhoods.

UDC Sec 35-642. – New Construction of Buildings and Facilities:
In considering whether to recommend approval or disapproval of a certificate, the historic and design review commission shall be guided by the following design considerations. These are not intended to restrict imagination, innovation or variety, but rather to assist in focusing on design principles, which can result in creative solutions that will enhance the city and its neighborhoods. Good and original design solutions that meet the individual requirements of a specific site or neighborhood are encouraged and welcomed.
(a) Site and Setting.
(1) Building sites should be planned to take into consideration existing natural climatic and topographical features. The intrusive leveling of the site should be avoided. Climatic factors such as sun, wind, and temperature should become an integral part of the design to encourage design of site-specific facilities which reinforces the individual identity of a neighborhood and promotes energy efficient facilities.
(2) Special consideration should be given to maintain existing urban design characteristics, such as setbacks, building heights, streetscapes, pedestrian movement, and traffic flow. Building placement should

enhance or create focal points and views. Continuity of scale and orientation shall be emphasized.
(3) Accessibility from streets should be designed to accommodate safe pedestrian movement as well as vehicular traffic. Where possible, parking areas should be screened from view from the public right-of-way by attractive fences, berms, plantings or other means.
(4) Historically significant aspects of the site shall be identified and if possible incorporated into the site design. Historic relationships between buildings, such as plazas or open spaces, boulevards or axial relationships should be maintained.
(b) Building Design.
(1) Buildings for the public should maintain the highest quality standards of design integrity. They should elicit a pride of ownership for all citizens. Public buildings should reflect the unique and diverse character of San Antonio and should be responsive to the time and place in which they were constructed.
(2) Buildings shall be in scale with their adjoining surroundings and shall be in harmonious conformance to the identifying quality and characteristics of the neighborhood. They shall be compatible in design, style and materials. Reproductions of styles and designs from a different time period are not encouraged, consistent with the secretary of the interior's standards. Major horizontal and vertical elements in adjoining sites should be respected.
(3) Materials shall be suitable to the type of building and design in which they are used. They shall be durable and easily maintained. Materials and designs at pedestrian level shall be at human scale, that is they shall be designed to be understood and appreciated by someone on foot. Materials should be selected that respect the historic character of the surrounding area in texture, size and color.
(4) Building components such as doors, windows, overhangs, awnings, roof shapes and decorative elements shall all be designed to contribute to the proportions and scale of their surrounding context. Established mass/void relationships shall be maintained. Patterns and rhythms in the streetscape shall be continued.
(5) Colors shall be harmonious with the surrounding environment, but should not be dull. Choice of color should reflect the local and regional character. Nearby historic colors shall be respected.
(6) Mechanical equipment or other utility hardware should be screened from public view with materials compatible with the building design. Where possible, rooftop mechanical equipment should be screened, even from above. Where feasible, overhead utilities should also be underground or attractively screened. Exterior lighting shall be an integral part of the design. Interior lighting shall be controlled so that the spillover lighting onto public walkways is not annoying to pedestrians.
(7) Signs which are out of keeping with the character of the environment in question should not be used. Excessive size and inappropriate placement on buildings results in visual clutter. Signs should be designed to relate harmoniously to exterior building materials and colors. Signs should express a simple clear message with wording kept to a minimum.
(8) Auxiliary design. The site should take into account the compatibility of landscaping, parking facilities, utility and service areas, walkways and appurtenances. These should be designed with the overall environment in mind and should be in visual keeping with related buildings, structures and places.

FINDINGS:

a. The properties located at 701 Nolan (Dignowity Park) and 801 N Olive (Lockwood Park), are public parks located east of Downtown within the Dignowity Hill Historic District. The applicant is requesting approval for various park improvements in order to create a unified destination park.
b. The applicant received conceptual approval from the Historic and Design Review Commission (HDRC) on March 6, 2019. The approval carried the following stipulations:
    1. That the applicant more clearly delineates the segment of Burnett Street, between N. Olive and N. Hackberry, with the use of hardscape features; **this stipulation has been met.**
    2. That the applicant coordinates with the City Arborist's office to develop a comprehensive tree preservation plan and landscaping plan for final approval, and indicate where existing trees will be removed, if applicable; **this stipulation has been met.**
    3. ARCHAEOLOGY – The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology; **this stipulation applies to final approval.**
c. STREET CLOSURE – The applicant has proposed to permanently close a segment of Burnett Street between N. Olive and N. Hackberry, including demolition of existing curbs, asphalt, and overhead electric poles in this area. By closing this segment of the street, the historic development pattern of the district will not be negatively impacted.

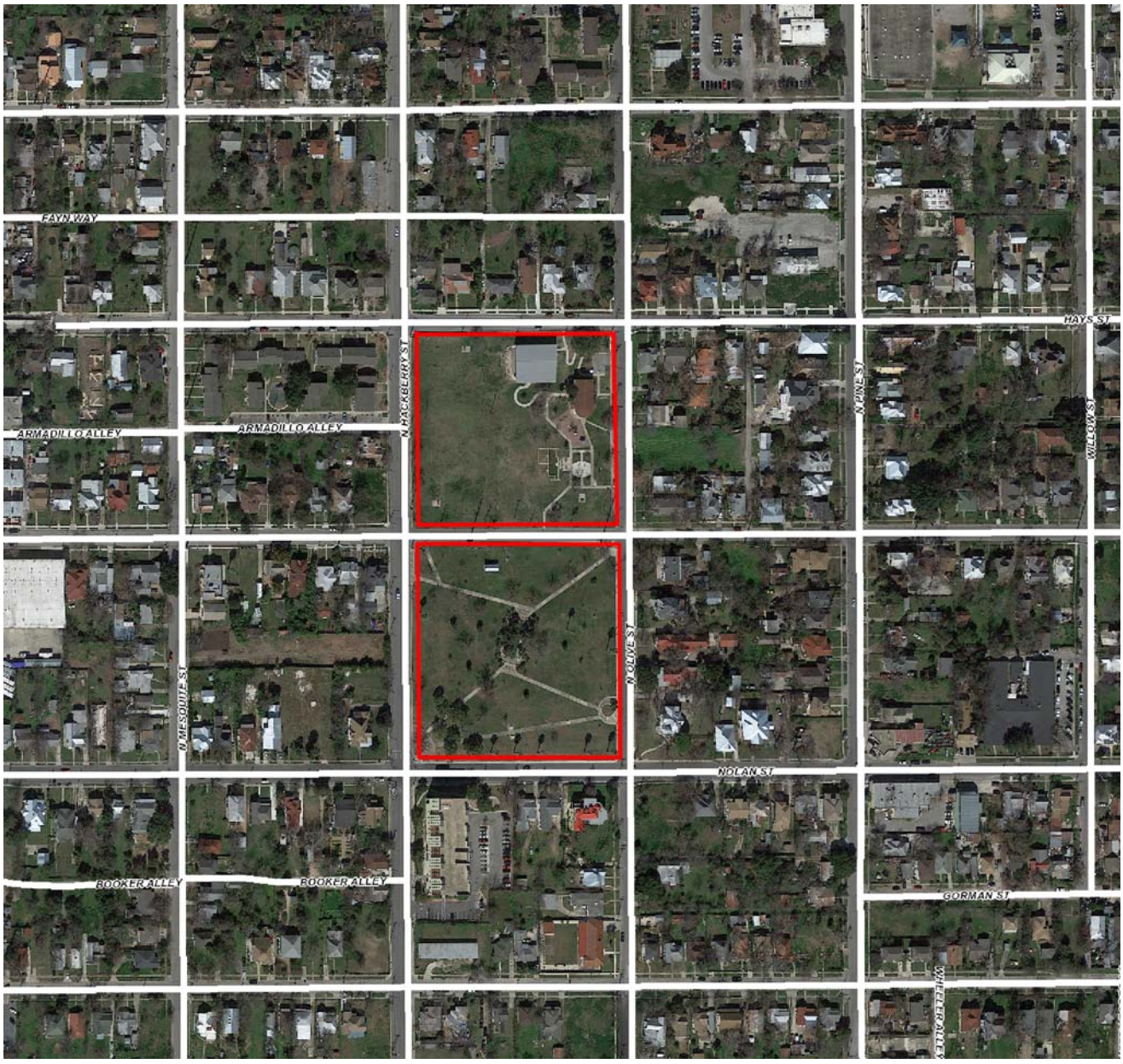
However, staff finds that the location of the street segment could be more clearly delineated with the use of hardscape features to serve as a visual reminder of the presence of this street. Staff finds the proposal to be appropriate with the stipulations listed in the recommendation.

d. HARDSCAPE AND LANDSCAPE MODIFICATIONS – The applicant has proposed to perform various hardscape and landscape modifications, including the selective removal of vegetation and trees and selective demolition of existing brick retaining walls, concrete site furnishings, hardscape, existing playground and exercise equipment, pole-mounted park lighting. The extent of demolition of the existing irrigation system will require further assessment. Staff finds the proposal consistent with the UDC.
e. RESTROOM FACILITY – The applicant has proposed to install a new Portland Loo single restroom facility. Staff finds the proposal consistent with the UDC.
f. PARK IMPROVEMENTS – The applicant has proposed various park improvements, including the construction of a playground, restroom facilities, power infrastructure that can support large events, splashpad, fenced dog park, walkways, site lighting, and sidewalk improvements. Staff finds the proposal consistent with the UDC.

RECOMMENDATION:

Staff recommends approval based on findings a through f with the following stipulations:

i. ARCHAEOLOGY – The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.



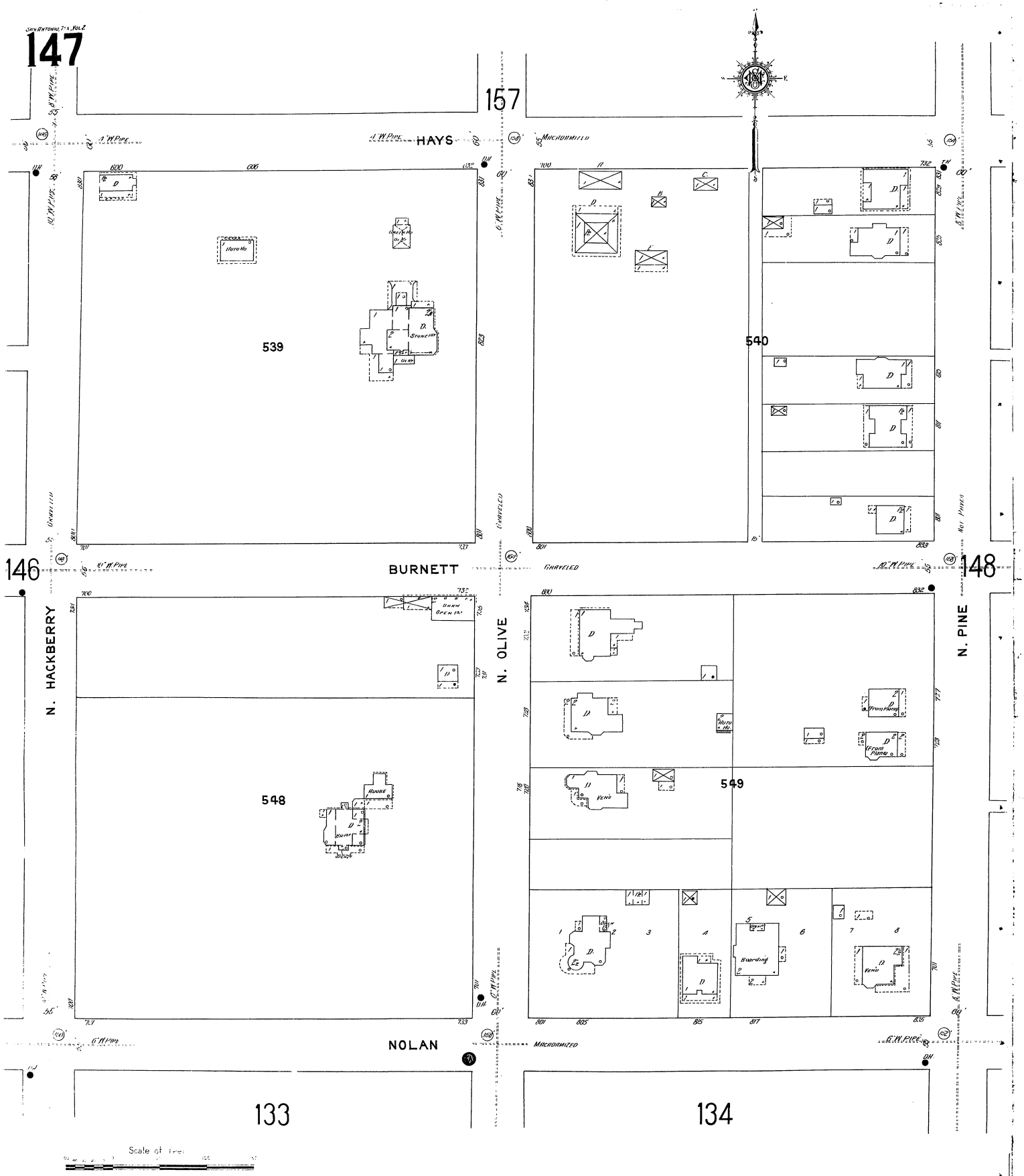
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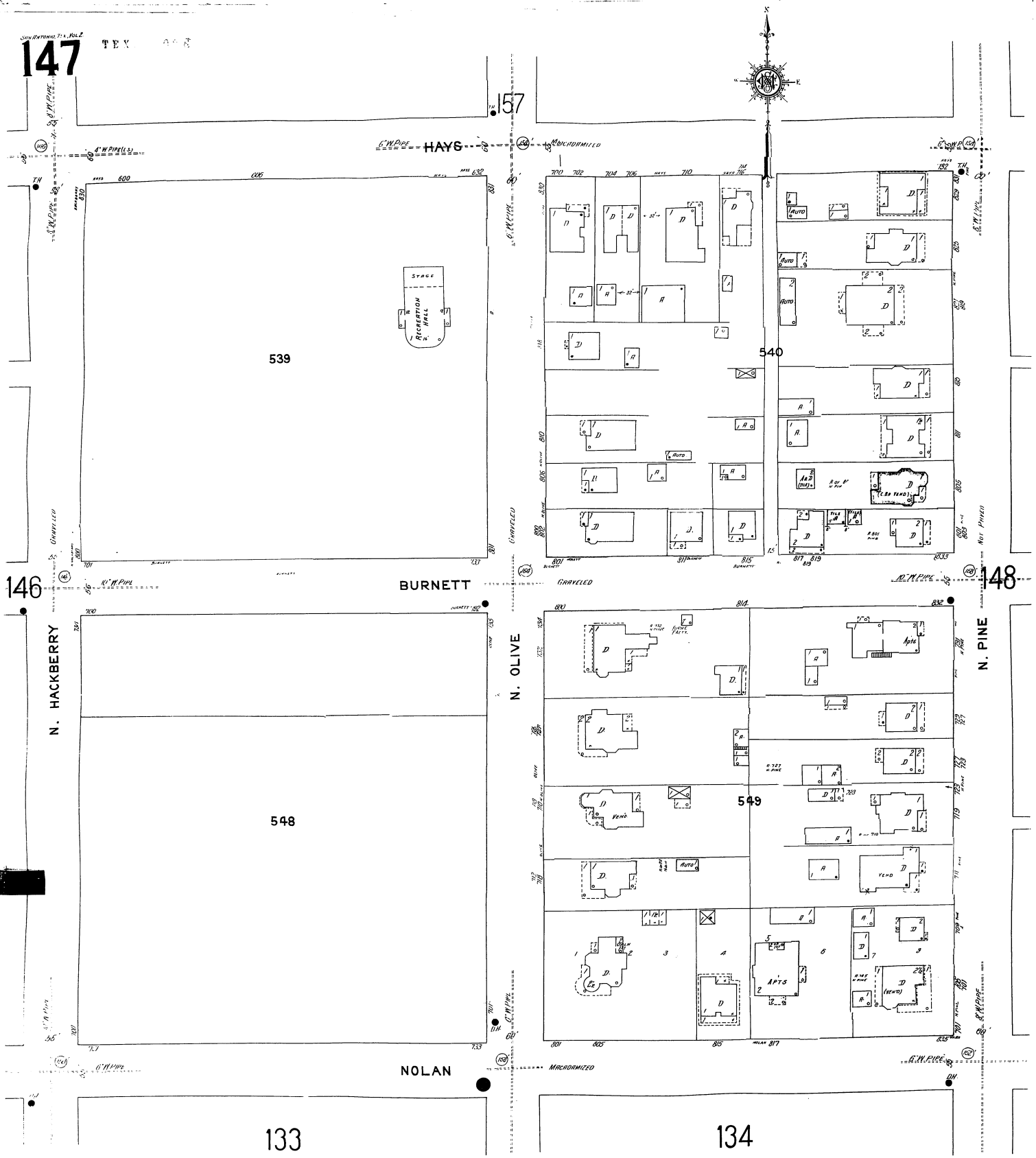
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Printed:Feb 27, 2019

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SAN ANTONIO, TEX., VOL. 2
147
157
HAYS
MUCHUMUCK
539
540
146
BURNETT
GRAVELED
148
N. HACKBERRY
N. OLIVE
N. PINE
548
549
NOLAN
MACADAMIZED
133
134
Scale of Feet


147
157
HAYS
6" W. Pipe
4" W Pipe (L.S.)
Macadamized
Graveled
539
540
548
549
146
148
BURNETT
NOLAN
N. HACKBERRY
N. OLIVE
N. PINE
Stage
Recreation Hall
Apts
(Vend)
133
134
Scale of Feet

To Whom it May Concern,

We are pleased to submit this application to the Historic & Design Review Commission for Final Approval of Lockwood-Dignowity Park improvements. A Certificate of Appropriateness was issued on March 6th, 2019 with the following stipulations:

1. That the applicant more clearly delineate the segment of Burnet Street, between N. Olive and N. Hackberry, with the use of hardscape features.
2. That the applicant coordinate with the City Arborist's office to develop a comprehensive tree preservation plan and landscaping plan for final approval, and indicate where existing trees will be removed, if applicable.
3. The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

The project has addressed these comments as follows:

1. Additional paving has been added to delineate the former segment of Burnet Street between N. Olive and N Hackberry. For the western segment, it is proposed to salvage and reset historic pavers as a pedestrian surface (or install grass pavers if this is not feasible). For the eastern portion of Burnet, we have proposed new concrete paving. Please Reference Sheet LS1.02.
2. The design team met with Assistant City Arborist Herminio Griegio regarding tree preservation at TCI's Design Development review on April 10th, 2019, as well as on site on July 12th, 2019. Using this information, we have developed comprehensive tree preservation plans (see sheets LTP1.01-LTP1.02). Landscaping plans can be found on sheets LP1.01 – LP2.02.
3. Throughout project development, the 2017-2022 Lockwood-Dignowity Park Bond Project has been coordinating with the Transportation and Capital Improvements (TCI) Environmental Management Division and the Office of Historic Preservation to perform all necessary natural and cultural resource due-diligence, permitting, and compliance efforts to include archeology reviews in accordance with the City's Historic Preservation and Design Section of the Unified Development Code and to address requirements of the Texas Antiquities Code. As part of that due-diligence, an archeological investigation conducted by the University of Texas at San Antonio (UTSA) Center for Archaeological Research (CAR) was completed in January 2019. A final archeological report was provided to the TCI Environmental Management Division, City Archaeologist Kay Hindes with the Office of Historic Preservation and the Project Team in order to identify potential conflicts presented by the proposed project. The Project Team has made design modifications intended to eliminate any possible effect the proposed project might have on known archeological resources. Continued oversight by TCI Environmental Management Division as recommended by the CAR report and as required by the Office of Historic Preservation will continue through construction in order to protect existing as well as possible undiscovered resources.

TBG

DESIGN NARRATIVE

The construction documents for Lockwood-Dignowity Park Bond Improvements include program elements prioritized through a lengthy public input process, including input gathered by neighborhood residents in attendance at the Public Input meeting held on May 22, 2018 at the Martinez Street Women's Center. The elements that emerged focused on the creation of a destination park that accomplishes the closure of Burnet Street and appeals to the needs of neighborhood residents for improved walking trails, restroom facilities, and playground equipment. The design also takes into consideration the ability to host city-wide events such as Luminaria and Beer Fest.

Prioritized improvements therefore include the permanent closure of Burnet Street, a playground, restroom facilities, and power infrastructure that can support large events. Furthermore, the program includes a fenced dog park, and additional walkways and lighting. These improvements are focused on safety, circulation, and improved opportunities for exercise.

Demolition

Demolition will include selective removal of shrubby vegetation and trees, especially around the Harmony House plaza where safety concerns exist. A small number of trees in conflict with the proposed sports field and other new improvements will need to be removed or relocated. The hardscape and existing playground and exercise equipment will be removed, as will most of the outdated and inefficient pole-mounted park lighting. In order to facilitate the closure of Burnett Street, curbs and asphalt will be removed, but the existing road base and underground utilities will remain in place. The plans also call for the removal of standard voltage overhead electric poles along Burnett Street (the high voltage transmission lines will remain, necessitating CPS vehicular access). Please refer to the Demolition Plan included in the construction drawing set. Please note that the small stone structure (which has been deemed of local historic value) is to remain in its current state. No modifications are proposed to the covered basketball structure nor the Martinez Street Women's Center at this time.

Landscape Site Preparation

Existing trees will be preserved per the tree preservation plans provided on sheets LTP1.01-LTP1.02. Every attempt will be made to balance cut and fill on site. A limited amount of mass grading will occur to shape the site to accommodate new ADA accessible paths, create level areas, and topography for the playground, and to bring the footprint of Burnett Street up to match surrounding grade. Imported topsoil will be required at new planting areas.

Park Elements

Improved Circulation

Circulation and connectivity within the park is improved through the creation of a new central spine, which arcs from the lower corners of the park and provides a safe, ADA accessible route to the activities which are clustered at the center of the park. Additional sidewalks have been added along the full frontages of both Olive and Hackberry streets. Secondary walkways connect and define the informal playfield, the picnic area and playground, and provide an important east-west connection through the site.

The Front Porch

A linear arrangement of porch swings on the high side of the park near Martinez Street Women's Center are intended to provide social seating for everyone from teenagers to older residents who wish to appreciate the views of San Antonio and be near the activity of the playground and splashpad without being right in the fray. Each swing will accommodate two to three users and consist of metal structures that integrate seating suspended from cables.

Playground

The park playscape will combine custom and prefabricated elements that will be integrated into land forms to provide a completely unique play experience. The emphasis will be on selecting structures that have natural materials such as wood, rope, etc wherever possible. Boulders and berms will to help naturalize the play area and to provide informal seating. Providing shade (both through shade sails and shade trees) is a priority.

Splashpad

The splashpad has been removed from the project due to budget constraints.

Restroom

A Portland-Loo style restroom has been included near the playground at the center of the park.

Harmony Plaza

Changing the perception of Harmony Plaza will be key to the success of this project. By increasing visibility into this segment of the park and activating it with regular users, such as dog-owners, it can become a pleasant, shaded "garden room". The recommendation is to remove all enclosing vegetation, remove the hardscape in favor of decomposed granite, and add string-lighting and moveable tables and chairs.

Dog Park

Dog-Nowity Park is a fully fenced dog park with separate areas for small and large dogs. It can be accessed from Harmony Plaza. The surfacing is specified as hardwood mulch. Accessories will include benches, a water fountain with dog bowl, and dog waste bag dispensors.

Informal Playfield

The informal playfield takes advantage of the southeast area of the park that is relatively flat and clear of trees. Selective removal of a few trees will allow this area to function as an informal field for kicking around a soccer ball or playing flag football.

Event Lawn / Event Power

The arcing pathway defines the edge of a naturally occuring slope where festival or concert-goers might spread out blankets to enjoy a pop-up event with clear sightlines to the bottom of the hill. Event Power located in close proximity to Hackberry will allow vendors to easily set up for large events in the park. See the MEP narrative for additional information.

Site Lighting

Site lighting is an important aspect of making the park inviting and safe to all users. The first priority is to light the major interior pathways and activity zones, such as the playground, splashpad, and dog park. String lights are

included at Harmony Plaza. The arcing pathway will be lit with bollards, while all other lighting will be achieved with pedestrian pole lights. Please refer to the MEP narrative for additional information.

Hardscape

The primary hardscape material will be standard broom-finish concrete for all plazas, sidewalks and walkways. Stabilized decomposed granite is proposed for the "front porch" and Harmony plaza. Playground areas will include a combiniation of wood fibar, rubberized surfacing and synthetic turf. The dog park will be dressed with hardwood mulch. Mesa grande blocks line the edges of the playscape, plaza and Harmony Plaza to resolve grade and provide informal seating for events and gatherings.

Planting

All planting will consist of low maintenance drought tolerant species. Shrub beds are limited to focal areas at playground and plaza. Shade trees will line the front porch, arc walk, and dog-nowity park.
Larger shade trees and ornamentals will be installed at the playground area to provide seasonal color and to highlight key elements of the playscape. Turf will be installed in areas that are disctubed during construction.

Irrigation

Irrigation will be focused on providing water to the limited areas of ornamental planting, to new trees, at the event lawn, and the informal sports field. Irrigation will be drip, unless otherwise noted.

Mechanical Design Narrative

A. Plumbing Systems:

1. Drinking Fountains
    - The intent is to connect to the domestic water service for new drinking fountains, providing a coordinated effort with the civil engineer. Sanitary from the drinking fountain(s) is anticipated to discharge to the sanitary sewer systems associated with the restroom facilities.
    - The drinking fountain shall be a stainless steel, ADA, bi-level, barrier-free, vandal-resistant, drinking fountain MOST DEPENDABLE FOUNTAINS, INC Model MDF 440-10145SM, color green, or equivalent. The fountain shall be lead-free and provided with corrosion resistant coating. The drinking fountain will be provided with water bottle fill station. The two (2) fountains anticipated for the dog parks will be provided with dog bowls.
    - Drinking fountain drain lines shall discharge to a dedicated dry well located below grade in the vicinity of the fixture served.

2. Restroom Utility Provisions (Portland Loo)
    - The intent is to connect a new 1-1/2" domestic water service with backflow prevention and 4" sanitary for the new Portland Loo stand-alone bathroom, providing a coordinated effort with the civil engineer. Civil is expected to provide the line extension from N. Hackberry.

Electrical Design Narrative

A. Existing and Demolition Electrical:

1. Electrical Services, Power and Lighting:
    - The existing open field floodlights mounted on wood poles including the electrical service shall be removed. A pole mounted transformer along Burnet St. to be closed is to be removed.
    - The pole mounted transformer for the existing Electrical service at the open field area lighting also provides secondary power to a metered service at the Restroom Building which is to be demolished.
    - The existing limited Historic value Restroom Building will remain with no improvements.
    - The existing aerial primary and power poles will require removal by CPS Energy presently installed along Burnet street to be closed off for park improvements.
    - An existing aerial CPSE high voltage primary will need to remain along Burnet. An easement for the primary will require that there be no major structures be planned within the easement.
    - Existing park floodlights on a wood pole located near the Restroom building shall be removed for construction of a new walkway extending from one end of the park to the opposite end at the intersection of N. Hackberry and Nolan Streets.
    - At the Lockwood area of the park an existing covered structure with seating, other features, electrical wiring and lighting in this area shall be removed and demolished for park improvements.
    - An existing electrical service located along Hays Street is to remain. The overhead metered service presently serves the Women's Shelter and the Basketball Court lighting. This will be confirmed in a site visit survey in the next submission phase.
    - An existing metered service located at the intersection with Burnet Street and N. Olive Street will require relocation or complete removal. It is unknown currently if this service is active and if it needs to remain in operation. This will be determined during a site visit survey in the next submission phase.
    - The existing Street lighting located along N. Olive Street and N. Hackberry Street will require removal and relocation by CPSE Energy to the opposite side of the streets to allow for new curbs realignments and side parking for vehicles. The removal of the existing poles and lighting is anticipated necessary to clear new proposed head in or street parallel parking.

B. Electrical Systems:

1. Front Porch with Swings:
    - New lighting in this area will consist of Pedestrian pole lighting mounted on concrete footings. The lighting is to be designed to satisfy IESNA illumination levels recommended for park facilities of an average of approximately 2-foot-candle level.

- New lighting and associated controls to comply per the current IECC 2015 shall be provided. A Lighting Relay panel with photocell and time switch is required to satisfy the Energy code for all exterior lighting controls.
- A new electrical service is proposed to serve the pedestrian lighting along the front porch area including some of the other areas in the park including event power and the Pump structure for the water splash area in the park. The new proposed power pole with a CPSE transformer bank will consist of a 120/208V, 3ph, 4 wire service for the pedestrian lighting in addition to in-ground mounted receptacles for Food trucks and special power for a music event in the improved landscaped area.
- A new panelboard will be designed to serve all lighting and power in the park areas with new sidewalks, plaza, front porch area and playscape area construction.
- In ground waterproof floor boxes with 30 ampere, 208V receptacles for the food trucks will be provided. Each receptacle will be provided with a GFCI module ahead of the receptacle.

2. Festival Plaza:
   - New lighting in this area will consist of Pedestrian pole lighting mounted on concrete footings. The lighting is to be designed to satisfy IESNA illumination levels recommended for park facilities of an average of approximately 2-foot-candle level.
   - Lighting will be connected to the new Lighting Relay Panel to be located at the proposed service for all new park Pedestrian lighting.
   - Two power pedestals for Music event power will be provided at the locations required. A 100-ampere pedestal mounted on a concrete footing will be provided at locations required in the open improved landscape areas. Each power pedestal will include multiple 208V, 30 ampere and 50 ampere receptacles.
3. Nature based Playscape:
   - New lighting in the playscape area will consist of Pedestrian pole lighting mounted on concrete footings. The lighting is to be designed to satisfy IESNA illumination levels recommended for park facilities of an average of approximately 2-foot-candle level.
   - Lighting will be connected to the new Lighting Relay Panel to be located at the proposed service for all new park Pedestrian lighting.

4. Park Pedestrian Lighting:
   - New Pedestrian lighting located along a new proposed sidewalk extending from one end of the park to the opposite end of the park shall consist of bollard type lighting fixtures mounted on concrete footings. Pedestrian lighting shall also extend along a proposed main entrance to the park from N. Hackberry Street. The lighting is to be designed to satisfy IESNA illumination levels recommended for park facilities with an average of approximately 2-foot-candle level.
   - Lighting will be connected to the new Lighting Relay Panel to be located at the proposed service for all new park Pedestrian lighting.
   - Power pedestals for USB type charging outlets may be provided at locations along the walkway where required with aesthetic considerations.
   - Two power pedestals for Music event power will be provided at the locations required. A 100-ampere pedestal mounted on a concrete footing will be provided at locations required in the

open improved landscape areas. Each power pedestal will include multiple 208V, 30 ampere and 50 ampere receptacles.

5. Improved Streetscape Lighting along N. Hackberry St.
   - Lighting shall consist of a different and distinct Pedestrian type light pole along the sidewalk at four locations along a new sidewalk.
   - The new lighting is to be located as follows along N. Hackberry Street:
     1) A pedestrian light pole at each intersection on Hackberry at Hays and Nolan Streets.
     2) Two light poles on either side of a new walkway located where Burnet street was located.
   - The pedestrian lighting will be served from the new electrical service to be located along N. Hackberry Street.
6. Improved Streetscape Lighting Along Olive street:
   - Lighting shall consist of a different and distinct Pedestrian type light pole along the sidewalk at four locations along a new sidewalk.
   - The new lighting is to be located as follows along N. Hackberry Street:
     1) A pedestrian light pole at each intersection on Hackberry with Hays and Nolan Streets.
     2) Two light poles on either side of a new walkway located where Burnet street was located.
   - The pedestrian lighting will be served from the new electrical service to be located along N. Hackberry Street.
7. Harmony House Plaza (old Dignowity park):
   - Catenary lighting mounted on poles that span the short dimension of the plaza area are proposed. Strings of lights are proposed over the plaza area with seating. This lighting will be connected to the electrical service and associated lighting relay panel.
8. Open Field for Music Events:
   - Two power pedestals for Music event power will be provided at locations required. A 100-ampere pedestal mounted on a concrete footing will be provided at the events stage area for music activities. Each power pedestal will include multiple 208V, 30 ampere and 50 ampere receptacles.
   - Power for the pedestals will be fed from the proposed main electrical service.

Applicable Codes

- Life Safety Code, NFPA 101, 2006 edition, and all reference codes.
- International Building Code, 2018 edition, International Code Council, Inc. and COSA Amendments
- International Plumbing Code, 2018 edition, International Code Council, Inc. and COSA Amendments
- International Mechanical Code, 2018 edition, International Code Council, Inc. and COSA Amendments
- Applicable ANSI, ASTM and ASME codes and standards
- Applicable OSHA, EPA and Texas Commission on Environmental Quality (TCEQ) regulations
- Texas Accessibility Standards (TAS), Texas Department of Licensing and Regulations, Architectural Barriers Act, Ch. 469, Government Code.
- Americans with Disabilities Act, Public Law 101-336, enacted July 26, 1990
- IESNA Standards

- NFPA 70, 2017 National Electric Code
- 2018 International Energy Conservation Code with local amendments.

End of Final Review Narrative

SHEET INDEX

EXISTING

CONTEXT ANALYSIS

EXISTING CONDITIONS- ANALYSIS

EXISTING SITE PHOTOS

EXISTING SITE PHOTOS

SITE SURVEY

PROPOSED IMPROVEMENTS

95% CONSTRUCTION DOCUMENTS

TBG

dignowity
lockwood
park

sheet index

san antonio, texas

HDRC final review application

11/08/2019

TBG
430 Austin street
suite 200
san antonio, tx 78215

[210] 366–9933
tbgpartners.com

The information shown is based on the best information available and is subject to change without notice.

SITE PLAN DIAGRAMS

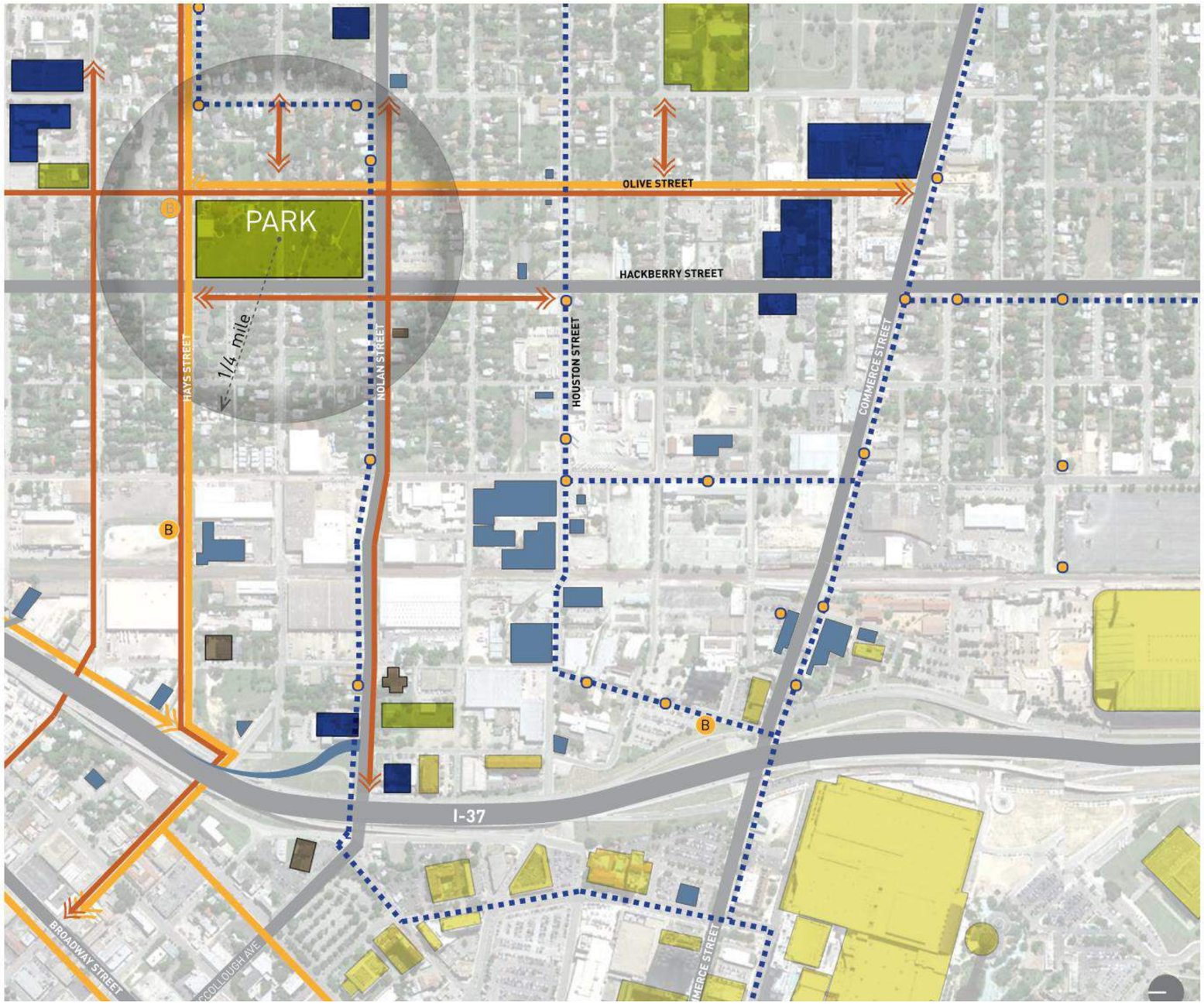
Neighborhood & City Connections

ADJACENT AMENITIES & ATTRACTIONS

- Education & Community
- Food & Entertainment
- Public Parks
- Social Services
- Hotels & Attractions

TRANSPORTATION

- Bike
- Pedestrian
- Vehicle
- Bus Route
- Bus Stop
- B-cycle Station: Existing
- B-cycle Station: Future



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dignowity lockwood park

context analysis

san antonio, texas

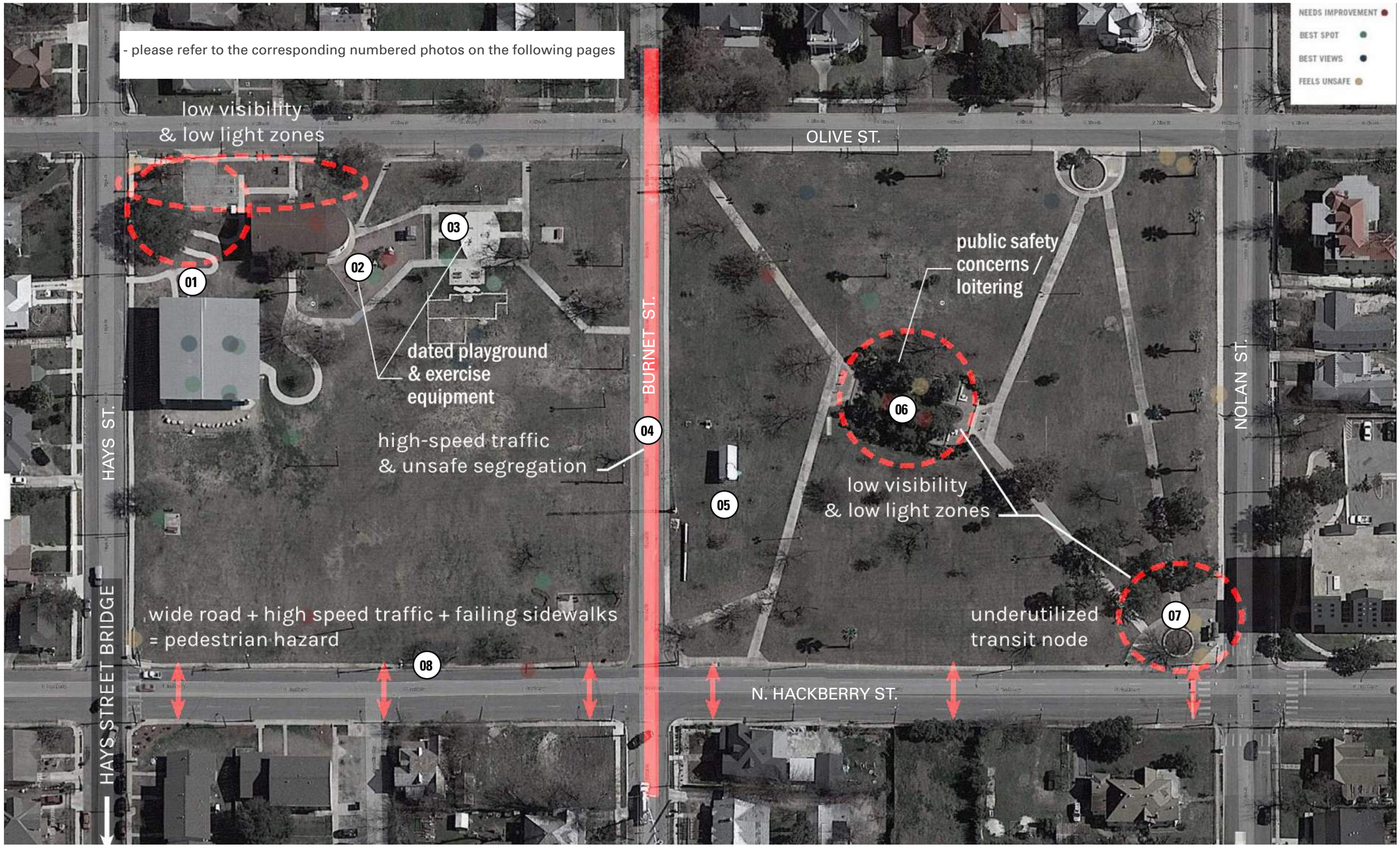
HDRC final review

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dignowity lockwood park

existing park conditions analysis

san antonio, texas

HDRC final review

11/08/2019

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430 Austin street
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san antonio, tx 78215

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01. existing covered basketball court



02. dated playground equipment / no shade



03. dated exercise equipment



04. Burnet street divides the park in half; is a major obstacle to park use and safety

TBG

dignowity lockwood park

site photos

san antonio, texas

HDRC final review

11/08/2019

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The information shown is based on the best information available and is subject to change without notice.



05. stone structure (note also high voltage overhead power lines)



06. plaza area which is prone to loitering & safety concerns



07. bus stop at corner of Nolan and Hackberry



08. sidewalk along Hackberry is in poor condition and obstructed

TBG

dignowity lockwood park

site photos

san antonio, texas

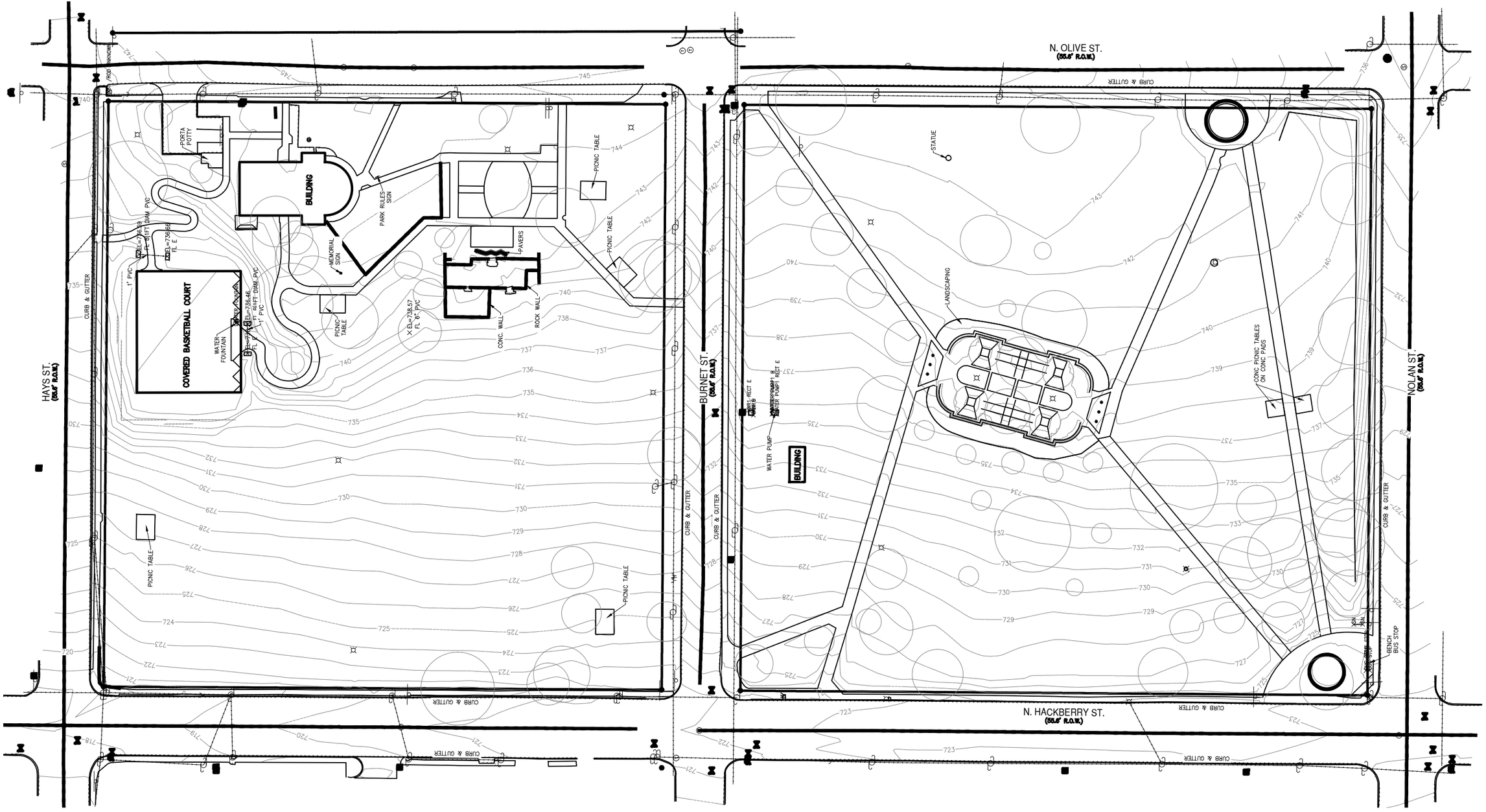
HDRC final review

11/08/2019

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430 Austin street
suite 200
san antonio, tx 78215

[210] 366–9933
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The information shown is based on the best information available and is subject to change without notice.



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dignowity lockwood park

site survey

san antonio, texas

HDRC final review

11/08/2019

0 10′ 35′ 70′ 140′

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suite 200
san antonio, tx 78215

[210] 366–9933
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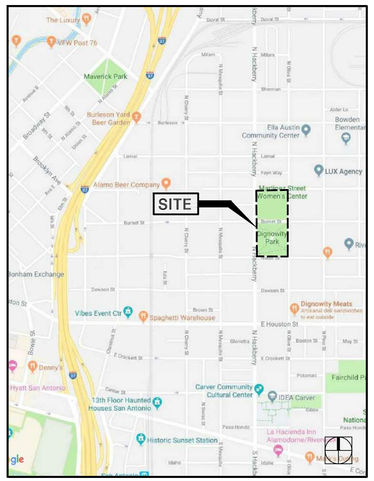
ISSUE FOR CONSTRUCTION DRAWINGS FOR:

DIGNOWITY / LOCKWOOD PARK

San Antonio, Texas

Grading/Sitework/Planting/Irrigation/Lighting/Furnishings

LOCATION MAP



CITY COUNCIL:

MAYOR
Ron Nirenberg

CITY COUNCIL
Robert Trevino
Art Hall
Rebecca Viagran
Rey Saldana
Shirley Gonzalez
Greg Brockhouse
Ana Sandoval
Manny Pelaez
John Courage
Clayton Perry

ADMINISTRATION:

CITY MANAGER
Erik Walsh

DIRECTOR OF PARKS AND RECREATION
Xavier D. Urrata

INTERIM DIRECTOR OF TRANSPORTATION AND CAPITOL IMPROVEMENTS
Razi Hosseini

PROJECT COORDINATOR
Eric Reyna

A PROJECT BY

OWNER:
City of San Antonio

CONTACT: Eric Reyna
San Antonio, Texas
O: 210/207-4131

STRUCTURAL ENGINEER:
Intelligent Engineering

CONTACT: Agustin Tellez
10001 Reunion Place, Suite 200
Union Square II
San Antonio, TX 78216
O: 210/349-8841

M.E.P. ENGINEER:
CNG Engineering

CONTACT: Raymond Ochoa
1917 N. New Braunfels Ave., #201
San Antonio, TX 78208
O: 210/224-8841

SURVEYING:
HMT ENGINEERING AND SURVEYING

CONTACT: Chris Crim
8200 Interstate 10
Frontage Road #810
San Antonio, TX 78230
O: 830/625-8555

LANDSCAPE ARCHITECT:
TBG

CONTACT: Elaine Kearney
430 Austin Steet, Suite 200
San Antonio, TX 78215
O: 210/366-9933

CIVIL ENGINEER:
WGI

CONTACT: Jeremy Doege
5710 W Hausman Rd. #115
San Antonio, TX 78249
O: 210/860-9224

IRRIGATION DESIGNER:
PRA Irrigation

CONTACT: Paul Radlet
3619 Broadway, Suite 13
San Antonio, TX 78209
O: 210/412-1908

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	AUGUST 5, 2019	Issue for Construction	Overall Site Plan	C 3.0
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landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
tbgpartners.com

REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KEARNEY
3109
STATE OF TEXAS
08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

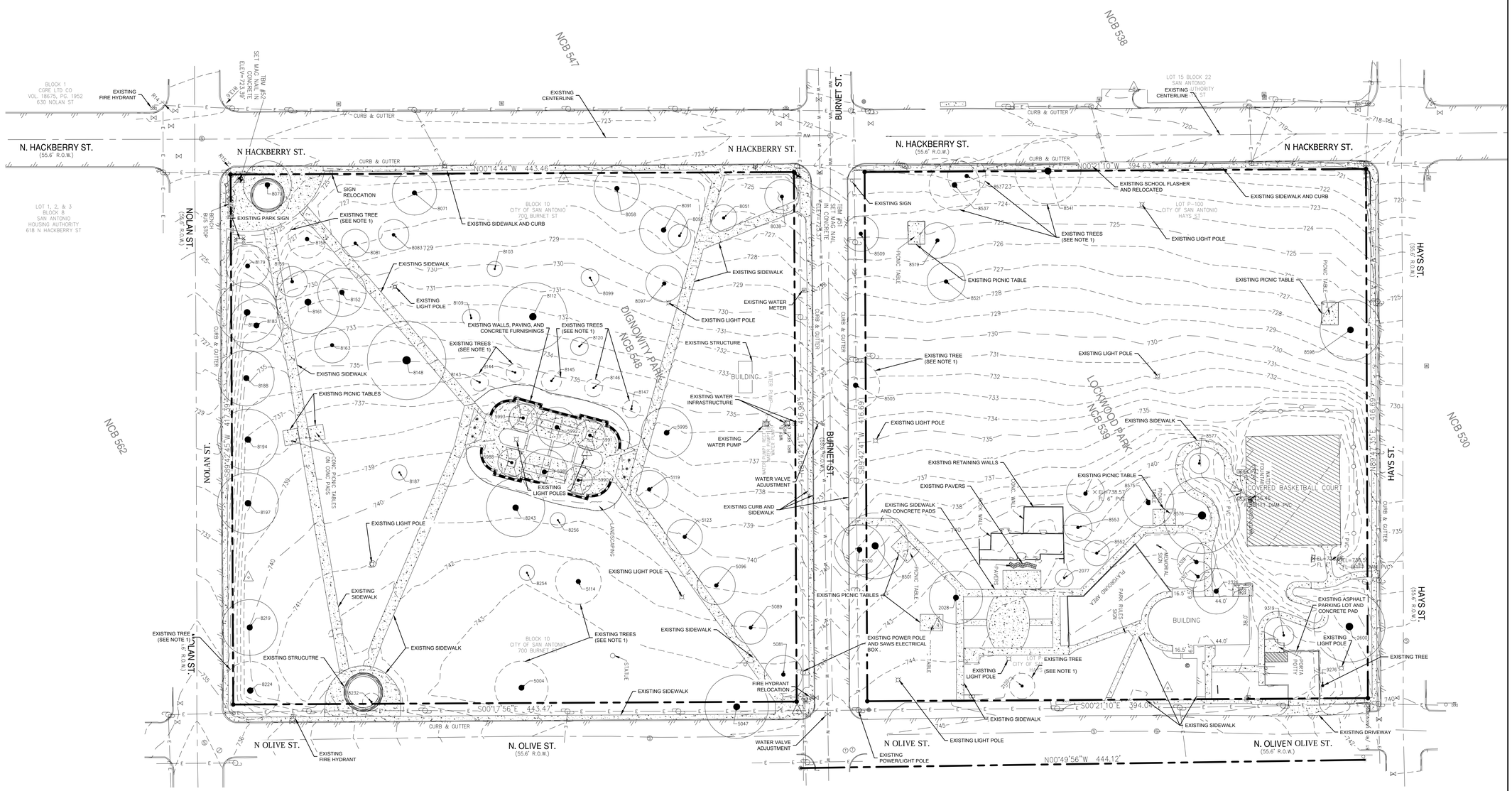
issue date
november 8, 2019

designed: MD, AB, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
cover sheet

sheet
LC 1.00

P:\a18096 - dignowity-lockwood\03 development\04 contract documents\04 CAD\02 sheets\01-LC\A18096- LC1-00.dwg



LEGEND:

- ● = FND 1/2" IRON PIN
- B.L. = BUILDING SETBACK LINE
- U.E. = UTILITY EASEMENT
- D.E. = DRAINAGE EASEMENT
- R.O.W. = RIGHT-OF-WAY
- ( ) = PLAT CALLS
- R.C.P. = REINFORCED CONCRETE PIPE
- P.O.B. = POINT OF BEGINNING
- P.U.E. = PUBLIC UTILITY EASEMENT
- E/B = EMBANKMENT/BACKSLOPE EASEMENT
- E,T,G,C,P,W,S,D,E. = ELECTRIC, TELEPHONE, GAS CABLE T.V., POSTAL, WATER SANITARY SEWER AND DRAINAGE EASEMENT
- ○ = SET 1/2" IRON PIN W/ PLASTIC CAP STAMPED "HMT" UNLESS OTHERWISE NOTED
- ● = FND "X" IN CONC
- = TRANSFORMER
- = TELEPHONE VAULT
- = WATER METER
- = ELECTRIC JUNCTION BOX
- = TELEPHONE PEDESTAL
- = CABLE PEDESTAL
- = WATER VALVE
- = CLEAN OUT
- = WOOD FENCE
- = ELECTRIC METER
- = ELECTRIC PEDESTAL
- = LIGHT STANDARD
- = LIGHT POLE
- = FIRE HYDRANT
- = WELL
- = MONITORING WELL
- = SAMPLE WELL
- = GAS VALVE
- = GAS METER
- = SANITARY SEWER MANHOLE
- = STORM DRAIN MANHOLE
- = ELECTRIC MANHOLE
- = TELEPHONE MANHOLE
- = SIGN
- = MAILBOX
- = BLOWOFF VALVE
- = SPRINKLER HEAD
- = POWER POLE W/ CONDUIT
- = POWER POLE
- = POWER POLE W/ LIGHT
- = GUY ANCHOR
- = TRAFFIC SIGNAL POLE
- = PARKING METER
- = FLAG POLE
- = PIPE LINE VENT
- = PIPE LINE VALVE
- = ELECTRIC METER POLE
- = SEPTIC
- = UNDERGROUND PROPANE
- = GUARD POST
- = TEMPORARY BENCHMARK
- = TELEPHONE VAULT
- = A/C UNIT
- = IRRIGATION CONTROL BOX
- ICV = IRRIGATION CONTROL VALVE
- = TRAFFIC CONTROL BOX
- = INLET
- SPGT = SPIGOT
- E = OVERHEAD ELECTRIC
- = BARBED WIRE FENCE
- = CHAIN LINK FENCE
- = PIPE FENCE
- = WOOD FENCE
- = WROUGHT IRON FENCE
- = EDGE OF ASPHALT
- = CONCRETE
- = COVERED CONCRETE
- = WOOD DECK
- = FLAG STONE IN CONC
- = GRAVEL

NOTE:

1. REFERENCE TREE PRESERVATION PLAN FOR TREE REMOVAL. (REFERENCE SHEET LTP 1.02)
2. THIS SURVEYOR HAS NOT CONDUCTED A TITLE SEARCH TO DEPICT OTHER MATTERS OF RECORD, SUCH AS EASEMENTS, SETBACKS, RESTRICTIONS OR OTHER ENCUMBRANCES THAT MAY AFFECT THIS PROPERTY.
3. BEARINGS SHOWN HEREON ARE BASED ON THE TEXAS COORDINATE SYSTEM, SOUTH CENTRAL ZONE (4204), NAD 83.
4. TREE SYMBOLS SHOWN HEREON ONLY REPRESENT THE LOCATION OF THE TREE. THE ACTUAL DRIP-LINE OF THE TREE(S) ARE NOT REPRESENTED ON THIS SURVEY. TREES LOCATED BY SURVEY CREW, NOT ARBORIST.
5. ELEVATIONS SHOWN HEREON ARE BASED ON NAVD 1988.

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landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

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a division of WGL

5710 WEST HAUSMAN ROAD, SUITE 115
SAN ANTONIO, TEXAS 78249 FIRM NO: F-15085
(210) 860-9224 - WWW.BIGREDDOG.COM

STATE OF TEXAS
JEREMY DOEGE
97269
LICENSED
PROFESSIONAL ENGINEER
07-31-2019

project
dignowity lockwood park
80% construction documents

City of San Antonio
San Antonio, Texas

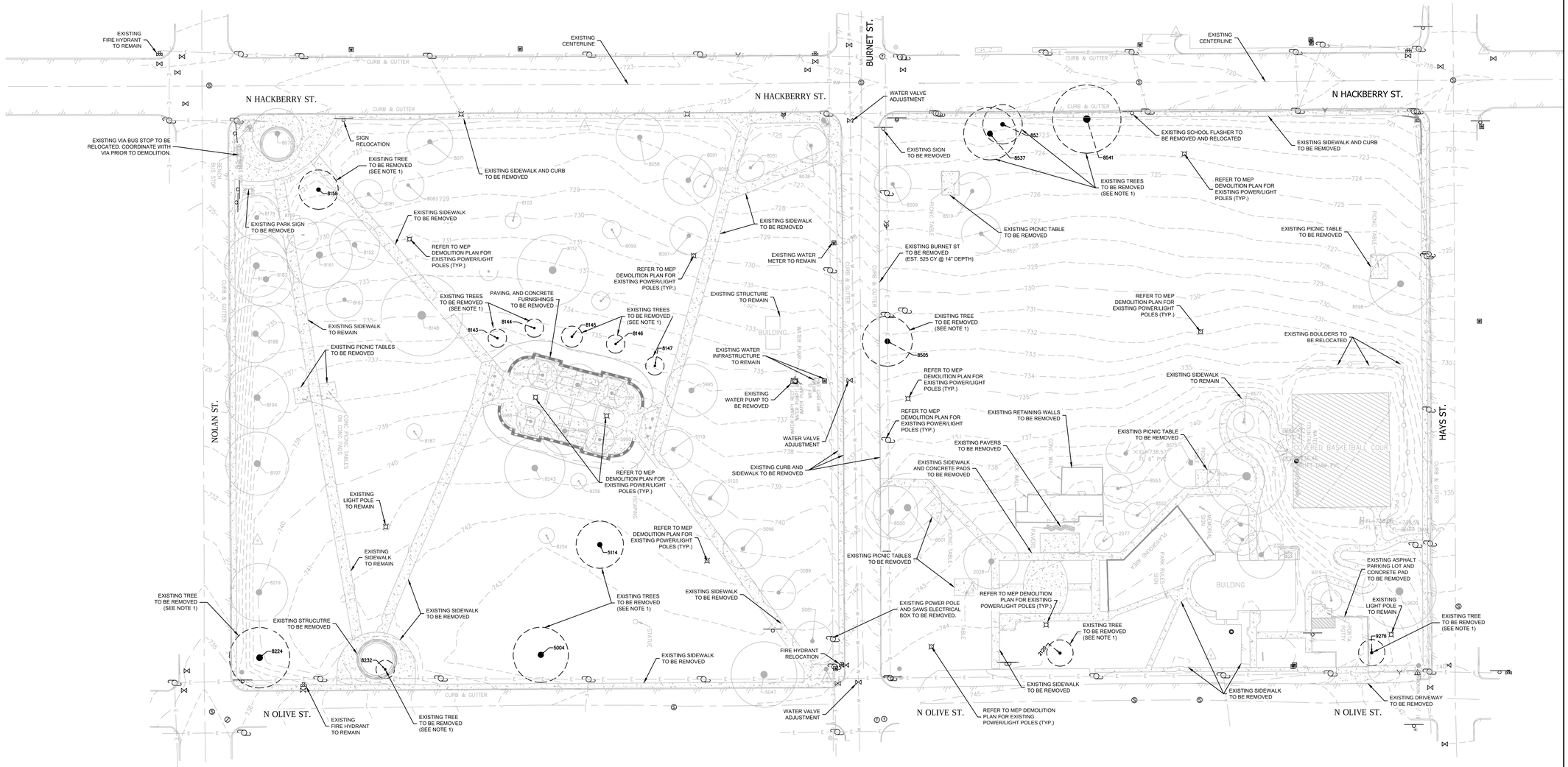
project number
A18096

issue date
november 8, 2019

designed:
drawn:
reviewed:

sheet title
existing conditions

sheet
C 1.0



0 10' 20' 40' 80'
SCALE: 1"=40'

NORTH

LEGEND

EXISTING TO BE DEMOLISHED

NOTE:

1. REFERENCE TREE PRESERVATION PLAN FOR TREE REMOVAL. (REF. SHEET LTP 1.02)

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1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

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5710 WEST HAUSMAN ROAD, SUITE 115
SAN ANTONIO, TEXAS 78249 FIRM NO: F-15085
(210) 860-9224 - WWW.BIGREDDOG.COM

STATE OF TEXAS
JEREMY DOEGE
97269
LICENSED
PROFESSIONAL ENGINEER

07-31-2019

project
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100% construction documents

City of San Antonio
San Antonio, Texas

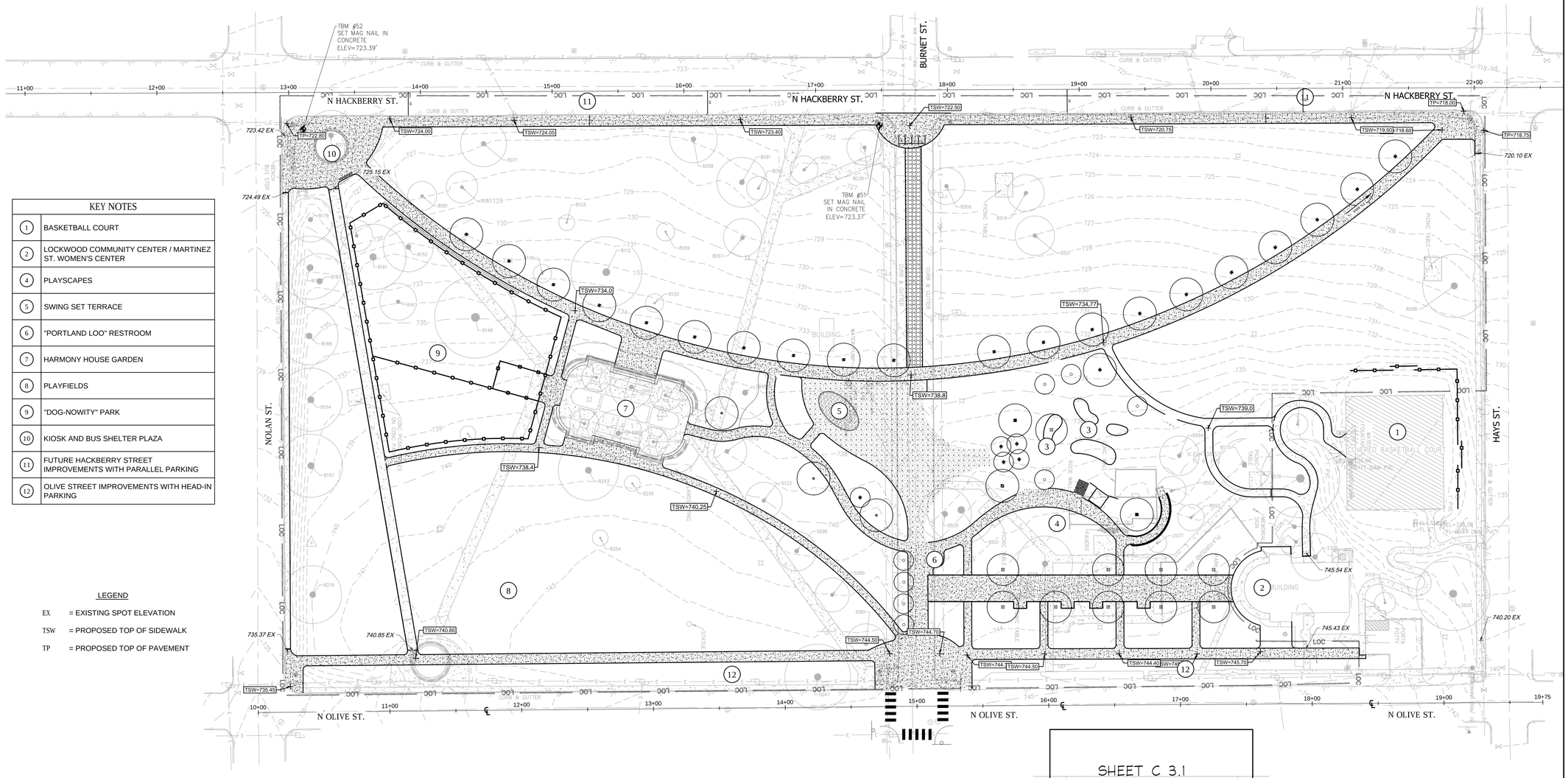
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november 8, 2019

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drawn:
reviewed:

sheet title
demolition plan

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C 2.0



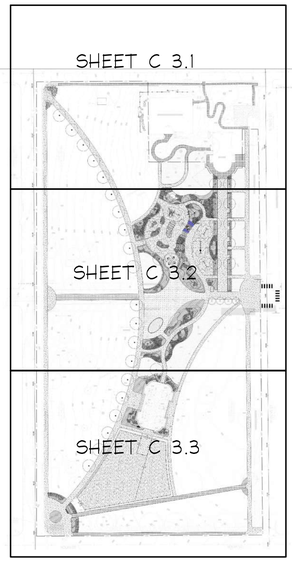
KEY NOTES	
1	BASKETBALL COURT
2	LOCKWOOD COMMUNITY CENTER / MARTINEZ ST. WOMEN'S CENTER
4	PLAYSCAPES
5	SWING SET TERRACE
6	"PORTLAND LOO" RESTROOM
7	HARMONY HOUSE GARDEN
8	PLAYFIELDS
9	"DOG-NOWITY" PARK
10	KIOSK AND BUS SHELTER PLAZA
11	FUTURE HACKBERRY STREET IMPROVEMENTS WITH PARALLEL PARKING
12	OLIVE STREET IMPROVEMENTS WITH HEAD-IN PARKING

LEGEND

EX = EXISTING SPOT ELEVATION

TSW = PROPOSED TOP OF SIDEWALK

TP = PROPOSED TOP OF PAVEMENT



INDEX MAP

0 10' 20' 40' 80'
SCALE: 1"=40'

NORTH

NOTES:

1. REFERENCE ARCHITECTURAL GRADING PLAN FOR DETAIL GRADING.
2. SIDEWALKS SHALL NOT EXCEED A 2% CROSS SLOPE AND A MAXIMUM RUNNING SLOPE OF 5% ACROSS THE PROJECT SITE PER ADA/TAS.
3. REFERENCE SHEET C 3.0 FOR SIDEWALK ELEVATIONS.

TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

BIG RED DOG
a division of WGL

5710 WEST HAUSMAN ROAD, SUITE 115
SAN ANTONIO, TEXAS 78249 FIRM NO: F-15085
(210) 860-9224 - WWW.BIGREDDOG.COM

STATE OF TEXAS
JEREMY DOEGE
97269
LICENSED
PROFESSIONAL ENGINEER

07-31-2019

project
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100% construction documents

City of San Antonio
San Antonio, Texas

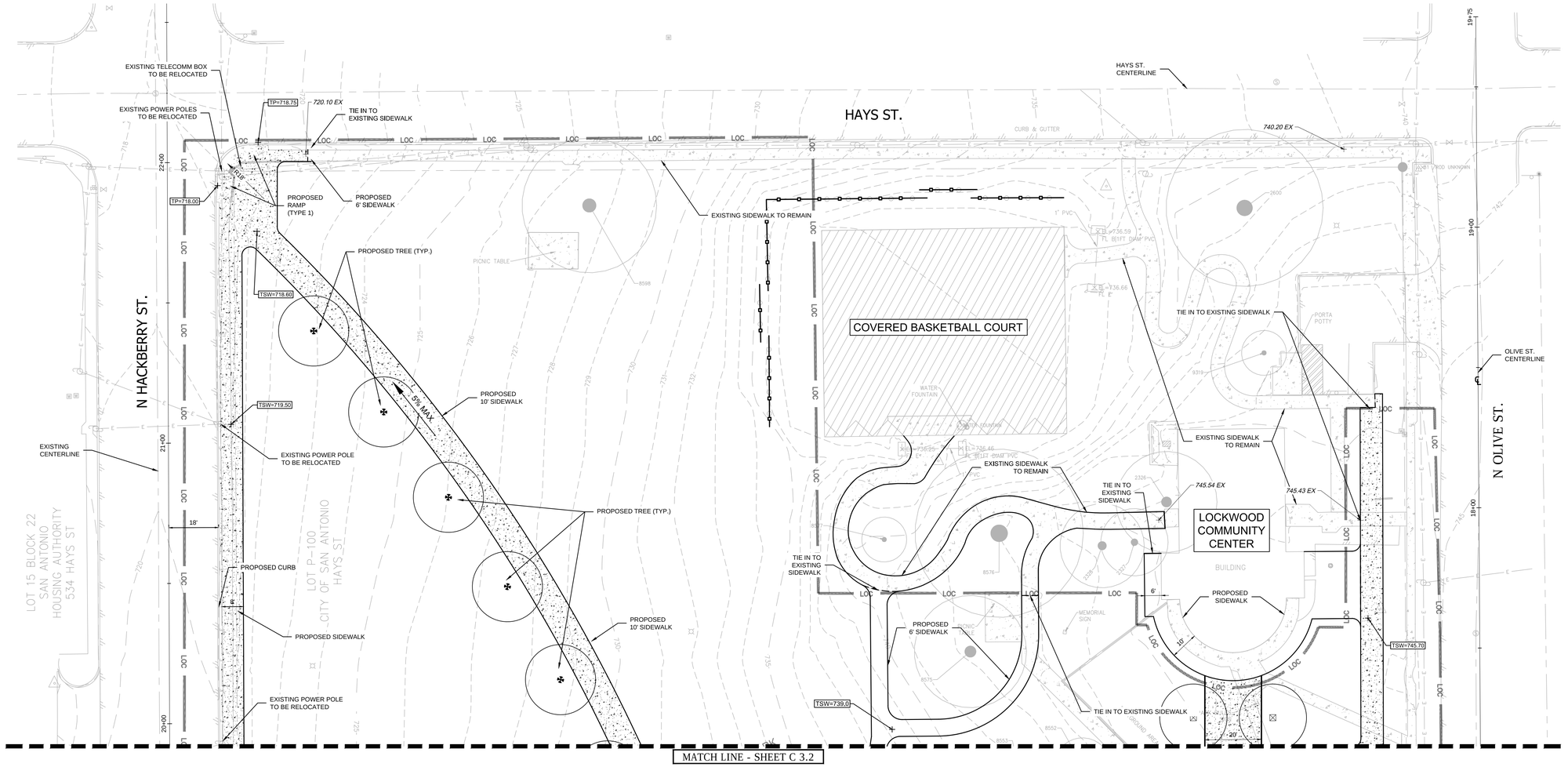
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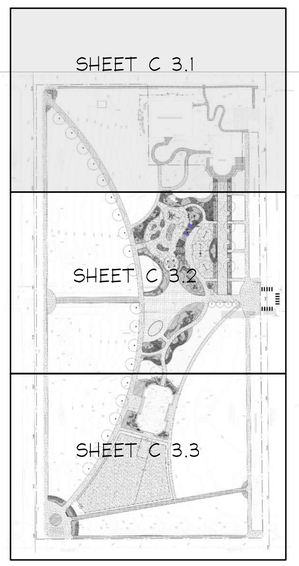
designed:
drawn:
reviewed:

sheet title
overall site plan

sheet
C 3.0



MATCH LINE - SHEET C 3.2



INDEX MAP

0 10' 20' 40' 80'
SCALE: 1"=40'

NORTH

NOTES:

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2. SIDEWALKS SHALL NOT EXCEED A 2% CROSS SLOPE AND A MAXIMUM RUNNING SLOPE OF 5% ACROSS THE PROJECT SITE PER ADA/TAS.
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TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

BIG RED DOG
a division of WGL

5710 WEST HAUSMAN ROAD, SUITE 115
SAN ANTONIO, TEXAS 78249 FIRM NO: F-15085
(210) 860-9224 - WWW.BIGREDDOG.COM

STATE OF TEXAS
JEREMY DOEGE
97269
LICENSED
PROFESSIONAL ENGINEER

07-31-2019

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100% construction documents

City of San Antonio
San Antonio, Texas

project number
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issue date
november 8, 2019

designed:
drawn:
reviewed:

sheet title
site plan a

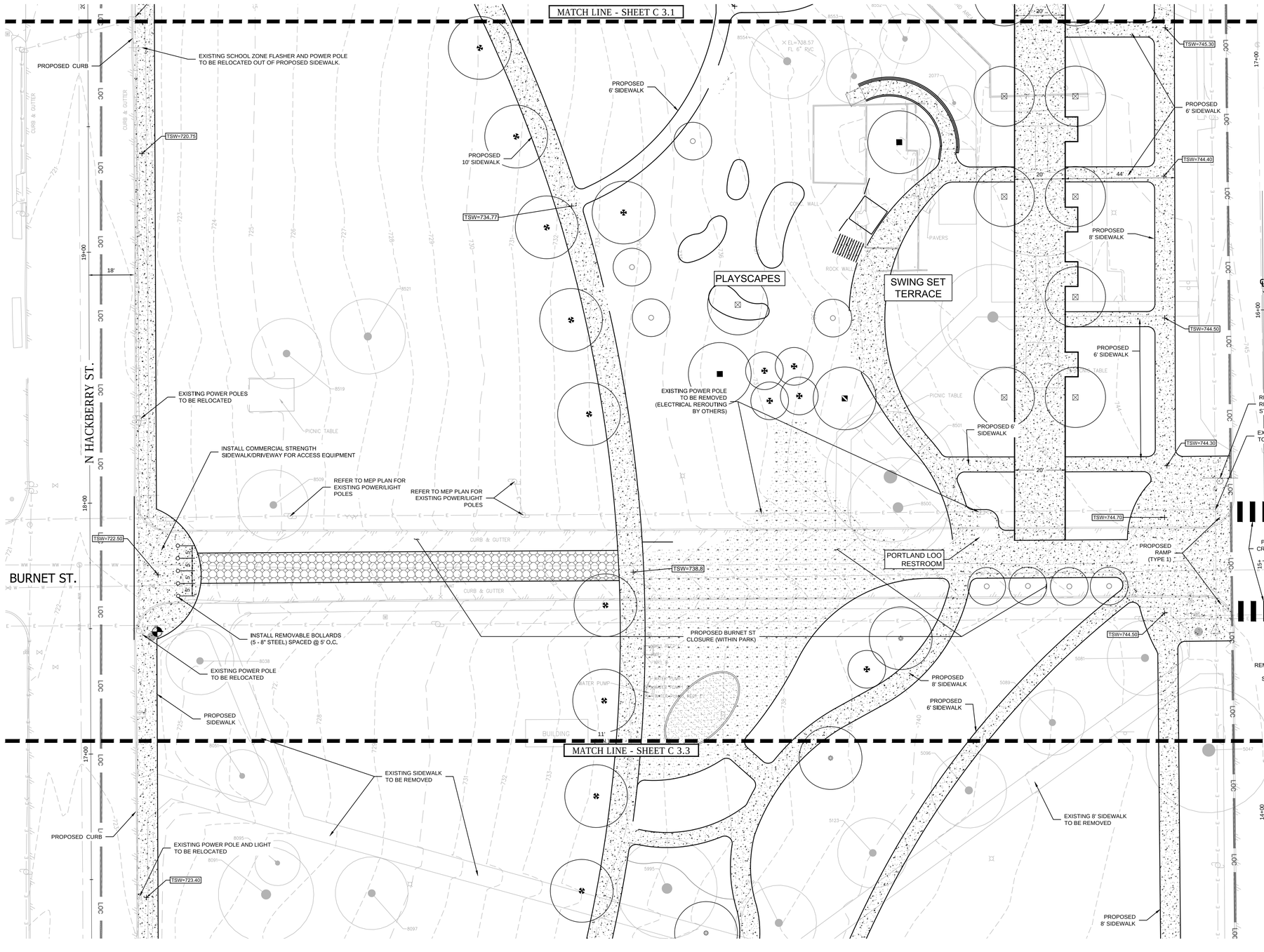
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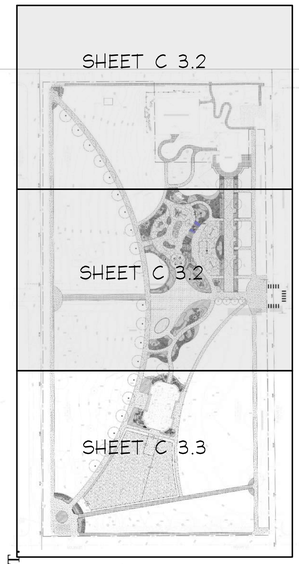
0 10' 20' 40' 80'
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NORTH

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INDEX MAP

TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

BIG RED DOG
a division of WGL

5710 WEST HAUSMAN ROAD, SUITE 115
SAN ANTONIO, TEXAS 78249 FIRM NO: F-15085
(210) 860-9224 - WWW.BIGREDDOG.COM

STATE OF TEXAS
JEREMY DOEGE
97269
LICENSED
PROFESSIONAL ENGINEER

07-31-2019

project
dignowity lockwood park
100% construction documents

City of San Antonio
San Antonio, Texas

project number
A18096

issue date
november 8, 2019

designed:
drawn:
reviewed:

sheet title
site plan b

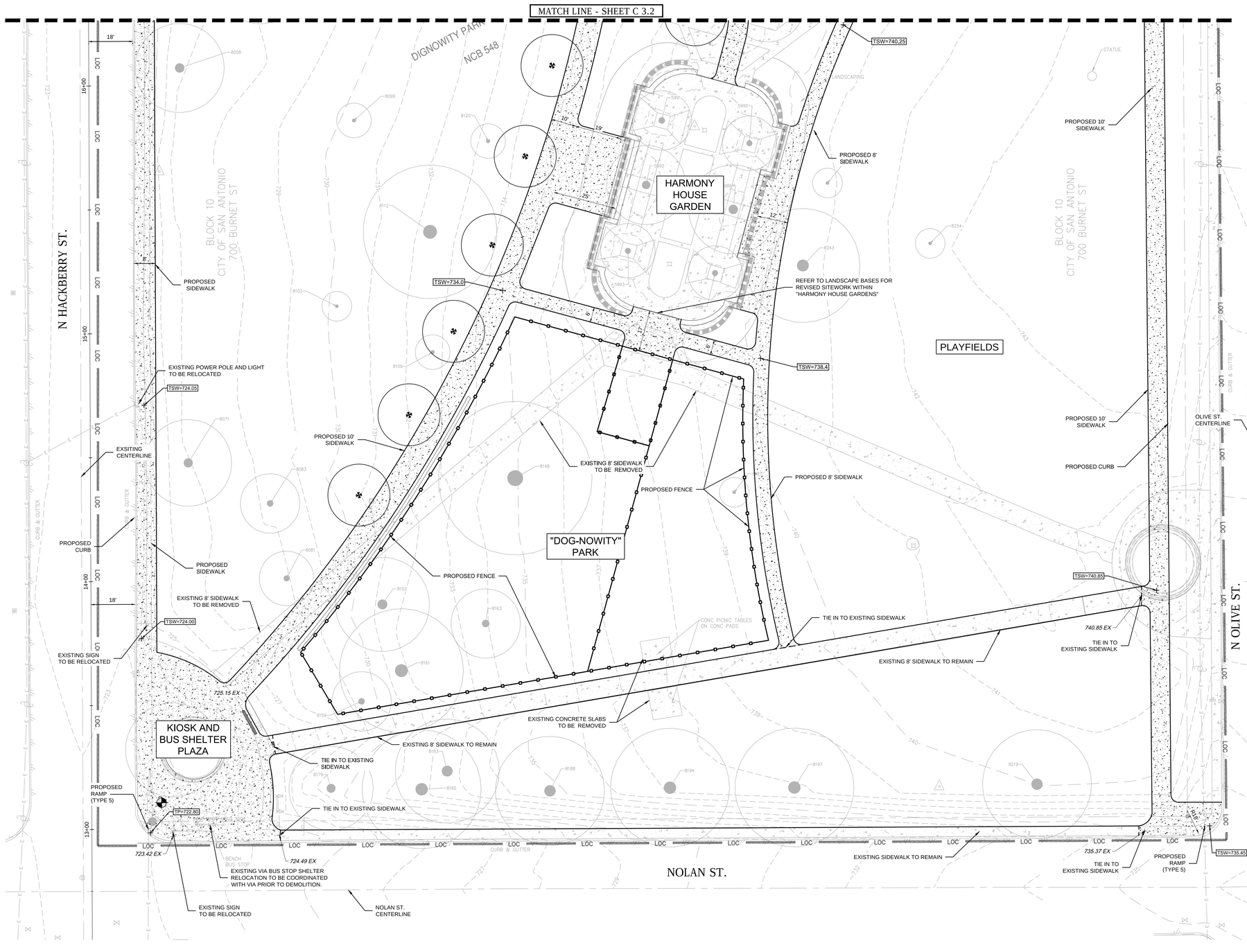
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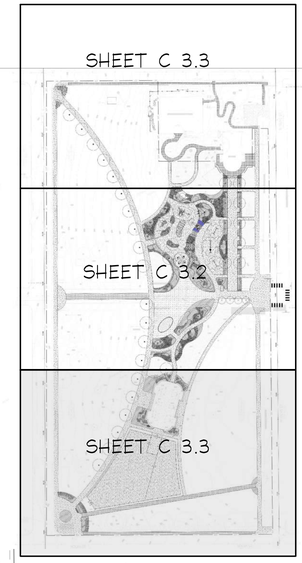
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NORTH

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INDEX MAP

TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

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a division of WGL

5710 WEST HAUSMAN ROAD, SUITE 115
SAN ANTONIO, TEXAS 78249 FIRM NO: F-15085
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STATE OF TEXAS
JEREMY DOEGE
97269
LICENSED
PROFESSIONAL ENGINEER

07-31-2019

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dignowity lockwood park
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City of San Antonio
San Antonio, Texas

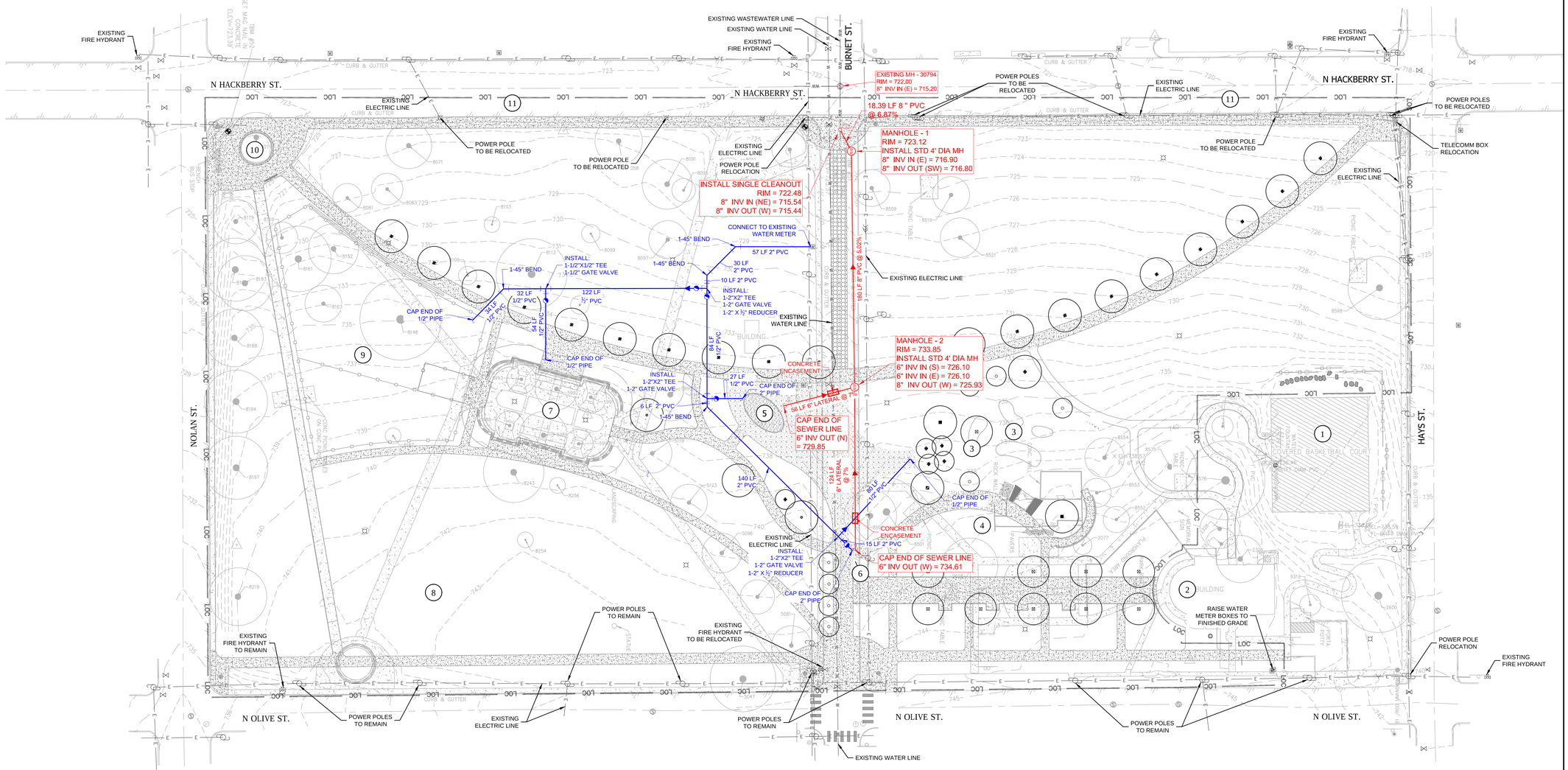
project number
A18096

issue date
november 8, 2019

designed:
drawn:
reviewed:

sheet title
site plan c

sheet
C 3.3



KEY NOTES	
1	BASKETBALL COURT
2	LOCKWOOD COMMUNITY CENTER / MARTINEZ ST. WOMEN'S CENTER
4	PLAYSCAPES
5	SWING SET TERRACE
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0 10' 20' 40' 80'
SCALE: 1" = 40'

NORTH

TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

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5710 WEST HAUSMAN ROAD, SUITE 115
SAN ANTONIO, TEXAS 78249 FIRM NO: F-15085
(210) 860-9224 - WWW.BIGREDDOG.COM

STATE OF TEXAS
JEREMY DOEGE
97269
LICENSED
PROFESSIONAL ENGINEER

07-31-2019

project
dignowity lockwood park
100% construction documents

City of San Antonio
San Antonio, Texas

project number
A18096

issue date
november 8, 2019

designed:
drawn:
reviewed:

sheet title
utility plan

sheet
C 4.0

ABBREVIATIONS

AG	ADJACENT GRADE
BLDG.	BUILDING
B.C.	BOTTOM OF CURB
BR	BOTTOM OF RAMP
B.S.	BOTTOM OF STAIR
B.W.	BOTTOM OF WALL
CJ	CONTROL JOINT
CL	CENTERLINE
CRZ	CRITICAL ROOT ZONE
EG	EXISTING GRADE
EJ	EXPANSION JOINT
FFE	FINISHED FLOOR ELEVATION
HP	HIGH POINT
L.A.	LANDSCAPE ARCHITECT
L.O.C.	LIMIT OF CONSTRUCTION
LP	LOW POINT
MIN.	MINIMUM
N.I.C.	NOT IN CONTRACT
O.C.	ON CENTER
O.C.E.W.	ON CENTER EACH WAY
PA	PLANTING AREA
PC	POINT OF CONNECTION
P.O.B.	POINT OF BEGINNING
REF.	REFERENCE
R.O.W.	RIGHT OF WAY
TB	TOP OF BENCH
T.C.	TOP OF CURB
TD	TOP OF DRAIN
TP	TOP OF PLANTER
TR	TOP OF RAMP
T.S.	TOP OF STAIR
T.W.	TOP OF WALL
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE

GENERAL LEGEND

SYMBOL	DESCRIPTION
GENERAL	
REF:	ENLARGEMENT AREA REFERENCE
MATCHLINE: X/XX.XX	SHEET MATCHLINE
L.O.C.	LIMIT OF CONSTRUCTION
	PROPERTY LINE
SITEWORK	
X / XX X.X	DETAIL REFERENCE
X.X	MATERIAL OR FINISH REFERENCE SYMBOL
X / LX X.X	SECTION CUT REFERENCE
XX / XX / XX	ELEVATION REFERENCE
PLANTING	
XXX	TREE LABEL
XX	PLANTING LABEL (SHRUB, ORNAMENTAL GRASS, PERENNIAL, VINE OR GROUNDCOVER)
GRADING	
912	EXISTING TOPOGRAPHY
XX.XX	SPOT ELEVATION
	PROPOSED TOPOGRAPHY
	WATER FLOW / SWALE
	DRAINAGE PIPE
	GRADE BREAK LINE
	PERCENT AND DIRECTION OF SLOPE
DIMENSIONING	
ALIGN	ALIGN ELEMENTS
℄	CENTERLINE

GENERAL LANDSCAPE NOTES:

1) THE CONTRACTOR SHALL BE FAMILIAR WITH EXISTING SITE CONDITIONS AND UNDERGROUND UTILITIES, SMALL PIPES AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO BODILY INJURY AND/OR DAMAGE TO OWNER'S PROPERTY OR SAID UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING UTILITY COMPANIES BEFORE EXCAVATION.

2) THE CONTRACTOR SHALL LOCATE AND VERIFY THE CONDITION OF UTILITIES PRIOR TO ANY EXCAVATION. EXTREME CARE SHALL BE EXERCISED IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. THE CONTRACTOR SHALL HAND DIG PLANTING PITS AND HAND RAKE LAWN AREAS AS REQUIRED.

3) ALL CONFLICTING INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

4) THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY HAVE NOT BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.

5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION WITH HIS SUBCONTRACTORS TO ACCOMPLISH HIS SCOPE OF WORK. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES WORKING ON THE SITE SIMULTANEOUSLY.

6) THE CONTRACTOR SHALL NOTIFY THE OWNER AND LANDSCAPE ARCHITECT 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULES.

7) THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING CONDITIONS AND SHALL PERFORM FIELD MEASUREMENTS PRIOR TO FABRICATION AND/OR PURCHASE OF ANY MATERIAL. THE CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT SHOULD EXISTING CONDITIONS BE DIFFERENT FROM THE DESIGN DRAWINGS FOR THIS PROJECT. ALL CONFLICTS ARISING DUE TO LACK OF COORDINATION SHALL BE THE RESPONSIBILITY AND EXPENSE OF THE CONTRACTOR.

8) ANY REQUIRED CHANGES TO THE DRAWINGS RESULTING FROM THE ACCEPTANCE OF THE CONTRACTOR'S ALTERNATES AND/OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT AND THE OWNER FOR APPROVAL.

9.) THE CONTRACTOR SHALL COORDINATE THE STORAGE OF MATERIALS, PARKING OF VEHICLES AND RESTRICTIONS OF WORK AND ACCESS WITH THE OWNER. UNDER NO CIRCUMSTANCES SHALL ANY CONTRACTOR STORE MATERIALS OR PARK VEHICLES UNDER THE CANOPY OF EXISTING TREES.

10) THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, ORDINANCES & CODE REQUIREMENTS. REQUIRED PERMITS SHALL BE OBTAINED BY THE CONTRACTOR.

11) THE CONTRACTOR SHALL PROVIDE UNIT PRICES BASED UPON THE QUANTITIES SHOWN WITHIN THE DOCUMENTS. FIELD CONDITIONS MAY REVISE ACTUAL LOCATION, INCREASING OR DECREASING THE EXTENT OF WORK PERFORMED. CHANGES TO THE EXTENT OF WORK RESULTING IN AN INCREASE OR DECREASE WILL BE BASED ON UNIT PRICES AND PERFORMED SUBJECT TO APPROVAL OF THE OWNER AND THE LANDSCAPE ARCHITECT IN THE FORM OF A CHANGE ORDER.

12) UNIT PRICES SHALL NOT ONLY INCLUDE THE COST OF THE ITEM BUT ALSO ALL LABOR, EQUIPMENT, AND OTHER MATERIALS (I.E. BACKFILL MIX, MULCH, STEEL EDGING, ETC.) ASSOCIATED WITH AND NECESSARY TO DELIVER THE ITEM COMPLETE AS DOCUMENTED IN THE DRAWINGS AND SPECIFICATIONS.

13) THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND SUPERVISION NECESSARY TO ACCOMPLISH THE WORK AS SHOWN AND NOTED ON THE DRAWINGS, UNLESS OTHERWISE NOTED.

14) ALL CONTRACTORS AND SUBCONTRACTORS ARE RESPONSIBLE FOR REMOVAL OF TRASH AND REPAIR OF HAZARDOUS CONDITIONS (I.E. TOOLS, OPEN HOLES, ETC.) ON A DAILY BASIS BY END OF WORK DAY.

15) UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL APPROVAL, THE CONTRACTOR SHALL THOROUGHLY CLEAN UP THE PROJECT SITE OF ALL TRASH, SCRAPS, BRICK, ROCKS, MORTAR, ETC. REPAIR ALL DAMAGE TO FINISH GRADE INCLUDING TAILINGS FROM EXCAVATIONS, WHEEL RUTS OR ANY SETTLING OR EROSION OCCURRING PRIOR TO COMPLETION.

MATERIALS SCHEDULE

CONCRETE

KEY	DESCRIPTION /MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
C.1	CONCRETE	STANDARD	MEDIUM BROOM	LOCAL SOURCE	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
C.2	CONCRETE	STANDARD	ROCK SALT 1# 4	LOCAL SOURCE	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
C.3	CONCRETE FORMLINER FITZGERALD FORMLINERS 16925-WEATHERED PLANK INSTALL PATTERN VERTICALLY, REFERENCE EXAMPLE IMAGE	N/A	N/A	COMPANY: FITZGERALD FORMLINERS CONTACT: SCOTT SCHNITTA PHONE: (512) 733-7760	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS

DRAINS

KEY	DESCRIPTION /MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
D.1	NDS 1200 SERIES CATCH BASIN WITH 1290 ATRIUM GRATE	BLACK	N/A	COMPANY: NDS, INC. PHONE: 1-800-726-1994	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
D.2	NDS 4" EXT FLOW PERFORATED DRAIN PIPE	BLACK	N/A	COMPANY: NDS, INC. PHONE: 1-800-726-1994	- REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS

MISCELLANEOUS

KEY	DESCRIPTION /MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
M.1	KIDDIE KUSHION MULCH AT PLAY AREAS CHIPPED PINE	NATURAL/YELLOW	SOFT	COMPANY: TEXAS SOIL AND STONE PHONE: (210) 497-1777	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS.
M.2	NATURAL WOOD FIBER AT DOG PARK DOUBLE GROUND CEDAR MULCH	NATURAL	DOUBLE GROUND	COMPANY: TEXAS SOIL AND STONE PHONE: (210) 497-1777	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
M.3	EPIC PLASTICS BENDA BOARD EDGING 2"X4" #100059389	TEAK BROWN	STANDARD	COMPANY: SITE ONE LANDSCAPE SUPPLY PHONE: (210) 545-2266	- REFERENCE TECHNICAL SPECIFICATIONS FOR PRODUCT DATA AND ALL SUBMITTAL REQUIREMENTS
M.4	TURFSTONE GRASS PAVERS RUNNING BOND 15 3/4 X 23 5/8 X3 1/8	STANDARD	GRAY	COMPANY: BELGARD PHONE: (877) 235-4273	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS REQUIREMENTS.
M.5	ARTIFICIAL PLAYGROUND GRASS FOREVER LAWN "ULTRA" 1 3/8" BLADE HEIGHT	OLIVE GREEN, TURF GREEN/TAN BLEND	ALPHA SAN PROTECTION, XSTATIC TECHNOLOGY	CONTACT: MIKE HARKRIDER COMPANY: FOREVERLAWN PHONE: (512) 310-7320	-REFER TO TECHNICAL SPECIFICATIONS FOR SAMPLE AND/OR SUBMITTAL REQUIREMENTS.
M.6	SHERWIN WILLIAMS ACRYLIC LATEX WATER BASED	DOVER WHITE	DILUTED TO ACCENT EXISTING BRICK	LOCAL SOURCE	-REFER TO TECHNICAL SPECIFICATIONS FOR SAMPLE AND/OR SUBMITTAL REQUIREMENTS. -CONTRACTOR TO SUBMIT MOCK-UP TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PURCHASE OR INSTALLATION.

STEEL

KEY	DESCRIPTION /MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
ST.1	DESIGNMASTER CONTEMPO FENCE PANEL 72"H X 98.4"W FW63756	GREY 7037	POWDERCOATED STEEL	COMPANY: DESIGN MASTER CONTACT: JORGE GUERRA PHONE: (817) 888-1287	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
ST.2	DESIGNMASTER CONTEMPO FENCE POST 69.6" FW79069	GREY 7037	POWDERCOATED STEEL	COMPANY: DESIGN MASTER CONTACT: JORGE GUERRA PHONE: (817) 888-1287	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
ST.3	DESIGNMASTER CONTEMPO 64 5/8" PEDESTRIAN SWING GATE PRODUCT 868	GREY 7037	STANDARD	COMPANY: DESIGN MASTER CONTACT: JORGE GUERRA PHONE: (817) 888-1287	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
ST.4	STRING LIGHT POST 2"X2" SQUARE STEEL POLE	PRIMED AND PAINTED	BLACK	LOCAL SOURCE	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.

STONE

KEY	DESCRIPTION /MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
S.1	LEUDERS LIMESTONE BLOCKS a. SIZE: 1' TALL x 2' WIDE x 4' LONG b. SIZE: 2' TALL x 2' WIDE x 4' LONG	NATURAL	SAWN TOP AND BOTTOM, CHOPPED SIDES AND FRONT AND BACK	COMPANY: COBRA STONE PHONE: (512) 746-5600	CONTRACTOR TO SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PURCHASE OR INSTALLATION.
S.2	LARGE BOULDERS RECYCLED FROM ON SITE (16)	NATURAL	NATURAL	ON SITE	CONTRACTOR TO SUBMIT MOCK-UP TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PURCHASE OR INSTALLATION.
S.3	CRUSHED WASHED LIMESTONE ROUGH EDGE, 3/4" MAX	WHITE/CREAM	COMPACTED WITH BINDING AGENT	COMPANY: TEXAS SOIL AND STONE PHONE: (210) 497-1777	CONTRACTOR TO SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PURCHASE OR INSTALLATION.

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SARA ELAINE KLEINMAN
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general notes and materials schedule

sheet
LC 1.01

P:\a18096 - dignowity-lockwood\03 development\04 contract documents\04 CAD\02 sheets\01-LC\A18096- LC1-00.dwg

LIGHTING

KEY	DESCRIPTION /MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
L.1	LED POLE TOP LUMINAIRES BEGA 99 402 K3 12'	BLACK MATTE	ALUMINUM	CONTACT: MARK HERZER COMPANY: BEGA PHONE: (805) 684-0533	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
L.2	LED BOLLARDS BEGA 77 221	BLACK MATTE	ALUMINUM	CONTACT: MARK HERZER COMPANY: BEGA PHONE: (805) 684-0533	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
L.3	STRING LIGHTS TIVOLI LITESPHERE WITH CATENARY CABLE HANGERS 24' O.C., VERY HIGH OUTPUT, 2700K, 12V DC WATTAGE	CLEAR GLOBES, BLACK WIRE	BLACK	CONTACT: MARK HERZER COMPANY: BEGA PHONE: (805) 684-0533	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS

SITE FURNISHINGS

KEY	DESCRIPTION /MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
SF.1	TRASH RECEPTACLE VESTRE, CITY LITTER BIN 247-004 CONCRETE BASE	RAL 6017 MAY GREEN	900 POWDER COATED STEEL, KEBONY	COMPANY:VESTRE PHONE:+1 202 634 9658	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.2	RECYCLING RECEPTACLE VESTRE, CITY RECYCLE BIN 270 180L	RAL 6026 OPAL GREEN	900 POWDER COATED STEEL, KEBONY	COMPANY:VESTRE PHONE:+1 202 634 9658	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.3	LONG TABLE VESTRE, APRIL HC-TABLE FOR EMBEDDING 739C	RAL 6034 PASTEL TURQUOISE	900 POWDER COATED STEEL, KEBONY	COMPANY:VESTRE PHONE:+1 202 634 9658	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.4	ROUND TABLE VESTRE, APRIL TABLE FOR EMBEDDING 730C	RAL 1000 GREEN BEIGE	900 POWDER COATED STEEL, KEBONY	COMPANY:VESTRE PHONE:+1 202 634 9658	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.5	LONG TABLE BENCHES VESTRE, APRIL BENCH WITH ARMRESTS FOR EMBEDDING 714C	RAL 6034 PASTEL TURQUOISE	900 POWDER COATED STEEL, KEBONY	COMPANY:VESTRE PHONE:+1 202 634 9658	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.6	ROUND TABLE CHAIRS VESTRE, APRIL CHAIR FOR EMBEDDING 74C	RAL 1000 GREEN BEIGE	900 POWDER COATED STEEL, KEBONY	COMPANY:VESTRE PHONE:+1 202 634 9658	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.7	DOG WASTE STATION PARK-N-POOL DOGIPOT HEADER PAK PET STATION- LEASHED	STANDARD GREEN	ALUMINUM	COMPANY:PARK-N-POOL PHONE: (540) 463-6510	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.8	OUTDOOR DRINKING FOUNTAIN MOST DEPENDABLE FOUNTAINS 440 SMFA WITH PET FOUNTAIN	CHROME	POLYESTER POWDER COAT	COMPANY:MOST DEPENDABLE FOUNTAINS PHONE: (901) 867-0039	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.9	PET FOUNTAIN MOST DEPENDABLE FOUNTAINS 370 SMMS	CHROME	POLYESTER POWDER COAT	COMPANY:MOST DEPENDABLE FOUNTAINS PHONE: (901) 867-0039	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.10	BICYCLE RACK VESTRE, BOY 388 EMBEDDED	SILVER	900 POWDER COATED STEEL, KEBONY	COMPANY:VESTRE PHONE:+1 202 634 9658	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.11	BENCH VESTRE, FOLK BENCH FOR NEDSTOP 4914C	RAL 6026 DARK BLUE	900 POWDER COATED STEEL, KEBONY	COMPANY:VESTRE PHONE:+1 202 634 9658	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.12	CUSTOM PLAY TOWER RICHTER SPIELGERATE SPECIAL TIMBER TOWER WITH INTERNAL LADDER 30 FT. HT. SI1.10000	LARCH	REFERENCE MANUFACTURER	COMPANY: APE STUDIO CONTACT: FRANCINE KATZ PHONE: (212) 213 6636	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
SF.13	TOWER SNAIL RUN SLIDE 3.68050 -DOUBLE SIDED GAPLESS HANDRAIL	SILVER	REFERENCE MANUFACTURER	COMPANY: APE STUDIO CONTACT: FRANCINE KATZ PHONE: (212) 213 6636	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
SF.14	ADA TOWER SLIDE 3.63420 -GROUND ANCHOR ATTACHMENT HEIGHT 2.00M	SILVER	REFERENCE MANUFACTURER	COMPANY: APE STUDIO CONTACT: FRANCINE KATZ PHONE: (212) 213 6636	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
SF.15	CUSTOM CLIMBING WALL	ROBINIA WOOD	REFERENCE MANUFACTURER	COMPANY: APE STUDIO CONTACT: FRANCINE KATZ PHONE: (212) 213 6636	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
SF.16	PLAYGROUND 2-BOLT CLIMBING GRIPS - LIMESTONE HOLDS - HEDRON HOLDS	ASSORTED COLORS	CAST URETHANE, STAINLESS STEEL HARDWARE	COMPANY: ATOMIK CLIMBING HOLDS PHONE: (801) 404-0280	INSTALL PER MANUFACTURER'S SPECIFICATIONS.
SF.17	WOODEN SWINGS NR0912 RICHTER SPIELGERATE a. HIGH TWIN SWING SPECIAL, CROSS BEAM OF STEEL, LARCH WITH STEEL FEET b. CRADLE NEST SPECIAL, LARCH WITH STEEL FEET c. TODDLER'S TWIN SWING, SPECIAL, LARCH WITH STEEL FEET, WITH 3-A FRAMES, 2 SEAT BELTS	LARCH	REFERENCE MANUFACTURER	COMPANY: APE STUDIO CONTACT: FRANCINE KATZ PHONE: (212) 213 6636	-REFER TO TECHNICAL SPECIFICATIONS FOR SAMPLE AND/OR SUBMITTAL REQUIREMENTS.
SF.18	CLIMBING STRUCTURE 08 RICHTER SPIELGERATE	LARCH	REFERENCE MANUFACTURER	COMPANY: APE STUDIO CONTACT: FRANCINE KATZ PHONE: (212) 213 6636	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
SF.19	DENDREPHONE SINGLE FIELD RICHTER SPIELGERATE 4 SOUND BOARDS AND STEEL FEET	LARCH, ALUMINUM	REFERENCE MANUFACTURER	COMPANY: APE STUDIO CONTACT: FRANCINE KATZ PHONE: (212) 213 6636	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.20	CUSTOM HILLSIDE ROPE CLIMBER	NATURAL WOOD BASE, ROPE NETTING	REFERENCE MANUFACTURER	COMPANY: APE STUDIO CONTACT: FRANCINE KATZ PHONE: (212) 213 6636	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.21	PUBLIC RESTROOM PORTLAND LOO	STAINLESS STEEL	GRAFFITI RESISTANT POWDER-COAT	COMPANY:PORTLAND LOO SALES CONTACT: EVAN MADDEN PHONE: (503) 226 3968	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.22	PLAYGROUND SHADE SAILS TENSOSHADE MANTA 3	1,16,19	SERGE FERRARI PVS MEMBRANE	COMPANY:TENSOSHADE PHONE: (210) 888-0128	REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS
SF.23	ICON SHELTER SYSTEMS INC AS10X16-12K-P3-30-110-30 STRAIGHT CANTILEVERED ARBOR WITH ANGLED COLUMNS, STRAIGHT STEEL SLATS, AND STEEL BENCH SWING	DUTCH BLUE FRAME, SILVER METALLIC ROOF PANELS	POWDERCOAT STEEL	CONTACT: SARA PARTRIDGE COMPANY: PLAY WELL GROUP PHONE: (512) 934-3742	QTY: 4 REFERENCE TECHNICAL SPECIFICATIONS FOR SUBMITTAL AND MOCK-UP REQUIREMENTS

WOOD

KEY	DESCRIPTION /MODEL NUMBER	COLOR	FINISH	CONTACT	REMARKS
W.1	SQUARE TIMBER STEPPER POSTS -SIZE: 9"x9" -SOUTHERN YELLOW PINE -SMOOTH EDGES, SANDED TOP	NATURAL	SMOOTH SANDED SIDES AND EDGES, WATER SEALED	CONTACT: AARON BISHOP COMPANY: AMERICAN POLE AND TIMBER PHONE: (800) 716-0636	REFERENCE PLAN FOR COLOR, SIZES, AND PATTERNS CONTRACTOR TO SUBMIT SAMPLES FOR LANDSCAPE ARCHITECT'S APPROVAL
W.2	SQUARE TIMBER STEPPER POSTS -SIZE: 9"x18" -SOUTHERN YELLOW PINE -SMOOTH EDGES, SANDED TOP	NATURAL	SMOOTH SANDED SIDES AND EDGES, WATER SEALED	CONTACT: AARON BISHOP COMPANY: AMERICAN POLE AND TIMBER PHONE: (800) 716-0636	REFERENCE PLAN FOR COLOR, SIZES, AND PATTERNS CONTRACTOR TO SUBMIT SAMPLES FOR LANDSCAPE ARCHITECT'S APPROVAL
W.3	SQUARE TIMBER STEPPER POSTS -SIZE: 18"x18" -SOUTHERN YELLOW PINE -SMOOTH EDGES, SANDED TOP	NATURAL	SMOOTH SANDED SIDES AND EDGES, WATER SEALED	CONTACT: AARON BISHOP COMPANY: AMERICAN POLE AND TIMBER PHONE: (800) 716-0636	REFERENCE PLAN FOR COLOR, SIZES, AND PATTERNS CONTRACTOR TO SUBMIT SAMPLES FOR LANDSCAPE ARCHITECT'S APPROVAL
W.3	BOARDWALK TREX COMPOSITE DECKING AND RAILING	ISLAND MIST	TRANSCEND SERIES GRAIN PATTERN LAID UP	COMPANY: TIMBERTOWN CONTACT: STEVE ANTHONY PHONE: (512) 528-8112	REFERENCE PLAN FOR COLOR, SIZES, AND PATTERNS CONTRACTOR TO SUBMIT SAMPLES FOR LANDSCAPE ARCHITECT'S APPROVAL

TBG

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REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEMENT
3109
STATE OF TEXAS

08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

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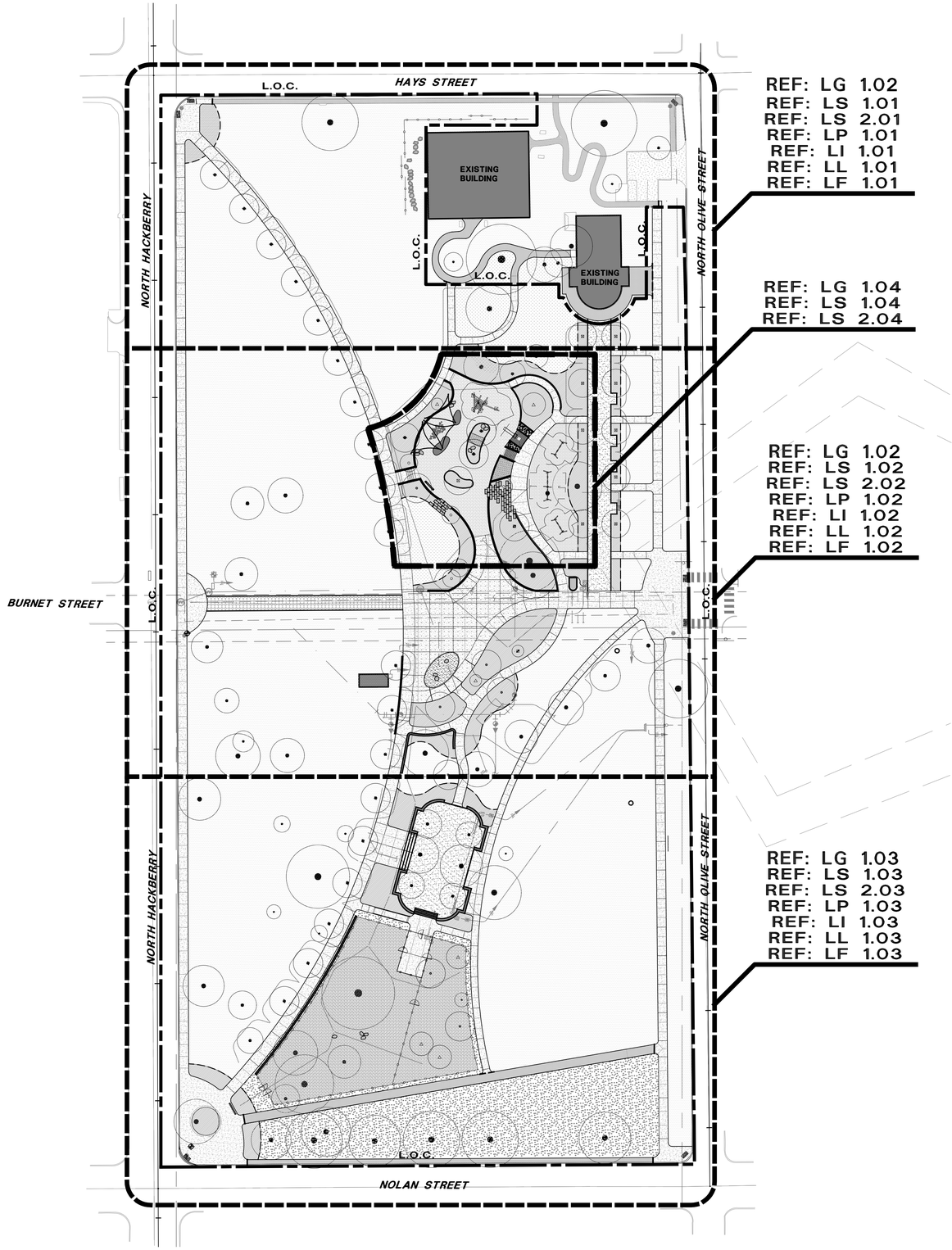
issue date
november 8, 2019

designed: MD, ID, AB, MF
drawn: MD, ID
reviewed: MF, EK

sheet title
materials schedule

sheet
LC 1.02

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REFERENCE PLAN

PLAN

0' 25' 50' 100'
SCALE: 1"=50' NORTH

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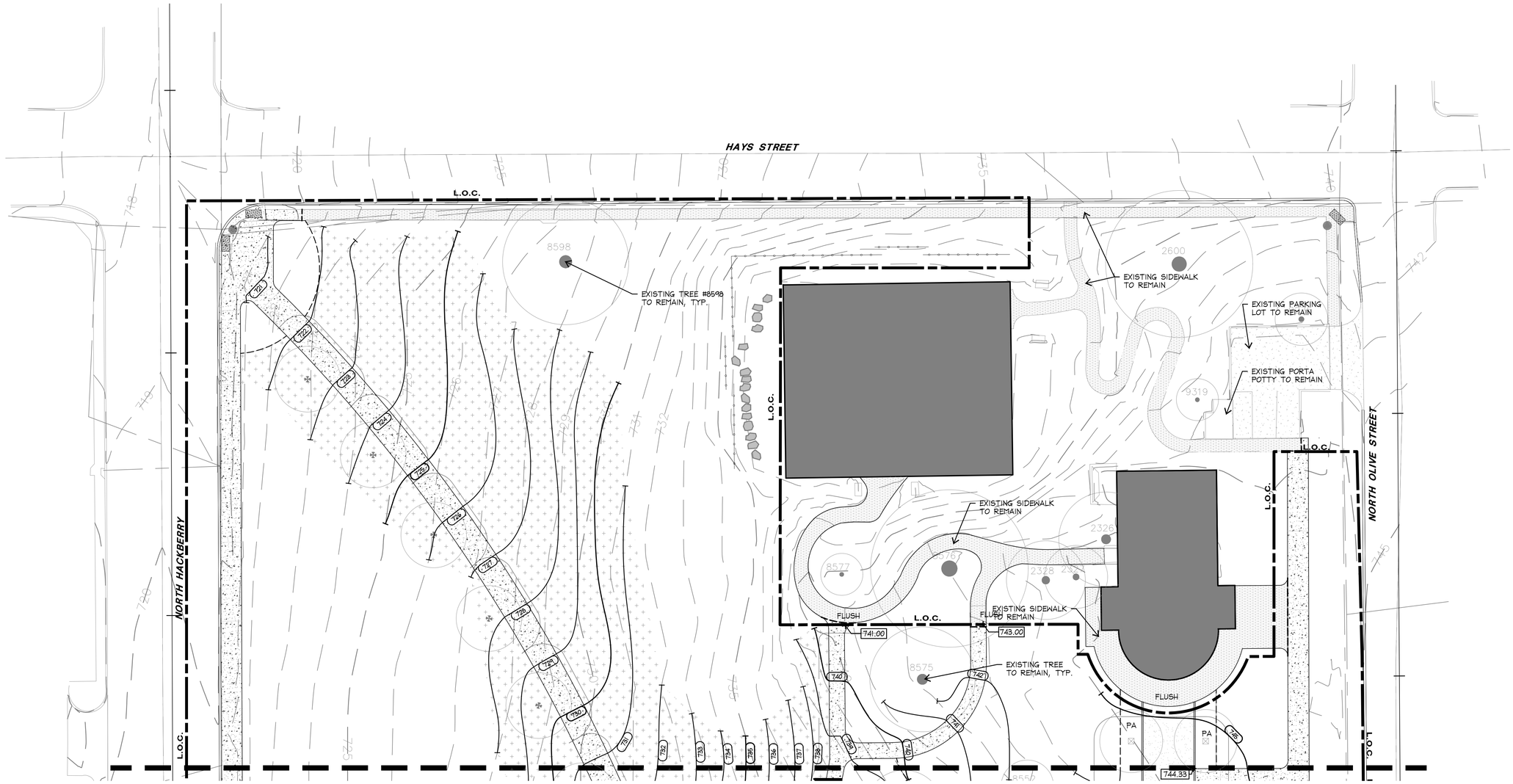
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designed: MD, ID, AB, MF
drawn: MD, ID
reviewed: MF, EK

sheet title
reference plan

sheet
LC 1.03



MATCHLINE: REF. 1/LG 1.02

GRADING PLAN

SCALE: 1"=20' NORTH

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REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEINERT
3109
STATE OF TEXAS

08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

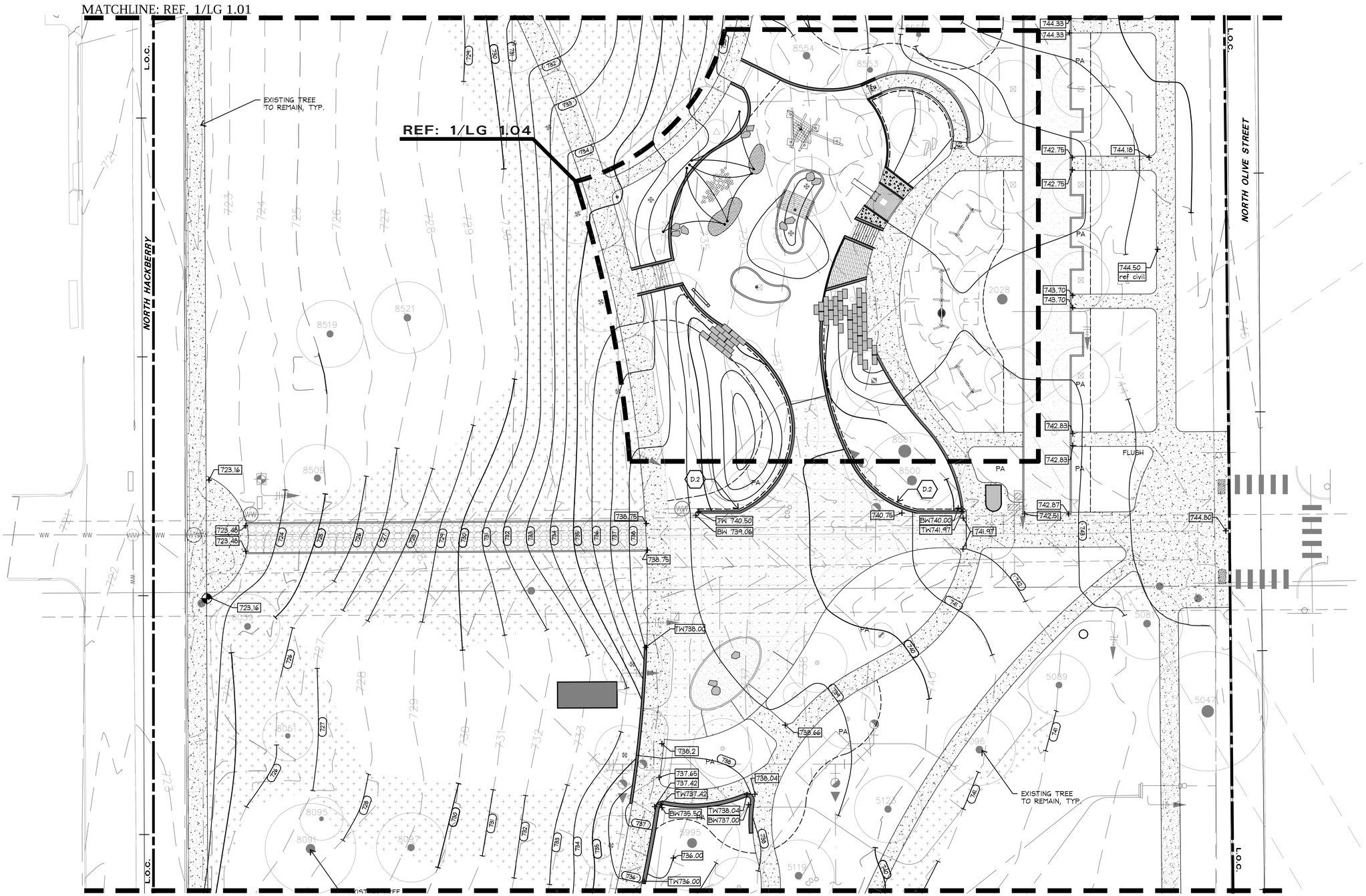
issue date
november 8, 2019

designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
grading plan

sheet
LG 1.01

P:\a18096 - dignowity-lockwood\03 development\04 contract documents\04 CAD\02 sheets\02-LG\A18096- LG1-01.dwg



GRADING

PLAN

0' 10' 20' 40'

SCALE: 1"=20' NORTH

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430 austin street
suite 200
san antonio, tx 78215

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tbgpartners.com

REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEIN
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STATE OF TEXAS

08/05/19

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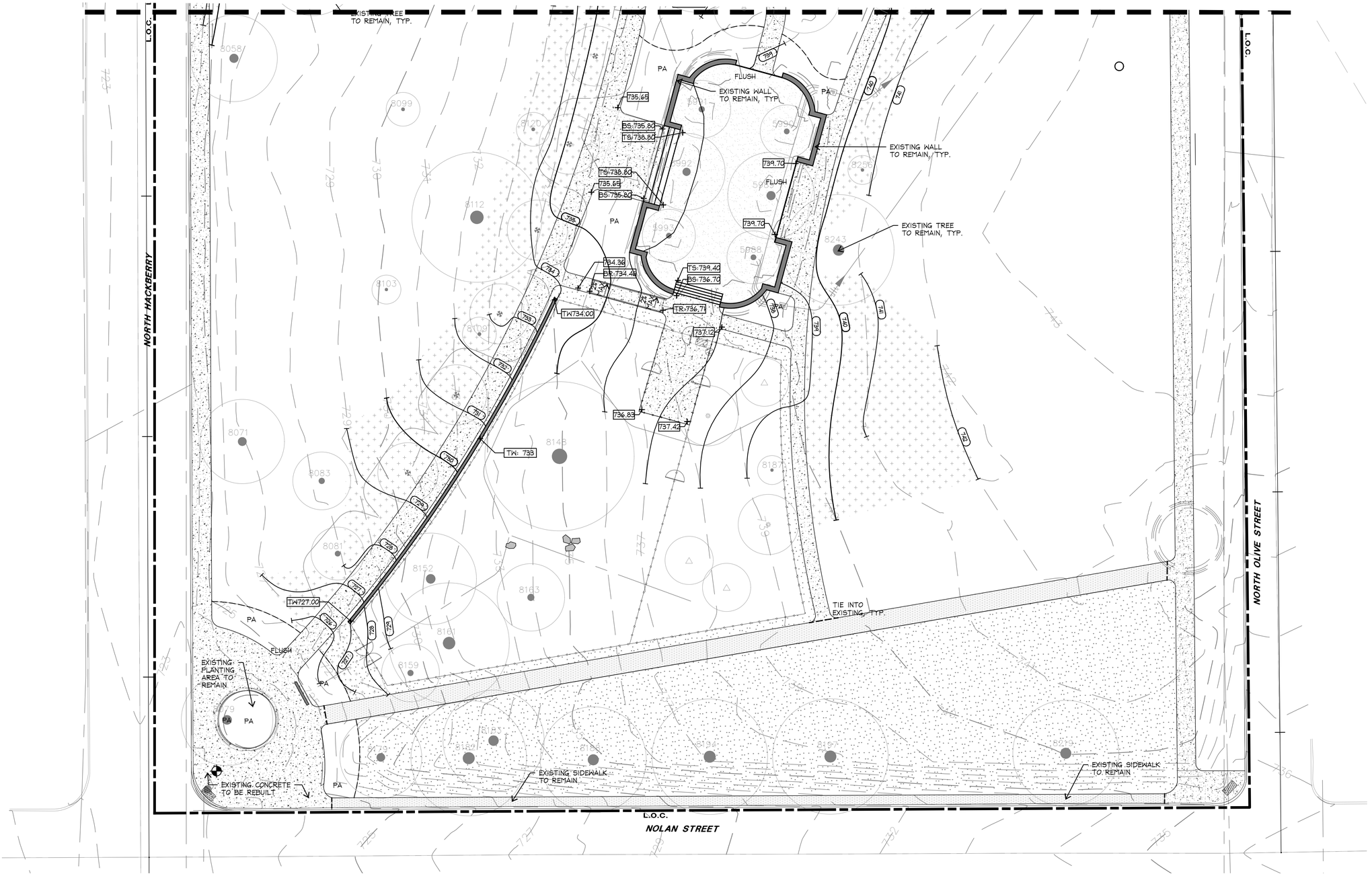
designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
grading plan

sheet
LG 1.02

P:\a18096 - dignowity-lockwood\03 development\04 contract documents\04 CAD\02 sheets\02-LG\A18096- LG1-01.dwg

MATCHLINE: REF. 1/LG 1.02



GRADING

PLAN

0' 10' 20' 40'
SCALE: 1"=20' NORTH

P:\a18096 - dignowity-lockwood\03 development\04 contract documents\04 CAD\02 sheets\02-LG\A18096- LG1-01.dwg

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REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEMENT
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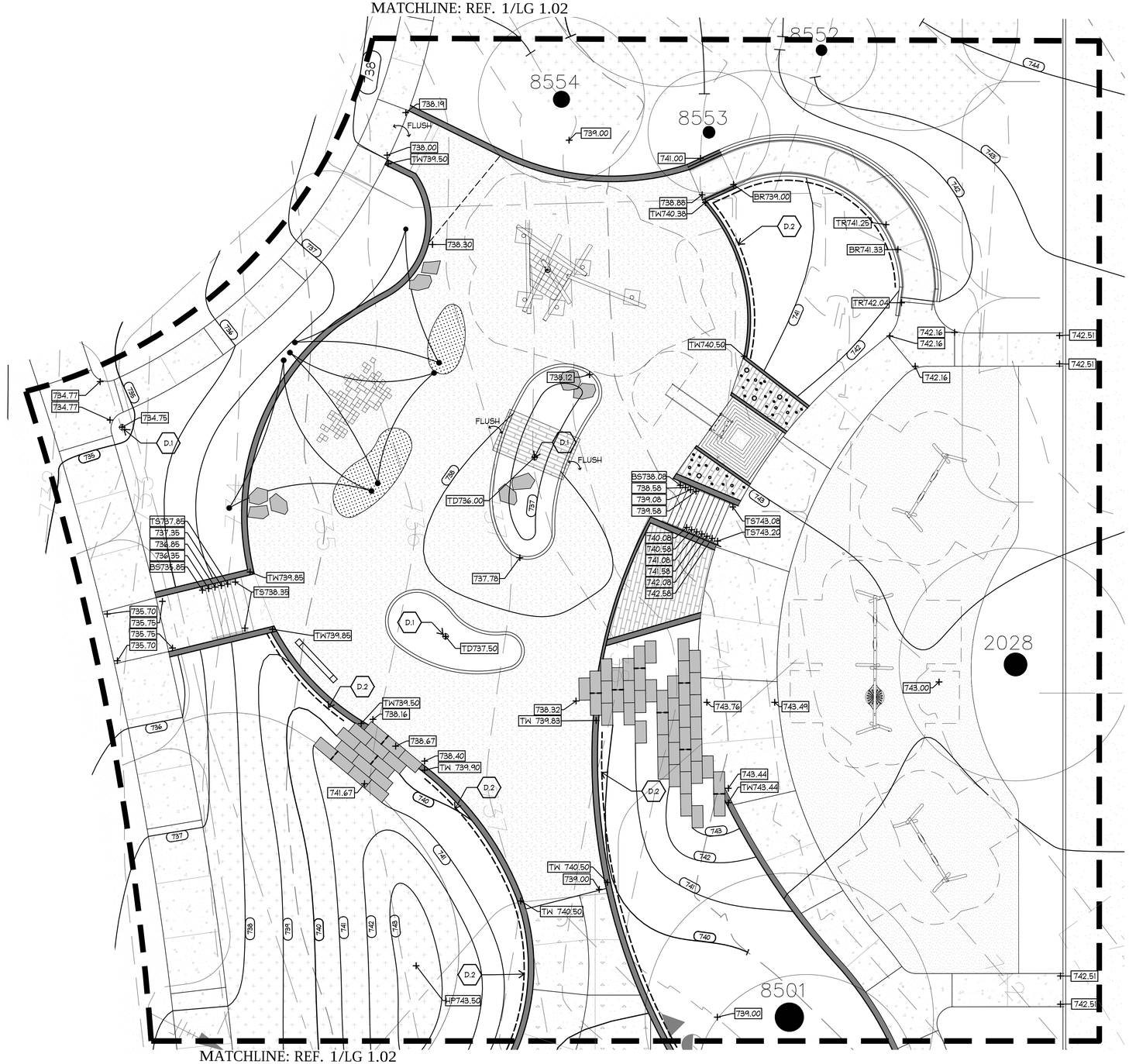
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november 8, 2019

designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
grading plan

sheet
LG 1.03

MATCHLINE: REF. 1/LG 1.02



MATCHLINE: REF. 1/LG 1.02

GRADING ENLARGEMENT PLAN

0' 5' 10' 20'
SCALE: 1"=10' NORTH

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REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE FLEMING
3109
STATE OF TEXAS

08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

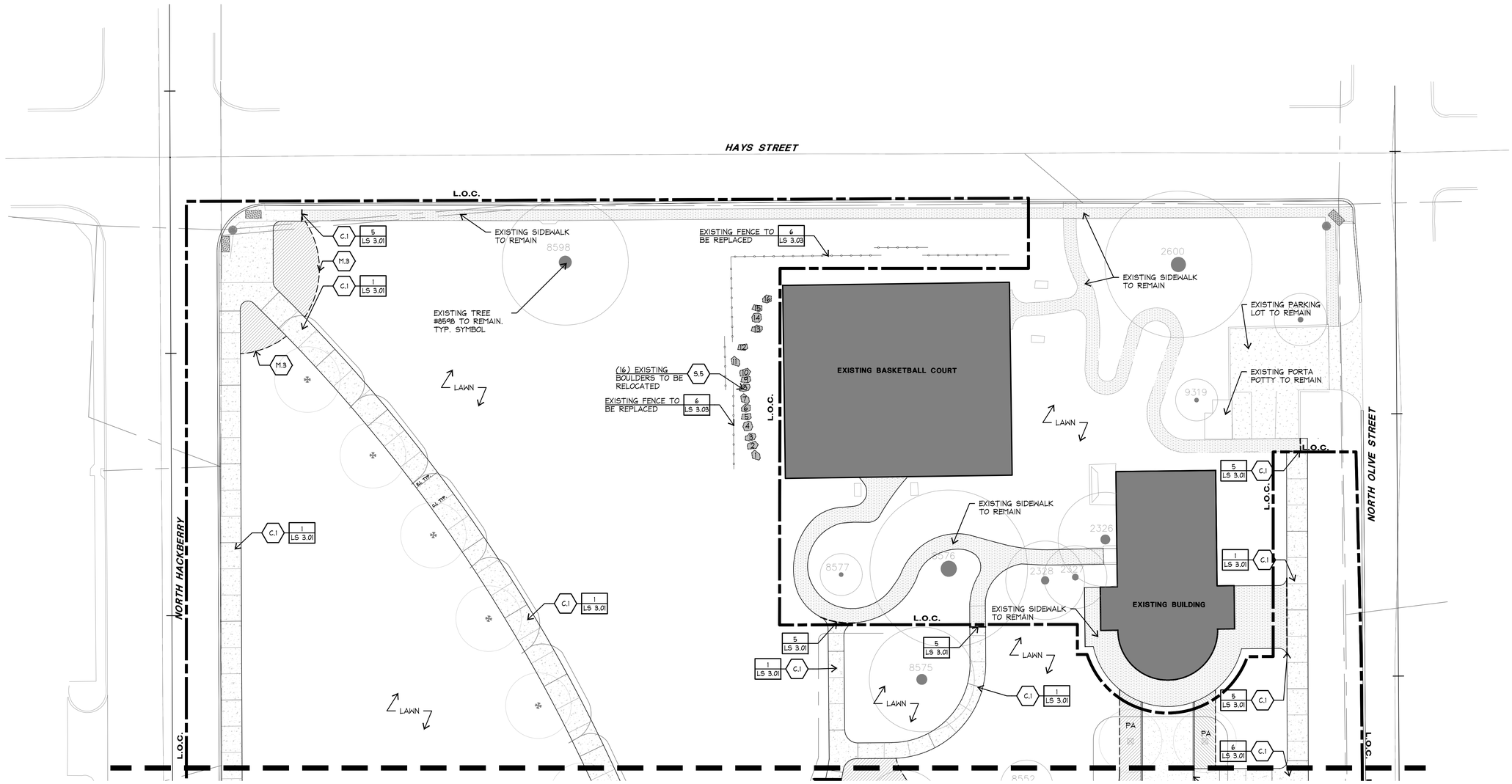
issue date
november 8, 2019

designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
grading plan enlargement

sheet
LG 1.04

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MATCHLINE: REF. 1/LS 1.02

SITE PLAN

0' 10' 20' 40'
SCALE: 1"=20' NORTH

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REGISTERED LANDSCAPE ARCHITECT
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STATE OF TEXAS

08/05/19

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City of San Antonio
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project number
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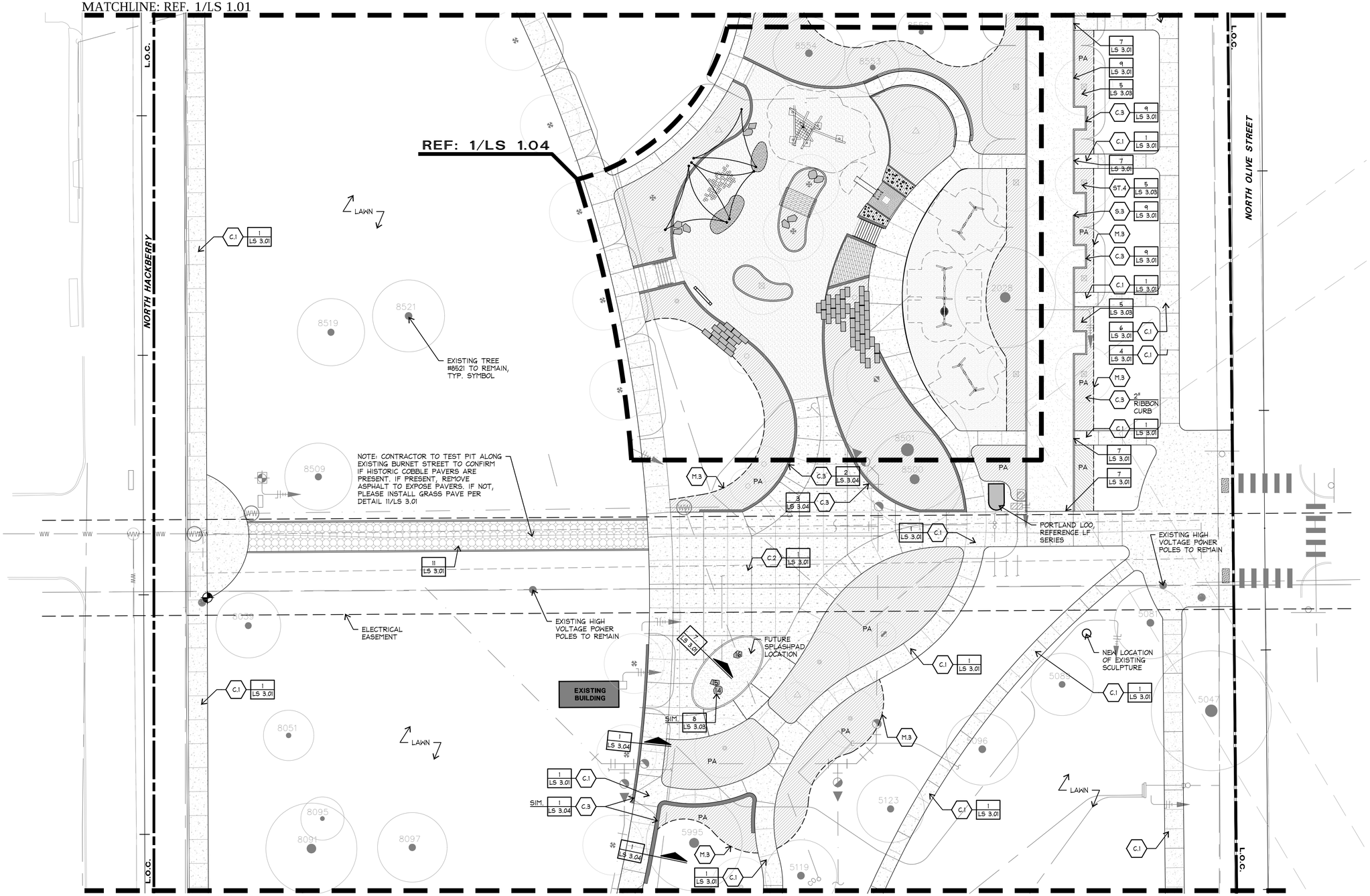
issue date
november 8, 2019

designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
site plan

sheet
LS 1.01

MATCHLINE: REF. 1/LS 1.01



MATCHLINE: REF. 1/LS 1.03

SITE
PLAN

0' 10' 20' 40'
SCALE: 1"=20' NORTH

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REGISTERED LANDSCAPE ARCHITECT
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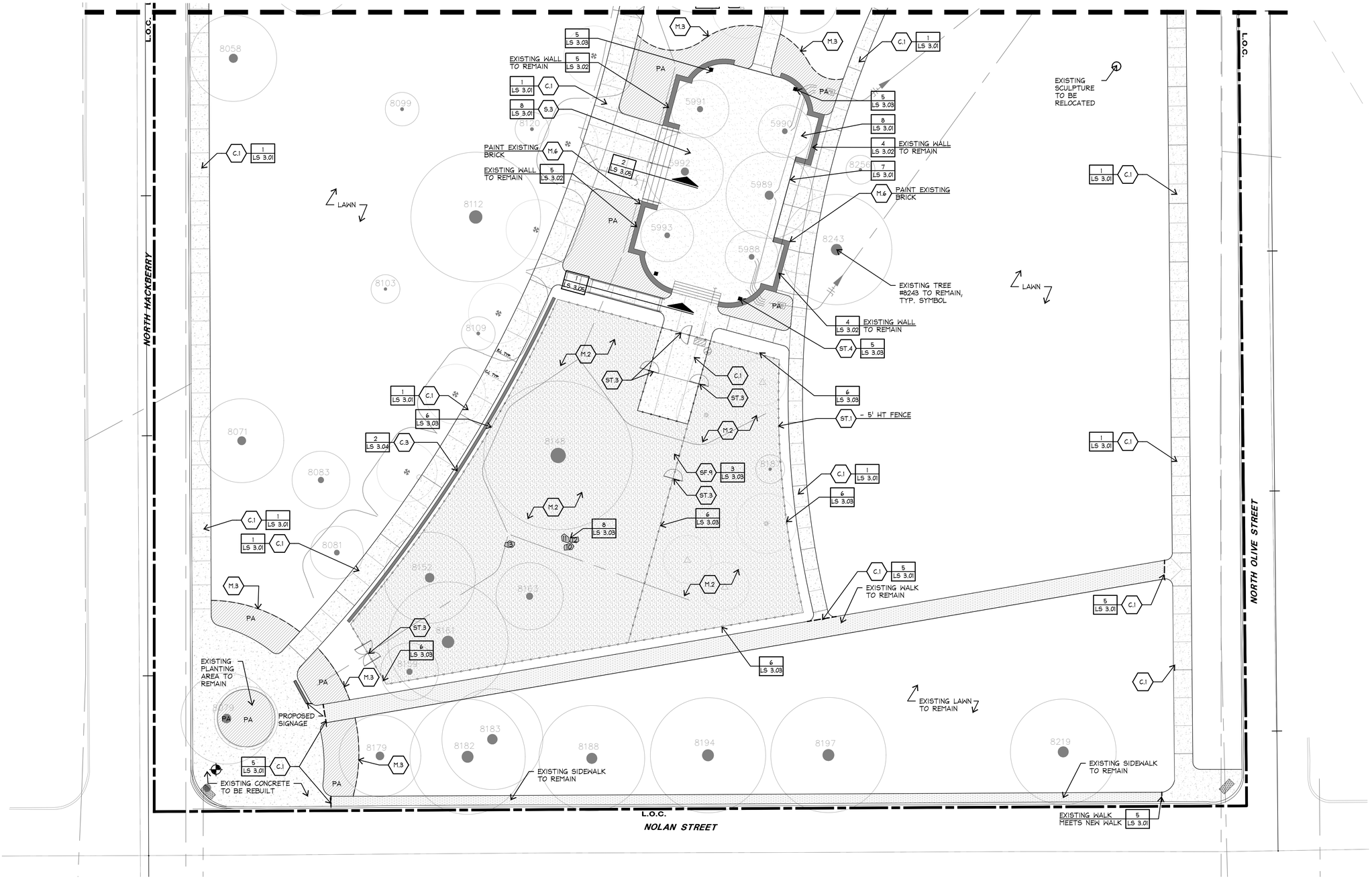
designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
site plan

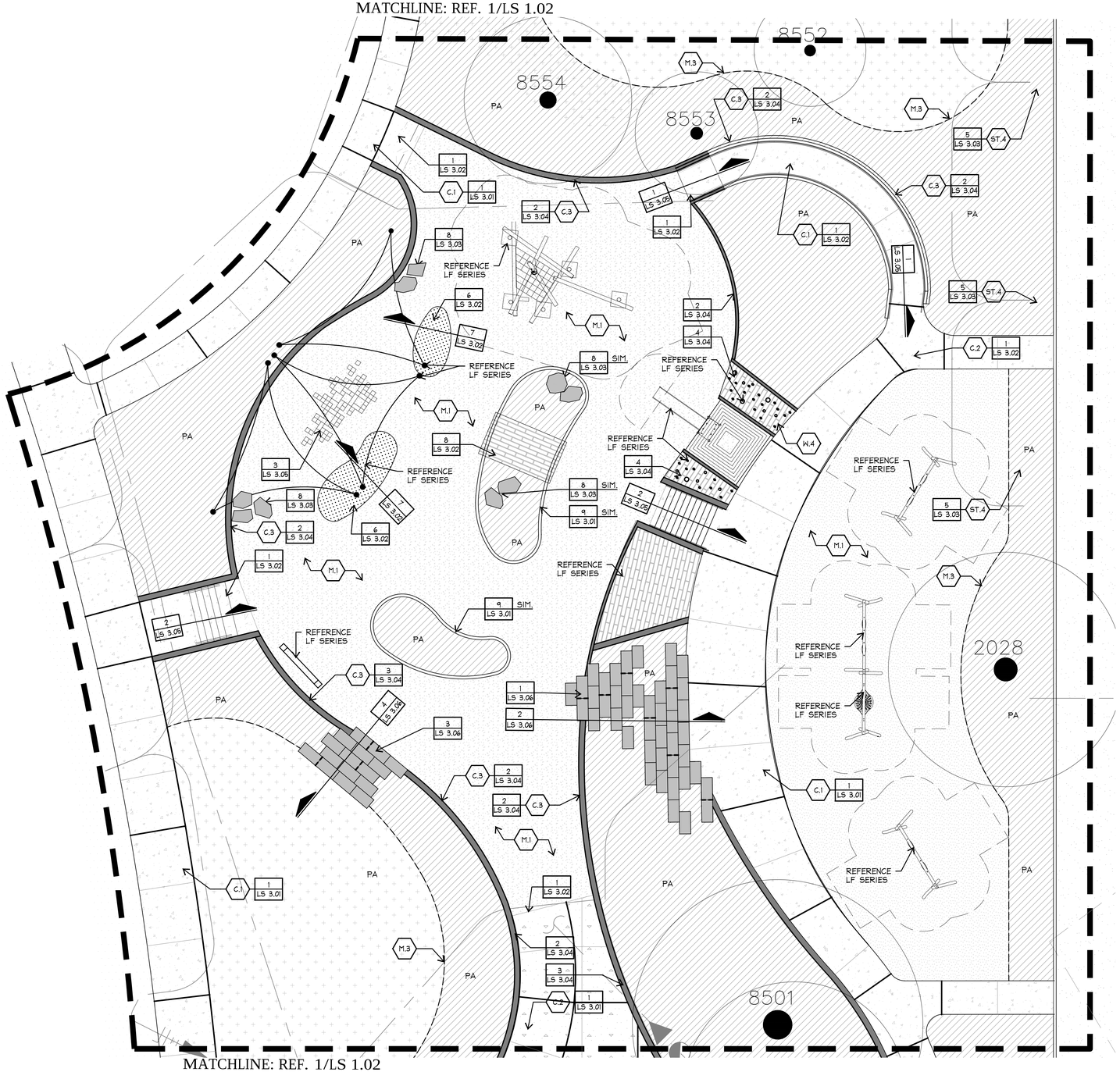
sheet
LS 1.02

P:\a18096 - dignowity-lockwood\03 development\04 contract documents\04 CAD\02 sheets\03-LS\A18096- LS1-01.dwg

MATCHLINE: REF. 1/LS 1.02


L.O.C.
NORTH HACKBERRY
NORTH OLIVE STREET
L.O.C.
L.O.C.
NOLAN STREET
LAWN
LAWN
EXISTING LAWN TO REMAIN
EXISTING SCULPTURE TO BE RELOCATED
EXISTING WALL TO REMAIN
PAINT EXISTING BRICK
EXISTING WALL TO REMAIN
EXISTING TREE #8243 TO REMAIN, TYP. SYMBOL
EXISTING WALL TO REMAIN
- 5' HT FENCE
EXISTING WALK TO REMAIN
EXISTING PLANTING AREA TO REMAIN
PROPOSED SIGNAGE
EXISTING CONCRETE TO BE REBUILT
EXISTING SIDEWALK TO REMAIN
EXISTING WALK MEETS NEW WALK
EXISTING SIDEWALK TO REMAIN
PA
8058
8099
8112
8103
8109
8071
8083
8081
8148
8152
8163
8161
8179
8182
8183
8188
8194
8197
8219
8243
5991
5990
5992
5989
5993
5988
8120
8286
8118
5 LS 3.03
5 LS 3.02
1 LS 3.01 C.1
8 LS 3.01 S.3
M.3
M.6
2 LS 3.05
1 LS 3.05
M.2
ST.3
C.1
6 LS 3.03
ST.1
SF.9 3 LS 3.03
8 LS 3.03
4 LS 3.02
ST.4
7 LS 3.01
1 LS 3.01 C.1
1 LS 3.01 C.1
6 LS 3.03
2 LS 3.04 C.3
1 LS 3.01 C.1
1 LS 3.01 C.1
C.1 5 LS 3.01
5 LS 3.01 C.1
5 LS 3.01 C.1
C.1
5 LS 3.01 C.1
4 LS 3.02
5 LS 3.03
5 LS 3.01
6 LS 3.03
M.3
ST.3
6 LS 3.03
M.3
PA
PA
PA

MATCHLINE: REF. 1/LS 1.02



MATCHLINE: REF. 1/LS 1.02

SITE ENLARGEMENT

PLAN

0' 5' 10' 20'
SCALE: 1"=10' NORTH

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REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEIN
3109
STATE OF TEXAS
08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

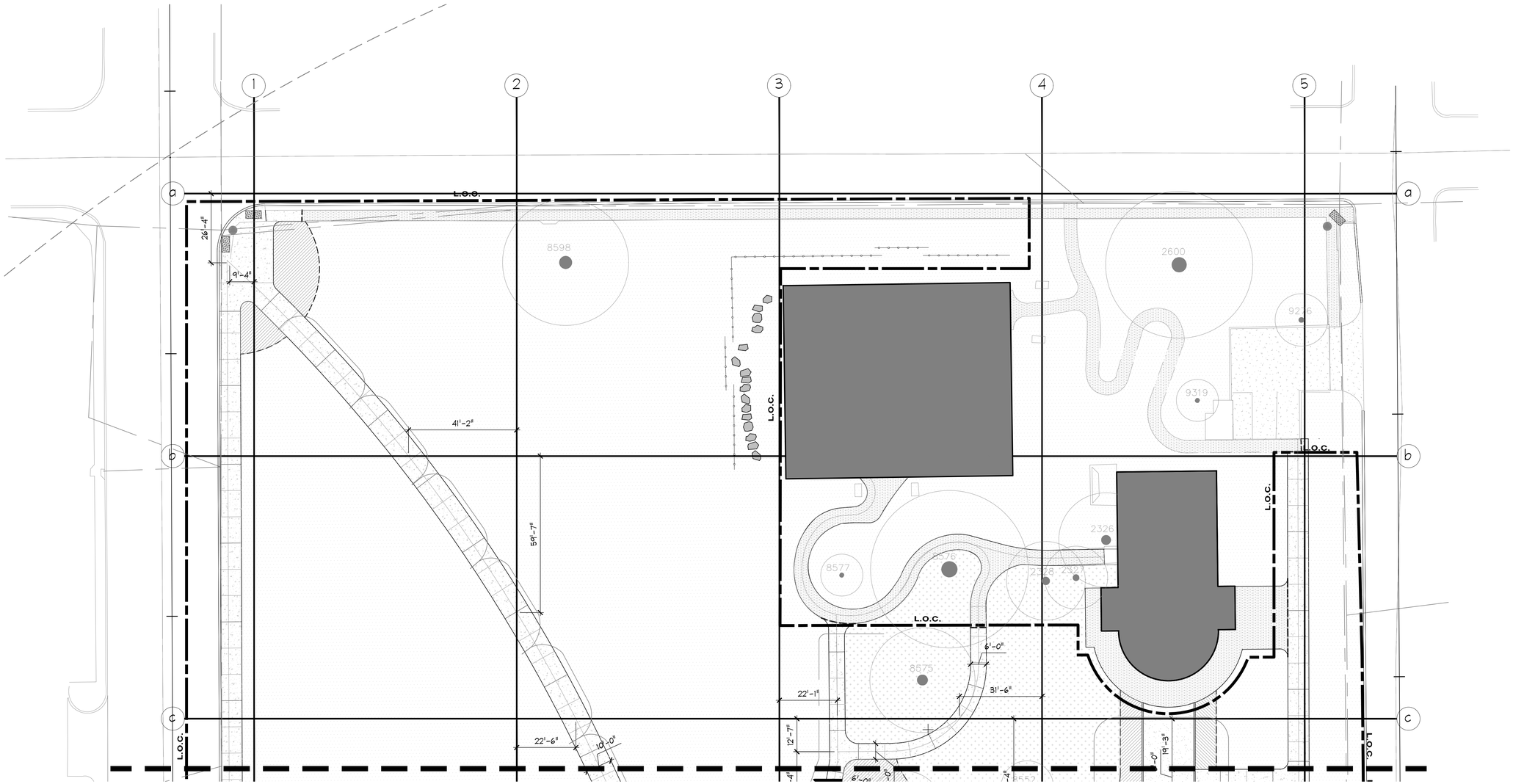
issue date
november 8, 2019

designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
site plan enlargement

sheet
LS 1.04

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MATCHLINE: REF. 1/LS 2.02

LAYOUT PLAN

0' 10' 20' 40'
SCALE: 1"=20' NORTH

P:\a18096 - dignowity-lockwood\03 development\04 contract documents\04 CAD\02 sheets\03-LS\A18096- LS2-01.dwg

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REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEMENT
3109
STATE OF TEXAS

08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

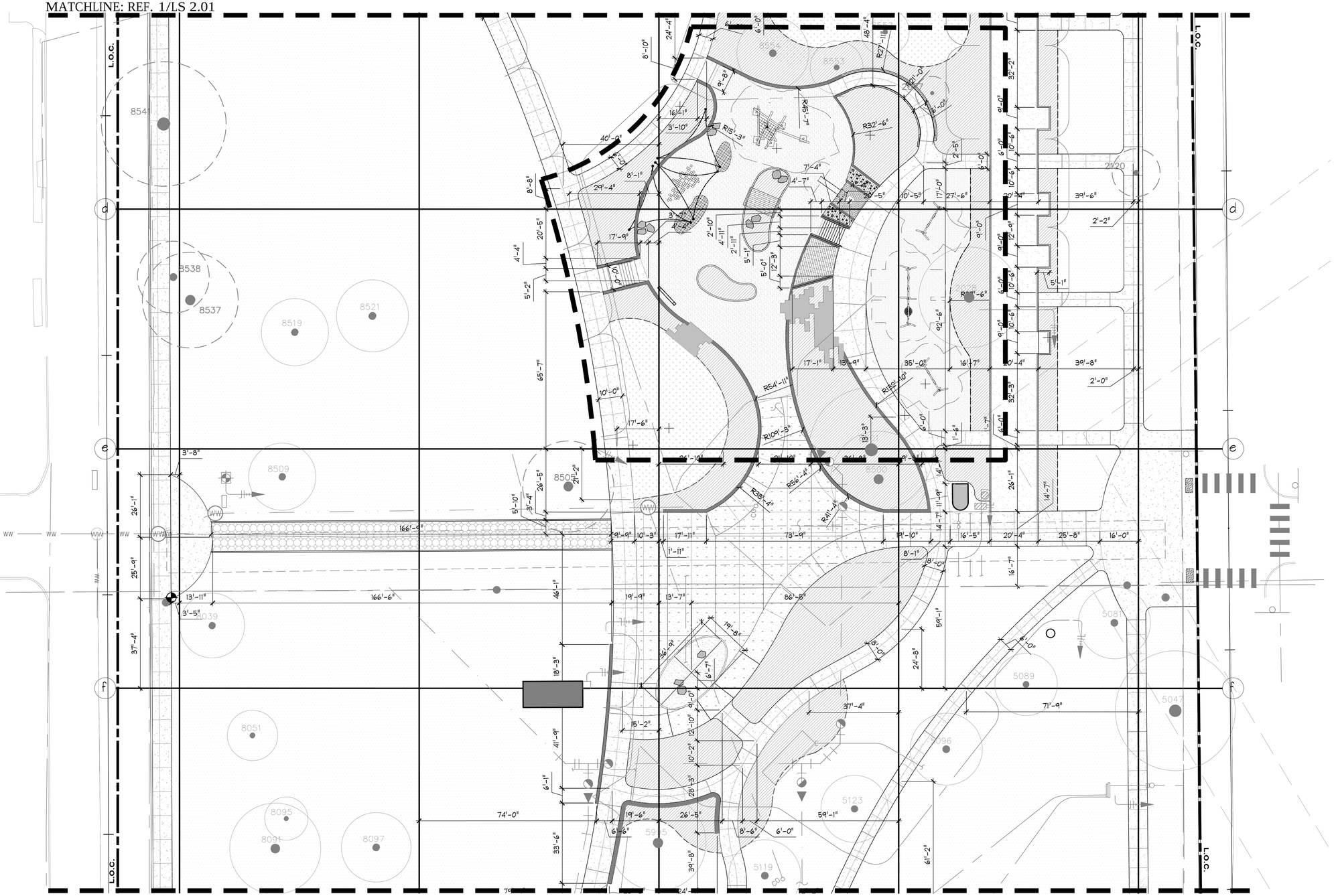
project number
A18096

issue date
november 8, 2019

designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
layout plan

sheet
LS 2.01


MATCHLINE: REF. 1/LS 2.01
MATCHLINE: REF. 1/LS 2.03
L.O.C.
L.O.C.
L.O.C.
L.O.C.
d
d
e
e
f
f
854
8538
8537
8521
8519
8509
8507
8505
8503
8501
8039
8051
8095
8091
8097
5089
5081
5047
5123
5119
5096
2120
WW
WW
WW

MATCHLINE: REF. 1/LS 2.02



LAYOUT

PLAN

0' 10' 20' 40'
SCALE: 1"=20' NORTH

P:\a18096 - dignowity-lockwood\03 development\04 contract documents\04 CAD\02 sheets\03-LS\A18096- LS2-01.dwg

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REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEIN
3109
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City of San Antonio
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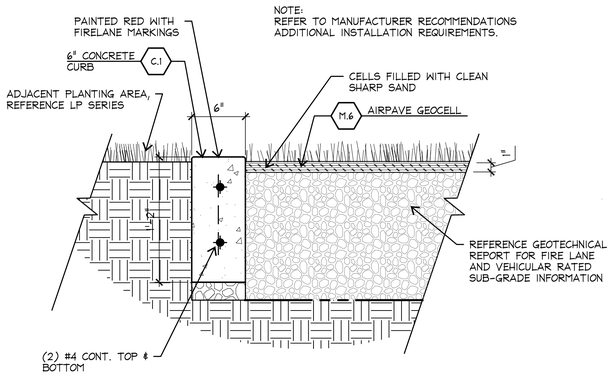
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issue date
november 8, 2019

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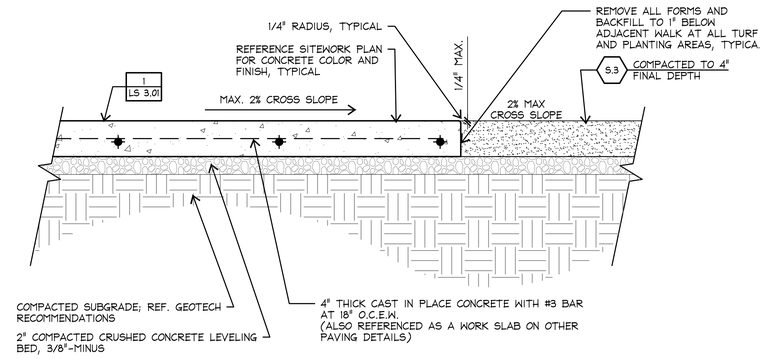
sheet title
layout plan

sheet
LS 2.03



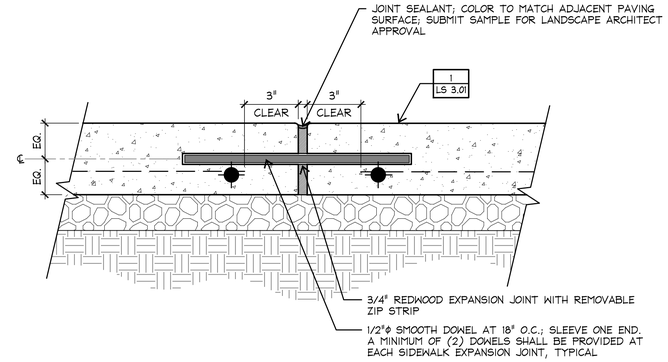
11 GRASSPAVE

SECTION — SCALE: 1-1/2"=1'-0"



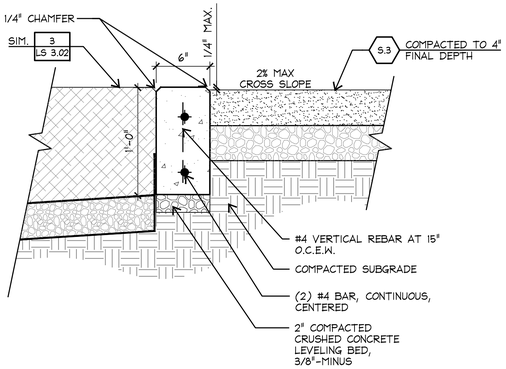
7 STONE PAVING AT CONCRETE

SECTION — SCALE: 1-1/2"=1'-0"



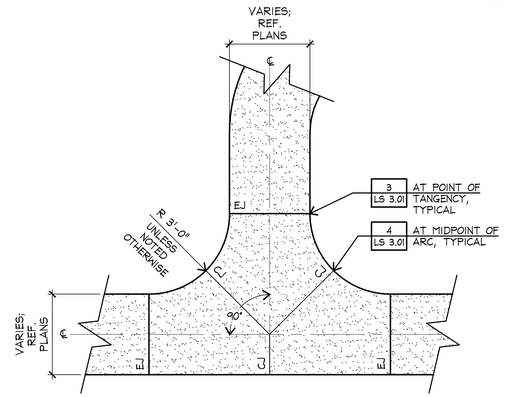
3 EXPANSION JOINT TYP.

SECTION — SCALE: 3"=1'-0"



10 CURB AT WOOD FIBAR MULCH AND STONE

SECTION — SCALE: 1-1/2"=1'-0"

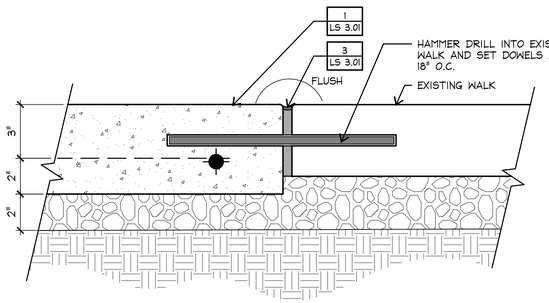


6 CONCRETE INTERSECTION

SECTION — SCALE: 3/8"=1'-0"

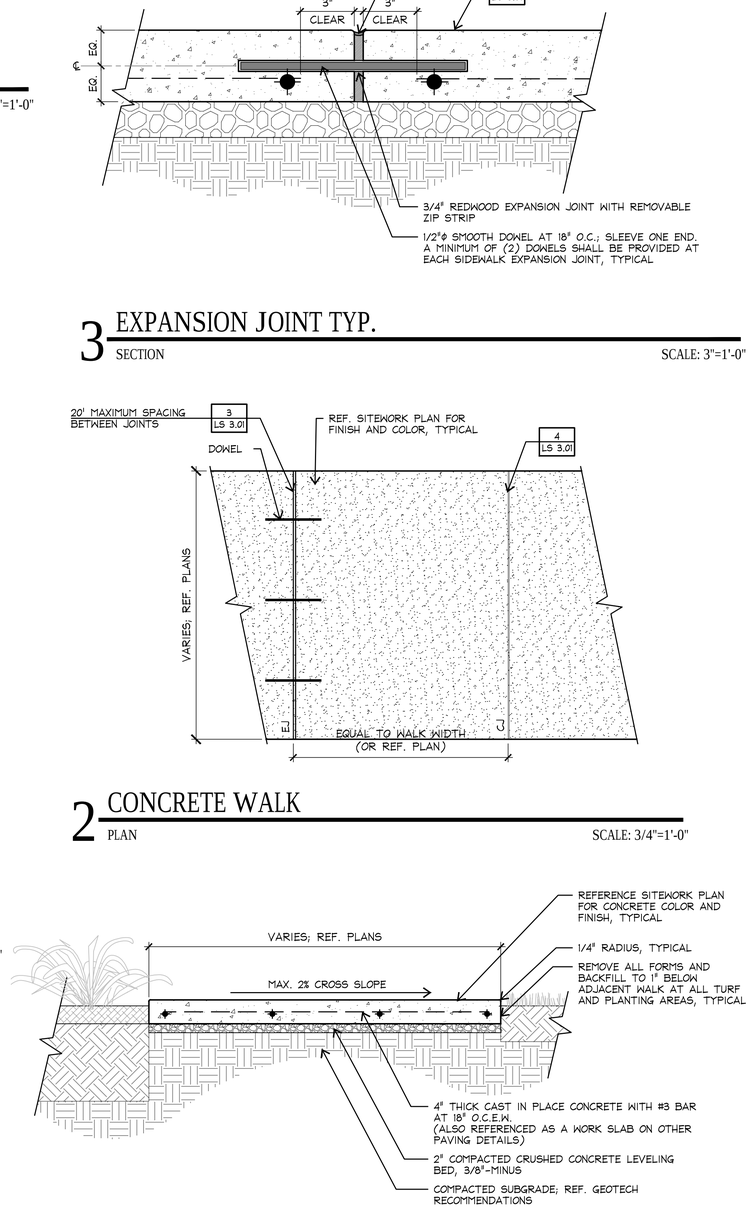
2 CONCRETE WALK

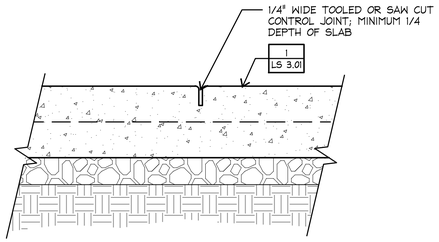
PLAN — SCALE: 3/4"=1'-0"



5 EXPANSION JOINT AT EXISTING WALK

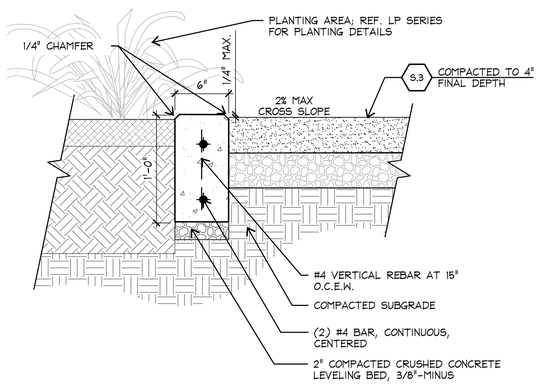
SECTION — SCALE: 3"=1'-0"





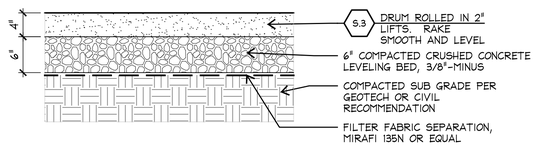
4 CONTROL JOINT TYP.

SECTION — SCALE: 3"=1'-0"



9 STONE PAVING AT PLANTING

SECTION — SCALE: 1-1/2"=1'-0"



8 STONE PAVING SURFACE

SECTION — SCALE: 1"=1'-0"

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430 austin street
suite 200
san antonio, tx 78215
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REGISTERED LANDSCAPE ARCHITECT — SARAH ELAINE ELLIOTT — 3109 — STATE OF TEXAS

08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

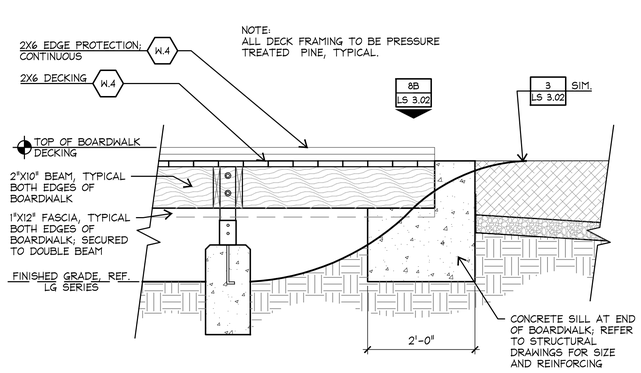
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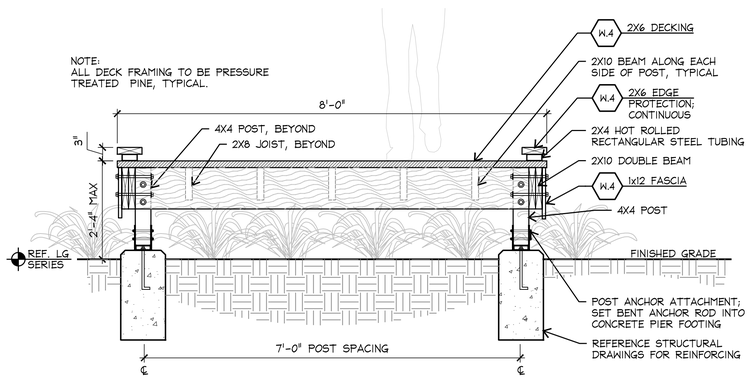
designed: XX
drawn: XX
reviewed: XX

sheet title
sitework details

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LS 3.01

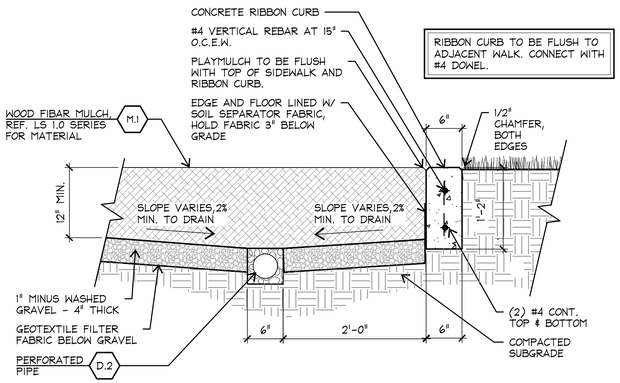
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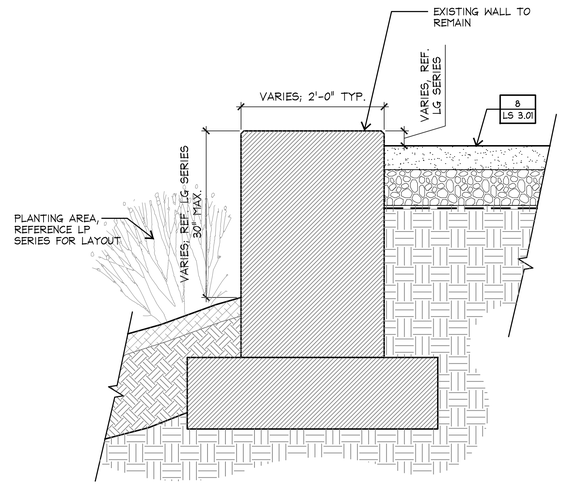
8 BRIDGE
SECTION

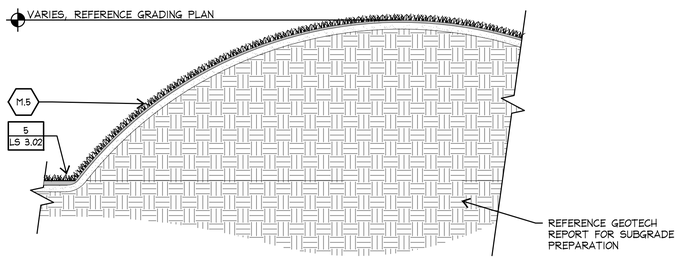
SCALE: 3/4"=1'-0"



3 RIBBON CURB AT WOOD FIBAR MULCH
SECTION

SCALE: 1"=1'-0"



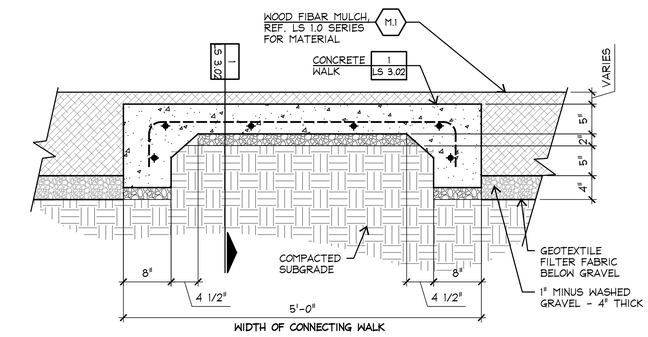


7 PLAY MOUND
SECTION

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

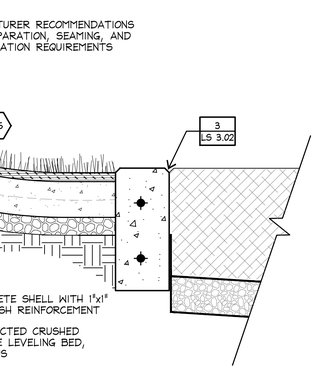
5 EXISTING WALL WEST
SECTION

SCALE: 1"=1'-0"



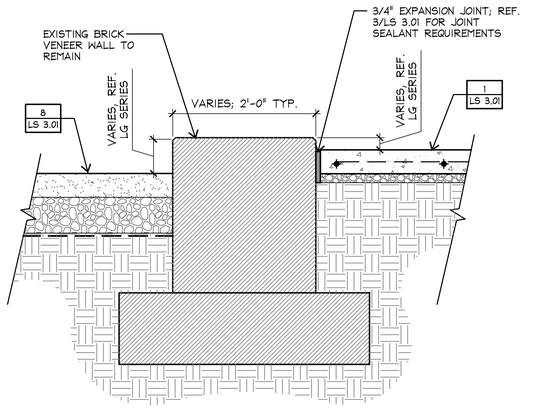
2 RAMP IN WOOD FIBAR MLUCH
SECTION

SCALE: 1"=1'-0"



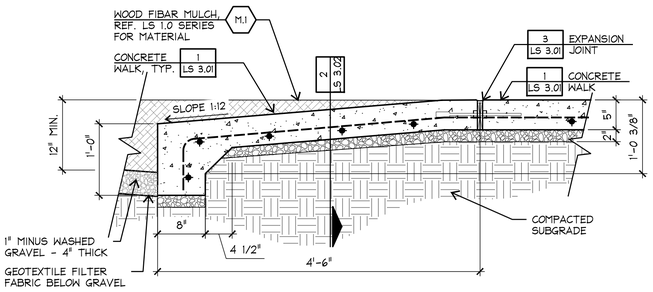
6 ARTIFICIAL TURF AT PLAY SURFACE
SECTION

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



4 EXISTING WALL EAST
SECTION

SCALE: 1"=1'-0"



1 RAMP AT WOOD FIBAR MULCH
SECTION

SCALE: 1"=1'-0"

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430 austin street
suite 200
san antonio, tx 78215

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tbgpartners.com

REGISTERED LANDSCAPE ARCHITECT
SHAWN ELAINE KLEINSCHMIDT
3109
STATE OF TEXAS

08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

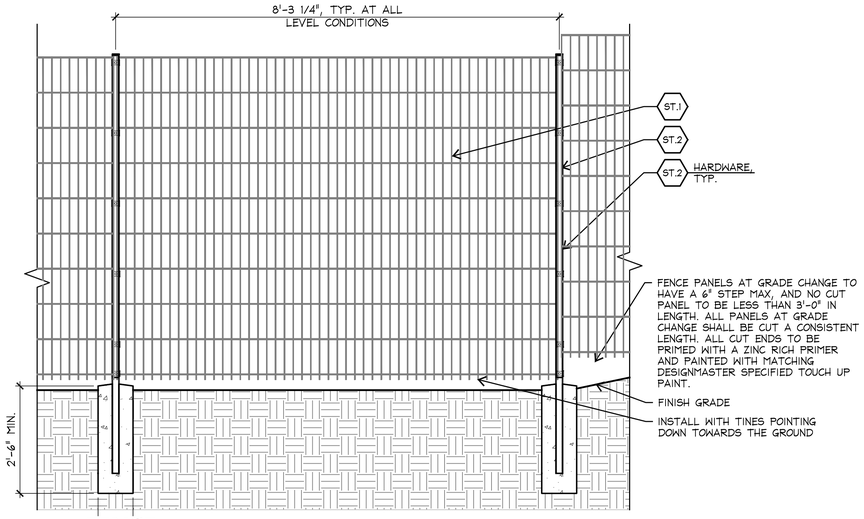
issue date
november 8, 2019

designed: XX
drawn: XX
reviewed: XX

sheet title
sitework details

sheet
LS 3.02

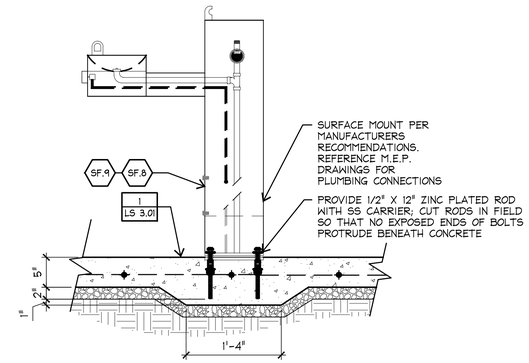
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6 FENCE

SECTION

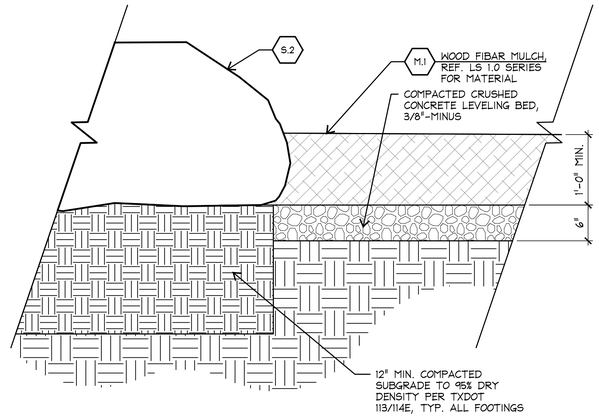
SCALE: 3/4"=1'-0"



3 WATER FOUNATIN

SECTION

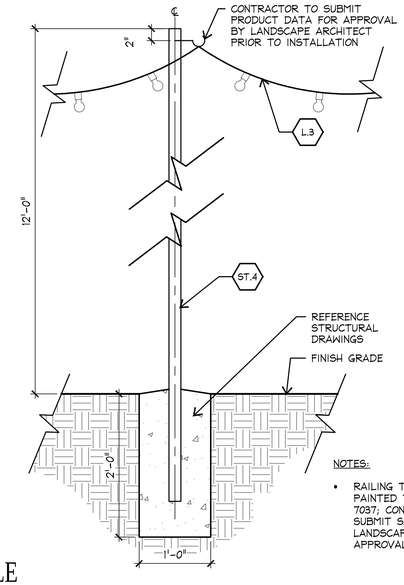
SCALE: 1"=1'-0"

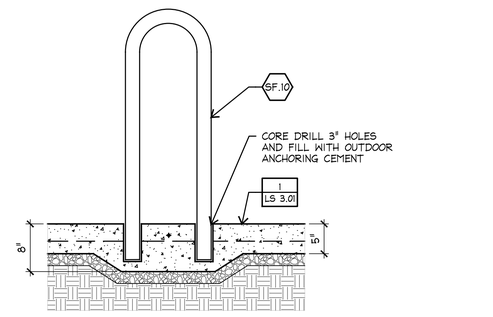


8 BOULDER AT WOOD FIBER MULCH

SECTION

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

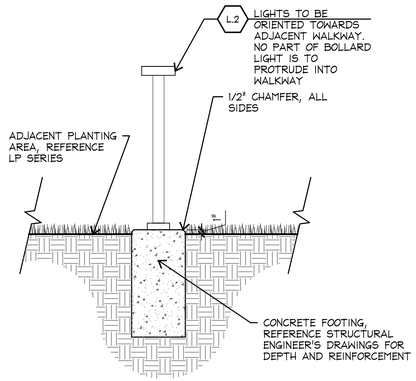




2 BIKE RACK

SECTION

SCALE: 1"=1'-0"



7 BOLLARD LIGHT FOOTING

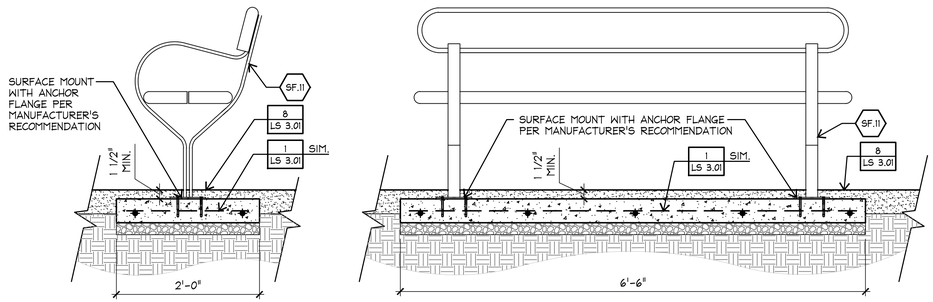
SECTION

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

5 STRING LIGHT POLE

SECTION

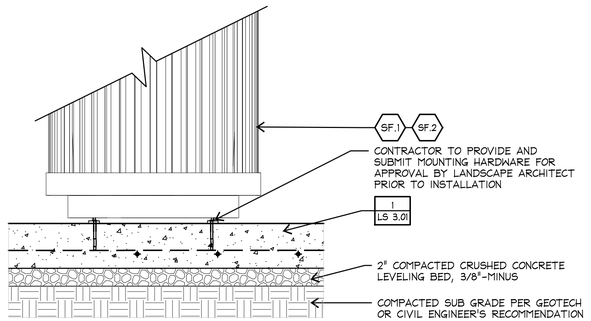
SCALE: 1"=1'-0"



4 CONCRETE BENCH FOOTING AT CRUSHED STONE

SECTION

SCALE: 1"=1'-0"



1 TRASH RECEPTACLE ON CONRETE PAD

SECTION

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

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suite 200
san antonio, tx 78215

[210] 366-9933
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REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEMENT
3109
STATE OF TEXAS

08/05/19

project
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City of San Antonio
San Antonio, Texas

project number
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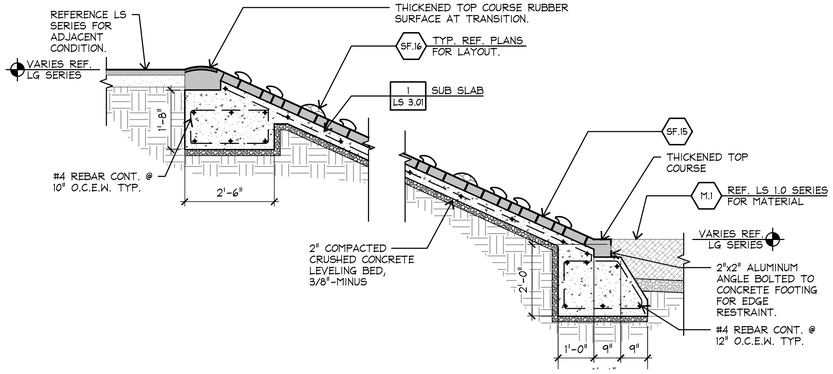
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november 8, 2019

designed: XX
drawn: XX
reviewed: XX

sheet title
sitework details

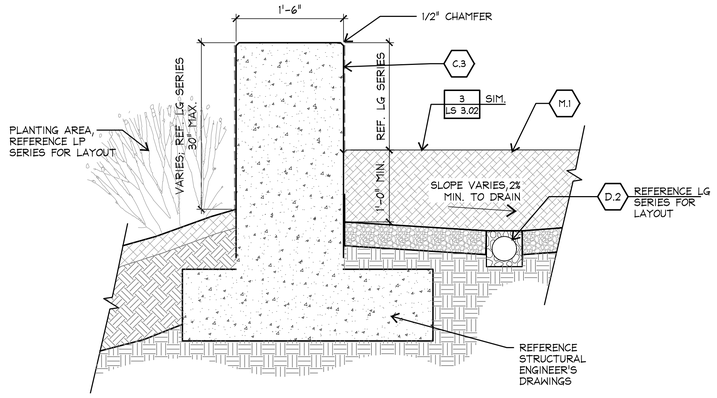
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4 PLAY CLIMBER

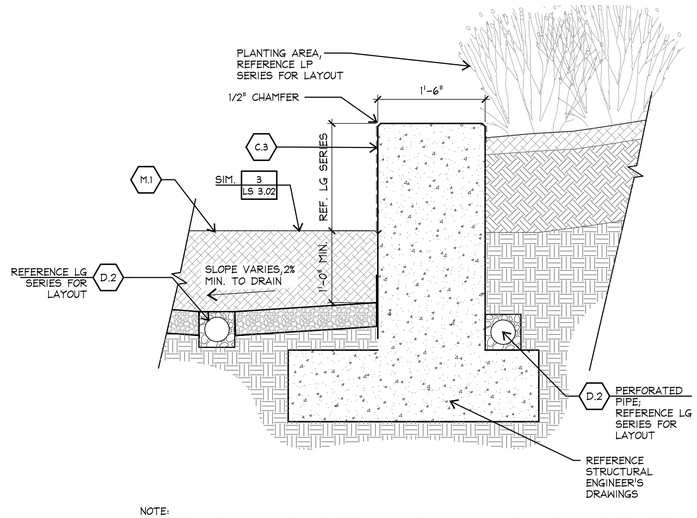
SECTION — SCALE: 1/2"=1'-0"



NOTE:
1. FOOTING TO BEAR ON SOIL OR ROCK EXCAVATION WITH BEARING CAPACITY OF 1500 PSF. FOOTING SHALL BE PLACED WITHIN 48 HOURS AFTER EXCAVATION AND PREPARATION OF BASE. SATURATED SOIL MUST BE REMOVED PRIOR TO PLACING FOOTING. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
2. PROVIDE VERTICAL CONTROL JOINTS AT 10'-0" ON CENTER
3. REFERENCE STRUCTURAL CONCRETE NOTES ON SHEET S1.0 FOR CONCRETE MIX DESIGN INFORMATION

3 CONCRETE SEAT WALL AT WOOD FIBAR B

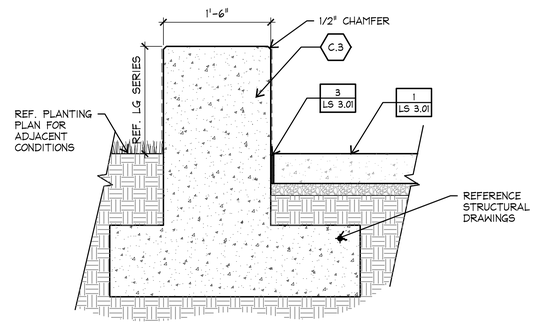
SECTION — SCALE: 1"=1'-0"



NOTE:
1. FOOTING TO BEAR ON SOIL OR ROCK EXCAVATION WITH BEARING CAPACITY OF 1500 PSF. FOOTING SHALL BE PLACED WITHIN 48 HOURS AFTER EXCAVATION AND PREPARATION OF BASE. SATURATED SOIL MUST BE REMOVED PRIOR TO PLACING FOOTING. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
2. PROVIDE VERTICAL CONTROL JOINTS AT 10'-0" ON CENTER
3. REFERENCE STRUCTURAL CONCRETE NOTES ON SHEET S1.0 FOR CONCRETE MIX DESIGN INFORMATION

2 CONCRETE SEAT WALL AT WOOD FIBAR A

SECTION — SCALE: 1"=1'-0"



NOTE:
1. FOOTING TO BEAR ON SOIL OR ROCK EXCAVATION WITH BEARING CAPACITY OF 1500 PSF. FOOTING SHALL BE PLACED WITHIN 48 HOURS AFTER EXCAVATION AND PREPARATION OF BASE. SATURATED SOIL MUST BE REMOVED PRIOR TO PLACING FOOTING. REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
2. PROVIDE VERTICAL CONTROL JOINTS AT 10'-0" ON CENTER
3. REFERENCE STRUCTURAL CONCRETE NOTES ON SHEET S1.0 FOR CONCRETE MIX DESIGN INFORMATION

1 CONCRETE SEAT WALL

SECTION — SCALE: 1"=1'-0"

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landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
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SARAH ELAINE KLEIN
3109
STATE OF TEXAS

08/05/19

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City of San Antonio
San Antonio, Texas

project number
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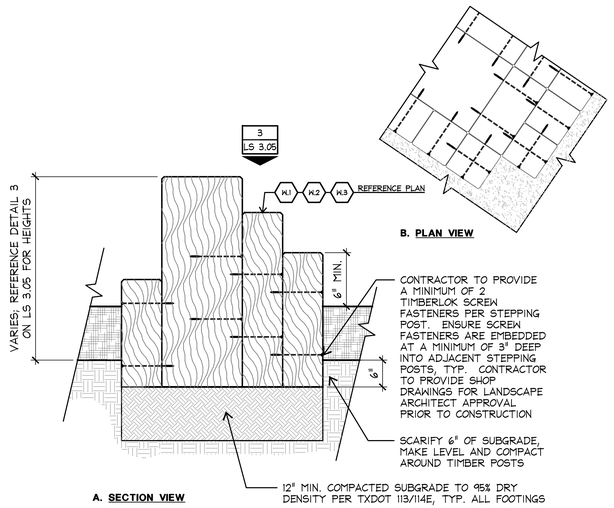
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designed: XX
drawn: XX
reviewed: XX

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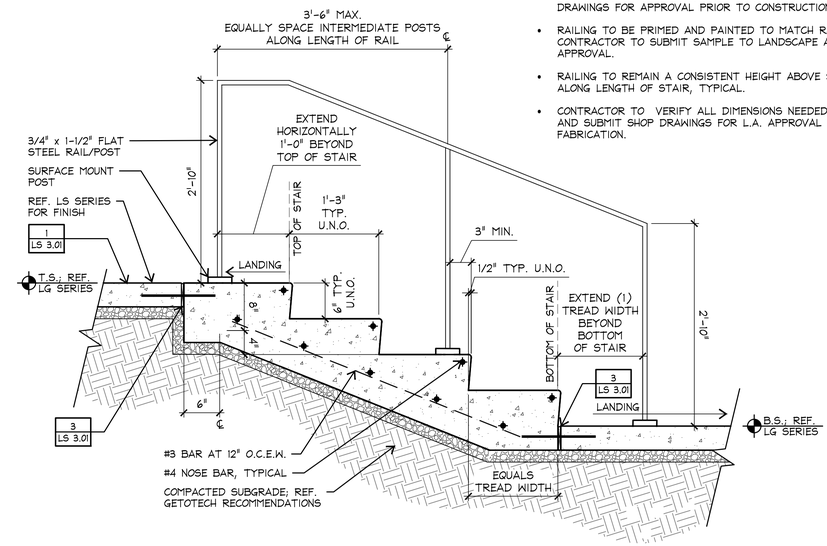
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4 TIMBER POST CLIMBER

SECTION — SCALE: 3/4"=1'-0"



NOTES:

- NUMBER OF STAIR TREADS VARIES; REF. LG SERIES FOR TOP AND BOTTOM OF STAIR ELEVATIONS. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.
- RAILING TO BE PRIMED AND PAINTED TO MATCH RAL 7037; CONTRACTOR TO SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL.
- RAILING TO REMAIN A CONSISTENT HEIGHT ABOVE STAIR NOSINGS ALONG LENGTH OF STAIR, TYPICAL.
- CONTRACTOR TO VERIFY ALL DIMENSIONS NEEDED FOR HANDRAIL, AND SUBMIT SHOP DRAWINGS FOR L.A. APPROVAL PRIOR TO FABRICATION.

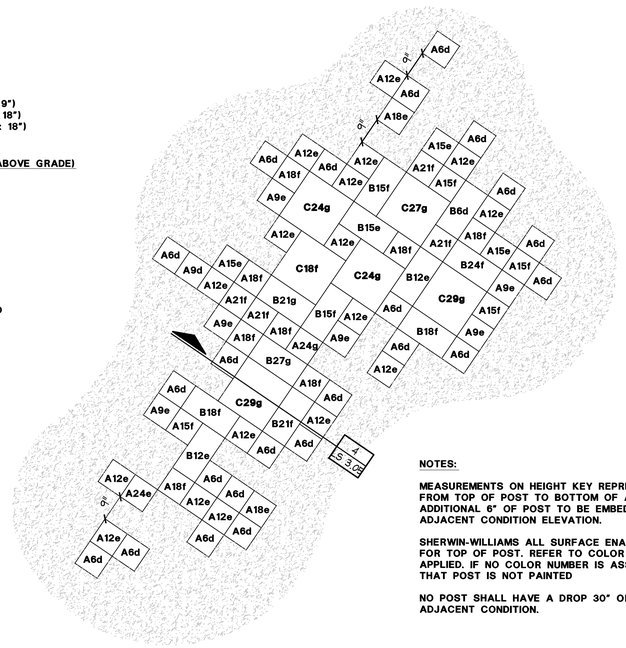
2 CONCRETE STAIR

SECTION — SCALE: 1"=1'-0"

SIZE KEY
A = W.1 (9" x 9")
B = W.2 (9" x 18")
C = W.3 (18" x 18")

HEIGHT KEY (ABOVE GRADE)
6 = 6"
9 = 9"
12 = 12"
15 = 15"
18 = 18"
21 = 21"
24 = 24"
27 = 27"
29 = 29"

COLOR KEY
d = UNPAINTED
e = RAL 1000
f = RAL 6034
g = RAL 6026



NOTES:

MEASUREMENTS ON HEIGHT KEY REPRESENT POST HEIGHTS FROM TOP OF POST TO BOTTOM OF ADJACENT CONDITION. ADDITIONAL 6" OF POST TO BE EMBEDDED BELOW BOTTOM OF ADJACENT CONDITION ELEVATION.

SHERWIN-WILLIAMS ALL SURFACE ENAMEL OIL BASE TO BE USED FOR TOP OF POST. REFER TO COLOR KEY FOR PAINT COLOR APPLIED. IF NO COLOR NUMBER IS ASSIGNED TO POST, THEN THAT POST IS NOT PAINTED

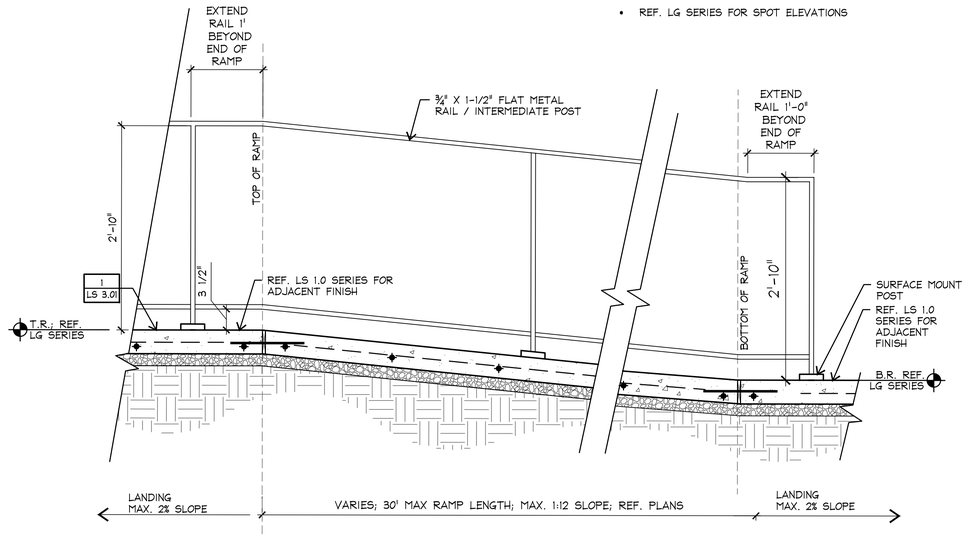
NO POST SHALL HAVE A DROP 30" OR GREATER TO THE ADJACENT CONDITION.

3 TIMBER POST CLIMBER

PLAN — SCALE: 1/2"=1'-0"

NOTE:

- RAILING TO BE PRIMED AND PAINTED TO MATCH RAL 7037; CONTRACTOR TO SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL.
- CONTRACTOR TO VERIFY ALL DIMENSIONS NEEDED FOR HANDRAIL, AND SUBMIT SHOP DRAWINGS FOR LANDSCAPE ARCHITECTURE APPROVAL PRIOR TO FABRICATION.
- REF. LG SERIES FOR SPOT ELEVATIONS



1 CONCRETE RAMP

SECTION — SCALE: 1"=1'-0"

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suite 200
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08/05/19

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issue for construction

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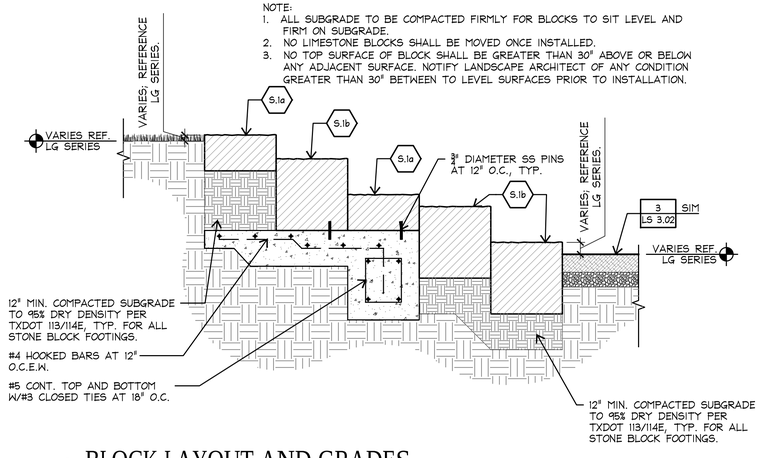
issue date
november 8, 2019

designed: XX
drawn: XX
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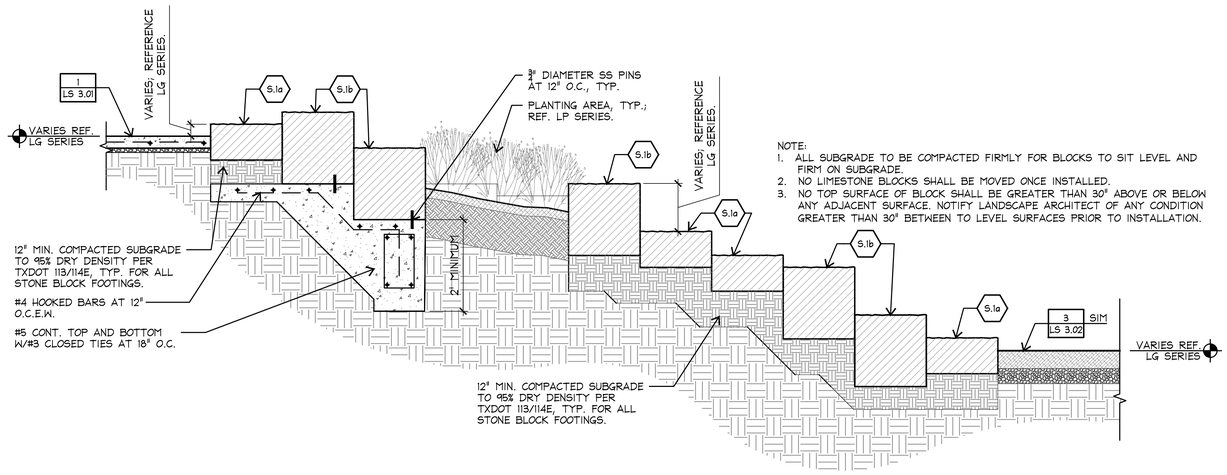
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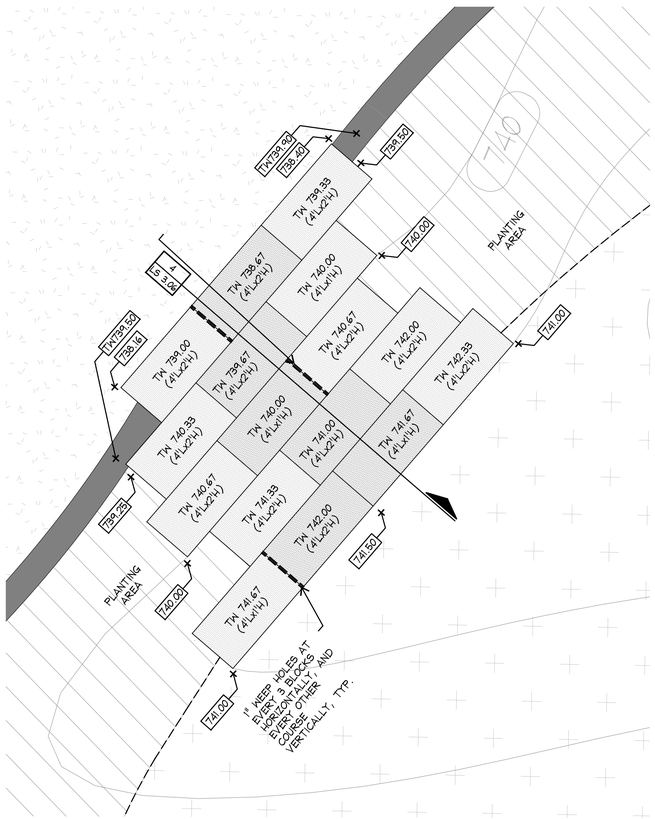
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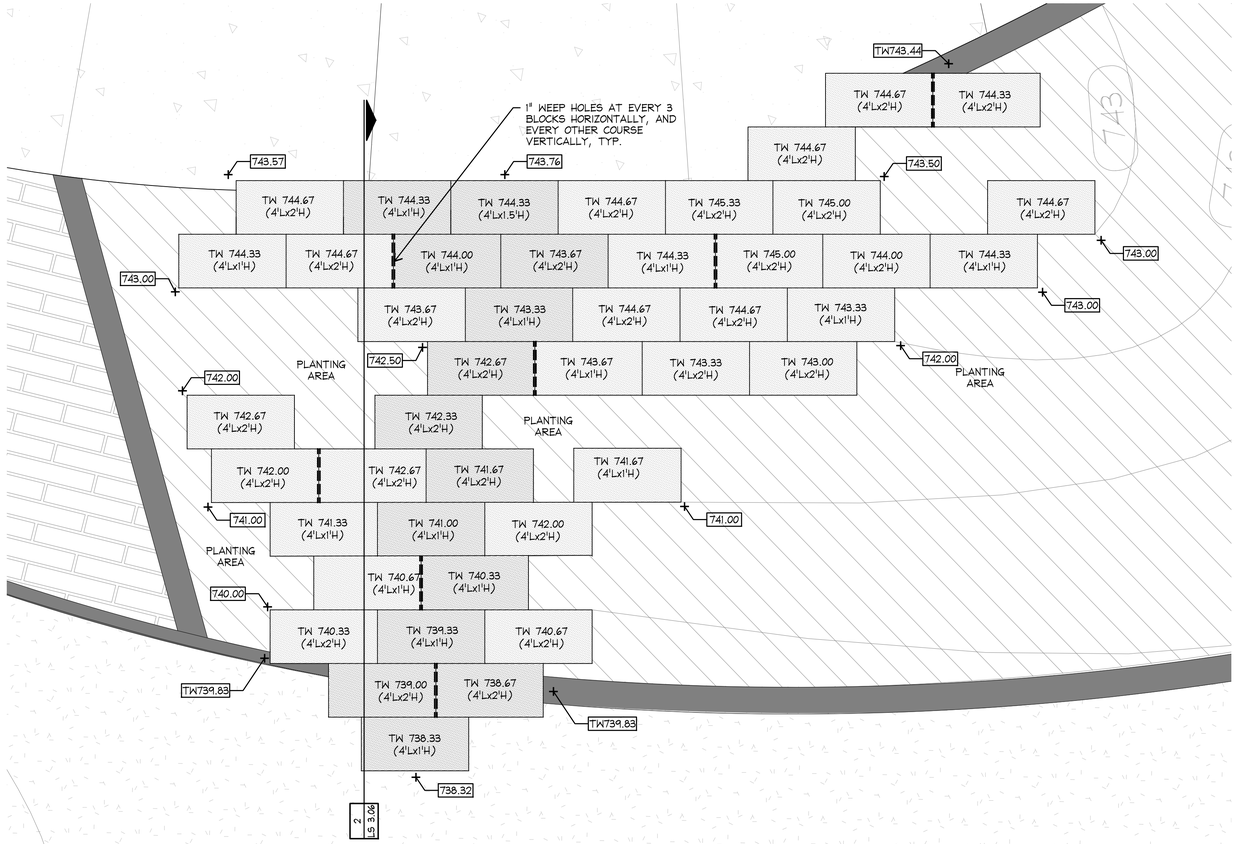
4 BLOCK LAYOUT AND GRADES
SECTION — SCALE: 1/2"=1'-0"



2 BLOCK LAYOUT AND GRADES
SECTION — SCALE: 1/2"=1'-0"



3 BLOCK LAYOUT AND GRADES
PLAN — SCALE: 3/8"=1'-0"



1 BLOCK LAYOUT AND GRADES
PLAN — SCALE: 3/8"=1'-0"

NORTH

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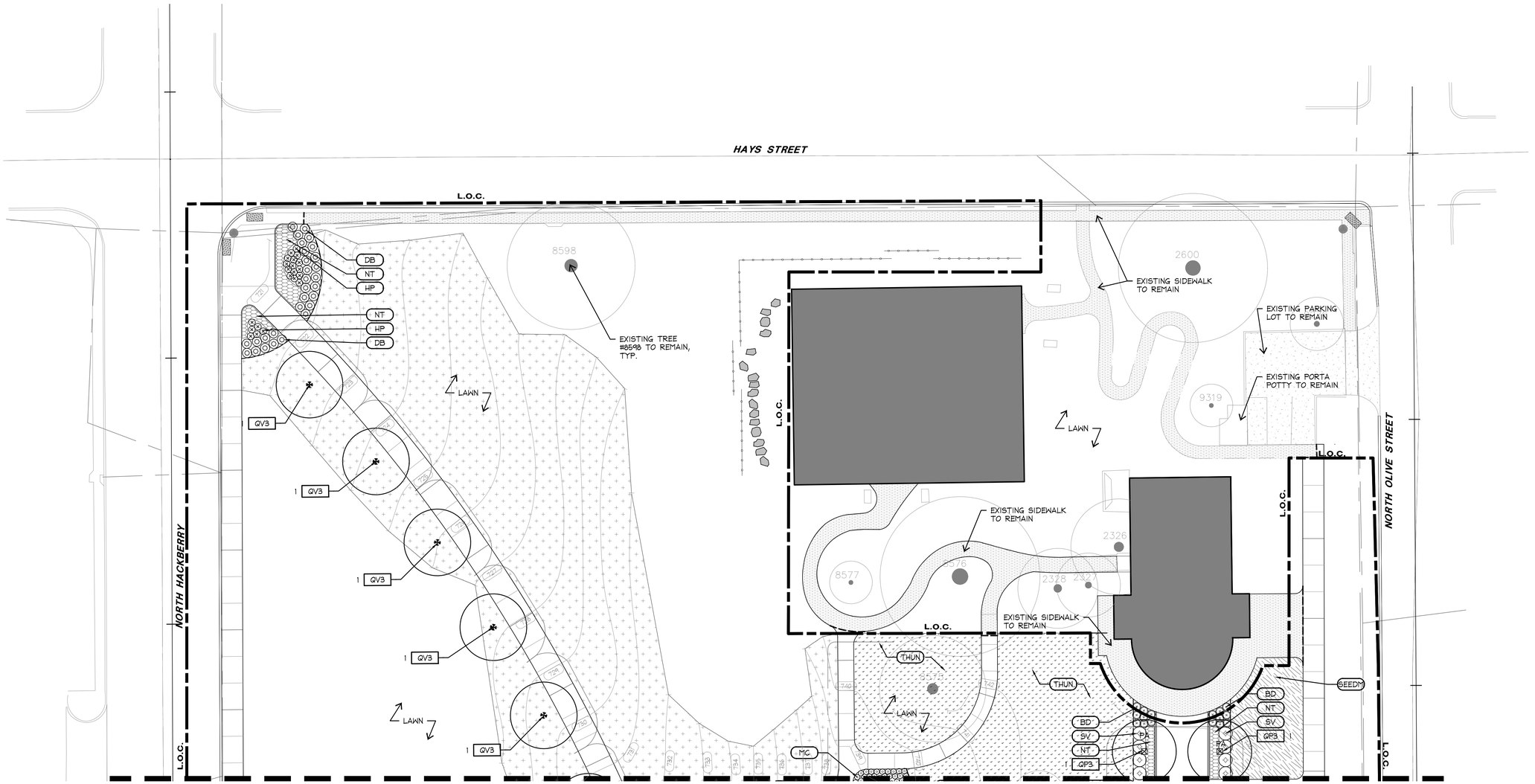
designed: XX
drawn: XX
reviewed: XX

sheet title
sitework details

sheet
LS 3.06

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NOTE:
ALL AREAS DISTURBED BY CONSTRUCTION TO BE FINE GRADED AND HYDROMULCHED.



MATCHLINE: REF. 1/LP 1.02

PLANTING

PLAN

0' 10' 20' 40'
SCALE: 1"=20' NORTH

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3109
STATE OF TEXAS
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San Antonio, Texas

project number
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issue date
november 8, 2019

designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

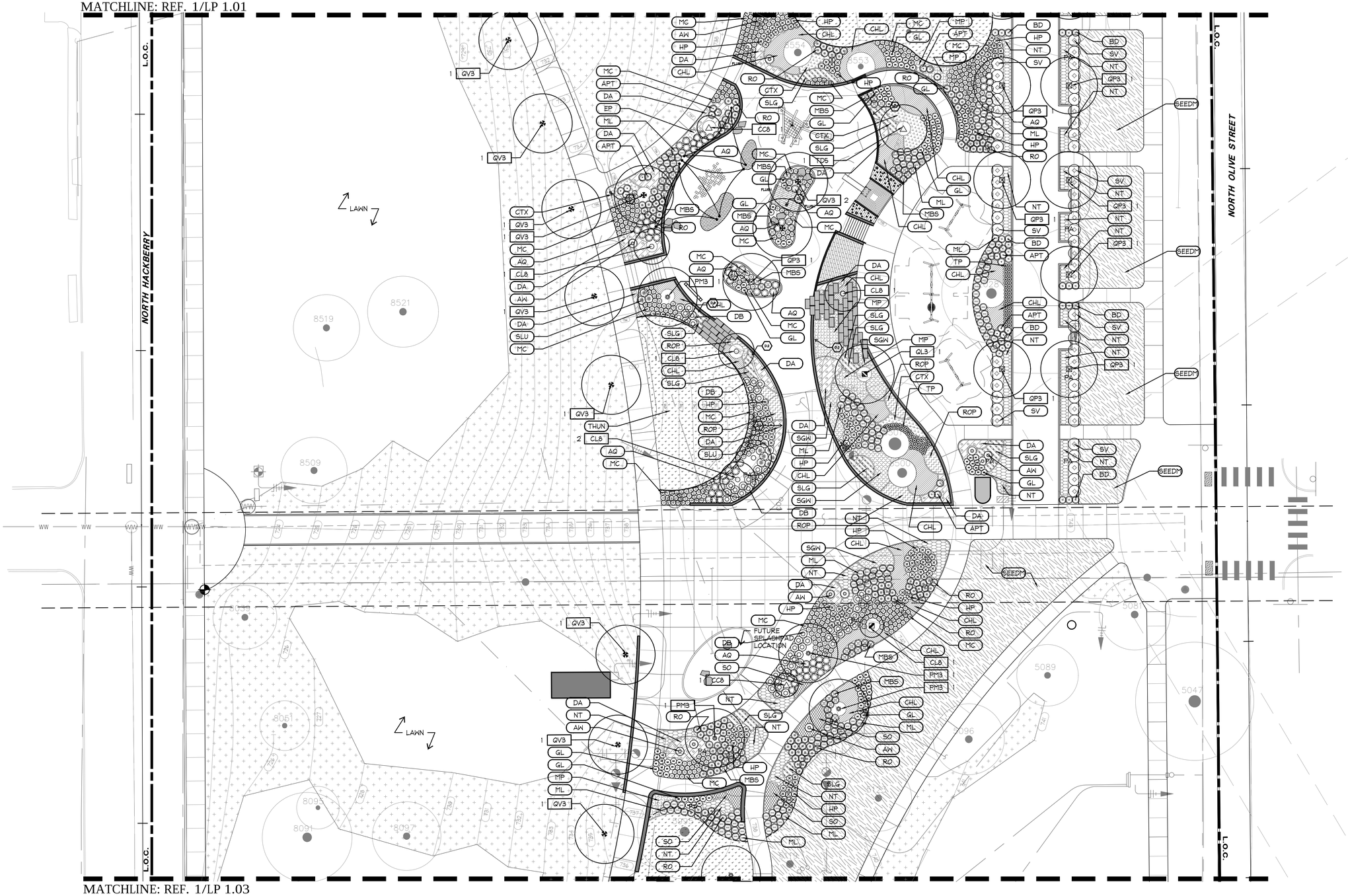
sheet title
planting plan

sheet
LP 1.01

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NOTE:
ALL AREAS DISTURBED BY CONSTRUCTION TO BE FINE GRADED AND HYDROMULCHED.

MATCHLINE: REF. 1/LP 1.01



MATCHLINE: REF. 1/LP 1.03

PLANTING

PLAN

0' 10' 20' 40'
SCALE: 1"=20' NORTH

P:\a18096 - dignowity-lockwood\03 development\04 contract documents\04 CAD\02 sheets\04-LP\A18096- LP1-01.dwg

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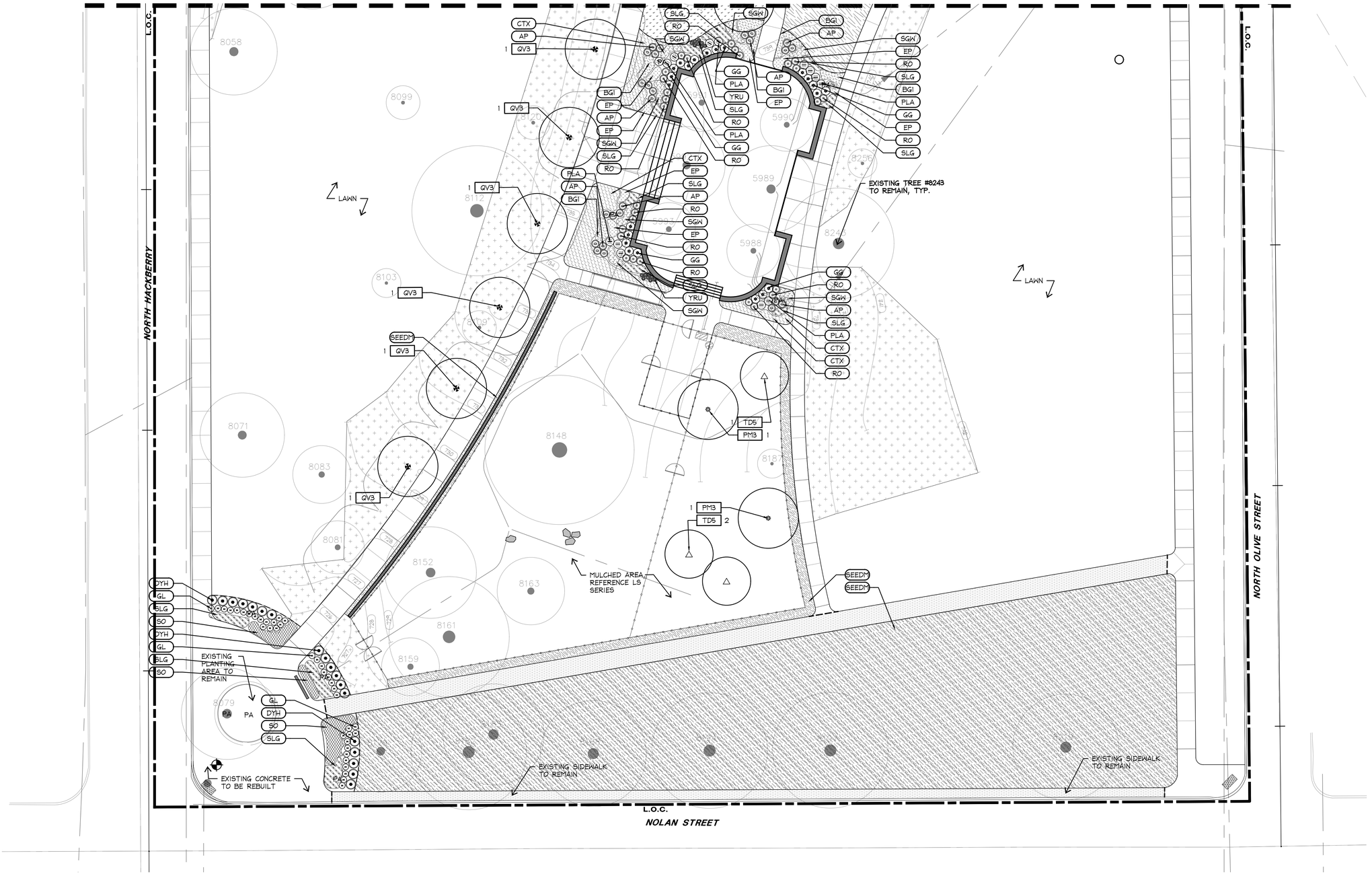
designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
planting plan

sheet
LP 1.02

NOTE:
ALL AREAS DISTURBED BY CONSTRUCTION TO BE FINE GRADED AND HYDROMULCHED.

MATCHLINE: REF. 1/LP 1.02



PLANTING

PLAN

0' 10' 20' 40'
SCALE: 1"=20' NORTH

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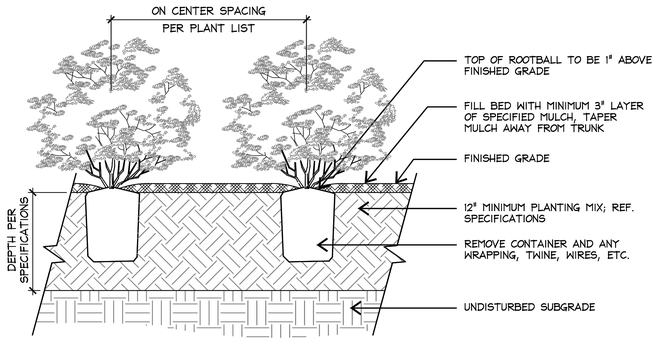
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designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
planting plan

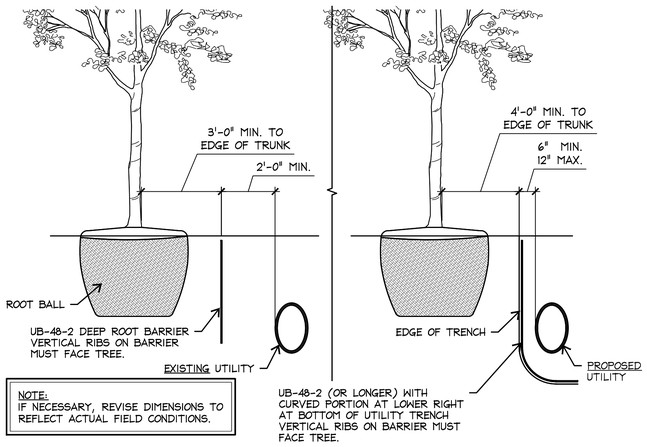
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LP 1.03

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5 SHRUB BED PLANTING

SECTION — SCALE: 1/2"=1'-0"

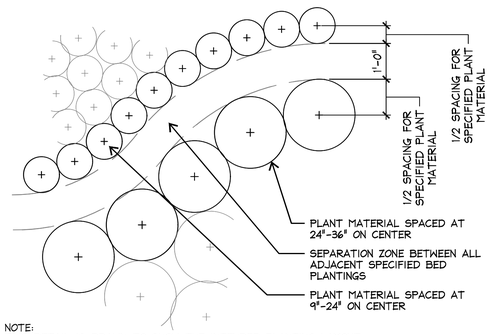


NOTES:
TREES / TREE WELLS SHALL NOT CONFLICT WITH EXISTING OR PROPOSED WATER OR WASTEWATER LINES OR APPURTENANCES AND SHALL NOT BE INSTALLED WITHIN A MINIMUM HORIZONTAL DISTANCE OF FIVE FEET (5') FROM THE OUTSIDE EDGE OF ANY PUBLIC OR PRIVATE UTILITY LINE OR APPURTENANCE TO THE OUTSIDE EDGE OF THE TREE.

ALL TREES/SHRUBS INSTALLED WITHIN A HORIZONTAL SEPARATION DISTANCE OF TEN FEET (10') MAXIMUM TO FIVE FEET (5') MINIMUM FROM EXISTING OR PROPOSED WATER OR WASTEWATER LINES OR APPURTENANCES, SHALL INCLUDE "DEEP ROOT" UB 48-2 ROOT BARRIER, OR APPROVED EQUAL, TO BE INSTALLED VERTICALLY, 48" FROM TOP OF GROUND, 2' FROM THE OUTER DIAMETER OF THE UTILITY PIPE / APPURTENANCE, AND 8' TO 3' FROM THE OUTSIDE EDGE OF THE TREE/SHRUB.

4 PLANTING TREES ADJACENT TO A UTILITY

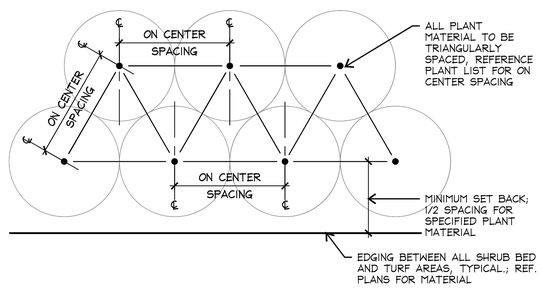
SECTION — SCALE: 3/8"=1'-0"



NOTE:
THIS DETAIL IS DRAWN TO SHOW THE INTENDED PLANTING LAYOUT OF ADJACENT SHRUB BEDS ALONG CURVES. CONTRACTOR TO PLANT ALL PERIMETER OF BED AREAS AS SHOWN AND THEN PLANT THE REMAINDER OF THE BED TRIANGULARLY AT THE SPECIFIED SPACING.

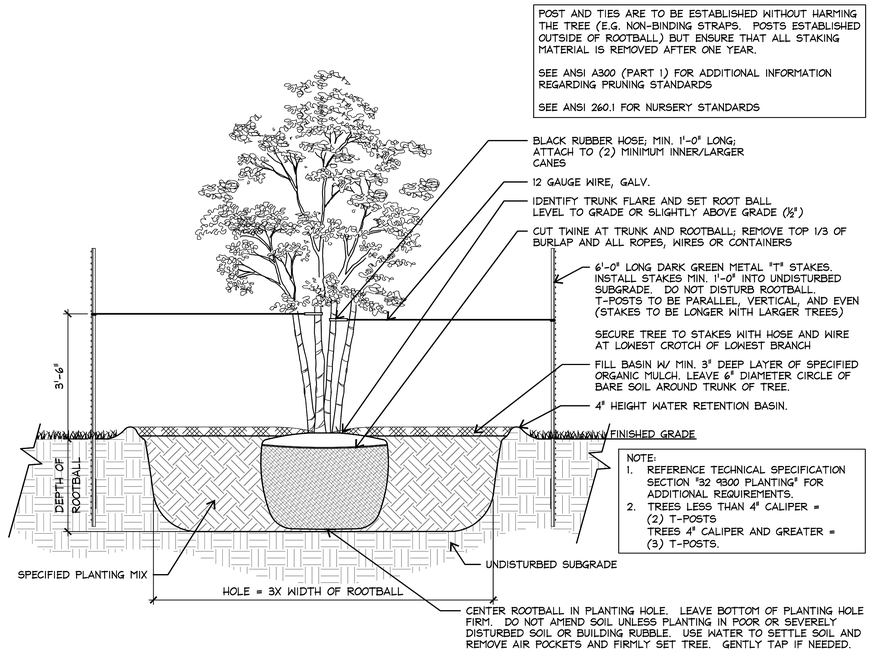
6 CURVED BED LAYOUT

PLAN — SCALE: 1/2"=1'-0"



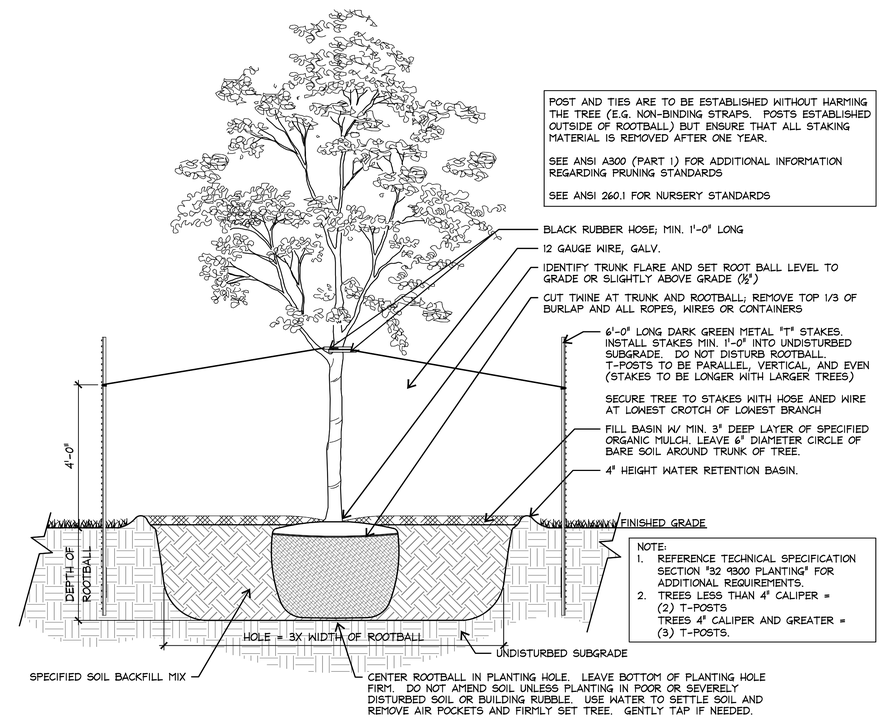
3 PLANT SPACING DIAGRAM

PLAN — SCALE: 1/2"=1'-0"



2 TYPICAL TREE PLANTING - MULTI-TRUNK

SECTION — SCALE: 1-1/2"=1'-0"



1 TYPICAL TREE PLANTING - STANDARD TRUNK

SECTION — SCALE: 1/2"=1'-0"

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san antonio, tx 78215
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drawn: MD, ID
reviewed: MF, EK

sheet title
planting details

sheet
LP 2.01

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PLANT LIST

SHADE TREES

GRAPHIC	KEY	COMMON NAME	SCIENTIFIC NAME	SIZE	REMARKS
	PM3	MEXICAN SYCAMORE	*PLATANUS MEXICANA*	3" CAL; MIN. 12' HT.; MIN. 6' SPRD.	SINGLE TRUNK; STRAIGHT CENTRAL LEADER; FULL, UNIFORM CANOPY; CONTAINER GROWN
	QL3	LACEY OAK	*QUERCUS LACEYI*	3" CAL; MIN. 12' HT.; MIN. 6' SPRD.	SINGLE TRUNK; STRAIGHT CENTRAL LEADER; FULL, UNIFORM CANOPY; CONTAINER GROWN
	QP3	MONTERREY OAK	*QUERCUS POLYMORPHA*	3" CAL; MIN. 12' HT.; MIN. 6' SPRD.	SINGLE TRUNK; STRAIGHT CENTRAL LEADER; FULL, UNIFORM CANOPY; CONTAINER GROWN
	QV3	LIVE OAK	*QUERCUS VIRGINIANA*	3" CAL; MIN. 12' HT.; MIN. 6' SPRD.	SINGLE TRUNK; STRAIGHT CENTRAL LEADER; FULL, UNIFORM CANOPY; CONTAINER GROWN
	TD5	BALD CYPRESS	*TAXODIUM DISTICHUM*	5" CAL; MIN. 16' HT.; MIN. 8' SPRD.	SINGLE TRUNK; STRAIGHT CENTRAL LEADER; FULL, UNIFORM CANOPY; CONTAINER GROWN

ORNAMENTAL TREES

GRAPHIC	KEY	COMMON NAME	SCIENTIFIC NAME	SIZE	REMARKS
	CB8	MEXICAN OLIVE	*CORDIA BOSSIERI*	8' HT; 5' MIN. SPRD.	MULTI-TRUNK; 3-5 TRUNKS; 1-1/2" MIN. CANE CALIPER; FULL, UNIFORM CANOPY; CONTAINER GROWN
	CC8	TEXAS REDBUD	*CERCIS CANADENSIS VAR. 'TEXENSIS'*	2" CAL; 8' HT.; MIN. 5' SPRD.	SINGLE TRUNK; STRAIGHT CENTRAL LEADER; FULL, UNIFORM CANOPY; CONTAINER GROWN
	CL8	DESERT WILLOW	*CHILOPSIS LINEARIS*	8' HT; 5' MIN. SPRD.	MULTI-TRUNK; 3-5 TRUNKS; 1-1/2" MIN. CANE CALIPER; FULL, UNIFORM CANOPY; CONTAINER GROWN

SHRUBS, ORNAMENTAL GRASSES, AND VINES

GRAPHIC	KEY	COMMON NAME	SCIENTIFIC NAME	SIZE	REMARKS
	AP	PARRY'S AGAVE	*AGAVE PARRYI*	5 GAL.; MIN. 18" HT.; MIN. 24" SPRD.	PLANT 36" O.C.
	APT	ARTICHOKE AGAVE	*AGAVE PARRYI V. TRUNCATA*	3 GAL; 36" HT; 36" SPRD.	PLANT 36" O.C.
	AQ	FLAME ACANTHUS	*ANISACANTHUS QUADRIFIDUS VAR. WRIGHTII*	5 GAL.; MIN. 18" HT.; MIN. 24" SPRD.	PLANT 36" O.C.
	AW	WEBER'S AGAVE	*AGAVE WEBERI*	10 GAL; 24" HT.; 24" SPRD.	PLANT AS SHOWN
	BD	BLACK DALEA	*DALEA FRUTESCENS*	5 GAL.; MIN. 18" HT.; MIN. 24" SPRD.	PLANT 36" O.C.
	DB	BICOLOR IRIS	*DIETES BICOLOR*	5 GAL; 24" HT; 24" SPRD.	PLANT 42" O.C.
	DYH	DWARF YAUPON HOLLY	*ILEX VOMITORIA 'NANA'*	10 GAL; 24" HT.; 24" SPRD.	PLANT AS SHOWN
	GG	GOLDEN SHOWERS THRYALLIS	*GALPHIMIA GLAUCA*	3 GAL; 36" HT; 36" SPRD.	PLANT 36" OC
	GL	GAURA 'WHIRLING BUTTERFLIES'	*GAURA LINDHEIMERI*	1 GAL.; 12" HT; 18" SPRD.	PLANT 18" O.C.
	HP	RED YUCCA	*HESPERALOE PARVIFLORA*	5 GAL; 24; HT 24" SPRD.	PLANT 30" O.C.
	MBS	MEALY BLUE SAGE	*SLAVIA FARINACEA*	3 GAL.; 12" MIN. HT.; 12" MIN. SPRD.	PLANT 18" OC
	MC	GULF MUHLY	*MUHLENBERGIA CAPILLARIS*	3 GAL; 18" HT; 18" SPRD.	PLANT 24" O.C.
	ML	LINDHEIMER MUHLY	*MUHLENBERGIA LINDHEIMERI*	3 GAL.; 18" MIN. HT.; 18" MIN. SPRD.	PLANT 36" O.C.
	PLA	PLUMBAGO	*PLUMBAGO AURICULATA*	1 GAL; 12" HT., 12" SPRD	PLANT 12" OC
	RO	UPRIGHT ROSEMARY	*ROSMARINUS OFFICINALIS*	3 GAL; 15" HT; 15" SPRD.	PLANT 36" O.C.
	SLU	MEXICAN BUSH SAGE	*SALVIA LEUCANTHA*	3 GAL; 15" HT; 15" SPRD.	PLANT 36" O.C.
	SV	SANDANKWA VIBURNUM	*VIBURNUM SUSPENSUM*	48" HT.; 48 SPRD.	PLANT 60" O.C.
	TP	PURPLE HEART PLANT	*SETCREASEA PALLIDA*	1 GAL; 12"; HT 12" SPRD.	PLANT 18" O.C.
	YRU	TWISTLEAF YUCCA	*YUCCA RUPICOLA X PALLIDA*	5 GAL; 12"; HT 12" SPRD.	PLANT 18" O.C.

PERENNIALS, GROUNDCOVERS, AND ANNUALS

GRAPHIC	KEY	COMMON NAME	SCIENTIFIC NAME	SIZE	REMARKS
	BGI	BLUE GRAMA 'BLONDE AMBITION'	*BOUTELOUA GRACILIS*	1 GAL; 12" HT; 12" SPRD.	PLANT 18" O.C.
	CHL	INLAND SEA OATS	*CHASMANTHIUM LATIFOLIUM*	1 GAL.; 12" HT; 12" SPRD.	PLANT 24" O.C.
	CTX	TEXAS SEDGE	*CAREX TEXENSIS*	1 GAL.; 6" HT; 8" SPRD.	PLANT 10" O.C.
	DA	SILVER PONYFOOT	*DICHONDRA ARENTEA*	1 GAL.; 6" HT; 12" SPRD.	PLANT 18" OC
	EP	PURPLE CONEFLOWER	*ECHINACEA PURPUREA*	1 GAL.; 10" HT; 10" SPRD.	PLANT 12" O.C.
	MP	MOUNTAIN PEA	*ORBEXILUM VULGARE*	1 GAL.; 12" HT; 12" SPRD.	PLANT 30" O.C.
	NT	MEXICAN FEATHERGRASS	*NASSELLA TENUISSIMA*	3 GAL.; 12" HT; 10" SPRD.	PLANT 18" O.C.
	ROP	TRAILING ROSEMARY	*ROSMARINUS PROSTRATUS*	1 GAL.; 6" HT; 12" SPRD.	PLANT 24" O.C.; 0.29 PLANTS/S.F.
	SGW	TEXAS WEDDING WHITE AUTUMN SAGE	*SALVIA GREGGII 'TEXAS WEDDING'*	1 GAL.; 12" HT; 12" SPRD.	WHITE BLOOMS, PLANT 24" O.C.
	SLG	SKELETONLEAF GOLDENEYE	*VIGUIERA STENOLOBA*	1 GAL.; 10" HT; 10" SPRD.	PLANT 18" O.C.
	SO	HEARTLEAF SKULLCAP	*SCUTELLARIA OVATA*	1 GAL., 12" HT., 10" SPRD.	PLANT 18" O.C.

TURF GRASS AND SEED MIXES

GRAPHIC	KEY	COMMON NAME	SCIENTIFIC NAME	SIZE	REMARKS
	SEEDB	BLACKLAND PRAIRIE MIX	*N/A*	SEEDING RATE: 20 LBS PER ACRE	NATIVE AMERICAN SEED, JUNCTION, TX; 1-800-728-4043
	THUN	THUNDERTURF SEED MIX	*N/A*	SEEDING RATE: 10.2 LBS PER 3,400 SF	NATIVE AMERICAN SEED, JUNCTION, TX; 1-800-728-4043
	HYDB	COMMON BERMUDA	*CYNODON DACTYLON*	HYDROMULCH	SEED 2 LBS/1,000 S.F.; CONTRACTOR TO FIELD VERIFY QUANTITY OF LAWN REQUIRED.

TBG

landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
tbgpartners.com

REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEIN
3109
STATE OF TEXAS

08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

issue date
november 8, 2019

designed: AB, MD,MF, ID
drawn: MD,ID
reviewed: MF,EK

sheet title
planting details

sheet
LP 2.02

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PRESSURE REQUIREMENT CALCULATIONS @ ZONE No. 59	
DESIGN STATISTICS FOR CALCULATIONS	
Total Zone Flow:	34.0 g.p.m.
Electric Valve Size:	1.5"
Static Pressure Less 10% (static @ 65 psi):	58.5 p.s.i.
ACCUMULATIVE LOSSES FROM CITY MAIN TO FURTHEST HEAD	
Sprinkler head requirement:	45 p.s.i.
Zone Pipe/Fitting Loss:	1.25 p.s.i.
1.5" Electric Valve Loss:	1.7 p.s.i.
Elevation Net Loss (+- FT.):	
System Mainline Loss (3" Sch-40 Loop Main):	0.69 p.s.i.
Backflow Preventer Loss (2.5"):	5.0 p.s.i.
Water Meter Loss (2"):	0.9 p.s.i.
Master Electric Valve Loss (3"):	1.0 p.s.i.
Type K Copper Service Loss:	
Total Net Loss:	10.54 p.s.i.
Design Pressure:	55.54 p.s.i.

Notes: System requires a minimum of 51 psi static pressure for system to operate properly. Irrigation Contractor shall conduct on site pressure test to verify site pressure prior to starting work. Contractor shall notify Owner's Representative of pressure deficiencies or any other on site problems that may alter the effectiveness of the system. Pipe has been size to insure that velocity does not exceed 5 FPS. do not change pipe size in the field without consulting system designer.

4 CRITICAL LOSS CHART

TYPICAL WEEKLY SCHEDULE BASED ON PRECIPITATION RATE

Precipitation Rate (in/hr)		Water Desired (in/wk)	Time/Cycle (min)	No. of Zones	Total Time * Min.	Hrs.
Turf Rotor Zone	.64	.80	75.0	37	2775	46.25
MP Rotator Spray	.44	.80	107.0	10	1070	17.85
Turf Drip Zones	.96	.80	50.0			
Drip Zones	.64	.80	75.0	9	675	11.25
Tree Bubblers	3.87	.80	12.0	5	60	1.0
Total System Hours of Operation Per Week						76.35

* IT WILL BE NECESSARY TO WATER MULTIPLE ZONES AT ONE TIME TO MEET WATERING WINDOW . A TYPICAL SCHEDULE WOULD ALLOW WATERING TO OCCUR TWO TIMES PER WEEK. TOTAL WATERING TIME WOULD BE DIVIDED BY THE NUMBER OF WATERING DAYS. THIS SCHEDULE IS DESIGNED FOR SUMMER WATER USAGE AND ESTABLISHMENT OF NEW PLANTING.

3 VALVE SCHEDULE

CONSTRUCTION NOTES:

1. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH THE SPECIFICATIONS AND ALL SUBMITTAL REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO NOTIFY THE OWNER'S REPRESENTATIVE FOR SITE INSPECTIONS AS SPECIFIED IN THE SPECIFICATIONS. FAILURE TO NOTIFY THE OWNER'S REPRESENTATIVE DOES NOT RELIEVE THE CONTRACTOR FROM INSPECTION APPROVAL AND WILL REQUIRE THE CONTRACTOR TO UNCOVER WORK AS REQUIRED FOR APPROVAL AT THE COST OF THE CONTRACTOR. IRRIGATION CONTRACTOR IS TO INFORM OWNER'S REPRESENTATIVE OF THE START DATE OF WORK.
2. THE IRRIGATION CONTRACTOR IS REQUIRED BY LAW TO NOTIFY TEXAS ONE CALL (800-245-4545) 72 HOURS PRIOR TO ANY EXCAVATION. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. IRRIGATION CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES WHETHER OR NOT TEXAS ONE CALL IS NOTIFIED.
3. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WITHOUT VERIFYING ACTUAL ON-SITE WATER PRESSURE FROM THE SOURCE. DO NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
4. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER CONTRACTORS AS REQUIRED TO ACCOMPLISH IRRIGATION INSTALLATION.
5. DUE TO SCALE OF DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS SLEEVES, ETC., WHICH MAY BE REQUIRED. IRRIGATION CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF HIS WORK AND PLAN HIS WORK ACCORDINGLY, FURNISHING SUCH FITTINGS, ETC., AS MAY BE REQUIRED TO MEET SUCH CONDITIONS. DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. THE WORK SHALL BE INSTALLED IN SUCH A MANNER AS TO AVOID CONFLICTS BETWEEN IRRIGATION SYSTEM, PLANTING AND ARCHITECTURAL FEATURES. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC., SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS AND WITHIN PROPERTY LINES.
6. DURING INSTALLATION IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO COORDINATE PIPING WITH THE LANDSCAPE SUBCONTRACTOR TO AVOID CONFLICT WITH PROPOSED PLANTING, IT WILL BE THE RESPONSIBILITY OF THE IRRIGATION SUBCONTRACTOR TO MOVE PIPING TO ALLOW PROPER PLACEMENT OF PLANT MATERIAL. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER.
7. NO MACHINE TRENCHING IS TO BE DONE WITHIN THE DRIPLINE OF EXISTING TREES. TRENCHING IS TO BE DONE BY HAND, AIR-SPADE OR BY TUNNELING UNDER ROOT SYSTEM BY METHOD APPROVED BY LANDSCAPE ARCHITECT. PIPING LAYOUT IS DIAGRAMMATIC AND PIPING SHALL BE ROUTED AROUND EXISTING TREES AS POSSIBLE TO AVOID DAMAGE TO THE ROOT SYSTEMS. DO NOT CUT ANY ROOT OVER 3/4" DIAMETER UNLESS APPROVAL FROM THE LANDSCAPE ARCHITECT IS FIRST OBTAINED. ANY CUTS MADE SHALL BE CLEAN AND WITHOUT FRAYED ENDS.
8. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR SLEEVES AND CHASES WHEREVER PIPING OR CONDUIT PASSES, UNDER ALL PAVING, THROUGH WALLS, ETC. ALL SLEEVE LOCATIONS MAY NOT BE SHOWN ON PLAN, COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS, GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS AS REQUIRED. ALL SLEEVE AND CHASE LOCATIONS ARE NOT NOTED ON PLAN. ALL SLEEVES 4" OR LESS SHALL BE SCH-40 PVC, ALL SLEEVES 6" OR GREATER SHALL BE CLASS-200 PVC. ALL SLEEVES TO BE SIZED TWICE THE DIAMETER OF PIPE OR COMBINATION OF PIPES ENCLOSED WITHIN THE SLEEVE.
9. CONFIRM STATIC WATER PRESSURE AT LEAST 7 DAYS BEFORE BEGINNING WORK. IF STATIC WATER PRESSURE IS LESS THAN STATED IN PRESSURE CALCULATIONS DO NOT PROCEED UNTIL DIRECTED SO BY THE LANDSCAPE ARCHITECT. IF ACTUAL SITE STATIC PRESSURE EXCEEDS DESIGN PRESSURE BY 15 P.S.I. IN ANY ZONE, A PRESSURE REDUCING VALVE SHALL BE INSTALLED. REFER TO DETAILS FOR MODEL.
10. ADJUSTABLE FLOW CONTROLS SHALL BE REQUIRED ON CIRCUIT REMOTE CONTROL VALVE. PRESSURE AT ANY POINT WITHIN A ZONE SHALL NOT VARY BY MORE THAN 10% FROM THE DESIGN SPRINKLER OPERATING PRESSURE. SEE SPECIFICATIONS FOR TESTING.
11. THE CONTRACTOR SHALL BE A REGISTERED LICENSED IRRIGATOR IN THE STATE OF TEXAS. CONTRACTOR MUST CONFORM TO ALL CODES AS STATED IN SECTION 344 OF THE TEXAS WATER CODE AS OUTLINED BY TCEQ.
12. OBTAIN COVERAGE TEST APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO PLANTING, SODDING OR SEEDING.
13. ALL UNDESIGNATED END LATERAL PIPING SHALL BE ½" IN SPRAY ZONES AND ¾" IN ROTOR ZONES.
14. SPRINKLER HEAD SPACING SHALL NOT EXCEED 50% OF SPRAY DIAMETER BASED ON MANUFACTURERS OPERATING SPECIFICATIONS. SPRINKLER HEAD SPACING SHALL BE DESIGNED FOR HEAD-TO-HEAD COVERAGE OR HEADS SHALL BE SPACED AS PER MANUFACTURER'S RECOMMENDATIONS AND ADJUSTED FOR PREVAILING WINDS. THE SYSTEM SHALL BE DESIGNED SO THAT IRRIGATION IS NOT APPLIED TO VEHICULAR TRAFFIC LANES, OTHER PAVEMENT OR STRUCTURES.
15. ALL ROTORS SHALL BE LOCATED 12" FROM PAVEMENT, CURBS OR EDGE OF STRUCTURE, ALL SPRAY HEADS SHALL BE LOCATED 6" FROM PAVEMENT, CURBS OR EDGE OF STRUCTURE.
16. VALVE AND CIRCUITS SHALL BE SEPARATED BASED ON WATER USE, SO THAT TURF AREAS ARE WATERED SEPARATELY FROM SHRUB AND GROUND COVER AREAS. IRRIGATION HEADS IN THE TURF AREAS WILL BE VALVED SEPARATELY FROM SHRUB AND/OR GROUND COVER AREAS. IT IS RECOMMENDED THAT SEASONAL COLOR AREAS BE WATERED SEPARATELY. UNDER NO CIRCUMSTANCES ARE ZONE TYPES TO BE COMBINED I.E. ROTARY HEADS WITH SPRAYS, TURF AREAS WITH PLANTING BEDS.
17. IT IS THE CONTRACTORS RESPONSIBILITY TO CONFIRM STATIC PRESSURE ON SITE PRIOR TO STARTING WORK. REFER TO NOTES #9 AND #10.
18. IT IS THE IRRIGATION CONTRACTOR'S RESPONSIBILITY TO SECURE ALL REQUIRED PERMITS AND PAY ALL ASSOCIATED FEES UNLESS OTHERWISE NOTED. ALL LOCAL CODES SHALL PREVAIL OVER ANY DISCREPANCIES CONTAINED IN THESE DOCUMENTS.
19. UNSLEEVED PIPES MAY BE SHOWN UNDER PAVEMENT FOR GRAPHIC CLARITY. INSTALL PIPES IN ADJACENT SLEEVES WITHIN LANDSCAPE AREAS.
20. 120 VAC ELECTRICAL POWER SOURCE AT CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. THE IRRIGATION CONTRACTOR SHALL MAKE THE FINAL CONNECTION FROM THE ELECTRICAL SOURCE TO THE CONTROLLER WITH A HARDWIRE CONNECTION APPROVED AND INSTALLED BY A LICENSED ELECTRICIAN.
21. SPRINKLER HEADS SHALL HAVE MATCHED PRECIPITATION RATES WITHIN EACH CONTROL VALVE CIRCUIT.
22. SERVICEABLE CHECK VALVES SHALL BE REQUIRED ADJACENT TO PAVED AREAS WHERE ELEVATION DIFFERENCES MAY CAUSE LOW HEAD DRAINAGE.
23. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A CONTROLLER CAPABLE OF DUAL OR MULTIPLE PROGRAMMING. CONTROLLERS SHALL HAVE MULTIPLE CYCLE START CAPACITY AND A FLEXIBLE CALENDAR PROGRAM, INCLUDING THE CAPABILITY OF BEING SET TO WATER EVERY FIVE DAYS. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A RAIN SENSOR SHUT-OFF DEVICE.
24. ALL IRRIGATION WIRES SHALL BE UL LISTED FOR DIRECT UNDERGROUND BURIAL AND SHALL BE SIZED PER THE MANUFACTURER'S RECOMMENDATIONS. 3M-DBY WATERPROOF CONNECTORS TO BE USED ON ALL WIRE CONNECTIONS. SUBMIT SAMPLE TO LANDSCAPE ARCHITECT.
25. ALL IRRIGATION HEADS SHALL BE ADJUSTED TO MINIMIZE OVER-SPRAY ONTO ALL IMPERVIOUS SURFACES.
26. ALL PIPE CONNECTIONS SHALL BE PRIMED WITH AN APPROVED COLOR PRIMER BEFORE BEING CHEMICAL WELDED.
27. AFTER AWARD OF CONTRACT AND BEFORE ANY IRRIGATION SYSTEM MATERIALS ARE ORDERED FROM SUPPLIERS OR DELIVERED TO THE JOB SITE, SUBMIT TO THE OWNER A COMPLETE LIST OF ALL IRRIGATION SYSTEM MATERIALS, OR PROCESSES PROPOSED TO BE FURNISHED AND INSTALLED AS PART OF THIS CONTRACT. THE LANDSCAPE ARCHITECT OR OWNER'S AUTHORIZED REPRESENTATIVE WILL ALLOW NO SUBSTITUTIONS WITHOUT PRIOR WRITTEN ACCEPTANCE. MANUFACTURER'S WARRANTIES SHALL NOT RELIEVE THE CONTRACTOR OF HIS LIABILITY UNDER THE GUARANTEE. SUCH WARRANTIES SHALL ONLY SUPPLEMENT THE GUARANTEE.
28. IRRIGATION CLOSEOUT DOCUMENTS SHALL INCLUDE A WATER BUDGET, A LAMINATED COPY OF THE WATER BUDGET SHALL BE PERMANENTLY INSTALLED INSIDE THE IRRIGATION CONTROLLER DOOR.
    - A. CHART CONTAINING ZONE NUMBER, PRECIPITATION RATE AND GPM.
    - B. LOCATION OF EMERGENCY IRRIGATION SYSTEM SHUT-OFF VALVE.

2 NOTES

W — EXISTING 2" IRRIGATION WATER METER.

DC — NEW DOUBLE CHECK BACKFLOW DEVICE, 2.5" WATTS 007 PER LOCAL CODES.

M V / I S — NEW BUCKNER SUPERIOR 3100-250-NO MASTER VALVE WEATHERMATIC SLFSI-S40 FLOW SENSOR

MP ROTATOR NOZZLE 90°-210°; SIZE AS SPECIFIED ON PLAN.

MP ROTATOR NOZZLE 210°-270°; SIZE AS SPECIFIED ON PLAN.

MP ROTATOR NOZZLE 360°; SIZE AS SPECIFIED ON PLAN.

M# — MP ROTATOR; M35-M3500, M3-MP 3000, M2-MP 2000, M1-MP 1000, M8-M800SR, MC-MP CORNER, MR,MS,ML- MP SIDESTRIPS AND END STRIPS

NOTE: ALL MP ROTATOR SPRAY HEADS ARE TO BE HUNTER PROS-06-PRS40-CV SPRAY BODY; PROVIDE CHECK VALVE AT LOW HEAD

HUNTER I-20-04 POP-UP ROTOR HEAD - BLUE NOZZLE PER PLAN.

15Tq(s) — INDICATES MANUFACTURER'S STANDARD CATALOGED SPACING WITHOUT WIND. ALLOWANCE THIS NUMBER IS FOR REFERENCE ONLY AND DOES NOT INDICATE ACCEPTANCE OF DEVIATION FROM DESIGN SPACING TO THIS STANDARD.

INDICATES ANGLE OF COVERAGE, FOR EXAMPLE; H=180 DEG SUB-LETTER "g" INDICATES GROUND COVER. 's' INDICATES SHRUB APPLICATION.

NETAFIM DRIP CONTROL ZONE VALVE - REFERENCE DETAILS

REMOTE CONTROL VALVE, HUNTER ICV-AS-ADJ, SIZE AS INDICATED ON PLANS

HUNTER HQ-33-DRC QUICK COUPLING VALVE WITH HK-33 KEY

MANUAL VALVE- SIZE OF MAINLINE

/ # | # — ZONE IDENTIFICATION; ZONE SIZE IN GALLONS PER MINUTE; VALVE SIZE THIS ZONE

/ # | # — ZONE IDENTIFICATION; ZONE SIZE IN GALLONS PER MINUTE; VALVE SIZE THIS ZONE

HATCH PATTERN INDICATES BED/TURF AREAS TO BE INCLUDED THIS ZONE

DRIP ZONE I.D. — DRIPLINE; NETAFIM TLHCVR11-18 FOR SURFACE PLANTING BEDS, ROWS SPACED AT 18 INCHES; NETAFIM TLHCVR7-12 FOR SUBSURFACE TURF, ROWS SPACED AT 12 INCHES; NETAFIM TLHCVR7-12 FOR SLOPES GREATER THAN 3:1

DRIP SUPPLY LINE, SCH 40 PVC, SIZE PER PLAN.

BBL — TREE BUBBLER ASSEMBLY ON 6" POP UP

C — CONTROLLER - WEATHERMATIC SLW96DM TWO-WIRE WITH DM EXPANSION MODULE, SLWMSS CABINET, WIRELESS COMMUNICATION HUB, LIMITLESS SL-AIRCARD, AND FLOW. FINAL LOCATION IS TO BE DETERMINED AFTER CONSULTING WITH LANDSCAPE ARCHITECT.

W — WAETHERMATIC SLW5 - WIRELESS RAIN/FREEZE SENSOR. FINAL LOCATION IS TO BE DETERMINED AFTER CONSULTING WITH LANDSCAPE ARCHITECT.

MAIN LINE - USE SCH-40 PVC PIPE, SIZE AS INDICATED ON PLANS

1-1/2" — LATERAL LINE - USE CLASS 315 ON 1/2" PIPE AND CLASS 200 IPS PVC ON 3/4" AND LARGER PIPE. DO NOT DEVIATE ON SIZING WITHOUT CONSULTING WITH PROJECT DESIGNER.

SLEEVE - USE TWO (2) SIZES LARGER THAN SPRINKLER PIPE DESIGNATED FOR CROSSING PAVING ON ALL LATERAL LINES. USE SCH-40 PVC PIPE, VALVE WIRING MAY BE RUN IN THE SAME SLEEVES.

NOTE: REFER TO SHEET LI 2.01 to LI 2.03 FOR DETAILS

FIELD LOCATE BY STAKING, THE CONTROLLER, WATER METER, BACKFLOW DEVICE, MASTER VALVE AND FLOW SENSOR FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

1 LEGEND

STATEMENT OF IRRIGATION DESIGN STANDARDS CONFORMITY:

This plan is complete and conforms to the design and installation parameters of the irrigation design and equipment standards set out in 35-510(j) and 35-511(c)(6) of the City of San Antonio Unified Development Code.

Paul J. Radlet TX LI # 12574

SPECIAL NOTES:

1. THE IRRIGATION CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE MANDATED IRRIGATION ORDINANCES AND CODES AND WILL SECURE ALL REQUIRED PERMITS.
2. ALL WIRES, CONTROL VALVES, AND PRESSURIZED WATER SUPPLY LINES SHALL NOT BE LOCATED WITHIN THE EXISTING ROW OR OUTSIDE PROPERTY BOUNDARIES.

811.

TBG

landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
tbgpartners.com

STATE OF TEXAS — PAUL J. RADLET — 12574 — REGISTERED LANDSCAPE ARCHITECT — 08.05.19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

issue date
november 8, 2019

designed: pra
drawn: wor
reviewed: pjr

sheet title
irrigation notes & legend

sheet
LI 1.00

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NORTH

0 5' 15' 30' 60'
SCALE: 1"=30'

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TBG

landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
tbgpartners.com

STATE OF TEXAS
PAUL J. RADLET
12574
08.05.19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

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issue date
november 8, 2019

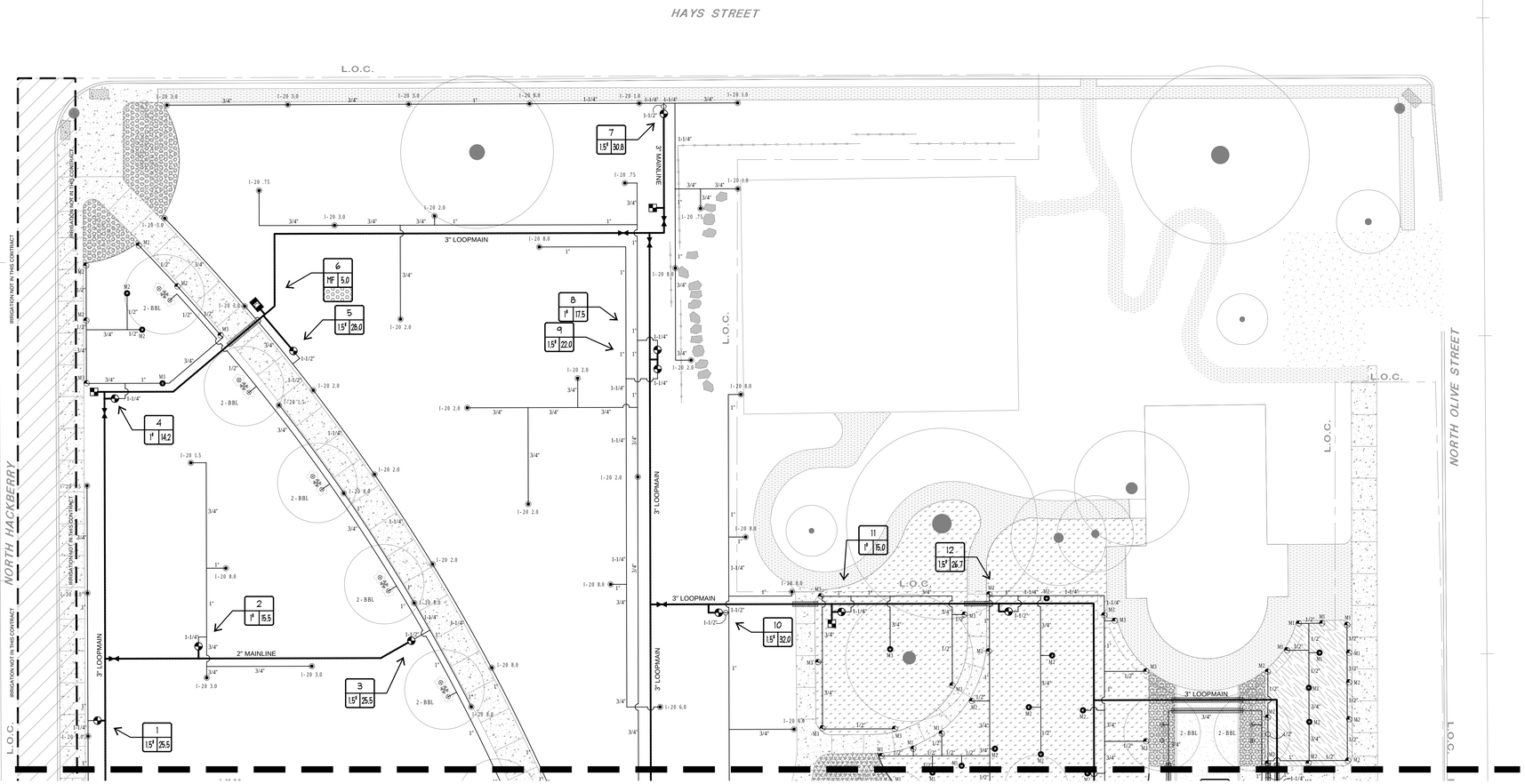
designed: pra
drawn: wor
reviewed: pjr

sheet title
exiting irrigation system equipment

sheet
LI 1.01

NOTE:
1. INSTALL LARGE DISC FILTER AND ISOLATION VALVE DIRECTLY UPSTREAM OF ALL CONTROL VALVES
2. FOLLOW INSTALLATION ORDER AS SHOWN BELOW

FLOW → MAINLINE — F FILTER & ISOLATION VALVE — CZ CONTROL ZONE/VALVE — TO ZONE



MATCHLINE: REF. 1/LI 1.03

NORTH

0 5' 10' 20' 40'
SCALE: 1"=20'

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san antonio, tx 78215

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STATE OF TEXAS
PAUL J. RADLET
12574
08.05.19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

issue date
november 8, 2019

designed: pra
drawn: wor
reviewed: pjr

sheet title
irrigation plan

sheet
LI 1.02

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MATCHLINE: REF. 1/LI 1.02

NOTE:
1. INSTALL LARGE DISC FILTER AND ISOLATION VALVE DIRECTLY UPSTREAM OF ALL CONTROL VALVES
2. FOLLOW INSTALLATION ORDER AS SHOWN BELOW

FLOW → MAINLINE — F FILTER & ISOLATION VALVE — CZ CONTROL ZONE/VALVE — TO ZONE

NORTH HACKBERRY

NORTH OLIVE STREET

L.O.C.

IRRIGATION NOT IN THIS CONTRACT

3" LOOPMAIN

2" MAINLINE

REMOVE PUMP STATION. ADD NEW DOUBLE CHECK AND MASTER VALVE & FLOW SENSOR

NEW CONTROLLER LOCATION TO BE DETERMINED. COMBINE EXISTING CONTROLLER ZONES WITH NEW CONTROLLER.

CONNECT TO EXISTING SYSTEM MAINLINE LOOP. REF. LI 1.01 FOR EXISTING MAINLINE ROUTING AND ADJUSTMENTS

MATCHLINE: REF. 1/LI 1.04

NORTH

0 5' 10' 20' 40'
SCALE: 1"=20'

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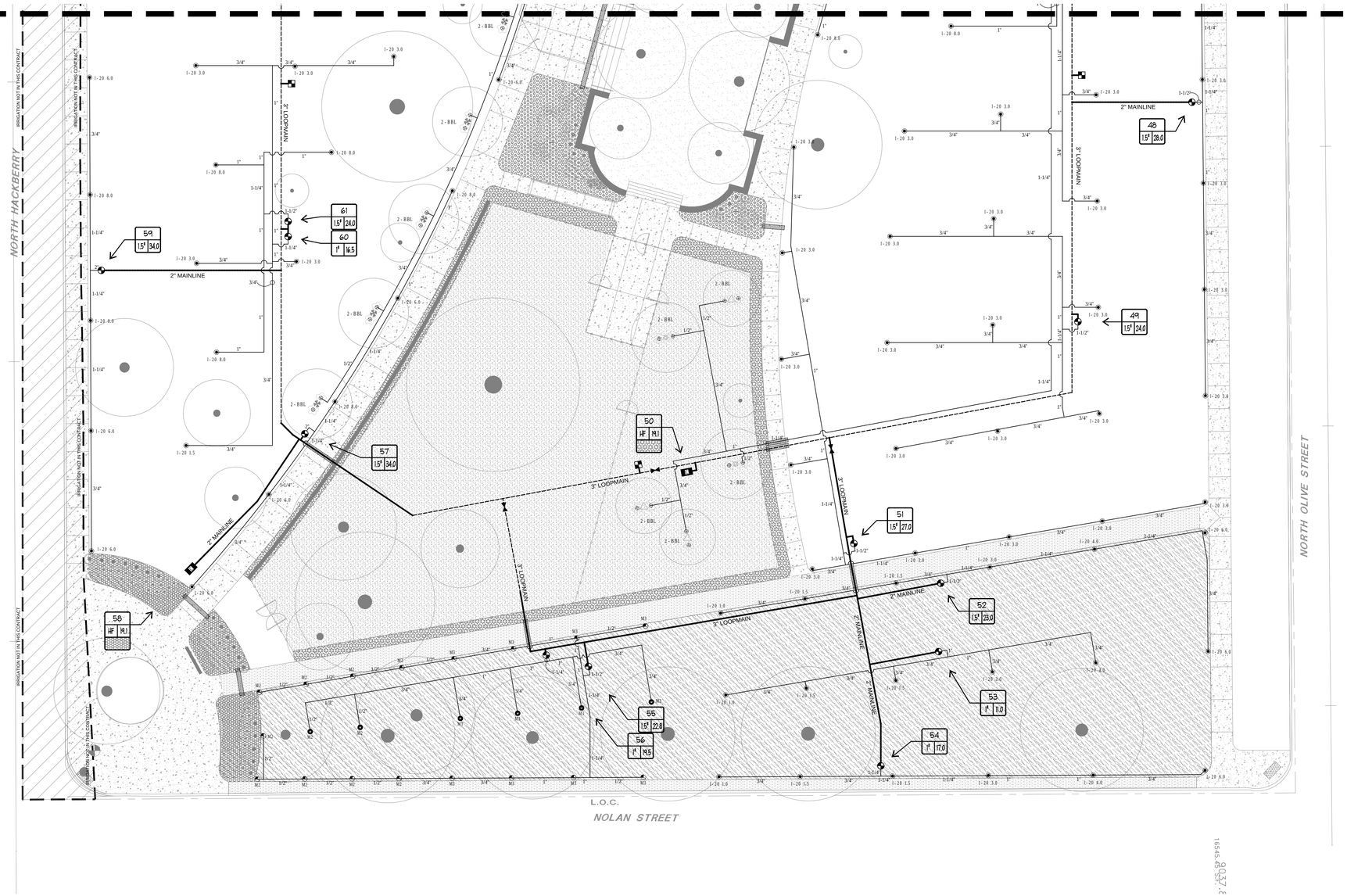
sheet title
irrigation plan

sheet
LI 1.03

NOTE:
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2. FOLLOW INSTALLATION ORDER AS SHOWN BELOW

FLOW → MAINLINE → F FILTER & ISOLATION VALVE → CZ CONTROL ZONE/VALVE → TO ZONE

MATCHLINE: REF. 1/LI 1.03



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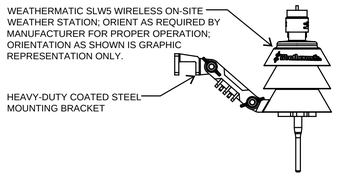
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sheet title
irrigation plan

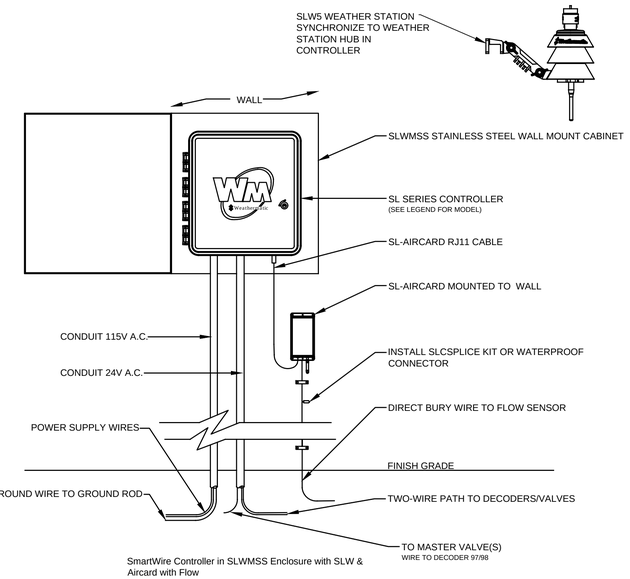
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LI 1.04

NORTH
0 5' 10' 20' 40'
SCALE: 1"=20'

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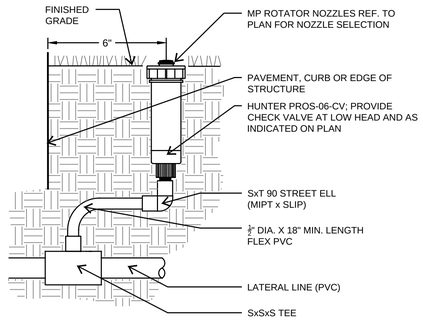


14 WEATHER SENSOR

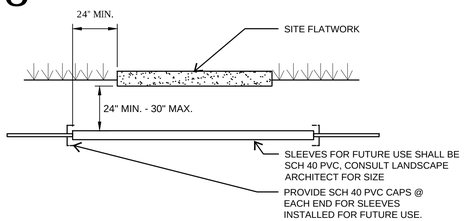


SmartWire Controller in SLWMSS Enclosure with SLW & Aircard with Flow

11 IRRIGATION CONTROLLER

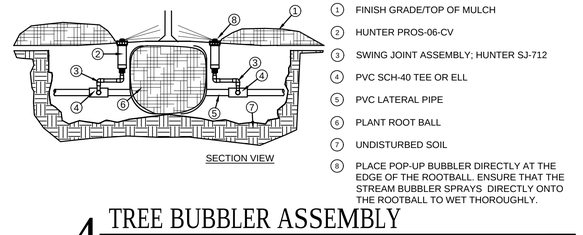


8 MP ROTATOR ON POP-UP SPRAY



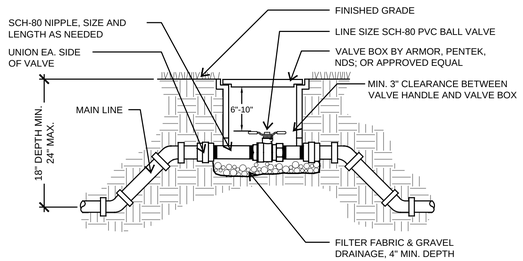
NOTE:
1. PROVIDE DIMENSIONED LOCATIONS OF ALL SLEEVES ON RECORD DRAWINGS.
2. NEW SLEEVE INSTALLATIONS TO BE MARKED ON BOTH SIDES OF THE STREET WITH
3. ALL NEW SLEEVES INSTALLED SHALL BE TWICE THE DIAMETER OF PIPE TO BE ACCOMMODATED.
4. MAINLINE SLEEVES SHALL HAVE AN ADDITIONAL 2" SCH-40 PVC SLEEVE FOR WIRES.

7 IRRIGATION SLEEVE

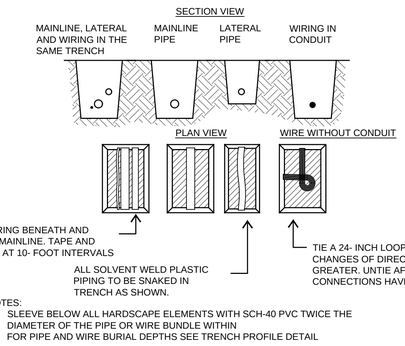


4 TREE BUBBLER ASSEMBLY

SECTION

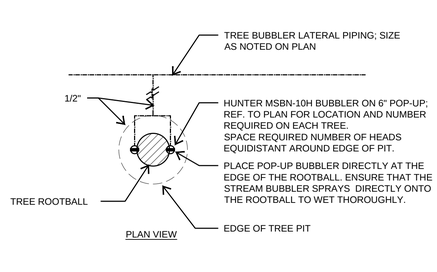


3 MANUAL ISOLATION VALVE



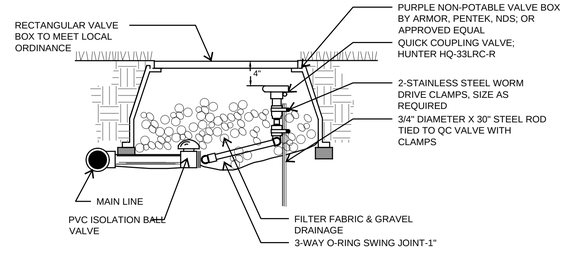
NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCH-40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE TRENCH PROFILE DETAIL

13 TRENCH ORGANIZATION

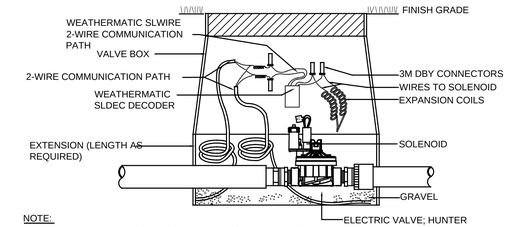


10 TREE BUBBLER ASSEMBLY

PLAN

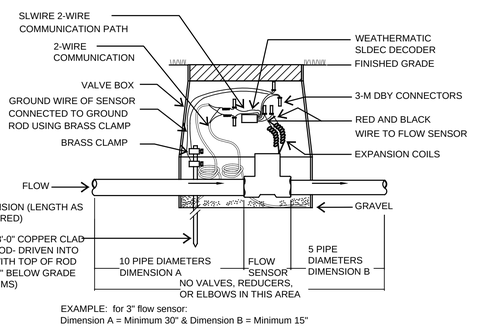


6 QUICK COUPLER VALVE



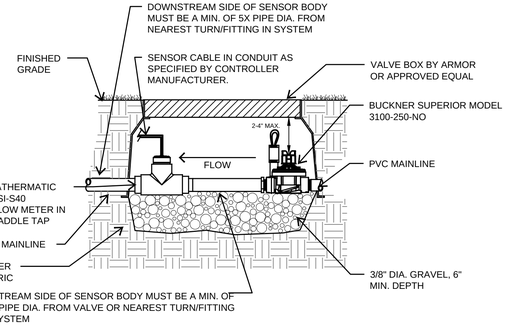
NOTE:
WIRES MUST EXTEND 12" ABOVE VALVE BOX FOR SERVICE.

2 ZONE VALVE WITH DECODER

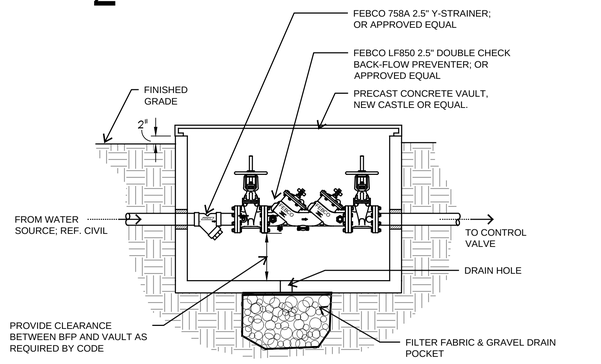


EXAMPLE: for 3" flow sensor:
Dimension A = Minimum 30" & Dimension B = Minimum 15"

9 FLOW SENSOR INSTALLATION

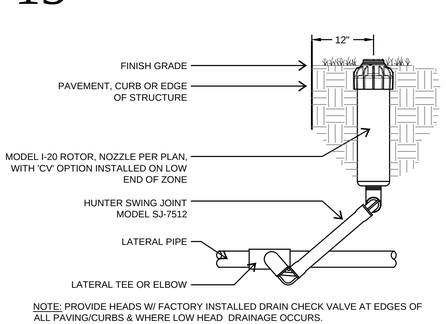


5 FLOW SENSOR AND MASTER VALVE



1 BACKFLOW AND VAULT

12 I-20 ROTOR



NOTE: PROVIDE HEADS W/ FACTORY INSTALLED DRAIN CHECK VALVE AT EDGES OF ALL PAVING/CURBS & WHERE LOW HEAD DRAINAGE OCCURS.

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LICENSED LANDSCAPE ARCHITECT
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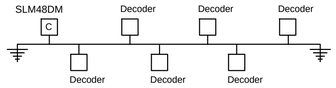
designed: pra
drawn: wor
reviewed: pjr

sheet title
irrigation details

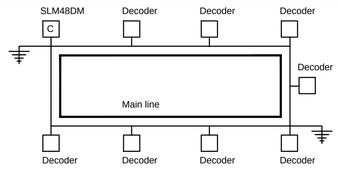
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LI 2.01

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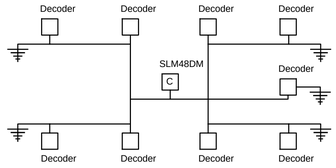
STRAIGHT RUN



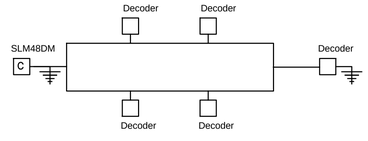
COMPLETE LOOP



STAR



COMBINATION



6 TWO-WIRE PATH OPTIONS

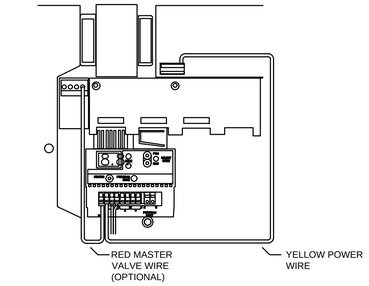
Straight line configuration, i.e. wire distance to furthest decoder, no loop:

Wire Size (Guage)	#18	#16	#14	#12
Wire Length (ft)	1,000	2,000	4,000	6,000
Wire Length (m)	300	600	1,200	1,800

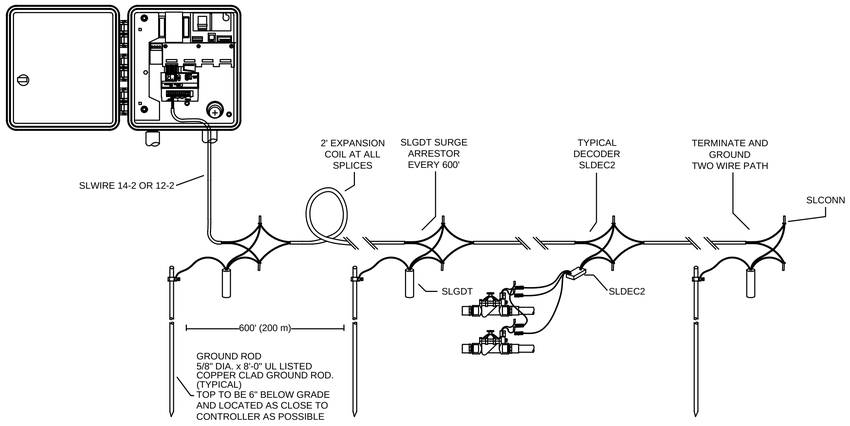
Loop Configuration, i.e. wire distance to the furthest decoder in the loop:

Wire Size (Guage)	#18	#16	#14	#12
Wire Length (ft)	2,000	4,000	10,000	10,000
Wire Length (m)	600	1,200	3,000	3,000

Maximum total wire path length is 10,000 ft. (3,000 m).



5 SMARTWIRE MODULE



4 TWO-WIRE SURGE ARRESTOR & WIRE RUN

TWO-WIRE NOTES:

1. Specific wire polarity is required. Maintain red and black wire polarity throughout installation.
2. Maintain independent wire path for each controller. No splicing or joining wire paths for multiple controls.
3. Up to three independent wire paths may be run for each SLM48DM.
4. Maximum distance from SLDEC decoders to remote control valve not to exceed 100' (30,5m).
5. Each 2-wire run may be laid out in straight run, complete loop, star, or combination layouts as shown in details. Always terminate and ground each leg of the wire path using manufacturer's recommended grounding methods.
6. Use a continuous loop wire path whenever possible to provide the best communication and power path for the system. Looping provides a redundant path for the power and signal allowing the system to continue operation in the event the wire path is cut.
7. Mark each zone number on the SLDEC decoder. For multi-valve decoders record the zone in order of wire color code: orange, yellow, green, and blue.
8. Mark all zone numbers and decoder locations on the as-built plan for final submittal.
9. Secure all Red and Black 2-wire connections using only manufacturer's supplied SLCONN aluminum connectors and grease filled waterproof connectors.
10. All remote control valve wire splices shall be secured using an encapsulated, gel-filled waterproof wire connector suitable for direct burial and installed according to manufacturer's specifications.
11. Use SmartWire SLWIRE cable supplied by Weathermatic sprinkler division of Telsco Industries to comply with the following specifications:

    a. Conductors must be soft drawn, annealed, solid copper conforming to ASTM 33.

    b. Conductor insulation must be 4/64-inch thick polyvinyl chloride (PVC) conforming to UL #493.

    c. The two insulated conductors laid in parallel and encased in a single outer jacket of 3/64-inch thick, high-density, sunlight resistant polyethylene conforming to ICEA S-61-402 and NEMA WC5, having a minimum wall thickness of .045-inch.

    d. The two conductors must be color-coded: normally one conductor red and the other black. Both conductors shall be the same size.

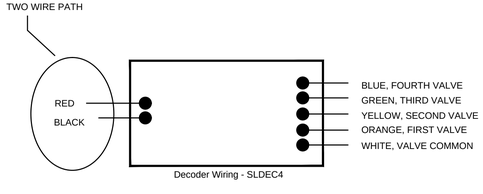
    e. The following brands meet the above specifications for direct burial Weathermatic SLWIRE12; Weathermatic SLWIRE14.

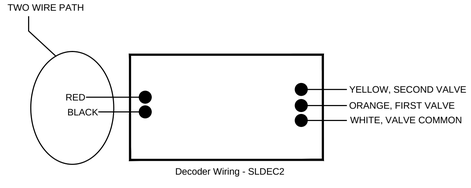
12. Wire sizing and maximum distance shall not exceed manufacturer's recommendations to avoid voltage loss and insure proper operation of the system.
13. All 2-wire paths under hardscape surfaces shall be sleeved and include no splices of the 2-wire path within 5' of sleeves. Secure a 2' (0,6m) expansion loop in the two-wire path at each change of direction and entry and exit of sleeve locations during wire installation. Release the expansion loops prior to direct burial.
14. Install one SLGDT surge arrestor at the following locations along the 2-wire path: within 25' (7.5m) of each controller, the farthest distance on the 2-wire path from the controller, every 600' along the wire path, at any independent branch termination greater than 50' (15m) from than main 2-wire path.
15. Connect each SLGDT to an 8' copper clad UL approved grounding round or other approved grounding method to obtain 12 ohms or less resistance. Use CADWELD TM permanent welded, low-resistance connection to assure best grounding performance. Consult ASIC specification 100-2002 for additional grounding specifications for appropriate for local soil conditions.
16. Use care in stripping all wire connections to avoid damage to the 2-wire shield and red and black wire path. Remove and discard any damaged 2-wire sections and repair using two SLCONN splice kits.
17. Use expansion coils on the red and black wires at each decoder installation. No expansion coils are necessary for the SLGDT.
18. Adhere to all local and national building and electrical codes.

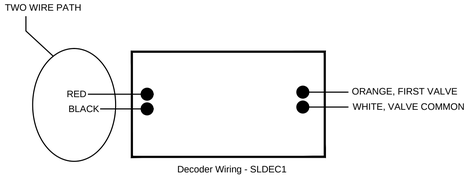
-END-

3 WEATHERMATIC INSTALLATION NOTES

2 TWO-WIRE PATH GROUNDING/SURGE







1 DECODER WIRING OPTIONS

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san antonio, tx 78215

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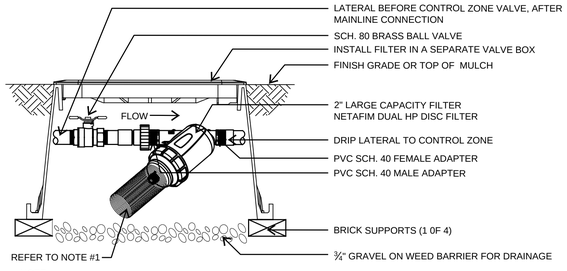
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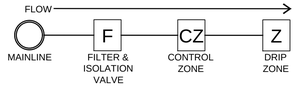
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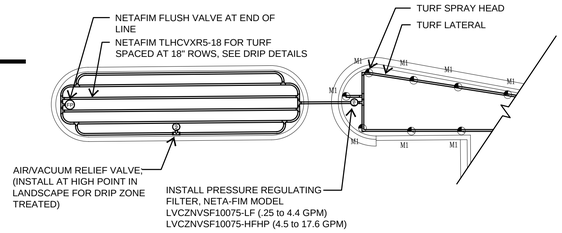
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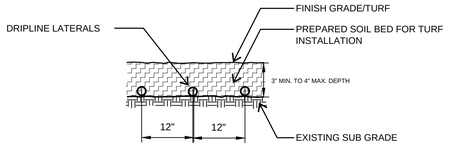
NOTE:
1. FILTER ASSEMBLY TO BE INSTALLED WITH SCREEN DIRECTION FACING A 45° DOWNWARD ANGLE WITH ENOUGH SPACE TO REMOVE SCREEN FOR MAINTENANCE. SOME APPLICATIONS MAY REQUIRE VALVE BOX EXTENSIONS TO ACHIEVE ACCEPTABLE SCREEN CLEARANCE.
2. FOLLOW INSTALLATION ORDER AS DESCRIBED BELOW



11 LARGE CAPACITY DISC FILTER



9 TURF DRIP ON MP ROTATOR ZONE



NOTE: PER NETAFIM MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL NOT EXCEED 12" SPACING BY MORE THAN 15%. SPACING WILL VARY DEPENDING ON WIDTH OF AREA BEING IRRIGATED.

8 TURF DRIP

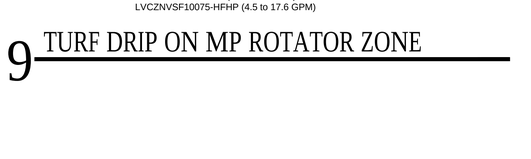
1.) DRIP LINE SHALL BE BURIED 3" TO 5" BELOW FINISHED SOIL GRADE IN PLANTING BEDS AFTER PLANTING AND BEFORE MULCH AND 4" TO 6" BELOW FINISHED GRADE IN TURF AREAS.
2.) STAGER EMITTER SPACING IN PARALLEL ROWS TO CREATE TRIANGULAR WETTING PATTERN.
3.) ALL DRIP LINE SHALL BE SECURED USING SOIL STAPLES AS SUPPLIED BY THE MANUFACTURER SPACED A MAX. OF 3' ON CENTER.
4.) DRIP LATERALS SHOWN ON THE PLANS ARE USED TO INDICATE ZONING SIZES AND RELATIONSHIPS. INSTALLATION OF DRIP ZONES SHALL FOLLOW ONE OF THE TWO METHODS DESCRIBED IN DTLS. 2/3-LI 2.2. AND NETAFIM'S RECOMMENDED INSTALLATION SPECIFICATIONS.
5.) NETAFIM HCVXR SERIES DRIP LINE SHALL BE USED AS FOLLOWS;
TURF AREAS; TLHCVXR7-12, ROWS SPACED AT 12 INCHES
BED AREAS; TLHCVXR11-18, ROWS SPACED AT 18 INCHES
BED AREAS WITH SLOPE 3:1 OR MORE; TLHCVXR7-12
6.) WHEN CONFLICTS OCCUR BETWEEN THESE DRAWINGS AND THE MANUFACTURER'S SPECIFICATIONS DEFER TO THE MANUFACTURER'S RECOMMENDED SPECIFICATIONS.
7.) EACH DRIP ZONE SHALL HAVE A DRIP SYSTEM OPERATION INDICATOR, AS MANUFACTURED BY NETAFIM. INSTALL PER NETAFIM RECOMMENDATIONS.

PROPER SIZING OF SUPPLY AND EXHAUST HEADERS
(17MM HCVXR SERIES DRIPLINE)

TOTAL ZONE FLOW	PIPE SIZE
UP TO 5 GPM	1/2" SCH 40 PVC or 1/2" CLASS 315 PVC
5.1 TO 8 GPM	3/4" CLASS 200 PVC
8.1 TO 13 GPM	1" CLASS 200 PVC
13.1 TO 22 GPM	1-1/4" CLASS 200 PVC
22.1 TO 31 GPM	1-1/2" CLASS 200 PVC

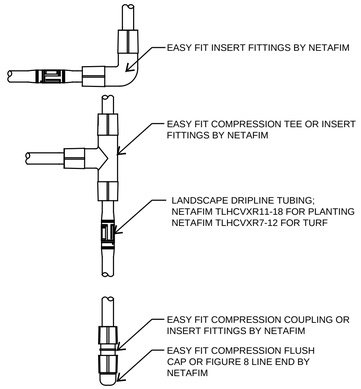
NOTE: A 45 PSI PRESSURE REGULATOR IS RECOMMENDED TO OBTAIN MAXIMUM RUN LENGTHS AND MAXIMIZE ZONE SIZE WHEN INSTALLING HCVXR SERIES DRIPLINE.

10 DRIP DESIGN NOTES

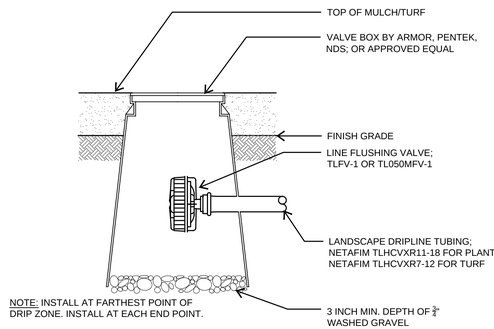


NOTE TO DESIGNER:
1. LOCATE INDICATOR STAKE AT THE FARTHEST AND/OR HIGHEST POINT ON THE ZONE.

7 OPERATION INDICATOR

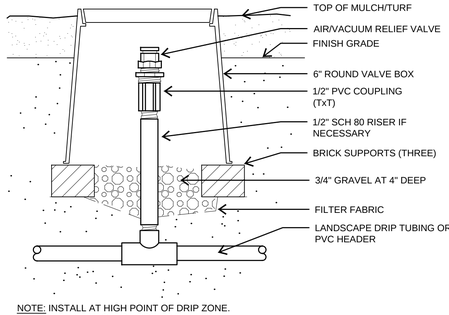


6 DRIPLINE FITTINGS



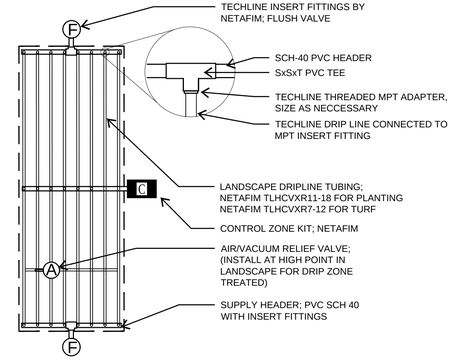
NOTE: INSTALL AT FARTHEST POINT OF DRIP ZONE. INSTALL AT EACH END POINT.

5 DRIPLINE FLUSH VALVE

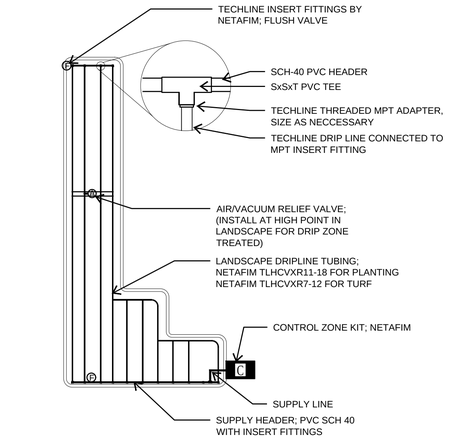


NOTE: INSTALL AT HIGH POINT OF DRIP ZONE. IF MORE THAN TWO HIGH POINTS IN A ZONE, INSTALL AT EACH HIGH POINT.

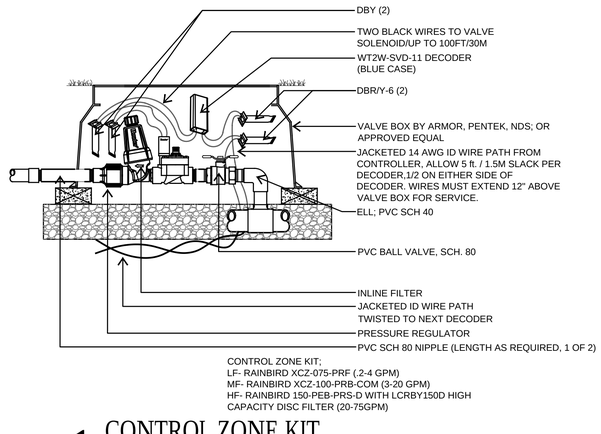
4 AIR RELIEF VALVE



3 DRIPLINE INSTALLATION (CENTER FEED)



2 DRIPLINE INSTALLATION (END FEED)



CONTROL ZONE KIT;
LF- RAINBIRD XCZ-075-PRF (.2-4 GPM)
MF- RAINBIRD XCZ-100-PRB-COM (3-20 GPM)
HF- RAINBIRD 150-PEB-PRS-D WITH LCRBY150D HIGH CAPACITY DISC FILTER (20-75GPM)

1 CONTROL ZONE KIT

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430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
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STATE OF TEXAS
PAUL J. RADLET
12574
08.05.19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

issue date
november 8, 2019

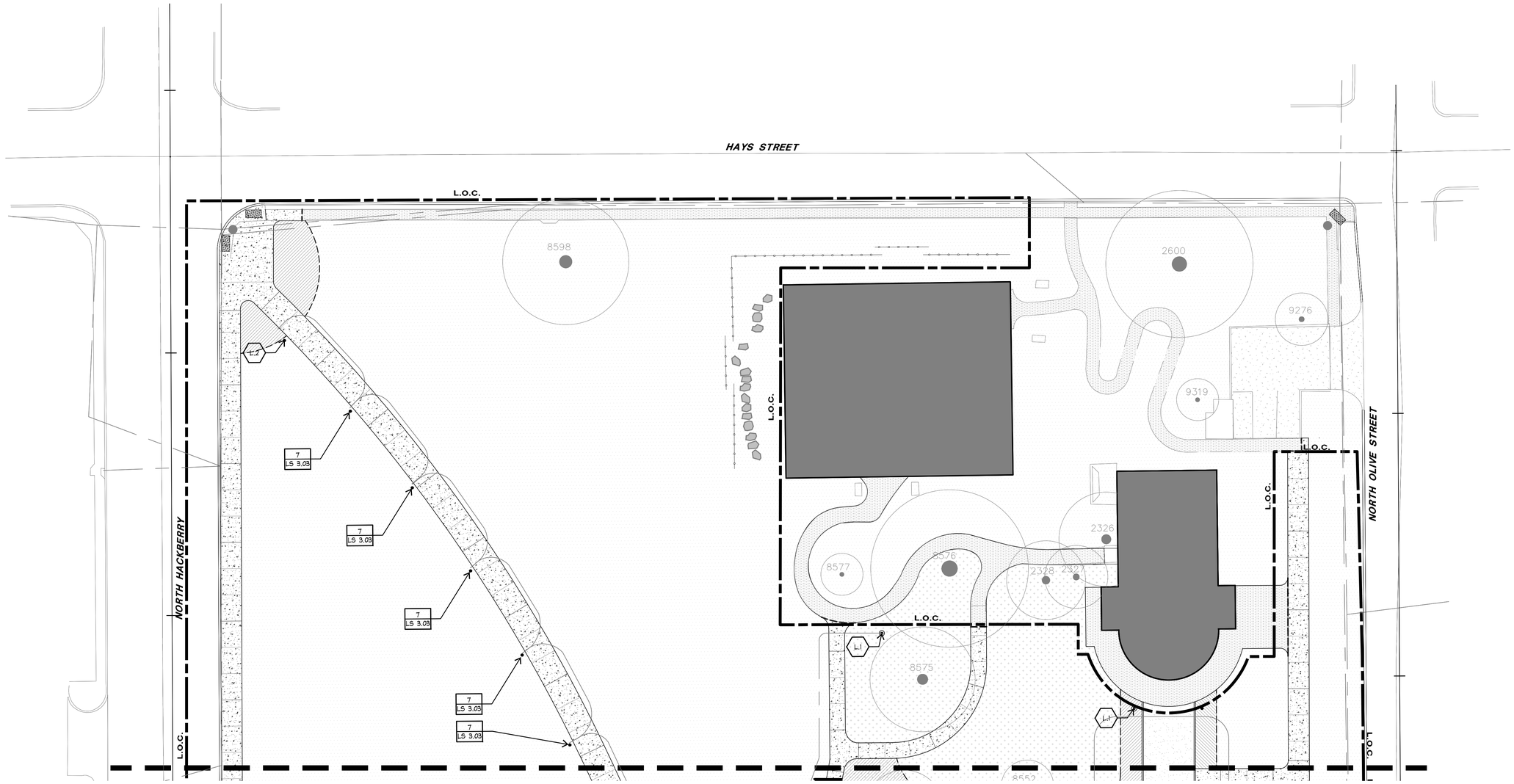
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irrigation details

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REFERENCE MECHANICAL, ENGINEERING, AND PLUMBING SHEETS FOR ELECTRICAL PLANS



MATCHLINE: REF. 1/LL 1.02

LIGHTING

PLAN

0' 10' 20' 40'
SCALE: 1"=20' NORTH

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landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
tbgpartners.com

REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEMENT
3109
STATE OF TEXAS

08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

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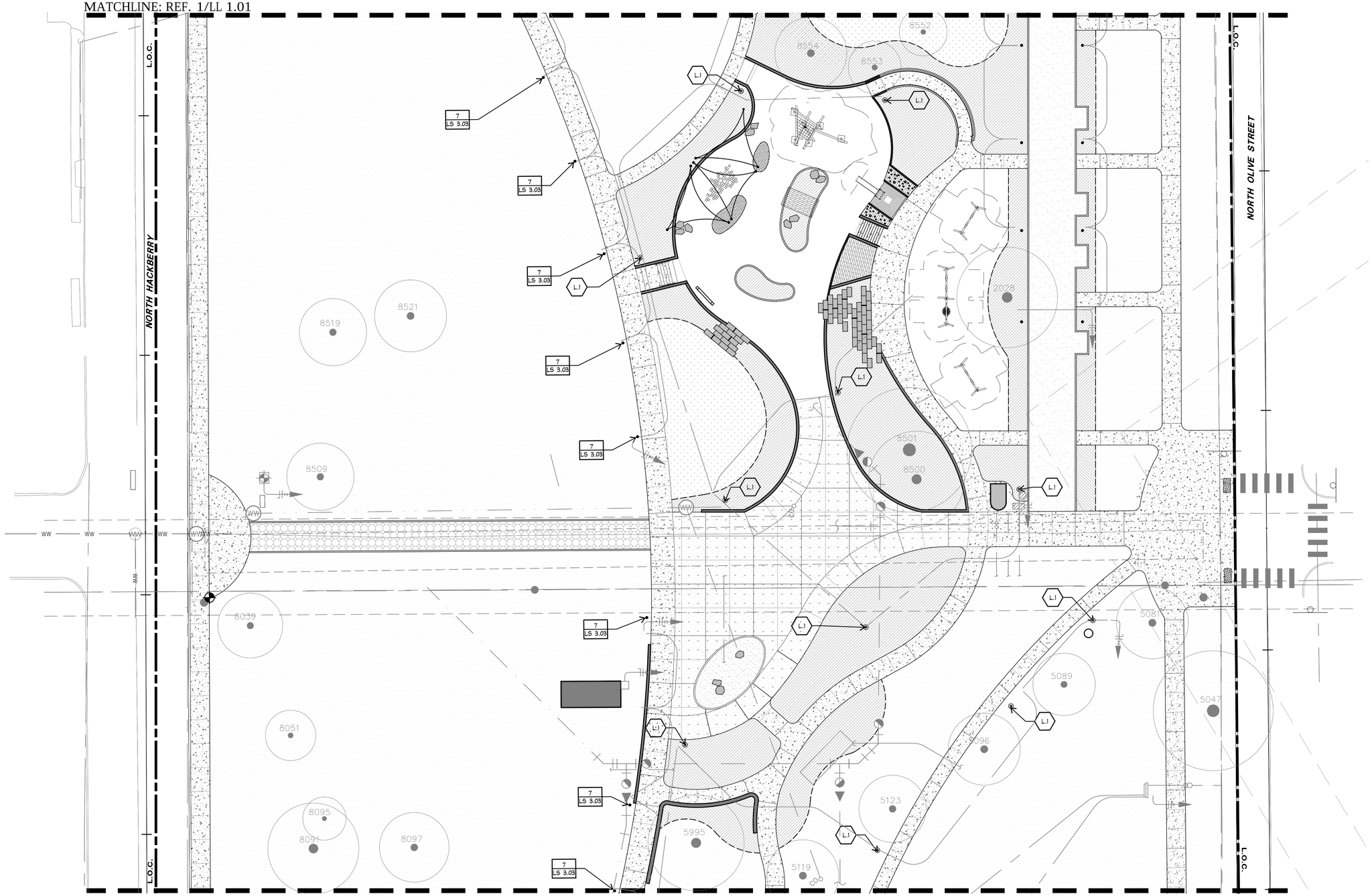
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reviewed: MF, EK

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REFERENCE MECHANICAL, ENGINEERING, AND PLUMBING SHEETS FOR ELECTRICAL PLANS

MATCHLINE: REF. 1/LL 1.01



MATCHLINE: REF. 1/LL 1.03

LIGHTING

PLAN

0' 10' 20' 40'
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landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
tbgpartners.com

REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEMENT
3109
STATE OF TEXAS
08/05/19

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City of San Antonio
San Antonio, Texas

project number
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november 8, 2019

designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
lighting plan

sheet
LL 1.02

REFERENCE MECHANICAL, ENGINEERING, AND PLUMBING SHEETS FOR ELECTRICAL PLANS

MATCHLINE: REF. 1/LL 1.02



LIGHTING

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landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
tbgpartners.com

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SARAH ELAINE FLEMING
3109
STATE OF TEXAS

08/05/19

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San Antonio, Texas

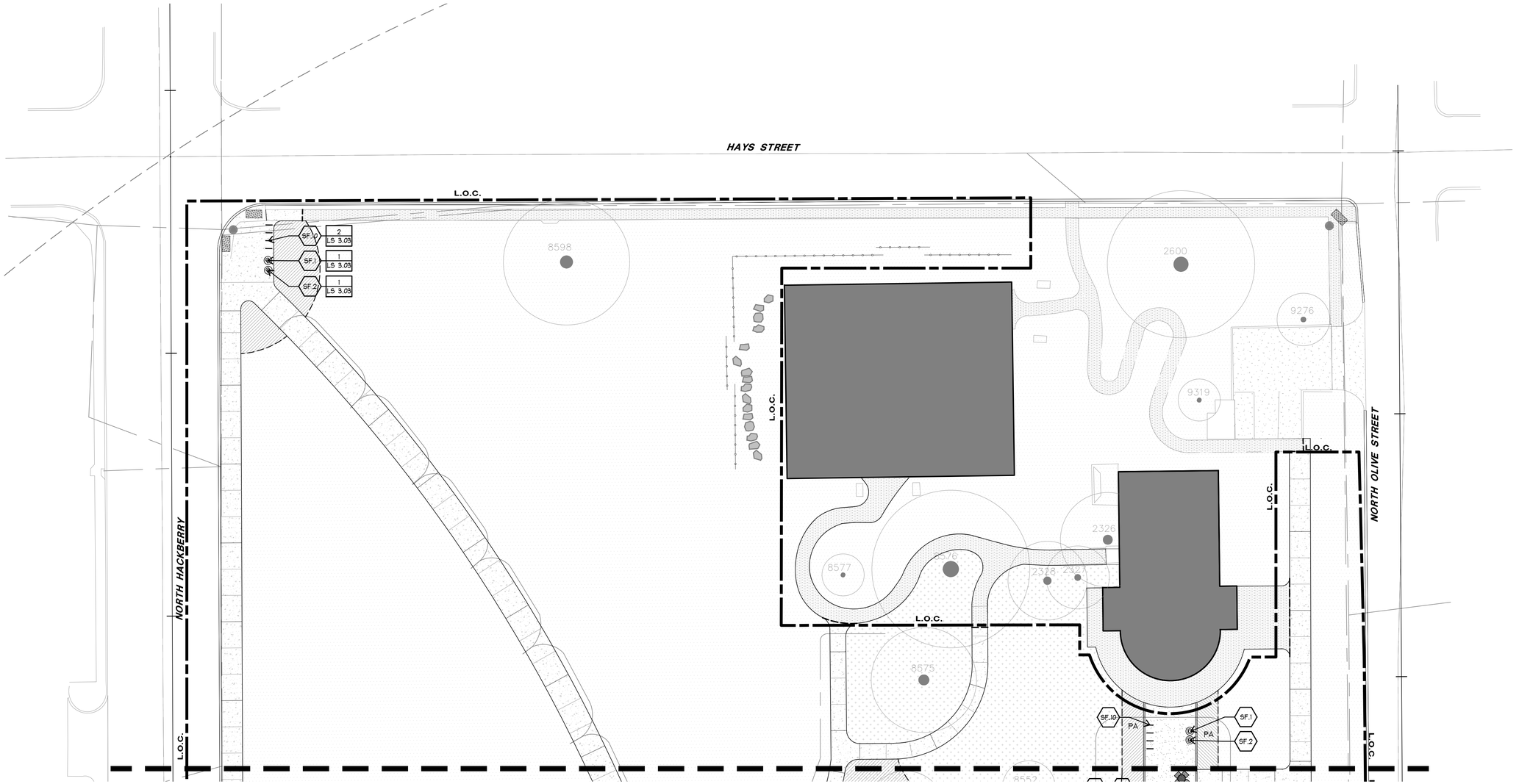
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A18096

issue date
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MATCHLINE: REF. 1/LF 1.02

FURNISHINGS

PLAN

0' 10' 20' 40'
SCALE: 1"=20' NORTH

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landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
tbgpartners.com

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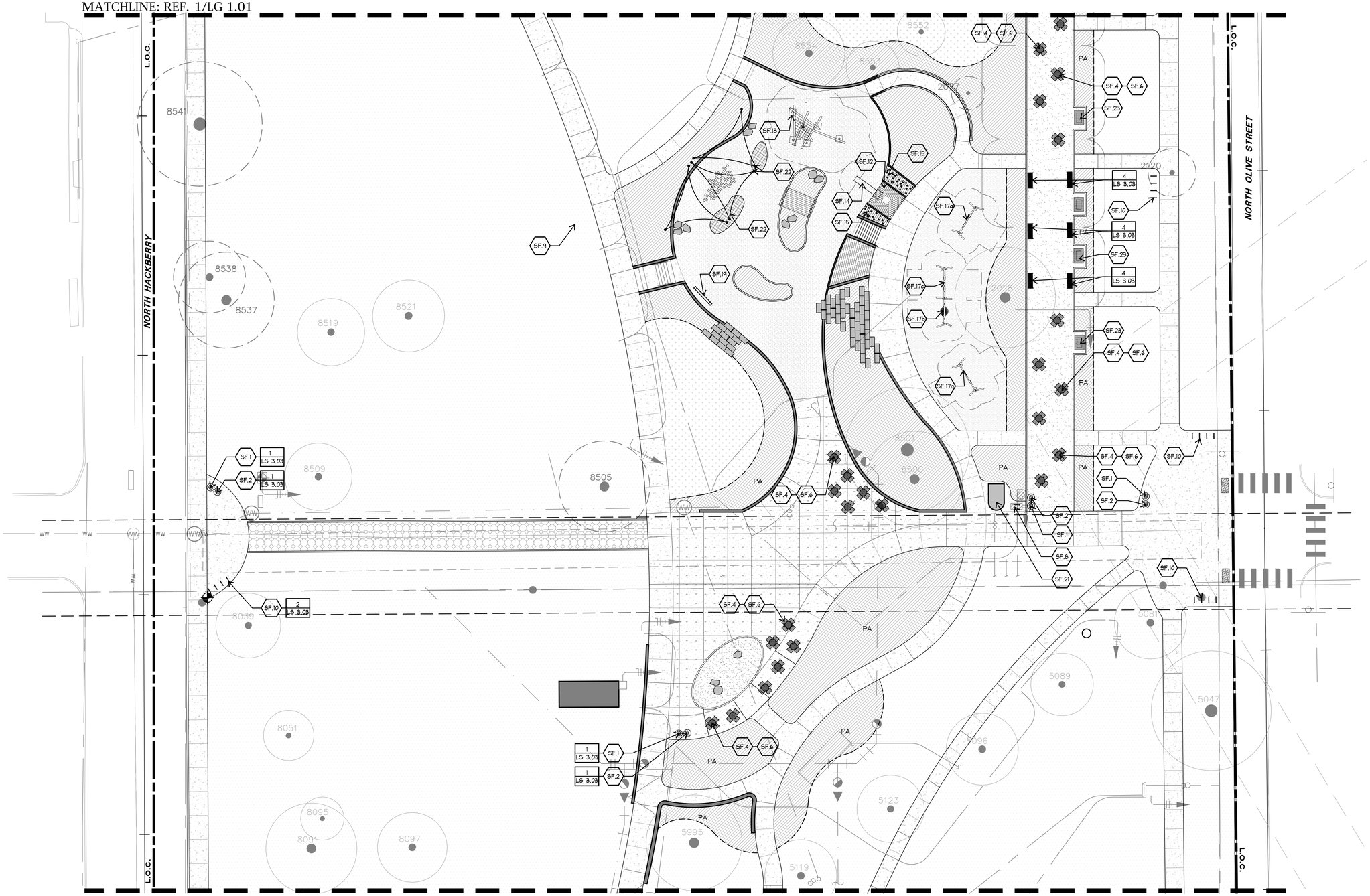
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designed: AB, MD, MF, ID
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reviewed: MF, EK

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MATCHLINE: REF. 1/LG 1.01



MATCHLINE: REF. 1/LF 1.03

FURNISHINGS

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landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
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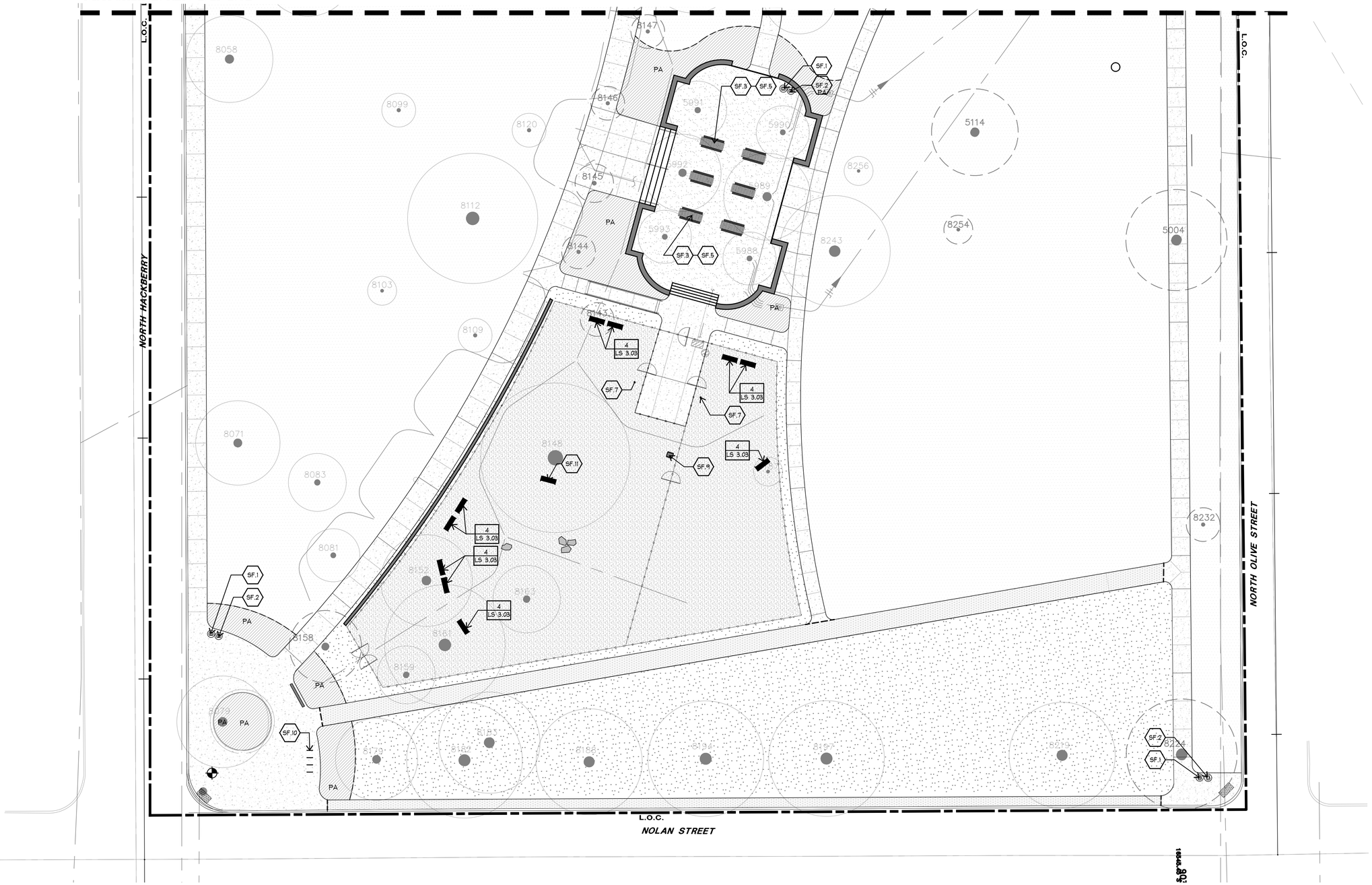
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furnishings plan

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FURNISHINGS

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furnishings plan

sheet
LF 1.03

STRUCTURAL NOTES

1000 COORDINATION

A. The Contractor shall compare the Architectural, Structural, Mechanical, Electrical, Plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.

B. Only larger sleeve openings and framed openings in structural framing component members are indicated on the Structural Drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to Mechanical, Electrical and Plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the Structural Drawings, but required as noted above, shall be submitted to the Engineer for review.

C. Refer to Architectural, Mechanical, Electrical and Plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.

D. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.

E. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.

F. The details designated as "Typical Details" apply generally to the Structural Drawings in all areas where conditions are similar to those described in the details.

G. All dimensions and conditions of existing construction shall be verified at the job site prior to the preparation of shop drawings. Differences between existing construction and that shown on the Structural Drawings shall be referred to the Architect. Differences shall also be clouded on the shop drawings.

H. All structural elements of the project have been designed by the Engineer to resist the required Code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the Contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.

I. The Contract Structural Drawings and Specifications represent the finished structure, and except where specifically shown do not indicate the means or methods of construction. The Contractor and their Sub-Contractors shall supervise and direct the Work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all OSHA guidelines. The Engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the Work, for the acts or omissions of the Contractor, Subcontractors, or any other person performing any of the Work, or for the failure of any of these persons to carry out the Work in accordance with the Structural Contract Documents.

J. Where conflict exists among the various parts of the Structural Contract Documents, Structural Drawings, General Notes, and Specifications, the strictest requirements, as indicated by the Engineer, shall govern.

K. Periodic site observation by field representatives of Intelligent Engineering Services, LLP (IES) is solely for the purpose of determining if the Work is proceeding in accordance with the Structural Contract Documents. This limited site observation is not intended to be a check of the quality or quantity of the Work, but rather a periodic check in an effort to inform the Owner against defects and deficiencies in the work of the Contractor.

1020 CODES

A. The General Building Code used as the basis for the structural design is as follows:

2018 International Building Code with City of San Antonio Amendments

1030 IBC 2015 DESIGN LOADS

1. Live Loads

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATED (lbs.)
Restrooms	60	2000

1100 SUBMITTALS

A. Shop drawings shall be prepared for all structural items and submitted for review by the Engineer. Structural Drawings shall not be reproduced and used as shop drawings. All items deviating from the Structural Drawings or from previously submitted shop drawings shall be clouded.

B. Contractor shall review shop drawings for compliance with the Structural Drawings and shall certify that they have done so by a stamp noting that the drawings have been "Approved" and which bears the signature (or initials) of an authorized representative of the Contractor and the date. Submittals which do not reflect the Contractor's approval, signature and date will be returned without review.

C. Contractor shall be responsible for delays caused by rejection of inadequate shop drawings.

D. where review and return of shop drawings is required or requested, the Engineer will review each submittal and, where possible, return within two weeks of receipt.

E. Corrections or comments on shop drawings or manufacturer's data sheets do not relieve the Contractor from compliance with requirements of the plans and specifications. Engineer's review is for general conformance with the requirements of the Structural Drawings. Contractor is responsible for confirming and correcting all quantities and dimensions, selecting fabrication processes and techniques of construction, and coordinating the work with that of all other contractors.

F. Refer to individual sections for specific submittal requirements.

G. Contractor shall submit electronically in pdf format. Submittals shall be generated electronically and will be commented upon electronically as to maintain clarity of the image file. Scans of hard copy submittals shall be legible, full size scans. All illegible scans or scans of contractor comments on reduced size prints will be rejected. Contractor will be responsible for providing and distributing Engineer's comments to their subcontractors.

3000 CAST-IN-PLACE CONCRETE

A. Structural Concrete Code: Building Code Requirements for Structural Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.

B. Classes of Concrete

1. All concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings:

2. Concrete Mix Schedule:

Conc Class	Strength psi	Agg Type	Max Agg Size	Slump Inches	Max w/c	Notes
A	2500	NWT	1/2"	2-4	---	PP Fibers
B	3000	NWT	1-1/2"	5-7	0.55	
C	3000	NWT	1"	3-5	0.55	

a. NWT" refers to normal concrete having an dry unit weight of approximately 145 pcf (ASTM C33 AGGREGATE)
b. "LWC" refers to sand lightweight concrete having an airdry unit weight not to exceed 120 PCF (ASTM C330 aggregate)
c. Where the w/c ratio is not indicated in the Concrete Mix Schedule, it shall be as necessary to meet strength requirements.
d. Where the w/c ratio is shown, it shall be adhered to regardless of the strength requirements.
e. Strength" is required compressive cylinder strength at an age of 28 days.
F. "Maximum aggregate size" is defined as first sieve with greater than 15 cumulative percent retained.

3. Mix Usage Schedule:

Description of Use	Concrete Class	Air Content
Footing	B	---
Grade Beams	B	---
Interior Slab-on-Grade	B	---
Structural Beams and Slab	B	---

C. In addition, class B concrete shall meet the following additional requirements:

1. A maximum water/cement ratio of 0.45.

2. A high-range water reducing admixture shall be added to increase the slump to 5-6". The noted slump applies before the addition of the admixture.

3. Maximum shrinkage of the concrete shall be 0.03% at 28 days as determined by ASTM C157.

4. Minimum entrained air content shall be 5 to 7 percent.

D. Provide 4 1/2 percent plus or minus 1 1/2 percent of entrained air in concrete permanently exposed to the weather and elsewhere at the contractor's option.

E. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 318, and the following:

1. Conduits and pipes running within a slab, beam, or wall shall not be larger in outside dimension than 1/3 the overall thickness of the slab, wall or beam and shall be located within the middle third of that thickness.

2. Conduits, pipes, and sleeves passing horizontally through a beam shall not be larger in outside dimension than 1/3 the overall depth of the beam and shall be located within the middle third of that depth.

3. Conduits, pipes, and sleeves passing vertically through a beam shall utilize a sleeve not larger in outside dimension than 1/3 the overall width of the beam or 6 inches (whichever is less). The sleeve shall be made of hot dip galvanized schedule 40 steel.

4. Conduits, pipes and sleeves shall not be spaced closer than three diameters or widths on center.

F. Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of discharge from the truck for information, including slump; and shall be sampled at the point of placement for acceptance of slump and air content.

G. Submittal: Submit proposed mix designs in accordance with ACI 301, chapter 4.2.3. Each proposed mix design shall be accompanied by a record of past performance or by three laboratory trial mixtures with confirmation tests

3200 CONCRETE REINFORCING

A. Concrete reinforcement for the project shall conform to the following:

1. All reinforcing steel shall be new billet steel in accordance ASTM A615, Grade 60, unless noted otherwise in the Structural Drawings or these notes.

2. Welded Reinforcing Steel. Provide reinforcing steel conforming to ASTM A706.

3. Deformed Bar Anchors. ASTM A1064 minimum yield strength 70,000 psi as noted on the Structural Drawings. Reinforcing bars shall not be substituted for deformed bar anchors.

B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards, unless noted otherwise on the Structural Drawings.

C. Welded Wire Reinforcement shall be continuous across the entire concrete surface and not interrupted by beams or girders and properly lapped one cross wire spacing plus 2".

D. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:

1. Class A lap beam top reinforcing bars at mid span.

2. Class A lap beam bottom reinforcing bars at the supports.

3. Provide Class B lap at other location pending Engineer's approval.

4. Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs.

5. Provide corner bars for all horizontal bars at the inside and outside faces of intersecting beams or walls. Corner bars are not required if horizontal bars are hooked.

6. Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top mat of steel.

E. Welding of reinforcing steel will not be permitted unless specifically shown on the Structural Drawings.

F. Heat shall not be used in the fabrication or installation of reinforcement.

G. Reinforcing steel clear cover shall be as follows:

1. Beams	1-1/2" interior, 2" exterior exposure
2. Earth-formed Grade Beams	1-1/2" top, 3" sides, 3" bottom
3. Footings	3"
4. Formed Grade Beams	1-1/2" top, 2" sides, 3" bottom
5. Slab-on-grade	3/4" top

Exterior Exposure refers to concrete exposed to earth or weather

A. Submittal: Submit shop drawings for fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315 "Details and Detailing of Concrete Reinforcement". Do not reproduce the Structural Drawings for use as shop drawings.

TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

STATE OF TEXAS
AGUSTIN TELLEZ, JR.
79341
LICENSED
PROFESSIONAL ENGINEER
August 5, 2019

INTELLIGENT ENGINEERING SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
10001 REUNION PLACE, SUITE 200 SAN ANTONIO, TEXAS 78216
210.349.9098 ie-services.com
IES JOB NO: 1182566 TBPE FIRM F-432

project
dignowity lockwood park
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City of San Antonio
San Antonio, Texas

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designed:
drawn:
reviewed:

sheet title
STRUCTURAL NOTES

sheet
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S T R U C T U R A L N O T E S

5050 POST-INSTALLED ANCHORS AND DOWELS

A. Expansion Anchors shall be one of the following:

1. Concrete:

   a. Kwik Bolt TZ, Hilti Inc.
   b. Strong Bolt, Simpson Strong-Tie
   c. Power-Stud+ SD1, DeWalt (Powers)

2. Grouted Masonry

   a. Kwik Bolt 3, Hilti Inc.
   b. Wedge-All, Simpson Strong-Tie
   c. Power-Stud+ SD1, DeWalt (Powers)

B. Screw Anchors shall be one of the following:

1. Concrete:

   a. Kwik HUS-EZ, Hilti Inc.
   b. Titen HD, Simpson Strong-Tie
   c. Wedge-Bolt+, DeWalt (Powers)

2. Grouted Masonry

   a. Kwik HUS-EZ, Hilti Inc.
   b. Titen HD, Simpson Strong-Tie
   c. Wedge-Bolt+, DeWalt (Powers)

C. Adhesive Anchors shall be one of the following:

1. Concrete:

   a. HIT-RE 500-V3, Hilti Inc.
   b. HIT-HY 200, Hilti Inc.
   c. Pure 110+, DeWalt (Powers)
   d. AC200+, DeWalt (Powers)
   e. SET 3G, Simpson Strong-Tie.

2. Grouted Masonry

   a. HIT-HY 270, Hilti Inc.
   b. SET, Simpson Strong-Tie.
   c. AC100+ Gold, DeWalt (Powers)

D. Adhesive Doweling

1. Adhesive doweling system shall be one of the following products:

   a. HIT RE 500-V3, Hilti Inc.
   b. Pure 110+, DeWalt (Powers)
   c. AC200+, DeWalt (Powers)
   d. SET 3G, Simpson Strong-Tie.

E. Install dowels in strict accordance with the adhesive manufacturer's instructions.

F. Clean out holes with compressed air after drilling per manufacturer's printed installation instructions or use manufacturer's alternate hole cleaning procedures.

G. Unless noted otherwise on the structural drawings, embedment depth shall be as required to develop full yield strength of the embedded dowels.

H. Prior to drilling holes for dowels, locate existing reinforcing steel with a Pachometer (R-Meter) or by drilling 1/4 inch diameter pilot holes. Relocate bolt holes as required to avoid existing reinforcement.

I. Anchors and dowels of the size and embedment shown on the Drawings shall be installed in accordance with the Contract Documents, the manufacturer's recommendations, and the manufacturer's current ICC ES report for the anchor. If conflicts exist between these referenced documents, the most stringent requirements shall govern.

J. The Contractor shall locate all existing reinforcing steel and other embedded items contained in the concrete using non-destructive methods and shall position anchor locations to avoid conflicts with existing embedded items. Anchor locations can be adjusted by a maximum of 1 1/2 inch from detailed locations to avoid conflicts, unless noted otherwise. Submit an as-built of anchor locations to engineer.

K. Based on field verified locations of reinforcing steel and embedded items, the Contractor shall create templates for each anchor group. Submit template dimensions for review prior to fabrication of connection plates.

L. Holes for anchors and dowels shall be drilled in a continuous operation using the bit type and size recommended by the anchor manufacturer. Diamond cored holes shall not be used unless noted otherwise on the structural drawings. Holes shall be drilled perpendicular to the concrete surface and shall not be enlarged or redirected at any point along its length. All debris shall be blown out of the holes with compressed air after drilling.

M. All abandoned holes shall be filled with non-shrink grout.

N. Holes in connection plates shall be no more than 1/16 inch larger than the anchor diameter. If larger holes are required for erection purposes, Contractor shall notify Engineer such that a plate washer size can be provided.

O. Installation of anchors and dowels shall be continuously inspected by the testing agency to ensure that holes are of specified size, and that bolts are properly installed including application of minimum installation torques.

5100 STRUCTURAL STEEL

A. Structural Steel Code: Specification for Structural Steel Buildings, American Institute of Steel Construction Inc., ANSI/AISC 360, as referenced by the General Building Code.

B. Material

1. All hot rolled steel members shall be new and conform to ASTM specification A6.

2. ASTM Specification and Grade. Clearly mark the grade on each member

3. Unless Noted otherwise on the Structural Drawings, structural steel members shall be:

   a. W-shapes shall conform to ASTM A992.

   b. Channels shall conform to ASTM A36.

   c. Angles shall conform to ASTM A36.

   d. Steel pipe shall conform to ASTM A53, Type E, Grade B.

   e. Round hollow structural shape members shall conform to ASTM A500, Grade C, Fy = 46 ksi.

   f. Square or rectangular hollow structural shape members shall conform to ASTM A500 Grade C, Fy = 50 ksi.

   g. Structural steel plate shall conform to ASTM A36.

   h. Headed stud shear connectors shall conform to ASTM A108.

   i. Deformed bar anchors shall conform to ASTM A1064.

   j. Welded reinforcing steel shall conform to ASTM A706.

   k. Any other steel shall conform to ASTM A36.

C. Fabrication

1. Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having splice(s) not shown and detailed on shop drawings will be rejected.

2. Dimensional tolerances of fabricated structural steel shall conform to Section 6.4 of the AISC Code of Standard Practice unless noted otherwise on the Structural Drawings.

3. Shop painting: Paint structural steel with one coat of manufacturer's standard red oxide primer applied at a rate to provide a uniform dry film thickness of 2.5 mils.

D. Erection

1. Erection tolerances of anchor bolts, embedded items, and all structural steel unless specified otherwise on the Structural Drawings shall conform to the AISC Code of Standard Practice.

2. Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer.

3. Contractor shall protect any unprimed structural steel from detrimental effects of corrosion, as required, until the steel is enclosed and protected by the new construction.

E. Hot dip galvanize after fabrication all structural steel items and connections permanently exposed to the weather, whether specified on the Structural Drawings or not. Such items include, but are not limited to:

1. Shelf angles and/or loose lintels

2. Parapet wall supporting members penetrating damproofing and/or roofing material

3. Window washing support members

4. Embedded plates in concrete exposed to the exterior

5. Building cladding support steel in space not air conditioned and/or exposed to moisture outside the exterior waterproofing surface if any.

6. Cooling tower framing and supports

7. Cooling tower screen support members and braces.

8. Railing exposed to weather.

9. Examine the Architectural and Structural Drawings for other items required to be hot dip galvanized. Galvanize all nuts, bolts, and washers used in connection with such steel. Field welded connections shall have welds protected with "Z.R.C. Cold Galvanizing Compound" as manufactured by Z.R.C. Company.

F. Submittal: Provide drawings showing details for fabrication and shop assembly of members, erection plans and details. Include details of connections, camber, weld profiles and sizes and spacing. Shop and erection drawings shall not be made using reproductions of the Structural Drawings.

5110 STRUCTURAL STEEL CONNECTIONS

A. Welded Connections

1. All welding shall conform to ANSI/AWS D1.1, latest edition.

2. Fillet welds with no size specified shall be 3/16 inch or minimum size required by AISC, whichever is larger.

B. Bolted connections

1. Unless noted otherwise on the Structural Drawings, bolts shall be 3/4 inch diameter and conform to ASTM F3125 Grade A325. Bolts shall be designed using values for bearing type bolts with thread allowed in the shear plane.

2. Bolts shall be tightened to "snug tight" as defined by AISC, unless noted otherwise on the Structural Drawings.

3. Bolts noted as "Slip Critical" throughout the documents shall be tightened to the Minimum Pre-tensioned amounts according to Section J of the AISC specification using one of the following methods: Turn-of-the-nut Method, Calibrated Torque Wrench, Twist-off Type Tension Control, or Direct Tension Indicators.

C. Structural steel connections not specifically detailed on the Structural Drawings shall be designed and detailed by the Contractor under the direct supervision of a Professional Engineer licensed in the State of Texas. Sealed calculations for all connections designed by the Contractor shall be submitted for the Architect's files.

D. In general, shop connections shall be bolted or welded and field connections shall be bolted.

E. If not indicated on the Structural Drawings, connections shall be designed for 55 percent of the total load capacity for the beam span shown in the beam tables in the AISC Manual, thirteenth edition.

F. Short slotted holes shall be permitted provided washers are installed in accordance with AISC requirements. Washers shall be hardened where grade A325 bolts are utilized.

G. Moment Connections

1. Where indicated, moment connections shall be designed for the scheduled moment envelope. The moment is indicated on the Structural Drawings as "(M =)".

2. If not indicated on the Structural Drawings, moment connections shall be welded to develop the full capacity of the member.

3. All welds denoted as moment connection or complete joint penetration (CJP) weld shall be ultrasonically or x-ray certified by an independent testing agency.

H. All beam shears, reactions, member forces, moments, etc. shown on the Structural Drawings are unfactored loads conforming to the requirements of AISC Allowable Strength Design (ASD).

I. All beam shears, reactions, member forces, moments, etc. shown on the Structural Drawings are factored loads conforming to the requirements of AISC Load and Resistance Factor Design (LRFD).

J. Base Plates

1. Column base plates shall be set to the elevation indicated on the Structural Drawings and leveled using shims or by double nuts on anchor bolts. Base plates shall then be grouted with a non-shrink, high strength nonmetallic grout. Tighten anchor bolts after supported members have been positioned and plumbed.

2. Hole sizes in base plates shall be oversized per AISC section J3.2. Hole sizes may be increased to the recommended maximum size listed for anchor rods in base plate table 14-2 of the 14th edition of the AISC Steel Construction Manual provided that plate washers, as required by this table, are utilized

3. Anchor rods shall be:

   a. Typical: ASTM F1554 Gr. 36.
   b. High Strength: ASTM F1554, Gr. 55, Weldable.

K. For connections not specifically addressed by these notes or the Structural Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile strength of the smaller member at the joint.

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landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

STATE OF TEXAS
AGUSTIN TELLEZ, JR.
79341
LICENSED
PROFESSIONAL ENGINEER

August 5, 2019

INTELLIGENT ENGINEERING SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
10001 REUNION PLACE, SUITE 200 SAN ANTONIO, TEXAS 78216
210.349.9098 ie-services.com
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issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

issue date
november 8, 2019

designed:
drawn:
reviewed:

sheet title
STRUCTURAL NOTES

sheet
S0.2

SPECIAL INSPECTIONS TABLES FOR STRUCTURAL ELEMENTS - 2018

SPECIAL INSPECTIONS

1. Special Inspections shall be performed in accordance with Chapter 17 of the 2018 International Building Code (IBC) by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City's building official to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all required tests and inspections listed in the following tables. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection reports to the building official and the Architect for all time spent at the site. The inspector shall bring discrepancies to the immediate attention of the General Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of that phase of the work. These special inspections are in addition to the other inspections listed in these Structural Notes or Project Specifications.

2. Where structural members and assemblies are shop fabricated, the Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to the Construction Documents and Referenced Standards, unless the fabricator is registered and approved to perform such work without special inspection.

REQUIRED SPECIAL INSPECTIONS OF CONCRETE CONSTRUCTION (IBC Table 1705.3)

SPECIAL INSPECTION TYPE	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
	CONTINUOUS	PERIODIC		
1. Inspect reinforcement, including prestressing tendons, and verify placement	--	X	ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
2. Reinforcing bar welding:			AWS D1.4 ACI 318: 26.6.4	--
a. Verify weldability of reinforcing bars other than ASTM A706	--	X		
b. Inspect single-pass fillet welds, maximum 5/16"	--	X		
c. Inspect all other welds	X	--		
3. Inspect anchors cast in concrete	--	X	ACI 318: 17.8.2	--
4. Inspect anchors post-installed in hardened concrete members				
a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	X	--	ACI 318: 17.8.2.4	--
b. Mechanical anchors and adhesive anchors not defined in 4.a	--	X	ACI 318: 17.8.2	--
5. Verifying use of required design mix	--	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	X	--	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
7. Inspect concrete placement for proper application techniques	X	--	ACI 318: 26.5	--
8. Verify maintenance of specified curing temperature and techniques	--	X	ACI 318: 26.5.3-26.5.5	1908.9
9. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs	--	X	ACI 318: 26.10.2	--
10. Inspect formwork for shape, location and dimensions of the concrete members being formed	--	X	ACI 318: 26.10.1(b)	--
11. Inspect shotcrete placement for proper application technique	X	--	ACI 318: 26.5	1908.6, 1908.7, 1908.8
12. Inspect prestressed concrete for:			ACI 318: 26.10	--
a. Application of prestressing forces	X	--		
b. Grouting of bonded prestressing tendons	X	--		
13. Inspect erection of precast concrete members	--	X	ACI 318: Ch. 26.9	--

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A/C -	AIR CONDITIONER	LLH -	LONG LEG HORIZONTAL
AB -	ANCHOR BOLT	LLV -	LONG LEG VERTICAL
ABV -	ABOVE	LO -	LOW
ACI -	AMERICAN CONCRETE INSTITUTE	LOC -	LOCATION
ADDL -	ADDITIONAL	LONG -	LONGITUDINAL
ADH -	ADHESIVE	LP -	LOW POINT
ADJ -	ADJACENT	LSH -	LONG SIDE HORIZONTAL
AEC -	ARCHITECTURALLY EXPOSED CONCRETE	LSL -	LONG SLOTTED HOLES
AESS -	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	LSV -	LONG SIDE VERTICAL
AFF -	ABOVE FINISHED FLOOR	LT -	LIGHTWEIGHT
AGGR -	AGGREGATE	LWC -	LIGHTWEIGHT CONCRETE
AHU -	AIR HANDLING UNIT		
AISC -	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	M -	MOMENT
ALT -	ALTERNATE	MAS -	MASONRY
APPD -	APPROVED	MATL -	MATERIAL
APPROX -	APPROXIMATE	MAX -	MAXIMUM
ARCH -	ARCHITECT (OR) ARCHITECTURAL	MC -	MOMENT CONNECTION(S)
		MECH -	MECHANICAL
BD -	BOARD	MEP -	MECHANICAL, ELECTRICAL, PLUMBING
B.O. -	BOTTOM OF	MEZZ -	MEZZANINE
BF -	BACK FACE	MFR -	MANUFACTURER
BFF -	BELOW FINISH FLOOR	MID -	MIDDLE
BIL -	BOTTOM INSIDE LAYER	MIN -	MINIMUM
BL -	BUILDING LINE	MISC -	MISCELLANEOUS
BLDG -	BUILDING	MTL -	METAL
BLK -	BLOCK		
BLKG -	BLOCKING	NF -	NEAR FACE
BM -	BEAM	NIC -	NOT IN CONTRACT
BOL -	BOTTOM OUTSIDE LAYER	NOM -	NOMINAL
BOS -	BOTTOM OF STEEL	NS -	NON-SHRINK
BOTT -	BOTTOM	NTS -	NOT TO SCALE
BP -	BASE PLATE		
BRDG -	BRIDGING	OC -	ON CENTER
BRG -	BEARING	OCEW -	ON CENTER EACH WAY
BRKT -	BRACKET	OD -	OUTSIDE DIAMETER (OR) OVERFLOW DRAIN
BRL -	BRICKLEDGE	OF -	OUTSIDE FACE
BSMT -	BASEMENT	OH -	OPPOSITE HAND
B TO B -	BACK TO BACK	OPNG(S) -	OPENING(S)
BTWN -	BETWEEN	OPP -	OPPOSITE
		OVS -	OVER-SIZED HOLE
C -	CAMBER (OR) COMPRESSION		
CANT -	CANTILEVER	P -	PAN
CFS -	COLD FORMED STEEL	P/C -	PRECAST CONCRETE
CG -	CENTER OF GRAVITY	PAR -	PARALLEL
CGS -	CENTER OF GRAVITY OF STRAND	PC -	PIECE
CIP -	CAST-IN-PLACE	PCF -	POUNDS PER CUBIC FOOT
CJ -	CONTROL JOINT	PEMB -	PRE-ENGINEERED METAL BUILDING
CJP -	COMPLETE JOINT PENETRATION	PERP -	PERPENDICULAR
CL -	CENTER LINE	PI -	PLASTICITY INDEX
CLG -	CEILING	PJ -	PANEL JOINT
CLR -	CLEAR (OR) CLEARANCE	PJP -	PARTIAL JOINT PENETRATION
CMU -	CONCRETE MASONRY UNIT	PL -	PLATE
COL -	COLUMN	PLF -	POUNDS PER LINEAR FOOT
C OR COMP -	COMPRESSION	PLYWD -	PLYWOOD
CONC -	CONCRETE	PREFAB -	PREFABRICATED
CONN(S) -	CONNECTION(S)	PRELIM -	PRELIMINARY
CONST -	CONSTRUCTION	PROJ -	PROJECTION
CONST JT -	CONSTRUCTION JOINT	PSF -	POUNDS PER SQUARE FOOT
CONT -	CONTINUOUS	PSI -	POUNDS PER SQUARE INCH
CONTR -	CONTRACTOR	PT -	POINT (OR) PRESSURE TREATED
COORD -	COORDINATE	PT-T -	POST-TENSION(ED)
CTSK -	COUNTER SUNK	P/E -	PRE-ENGINEERED
CVR -	COVER	PAF -	POWDER ACTUATED FASTENER
DBA -	DEFORMED BAR ANCHORS	QTY -	QUANTITY
DBL -	DOUBLE		
DEV -	DEVELOPMENT	R -	RADIUS (OR) REACTION (OR) REMAINDER
DFL -	DOUGLAS FIR LARCH	RCP -	REINFORCED CONCRETE PIPE
DIA -	DIAMETER	RD -	ROOF DRAIN
DIAG -	DIAGONAL	REINF -	REINFORCE(ING)(ED)(MENT)
DIM(S) -	DIMENSION(S)	REQ -	REQUIRE(MENT)
DKG -	DECKING	REQD -	REQUIRED
DL -	DEAD LOAD	RET -	RETAINING
DN -	DOWN	RET SYS -	RETENTION SYSTEM
DS -	DOWNSPOUT	RF -	ROOF
DTL -	DETAIL	RIS -	RISER
DVTL -	DOVETAIL	RM -	ROOM
DWG(S) -	DRAWING(S)	RND -	ROUND
DWL(S) -	DOWELS	RO -	ROUGH OPENING
DE -	DECK EDGE	RTU -	ROOF TOP UNIT
EA -	EACH	SCHED -	SCHEDULE(D)
EF -	EACH FACE (OR) EXHAUST FAN	SECT -	SECTION
EJ -	EXPANSION JOINT	SF -	SQUARE FOOT
EL -	ELEVATION	SHT -	SHEET
ELEC -	ELECTRICAL	SHTG -	SHEATHING
ELEV -	ELEVATOR	SIM -	SIMILAR
EMBED -	EMBEDMENT	SJI -	STEEL JOIST INSTITUTE
ENGR -	ENGINEER	SL -	SLOPE
EOR -	ENGINEER OF RECORD	SOG -	SLAB ON GRADE
EQ -	EQUAL (OR) EQUIVALENT	SP -	SOUTHERN PINE
EQUIP -	EQUIPMENT	SPA -	SPACE
EW -	EACH WAY	SPECD -	SPECIFIED
EXIST -	EXISTING	SPEC(S) -	SPECIFICATION(S)
EXP -	EXPANSION	SQ -	SQUARE
EXT -	EXTERIOR	SS -	STAINLESS STEEL
EXTN -	EXTENSION	SSL -	SHORT SLOTTED HOLE
		STAGG -	STAGGERED
F TO F -	FACE TO FACE	STD -	STANDARD
FABR -	FABRICATOR	STIFF -	STIFFENER
FD -	FLOOR DRAIN	STIRR -	STIRRUPS
FDN -	FOUNDATION	STL -	STEEL
FFE -	FINISHED FLOOR ELEVATION	STR -	STRAIGHT
FIN -	FINSH (OR) FINISHED	STRUCT -	STRUCTURE (OR) STRUCTURAL
FIN FL -	FINISHED FLOOR	SUBCONTR -	SUBCONTRACTOR
FL -	FLOOR	SUPT(S) -	SUPPORT(S)
FLG -	FLANGE	SW -	SHEARWALL (OR) SIDEWALK
FP -	FIREPROOF(ING)		
FRMG -	FRAMING	T -	TENSION
FS -	FAR SIDE	T.O. -	TOP OF
FT -	FOOT (OR) FEET	T&B -	TOP AND BOTTOM
FTG -	FOOTING	T&G -	TONGUE AND GROOVE
FV -	FIELD VERIFY	TEMP -	TEMPERATURE
		TERR -	TERRAZZO
GA -	GAGE (OR) GAUGE	THK -	THICK
GALV -	GALVANIZED	THRD -	THREAD(ED)
GC -	GENERAL CONTRATOR	TIL -	TOP INSIDE LAYER
GR -	GRADE	TOB -	TOP OF BEAM
GR BM -	GRADE BEAM	TOC -	TOP OF CONCRETE
		TOF -	TOP OF FOOTING
HB -	HORIZONTAL BRACE	TOJ -	TOP OF JOIST
HCA -	HEADED CONCRETE ANCHOR	TOL -	TOP OUTSIDE LAYER
HDG -	HOT DIPPED GALVANIZED	TOP -	TOP OF PIER
HDR -	HEADER	TOPC -	TOP OF PIER (PILE) CAP
HI -	HIGH	TOS -	TOP OF STEEL
HK -	HOOK	TOW -	TOP OF WALL
HL -	HOLE	TR -	TREAD
HORIZ -	HORIZONTAL	TRANSV -	TRANSVERSE
HP -	HIGH POINT	TYP -	TYPICAL
HS -	HEADED STUD		
HSS -	HOLLOW STRUCTURAL SECTION	UNO -	UNLESS NOTED OTHERWISE
HT -	HEIGHT		
		V -	SHEAR
ID -	INSIDE DIAMETER	VB -	VERTICAL BRACE
IF -	INSIDE FACE	VERT -	VERTICAL
IN -	INCH		
INFO -	INFORMATION	W -	WIDTH
INT -	INTERIOR	W/ -	WITH
INTERM -	INTERMEDIATE	W/O -	WITHOUT
		WD -	WOOD
JG -	JOIST GIRDER	WDW -	WINDOW
JST(S)	JOIST(S)	WL -	WIND LOAD
JT -	JOINT	WP -	WORK POINT
		WPFG -	WATERPROOFING
K -	KIPS (1000 LBS)	WS -	WATERSTOP
KLF -	KIP PER LINEAR FOOT	WT -	WEIGHT
KSF -	KIP PER SQUARE FOOT	WWM -	WELDED WIRE MESH
KSI -	KIP PER SQUARE INCH		
		X-STR -	EXTRA STRONG
L -	LENGTH	XX-STR -	DOUBLE EXTRA STRONG
LBS -	POUNDS		
LL -	LIVE LOAD		

TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

STATE OF TEXAS
AGUSTIN TELLEZ, JR.
79341
LICENSED
PROFESSIONAL ENGINEER
August 5, 2019

INTELLIGENT ENGINEERING SERVICES
ENGINEERING COMMUNITIES FROM THE GROUND UP
10001 REUNION PLACE, SUITE 200 SAN ANTONIO, TEXAS 78216
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issue for construction

City of San Antonio
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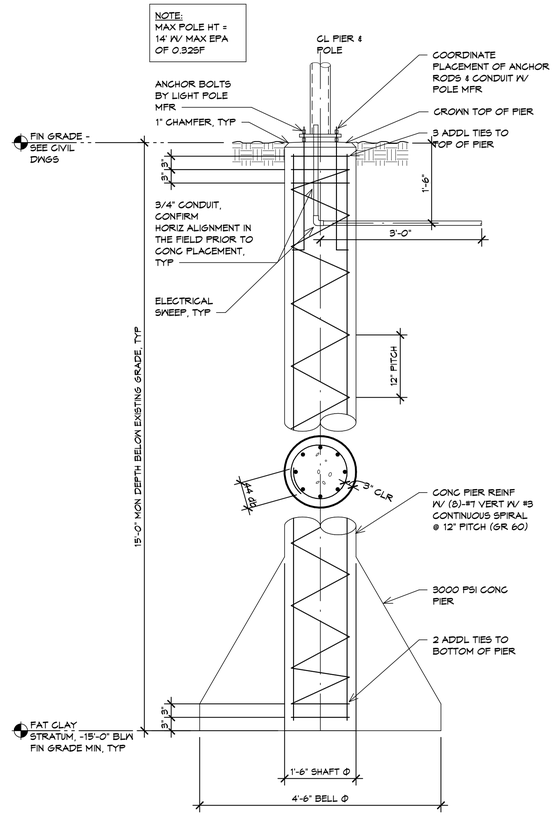
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issue date
november 8, 2019

designed:
drawn:
reviewed:

sheet title
SPECIAL INSPECTIONS

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1 TYPICAL LIGHT POLE FOUNDATION DETAIL - 14' MAX POLE HEIGHT
SCALE: 3/4" = 1'-0"

2465 DRILLED PIERS

A. Bearing elevation is 15'-0" minimum below finished grade in the FAT CLAY layer.

B. Reinforcing cage shall be held securely away from earth at sides and bottom by sets of 3 spacers at a maximum spacing of 8 ft. along the length of the cage and 1'-0" from the bottom.

C. Pier reinforcing and concrete shall be placed immediately after drilling operations are complete; in no case shall a pier be drilled that cannot be placed by the end of the workday.

D. See details for pier sizes, reinforcing and depth. See MEP series drawings for location of piers.

E. The contractor shall verify depths of piers before pier steel is cut. Pier steel may be delivered to the jobsite in standard lengths and cut as required. Provide 64 bar diameter laps in all vertical pier reinforcing.

F. Reinforcing steel shop drawings shall include placing drawings for templates to set dowels in piers.

G. Top of pier shall be of the specified diameter. Form top of pier if required to maintain the specified diameter. Any concrete extending beyond the specified diameter shall be removed.

H. Temporary steel casing may be required during pier drilling operations. Prior to the placement of concrete, any seepage water shall be removed from the pier holes. Special construction procedures in accordance with ACI 336.1 and ACI 336.3R and specifications shall be followed during extraction of the casing and during concrete placement.

I. Contractor shall include in bid documents, unit-costs for casing if required and unit-cost for greater and lesser depth of drilling for each pier size.

J. All piers shall be inspected by a representative of the Geotechnical Engineer in order to ensure that the proposed bearing material has been reached in accordance with the recommendations given in the geotechnical report.

K. The contractor shall make and maintain accurate records of the drilled pier depths, bearing stratum, depth of penetration into bearing stratum, diameter and location (including off center eccentricities), and shall submit this information to the Engineer.

L. Pier design is in accordance with the recommendations outlined in the Geotechnical Report prepared by Arias Geoprofessionals dated April 2, 2019, Report No. 2018-10 and Supplemental Letter #1 dated July 9, 2019.

SPECIAL INSPECTIONS TABLES FOR STRUCTURAL ELEMENTS - 2018

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REQUIRED SPECIAL INSPECTIONS OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS (IBC Table 1705.8)		
SPECIAL INSPECTION TYPE	INSPECTION FREQUENCY	
	CONTINUOUS	PERIODIC
1. Inspect drilling operations and maintain complete and accurate records for each element	X	--
2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes	X	--
3. For concrete elements, perform tests and additional special inspections in accordance with IBC Section 1705.3	--	--

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landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

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79341
LICENSED PROFESSIONAL ENGINEER
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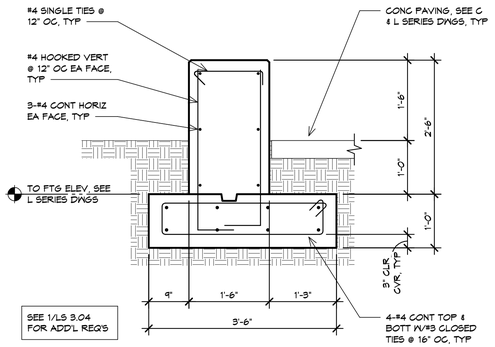
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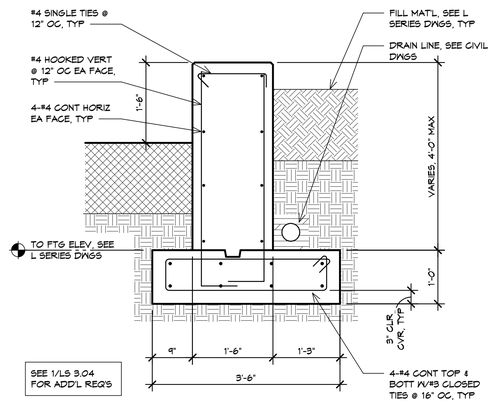
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LIGHT POLE DETAILS

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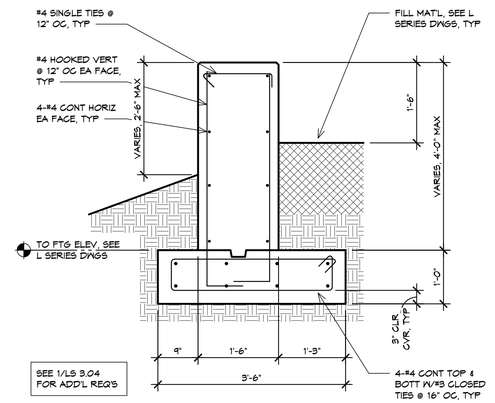
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1 TYPICAL CONCRETE SEAT WALL DETAIL - REF 1/LS 3.04
SCALE: 3/4" = 1'-0"



2 TYPICAL CONCRETE SEAT WALL AT WOOD FIBAR B - REF 2/LS 3.04
SCALE: 3/4" = 1'-0"



3 TYPICAL CONCRETE DEAT WALL AT WOOD FIBAR B - REF 3/LS 3.04
SCALE: 3/4" = 1'-0"

4 TYPICAL BRIDGE FRAMING DETAIL - REF 8/LS3.02
SCALE: 3/4" = 1'-0"

5 TYPICAL BRIDGE FRAMING DETAIL - REF 8/LS3.02
SCALE: 3/4" = 1'-0"

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sheet title
SITEWORK DETAILS

sheet
S1.2

PLUMBING SYMBOLS & ABBREVIATIONS

(NOTE: ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS)

PIPING DESIGNATIONS

CW	DOMESTIC POTABLE COLD WATER
HW	DOMESTIC HOT WATER SUPPLY
HWR	DOMESTIC HOT WATER RETURN (NEW)
TW	TEMPERED WATER
TWR	TEMPERED WATER RETURN
SS	SANITARY SEWER (BELOW FLOOR)
V	VENT
G	GAS
TP	TRAP PRIMER
F	FIRE PROTECTION
SP	SPRINKLER PIPE
	EXISTING PIPE TO REMAIN.
V	VENT

PIPING DEVICES

SV	STOP, SHUT-OFF OR GATE VALVE
GV	BY-PASS OR GLOBE VALVE
BV	BALANCING VALVE
CBV	CALIBRATED BALANCE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	HOSE END DRAIN VALVE
CKV	CHECK VALVE, FLOW AS SHOWN
M M	MOTOR OPERATED VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	ANGLE VALVE
	VALVE IN RISER
	GAUGE COCK
AV	AIR VENT
STR	STRAINER
	UNION
EJ	EXPANSION JOINT
	PIPE ANCHOR
	FLEXIBLE CONNECTION
	PIPE GUIDE
T	DIAL THERMOMETER
P	PRESSURE GAUGE
	SLOPE DN IN DIRECTION SHOWN
	FLOW DIRECTION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	CAPPED PIPE TERMINATION
	ELBOW DOWN
	ELBOW UP
	CONNECTION BOTTOM OF MAIN
	PIPE UP AND DOWN
	HOSE BIBB
	FLOOR DRAIN

GENERAL SYMBOLS

101	ROOM NUMBER
P 1	PLUMBING RISER
2	KEYED NOTES
2	REVISIONS
	CONNECTION TO EXISTING
	SCHEMATIC FAN OR PUMP
S	TEMPERATURE SENSOR

EQUIPMENT DESIGNATIONS

ABC-1 EQUIPMENT TYPE FROM LIST – SCHEDULED UNIT NUMBER

AC	AIR COMPRESSOR
ACU	AIR CONDITIONING UNIT
AF	AIR FILTER
AHU	AIR HANDLING UNIT
AS	AIR SEPARATOR
ATU	AIR TERMINAL UNIT
B	BOILER
BFP	BACKFLOW PREVENTER
BP	BOOSTER PUMP (WATER PRESSURE)
BR	BASEBOARD RADIATION
BS	BLOWDOWN SEPARATOR
C	CHILLER
CC	COOLING COIL
CRP	CONDENSATE RECEIVER PUMP UNIT
CRU	COMPUTER ROOM UNIT
CT	COOLING TOWER
CTH	COOLING TOWER HEATER
CU	CONDENSING UNIT (AIR COOLED)
DC	DRY COOLER
EC	EVAPORATIVE COOLER
EEW	EMERGENCY EYE WASH (& SHOWER)
EHC	ELECTRIC HEATING COIL
ET	EXPANSION TANK
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FCU	FAN COIL UNIT
FCV	FLOW CONTROL VALVE (AUTOMATIC)
FD	FLOOR DRAIN
FP	FIRE PUMP
FTU	FAN TERMINAL UNIT
GRV	GRAVITY ROOF VENTILATOR
GWH	GAS WATER HEATER
H	HUMIDIFIER
HC	HEATING COIL
HPA	HEAT PUMP, AIR SOURCE
HPW	HEAT PUMP, WATER SOURCE
HWRP	HOT WATER RECIRCULATING PUMP
JP	JOCKEY PUMP
L	LAVATORY
MS	MOP SINK
MD	MOTORIZED DAMPER
P	PUMP
PP	PLUMBING PUMP
PRV	PRESSURE REDUCING VALVE
RC	REFRIGERANT COMPRESSOR
RH	RADIANT HEATING PANEL
RV	RELIEF VALVE
RVB	REFRIGERATOR VALVE BOX
RTU	ROOF TOP UNIT
SE	SEWAGE EJECTOR
SP	SUMP PUMP
UH	UNIT HEATER
VB	VALVE BOX
VRP	VACUUM RETURN PUMP UNIT
WH	WALL HYDRANT
SH	SHOWER
SK	SINK
U	URINAL
WC	WATER CLOSET

ABBREVIATION DESCRIPTION

A	AMPERES
AC	ABOVE CEILING
A/C	AIR CONDITIONING
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
APPROX	APPROXIMATE
AUTO	AUTOMATIC
ARCH	ARCHITECTURAL
AUX	AUXILIARY
BFP	BACKFLOW PREVENTER
BG	BELOW GRADE
BLDG	BUILDING
BOS	BOTTOM STRUCTURE
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
C	CONDENSATE
CAP	CAPACITY
CAT	CATEGORY
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CLG	CEILING
CO	CLEAN OUT
CONN	CONNECTION
CONT	CONTINUE OR CONTINUATION
CONTR	CONTRACTOR
COL	COLUMN
CU	COPPER
CV	CONTROL VALVE
CW	COLD WATER
DEG	DEGREES (°)
DIW	DEIONIZED WATER
DIWR	DEIONIZED WATER RETURN
DEPT	DEPARTMENT
DF	DRINKING FOUNTAIN
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER (ø)
DIR	DIRECTION
DISC	DISCONNECT
DIV	DIVISION
DN	DOWN
DWG	DRAWING
DSN	DOWNSPOUT NOZZLE
DYCO	DOUBLE YARD CLEANOUT
ELEC	ELECTRIC OR ELECTRICAL
ELEV	ELEVATION
EMCS	ENERGY MANAGE. CONTROL SYS.
EMER	EMERGENCY
EOD	EMERGENCY OVERFLOW DRAIN
EP	EXPLOSION PROOF
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
(E)	EXISTING
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDC	FIRE DEPT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISHED FLOOR
FFE	FINISHED FLOOR ELEVATION
FG	FINISHED GRADE
FL	FLOOR
FP	FIRE PROTECTION
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FT	FEET (')
GA	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	GRADE
GRD	GROUND
HB	HOSE BIBB
HD	HUB DRAIN
HT	HEIGHT
HW	HOT WATER
IE	INVERT ELEVATION
INC	INCLUDE OR INCLUDED
IN	INCHES (")
IW	INDIRECT WASTE
KW	KILOWATTS
LAV	LAVATORY
LB	POUNDS
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MA	MEDICAL AIR
MAX	MAXIMUM
MB	MOP BASIN
MBH	THOUSAND BTU PER HOUR
MCC	MOTOR CONTROL CENTER
MECH.	MECHANICAL
MIN	MINIMUM
MFR.	MANUFACTURER
MH	MANHOLE
MIN.	MINUTES
MTD	MOUNTED
MTR	MOTOR
N_2	NITROGEN
N_2O	NITROUS OXIDE
NC	NORMALLY CLOSED
(N)	NEW
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
OH	OVER HEAD
OS&Y	OUTSIDE SCREW AND YOKE
PRESS	PRESSURE
PH	PHASE
PIV	POST INDICATOR VALVE
PLBG	PLUMBING
PNL	PANEL
PPH	POUNDS PER HOUR
PRS	PRESSURE REDUCING STATION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	PRESSURE IN PSI GAUGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RE:	REFER TO
REC	RECESSED
REF	REFERENCE, CALLED OUT ELSEWHERE
REQD	REQUIRED
RL	ROOF DRAIN LEADER
RM	ROOM
RO	REVERSE OSMOSIS
RPM	REVOLUTIONS PER MINUTE
SD	STORM DRAIN
SF	SQUARE FEET
SHT	SHEET
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
STL	STEEL
SW	SOFT WATER
TD	TRENCH DRAIN
TEMP	TEMPORARY
TP	TRAP PRIMER
T&PRV	TEMPERATURE & PRESSURE RELIEF VALVE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
VB	VACUUM BREAKER
VERT	VERTICAL
VTR	VENT THROUGH ROOF
W/	WITH
WCO	WALL CLEAN OUT
WH	WALL HYDRANT
WTR	WATER
YD	YARD DRAIN
YCO	YARD CLEANOUT

GENERAL NOTES:

1. SCOPE OF PLUMBING WORK IS TO FURNISH AND INSTALL ALL FIXTURES, EQUIPMENT, PLUMBING AND PIPING. ALSO IN THE SCOPE ARE MISCELLANEOUS FIXTURES, EQUIPMENT, PLUMBING AND PIPING ON THE SITE.
2. THESE DRAWINGS INDICATE THE GENERAL EXTENT OF WORK AND ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE.
4. ALL TEMPERATURES ARE IN DEGREES F° UNLESS NOTED OTHERWISE.
5. WHEREVER HOT AND COLD WATER CONTROLS, FAUCETS, VALVES OR STOP VALVES ARE INSTALLED TOGETHER, HOT SHALL BE ON LEFT AND COLD SHALL BE ON RIGHT AS SEEN BY THE USER.
6. SOME SYMBOLS SHOWN MAY NOT BE USED.
7. REFER TO ARCHITECTURAL DRAWINGS FOR MOST ACCURATE WALLS, CEILING ELEMENTS AND PLUMBING FIXTURE LOCATIONS.
8. UTILITY LOCATIONS ARE APPROXIMATE AND ARE BASED ON INFORMATION SUPPLIED BY OTHERS. PHYSICALLY VERIFY LOCATIONS AND ELEVATIONS BEFORE BEGINNING INSTALLATIONS.
9. WASTE PIPING IS GENERALLY UNDER THE FLOOR. ALL OTHER PIPING IS GENERALLY ABOVE THE FLOOR OR CEILING EXCEPT AS INDICATED, OR AS NECESSARY.
10. PIPING SHALL BE ROUTED HIDDEN FROM VIEW. WHERE PIPING CANNOT BE HIDDEN FROM VIEW, OBTAIN ARCHITECT APPROVAL OF ROUTING AND FINISHED APPEARANCE OF PIPING. FACTORY FINISH OF PIPING IS ACCEPTABLE. FACTORY FINISH OF INSULATION JACKET IS ACCEPTABLE. REMOVE NON-FACTORY AND VISABLY OBJECTIONAL MARKS ON FINISHED PIPING AND INSULATION.
11. CONTRACTOR SHALL FIELD VERIFY EXISTING DOMESTIC WATER PRESSURE AND PROVIDE PRESSURE REDUCING VALVE IF WATER PRESSURE IS GREATER THAN 80 P.S.I.. PRESSURE REDUCING VALVE SHALL BE SET BETWEEN 75 TO 80 P.S.I..
12. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SUBMITTING BID.
13. REFER TO ARCHITECTURAL DRAWING FOR MOUNTING HEIGHT OF PLUMBING FIXTURES.
14. CONTRACTOR SHALL COORDINATE WITH ALL TRADES DURING CONSTRUCTION.
15. SLOPE ALL WASTE PIPING AT 1/4" PER FOOT UNLESS OTHERWISE NOTED.
16. REFER TO ARCHITECTURAL ELEVATION AND SECTIONS PRIOR TO ROUTING OF PIPING.

TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

CNG ENGINEERING
MEP DESIGN PLANNING COMMISSIONING
1917 N NEW BRAUNFELS AVE, SUITE 201
SAN ANTONIO, TEXAS 78208
T 210.224.8841 F 210.224.8224
www.cngengineering.com
TBPE FIRM # F-7964

STATE OF TEXAS
JOSHUA BAUMGARTNER
119197
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City of San Antonio
San Antonio, Texas

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issue date
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designed: MB
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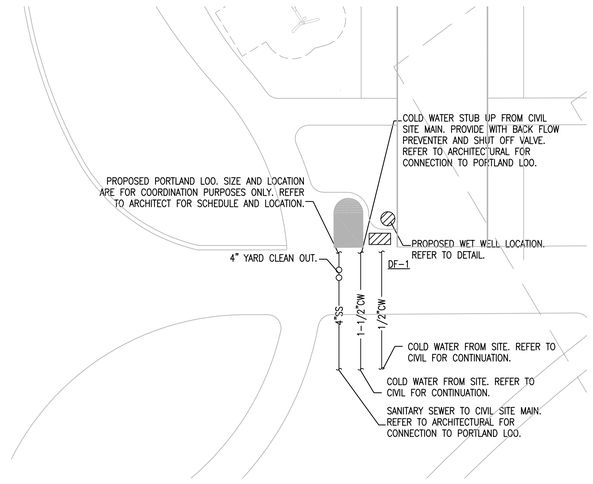
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PLUMBING SYMBOLS & ABBREVIATIONS

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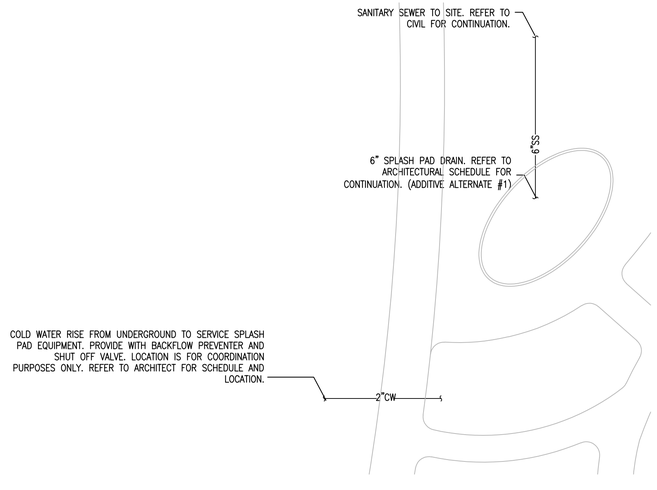
2 PLUMBING SITE PLAN - DOG WATER BOWL FOUNTAIN
SCALE: 3/4" = 1'-0"

NORTH



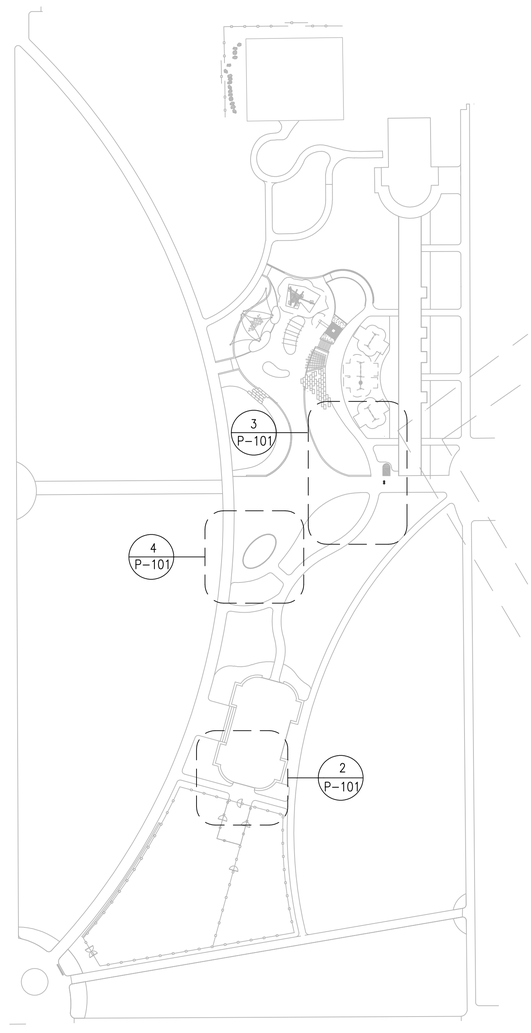
3 PLUMBING SITE PLAN - PORTLAND LOO
SCALE: 3/4" = 1'-0"

NORTH



4 PLUMBING SITE PLAN - ALTERNATE 1
SCALE: 3/4" = 1'-0"

NORTH



1 PLUMBING SITE PLAN
SCALE: 3/4" = 1'-0"

NORTH

KEYED NOTES:

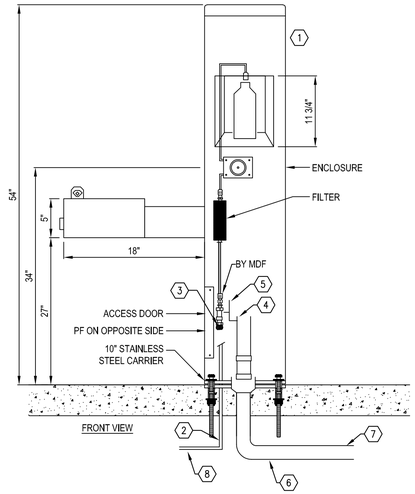
1. DRINKING FOUNTAIN (DF-1) ON 3" MINIMUM CONCRETE PAD. REFERENCE CIVIL DRAWINGS.
2. 1/2" DOMESTIC COLD WATER. COORDINATE CONNECTION POINT WITH ON-SITE UTILITIES. VERIFY LOCATION BEFORE BEGINNING WORK
3. 1/2" ISOLATION BALL VALVE AND CHECK VALVE.
4. 1/2" DRAIN BALL VALVE.
5. WATER HAMMER ARRESTOR.
6. DRAIN FROM WATER FOUNTAIN SHALL BE 3" PVC BELOW GRADE WITH 12" MINIMUM COVER. SLOPE 1/4" PER FOOT MINIMUM.
7. ROUTE SANITARY DRAIN TO DRY-WELL. FIELD VERIFY EXACT LOCATION.
8. COORDINATE CONNECTION POINT WITH ON-SITE UTILITIES. VERIFY LOCATION BEFORE BEGINNING WORK.
9. REFER TO CIVIL DETAIL FOR PIPE INSTALLATION, COVER, AND WARNING TAPE.

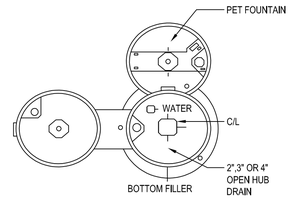
PLUMBING FIXTURE SCHEDULE		
TAG	MODEL	PIPE SIZE
DF-1	MDF 440 SM-FA COLOR: GREEN	SUPPLY 1/2" CPVC
		DRAIN 3" PVC
PDF-1	MDF 370 SM COLOR: GREEN	SUPPLY 1/2" CPVC
		DRAIN 3" PVC

GENERAL NOTES: (THIS SHEET ONLY)

1. REFER TO ARCHITECTURAL AND LANDSCAPING DRAWINGS FOR DIMENSIONS LOCATING AND ORIENTING DRINKING FOUNTAIN.
2. CONTRACTOR PERFORMING WATER PIPING WORK SHALL BE ON THE SAN ANTONIO WATER SERVICE (SAWS) LIST OF APPROVED CONTRACTORS, AS APPLICABLE FOR THE WORK OF THIS JOB.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS TO PERFORM THIS WORK, INCLUDING MEETING ALL REQUIREMENTS OF THE SAN ANTONIO WATER SERVICE.
4. CONTRACTOR IS RESPONSIBLE FOR AND SHALL INCLUDE IN BID PRICE ALL COSTS OF SAFETY, SCHEDULING OF SHUTDOWNS, TEMPORARY SERVICES, ETC. ASSOCIATED WITH THIS WORK.
5. DRINKING FOUNTAIN SHALL BE MOST DEPENDABLE FOUNTAINS MODEL 440 SM-FA. FOUNTAIN SHALL BE STAINLESS STEEL TYPE, BE HEAVY DUTY VANDAL RESISTANT.
6. TRENCH DEPTHS SHALL BE CALCULATED TO PROVIDE REQUIRED AMOUNT OF COVER. BEDDING MATERIAL AND AMOUNT SHALL BE PER SAWS REQUIREMENTS. WHERE SAWS REQUIREMENTS ARE NOT APPLICABLE USE SAND OR FINE GRAVEL 100% PASSING A 3/4" SIEVE AND INSTALL BEDDING MATERIAL AT LEAST 3" UNDER, OVER AND AROUND ALL PIPING.
7. MAKE ALL PIPE ELEVATION TRANSITIONS WITH TWO 45° ELBOWS.
8. RESTORE ALL SURFACES DISTURBED BY THIS WORK TO ORIGINAL CONDITION, COMPACT EARTH BELOW, INSTALL PAVING, CONCRETE, SOD OR EARTH TO MATCH EXISTING.
9. DISINFECT AND FLUSH NEW INSTALLED PIPING.
10. CONTRACTOR SHALL COORDINATE WITH SITE AND CONFIRM POINTS OF CONNECTION TO SITE WORK AND INVERT ELEVATIONS.
11. CONTRACTOR SHALL PROVIDE ALL WORK IN ACCORDANCE WITH LOCAL CODES AND REQUIREMENTS.
12. THE SLOPE OF THE SANITARY DRAIN SHALL BE 1/4" PER L.F. UNLESS OTHERWISE NOTED. REFER TO CIVIL FOR ADDITIONAL SLOPING REQUIREMENTS.
13. PROVIDE PRESSURE REDUCING VALVE AT DOMESTIC WATER SERVICE ENTRANCE IF SERVICE PRESSURE IS EXPECTED TO EXCEED 80 PSI. PRESSURE DOWN STREAM OF PRV SHALL NOT EXCEED 75 PSI.
14. PROVIDE SHOCK ABSORBERS TO ALL UTILITY SERVICE BOXES AND FAST CLOSING VALVES (USB).

PIPE MATERIAL LIST
DOMESTIC WATER PIPING BELOW SLAB WITHIN 5'-0" OF THE BUILDING SHALL BE SCHEDULE 40 CHLORINATED POLYVINYL CHLORIDE PIPE AND FITTINGS.
SANITARY PIPING BELOW SLAB SHALL BE SCHEDULE 40 DWV POLYVINLY CHLORIDE PIPE AND FITTINGS CONFORMING TO ASTM D-2665 WITH SOLVENT WELDED JOINTS.



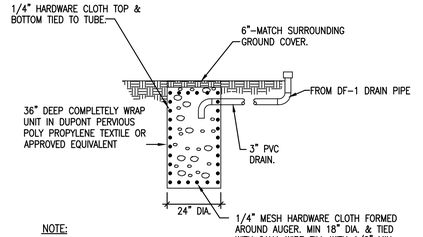


TOP VIEW

NOTES:
1. STAINLESS STEEL SURFACE CARRIER RECOMMENDED.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
5. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

5 DRINKING FOUNTAIN DETAIL
SCALE: NTS

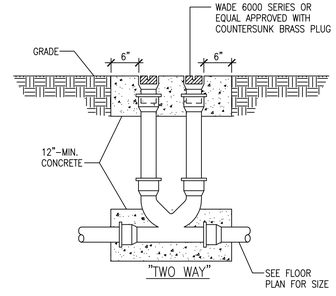
NORTH



NOTE:
DRY WELL HOLES ARE TO BE BORED

6 DRY WELL DETAIL
SCALE: NTS

NORTH



6 YARD CLEAN OUT DETAIL
SCALE: NTS

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TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

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drawn: MB
reviewed: JB

sheet title
PLUMBING SITE PLAN

sheet
P1.01

ELECTRICAL SYMBOLS & ABBREVIATIONS

[SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT]

SYMBOL — DESCRIPTION

GENERAL

J	JUNCTION BOX, IN-GRADE PULLBOX
PC	PHOTOCELL SENSOR

PANELBOARDS (26 24 16)

	120/240V PANELBOARD, SURFACE MOUNTED (SEE E4 SERIES FOR PANEL SCHEDULES)

INTERIOR & EXTERIOR LIGHTING (26 51 00 & 26 56 00)

	PEDESTRIAN POST TOP POLE LED LUMINAIRE
	BOLLARD LIGHTING FIXTURE
	FESTOON LIGHTING AND STEEL SUPPORT POLE

RACEWAYS (26 05 33)

OHE	OVERHEAD UTILITY LINE
UGE	UNDERGROUND UTILITY LINE
OHE	EXISTING OVERHEAD UTILITY LINE
UGE	EXISTING UNDERGROUND UTILITY LINE
	UNDERGROUND CIRCUIT POWER LINES
PANEL-2,4,6 IG G N	BRANCH CIRCUIT HOMERUN, WITH PANEL AND BREAKER POSITION INDICATED. SMALL TICK(S) = PHASE CONDUCTORS, LARGE TICK = NEUTRAL CONDUCTOR AND LARGE TICK WITH CIRCLE = GROUND CONDUCTOR.

WIRING DEVICES (26 27 26)

WP	GFCI, DUPLEX RECEPTACLE – 20A, 125V, 3W, NEMA 5-20R (WP = NEMA 3R WHILE IN USE)

REFERENCE SYMBOLS

	CIRCUIT END EXTENSION
X	KEYED NOTE TAG, HEXAGON
X	DEMOLITION KEYED NOTE TAG, ROUND
A	ADDENDUM, ASI, ASR, PR TAG
XXX-XX	EQUIPMENT TAG
1 / E1.0	ENLARGED PLAN, DETAIL TAG
5 / E303	ELEVATION TAG
5 / E303	SECTION TAG

ABBREVIATION — DESCRIPTION

ABBREVIATION	DESCRIPTION
A	AMPERE(S)
ABV	ABOVE
AC	ABOVE COUNTER
AIC	AMPERE INTERRUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
BC	BELOW COUNTER
BFF	BELOW FINISHED FLOOR
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
COND	CONDUCTOR
CPU	CENTRAL PROCESSING UNIT
DIA	DIAMETER
DIST	DISTRIBUTION
DN	DOWN
DWGS	DRAWINGS
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EMT	ELEC. METALLIC TUBING
EQMT	EQUIPMENT
EXH	EXHAUST
EXTG	EXISTING
FC	FOOT CANDLES
FCU	FAN COIL UNIT
FLEX	FLEXIBLE METAL CONDUIT
FN	FULL NEUTRAL
FT	FEET, FOOT
GALV	GALVANIZED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
HP	HORSE POWER
HOA	HAND OFF AUTOMATIC
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HZ	HERTZ

ABBREVIATION — DESCRIPTION

ABBREVIATION	DESCRIPTION
IC	INTERCOM
ID	INSIDE DIAMETER
IMC	INTERMEDIATE STEEL CONDUIT
IN	INCHES
INC	INCANDESCENT
IG	ISOLATED GROUND
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWH	KILOWATT HOUR
LB	POUND
M	MANHOLE
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL & PLUMBING
MH	MOUNTING HEIGHT
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTG	MOUNTING
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NF	NON FUSED
NO	NORMALLY OPEN
N.T.S.	NOT-TO-SCALE
OC	ON CENTER
OH	OVERHEAD
P	POLE
PA	PUBLIC ADDRESS
PB	PUSH BUTTON
PBX	PRIVATE BUILDING EXCHANGE
PC	PULL CHAIN
PEC	PHOTO CELL
PNL	PANELBOARD
PSI	POUNDS PER SQUARE INCH
PVC	POLY VINYL CHLORIDE CONDUIT
PWR	POWER
RGS	RIGID GALVANIZED STEEL CONDUIT
RMC	RIGID METAL CONDUIT
SC	SPLIT CIRCUIT
SN	SOLID NEUTRAL
SQFT	SQUARE FEET,FOOT
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TELE	TELEPHONE
TSTAT	THERMOSTAT
TV	TELEVISION
TYP.	TYPICAL
UH	UNIT HEATER
UEP	UNDERGROUND ELECTRIC PRIMARY
UES	UNDERGROUND ELECTRIC SECONDARY
UEB	UNDERGROUND ELECTRIC BRANCH CIRCUIT
U.N.O.	UNLESS NOTED OTHERWISE
V	VOLT(S)
VP	VAPOR PROOF
W	WIRE
WP	WEATHERPROOF
XFMR	TRANSFORMER
Z	IMPEDENCE
1P	ONE POLE
2P	TWO POLE
3P	THREE POLE
Ø	PHASE

GENERAL NOTES

A. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND REVIEW ALL RELATED DRAWINGS AND SPECIFICATIONS PRIOR TO BID.

B. THE DRAWINGS ARE DIAGRAMMATICAL. CONTRACTOR SHALL VERIFY FIELD CONDITIONS AND DETERMINE CONDUIT ROUTING AND EXACT LOCATIONS OF EQUIPMENT AND DEVICES. NOTIFY THE ARCHITECT/ENGINEER IF THE APPROXIMATE CONDUIT ROUTING SHOWN ON PLANS IS NOT FEASIBLE. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

C. LOCATIONS OF DEVICES ARE DIAGRAMMATICAL. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO ROUGH-IN.

D. REFERENCE EQUIPMENT CONNECTION SCHEDULE FOR REQUIREMENTS AND ADDITIONAL INFORMATION OF TAGGED EQUIPMENT SHOWN ON PLAN.

E. LOCATIONS OF PLUMBING EQUIPMENT TO BE COORDINATED WITH PLUMBING DRAWINGS FOR EXACT LOCATIONS AND QUANTITY.

F. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL CODES. ALL WORK SHALL MATCH THE EXISTING SITE ELECTRICAL INSTALLATION. ALL SYSTEMS SHALL BE INSTALLED IN A WORKMANLIKE MANNER IN ACCORDANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS APPROVED BY ALL AUTHORITIES HAVING JURISDICTION.

G. PROVIDE A TYPED PANEL DIRECTORY FOR EACH NEW OR MODIFIED ELECTRICAL PANEL. DIRECTORY SHALL IDENTIFY THE CIRCUIT NUMBER, DEVICES SERVED, AND LOCATION OF DEVICES. FILE COPY OF DIRECTORIES WITH THE OWNER'S REPRESENTATIVE WHEN WORK IS COMPLETED, AND PROVIDE COPIES WITH THE OWNER'S MANUALS.

H. INDICATED SPARE AND/OR SPACES IN ALL EQUIPMENT ON THE ELECTRICAL ONE-LINE DIAGRAM AND IN THE PANEL SCHEDULES ARE THE MINIMUM NUMBER REQUIRED FOR THIS PROJECT.

I. PROVIDE UL, CLASS A GROUND FAULT INTERRUPTER CIRCUIT PROTECTIVE DEVICES ON ALL CONSTRUCTION RECEPTACLE CIRCUITS, OUTSIDE RECEPTACLE CIRCUITS, AND ON ALL OTHER CIRCUITS REQUIRED OR RECOMMENDED IN THE NATIONAL ELECTRIC CODE.

J. ALL FUSES/CIRCUIT BREAKERS IN PANELS, DISCONNECT SWITCHES, MOTOR STARTERS, ETC., SERVING MOTORS AND EQUIPMENT SHALL BE SIZED AS RECOMMENDED BY THE MANUFACTURER OF THE PARTICULAR LOAD DEVICE SERVED. COORDINATE WITH OTHER TRADES AS REQUIRED.

K. THE CONTRACTOR SHALL COORDINATE WITH THE SPLASH PAD INSTALLER TO CONFIRM THE ACTUAL ELECTRICAL CONNECTION REQUIRED TO THE SPLASH PAD EQUIPMENT LOCATION TO BE DETERMINED IN THE NEXT SUBMITTAL PHASE.

L. REFER TO CIVIL DRAWINGS FOR REMOVAL OF THE EXISTING OVERHEAD PRIMARY LOCATED ON THE NORTH SIDE OF BURNET STREET TO BE CLOSED. THE EXISTING PRIMARY AND POWER POLES ARE TO BE REMOVED BY CPSE AND SHALL BE COORDINATED WITH CPSE REPRESENTATIVES. EXISTING STREET LIGHTING IS TO BE REMOVED LOCATED ON THE CPSE POWER POLES. THE CPSE STREET LIGHTING SHALL REMAIN ACTIVE AND IN PLACE FOR VEHICLES TRAVELING ON BURNET STREET UNTIL THE STREET IS CLOSED.

M. COORDINATION WITH CPSE REPRESENTATIVES IS REQUIRED FOR REMOVAL OF THE EXISTING ELECTRICAL SERVICES. THERE ARE TWO ELECTRICAL SERVICES TO BE REMOVED. A THIRD EXISTING ELECTRICAL SERVICE LOCATED AT BURNET ST. AND N. OLIVE ST IS TO REMAIN THAT SERVES SAWS EQUIPMENT. THIS TWO (2) EXISTING SERVICES SHALL NOT BE REMOVED UNTIL NOTIFICATION IS PROVIDED BY THE CITY OF SAN ANTONIO. ELECTRICAL SERVICES SHALL REMAIN ACTIVE UNTIL COORDINATED WITH CPSE FOR REMOVAL. COORDINATE WITH THE CITY OF SAN ANTONIO PROJECT MANAGER FOR SERVICE REMOVALS.

ALTERNATES

1. ALTERNATE #1: REFER TO THE DRAWINGS FOR THE LOCATION OF A PROPOSED FUTURE SPLASH PAD WITH PUMP EQUIPMENT TO BE PROVIDED BY THE SPLASH PAD VENDOR/INSTALLER. PROVIDE AN EMPTY CONDUIT WITH PULLCORD AS SHOWN ON THE DRAWINGS AND CAP FOR FUTURE USE TO PROVIDE POWER TO THE SPLASH PAD EQUIPMENT. CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND SPLASH PAD VENDOR FOR EXACT LOCATION BEFORE BEGINNING ANY WORK ON POWER SUPPLY CONDUIT.

LIGHTING GENERAL NOTES

A. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND SPACING OF SITE LIGHTING FIXTURES. FIXTURE QUANTITIES ARE INDICATED ON ELECTRICAL AND ARCHITECTURAL DRAWINGS. IF FIXTURE QUANTITIES ARE NOT EQUAL AMONG DISCIPLINES, CONTRACTOR SHALL REFER TO THE GREATER OF THE TWO FOR BIDDING. THE DESIGN TEAM SHALL BE CONTACTED FOR FINAL COORDINATION.

B. PROVIDE LIGHTING CONTROL SYSTEM WITH ALL NECESSARY ACCESSORIES FOR A COMPLETE INSTALLATION. LIGHTING CONTROL SYSTEM SHALL INCLUDE ASTRONOMICAL TIME-CLOCK SYSTEM, HOUSEKEEPING OVERRIDE 'ON' SWITCH CONTROL.

C. EXTERIOR LIGHTING TO BE CONTROLLED BY THE LIGHTING CONTROL PANEL WITH A PHOTOCELL INPUT,

D. REFERENCE LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL FIXTURE INFORMATION.

POWER GENERAL NOTES

A. ALL RECEPTACLES SHALL BE COMMERCIAL SPECIFICATION GRADE UNLESS NOTED OTHERWISE.

B. PROVIDE A "WHILE IN COVER" FOR ALL GFCI, WEATHERPROOF RECEPTACLES. COVER SHALL BE EQUAL TO A HUBBELL TAYMAC CAT. NO. – ML450G TO MOUNT IN A SINGLE GANG COVER

AIRPORT HAZARD OVERLAY DISTRICT - COMPLIANCE STATEMENT

PROJECT:	CoSA Dignowity Lockwood Park	The project consists of park improvements involving sidewalks, landscaping, new dog parks, a future splash pad, Portland Loo, Pedestrian and walkway lighting. Decorative Festoon lighting is proposed.
PROJECT NO:	0017-19	
PROJECT TYPE:	City Of San Antonio Park Improvements	
TYPES OF BUILDINGS:	Not Applicable	
GROSS SQ. FT.:	Not Applicable	
Compliance Statement	Compliance Statement for Airport Hazard Overlay District per the CoSA One Stop Zoning Map via the CoSA website at https://gis.sanantonio.gov/DSD/OneStop/Index indicates that the address of 701 Nolan Street, San Antonio, Texas 78202 is located in the Airport Overlay Hazard District. The Project electrical drawings are not required to be submitted to the City of San Antonio Zoning Department, Mr Aguiliar and FAA for review. Per conversation with Mr. Aguilar, the site lighting on this project is typical. All lighting must meet Dark Sky illumination and be full cut off type. No lighting is permitted ot be aimed upwards. This information is submitted for CoSA permit Plan review	

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landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

CNG ENGINEERING
MEP/DESIGN/PLANNING/COMMISSIONING
1917 N NEW BRAUNFELS AVE, SUITE 201
SAN ANTONIO, TEXAS 78208
T 210.224.8841 F 210.224.8224
www.cngengineering.com
TBPE FIRM # F-7964

STATE OF TEXAS
MICHAEL L. REISE
122366
LICENSED
PROFESSIONAL ENGINEER
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issue for construction

City of San Antonio
San Antonio, Texas

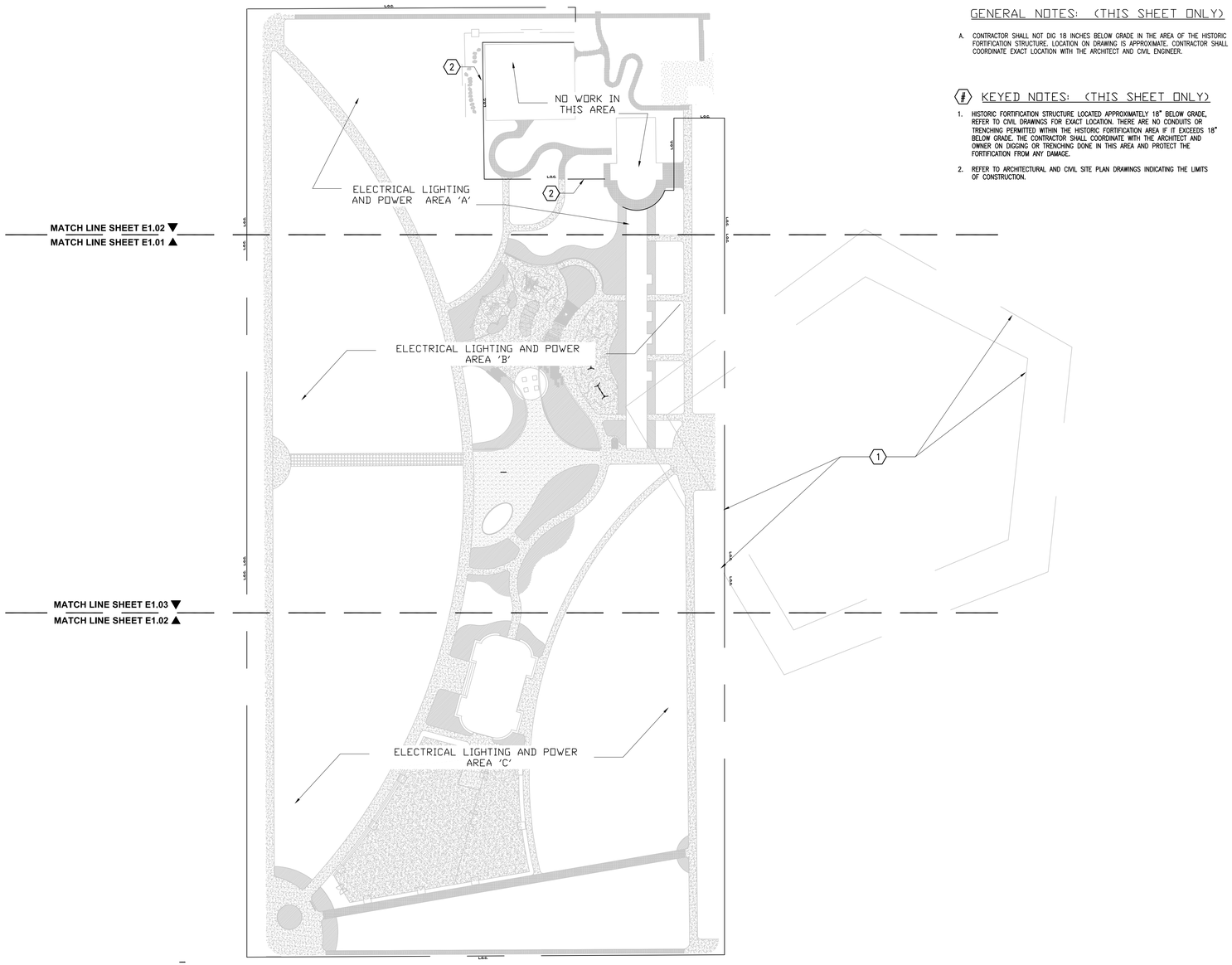
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issue date
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designed: R.O
drawn: K.S / J.G
reviewed: M.R

sheet title
ELECTRICAL SYMBOLS, ABBREVIATIONS, & NOTES

sheet
E0.00



GENERAL NOTES: (THIS SHEET ONLY)

A. CONTRACTOR SHALL NOT DIG 18 INCHES BELOW GRADE IN THE AREA OF THE HISTORIC FORTIFICATION STRUCTURE. LOCATION ON DRAWING IS APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT LOCATION WITH THE ARCHITECT AND CIVIL ENGINEER.

(#) KEYED NOTES: (THIS SHEET ONLY)

1. HISTORIC FORTIFICATION STRUCTURE LOCATED APPROXIMATELY 18" BELOW GRADE, REFER TO CIVIL DRAWINGS FOR EXACT LOCATION. THERE ARE NO CONDUITS OR TRENCHING PERMITTED WITHIN THE HISTORIC FORTIFICATION AREA IF IT EXCEEDS 18" BELOW GRADE. THE CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT AND OWNER ON DIGGING OR TRENCHING DONE IN THIS AREA AND PROTECT THE FORTIFICATION FROM ANY DAMAGE.
2. REFER TO ARCHITECTURAL AND CIVIL SITE PLAN DRAWINGS INDICATING THE LIMITS OF CONSTRUCTION.

1 OVERALL SITE PLAN - ELECTRICAL

SCALE: 1" = 64' - 0"

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1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

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MEP DESIGN PLANNING COMMISSIONING
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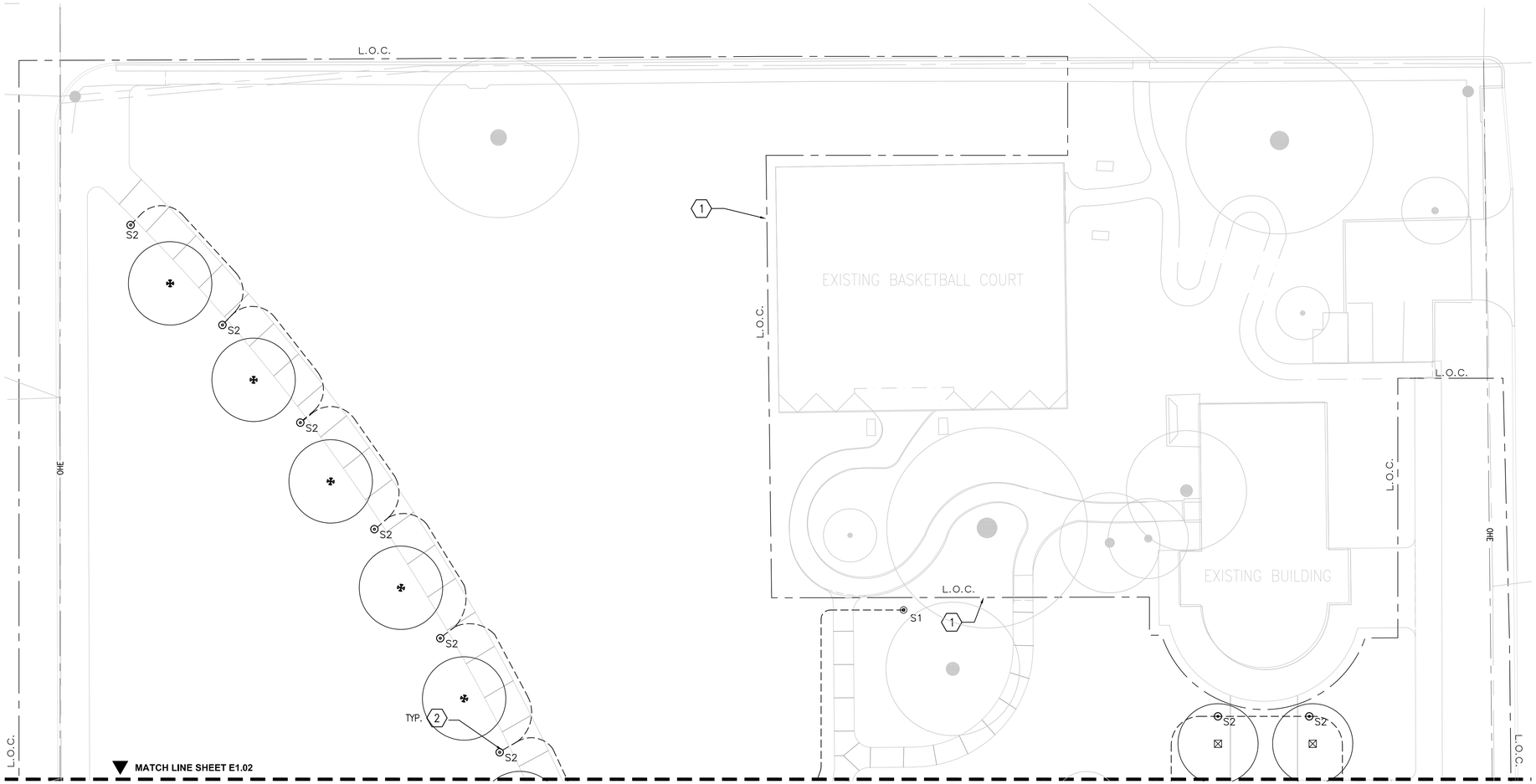
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SITE PLAN - ELECTRICAL

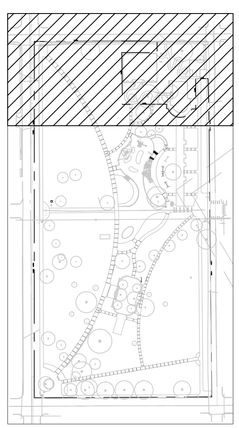
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1 PARTIAL SITE PLAN - AREA 'A' ELECTRICAL

SCALE: 1" = 20' - 0"

NORTH



KEY PLAN

SCALE: N.T.S.

KEYED NOTES: (SHEET E1.01 ONLY)

1. LIMITS OF CONSTRUCTION AREA NOTED AS L.O.C. AND NO ELECTRICAL WORK IS REQUIRED. BEYOND THE L.O.C. AREA.
2. REFERENCE TYPICAL CONCRETE FOOTING DETAIL 3/E5.01 FOR LIGHT BOLLARDS.

GENERAL NOTES:

A. ALL UTILITIES INSTALLED WITHIN EXISTING TREE ROOT ZONES, DEFINED AS THE ROOT PROTECTION ZONE, REQUIRE HAND-DIGGING, BORING, OR SPADING ONLY IN THESE ZONES.

B. CONSULT WITH LANDSCAPE ARCHITECT AND CERTIFIED ARBORIST PRIOR TO ANY WORK WITHIN ROOT PROTECTION ZONES.

C. CERTIFIED ARBORIST SHALL BE ON SITE DURING; EXCAVATING, TRENCHING, AND WORK WITHIN THE ROOT PROTECTION ZONES.

D. ALL UNDERGROUND BRANCH RACEWAYS SHALL BE SCHEDULE 80 PVC, MINIMUM 1" WHERE USED FROM PULLBOX TO LIGHTING FIXTURES LOCATIONS.

E. ALL WIRING SHALL BE THWN OR XHHW COPPER. THESE ARE COORDINATED WITH VOLTAGE DROP AND APPLICABLE DERATION FACTORS.

F. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH INDIVIDUAL NEUTRALS EQUAL TO THE WIRE GAUGE FOR THE PHASE CONDUCTORS.

G. PROVIDE A SINGLE, #8 AWG EQUIPMENT GROUND CONDUCTOR IN EACH 2" RACEWAY FROM PANEL TO PULLBOX THAT CONTAINS MULTIPLE BRANCH CIRCUITS.

H. COORDINATE ALL LOCATIONS WITH OF THE PROPOSED PARK LIGHTING LANDSCAPE DRAWINGS PRIOR TO INSTALLATION.

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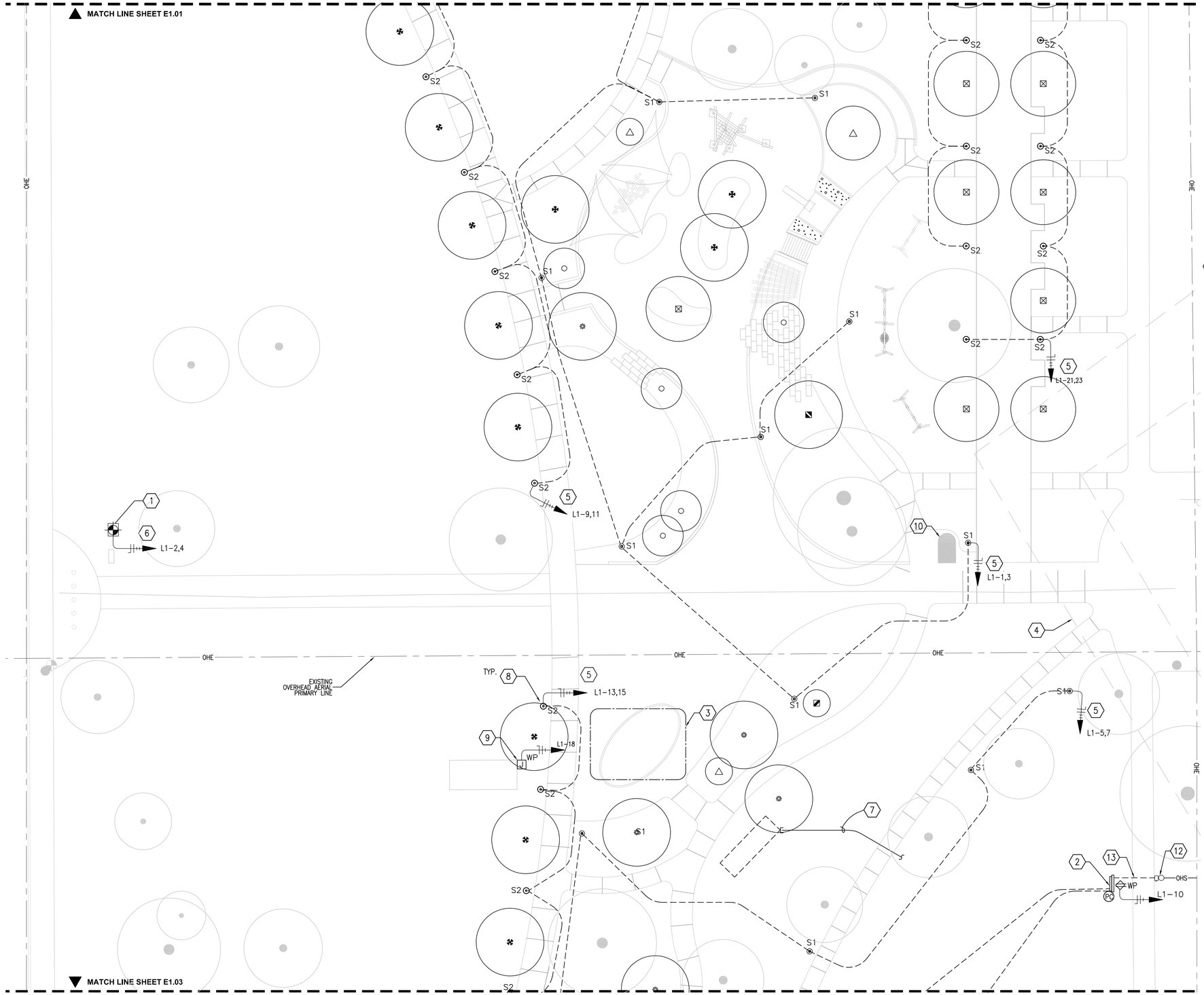
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PARTIAL SITE PLAN - AREA 'A' ELECTRICAL

sheet
E 1.01



1 PARTIAL SITE PLAN - AREA 'B' ELECTRICAL
SCALE: 1" = 20' - 0"

NORTH

GENERAL NOTES:

A. ALL UTILITIES INSTALLED WITHIN EXISTING TREE ROOT ZONES, DEFINED AS THE ROOT PROTECTION ZONE, REQUIRE HAND-DIGGING, BORING, OR SPADING ONLY IN THESE ZONES.

B. CONSULT WITH LANDSCAPE ARCHITECT AND CERTIFIED ARBORIST PRIOR TO ANY WORK WITHIN ROOT PROTECTION ZONES.

C. CERTIFIED ARBORIST SHALL BE ON SITE DURING; EXCAVATING, TRENCHING, AND WORK WITHIN THE ROOT PROTECTION ZONES.

D. ALL UNDERGROUND BRANCH RACEWAYS SHALL BE SCHEDULE 80 PVC, MINIMUM 1" WHERE USED FROM PULLBOX TO LIGHTING FIXTURES LOCATIONS.

E. ALL WIRING SHALL BE THWN OR XHHW COPPER. THESE ARE COORDINATED WITH VOLTAGE DROP AND APPLICABLE DERATION FACTORS.

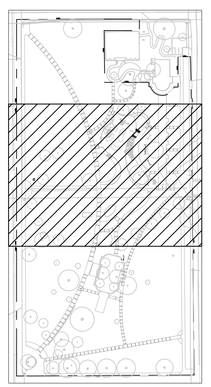
F. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH INDIVIDUAL NEUTRALS EQUAL TO THE WIRE GAUGE FOR THE PHASE CONDUCTORS.

G. PROVIDE A SINGLE, #8 AWG EQUIPMENT GROUND CONDUCTOR IN EACH 2" RACEWAY FROM PANEL TO PULLBOX THAT CONTAINS MULTIPLE BRANCH CIRCUITS.

H. COORDINATE ALL LOCATIONS WITH OF THE PROPOSED PARK LIGHTING LANDSCAPE DRAWINGS PRIOR TO INSTALLATION.

(#) KEYED NOTES: (SHEET E1.02 ONLY)

1. LOCATION OF EVENT POWER PEDESTAL, REF: 1/E5.01 FOR ADDITIONAL INFORMATION.
2. LOCATION OF NEW ELECTRICAL SERVICE RACK, REF: 1/E3.01 FOR ADDITIONAL INFORMATION.
3. PROPOSED LOCATION OF SPLASH PAD WATER FEATURE (ADDITIVE ALTERNATE #1)
4. APPROXIMATE LOCATION OF THE UNDERGROUND HISTORIC VALUE FORTIFICATION STRUCTURE TO BE KEPT FROM DAMAGE. NO CONDUITS DEEPER THAN 18" BELOW GRADE ARE TO BE INSTALLED IN AND NEAR THIS AREA. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND HISTORIC COMMISSION.
5. TYPICAL: 2 #10, AND #10 GND 1-1/4" CONDUIT. (240 V BRANCH CIRCUIT). EXTEND CIRCUIT VIA LIGHTING CONTACTOR.
6. REFERENCE THE ELECTRICAL DIAGRAM DETAIL 1/E3.01 FOR THE FEEDER/CONDUIT SIZE TO THE POWER PEDESTAL.
7. 2" EMPTY CONDUIT WITH PULL CORD FROM PANEL-L1 FOR SPLASH PAD FUTURE ELECTRICAL CONNECTION.
8. REFERENCE TYPICAL CONCRETE FOOTING DETAIL 3/E5.01 FOR LIGHT BOLLARDS.
9. WP. JUNCTION BOX ABOVE GRADE FOR IRRIGATION CONTROLLER. PROVIDE A GROUND FAULT INTERUPTER EQUAL TO A LEVITON CAT. #6FRBF-W AND MOUNT IN A CAST WP. BOX OPPOSITE TO THE JUNCTION BOX WITH 120V WIRING TO THE CONTROLLER. CONTRACTOR SHALL VERIFY CONTROLLER LOCATION AND EXACT POWER REQUIREMENTS.
10. PORTLAND LOO PROVIDED WITH A SOLAR POWERED ARRAY FOR ELECTRICAL LIGHTING/POWER IN THE RESTROOM PER MANUFACTURER.
11. TYPICAL: 2 #10, AND #10 GND 1-1/4" CONDUIT. (120 V BRANCH CIRCUIT). EXTEND CIRCUIT VIA LIGHTING CONTACTOR.
12. METER POLE LOCATION PER CPSE STANDARDS. LOCATE 14 FT FROM OVERHEAD PRIMARY LINES ALONG N. OLIVE STREET.
13. UNDERGROUND SERVICE TO MAIN SERVICE RACK. REFER TO DETAIL 1/E3.01.



KEY PLAN
SCALE: N.T.S.

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T 210.224.8841 F 210.224.8224
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122366
LICENSED
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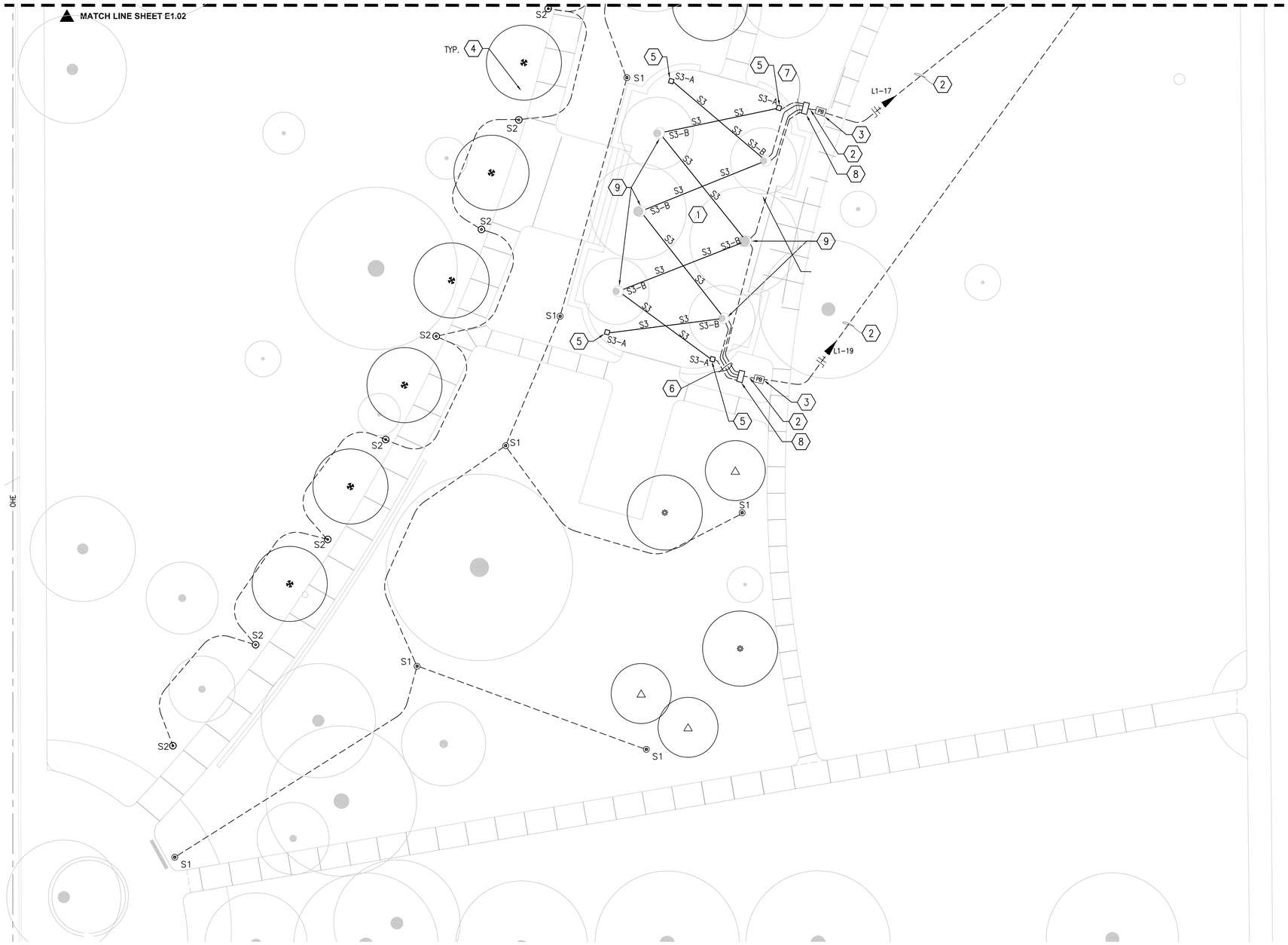
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drawn: K.S / J.G
reviewed: M.R

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PARTIAL SITE PLAN - AREA 'B' ELECTRICAL

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E 1.02



GENERAL NOTES:

A. ALL UTILITIES INSTALLED WITHIN EXISTING TREE ROOT ZONES, DEFINED AS THE ROOT PROTECTION ZONE, REQUIRE HAND-DIGGING, BORING, OR SPADING ONLY IN THESE ZONES.

B. CONSULT WITH LANDSCAPE ARCHITECT AND CERTIFIED ARBORIST PRIOR TO ANY WORK WITHIN ROOT PROTECTION ZONES.

C. CERTIFIED ARBORIST SHALL BE ON SITE DURING; EXCAVATING, TRENCHING, AND WORK WITHIN THE ROOT PROTECTION ZONES.

D. ALL UNDERGROUND BRANCH RACEWAYS SHALL BE SCHEDULE 80 PVC, MINIMUM 1" WHERE USED FROM PULLBOX TO LIGHTING FIXTURES LOCATIONS.

E. ALL WIRING SHALL BE THWN OR XHHW COPPER. THESE ARE COORDINATED WITH VOLTAGE DROP AND APPLICABLE DERATION FACTORS.

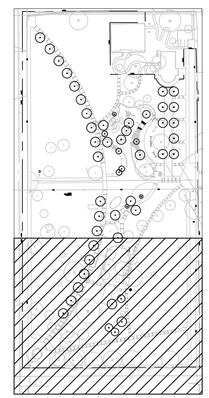
F. ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH INDIVIDUAL NEUTRALS EQUAL TO THE WIRE GAUGE FOR THE PHASE CONDUCTORS.

G. PROVIDE A SINGLE, #8 AWG EQUIPMENT GROUND CONDUCTOR IN EACH 2" RACEWAY FROM PANEL TO PULLBOX THAT CONTAINS MULTIPLE BRANCH CIRCUITS.

H. COORDINATE ALL LOCATIONS WITH OF THE PROPOSED PARK LIGHTING LANDSCAPE DRAWINGS PRIOR TO INSTALLATION.

KEYED NOTES: (SHEET E1.03 ONLY)

1. FESTOON LIGHTING FIXTURES, REQUIRES SEPARATE POWER SUPPLY. PROVIDE STEEL POLE FOR FESTOON LIGHTING AT LOCATED AREAS 'S3-A'.
2. TYPICAL: 2 #10, AND #10 GND. 1" CONDUIT. (120 V BRANCH CIRCUIT). EXTEND CIRCUIT VIA LIGHTING CONTROLLER.
3. MEDIUM GRADE DUTY PULLBOX IN PLANTER AREA. COORDINATE WITH THE ARCHITECT ON EXACT LOCATION. REFER TO TYPICAL DETAIL 4/E5.01.
4. REFERENCE TYPICAL CONCRETE FOOTING DETAIL 3/E5.01 FOR LIGHT BOLLARDS.
5. FESTOON LIGHTING TO BE MOUNTED ON METAL POLES PROVIDED BY OTHERS. REFER TO LIGHT FIXTURE SCHEDULE FOR MOUNTING ACCESSORIES.
6. PROVIDE 1" PVC SCH.80 – (2)#12 CU. & #12 CU. GND. FROM POWER SUPPLY TO LOWER HALF SECTION OF FESTOON LIGHTING. REFER TO LIGHT DETAILS FOR WIRING INFORMATION.
7. PROVIDE 1" PVC SCH.80 – (2)#12 CU. & #12 CU. GND. FROM POWER SUPPLY TO UPPER HALF SECTION OF FESTOON LIGHTING. REFER TO LIGHT DETAILS FOR WIRING INFORMATION.
8. PROVIDE POWER SUPPLY IN NEMA 4 ENCLOSURE FOR FESTOON LIGHTS IN PAVILION AREA. REFER TO E5.02 FOR ADDITIONAL INFORMATION.
9. FESTOON LIGHTS TO BE MOUNTED ONTO EXISTING TREE WITH MOUNTING ACCESSORIES PROVIDED BY THE CONTRACTOR. REFER TO THE TYPICAL MOUNTING DETAIL ON E5.02.



KEY PLAN
SCALE: N.T.S.

1 PARTIAL SITE PLAN - AREA 'C' ELECTRICAL
SCALE: 1" = 20' - 0"

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1705 guadalupe street
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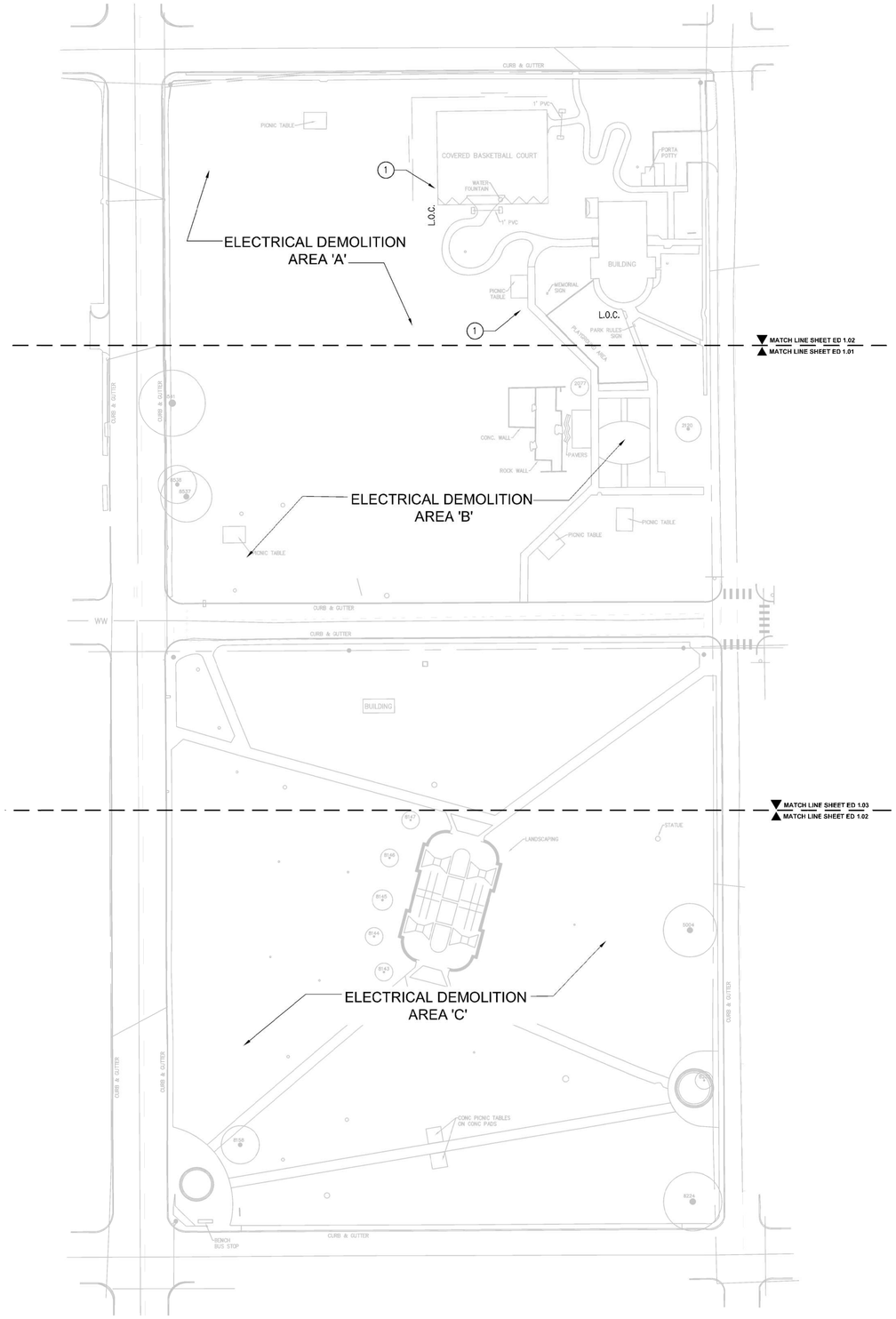
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PARTIAL SITE PLAN - AREA 'C' ELECTRICAL

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1 SITE PLAN - ELECTRICAL DEMOLITION
SCALE: 1" = 50' - 0"

NORTH

GENERAL DEMOLITION NOTES: (THIS SHEET ONLY)

1. CONDUCT ALL DEMOLITION WORK IN SUCH A MANNER AS TO MAINTAIN A SAFE WORK ENVIRONMENT AND IN ACCORDANCE WITH APPLICABLE SAFETY RULES AND PROCEDURES WITHIN NEC, NECA AND OSHA REQUIREMENTS.
2. CONTRACTOR SHALL REQUEST AND REVIEW ANY HAZARDOUS MATERIALS SURVEYS FROM THE OWNER'S REPRESENTATIVE. OBSERVE RECOMMENDED PRECAUTIONS AND VERIFY THE STATUS OF ANY REMEDIAL WORK RECOMMENDED OR NOTED WITHIN THE HAZARDOUS MATERIAL SURVEY. NOTIFY THE OWNER'S REPRESENTATIVE IF ANY HAZARDOUS MATERIALS ARE SUSPECTED OR OBSERVED DURING THE COURSE OF EXECUTING THIS CONTRACT.
3. SURVEY AREAS OF THE FACILITY SCHEDULED FOR RENOVATION OR PARTIAL DEMOLITION PRIOR TO ANY WORK BEING PERFORMED. SUBMIT REPORT OF THE PRE-WORK SURVEY DETAILING ANY UTILIZATION EQUIPMENT OR SYSTEMS THAT ARE NOT IN GOOD WORKING ORDER IN ADVANCE OF ANY DEMOLITION WORK AND REVIEW WITH THE OWNER'S REPRESENTATIVE.
4. RESTORE CIRCUITS, UTILIZATION EQUIPMENT AND SYSTEMS AFFECTED BY SELECTIVE DEMOLITION TO THE CONDITION NOTED IN THE PRE-WORK SURVEY REPORT. ELECTRICAL CIRCUITS WITH A PORTION OF THE LOAD REMOVED SHALL HAVE THE REMOVED LOADS ASSOCIATED CIRCUITRY TERMINATED IN SUCH A MANNER THAT THE REMAINING LOAD REMAINS FULLY OPERATIONAL.
5. THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR SALVAGED MATERIAL. REQUEST THAT THE OWNER PROVIDE DIRECTION ON DISPOSITION OF SALVAGED MATERIAL FIVE(5) WORKING DAYS PRIOR TO REMOVAL. IF SO DIRECTED BY THE OWNER, SALVAGED MATERIAL SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED BY THE CONTRACTOR TO A LOCATION AS DIRECTED. REMOVE AND DISPOSE ANY SALVAGED MATERIAL NO RETAINED BY THE OWNER.
6. UNLESS OTHERWISE NOTED, DEMOLISH ELECTRICAL DEVICES, INCLUDING BUT NOT LIMITED TO: POWER OUTLETS, WIRING, RACEWAYS, PANELBOARDS, LIGHTING DEVICES, EQUIPMENT CONTROL DEVICES AND POWER CONNECTIONS TO PLUMBING EQUIPMENT SCHEDULED FOR DEMOLITION.
7. DRAWINGS INDICATE APPROXIMATE LOCATION AND QUANTITY OF ELECTRICAL SERVICES, PANELS, TRANSFORMERS, DISCONNECTS, ETC. TO BE REMOVED AND VERIFY LOCATION AND QUANTITY OF ITEMS TO BE REMOVED. NO ALLOWANCE WILL BE MADE BECAUSE OF CONTRATOR'S UNFAMILIARITY WITH THE DETAILS.
8. EQUIPMENT, RECEPTACLES, LIGHTS AND TELEPHONE OUTLETS SCHEDULED FOR DEMOLITION SHALL HAVE THEIR ASSOCIATED CIRCUITRY REMOVED. ASSOCIATED CIRCUITRY IS DEFINED AS ALL WIRE, CONDUIT, J-BOXES, DEVICE BOXES, WIRING DEVICES, COVER PLATES, PROTECTIVE DEVICES, PANELS, ETC. ASSOCIATED WITH THE ITEM SCHEDULED FOR REMOVAL. CONDUIT FOR ITEMS SCHEDULED FOR REMOVAL AND IN INACCESSIBLE AREAS SHALL BE EMPTIED AND SEALED OR OTHERWISE TERMINATED IN A SAFE MANNER ACCEPTABLE TO THE OWNER.
9. DAMAGED AREAS CAUSED BY REMOVAL OF ANY OF THE ABOVE ITEMS AND WHICH ARE NOT CONCEALED BY NEW CONSTRUCTION SHALL BE REPAIRED TO MATCH ADJACENT SURFACES. OPENINGS CREATED BY THE REMOVAL OF THESE ITEMS THROUGH FIRE RATED WALLS SHALL BE FIRE STOPPED.
10. REMOVE ABANDONED CONDUIT TO POINT OF CONCEALMENT BEHIND INACCESSIBLE SURFACES. ENTIRELY REMOVE ABANDONED WIRING.
11. PROVIDE BLANK COVERS AND PLATES AT UNUSED OPENINGS IN BOXES, RACEWAYS, AUXILIARY GUTTERS, CABINETS, EQUIPMENT CASES AND HOUSINGS SHALL BE CLOSED TO AFFORD PROTECTION SUBSTANTIALLY EQUIVALENT TO THE EQUIPMENT ENCLOSURE.
12. IF A CONDUIT RUN IS EXPOSED OR A SURFACE RACEWAY LEFT WITHOUT A MOUNTING SURFACE DUE TO THE REMOVAL OF A PARTITION, THE RACEWAY SHALL BE REROUTED AS ACCEPTABLE TO THE OWNER/ARCHITECT.
13. PROTECT ELECTRICAL EQUIPMENT, OUTLETS, DEVICES THAT ARE SCHEDULED TO BE RELOCATED. REPAIR, RESTORE OR REPLACE ITEMS DAMAGED WHEN REMOVED TO THE APPROVAL OF THE OWNER. NOTIFY OWNER/ARCHITECT/ENGINEER OF ANY ELECTRICAL EQUIPMENT, OUTLETS AND/OR DEVICES WHICH ARE SCHEDULED TO BE RE-USED THAT ARE FOUND TO BE UNUSABLE.
14. CONTRACTOR SHALL UPDATE PANELBOARD DIRECTORIES AT EACH PANEL WHERE CIRCUIT MODIFICATIONS ARE MADE.

DEMOLITION KEYED NOTES: (THIS SHEET ONLY)

1. LIMITS OF CONSTRUCTION SHOWN AS L.O.C. THERE IS NO ELECTRICAL WORK IN THIS AREA.

TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

CNG ENGINEERING
MEP DESIGN PLANNING COMMISSIONING
1917 N NEW BRAUNFELS AVE, SUITE 201
SAN ANTONIO, TEXAS 78208
T 210.224.8841 F 210.224.8224
www.cngengineering.com
TBPE FIRM # F-7964

MICHAEL L. REISE
122366
LICENSED
PROFESSIONAL ENGINEER
5/16/19

CNG ENGINEERING, PLLC.
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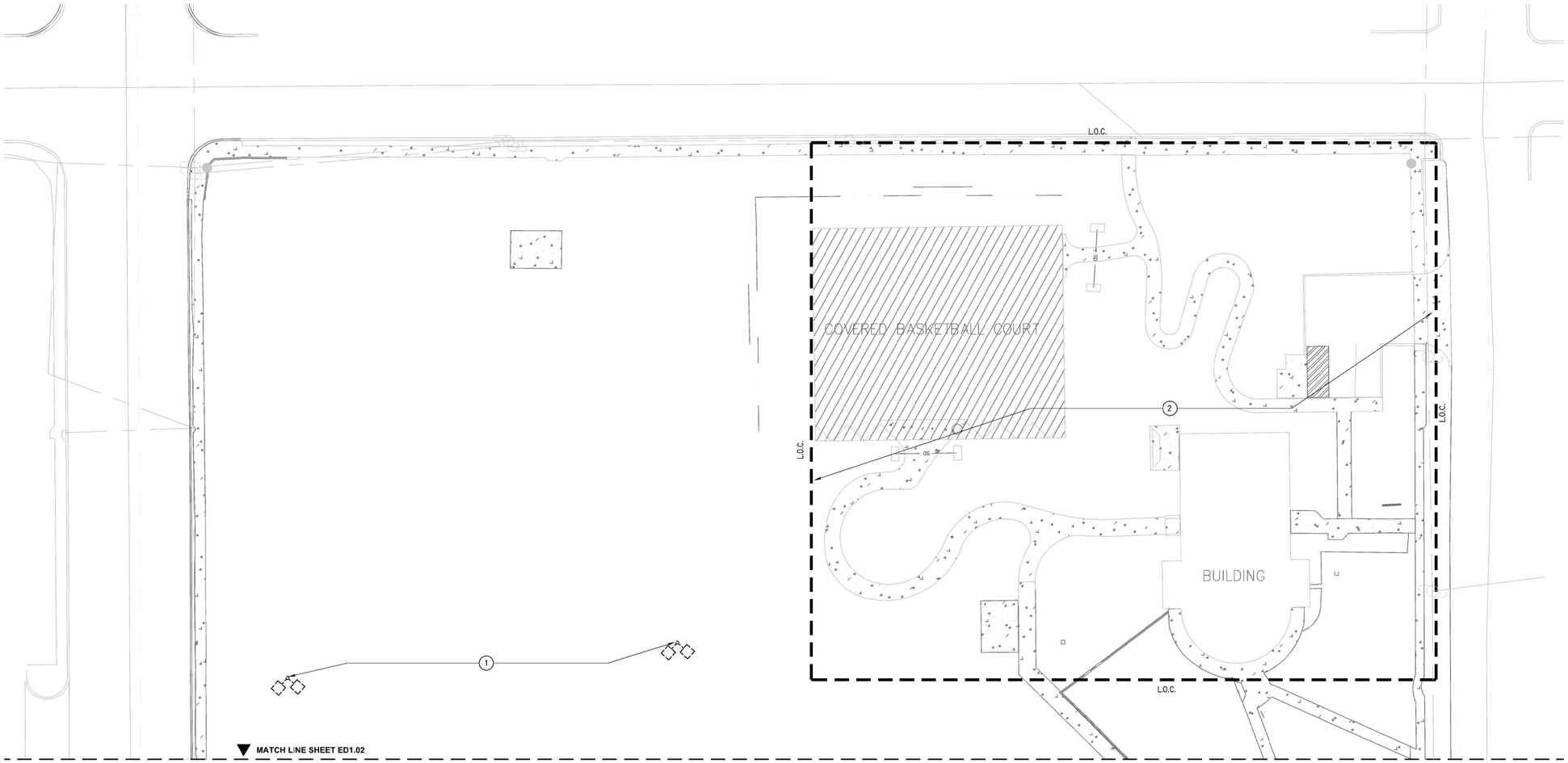
designed: R.O
drawn: K.S / J.G
reviewed: M.R

sheet title
SITE PLAN ELECTRICAL DEMOLITION

sheet
ED1.00

ⓕ DEMOLITION KEYED NOTES: (SHEET ED1.01 ONLY)

1. REMOVE/DEMOLISH ASSOCIATED LIGHTING, POLE, CONDUIT AND WIRING BACK TO SERVICE. REMOVE ASSOCIATED CONCRETE FOOTING FOR POLE.
2. L.O.C. INDICATES LIMITS OF CONSTRUCTION. THERE IS NO ELECTRICAL WORK INSIDE THIS AREA.



1 PARTIAL ENLARGED SITE PLAN - AREA 'A' ELECTRICAL DEMOLITION
SCALE: 1" = 20' - 0"

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TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

CNG ENGINEERING
MEP DESIGN PLANNING COMMISSIONING
1917 N NEW BRAUNFELS AVE, SUITE 201
SAN ANTONIO, TEXAS 78208
T 210.224.8841 F 210.224.8224
www.cngengineering.com
TBPE FIRM # F-7964

STATE OF TEXAS
MICHAEL L. REISE
122366
LICENSED
PROFESSIONAL ENGINEER
9/16/19

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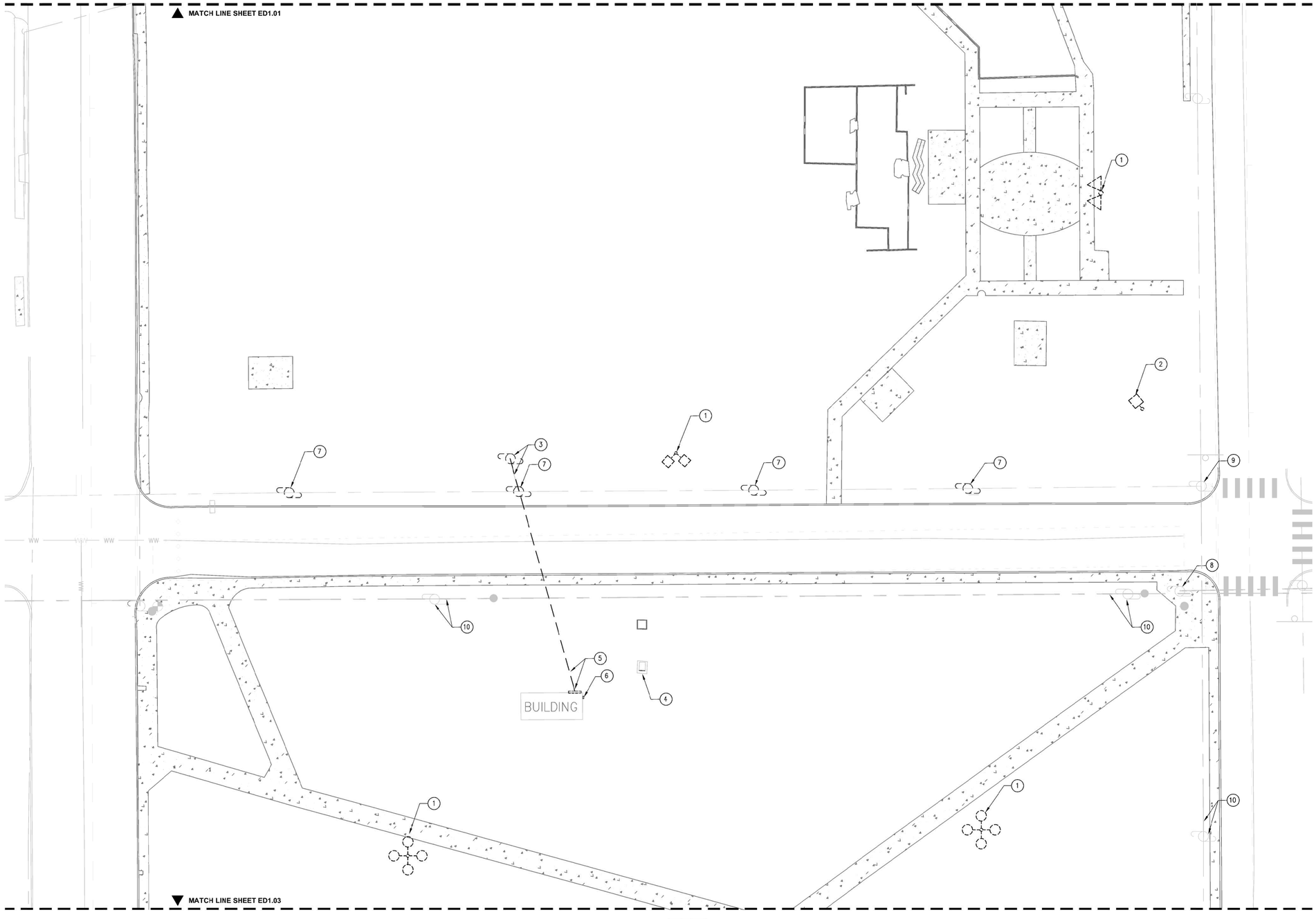
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drawn: K.S / J.G
reviewed: M.R

sheet title
ENLARGED SITE PLAN - AREA 'A' ELECTRICAL DEMOLITION

sheet
ED1.01

(#) DEMOLITION KEYED NOTES: (SHEET ED1.02 ONLY)

1. REMOVE/DEMOLISH ASSOCIATED LIGHTING, POLE, CONDUIT AND WIRING BACK TO SERVICE. REMOVE ASSOCIATED CONCRETE FOOTING FOR POLE.
2. EXISTING SECURITY LIGHT AND POLE WITH ASSOCIATED SECONDARY DROP TO BE REMOVED BY CPS ENERGY. REFER TO CIVIL DRAWINGS.
3. REMOVE EXISTING ELECTRICAL SERVICE, METER, DISCONNECT, AND AERIAL DROP AT CPS ENERGY TRANSFORMER POLE.
4. REMOVE ASSOCIATED ELECTRICAL DISCONNECT, CONDUIT, AND WIRING TO EXISTING IRRIGATION PUMP.
5. REMOVE ELECTRICAL SERVICE ON HISTORIC BUILDING ON NORTH WALL. CPS ENERGY TO REMOVE SECONDARY AERIAL FEED. REMOVE EXISTING ELECTRICAL PANELS.
6. IRRIGATION CONTROLLER ON EAST WALL OF HISTORIC STONE BUILDING TO BE REMOVED. REMOVE ALL ASSOCIATED WIRING AND CONNECTION TO THE CONTROLLER BACK TO THE SOURCE.
7. EXISTING OVERHEAD PRIMARY AND POWER POLES TO BE REMOVED BY CPS ENERGY OVERHEAD COMMUNICATION CABLES TO BE REMOVED BY UTILITY VENDORS. REFER TO CIVIL DRAWINGS FOR COMPLETE REQUIREMENTS.
8. EXISTING ELECTRICAL SERVICE, METER, DISCONNECT, AND AERIAL DROP AT FOR SAWS EQUIPMENT IS TO REMAIN.
9. EXISTING CPSE POWER POLE WITH AERIAL SECONDARY TO REMAIN TO SERVE THE SAWS SERVICE. COORDINATE WITH THE ARCHITECT AND CIVIL ENGINEER.
10. EXISTING HIGH VOLTAGE TRANSMISSION LINE AND STRUCTURES ARE TO REMAIN.



1 PARTIAL ENLARGED SITE PLAN - AREA 'B' ELECTRICAL DEMOLITION
SCALE: 1" = 20' - 0"

NORTH

TBG
landscape architects, planners & designers
1705 guadalupe street
suite 500
austin, tx 78701
[512] 327-1011
tbgpartners.com

CNG ENGINEERING
MEP DESIGN PLANNING COMMISSIONING
1917 N NEW BRAUNFELS AVE, SUITE 201
SAN ANTONIO, TEXAS 78208
T 210.224.8841 F 210.224.8224
www.cngengineering.com
TBPE FIRM # F-7964

STATE OF TEXAS
MICHAEL L. REISE
122366
LICENSED
PROFESSIONAL ENGINEER
5/15/19
CNG ENGINEERING, PLLC.
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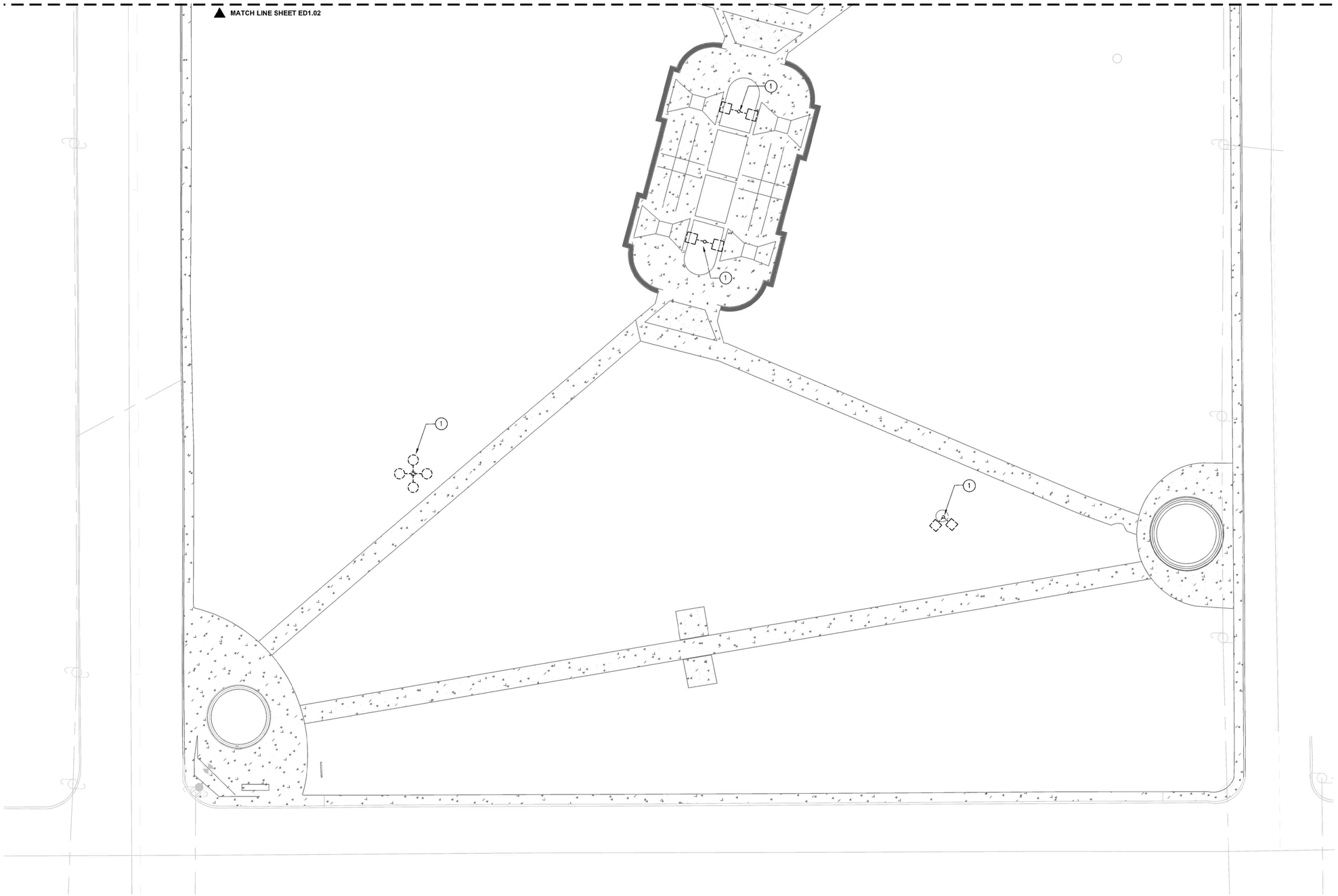
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reviewed: M.R

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ENLARGED SITE PLAN - AREA 'B' ELECTRICAL DEMOLITION

sheet
ED1.02

(#) DEMOLITION KEYED NOTES: (SHEET ED1.03 ONLY)

1. REMOVE/DEMOLISH ASSOCIATED LIGHTING, POLE, CONDUIT AND WIRING BACK TO SERVICE AND POINT OF CONNECTION. REMOVE ASSOCIATED CONCRETE FOOTING FOR POLE.



1 PARTIAL ENLARGED SITE PLAN - AREA 'C' ELECTRICAL DEMOLITION
SCALE: 1" = 20' - 0"

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TBG

landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

CNG ENGINEERING
MEP DESIGN PLANNING COMMISSIONING
1917 N NEW BRAUNFELS AVE, SUITE 201
SAN ANTONIO, TEXAS 78208
T 210.224.8861 F 210.224.8224
www.cngengineering.com
TBPE FIRM # F-7964

STATE OF TEXAS
MICHAEL L. REISE
122366
LICENSED
PROFESSIONAL ENGINEER
07/16/19

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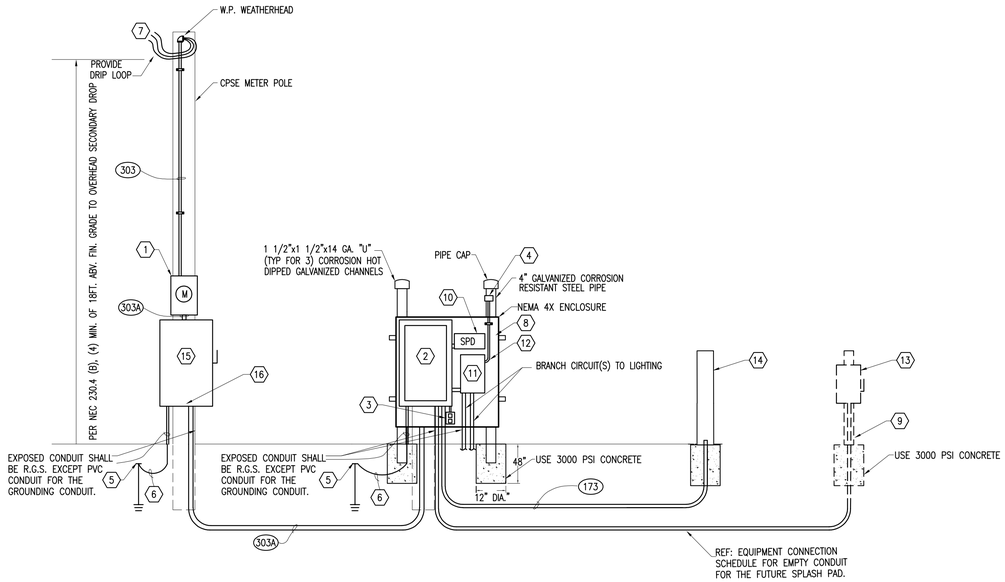
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ENLARGED SITE PLAN - AREA 'C' ELECTRICAL DEMOLITION

sheet
ED1.03



1 ELECTRICAL RISER DIAGRAM

SCALE: N.T.S.

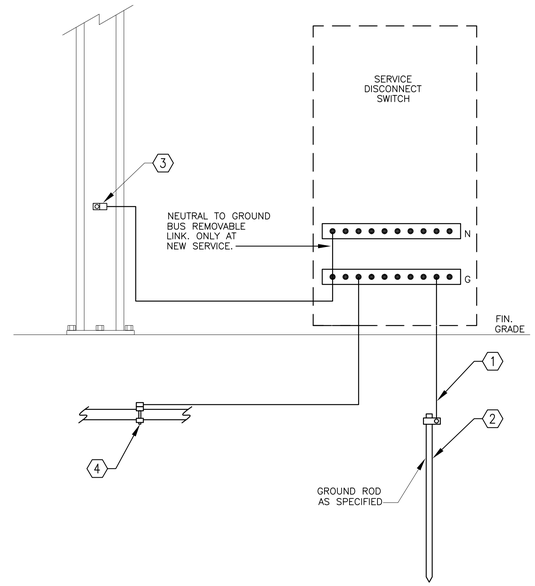
KEYED NOTES: (THIS SHEET ONLY)

1. CPS ENERGY SELF-CONTAINED METER. PROVIDED BY CPSE ENERGY, INSTALLED BY THE CONTRACTOR.
2. ELECTRICAL PANEL 'L1'. CONNECT CIRCUIT THROUGH NEW LIGHTING CONTACTORS FOR CONTROL. BOND GROUND AND NEUTRAL AT THIS LOCATION ONLY. REF. PANELBOARD SCHEDULE FOR PANELBOARD SPECIFICATION.
3. RECEPTACLE MOUNTED 24" ABOVE FIN. GRADE IN A W.P. JUNCTION BOX WITH "IN-USE" COVER. CONNECT TO BRANCH CIRCUIT L-5.
4. PROVIDE PHOTOCELL FOR CONTROL OF LIGHTING EQUAL TO A ACUITY CAT. NO. PCELL2WO.
5. PROVIDE 5/8" DIA. x 8'ø LONG COPPER CLAD GROUND ROD.
6. 1 #2 G.E.C. IN 3/4"C. PROVIDE EXOTHERMIC CONNECTION BETWEEN GROUNDING ELECTRODE AND GROUND ROD.
7. NEW SERVICE RISER. SERVICE ENTRANCE CONDUCTORS TO EXTEND A MINIMUM OF 24" OUTSIDE OF SERVICE HEAD FOR CONNECTION TO CPSE AERIAL SECONDARY SERVICE. SERVICE DROP, CONNECTORS AND ANCHORAGE TO BE FURNISHED AND INSTALLED BY CPS ENERGY WHEN THE SERVICE IS INSTALLED.
8. SERVICE EQUIPMENT RACK TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. CONDUITS TO BE SUPPORTED BY BRACING AS REQUIRED.
9. STUB UP AND CAP EMPTY CONDUIT WITH PULLCORD COILED IN CONDUIT FOR FUTURE SPLASH PAD.
10. SUPPLY A COMMERCIAL GRADE SURGE PROTECTION DEVICE WITH NEUTRAL AND GROUND WIRES. INSTALL ARRESTOR DELTA MODEL #LA302RG LIGHTING PROTECTOR WITH NEUTRAL AND GROUND OR APPROVED EQUAL.
11. PROVIDE LIGHTING CONTACTORS, PHOTOCELL AND TIME SWITCH FOR EXTERIOR LIGHTING CONTROLS OF ALL SITE LIGHTING. REFER TO THE LIGHTING CONTROL DIAGRAM DETAIL 5/E5.01 FOR FOR REQUIREMENTS AND REFER TO LIGHTING CONTROL SPECIFICATIONS. PROVIDE A 120V POWER SUPPLY TO THE TIMER/CONTACTOR BRANCH CIRCUIT AT PANEL 'L1'.
12. 3/4"C. – 2#12 CU & 1#12 GND.
13. ADDITIVE ALTERNATE #1 – FUTURE SPLASH PAD AND EQUIPMENT. PROVIDE AN EMPTY CONDUIT WITH PULLCORD FOR FUTURE USE TO SERVE THE SPLASH PAD.
14. POWER PEDESTAL WITH RECEPTACLES FOR FOR MUSIC EVENTS AND FOOD SERVICE VENDOR TRUCKS. REFER TO DETAIL 1/E5.01 FOR SPECIFICATIONS AND REQUIREMENTS.
15. 400 AMP/2P/240V NEMA 3R FUSIBLE DISCONNECT SWITCH FUSED A 350 AMPS WITH CLASS RK1 FUSES.
16. PROVIDE GROUND AND NEUTRAL LINK BONDING AT MAIN SERVICE DISCONNECT PANEL PER NEC.

GENERAL NOTES: (THIS SHEET ONLY)

A. EQUIPMENT SHALL BE MOUNTED ON CPSE SERVICE METER POLE WITH WEATHERHEAD AND SECONDARY DROP. SEE SHEET E 1.02 FOR INSTALLATION LOCATION, AND CONFIRM WITH OWNER/ARCHITECT. ENSURE THAT EQUIPMENT IS MOUNTED PROPERLY PER NEC 2017, AND ALL CONNECTIONS ARE WEATHERPROOF.

B. ALL SERVICE EQUIPMENT INCLUDING METER AND SECONDARY SHALL BE INSTALLED PER CPS ENERGY REQUIREMENTS.



2 SERVICE ENTRANCE GROUNDING DETAIL

SCALE: N.T.S.

WIRE CONNECTION SCHEDULE: (THIS SHEET ONLY)

(173) (3)#3/0, (1)#4 GND., 2"C

(303) (3)-350 KCMIL IN 3"C

(303A) (3)-350 KCMIL AND 1# 4 GND. IN 3"C

KEYED NOTES: (DETAIL 2 ONLY)

1. COPPER GROUNDING ELECTRODE CONDUCTOR IN 3/4" PVC TO EXOTHERMIC CONNECTION COPPER CLAD STEEL GROUND ROD AT IRRIGATED AREA. SERVICE NO. 1: #2 GEC, SERVICE NO. 2: #1/0 GEC.
2. 3/4" DIA. X 8'-0" LONG COPPER CLAD GROUND ROD.
3. COPPER GROUNDING ELECTRODE CONDUCTOR TO EXOTHERMIC CONNECTION AT STEEL. PROVIDE CONDUIT PROTECTION FOR SECTION BELOW 8' AFF. CONDUCTOR SIZE PER NOTE 1.
4. COPPER GROUNDING ELECTRODE CONDUCTOR IN 3/4"C TO EXOTHERMIC CONNECTION AT METAL WATER PIPE. CONDUCTOR SIZE PER NOTE 1.

ANALYSIS OF PROJECTED ELECTRICAL LOAD
DIGNOWITY PARK

3/8/2019

SERVICE VOLTAGE: 240/120V, 1Ph., 3W

LOAD DESCRIPTION	CONNECTED LOAD, VA	NEC LOAD kVA	NEC LOAD AMPERES
NEW OR ADDED LOADS			

LOAD DESCRIPTION	DEMAND FACTOR	NOTES	CONNECTED LOAD, kVA	NEC LOAD kVA	NEC LOAD AMPERES
GENERAL PURPOSE RECEPTACLES	1.00	2	0.5	0.5	2
EXTERIOR LIGHTING	1.25		1.3	1.6	7
EQUIPMENT	1.00	1,2	24.9	24.9	104
25% OF LARGEST MOTOR	0.25		2.0	0.5	2
CONNECTED NEW LOADS SUBTOTAL			**29**	**28**	**115**
NET SUBTOTAL OF NEW AND EXISTING LOADS				34	143
LOAD GROWTH ALLOWANCE	25%			9	36
TOTAL				**43**	**179**
SERVICE ENTRANCE DESIGN (400A FUSED DISCONNECT SWITCH)				75	**400**

NOTES: 1 EQUIPMENT LOAD INLCUDES ESTIMATED LOAD FOR SPLASH PAD TO BE CONFIRMED.
2 EQUIPMENT LOAD INCLUDES A POWER PEDESTAL FOR MUSIC VENUE EVENT AT PARK AREA.

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landscape architects, planners & designers

1705 guadalupe street
suite 500
austin, tx 78701

[512] 327-1011
tbgpartners.com

CNG ENGINEERING
MEP DESIGN PLANNING COMMISSIONING
1917 N NEW BRAUNFELS AVE, SUITE 201
SAN ANTONIO, TEXAS 78208
T 210.224.8841 F 210.224.8224
www.cngengineering.com
TBPE FIRM # F-7964

STATE OF TEXAS
MICHAEL L. REISE
122366
LICENSED
PROFESSIONAL ENGINEER
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designed: R.O
drawn: K.S / J.G
reviewed: M.R

sheet title
ELECTRICAL RISER DIAGRAM, AND LOAD ANALYSIS

sheet
E 3.01

NEW PANELBOARD 'L1'

PROJECT : DIGNOWITY PARK
PROJECT # : 0017-18
LOCATION : Rack Cabinet Enclosure
NOTES :

MAIN CIRCUIT BREAKER : 400A
MAIN LUGS ONLY :
BUSSING : 400A
VOLTAGE : 120/240V, 1-PH, 3-W
INTERRUPTING : 25 kAIC RMS SYM

ENCLOSURE : NEMA 3R
MOUNTING : SURFACE
OCP TYPES : BOLT-ON
PROVIDE : NEUTRAL BUS
GROUND BUS

0	RCPT	5	HEAT
1	INT LTG	6	A/C
2	EXT LTG	7	KITCH
3	EQPT	8	ELEV
4	FANS	9	EWH

CKT	AMPS	POLE	CIRCUIT DESCRIPTION	LOAD	TYPE	PH	TYPE	LOAD	CIRCUIT DESCRIPTION	AMPS	POLE	CKT
1	20	2	PEDESTRIAN LTG	80	2	A	3	12,000	POWER PEDESTAL (MUSIC EVENT)	100	2	2
3				80	2	B	3	12,000				4
5	20	2	PEDESTRIAN LTG	80	2	A	0	360	GFCI QUAD DUPLEX RECEPTACLE	20	1	6
7				80	2	B	3	150	LIGHTING CONTACTOR/T.SWITCH (N1)	20	1	8
9	20	2	CURVED WALKWAY BOLLARD LTG	100	2	A	0	180	WP/GFCI RECEPTACLE	20	1	10
11				100	2	B			SPARE	20	1	12
13	20	2	CURVED WALKWAY BOLLARD LTG	100	2	A			SPLASHPAD (PUMPS) (ALT) (N3)	50	2	14
15				100	2	B						16
17	20	1	FESTOON LIGHTING	240	2	A	3	600	IRRIGATION CONTROLLER	20	1	18
19	20	1	FESTOON LIGHTING	240	2	B			SPARE	20	1	20
21	20	2	FRONT PORCH BOLLARDS	50	2	A			SPARE	20	1	22
23				50	2	B			SPARE	20	1	24
25	20	1	SPARE			A			BUSSED SPACE	-	-	26
27	20	1	SPARE			B			BUSSED SPACE	-	-	28
29	20	1	SPARE			A			BUSSED SPACE	-	-	30
31	-	-	BUSSED SPACE			B			BUSSED SPACE	-	-	32
33	-	-	BUSSED SPACE			A			BUSSED SPACE	-	-	34
35	-	-	BUSSED SPACE			B			BUSSED SPACE	-	-	36
37	-	-	BUSSED SPACE			A			BUSSED SPACE	-	-	38
39	-	-	BUSSED SPACE			B	3	60	SURGE PROTECTIVE DEVICE	60	2	40
41	-	-	BUSSED SPACE			A	3	60				42

	PANEL VA	SUB FEED	FEED THRU	TOTAL CONN	TOTAL DEMAND VA	TOTAL DEMAND AMPS
PHASE A	13,850	0	0	13,850	14,019	117
PHASE B	12,860	0	0	12,860	13,016	108
TOTAL	26,710	0	0	26,710	27,035	113

NOTES :
1. PROVIDE A HANDLE LOCK ON CIRCUIT BREAKER IN "ON POSITION".
2. ALTERNATE - FUTURE EQUIPMENT

REVISIONS: *CNG ENGINEERING, PLLC. R3.1 - Nov. 4*

SERVICE SHORT CIRCUIT CALCULATIONS

TRANSFORMER AMPS= (240V, 1PH) $\frac{50\ KVA\ X\ 1000}{(240V)}$ =208.3 AMPERES

MULTIPLIER = $\frac{100}{1.52\ \%\ X\ 0.9}$ = 74.07 MULTIPLIER

Isco =208.3 A. X 74.07 = 15,431 AMPERES

MINIMUM AIC RATING & BRACING = 25,000 SYM. AMPERES

LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS	MOUNTING	MOUNTING HEIGHT	VOLTS	WATTS	DESCRIPTION	MANUFACTURER AND CATALOG NO.	NOTES
S1	4000k 1855 LUMENS 85 CRI, LED	POST TYPE ON CONC. FOOTING	12	240V	19	PEDESTRIAN LUMINAIRE: SINGLE DIE CAST ALUMINUM HOUSING AND SLIP FITTER FITS OVER 3" OD POLE TOP. CAST ALUMINUM ENCLOSURE. TEMPERED CLEAR GLASS LENS. ANODIZED CLEAR ALUMINUM REFLECTOR. FULLY SHIELDED AND GASKETED FOR WEATHER TIGHT OPERATION. 240V INTEGRAL LED DRIVER. POLYESTER POWDER COAT FINISH. COLOR SHALL BE AS SELECTED BY ARCHITECT: BLACK, BRONZE, WHITE AND SILVER. WET LOCATION LISTED AND IP65 CLASS PROTECTION. EPA =0.32 SQ. FT. POLE SHALL BE 12 FT ROUND STRAIGHT ALUMILNUM POLE WITH FINISH TO MATCH THE LED FIXTURE.	LED FIXTURE: BEGA CAT. NO. 99 402 AND POLE: BEGA CAT. NO. 906HR.	1, 2, 3
S2	4000k 643 LUMENS 80CRI, LED	BOLLARD ON CONC. FOOTING	AT GRADE ON CONC. BASE	240V	10	BOLLARD LUMINARIE: 7.5" DIA. X 39" HGT. X 11" FIXTURE WIDTH. ONE PIECE EXTRUDED ALUMINIUM INTERALLY WELDED POST (BOLLARD) WITH LED LAMP. POLYCARBONATE DIFFUSER WITH OPTICAL TEXTURE. FULLY GASKETED WITH ONE PIECE MOLDED HIGH TEMPERATURE SILICONE GASKET. HEAVY CAST ALUMINUM ANCHOR BASE PLATE. FINSH SHALL BE AS SELECTED BY THE ARCHITECT: BLACK, BRONZE, WHILTE, SILVER. WET LOCATION LISTED AND IP65 CLASS PROTECTION.	BEGA CAT. NO. 77 221 AND ANCHOR PLATE: CAT. NO. 79817	1, 2, 3
S3	2700K 90 LUMNENS VERY HIGH OUTPUT	STEEL POLES & TREE HEIGHT	SUSPENDED 10 FT ABOVE GRADE	120/12VDC	0.96	DECORATIVE FESTOON LIGHTING: THERMALPLASTIC BASE FOR OPTIMAL HEAT DISSIPATION. FITTED O-RING FOR IP65 RATING. SHATTERPROOF UV STABILIZED POLYCARBONATE GLOBE. FESTOON FIXTURES MOUNTED EVERY 24" ON CENTER ON THE FESTOON CABLING WITH HANGARS AND 240 WATT or 180 WATT POWER SUPPLY WITH 120V/24V DC SECONDARY. MAXIMUM RUN LENGTH OF 60 FT FOR EACH RUN PER MFG. PROVIDE POWER LEADS FOR EACH RUN OF FESTTOON LIGHTING TO CONNECT AND REACH TO THE POWER SUPPLY.	TIVOLI CAT NO. LSL-B-24-V-27-C-12 POWER SUPPLY: TIVOLI POWER SUPPLY: CAT # ADNM-320-4-5-12-D CABLE: TIVOLI CAT. NO. LS-CABLE-500. ORDER CABLE LENGTH AS REQUIRED. CABLE LOCKS: TIVIOLI CAT. NO. LS-LOCK-4. PROVIDE TWO PER RUN. TOOL: CAT. NO. LS-TT (TENSIONING TOOL)	1, 2, 3, 4, 5, 6, 7 & 8
S3-A	N.A.	STEEL POLE ON CONC. FOOTING	12 FT POLE	N.A.	N.A.	SQUARE STEEL POLE. 5" SQUARE SHAFT X 12 FT. 11 GAUGE, 3 X 5 HANDHOLE AND GROUND LUG IN POLE. FURNISH WITH FULL BASE COVER AND BLACK POWDER COAT FINISH TO BE CONFIRMED BY THE ARCHITECT. POLE FOR ATTACHMENT OF THE FESTOON LIGHTING SUSPENDED FROM POLE TO POLE OR FROM POLE TO TREE. CONTRACTOR SHALL PROVIDE STAINLESS STEEL TYPLE 316 EYE BOLTS AND STRAIN INSULATORS FOR EACH RUN OF FESTOON LIGHTING.	KW INDUSTRIES CAT. NO. SSP12-5-0-11. BLACK POWDER PAINTED FINISH. HAAS STAINLESS STEEL TYPE 316 WELDED EYE BOLTS	1, 2, 3, 4, 7 & 8
S3-B	N.A.	SUSPENDED BETWEEN TREES	12 FT AT TREES	N.A.	N.A.	CONTRACTOR SHALL PROIVDE STEEL EYE-BOLTS FOR ATTACHING THE MESSENGER AND LOW VOLTAGE CABLES TO THE TREE. EYE BOLT AND STRAINI INSULATORS IS REQUIRED FOR EACH FESTOON LIGHTING RUN. BOLTS: 1/4" X 1-1/2". PROIVDED WITH NUT AND WASHER. VERIFY SIZE BEFORE ORDERING.	HAAS STAINLESS STEEL TYPE 316 WELDED EYE BOLTS	1, 2, 3, 4, 7 & 8

LIGHTING FIXTURE SCHEDULE NOTES:
1. ALTERNATE EQUIVALENT MANUFACTURERS MAY BE SUBMITTED TO BASIS OF DESIGN BY APPROVAL. ACCEPTANCE TO BE DETERMINED BY EOR.
2. ALL POLES, FIXTURES, ACCESSORIES AND EPA RATINGS SHALL BE CONFIRMED BY THE MANUFACTURER AND REVIEWED IN SUBMITTAL PHASE.
3. FINISH COLOR OF POLES AND LUMINAIRES SHALL MATCH. PROVIDE DARK BRONZE COLOR UNLESS OTHERWISE DIRECTED BY ARCHITECT DURING SUBMITTAL REVIEW.
4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR TYPE S3 FIXTURES PER THE PROJECT INSTALLATION REQUIREMENTS.
5. THE FESTOOON (CATENARY) LIGHTING SHALL BE PROVIDED IN THE LENGTHS SHOWN ON THE DRAWINGS. FESTOON LIGHTING SHALL BE INCLUDED WITH THE MANUFACTURER'S LOW VOLTAGE CABLING IN LENGTH REQUIRED FOR EACH RUN.
6. IN ACCORDANCE WITH NEC 225.4 (B) PROVIDE A MESSENGER CABLE WITH EACH RUN OF FESTOON LIGHTING. FESTOON LOW VOLTAGE WIRING SHALL INCLUDE THIS SUPPORT CABLE.
7. THE ENTIRE INSTALLATION OF THE FESTOON LIGHTING SHALL BE INSTALLED PER THE MANUFACTURER REQUIREMENTS AND MEET NEC ARTICLE 225.6 (B) REQUIREMENTS.
8. THE CONTRACTOR SHALL PROIVDE THE REQUIRED NUMBER OF POWER SUPPLY UNITS TO FEED THE LOW VOTLAGE FESTOON LIGHTING.

EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT TAG	VOLTAGE / PHASE	MOTOR (HP)	EQUIPMENT (FLA)	EQUIPMENT (MCA)	MOCP	DISCONNECTING MEANS	ENCLOSURE NEMA RATING	WIRE & CONDUIT	CIRCUIT NUMBER	NOTES
"FUTURE" SPLASH PAD PUMP	240/1	5	28.0	35.0	50.0	240V, 60A, NF, HD	N4X	2 #8, 1#10 GND, IN 1"C.	L1-14,16'	1,2, & 3

31-Jul

NOTES:

1. DISCONNECT SWITCH PROVIDED , INSTALLED, AND WIRED THROUGH DIVISION 26.
2. CONTROL PANEL PROVIDED BY SPLASH PAD CONTRACTOR/INSTALLER. INSTALL AND WIRE THROUGH DIVISION 26 TO SINGLE POINT POWER SUPPLY.
3. PUMP IS AN ADDITIVE ALTERNATE BID ITEM. INFORMATION FOR PUMP IS FOR PRICING ONLY AND NOT FOR INSTALLATION.

GENERAL NOTES:

1. VERIFY ELECTRICAL REQUIREMENTS WITH MECHANICAL / PLUMBING EQUIPMENT SUBMITTALS PRIOR TO ELECTRICAL ROUGH-IN.

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SAN ANTONIO, TEXAS 78208
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STATE OF TEXAS
MICHAEL L. REISE
122366
LICENSED
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project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

issue date
november 8, 2019

designed: R.O
drawn: K.S / J.G
reviewed: M.R

sheet title
LIGHTING FIXTURE AND PANEL SCHEDULES

sheet
E 4.01

Progressive Voltage Drop Worksheet (Circuit # L1-1,3)

Project Name: Dignowity Lockwood Park
Project Number: 0017-18
Date: July 31, 2019
Designer: R. Ochoa

Section Length (Ft)	Starting Volts	Phase	Section Load (A)	Conductor per Phase	Conductor Size	Resistance	Section V-Drop (V)	Total V-Drop (V)	Percent Drop for Section	Percent Drop Total	Final Voltage
104	240	1	0.70	2	10 AWG	2.04	0.15	0.15	0.06%	0.06%	239.85
118	239.85	1	0.55	2	10 AWG	2.04	0.13	0.28	0.06%	0.12%	239.72
92	239.72	1	0.47	2	10 AWG	2.04	0.09	0.37	0.04%	0.15%	239.63
63	239.63	1	0.08	2	10 AWG	2.04	0.01	0.38	0.00%	0.16%	239.62
75	239.63	1	0.07	2	10 AWG	2.04	0.01	0.38	0.00%	0.16%	239.62
113	239.62	1	0.31	2	10 AWG	2.04	0.07	0.45	0.03%	0.19%	239.55
111	239.55	1	0.15	2	10 AWG	2.04	0.03	0.49	0.01%	0.20%	239.51
63	239.51	1	0.07	2	10 AWG	2.04	0.01	0.49	0.00%	0.21%	239.51
132	239.51	1	0.07	2	10 AWG	2.04	0.02	0.50	0.01%	0.21%	239.50

Progressive Voltage Drop Worksheet (Circuit #5,7)

Project Name: Dignowity Lockwood Park
Project Number: 0017-18
Date: July 31, 2019
Designer: R. Ochoa

Section Length (Ft)	Starting Volts	Phase	Section Load (A)	Conductor per Phase	Conductor Size	Resistance	Section V-Drop (V)	Total V-Drop (V)	Percent Drop for Section	Percent Drop Total	Final Voltage
40	240	1	0.87	2	10 AWG	2.04	0.07	0.07	0.03%	0.03%	239.93
52	239.93	1	0.79	2	10 AWG	2.04	0.08	0.15	0.03%	0.06%	239.85
121	239.85	1	0.71	2	10 AWG	2.04	0.18	0.33	0.07%	0.14%	239.67
110	239.67	1	0.63	2	10 AWG	2.04	0.14	0.47	0.06%	0.20%	239.53
92	239.53	1	0.55	2	10 AWG	2.04	0.10	0.57	0.04%	0.24%	239.43
91	239.43	1	0.47	2	10 AWG	2.04	0.09	0.66	0.04%	0.28%	239.34
46	239.34	1	0.39	2	10 AWG	2.04	0.04	0.70	0.02%	0.29%	239.30
105	239.34	1	0.07	2	10 AWG	2.04	0.01	0.68	0.01%	0.28%	239.32
102	239.30	1	0.23	2	10 AWG	2.04	0.05	0.75	0.02%	0.31%	239.25
86	239.32	1	0.07	2	10 AWG	2.04	0.01	0.69	0.01%	0.29%	239.31
115	239.25	1	0.07	2	10 AWG	2.04	0.02	0.76	0.01%	0.32%	239.24

Progressive Voltage Drop Worksheet (circuit # L1-9,11)

Project Name:
Project Number:
Date: July 31, 2019
Designer:

Section Length (Ft)	Starting Volts	Phase	Section Load (A)	Conductor per Phase	Conductor Size	Resistance	Section V-Drop (V)	Total V-Drop (V)	Percent Drop for Section	Percent Drop Total	Final Voltage
300	240	1	0.04	2	10 AWG	2.04	0.02	0.02	0.01%	0.01%	239.98
72	239.98	1	0.04	2	10 AWG	2.04	0.01	0.03	0.00%	0.01%	239.97
68	239.97	1	0.04	2	10 AWG	2.04	0.01	0.04	0.00%	0.01%	239.96
63	239.96	1	0.04	2	10 AWG	2.04	0.01	0.04	0.00%	0.02%	239.96
62	239.96	1	0.04	2	10 AWG	2.04	0.01	0.05	0.00%	0.02%	239.95
62	239.95	1	0.04	2	10 AWG	2.04	0.01	0.05	0.00%	0.02%	239.95
60	239.95	1	0.04	2	10 AWG	2.04	0.00	0.06	0.00%	0.02%	239.94
62	239.94	1	0.04	2	10 AWG	2.04	0.01	0.06	0.00%	0.03%	239.94
62	239.94	1	0.04	2	10 AWG	2.04	0.01	0.07	0.00%	0.03%	239.93
62	239.93	1	0.04	2	10 AWG	2.04	0.01	0.07	0.00%	0.03%	239.93
66	239.93	1	0.04	2	10 AWG	2.04	0.01	0.08	0.00%	0.03%	239.92

Progressive Voltage Drop Worksheet (Circuit # L1-13,15)

Project Name:
Project Number:
Date: July 31, 2019
Designer:

Section Length (Ft)	Starting Volts	Phase	Section Load (A)	Conductor per Phase	Conductor Size	Resistance	Section V-Drop (V)	Total V-Drop (V)	Percent Drop for Section	Percent Drop Total	Final Voltage
230	240	1	0.04	1	10 AWG	2.04	0.04	0.04	0.02%	0.02%	239.96
56	239.96	1	0.04	1	10 AWG	2.04	0.01	0.05	0.00%	0.02%	239.95
61	239.95	1	0.04	1	10 AWG	2.04	0.01	0.06	0.00%	0.02%	239.94
64	239.94	1	0.04	1	10 AWG	2.04	0.01	0.07	0.00%	0.03%	239.93
65	239.93	1	0.04	1	10 AWG	2.04	0.01	0.08	0.00%	0.03%	239.92
59	239.92	1	0.04	1	10 AWG	2.04	0.01	0.09	0.00%	0.04%	239.91
61	239.91	1	0.04	1	10 AWG	2.04	0.01	0.10	0.00%	0.04%	239.90
66	239.90	1	0.04	1	10 AWG	2.04	0.01	0.11	0.00%	0.05%	239.89
62	239.89	1	0.04	1	10 AWG	2.04	0.01	0.12	0.00%	0.05%	239.88
65	239.88	1	0.04	1	10 AWG	2.04	0.01	0.13	0.00%	0.05%	239.87
64	239.87	1	0.04	1	10 AWG	2.04	0.01	0.14	0.00%	0.06%	239.86

Progressive Voltage Drop Worksheet (Circuit # L1-19)

Project Name: Dignowity Lockwood Park
Project Number: 0017-18
Date: July 31, 2019
Designer: R. Ochoa

Section Length (Ft)	Starting Volts	Phase	Section Load (A)	Conductor per Phase	Conductor Size	Resistance	Section V-Drop (V)	Total V-Drop (V)	Percent Drop for Section	Percent Drop Total	Final Voltage
275	120	1	2.0	1	10 AWG	2.04	2.24	2.24	1.87%	1.87%	117.76

Progressive Voltage Drop Worksheet (Circuit # L1-17)

Project Name: Dignowity Lockwood Park
Project Number: 0017-18
Date: July 31, 2019
Designer: R. Ochoa

Section Length (Ft)	Starting Volts	Phase	Section Load (A)	Conductor per Phase	Conductor Size	Resistance	Section V-Drop (V)	Total V-Drop (V)	Percent Drop for Section	Percent Drop Total	Final Voltage
185	120	1	2.0	1	10 AWG	2.04	1.51	1.51	1.26%	1.26%	118.49

Progressive Voltage Drop Worksheet (Circuit # L1-21,23)

Project Name: Dignowity Lockwood Park
Project Number: 0017-18
Date: July 31, 2019
Designer: R. Ochoa

Section Length (Ft)	Starting Volts	Phase	Section Load (A)	Conductor per Phase	Conductor Size	Resistance	Section V-Drop (V)	Total V-Drop (V)	Percent Drop for Section	Percent Drop Total	Final Voltage
183	240	1	0.41	2	10 AWG	2.04	0.15	0.15	0.06%	0.06%	239.85
30	239.85	1	0.04	2	10 AWG	2.04	0.00	0.16	0.00%	0.06%	239.84
40	239.84	1	0.33	2	10 AWG	2.04	0.03	0.18	0.01%	0.08%	239.82
54	239.82	1	0.29	2	10 AWG	2.04	0.03	0.21	0.01%	0.09%	239.79
55	239.79	1	0.25	2	10 AWG	2.04	0.03	0.24	0.01%	0.10%	239.76
46	239.76	1	0.20	2	10 AWG	2.04	0.02	0.26	0.01%	0.11%	239.74
30	239.74	1	0.16	2	10 AWG	2.04	0.01	0.27	0.00%	0.11%	239.73
58	239.76	1	0.12	2	10 AWG	2.04	0.01	0.26	0.01%	0.11%	239.74
65	239.74	1	0.08	2	10 AWG	2.04	0.01	0.27	0.00%	0.11%	239.73
61	239.74	1	0.04	2	10 AWG	2.04	0.00	0.26	0.00%	0.11%	239.74

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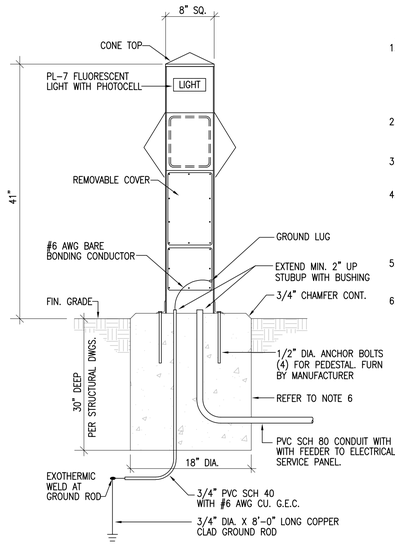
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designed: R.O
drawn: K.S / J.G
reviewed: M.R

sheet title
ELECTRICAL CALCULATIONS

sheet
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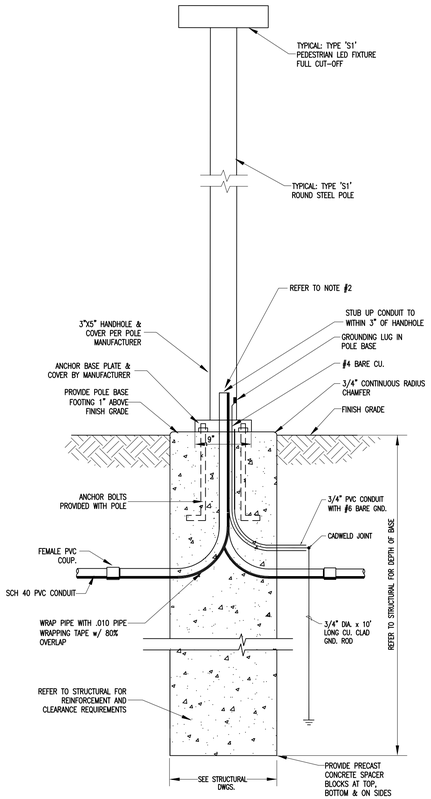


NOTES (DETAIL 1 ONLY):

1. PEDESTAL SHALL BE EQUAL TO A INTERNATIONAL DOCK PRODUCTS INC. CAT. NO. SCPB-41-4A WITH MODIFICATIONS LISTED BELOW FOR COMPLETE ACCESSORIES AND SERVICES. FINISH SHALL BE CAT. NO. RAL-8019
2. PEDESTAL FABRICATED FROM 100% ALUMINUM CASING 8" X 8" X 41" (3/16") POWDER COATED FINISH PER ABOVE.
3. PROVIDE PEDESTAL LOAD CENTER COVER WITH A PADLOCK WITH KEY REQUIREMENTS PER THE OWNER.
4. PEDESTAL SHALL BE A 100 AMPERE PEDESTAL WITH 240/120V, 1 PHASE, POWER SUPPLY:
   (2) 30 AMP TWISTLOCK RECEPTACLES
   (2) 20 AMP TWISTLOCK RECEPTACLES
   (1) 50 AMP TWISTLOCK RECEPTACLE
5. THE CONTRACT OR SHALL SATISFY MEETING THE MANUFACTURER INSTRUCTIONS TO INSURE IT COMPLIES WITH NEC REQUIREMENTS.
6. CONCRTE FOOTING SHALL BE PROVIDED PER STRUCTURAL ENGINEERS DRAWINGS.

BREAKER PANEL AND COVER WITH SQUARE-D CIRCUIT BREAKERS FURNISHED WITH THE POWER PEDESTAL BY THE MANUFACTURER:
(2) 30A/1P CIRCUIT BREAKERS, 10KAIC
(2) 20A/1P CIRCUIT BREAKERS, 10KAIC
(1) 50A/2P CIRCUIT BREAKER, 10KAIC

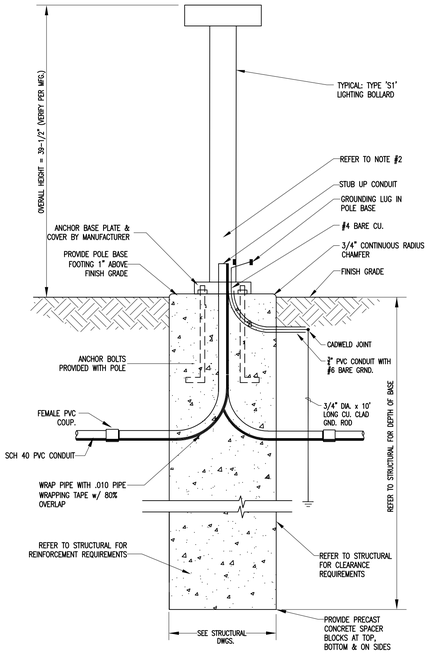
1 POWER PEDESTAL DETAIL
SCALE: N.T.S. 100 AMPERE



NOTES: (DETAIL NO. 2 ONLY)

1. REFER TO STRUCTURAL DRAWINGS FOR POLE BASE DIAMETER, DEPTH CONCRETE, AND REINFORCEMENT REQUIREMENTS.
2. PROVIDE INLINE FUSING IN POLE AT BASE ACCESSIBLE FROM THE HANDHOLE; EQUAL TO A BUSSMAN CAT# HEY-AW-DRLC-A DOUBLE POLE, BREAK AWAY WITH CLASS 'CC1' FUSES.

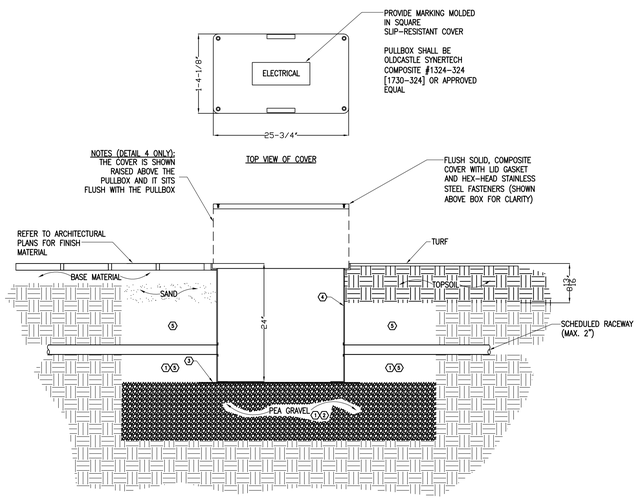
2 PEDESTRIAN LIGHTING CONCRETE FOOTING DETAIL
SCALE: N.T.S.



NOTES: (DETAIL NO. 3 ONLY)

1. REFER TO STRUCTURAL DRAWINGS FOR POLE BASE DIAMETER, DEPTH CONCRETE, AND REINFORCEMENT REQUIREMENTS.
2. PROVIDE INLINE FUSING IN POLE AT BASE ACCESSIBLE FROM THE HANDHOLE; EQUAL TO A BUSSMAN CAT# HEY-AW-DRLC, WITH CLASS 'CC1' FUSES.

3 LIGHT BOLLARD CONCRETE FOOTING DETAIL
SCALE: N.T.S.



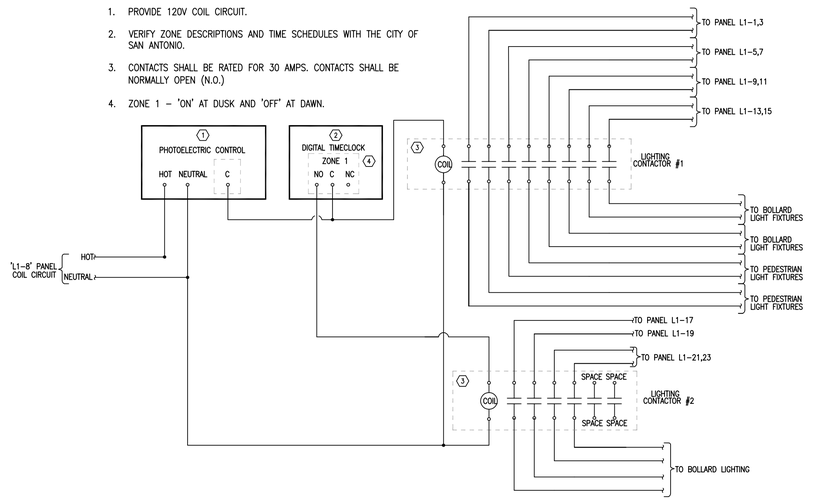
KEYED NOTES (DETAIL 4 ONLY):

1. OVER EXCAVATE 18" ALL AROUND ENCLOSURE AND 12" ADDITIONAL DEPTH.
2. PLACE 1/2" CRUSHED STONE OR PEA GRAVEL AT BASE OF EXCAVATED HOLE.
3. PLACE 1/2" SQUARE GALVANIZED HARDWARE CLOTH BELOW PULLBOX, 6" LARGER IN EACH DIMENSION.
4. INSTALL PULLBOX PER MANUFACTURER'S WRITTEN DIRECTIONS.
5. USE HAND OPERATED MECHANICAL TAMPER TO COMPACT BACKFILL TO SAME.

4 TYPICAL MEDIUM DUTY PULL-BOX DETAIL
SCALE: N.T.S NON-DELIBERATE

NOTES:

1. PROVIDE 120V COIL CIRCUIT.
2. VERIFY ZONE DESCRIPTIONS AND TIME SCHEDULES WITH THE CITY OF SAN ANTONIO.
3. CONTACTS SHALL BE RATED FOR 30 AMPS. CONTACTS SHALL BE NORMALLY OPEN (N.O.)
4. ZONE 1 – 'ON' AT DUSK AND 'OFF' AT DAWN.



5 LIGHTING CONTROL DIAGRAM
SCALE: N.T.S.

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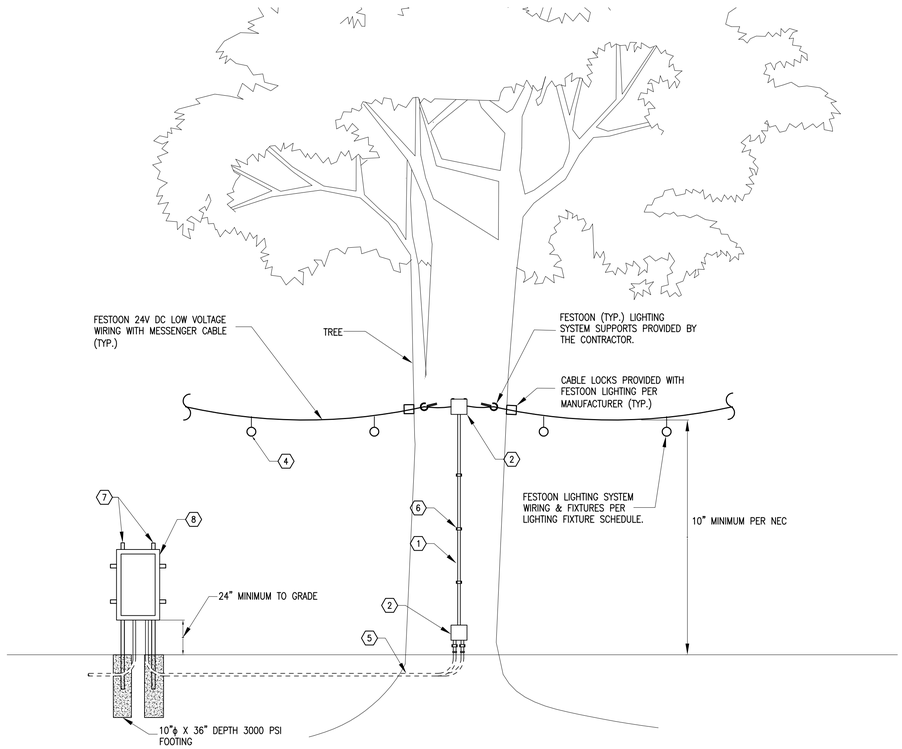
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designed: R.O
drawn: K.S / J.G
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sheet title
ELECTRICAL DETAILS

sheet
E5.01



KEYED NOTES (DETAIL NO.1 ONLY)

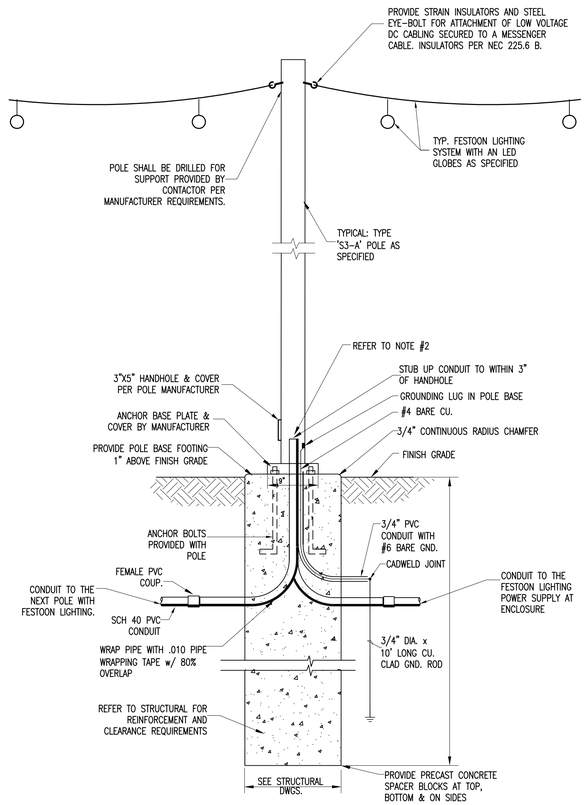
1. PROVIDE 1" LIQUID-TIGHT FLEXIBLE METAL CONDUIT. BRANCH CIRCUITRY WIRING FROM JUNCTION BOX TO FESTOON LIGHTING.
2. 4"x4"x4" DEEP NEMA 3R JUNCTION BOX ANCHORED TO TREE BUT OFFSET 3/8" FROM TREE.
3. COORDINATE AND VERIFY WITH ABORIST AND LANDSCAPE ARCHITECT ON PLACEMENT OF THE FESTOON LIGHTING, FLEXIBLE CONDUIT AND JUNCTION BOXES ON THE TREES.
4. FESTOON LED GLOBE LIGHTING FIXTURE 24" O.C. (TYP.)
5. PROVIDE SCHEDULE 40 PVC AS NOTED IN DRAWINGS. TRANSITION TO LIQUID TIGHT FLEXIBLE METAL CONDUIT AT BASE OF TREE.
6. TYPICAL MOUNTING STRAPS TO BE OFFSET A MINIMUM OF 3/8" FROM TREE.
7. 2" DIAMETER STEEL PIPE SUPPORTS & HOT DIPPED GALVANIZED STEEL CORROSION RESISTANT 'U' CHANNEL SUPPORTS.
8. N4X ENCLOSURE (20" W X 20" HGT. X 6" DEPTH) MOUNTED ON STEEL SUPPORT CHANNEL STRUCTURE. PROVIDE WITH HINGED LOCKABLE ACCESS DOOR, PADLOCK BY OWNER, MOUNT POWER SUPPLY IN ENCLOSURE.
9. PER NEC 225.6 B, PROVIDE MESSENGER CABLES AND STRAIN INSULATORS FOR THE LOW VOLTAGE WIRING ATTACHED TO TREES.

KEYED NOTES (DETAIL NO.2 ONLY)

1. REFER TO STRUCTURAL DRAWINGS FOR POLE BASE DIAMETER, DEPTH CONCRETE, AND REINFORCEMENT REQUIREMENTS.

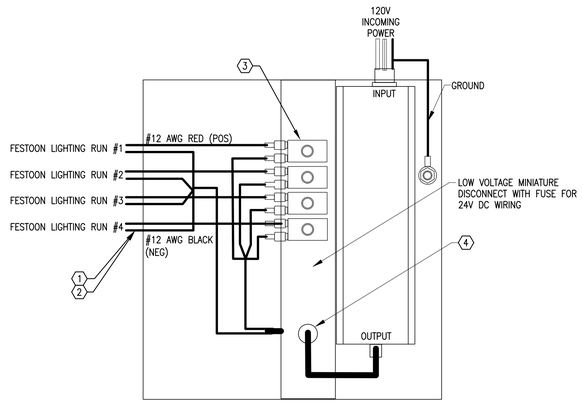
GENERAL NOTES: (THIS SHEET ONLY)

A. CONTRACTOR SHALL MEET NEC REQUIREMENTS FOR INSTALLATION, CONNECTION, GROUNDING, WIRING.



1 TYPICAL FESTOON LIGHTING AT TREE
SCALE: N.T.S

2 FESTOON LIGHTING CONC. FOOTING DETAIL
SCALE: N.T.S



KEYED NOTES (DETAIL NO.3 ONLY)

1. MAXIMUM OF 80' TO JUNCTION BOX. PROVIDE (2)#12 AWG CU. IN 1" PVC (SCH. 80).
2. REFER TO ADDITIONAL MANUFACTURER WIRING DIAGRAM FOR WIRING TO FESTOON LIGHTING.
3. CONTRACTOR SHALL PROVIDE LOW VOLTAGE 24V DC DISCONNECT WITH FUSES FOR OVER-CURRENT AND OVERLOAD PROTECTION. DISCONNECT DEVICE WITH FUSE SHALL BE EQUAL TO A BUSSMAN CAT. COMPACT CIRCUIT PROTECTOR COPLP-1-20-C-S. 1 POLE, 20 AMPERES 600V AND RATED FOR 24V DC. PROVIDE 5 AMPERE CLASS G FUSES FOR LOW VOLTAGE CIRCUIT PROTECTION. CONFIRM PER MANUFACTURER REQUIREMENTS.
4. 24V DC OUTPUT WIRING FROM POWER SUPPLY WITH LOW VOLTAGE TRANSFORMER PER MANUFACTURER TO THE LOW VOLTAGE DISCONNECT WITH FUSE OVERCURRENT PROTECTION FOR EACH RUN OF FESTOON LIGHTING

3 TYPICAL POWER SUPPLY WIRING DIAGRAM
SCALE: N.T.S

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City of San Antonio
San Antonio, Texas

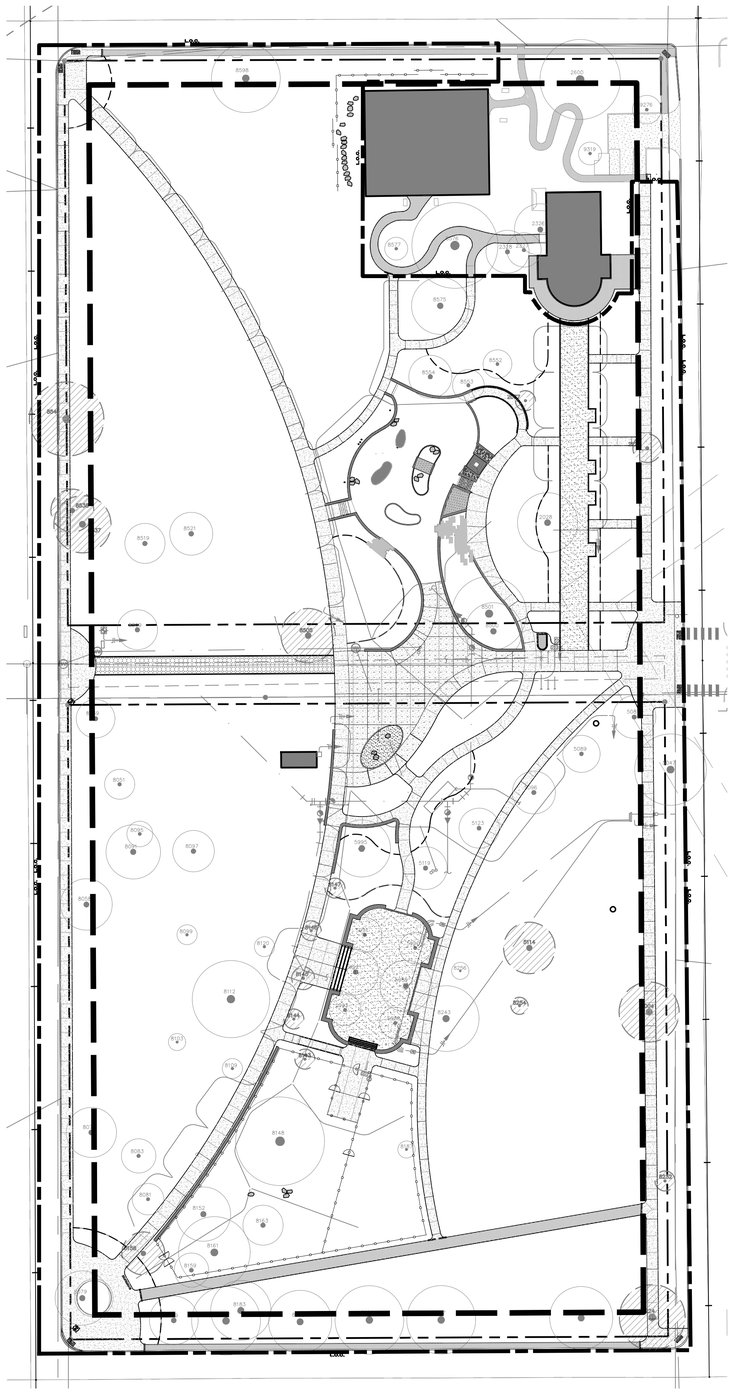
project number
A18096

issue date
november 8, 2019

designed: R.O
drawn: K.S / J.G
reviewed: M.R

sheet title
ELECTRICAL DETAILS

sheet
E5.02



1 SITE PLAN

SCALE: 1"=50' NORTH

SEC. 35-523 FINAL TREE CANOPY COVER

Developments of all sites must provide a minimum final tree canopy cover as listed below for the entire gross project area outside the regulatory floodplain.

A. Single Family Residential: 38%
B. Multi-Family and Non-Residential: 25%
C. CRAG Area: 15%

TOTAL SITE AREA	**372,584 SF (8.55 ACRES)**
TOTAL TREE CANOPY REQUIRED IS 15%	**55,888 SF**
TOTAL TREE CANOPY PROVIDED (EXISTING AND PROPOSED)	**81,963 SF**

EXISTING TREE CANOPY (WITHIN PROPERTY BOUNDARY)

QUANTITY	TREE TYPE	TREE CANOPY	TOTAL
33	EXISTING OAK (X 100% TREE VALUE)	875 SF	**28,875 SF**
2	EXISTING ELM (X 100% TREE VALUE)	875 SF	**1,750 SF**
5	EXISTING HACKBERRY (X 100% TREE VALUE)	875 SF	**4,375 SF**
9	EXISTING MESQUITE (X 100% TREE VALUE)	550 SF	**4,950 SF**
1	EXISTING POSSUM HAW (X 100% TREE VALUE)	275 SF	**275 SF**
3	EXISTING PECAN (X 100% TREE VALUE)	1200 SF	**3,600 SF**
TOTAL EXISTING TREE CANOPY (WITHIN PROPERTY BOUNDARY)			**43,825 SF**

PROPOSED TREE CANOPY (WITHIN PROPERTY BOUNDARY)

QUANTITY	TREE TYPE	TREE CANOPY	TOTAL
22	LIVE OAK (X 90% TREE VALUE)	875 SF (X 0.9)	**17,325 SF**
7	MEXICAN SYCAMORE (X 90% TREE VALUE)	1,200 SF (X 0.9)	**7,560 SF**
10	MONTERREY OAK (X 90% TREE VALUE)	875 SF (X 0.9)	**7,875 SF**
1	LACEY OAK (X 90% TREE VALUE)	550 SF (X 0.9)	**495 SF**
4	BALD CYPRESS (X 90% TREE VALUE)	875 SF (X 0.9)	**3,150 SF**
5	DESERT WILLOW (X 90% TREE VALUE)	275 SF (X 0.9)	**1,238 SF**
2	TEXAS REDBUD (x 90% TREE VALUE)	275 SF (X 0.9)	**495 SF**
TOTAL PROPOSED TREE CANOPY (WITHIN PROPERTY BOUNDARY)			**38,138 SF**
TOTAL PROPOSED TREE CANOPY			**38,138 SF**

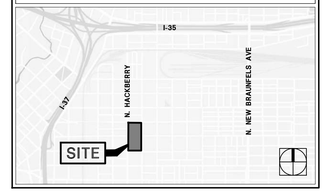
PROPERTY DESCRIPTION

4.2 & 4.7 ACRE TRACTS
801 N. OLIVE ST.; SAN ANTONIO, TX 78202
701 NOLAN ST.; SAN ANTONIO, TX 78202
N.C.B.: 539 & 548

OWNER

SAN ANTONIO PARKS AND REC.
114 W COMMERCE ST 11,
SAN ANTONIO, TX 78205
PHONE: (210) 207-8480

REFERENCE MAP



LANDSCAPE ORDINANCE AND MITIGATION:

REFERENCE LANDSCAPE PLANTING PLANS FOR PROPOSED LANDSCAPE AND TREE SPECIES.

EXISTING SITE LEGEND

SYMBOL	DESCRIPTION
— — — —	OVERALL PROPERTY BOUNDARY
	EXISTING TREES TO BE REMOVED
	EXISTING TREES TO REMAIN

TBG

landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
tbgpartners.com

REGISTERED LANDSCAPE ARCHITECT
SARAH ELAINE KLEINERT
3109
STATE OF TEXAS

08/05/19

project
dignowity lockwood park
issue for construction

City of San Antonio
San Antonio, Texas

project number
A18096

issue date
november 8, 2019

designed: AB, MD, MF, ID
drawn: MD, ID
reviewed: MF, EK

sheet title
tree protection plan

sheet
LTP 1.01

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TREE INVENTORY

TAG #	SPECIES	TREE PROTECTION TREATMENT (TPT)	UNDERSTORY TREE 5" - 11.5"		SIGNIFICANT TREE 6" - 23.5"		SIGNIFICANT TREE 10" - 23.5"		HERITAGE TREE 1:1		HERITAGE TREE 3:1		ADDITIONAL INCHES PRESERVED FOR MITIGATION ***	NOT PROTECTED TREES
			REMOVED	PRESERVED	REMOVED	PRESERVED	REMOVED	PRESERVED	REMOVED	PRESERVED	REMOVED	PRESERVED	PRESERVED	REMOVED
2028	Pecan					21								
2077	Oak				7									
2120	Sycamore				10									
2326	Hackberry							18						
2328	Palm												12	
2600	Oak											28		
5004	Palm													21
5047	Mequite									25				
5081	Oak					15								
5089	Oak					13								
5096	Oak					15								
5114	Palm													18
5119	Oak					15								
5123	Oak					14								
5988	Oak					11								
5989	Oak					18								
5990	Oak					11								
5991	Oak					12								
5992	Oak					16								
5993	Oak					11								
5995	Pecan					20								
8038	Oak					13.5								
8051	Oak					10.5								
8058	Palm												18	
8071	Mesquite							17.5						
8079	Oak					19								
8081	Oak					11								
8083	Oak					12								
8091	Mequite							19						
8095	Oak					9								
8097	Oak					14.5								
8099	Oak					7								
8103	Oak					6								
8109	Oak					7								
8112	Mesquite									27				
8120	Oak					7								
8143	Tallow													7
8144	Tallow													7
8145	Tallow													8
8146	Tallow													7
8147	Tallow													7
8148	Possum Haw									31				
8152	Oak					19								
8158	Oak				15									
8159	Oak					12								
8161	Mesquite									25				
8163	Hackberry							21						
8179	Oak					17								
8182	Palm												24	
8183	Oak					21								
8187	Oak					6								
8188	Palm												22	
8194	Palm												24	
8197	Palm												24	
8219	Palm												22	
8224	Palm													23
8232	Holly													7
8243	Pecan					23								
8254	Oak				6									
8256	Tallow												6	
8500	Mesquite							20						
8501	Bois d'arc									26				
8505	Mesquite													19
8509	Mesquite							14						
8519	Mesquite							14						
8521	Mesquite							15						
8537	Mesquite						20							
8538	Mesquite						15							
8541	Mesquite								26					
8552	Oak					10								
8553	Hackberry							11						
8554	Hackberry							15						
8575	Elm					20								
8576	Elm											30		
8577	Hackberry			8										
8598	Oak											24		
9276	Oak					10								
9319	Oak					8								

SUBTOTAL INCHES:	0	8	38	454.5	35	164.5	26	134	0	82
TOTAL INCHES BY CATEGORY:		8		492.5		199.5		160		82

PRESERVATION PERCENTAGE:	UNDERSTORY PRESERVATION (%)	100%	SIGNIFICANT PRESERVATION (%)	89%	HERITAGE PRESERVATION (%)	89%	
MITIGATION REQUIRED (COMMERCIAL):		-4.8	COMMERCIAL (INCHES)	73	HERITAGE MITIGATION (INCHES)	26	
					TOTAL MITIGATION REQUIRED (INCHES)		94.2
					TOTAL PRESERVATION (%)		0.89

No category to fall below 20% preservation;
Preserved: *Tree to remain that meets root protection zone requirements described in section 35-523 of the UDC.*
100% preservation of heritage trees are required. If not met, must mitigate at 3:1 ratioo, unless listed below as small species.
40% preservation of significant trees are required. If not met, must mitigate at 1:1 ratio.
**** Small Species*** *: Condalia, Redbud, Texas Moutain Laurel, Texas Persimmon, Hawthorn, Possumhaw, Palms - these are mitigated at 1:1 for Heritage Trees*
*** Ashe Juniper, Huisachem Nesquite, Arizona Ash, Hackberry protected at 10" DBH and mitigated at 1:1 for Heritage Trees*
****** Additionally Preserved Inches for Mitigation Trees:*** *Unprotected-sized trees to be used for mitigation calculations; subtract inches from mitigation owed*

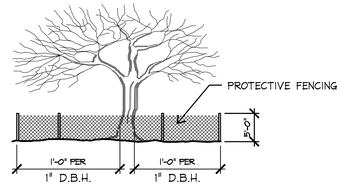
TREE PROTECTION NOTES:

1. ALL TREES SHOWN ON THIS PLAN TO BE RETAINED OR REPLANTED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
2. TREE PROTECTION FENCES SHALL BE ERECTED ACCORDING TO CITY OF SAN ANTONIO STANDARDS FOR TREE PROTECTION.
3. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR GRADING), AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT.
4. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES; SHALL BE LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIPLINE); AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT IN ORDER TO PREVENT THE FOLLOWING:
   - 4.A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS.
   - 4.B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL) OR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY ARBORIST.
   - 4.C. WOUNDS TO EXPOSED ROOTS, TRUNK OR LIMBS BY MECHANICAL EQUIPMENT.
   - 4.D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CONCRETE TRUCK CLEANING, AND FIRES.
5. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIPLINES MAY BE PERMITTED IN THE FOLLOWING CASES: PROVIDED NO WORK IS CLOSER THAN ½ ROOT PROTECTION ZONE (RPZ) AND THE CONTRACTOR COORDINATES WITH THE CITY OF SAN ANTONIO INSPECTOR.
   - 5.A. WHERE PERMEABLE PAVING IS TO BE INSTALLED, ERECT THE FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA.
   - 5.B. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE NO CLOSER THAN 6 FEET TO THE BUILDING.
   - 5.C. WHERE THERE ARE SEVERE SPACE CONSTRAINTS DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY OF SAN ANTONIO ARBORIST AT 210-207-8053 TO DISCUSS ALTERNATIVES.
6. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE THAT IS CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUCK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
7. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN AREAS OF UNPROTECTED ROOT ZONES (UNDER DRIPLINES) THOSE AREAS SHOULD BE COVERED WITH 6 INCHES OF ORGANIC MULCH OR GRAVEL TO MINIMIZE SOIL COMPACTION.
8. ALL GRADING WITHIN PROTECTED ROOT ZONE AREAS SHALL BE DONE BY HAND OR WITH SMALL EQUIPMENT TO MINIMIZE ROOT DAMAGE. PRIOR TO GRADING, RELOCATE PROTECTIVE FENCING TO 2 FEET BEHIND THE GRADE CHANGE AREA.
9. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
10. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRIPLINES, A CLEAN CUT SHALL BE MADE BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT TO MINIMIZE DAMAGE TO REMAINING ROOTS.
11. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
12. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE ROOT ZONE.
13. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
14. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS (BEFORE DAMAGE OCCURS). ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY; REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES, CLASS IV OF PRUNING (AVAILABLE ON REQUEST FROM THE CITY ARBORIST).
15. ALL WOUNDS ON OAK TREES MUST BE REPAIRED WITHIN 30 MIN. OF OCCURRENCE BY BARK TRACING TO REMOVE DAMAGED WOOD AND BARK THOROUGHLY SEAL WITH AN ACCEPTABLE TREE WOUND DRESSING.
16. ALL WOUNDS WHICH OCCUR TO TREE TRUNKS AND LIMBS MUST BE REPAIRED WITHIN 24 HOURS OF OCCURRENCE BY BARK TRACING TO REMOVE DAMAGED WOOD AND BARK. THIS SPECIFICALLY APPLIES TO WOUNDS CREATED BY CONSTRUCTION VEHICLES AND EQUIPMENT, INSTALLATION OF TOWERS AND PIERS, AND STRINGING OF ELECTRICAL LINES.
17. TREES APPROVED FOR REMOVAL OR REPLANTING SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
18. IF THERE IS ENCROACHMENT OF MORE THAN ONE HALF OF THE ROOT PROTECTION ZONE (RPZ) ON ONE SIDE OF THE TREE, COORDINATE WITH CITY OF SAN ANTONIO INSPECTOR PRIOR TO CUTTING ANY OF THE ROOT STRUCTURE.

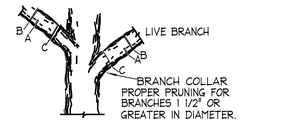
SEC. 35-523 TREE MITIGATION

TOTAL MITIGATION REQUIRED	**94 INCHES**
PROPOSED TREE MITIGATION (1.5"/ TREE REMOVED FOR LANDSCAPE ORDINANCE REQUIREMENTS)	

QUANTITY	SIZE/ SPECIES	INCHES PER SPECIES
22	3" LIVE OAK	66 INCHES
4	5" BALD CYPRESS	20 INCHES
7	3" MEXICAN SYCAMORE	21 INCHES
10	3" MONTERREY OAK	30 INCHES
1	3" LACEY OAK	3 INCHES
5	3" DESERT WILLOW	15 INCHES
2	2" TEXAS REDBUD	4 INCHES
TOTAL MITIGATION INCHES PLANTED		**159 INCHES**



4 ROOT PROTECTION ZONE (RPZ)
ELEVATION — NOT TO SCALE

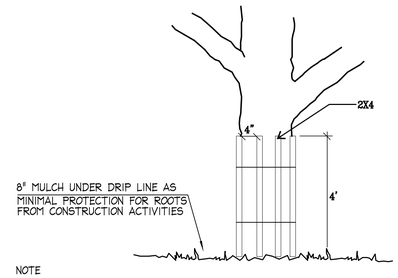


A. FIRST CUT - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
B. SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH.
C. FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS

PROPER PRUNING FOR BRANCHES 1 1/2" OR GREATER IN DIAMETER.

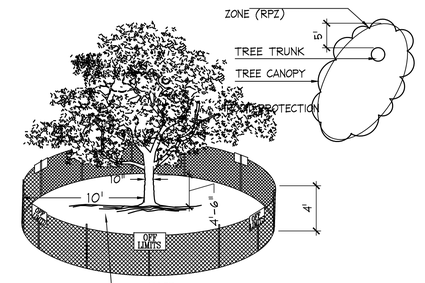
FOR OAKS ONLY:
PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 20 MIN TO PREVENT THE SPREAD OF OAK WILT.

3 BRANCH PRUNING
ELEVATION — NOT TO SCALE



NOTE
WRAP TREE TRUNK WITH 2"X4" STUDS AND ROPE OR BAND IN PLACE AS NEEDED TO PROTECT TREES IN WORK AREAS INSIDE TREE PROTECTION ZONE.

2 TREE ARMOR DETAIL
ELEVATION — NOT TO SCALE



6" MULCH INSIDE RPZ WHEN THERE IS NO EXISTING UNDERSTORY OR TURF

NOTE:
1. THE FENCING SHOWN ABOVE IS DIAGRAMATIC ONLY, WILL CONFORM TO THE DRIP LINE AND IS LIMITED TO PROJECT BOUNDARY.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECS.

1 TREE PROTECTION ZONE
ELEVATION — NOT TO SCALE

TBG

landscape architects, planners & designers

430 austin street
suite 200
san antonio, tx 78215

[210] 366-9933
tbgpartners.com

REGISTERED LANDSCAPE ARCHITECT — SARAH ELAINE KLEMENT — 3109 — STATE OF TEXAS

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