

HISTORIC AND DESIGN REVIEW COMMISSION

March 20, 2019

HDRC CASE NO: 2019-102
COMMON NAME: 3299 SW 28th Street
ADDRESS: 3101 ROSELAWN
LEGAL DESCRIPTION: NCB 12308 BLK 10 LOT 2
ZONING: R-6
CITY COUNCIL DIST.: 5
APPLICANT: Mark Padilla/MP Studio
OWNER: City of San Antonio Parks
TYPE OF WORK: Park Improvements
APPLICATION RECEIVED: March 01, 2019
60-DAY REVIEW: April 30, 2019
CASE MANAGER: Adam Rajper
REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to carry out various park improvements, including the construction of shade structures in the existing playground and basketball court, as well as the installation of site lighting.

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 property located at 3299 SW 28th Street is a public park with the common name of Kennedy Park and is situated to the southwest of Downtown. The applicant is requesting approval for various park improvements.
- b. PARK IMPROVEMENTS – The applicant has proposed various park improvements, including the construction of fabric shade structures in the existing playground and basketball court, as well as the installation of site lighting. Staff finds the proposal consistent with the UDC.
- c. ARCHAEOLOGY – The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology.

RECOMMENDATION:

Staff recommends approval based on findings a through c with the following stipulation:

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



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Printed: Mar 12, 2019

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Texas Department
of Public Safety

Thompson Place
Apartments

Diplomat Apartments

PeopleReady

Church's Chicken

Brentwood
Middle School

John F. Kennedy
High School

St John Berchmans
Church

Family Dollar

MetroPCS
Authorized Dealer

Santa Maria Mexican

Western Union

Dollar General

Rocky's Taco House

Tubby's Tavern

3299 Southwest
28th Street

Edgewood
Veterans Stadium

Kennedy Park

Catholic Cemeteries San
Fernando Cemetery III

San Fernando
Cemetery no 3

Winston
Elementary School

Roselawn Apartments

Winston Square
Apartment Homes

KENNEDY PARK



New fabric shade structure over existing playground



New fabric shade structure over existing basketball court.

2017-2022 BOND PROGRAM

COSA DISTRICT 5 PARKS

KENNEDY PARK

San Antonio, Texas

Sitework Repair / Electrical



201 GROVETON | SATX 78210
210.314.5582 | MPSTUD.IO

STATUS



12/12/2018

PROJECT

KENNEDY PARK

COSA DISTRICT 5 PARK

PROJECT ADDRESS

3299 SW 28TH STREET
SAN ANTONIO, TX 78226

OWNER | CLIENT

TCI - CITY OF SAN ANTONIO
114 WEST COMMERCE ST.
SAN ANTONIO, TX 78203

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RON NIRENBERG

city manager
SHERYL SCULLEY

director of parks & recreation
XAVIER D. URRUTIA

council district 1
ROBERTO TREVINO

council district 2
CRUZ SHAW

council district 3
REBECCA VIAGRAN

council district 4
REY SALDANA

council district 5
SHIRLEY GONZALES

council district 6
GREG BROCKHOUSE

council district 7
ANA SANDOVAL

council district 8
MANNY PELAEZ

council district 9
JOHN COURAGE

council district 10
CLAYTON PERRY

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A PROJECT BY

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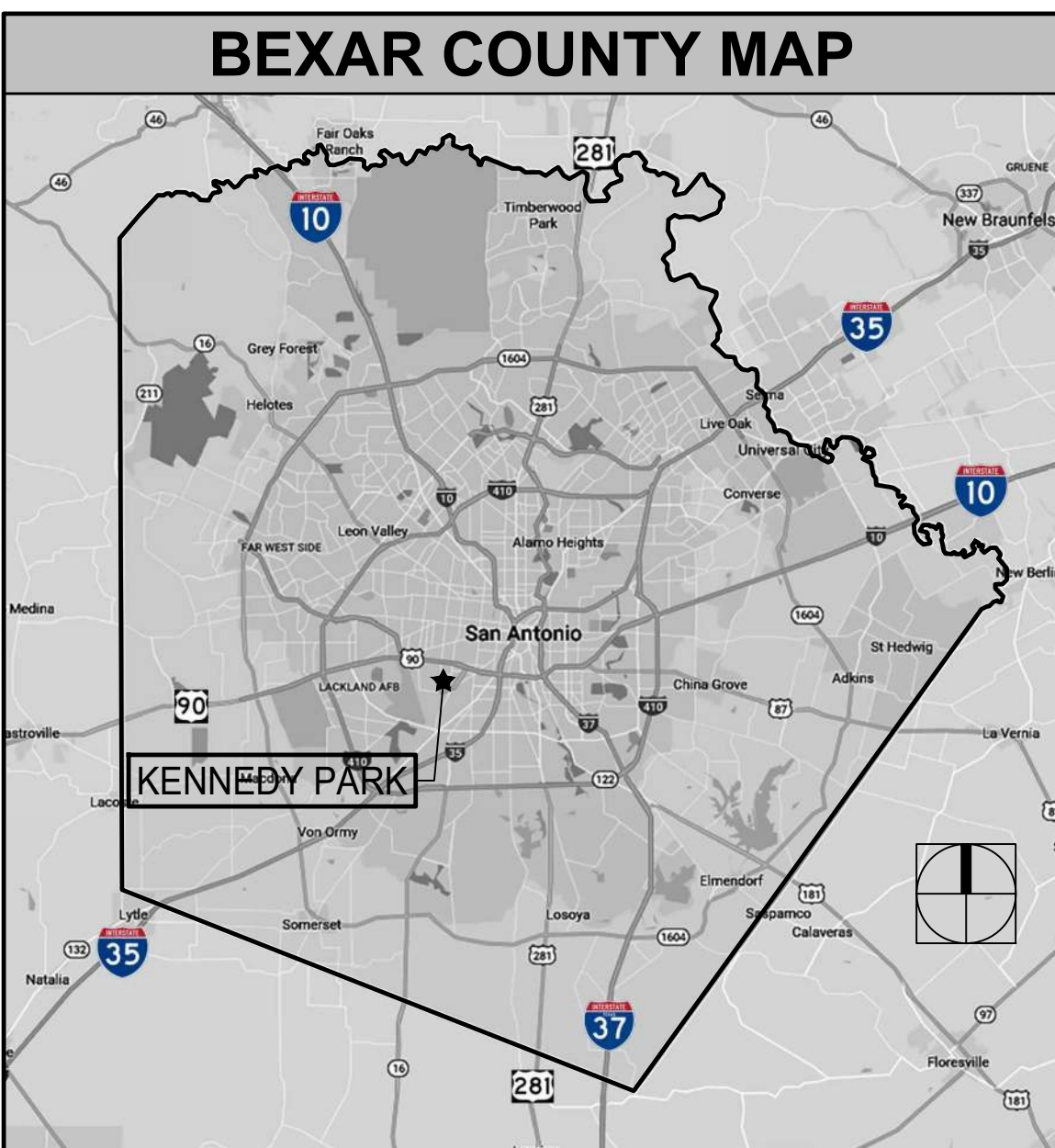
City of San Antonio, Texas

Parks & Recreation Department

DISTRICT 5 PARKS

Kennedy Park

3299 SW 28TH ST,
SAN ANTONIO, TX 78226



REVISIONS

NO.	DATE	DESCRIPTION

ISSUE SETS

NO.	DATE	DESCRIPTION
1	12.12.18	100% CD SET

SHEET INFORMATION

PROJECT NO.

18001

DATE ISSUED

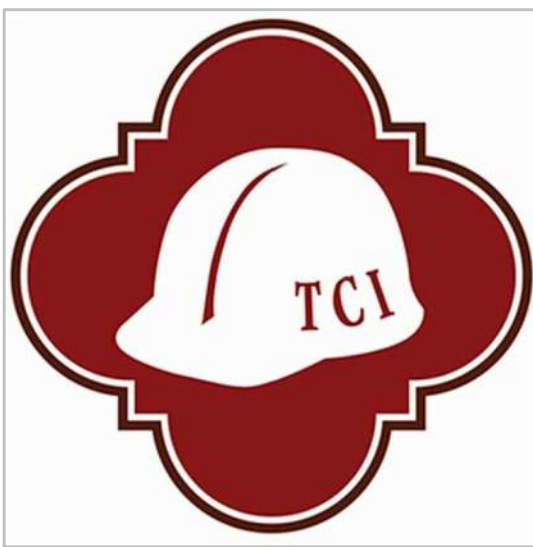
DECEMBER 12, 2018

SHEET NAME

LANDSCAPE
COVER SHEET

SHEET NUMBER

LC 1.0



GENERAL NOTES:

- 1.) LOCATE AND VERIFY THE CONDITION OF EXISTING UTILITIES PRIOR TO EXCAVATION. TAKE RESPONSIBILITY OF CONTACTING LINE LOCATION SERVICES AND ANY COST INCURRED FOR BODILY INJURY AND / OR DAMAGE OF OWNER'S PROPERTY OR SAID UTILITIES.
- 2.) THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED BY THE CONTRACTOR OF ANY DISCREPANCIES DISCOVERED BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE LIABLE FOR ALL MODIFICATIONS AND DAMAGES IF WORK PROCEEDS WITHOUT THIS NOTIFICATION.
- 3.) THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF MAINTAINING A SAFE WORK SITE INCLUDING, BUT NOT LIMITED TO PROVIDING FOR TRAFFIC CONTROL, INSTALLATION AND PLACEMENT OF FENCING AND BARRICADES, EXCAVATION AND TRENCH PROTECTION, AND COMPLIANCE WITH ALL FEDERAL AND LOCAL REGULATIONS AND CODES. ALL SAFETY EXPOSURES OR VIOLATIONS SHALL BE RECTIFIED IMMEDIATELY.
- 4.) THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXISTING IMPROVEMENTS BOTH ON SITE AND ADJACENT TO THE WORK SITE AND SHALL REPAIR ANY DAMAGE TO THESE IMPROVEMENTS TO THE SATISFACTION OF THE OWNER.
- 5.) THE CONTRACTOR SHALL NOTIFY OWNER AND LANDSCAPE ARCHITECT 48 HOURS PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT INSPECTION SCHEDULES.
- 6.) ANY ALTERNATES AND OR SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL. CHANGES TO THE SCOPE OF WORK AND / OR CONTRACT DOCUMENTS RESULTING FROM THE ACCEPTANCE OF THE CONTRACTOR'S ALTERNATES AND / OR SUBSTITUTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 7.) THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF TRASH ON A DAILY BASIS.
- 8.) THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. PRIOR TO CONSTRUCTION, ALL PERMITS AND APPROVALS REQUIRED FOR CONSTRUCTION OF THE PROJECT SHALL BE PAID FOR AND OBTAINED BY THE CONTRACTOR (PLAN REVIEW FEES ARE PAID BY OWNER) COSTS FOR PERMITS SHALL BE INCLUDED IN THE BID. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME AWARE OF REQUIRED INSPECTIONS THAT ARE ASSOCIATED WITH PERMITS ISSUED FOR THE WORK AND TO SCHEDULE THESE INSPECTIONS AT THE APPROPRIATE STAGE OF CONSTRUCTION. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO ROUGH-IN ELECTRICAL, ROUGH-IN PLUMBING,IRRIGATION PIPING, FOUNDATION STEEL FOR STRUCTURES (INCLUDING WALLS), FIRE INSPECTIONS RELATED TO ENTRY GATES AND ASSOCIATED STRUCTURES AND OTHERS AS MAY APPLY.
- 9.) COORDINATE WORK WITH SUBCONTRACTORS TO ACCOMPLISH THE SCOPE OF WORK AS SHOWN AND NOTED IN THE CONTRACT DOCUMENTS AS WELL AS, COORDINATE CONSTRUCTION WITH OTHER CONTRACTORS WORKING ON THE SITE.
- 10.) THE CONTRACTOR SHALL COORDINATE THE STORING OF MATERIALS, PARKING OF VEHICLES, AND RESTRICTIONS OF WORK AND ACCESS WITH THE OWNER. UNDER NO CIRCUMSTANCES SHALL ANY CONTRACTOR STORE MATERIALS, PARK VEHICLES OR EQUIPMENT UNDER THE CANOPY OF EXISTING TREES.
- 11.) UNLESS SPECIFIED OTHERWISE, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND PAYING ALL TEMPORARY UTILITIES AND SERVICES NECESSARY TO COMPLETELY INSTALL ALL WORK AS SHOWN AND NOTED IN THE CONTRACT DOCUMENTS.
- 12.) THE CONTRACTOR IS RESPONSIBLE FOR THE LEGAL OFF-SITE DISPOSAL OF SURPLUS MATERIAL AND DEBRIS.
- 13.) UPON COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL APPROVAL, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE PROJECT SITE OF ALL TRASH, REPAIR ALL DAMAGE TO FINISH GRADE, INCLUDING TAILINGS FROM EXCAVATIONS, WHEEL RUTS AND ANY SETTLING OR EROSION THAT HAS OCCURRED PRIOR TO COMPLETION. ALL AREAS OF THE PROJECT SITE SHALL BE LEFT IN A NEAT AND PRESENTABLE CONDITION SATISFACTORY TO THE OWNER PRIOR TO SUBMITTAL OF THE FINAL PAYMENT.
- 14.) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND SERVICING TEMPORARY TOILET FACILITIES.

CONCRETE NOTES:

- 1.) ALL CONCRETE CONSTRUCTION, DETAILING AND ERECTION SHALL CONFORM TO THE FOLLOWING:
- A.) ACI #301: SPECIFICATIONS
 - B.) ACI #318: BUILDING CODE REQUIREMENTS
 - C.) ACI #315: MANUAL OF STANDARD PRACTICE
- 2.) CONCRETE MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM REQUIREMENTS:
- A.) AGGREGATE - C33
 - B.) READY MIXED CONCRETE - C94
 - C.) PORTLAND CEMENT - C150
 - D.) FIELD CYLINDERS - C31
 - E.) COMPRESSIVE TESTING - C39
- 3.) ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WEIGHING NOT MORE THAN 145 PCF AND SHALL HAVE A MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 PSI.
- 4.) THE WATER/CEMENT RATIO FOR STRUCTURAL CONCRETE SHALL NOT EXCEED 0.53.
- 5.) TOTAL AIR CONTENT SHALL BE 3 TO 5 PERCENT.
- 6.) PUMPED CONCRETE SHALL MEET THESE ADDITIONAL REQUIREMENTS:
- A.) MAXIMUM COARSE AGGREGATE SIZE - 1 INCH
 - B.) INCREASE CEMENT FACTOR BY 1/2 SACK PER CUBIC YARD.
 - C.) MAXIMUM SLUMP - 5 INCHES
 - D.) DO NOT PUMP THROUGH AN ALUMINUM TUBE.
- 7.) CONCRETE SHALL NOT BE PLACED PRIOR TO APPROVAL OF THE CONCRETE MIX DESIGNS BY THE LANDSCAPE ARCHITECT. THE MIX DESIGNS SHALL NOT BE APPROVED PRIOR TO RECEIPT OF COMPRESSIVE TEST RESULTS FROM AN INDEPENDENT TESTING LABORATORY CERTIFYING ADEQUATE STRENGTH OF THE MIX DESIGNS AT 28 DAYS.
- 8.) HORIZONTAL CONSTRUCTION JOINTS ARE ONLY ALLOWED IN SLABS OF BEAMS WITH WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT. CONTROL JOINTS SHALL BE PLACED MAXIMUM 25' O.C. AS REQUIRED WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT.

CONCRETE REINFORCEMENT

- 1.) ALL REINFORCEMENT SHALL BE DEFORMED BILLET STEEL (GR.60) CONFORMING TO ASTM A615.
- A.) REINFORCING - A615, GRADE 60, DEFORMED
 - B.) WELDED WIRE MESH - A185, GRADE 60
- 2.) SPLICES OF HORIZONTAL REINFORCEMENT SHALL LAP AT LEAST 24" AND SHALL BE CONTINUOUS AROUND CORNERS. MAINTAIN AT LEAST 1" BETWEEN REINFORCING BARS AT SPLICES IN BEAMS AND SLABS. REINFORCING BARS SCHEDULED AS CONTINUOUS SHALL BE LAPPED 24".
- 3.) DETAILING FABRICATION AND ERECTION OF REINFORCING BARS SHALL COMPLY WITH THE ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
- 4.) STANDARD PROTECTIVE COVER FOR REINFORCING, UNLESS NOTED OTHERWISE, SHALL BE AS OUTLINED IN ACI 318-83:
- A.) AGAINST DIRT OF FILL - 3 INCHES
 - B.) EXPOSED TO EARTH OR WEATHER - 2 INCHES
 - C.) SLABS AND WALLS - 1 INCH
 - D.) OTHER - 1 1/2 INCHES
- 5.) PROVIDE SHOP DRAWINGS OF REINFORCING AND ACCESSORIES FOR REVIEW BY ARCHITECT. SHOP DRAWINGS SHALL CLEARLY INDICATE LOCATION, SIZE, SPACING, SPLICES AND PIECE MARK FOR ALL REINFORCING STEEL. THE SHOP DRAWINGS SHALL PROVIDE SUFFICIENT DETAIL TO PERMIT PLACEMENT OF REINFORCEMENT WITHOUT THE USE OF THE DESIGN DRAWINGS AND SHALL INCLUDE A COMPLETE BILL OF MATERIALS.
- 6.) FABRICATION OF REINFORCING STEEL SHALL NOT COMMENCE UNTIL SUBMITTALS HAVE BEEN REVIEWED BY LANDSCAPE ARCHITECT.



201 GROVETON | SATX 78210
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STATUS



12/12/2018

PROJECT

KENNEDY PARK

COSA DISTRICT 5 PARK

PROJECT ADDRESS

3299 SW 28TH STREET
SAN ANTONIO, TX 78226

OWNER | CLIENT

TCI - CITY OF SAN ANTONIO

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REVISIONS

ISSUE SETS

NO.	DATE	DESCRIPTION
1	12.12.18	100% CD SET

SHEET INFORMATION

PROJECT NO.

18001

DATE ISSUED

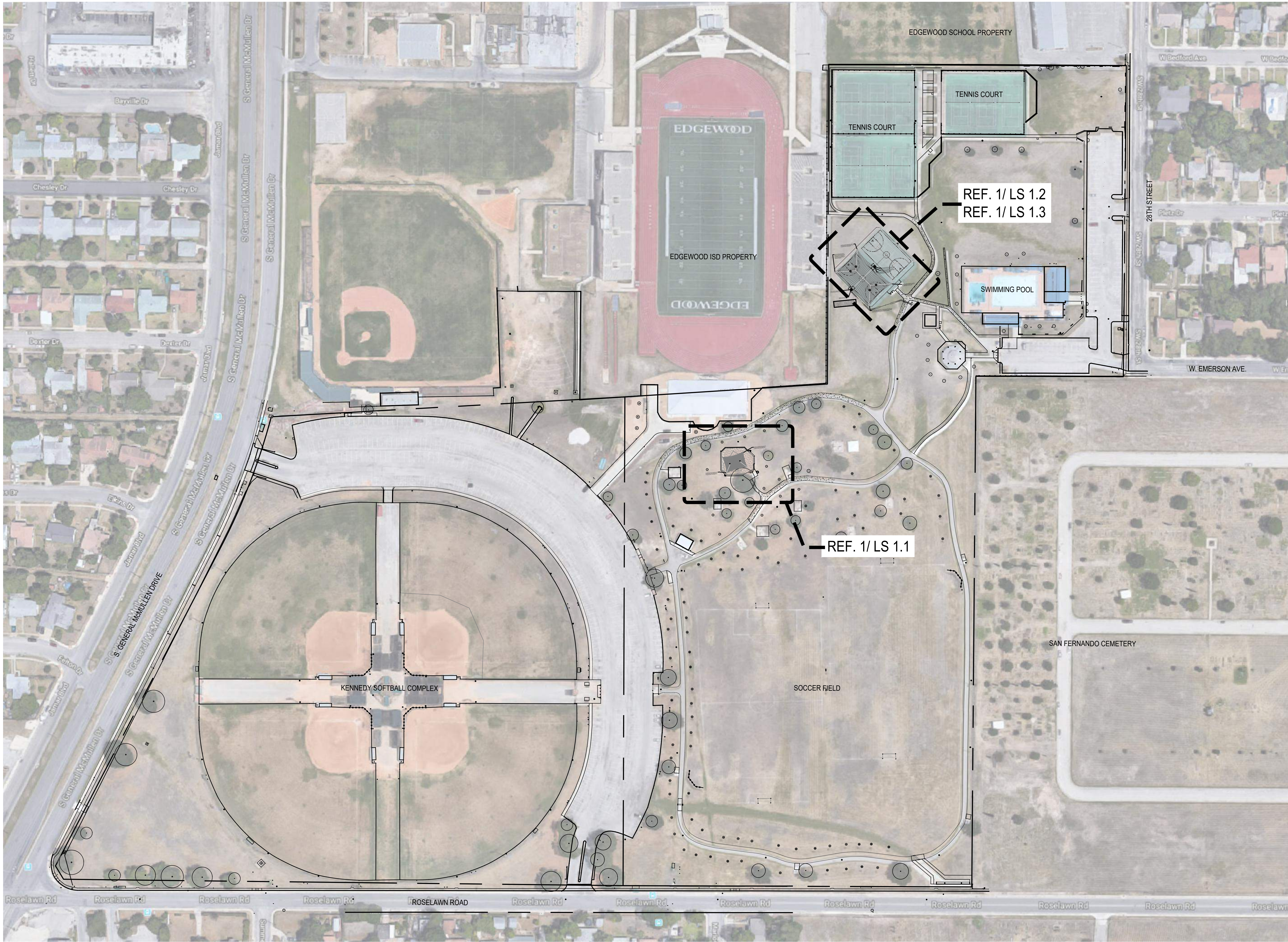
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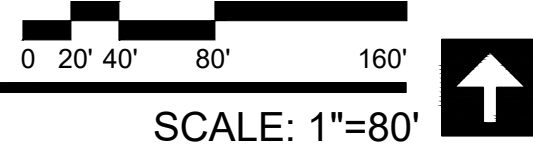
GENERAL NOTES

SHEET NUMBER

LC 1.1



1 KENNEDY PARK OVERALL REFERENCE
PLAN



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PROJECT

KENNEDY PARK

COSA DISTRICT 5 PARK

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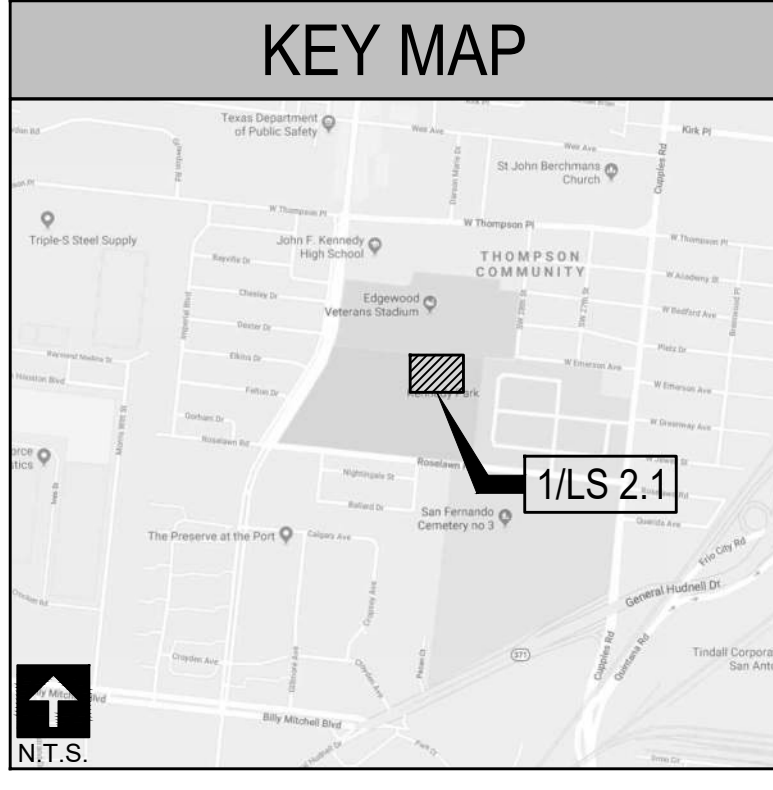
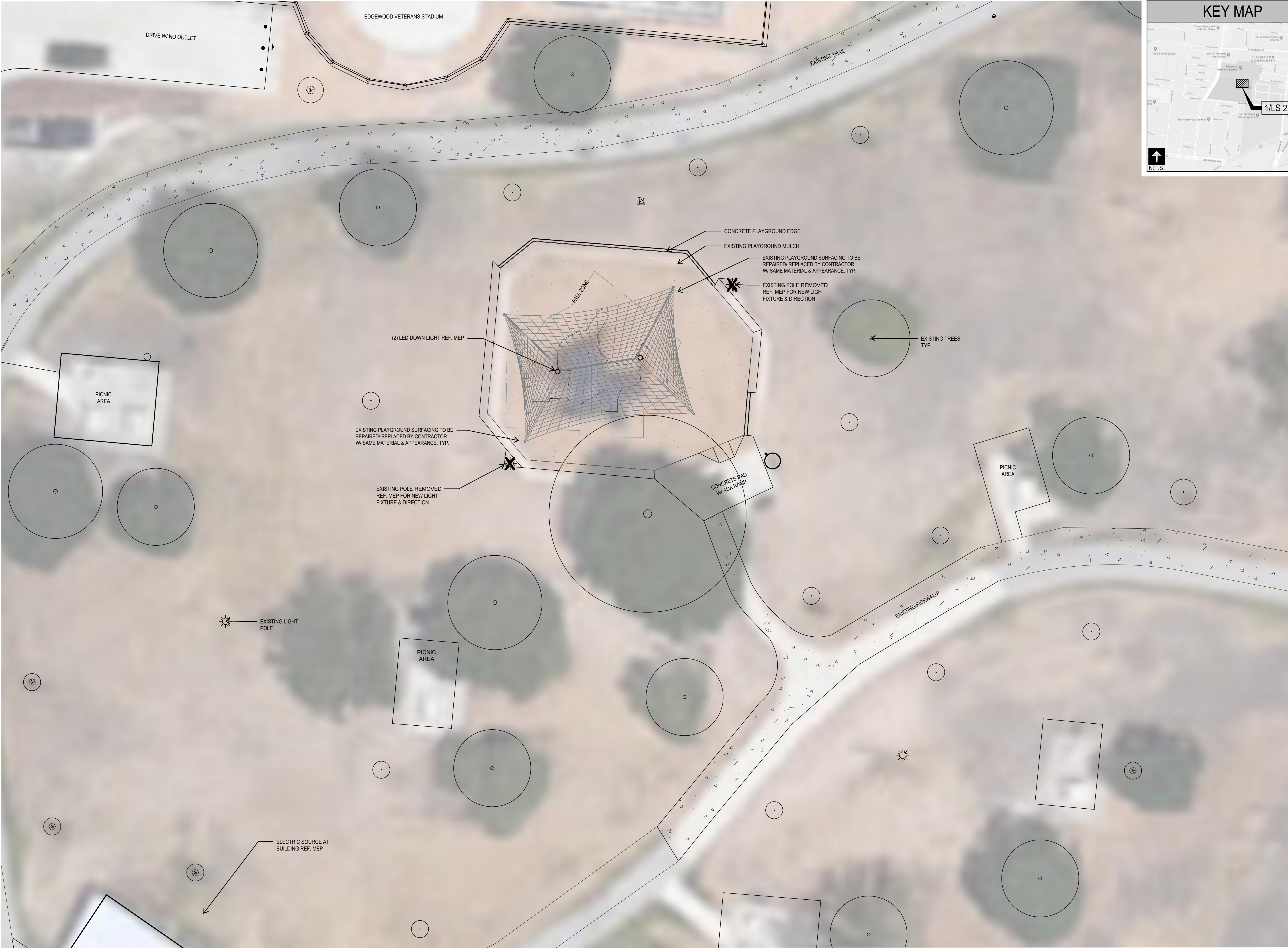
DECEMBER 12, 2018

SHEET NAME

SITE WORK PLAN

SHEET NUMBER

LS 1.0



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KENNEDY PARK

COSA DISTRICT 5 PARK

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3299 SW 28TH STREET
SAN ANTONIO, TX 78226

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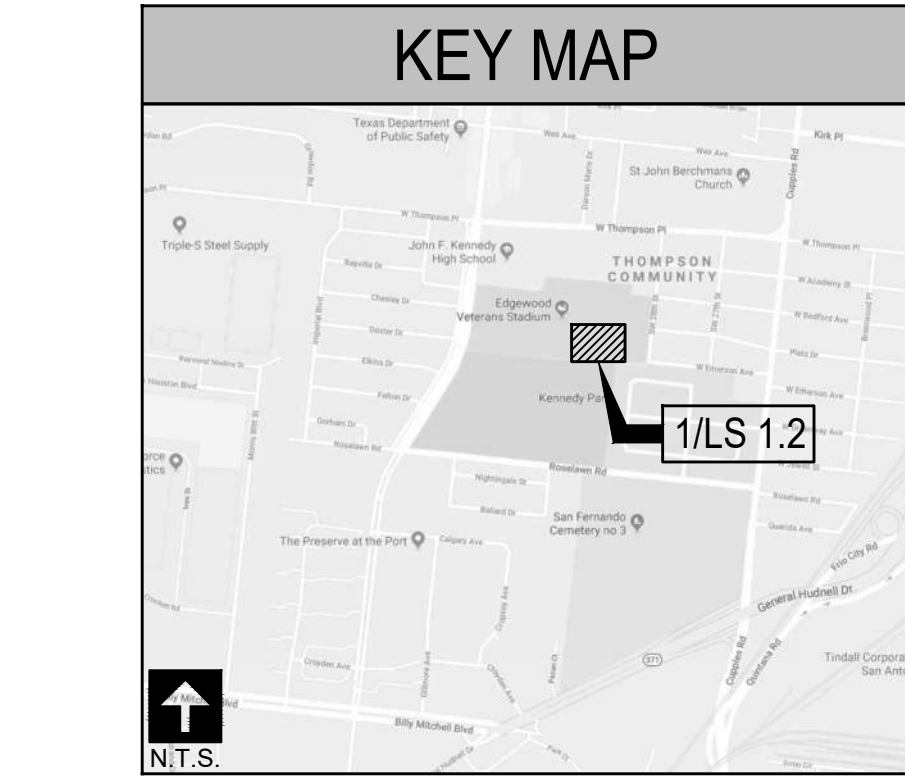
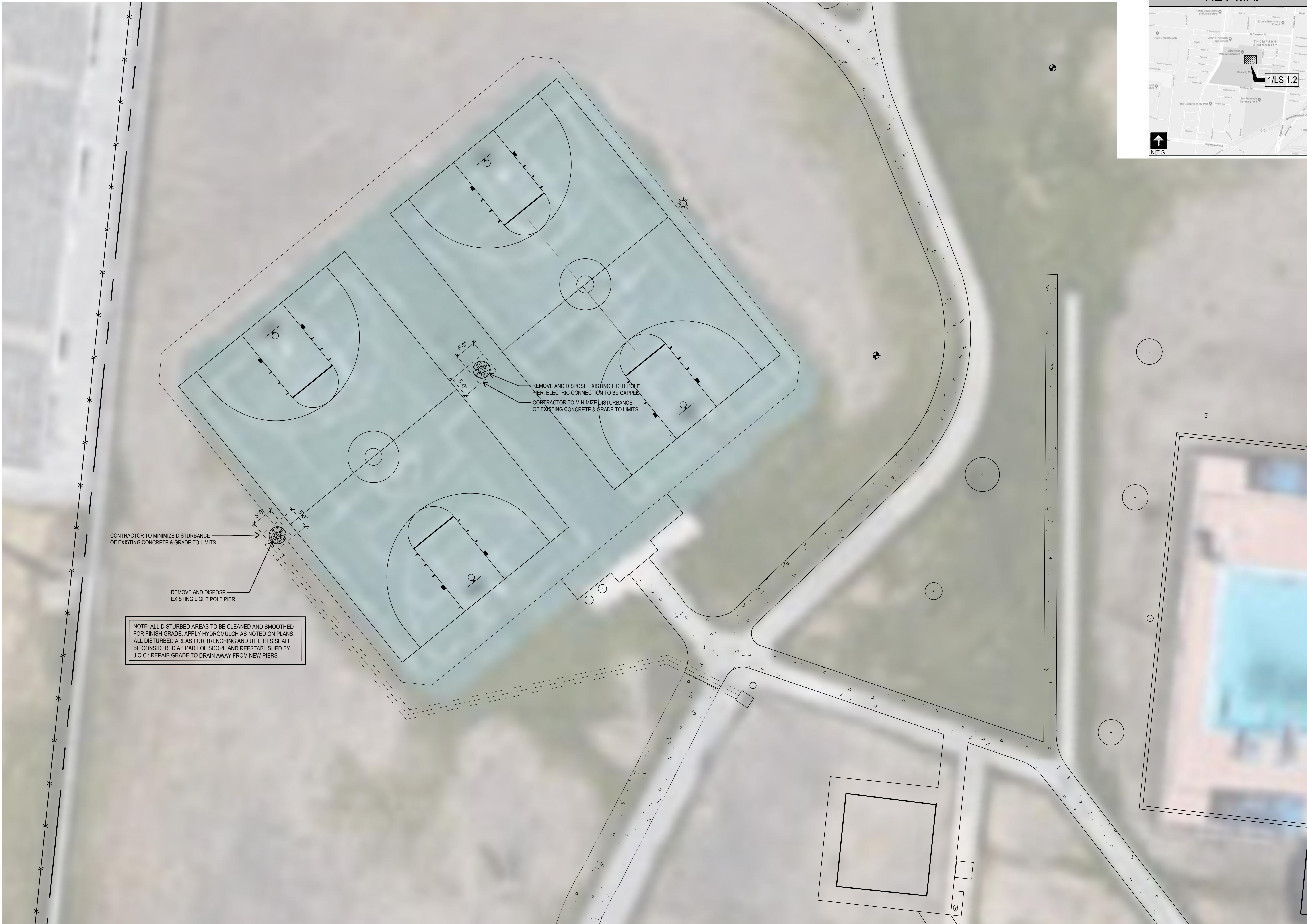
SHEET NAME

SITE WORK REPAIR
PLAN

SHEET NUMBER

LS 1.1





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KENNEDY PARK

COSA DISTRICT 5 PARK

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18001

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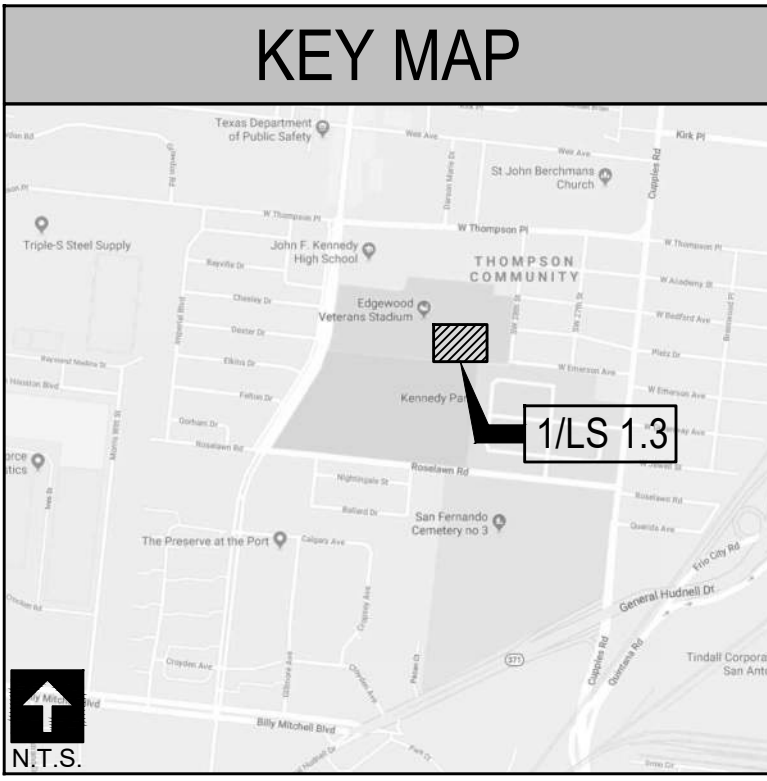
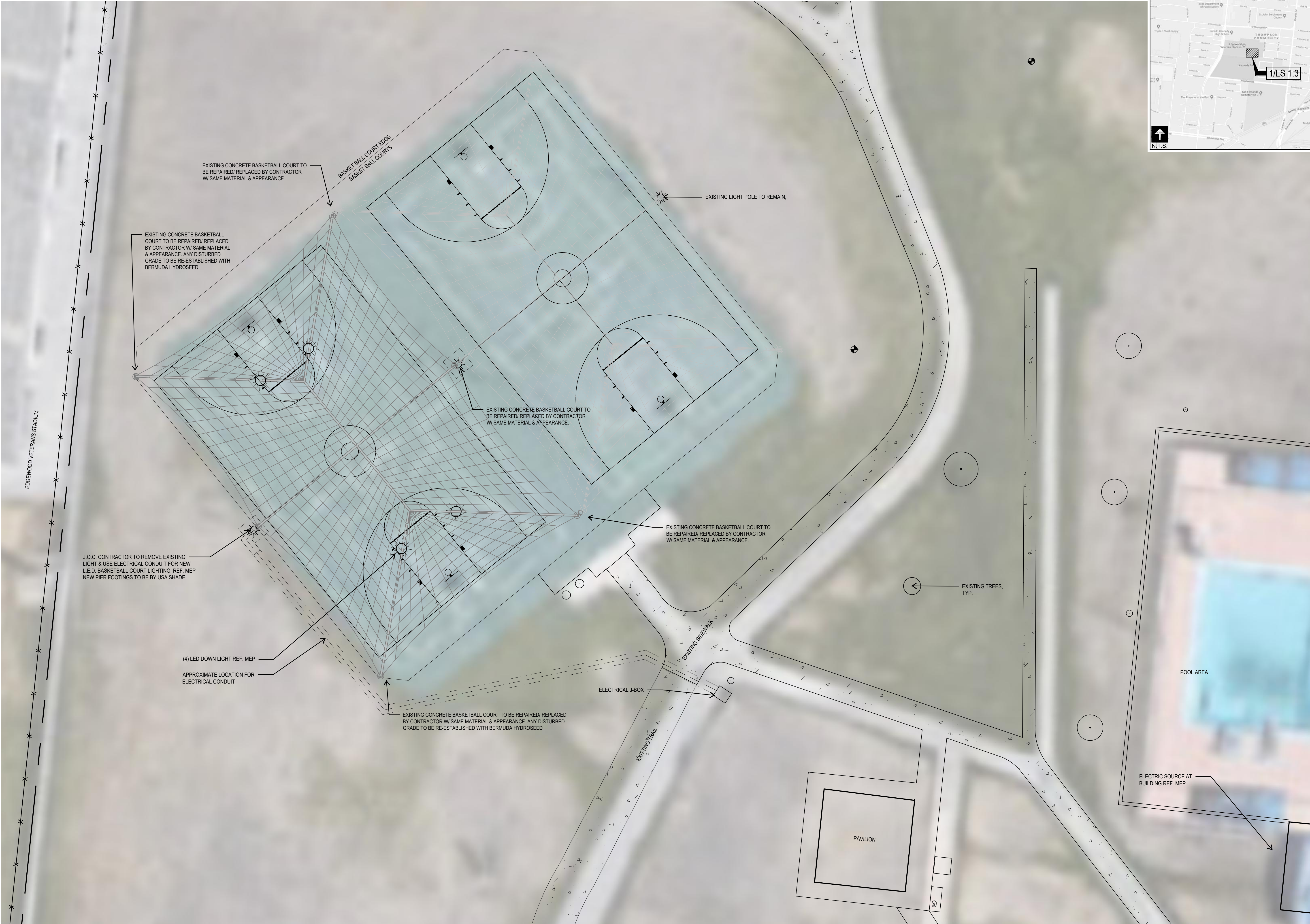
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SHEET NAME

DEMO PLAN

SHEET NUMBER

LS 1.2



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12/12/2018

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KENNEDY PARK

COSA DISTRICT 5 PARK

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3299 SW 28TH STREET
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18001

DATE ISSUED

DECEMBER 12, 2018

SHEET NAME

SITE WORK PLAN

SHEET NUMBER

LS 1.3

SOME SYMBOLS MAY NOT BE USED ON THIS PROJECT

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STATUS

PROJECT

COSA DISTRICT 5 PARK

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3299 SW 28TH STREET
SAN ANTONIO, TX 78226

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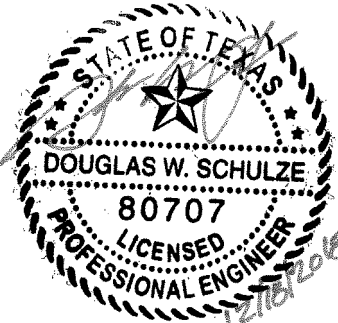
PAT SCHNEIDER

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TBPE REGISTRATION No.
:F-7964

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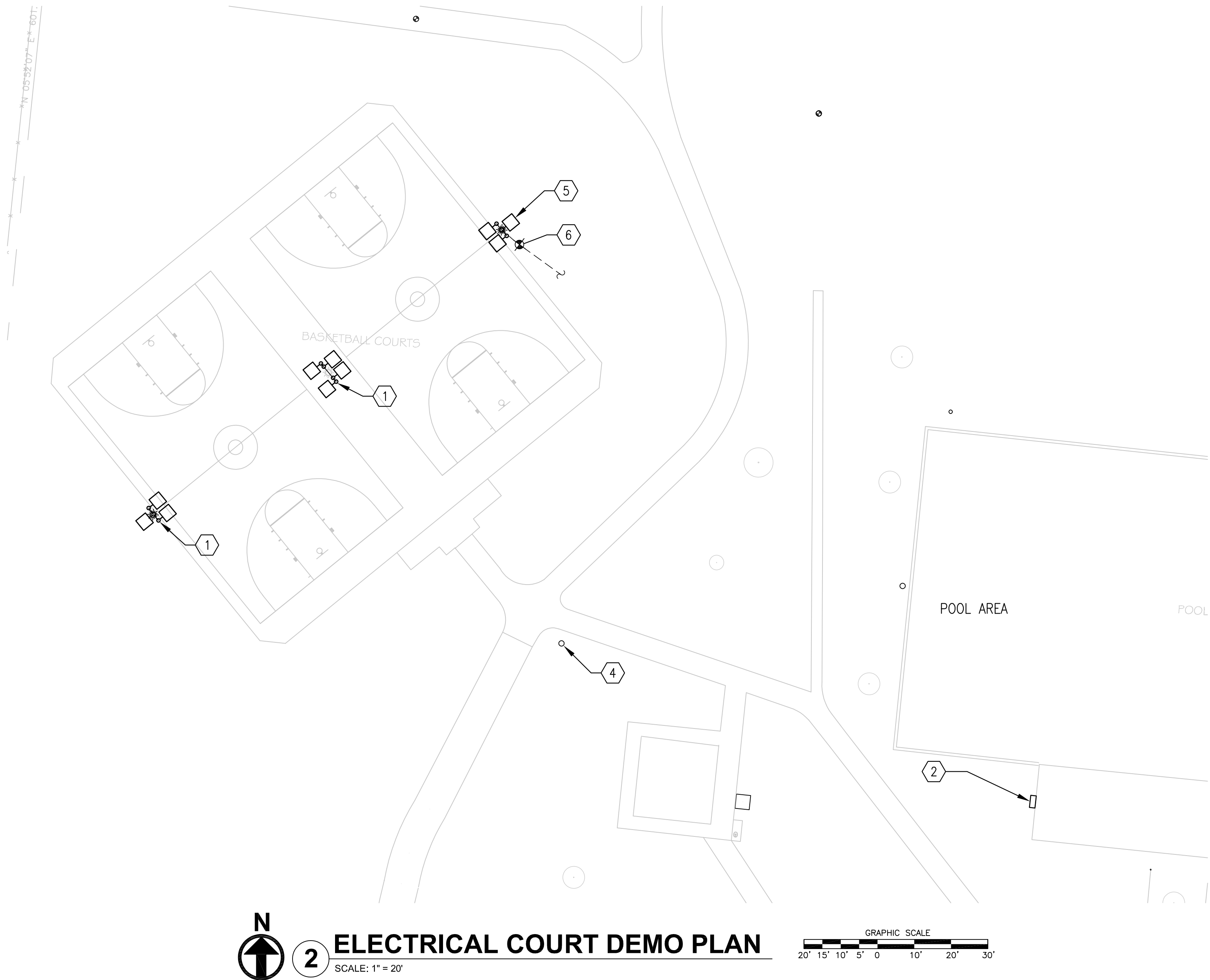
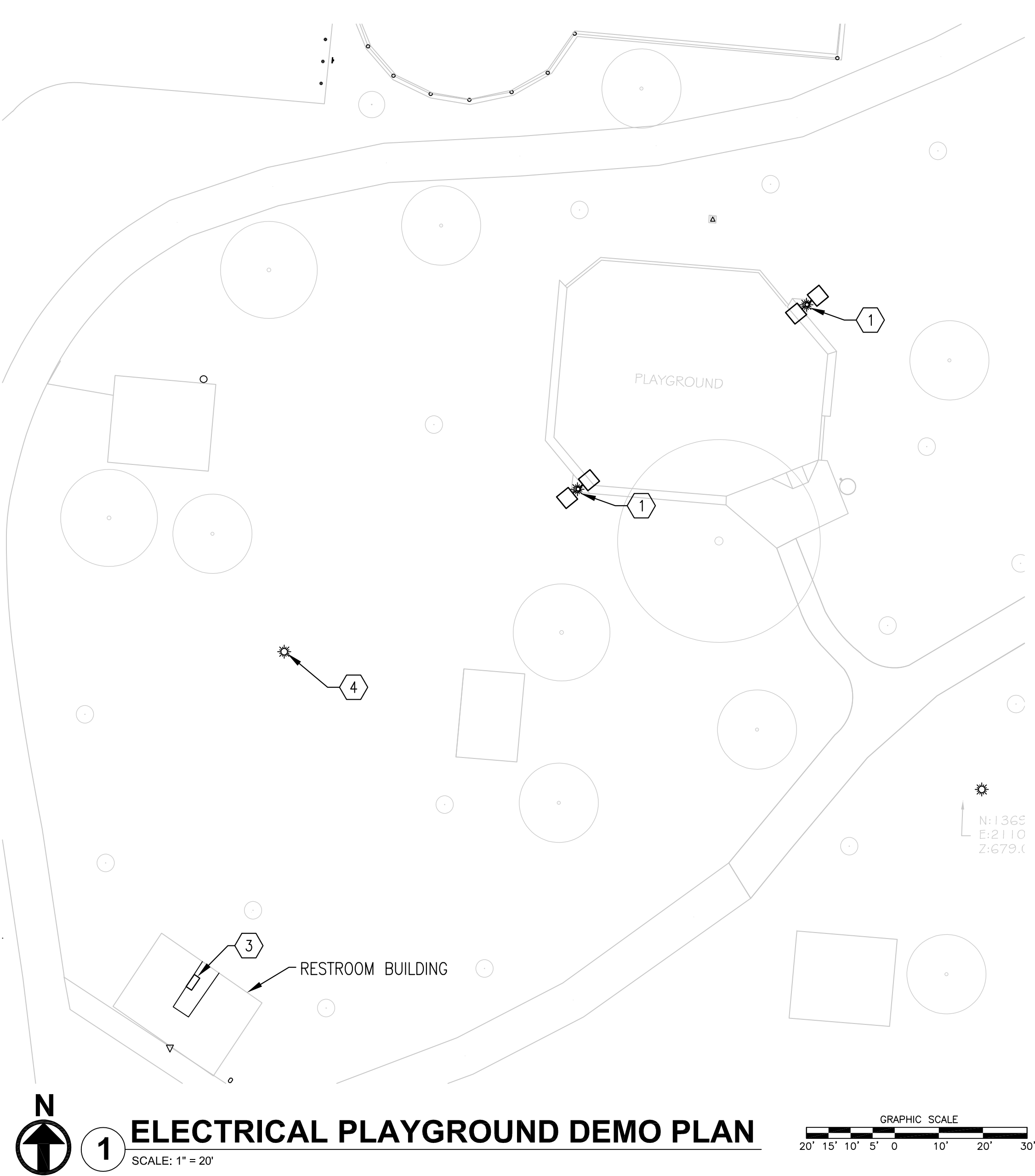
EMBER 10,

SHEET NAME

**ABBREVIATIONS &
SYMBOLS**

SHEET NUMBER

EO.0



KEYED NOTES: (THIS SHEET ONLY)

- EXISTING POLE-MOUNTED FIXTURE AND CONCRETE FOUNDATION SHALL BE DEMOLISHED IN ITS ENTIRETY AND LEFT READY FOR INSTALLATION OF SHADE CANOPY CONCRETE FOUNDATION PIER. REMOVE ELECTRICAL WIRING BACK TO EXISTING TO SOURCE.
- LOCATION OF EXISTING 225A, 120/208V, 3Ø, PANEL 'A' WITHIN ENCLOSURE FEEDING EXISTING BASKETBALL COURT LIGHT FIXTURES THROUGH TWO POLE 20A CIRCUIT BREAKERS (QUANTITY OF 2). LIGHTING CIRCUITS ARE CONTROLLED THROUGH AN EXISTING LIGHTING CONTACTOR CONTROLLED BY A ROTARY TIMECLOCK DEVICE. FIELD VERIFY CIRCUIT NUMBER SERVING LIGHTS BEING REPLACED. EXISTING PANEL AND LIGHTING CONTROLS DEVICES TO REMAIN.
- LOCATION OF EXISTING 100A, 120/240V, 1Ø, PANEL 'B' WITHIN RESTROOM BUILDING FEEDING EXISTING PLAYGROUND LIGHT FIXTURES THROUGH TWO POLE 20A CIRCUIT BREAKERS (QUANTITY OF 2). LIGHTING CIRCUITS ARE CONTROLLED THROUGH AN EXISTING LIGHTING CONTACTOR CONTROLLED BY A PHOTOCELL DEVICE. FIELD VERIFY CIRCUIT NUMBER SERVING LIGHTS BEING REPLACED. EXISTING PANEL AND LIGHTING CONTROLS TO REMAIN.
- EXISTING TO REMAIN POLE MOUNTED LIGHTING FIXTURE.
- REMOVE THE 3 EXISTING POLE-MOUNTED LIGHTING FIXTURES TO BE REPLACED WITH NEW LED TYPE 'A' FIXTURES. REUSE EXISTING WIRING CONNECTIONS. COORDINATE MOUNTING BRACKET REQUIREMENTS WITH EXISTING POLE TO REMAIN.
- INTERCEPT ELECTRICAL CONDUIT SERVING LIGHT POLE AND LEAVE READY FOR INSTALLATION OF IN-GRADE JUNCTION BOX AND EXTENSION OF CIRCUIT TO NEW CANOPY LIGHTS. ELECTRICAL CIRCUIT TO EXISTING LIGHT POLE TO REMAIN. VERIFY CIRCUIT CONFIGURATION AND VOLTAGE PRIOR TO PURCHASING FIXTURES
- DEMOLISH EXISTING POLE AND POLE MOUNTED FIXTURE. DEMOLISH TOP OF CONCRETE POLE FOUNDATION TO 24" BELOW GRADE. INTERCEPT ELECTRICAL CONDUIT SERVING LIGHT POLE AND LEAVE READY FOR INSTALLATION OF IN-GRADE JUNCTION BOX AND EXTENSION OF CIRCUIT TO NEW CANOPY LIGHTS. ELECTRICAL CIRCUITS SERVING EXISTING TO REMAIN LIGHT POLES SHALL BE MAINTAINED ACTIVE DURING CONSTRUCTION. VERIFY CIRCUIT VOLTAGE AND WIRING CONFIGURATION PRIOR TO PURCHASING LIGHTING FIXTURES.

GENERAL DEMOLITION NOTES: (THIS SHEET ONLY)

- 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.
- 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.
- 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.
- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION OR DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE TO USE CALL 811 FOR LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING OR TRENCHING.
- 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.
- THE OWNER SHALL HAVE FIRST RIGHT OF REFUSAL FOR SALVAGED MATERIAL. REQUEST THAT THE OWNER PROVIDE DIRECTION ON DISPOSITION OF SALVAGED MATERIAL FIVE(S) 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.
- UNLESS OTHERWISE NOTED, DEMOLISH ELECTRICAL DEVICES, INCLUDING BUT NOT LIMITED TO: POWER WIRING, RACEWAYS, AND LIGHTING DEVICES. SCHEDULED FOR DEMOLITION.
- 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.
- REMOVE ABANDONED CONDUIT TO POINT OF CONCEALMENT BEHIND INACCESSIBLE SURFACES. ENTIRELY REMOVE ABANDONED WIRING.
- CONTRACTOR SHALL SUBMIT WRITTEN REQUEST TO SHUT OFF POWER TO THE SITE OR ELECTRICAL DEMOLITION AND NEW WORK 10 DAYS PRIOR TO SHUTOFF.



201 GROVETON | SATX 78210
210.314.5582 | MPSTUDIO.IO

STATUS

PROJECT

KENNEDY PARK

COSA DISTRICT 5 PARK

PROJECT ADDRESS

3299 SW 28TH STREET
SAN ANTONIO, TX 78226

OWNER | CLIENT

TCI - CITY OF SAN ANTONIO
114 WEST COMMERCE ST.
SAN ANTONIO, TX 78283

OWNER'S REPRESENTATIVE

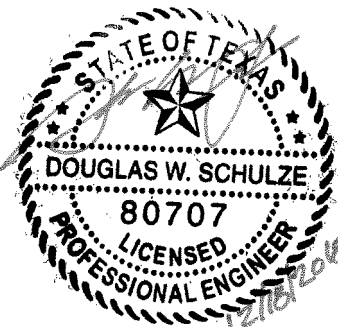
PAT SCHNEIDER
210.207.8466

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1917 N. New Braunfels Avenue
Suite 201
San Antonio, TX 78208
(210)224-8841, (210)224-8824 FAX
TBPE REGISTRATION No.
:F-7964

SUBCONSULTANT



REVISIONS

NO.	DATE	DESCRIPTION
1	12.18.18	100% CD SET

ISSUE SETS

NO.	DATE	DESCRIPTION
1	12.18.18	100% CD SET

SHEET INFORMATION

PROJECT NO.

18001

DATE ISSUED

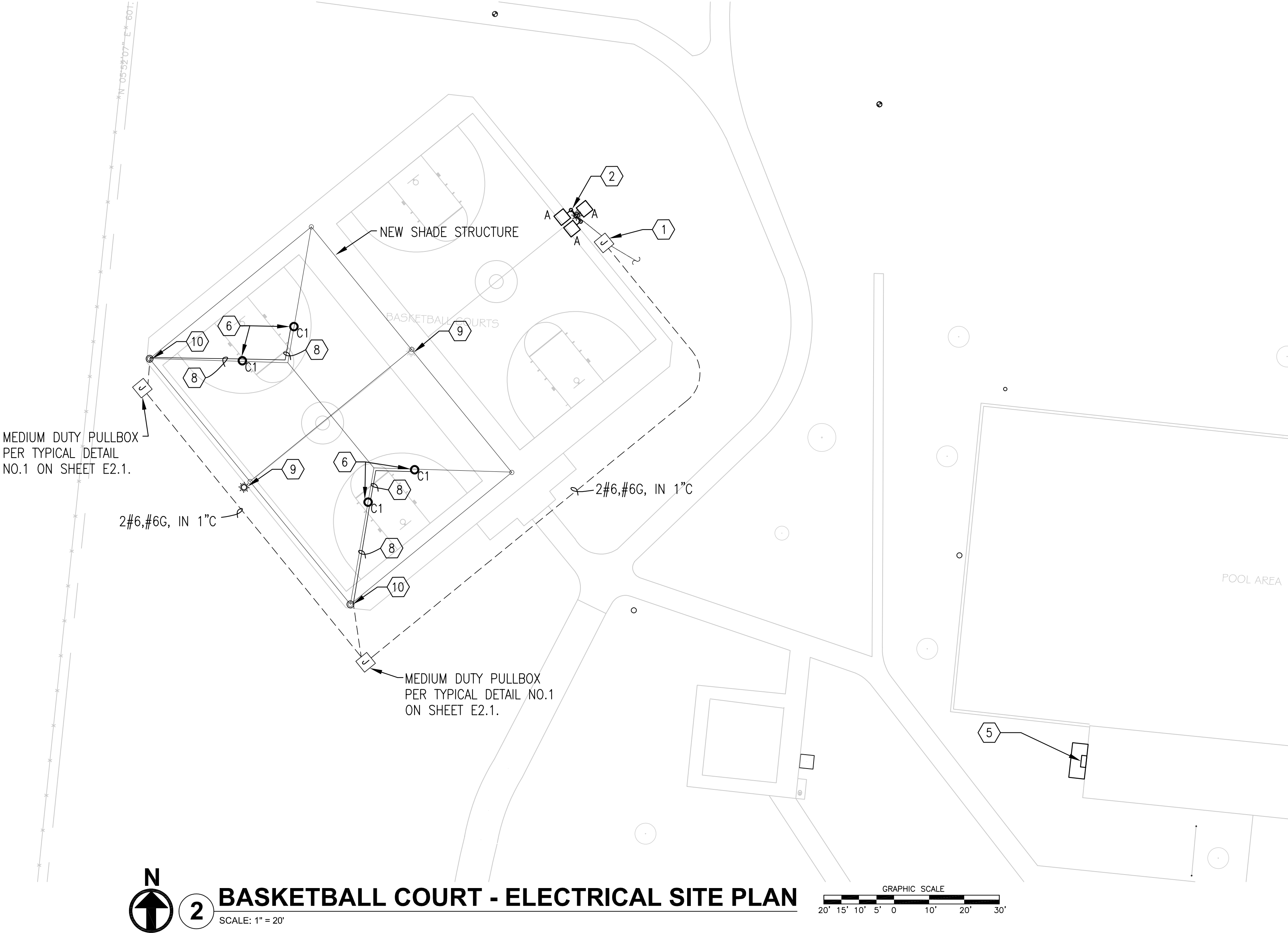
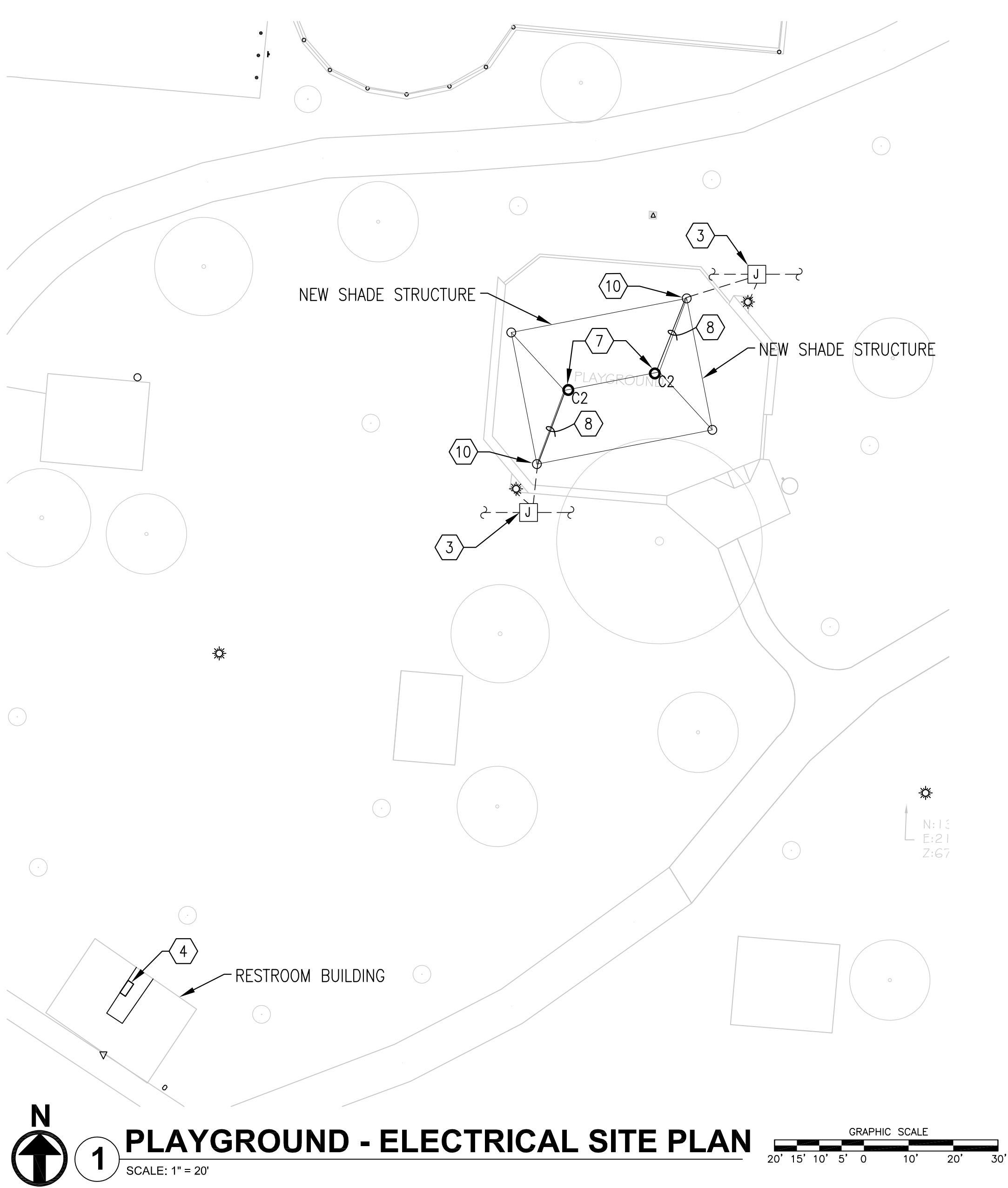
DECEMBER 10, 2018

SHEET NAME

ELECTRICAL DEMOLITION PLAN

SHEET NUMBER

E1.1



KEYED NOTES: (THIS SHEET ONLY)

1. PROVIDE MEDIUM DUTY PULLBOX PER TYPICAL DETAIL NO.1 ON SHEET E2.1. AND INTERCEPT LIGHTING CIRCUITS SERVING EXISTING BASKETBALL COURTS LIGHTS REMOVED DURING DEMOLITION. MAINTAIN EXISTING LIGHTING CIRCUIT TO ADJACENT POLE LIGHT. CONNECT NEW CANOPY MOUNTED LIGHTS LIGHTING TO EXISTING CIRCUIT. EXTEND 2#10,#10G, IN 1" TO NEW CANOPY MOUNTED LIGHTS.
2. INSTALL NEW LIGHTING FIXTURES ON EXISTING POLE AND ARM SUPPORT. CONNECT TO EXISTING LIGHTING CIRCUIT.
3. PROVIDE MEDIUM DUTY PULLBOX PER TYPICAL DETAIL NO.1 ON SHEET E2.1. AND AND INTERCEPT LIGHTING CIRCUITS SERVING EXISTING PLAYGROUND POLE LIGHTS REMOVED DURING DEMOLITION. CONNECT NEW CANOPY MOUNTED LIGHTING FIXTURES TO EXISTING CIRCUIT. EXTEND 2#6,#6G, IN 1" TO NEW CANOPY MOUNTED LIGHTS.
4. LOCATION OF EXISTING PANEL 'B'. REFER TO SHEET E1.1 FOR MORE INFORMATION.
5. LOCATION OF EXISTING PANEL 'A'. REFER TO SHEET E1.1 FOR MORE INFORMATION.
6. PROVIDE TYPE "C1" LIGHTING FIXTURE MOUNTED ON CANOPY AT SHADE MANUFACTURER PROVIDED PLATES. COORDINATE WITH LIGHTING FIXTURE MANUFACTURER FOR EXACT MOUNTING INSTRUCTIONS.
7. PROVIDE TYPE "C2" LIGHTING FIXTURE MOUNTED ON CANOPY AT SHADE MANUFACTURER PROVIDED PLATES. COORDINATE WITH LIGHTING FIXTURE MANUFACTURER FOR EXACT MOUNTING INSTRUCTIONS.
8. EXTEND LIGHTING CIRCUIT INSIDE SHADE STRUCTURE FRAME. COORDINATE INSTALLATION WITH SHADE STRUCTURE VENDOR.
9. DEMOLISHED POLE LIGHT FIXTURE. REFER TO SHEET E1.1.
10. PROVIDE PVC SCH. 40 RACEWAY THROUGH NEW SHADE STRUCTURE CONCRETE FOUNDATION FOOTING. TRANSITION AT HANDHOLE TO LFMC AND EXTEND CIRCUIT THROUGH METAL SHADE FRAME TO STRUCTURE MOUNTED LIGHTING FIXTURE. REFER TO SHADE VENDOR INSTALLATION DRAWINGS FOR ADDITIONAL INFORMATION AND HANDHOLE LOCATIONS.

GENERAL NOTES: (THIS SHEET ONLY)

- A. FOR SYMBOLS AND ABBREVIATIONS, REFER TO SHEET E0.0.
- B. PROVIDE SCH. 40 PVC DIRECT-BURIAL CONDUITS. BURY CONDUITS A MINIMUM OF 24" BELOW FINISHED GRADE OR PAVEMENT. PROVIDE CONCRETE CAP NOT LESS THAN 2" THICK ABOVE DIRECT BURIED LOW VOLTAGE CONDUITS WHERE SUBJECT TO VEHICULAR OR EXCAVATION DAMAGE OR WHERE MINIMUM BURIAL DEPTH CANNOT BE ACHIEVED.
- C. PROVIDE ALL EMPTY CONDUIT WITH PULLSTRING AND END BUSHINGS
- D. NOTES TO CITY PLAN REVIEWER:
D.A. PROJECT IS EXEMPTED FROM IECC REQUIREMENTS. ELECTRICAL EXTERIOR LIGHTING CIRCUITS ORIGINATE FROM ELECTRICAL DISTRIBUTIONS SERVING NON-CONDITIONED BUILDINGS.
D.B. THIS PARK IS LOCATED WITHIN 5 MILES OF THE JOINT BASE-LACKLAND. LIGHTING MODIFICATIONS WILL COMPLY WITH THE REQUIREMENTS FOR MILITARY OVERLAY ORDINANCE.

KENNEDY PARK

COSA DISTRICT 5 PARK

PROJECT ADDRESS

3299 SW 28TH STREET
SAN ANTONIO, TX 78226

OWNER | CLIENT

TCI - CITY OF SAN ANTONIO
114 WEST COMMERCE ST.
SAN ANTONIO, TX 78283

OWNER'S REPRESENTATIVE

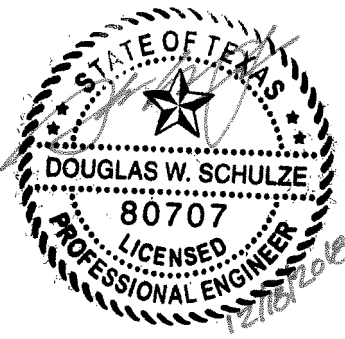
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TBPE REGISTRATION No.
:F-7964



REVISIONS

NO.	DATE	DESCRIPTION
1	12.18.18	100% CD SET

ISSUE SETS

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1	12.18.18	100% CD SET

SHEET INFORMATION

PROJECT NO.

18001

DATE ISSUED

DECEMBER 10, 2018

SHEET NAME

ELECTRICAL SITE PLAN

SHEET NUMBER

E1.2

KENNEDY PARK

COSA DISTRICT 5 PARK

PROJECT ADDRESS

3299 SW 28TH STREET
SAN ANTONIO, TX 78226

OWNER | CLIENT

TCI - CITY OF SAN ANTONIO

114 WEST COMMERCE ST.
SAN ANTONIO, TX 78283

OWNER'S REPRESENTATIVE

PAT SCHNEIDER

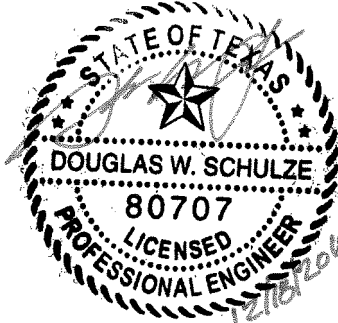
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SHEET INFORMATION

PROJECT NO.

18001

DATE ISSUED

DECEMBER 10, 2018

SHEET NAME

ELECTRICAL SCHEDULES
& DETAILS

SHEET NUMBER

LIGHTING FIXTURE SCHEDULE

TYPE	LAMPS	MOUNTING	MOUNT HEIGHT	VOLTS	WATTS	DESCRIPTION	MANUFACTURER AND CATALOG NO.
A	4000K 13079 LUMENS LED	POLE-MOUNTED (REFER TO E1.2)	30 FT	208V	325W	HEAVY DUTY, AREA, FULL CUTOFF LUMINAIRE WITH PAINTED HOUSING (COORDINATE WITH ARCHITECT), TYPE 4 OPTICS.	HUBBELL BEACON MA-A-64L-325-4K7-4-208-A2-DB-CONTROLS
C1	4000K 9391 LUMENS LED	MOUNTED TO CANOPY	REFER TO CANOPY	208V	86.3	HEAVY DUTY CUTOFF CANOPY LUMNAIRE WITH PAINTED HOUSING (COORDINATE WITH ARCHITECT), TYPE 5 OPTICS, SURGE PROTECTION, VANDAL SHIELD, AND MOUNTING BRACKET.	HUBBELL ARS-36L4K-070-5M-2-BL-SPC WITH ARS-MB-BL, 93052458, AND RETA2-BL
C2	4000K 9391 LUMENS LED	MOUNTED TO CANOPY	REFER TO CANOPY	240V	86.3	HEAVY DUTY CUTOFF CANOPY LUMNAIRE WITH PAINTED HOUSING (COORDINATE WITH ARCHITECT), TYPE 5 OPTICS, SURGE PROTECTION, VANDAL SHIELD, AND MOUNTING BRACKET.	HUBBELL ARS-36L4K-070-5M-3-BL-SPC WITH ARS-MB-XX, AND 93052458
Notes: 1. ALTERNATE EQUIVALENT MANUFACTURERS MAY BE SUBMITTED TO BASIS OF DESIGN BY APPROVAL. ACCEPTANCE TO BE DETERMINED BY EOR.							

ELECTRICAL LOAD ANALYSIS SUMMARY

PROJECT:	KENNEDY PARK	PHASE TO PHASE	120		
ADDRESS:	3299 SW 28TH ST SAN ANTONIO, TX 78226	PHASE TO NEUTRAL	208		
OWNER:	COSA	PHASE	3		
		WIRES	4		
LOAD DESCRIPTION		QUANTITY	VA	kVA	AMPS
A. REMOVED LOADS					
POLE LIGHTS		3	3,600	3.60	17.3
B. ADDED LOADS					
POLE LIGHTS		1	975	0.98	4.7
SHADE STRUCTURE LIGHTS		4	345	0.35	1.7
C. NET CHANGE IN LOADS					
REDUCTION IN LOAD:			(2,625)	(2.625)	(12.6)

NOTES:

- ELECTRICAL LOADS SHOWN ABOVE ARE ARE SUPPLIED BY PANELBOARD 'A' FOR THE BASKETBALL COURT. PANEL 'A' IS A 225 AMP 120/208V PANEL THAT SHOULD BE ABLE TO ACCOMMODATE THE CHANGE IN LOAD.
- THIS PROJECT PROVIDES A NET DECREASE IN ELECTRICAL LOAD TO THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM.**
- CONTRACTOR SHALL FIELD VERIFY EXISTING PANEL LOAD CAPACITIES IN ORDER TO CONFIRM INDIVIDUAL PANELS ARE CAPABLE OF ACCOMMODATING THE INDIVIDUAL ELECTRICAL LOADS.

ELECTRICAL LOAD ANALYSIS SUMMARY

PROJECT:	KENNEDY PARK	PHASE TO PHASE	120		
ADDRESS:	3299 SW 28TH ST SAN ANTONIO, TX 78226	PHASE TO NEUTRAL	240		
OWNER:	COSA	PHASE	1		
		WIRES	3		
LOAD DESCRIPTION		QUANTITY	VA	kVA	AMPS
A. REMOVED LOADS					
POLE LIGHTS		2	1,500	1.50	6.3
B. ADDED LOADS					
CANOPY LIGHTS		2	173	0.17	0.7
C. NET CHANGE IN LOADS					
REDUCTION IN LOAD:			(1,327)	(1.327)	(5.5)

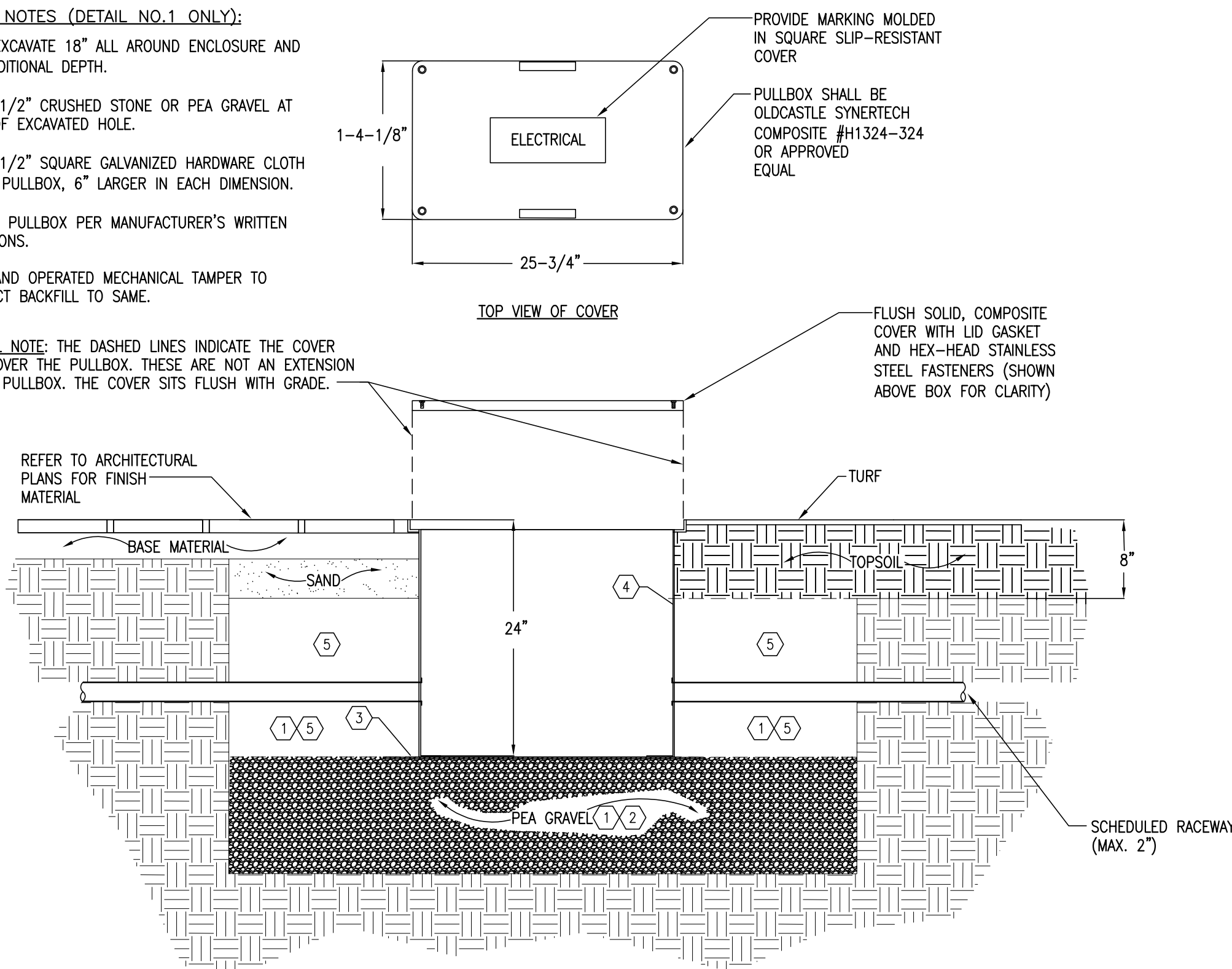
NOTES:

- ELECTRICAL LOADS SHOWN ABOVE ARE ARE SUPPLIED BY PANELBOARD 'B' FOR THE PLAYGROUND AREA. PANEL 'B' IS A 100 AMP 120/240V PANEL THAT SHOULD BE ABLE TO ACCOMMODATE THE CHANGE IN LOAD.
- THIS PROJECT PROVIDES A NET DECREASE IN ELECTRICAL LOAD TO THE EXISTING ELECTRICAL DISTRIBUTION SYSTEM.**
- CONTRACTOR SHALL FIELD VERIFY EXISTING PANEL LOAD CAPACITIES IN ORDER TO CONFIRM INDIVIDUAL PANELS ARE CAPABLE OF ACCOMODATING THE INDIVIDUAL ELECTRICAL LOADS.

① KEYED NOTES (DETAIL NO.1 ONLY):

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

GENERAL NOTE: THE DASHED LINES INDICATE THE COVER LIFTED OVER THE PULLBOX. THESE ARE NOT AN EXTENSION OF THE PULLBOX. THE COVER SITS FLUSH WITH GRADE.



1 MEDIUM DUTY PULLBOX

SCALE: NOT-TO-SCALE

As manufactured and installed by USA SHADE & Fabric Structures
Contact: Michelle Botha; (512) 937-6430, (800) 966-5005
Email: mbotha@usa-shade.com

STRUCTURE TYPE:
HIP

SIZE:
30' X 40' X 14' e




USASHADE
 & Fabric Structures

CORPORATE HEADQUARTERS
 8505-A CHANCELLOR ROW
 DALLAS, TX, 75247
 800-966-5005

A	ADDED NOTES	12/11/16	YH	YH	YH	ENG
-	-	10/04/18	YH	YH	YH	
REV	DESCRIPTION	DATE	DRW	CHK	ENG	

REV. **A**



CITY OF SAN ANTONIO																									
PROJECT NAME: <div style="text-align: center; font-weight: bold; font-size: 1.2em;">KENNEDY PARK - SAMPLE</div>																									
LOCATION: <div style="text-align: center; font-weight: bold;">3299 SW 28TH ST SAN ANTONIO, TX 78228</div>																									
STRUCTURE TYPE: <div style="text-align: center; font-weight: bold;">SS HIP SIX POST JOINED</div>																									
SIZE: <div style="text-align: center; font-weight: bold;">120' X 90' X 15' e</div>																									
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 40%;"> <p style="font-size: 0.8em; line-height: 1.2;">THESE PLANS AND SPECIFICATIONS ARE THE PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.</p> </div> <div style="width: 50%; text-align: center;">  <div style="margin-top: 10px;"> <div style="font-weight: bold; font-size: 1.5em; margin-bottom: 5px;">USASHADE</div> <div style="font-size: 0.8em; margin-bottom: 5px;">a fabric structures</div> </div> </div> </div> <div style="margin-top: 20px; text-align: center;"> CORPORATE HEADQUARTERS 8505-A CHANCELLOR ROW DALLAS, TX. 75247 800-966-5005 </div>																									
CERTIFICATIONS: <div style="font-size: 0.8em; margin-top: 5px;"> IAS CERTIFICATION No: FA-428 CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355 </div>																									
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A	ADDED NOTES	12/11/16	YH	-			REV																		
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DESCRIPTION		DATE	DRW	CHK	ENG																				
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Drawn By :</td> <td style="width: 20%;">YH</td> <td style="width: 40%;">12/11/16</td> </tr> <tr> <td>Checked By :</td> <td>YH</td> <td>12/11/16</td> </tr> <tr> <td>Approved By :</td> <td>YH</td> <td>12/11/16</td> </tr> </table>					Drawn By :	YH	12/11/16	Checked By :	YH	12/11/16	Approved By :	YH	12/11/16												
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Approved By :	YH	12/11/16																							
DRAWING DESCRIPTION: <div style="text-align: center; font-weight: bold; font-size: 1.2em;">STRUCTURE #2</div>																									
DWG. <div style="text-align: center; font-weight: bold; font-size: 1.5em;">CON-OCT-005-18</div>																									
PAGE <div style="text-align: center; font-weight: bold; font-size: 1.2em;">1001</div>																									
REV. <div style="text-align: center; font-weight: bold; font-size: 2em; color: red;">A</div>																									

SECTION 13 31 23
PRE-ENGINEERED SHADE STRUCTURES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General Conditions and Division 1 Specification Sections apply to this section.

1.2 SUMMARY

- A. The shade structure contractor shall be responsible for the design, engineering, fabrication, supply, and installation (including foundations) of the work specified herein. The intent of this specification is to have only one single contractor be responsible for all the above functions.

1.3 REFERENCES

- A. Shade Structures must comply with the latest revision of applicable codes and regulations including IBC 2018.
- B. American Society for Testing Materials (ASTM)
- C. American Welding Society: Structural Welding Code AWS D1.1: Symbols for Welding and Nondestructive Testing AWS 2.3.
- D. International Accreditation Services (IAS)
- E. American Institute of Steel Construction (AISC): Specifications for the design, fabrication, and erection of structural steel.

1.4 SUBMITTALS

- A. Provide proof of installed reference sites with six structures for similar scope of project and installation that are engineered to IBC Specifications.
- B. Provide a minimum of 13 fabric samples to demonstrate fabric color range and powder color selections.
- C. Provide proof of all quality assurance items including:
 - 1. A list of at least three reference projects of similar type structures that have been installed in the last 10 years as described below in 2.1 General, Scope.
 - 2. Proof of general liability, professional liability, and umbrella insurance as per section 1.5 D.
 - 3. Proof of a minimum of \$25,000,000 aggregate bonding capacity as per Section 1.5 E.
 - 4. Proof of IAS Certification per Section 1.5 F.
 - 5. Proof of current status as an ISNetworld Member Contractor.
 - 6. Proof of a Corporate Safety Program along with an Injury & Illness Prevention Program.
 - 7. Proof of Corporate Quality Control Manual as per Section 1.5 H

1.5. QUALITY ASSURANCE

Fabrication and erection are limited to firms with proven experience in design and construction of fabric shade structures and such firms shall meet the following minimum requirements. No substitutions shall be allowed for the following:

- A. A single shade contractor shall design, engineer, manufacture, and erect the fabric shade structures including the foundations.
- B. All bidders shall have at least 15 years' experience in the design, engineering, manufacturing, and installation of shade structures.
- C. All bidders shall engineer to IBC 2018 requirements with similar scope.

- D. All bidders shall be able to provide proof of a minimum of \$1,000,000 general/public liability insurance, \$3,000,000 professional liability (PL) insurance, and an additional \$10,000,000 umbrella/excess liability insurance.
- E. All bidders shall be licensed and bonded with a minimum bonding capacity of \$6,000,000 and aggregate bonding capacity of \$25,000,000.
- F. Steel manufacturer shall be accredited by IAS (International Accreditation Service) for Structural Steel Fabrication under UBC 97 & 2000 Section 1701.7 and IBC 2018 Section 1704.2.2.
- G. Proof of current status as an ISNetworld Member Contractor.
- H. The shade contractor shall have a Corporate Quality Control program and manual describing their complete quality assurance program.
- I. All bidders must have an in-house warranty & service department and local office to assist in repairs and service calls.

1.7 WARRANTY

- A. The successful bidder shall provide a 12-month warranty on all labor and materials.
- B. A supplemental warranty from the manufacturer shall be provided for a period of 10 years (pro-rated) on fabric and 10 years on the structural integrity of the steel from the date of substantial completion.
- C. The warranty shall not deprive the Owner of other rights under the provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.

PART 2 – PRODUCTS

2.1 GENERAL

1. **Scope: Playground Shade**
Provide (1) One 4 Post Hip Structure, Model # 401_3040_14E measuring 30'x 40' x 14' entry height per CON-OCT-005-18 (1000). Columns shall measure a minimum of 5.0 GA 7 Round Tubing and upper framing extensions measuring a minimum of 4.0 GA 7 Round Tubing. The framing shall support one 30' x 40' fabric top. No exceptions.
 2. **Scope: Basketball Shade**
Provide (1) One 6-Post Super Span Hip, Model # 601_6090_15DC measuring 60' x 90' x 15' entry height per CON-OCT-005-18 (1001). Columns shall measure a minimum of HSS 10 x 10 x .25 with upper framing extensions measuring a minimum of HSS 8 x 6 x .25. The framing shall support one 60' x 90' fabric top with kedar rail. Structure to be engineered as 90' x 120' Double Super Span with inner 3 columns to be fabricated with double caps for future installation of secondary structure. No exceptions.
 3. **Steel columns and upper frame of both structures must be designed and built to accommodate integrated wiring and lighting fixtures.** Appropriate openings (with covers) shall be designed to allow wiring to be pulled through the hollow inside of the structure's steel, resulting in electrical power to be available for light fixtures, which will be attached to the steel's upper frame. Wiring and lighting fixtures will be installed by others after the erection of the steel structure. Once wiring is placed, fitted covers in the same steel texture and color shall be placed over the openings to create a polished look.
- A. The structures shall be manufactured by Shade Structures, Inc.dba USA SHADE & Fabric Structures, or approved equivalent and include the structural steel frame, fabric roof, steel cables, all fasteners, and installation. Project management and foundations will also be included.

Contact: USA SHADE & Fabric Structures
 8505 Chancellor Row
 Dallas, Texas 75247
 Contact Name: Michelle Botha – Phone: 512-937-6430
mbotha@usa-shade.com

- B. To qualify as an approved equivalent, please submit product documentation, fabric samples and all quality assurance criteria as per Section 1.4 at least 10 days prior to bid date. Approved equals will be issued per addendum prior to bid date.
- C. The shade structure shall conform to the current adopted version of the International Building Code 2015 and local agency additions and amendments.
- D. All shade structures are engineered and designed to meet a minimum of 90 mph wind load, Exposure C, live load of 5 lbs/sf² and a 5 lbs/sft² snow load. When ASD Steel Design Method is used based on IBC 2018 Section 1605.3.1, the Dead + 0.75 of Live + 0.75 of Wind Load cases must be combined. NO EXCEPTIONS.
- E. Steel:
 - 1. All steel members of the shade structure shall be designed in strict accordance with the requirements of the "American Institute of Steel Construction" (AISC) Specifications and the "American Iron and Steel Institute" (AISI) Specifications for Cold Formed Members and manufactured in a IAS (International Accreditation Service) accredited facility for Structural Steel Fabrication as per IBC 2018 Section 1704.2.2.
 - 2. All connections shall have a maximum internal sleeving tolerance of .0625 inches using high tensile strength steel sections with a minimum sleeve length of 6 inches.
 - 3. All non-hollow structural steel members shall comply with ASTM A-36. All hollow structural steel members shall be cold formed, high strength steel and comply with ASTM A-500, Grade C. All steel plates shall comply with ASTM A-572, Grade 50. All galvanized steel tubing shall be triple coated for rust protection using an in-line electro-plating coat process. All galvanized steel tubing shall be internally coated with zinc and organic coatings to prevent corrosion.
- F. Welding:
 - 1. All shop-welded connections of the shade structure shall be designed and performed in strict accordance with the requirements of the "American Welding Society" (AWS) Specifications. Structural welds shall be made in compliance with the requirements of the "Prequalified" welded joints where applicable and by certified welders. No onsite or field welding shall be permitted.
 - 2. All full penetration welds shall be continuously inspected by an independent inspection agency and shall be tested to the requirement of IBC 2018 and local agency additions and amendments.
- G. Powder Coating:
 - 1. Galvanized steel tubing preparation prior to powder coating shall be executed in accordance to solvent cleaning SSPC-SP1. Solvent such as water, mineral spirits, xylol, toluol, which are to be used to remove foreign matter from the surface. A mechanical method prior to solvent cleaning prior to surface preparation shall be executed according to Power Tool Cleaning SSPC-SP3 and utilizing wire brushed abrasive wheels and needle gun, etc.
 - 2. Carbon structural steel tubing preparation prior to powder coating shall be executed in accordance to commercial blast cleaning SSPC-SP6 or NACE #3. A commercial blast cleaned surface, when viewed without magnification, shall be free of all visible oil, grease, dirt, mill scale, rust, coating, oxides, corrosion, products and other foreign material.
 - 3. Powder coating shall be sufficiently applied, with a minimum three mils thickness and cured at the recommended temperature to provide proper adhesion and stability to meet salt spray and adhesion tests as defined by the American Society of Testing Materials.
 - 4. Powder used in the powder coat process shall have the following characteristics:
 - a. Specific Gravity: 1.77 +/- 0.05 g/cm³
 - b. Coverage at 1.0 mils: 109sq.ft/lb/mil
 - c. Storage: 80° F
 - d. Interpron 800 HR is a series of high durability TGIC powder coatings designed for exterior exposure. Tested against the most severe specifications, Interpron 800 HR gives significantly improved gloss retention and resistance to color change.

- H. Tension Cable: Steel cable is determined based on calculated engineering loads.
 - 1. For light and medium loads, 1/4" (nominal) galvanized 7 x 19 strand cable to be used.
 - 2. For heavy loads, 3/8" (nominal) galvanized 7 x 19 cable to be used.
- I. Fabric Roof Systems
 - 1. UV shade fabric is made of UV stabilized Shadesure® cloth as manufactured by MultiKnit Ltd and made of a UV stabilized high-density polyethylene mesh. Mesh shall be raschel knitted with monofilament and tape yarn filler to ensure that material will not unravel if cut. Panels to be 10ft. wide.
 - 2. Fabric Properties:
 - a. Life Expectancy: A minimum of 8 years continuous exposure to the sun
 - b. Fading: Minimum fading after 5 years (3 years for red)
 - c. Fabric Mass: 2.43-2.58 oz/sqft (190-200g/sm)
 - d. Fabric Width: 9.8425 (3m)
 - e. Roll Length: 164.04 (50m)
 - f. Roll Dimensions: 62.99"x16.5354" (160 cm x 42 cm)
 - g. Roll Weight: +/- 66 lbs (+/-30 kg)
 - h. Minimum Temperature: -13°F (-25° C)
 - i. Maximum Temperature: +176°F (80° C)
 - 3. Stitching & Thread:
 - a. All sewing threads are to be double stitched.
 - b. Thread shall be GORE Tenara Sewing Thread manufactured from 100% expanded PTFE (Teflon); mildew resistant exterior approved thread with 10-year warranty. Thread shall meet or exceed the following:
 - 1) Flexible temperature range
 - 2) Very low shrinkage factor
 - 3) Extremely high strength, durable in outdoor climates
 - 4) Resists flex and abrasion of fabric
 - 5) Unaffected by cleaning agents; acid rain, mildew, salt water and rot resistant, unaffected by most industrial pollutants
 - 6) Treated for prolonged exposure to the sun

2.2 SHIPPING AND HANDLING

- A. All steel surfaces touched by tie down straps are to be padded before final clinching. This can be accomplished by using carpet pads or factory manufactured padding.
- B. All dunnage must be padded before painted products are set in place. Smaller and loose pieces must be padded and totally separate from paint padding.
- C. Unloading: Lift forks to be covered with padding. All dunnage must be padded vertically and horizontally to prevent damage to painted surfaces. When unloading, take care to prevent tools and other hard surface items from making contact.

PART 3 – EXECUTION

3.1 INSTALLATION

- A. Installation of shade structures shall be performed by manufacturer or manufacturer-approved contractor, which shall be bonded and holding a current contractor's license with the State of Texas Contractors State License Board. All installation personnel must have experience in the erection of tensioned fabric structures.
- B. The contractor installing the structure shall comply with manufactures instructions for assembly, installation, and erection per approved drawings.

C. Concrete:

1. Unless noted otherwise for footing and piers by General Contractor's Engineer, concrete specification for footings, piers, slabs, curbs and walkways shall meet a minimum 2,500 psi at 28-day strength.
2. Concrete work is executed in strict accordance with the latest American Concrete Institute Building Code (ACI 318-99).
3. Slump 4" maximum.
4. Whenever daily ambient temperatures are below 80 degrees Fahrenheit, the contractor may have mix accelerators and hot water added at the batch plant.
 - a. Temperature range between 75-80 degrees, 1% accelerator High Early (non-calcium)
 - b. Temperature range between 70-75 degrees, 2% accelerator High Early (non-calcium)
 - c. Temperature range below 70 degrees, 3% accelerator High Early (non-calcium)
5. The contractor shall not pour any concrete when daily ambient temperature is below 55 degrees Fahrenheit.

Temperature Range	% Accelerator	Type Accelerator
75-80 degrees	1%	High Early (non-calcium)
70-75 degrees	2%	High Early (non-calcium)
Below 70 degrees	3%	High Early (non-calcium)

D. Foundations:

1. All Anchor Bolts set in new concrete shall be ASTM F-1554 GR 55
2. All Anchor Bolts shall be Hot Dipped Galvanized
3. Pier Footings:
Structure 1 - Minimum footing size shall be 24" diameter x 7' depth and placed in accordance with/ and conform to manufacturers engineered specifications and drawings.
Structure 2 – Minimum footing size shall be 30" diameter x 12' depth and placed in accordance with/ and conform to manufacturers engineered specifications and drawings.

END OF SECTION 13 31 23