

# HISTORIC AND DESIGN REVIEW COMMISSION

April 03, 2024

**HDRC CASE NO:** 2024-119  
**ADDRESS:** 600 HEMISFAIR PLAZA WAY  
**LEGAL DESCRIPTION:** NCB 13814 BLK 3 LOT PT OF 12 ARB 12G (GIS AC 3.847 AC)  
**ZONING:** D, RIO-3, H  
**CITY COUNCIL DIST.:** 1  
**DISTRICT:** Hemisfair Historic District  
**APPLICANT:** Andres Andujar/Hemisfair Park Area Redevelopment Corp  
**OWNER:** Hemisfair Park Area Redevelopment Corp  
**TYPE OF WORK:** Construction of a covered sports court  
**APPLICATION RECEIVED:** March 15, 2024  
**60-DAY REVIEW:** May 14, 2024  
**CASE MANAGER:** Edward Hall

## REQUEST:

The applicant is requesting a Certificate of Appropriateness for approval to construct a sports court and open-air pavilion in the planned Tower Park at Hemisfair, in the location of the existing pond. The proposed court will feature a concrete slab surface measuring one-hundred six (106) feet by sixty-two (62) feet, a roof structure and an overall height of approximately twenty-nine (29) feet.

## APPLICABLE CITATIONS:

*Unified Development Code Section. 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, beams, 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 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 applicant is requesting a Certificate of Appropriateness for approval to construct a sports court and open-air pavilion in the planned Tower Park at Hemisfair, in the location of an existing, man-made pond. The proposed court will feature a concrete slab surface measuring one-hundred six (106) feet by sixty-two (62) feet, a roof structure and an overall height of approximately twenty-nine (29) feet.
- b. DESIGN REVIEW COMMITTEE – This proposal was reviewed by the Design Review Committee on March 12, 2024. At that meeting, Commissioners asked questions regarding the proposed design, materials, lighting and future landscaping.
- c. EXISTING SITE – The applicant has proposed to construct the proposed sports court in the location of the existing pond, which will require the demolition of the existing elements. The pond was constructed in 1988, is no longer functioning and is not contributing to Hemisfair. Staff finds its removal to be appropriate.
- d. EXISTING SITE – The existing site features a number of existing trees. The applicant has noted coordination with the City Arborist office regarding tree preservation. Additionally, the applicant has noted the planting of two new trees on site.
- e. COURT & PAVILION (Footprint & Massing) – The applicant has proposed to construct a sports court to feature a concrete slab surface measuring one-hundred six (106) feet by sixty-two (62) feet, a roof structure and an overall height of approximately twenty-nine (29) feet. Staff finds the proposed footprint and overall height of the court and pavilion to be appropriate.
- f. PAVILION (Materials) – The applicant has proposed for the pavilion to feature materials that include metal columns, soffits and roof decking. The applicant has noted ceiling material options to include metal panels, PVC panels or high-density polyethylene. Generally, staff finds the proposed materials to be appropriate. Final materials selections should be submitted to OHP staff for review and approval.
- g. PAVILION (Lighting) – The applicant has submitted a reflected ceiling plan that notes the locations of lighting fixtures. Additionally, the applicant has noted both uplighting and downlighting from the structural columns. Staff finds the proposed lighting to be appropriate and that lighting, as proposed, will not create light pollution throughout Hemisfair.
- h. LANDSCAPING – Detailed landscaping plans have not been submitted at this time. Staff finds that any future landscaping or seating elements be submitted to OHP staff for review and approval. These plans should be

developed to complement future hardscaping and landscaping plans for this section of Hemisfair and Tower Park.

- i. ARCHAEOLOGY – An archaeological investigation is required. The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology, as applicable. Work within public property is subject to the Texas Antiquities Code.

**RECOMMENDATION:**

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

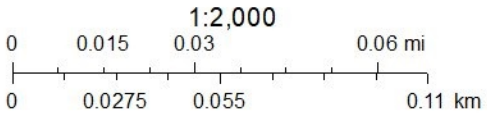
- i. That final ceiling materials specifications be submitted to OHP staff for review and approval.
- ii. That any future landscaping or seating elements be submitted to OHP staff for review and approval. These plans should be developed to complement future hardscaping and landscaping plans for this section of Hemisfair and Tower Park.
- iii. ARCHAEOLOGY – An archaeological investigation is required. The project shall comply with all federal, state, and local laws, rules, and regulations regarding archaeology, as applicable.



City of San Antonio One Stop



March 27, 2024







CITY OF SAN ANTONIO  
**OFFICE OF HISTORIC  
PRESERVATION**

**Historic and Design Review Commission**  
***Design Review Committee Report***

DATE: March 12, 2024

HDRC Case #: 2024-119

Address: Hemisfair Park

Meeting Location: Webex

APPLICANT: Andres Andujar

DRC Members present: Jeff Fetzer, Monica Savino, Roland Mazuca, Jason Vasquez

Staff Present: Edward Hall, Cory Edwards

Others present: Gary Boyd, Melissa Chamrad

**REQUEST:**

Construction of a basketball pavilion at Hemisfair Park

**COMMENTS/CONCERNS:**

AA: Overview of request, concept and background of design, location of pavilion (at pond location; pond constructed in 1988). The pond is no longer functional; the equipment is in disrepair. Water is stagnant and not flowing.

MS: Questions regarding landscaping – will additional trees be planted? (AA: Yes, two new trees; many existing trees that will be protected. In discussion with City Arborist regarding impacts to two potential trees; will mitigate.) MS: Please provide shade studies and how that will impact the trees.

AA: Discussion regarding future potential elements (such as seating).

JF: An exciting project. Study another level of awning or vertical louvers to extend the shade larger than the footprint of the roof.

AA: Phase 2 of the project will potentially include additional shading elements and water features. Phase 1 will be limited to the pavilion element.

MS: Questions about court surface and drainage (AA: Concrete slab with a special paint. 0% Slope. Sloping is under consideration; to the south (½%).)

JV: Were there other considerations other than a basketball court? (Yes, many ideas have been considered; philanthropic support is making the court possible.) JV: Questions about potential or future water elements or features.

MS: Questions regarding the thickness of the canopy (AA: Approximately 15" at the edge, thicker towards the center.)

RM: Questions regarding lighting.

JF: Appreciates the curved roof form; references other round and curved structures in Hemisfair.

**OVERALL COMMENTS:**

## Hemisfair Sports Court Pavilion

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During numerous public meetings, focus groups and surveys, the citizens of San Antonio have expressed the need for community recreation in the planned Tower Park at Hemisfair. Therefore, through philanthropic support, we propose to construct a covered sports court where the pond is now. The pond, built in 1988 for the benefit of the Tower of the Americas operations, has a negative impact in the area for its unpleasant odor.

The proposed Sports Court is a covered basketball court with a simple but elegant design that takes its precedent from World Fair pavilions such as the IBM Pavilion from the 1968 World's Fair. The slender columns don't interrupt the views of the park, and the modified oval roof structure takes its precedent from the HemisFair '68 site plan. The inspiration for the resulting shape comes from the original Fair planning composition of circles and rectangles. Those elements consisted of the HemisFair Arena, the Tower of the Americas, the US Pavilion, and the Coca Cola Pavilion in the round category; and the Texas Pavilion and the Convention Center being large parallelogram objects at the opposite corners of the district.

The court will be a concrete slab 106'X 62' and striped as a 94' X 50' basketball court but able to be used as a multipurpose event space. The roof elevation will be at approximately 28 feet above the floor, with a flat soffit below the secondary beams. The roof slopes from the center, out to the perimeter at a 2% slope, and the metal covered fascia is two feet deep, giving the effect of a slender flat roof. The roof structure is generally oval in shape, supported by eight round steel columns supported by deep concrete piers. The roof overhangs the floor slab by ten feet at the midpoints of the sides and ends, providing shade for onlookers. The roof structure and piers are independent from the floor slab so that they can move separately.

At the east end of the court will be a metal covered plinth ten feet high which will house the electrical panel that will control the court's lighting and convenience outlets. There will also be a water fountain with multiple levels for ADA and pets.

Lighting for the pavilion will be mounted in several locations – up lights from the eight columns at floor level, up lights from the structure over the court, and downlights mounted to the inside of the major support beams.

The basketball backboard and rim will be mounted to the structure above and will be retractable with motorized controls.

In addition to sports activities, the public will be able to reserve the pavilion for a multitude of events.

Because this project is fully funded through philanthropic contributions, the plan is to start construction as soon as permitting is complete.





# HEMISFAIR SPORTS COURT PAVILION.

## DESIGN DEVELOPMENT/BIDDING SET

Hemisfair Park, 434 S Alamo St.  
San Antonio, Texas. 78205

### SHEET INDEX

#### - GENERAL INFORMATION

- G0.01 COVER SHEET DRAWING INDEX
- A0.10 VICINITY & LOCATIONS
- A0.11 OVERALL SITE PLAN

#### - CIVIL

- C0.10 GENERAL CONSTRUCTION NOTES
- C0.20 STORM WATER POLLUTION PREVENTION PLAN
- C0.30 STORM WATER POLLUTION PREVENTION DETAILS
- C0.40 EXISTING CONDITIONS AND DEMOLITION PLAN
- C1.00 DIMENSIONAL CONTROL PLAN
- C2.00 GRADING PLAN
- C3.00 UTILITY PLAN
- C3.10 UTILITY DETAILS

#### - ARCHITECTURE

- A0.11 OVERALL SITE PLAN
- A1.01 FLOOR PLAN
- A1.02 ROOF PLAN
- A1.10 RCP
- A1.20 FINISH PLAN
- A2.01 ELEVATIONS
- A3.01 SECTIONS
- A6.10 FINISH SCHEDULE
- A7.01 DETAILS

#### - STRUCTURAL

- S0.00 NOTES
- S0.01 NOTES
- S0.02 ROOF CONECTIONS AND DESIGN LOAD PLANS
- S1.00 DIMENSION CONTROL PLAN
- S1.01 FOUNDATION PLAN
- S1.10 ROOF PLAN
- S5.00 FOUNDATION DETAILS
- S5.10 STEEL FRAMING DETAILS

#### - ELECTRICAL

- E0.00 ELECTRICAL SYMBOLS AND ABBREVIATIONS
- E0.01 ELECTRICAL SITE PLAN
- E1.00 ELECTRICAL FLOOR PLAN
- E4.01 ELECTRICAL ONE LINE DIAGRAM
- E6.01 ELECTRICAL DETAILS

### CONTACT LIST

#### OWNER / DEVELOPER

##### HEMISFAIR PARK

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SAN ANTONIO, TX 78205  
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i.aliaga@gvi.archi

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#### CIVIL

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SAN ANTONIO, TX 78213  
ABelton@pape-dawson.com

#### ELECTRICAL ENGINEER

##### CLEARY ZIMMERMANN

AARON LOVELOCK  
210.447.6100  
AaronL@clearyzimmermann.com

#### LIGHTING CONSULTANT

##### ARTENLUZ

JAVIER TEN  
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ARCOS VTA, GUADALAJARA,  
JALISCO, MEXICO.  
+52 (33) 3616-0630  
jten@artenluz.com

#### GENERAL CONTRACTOR

##### TRECO ENTERPRISES INC.

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SAN ANTONIO, TX 78230  
210.377.3131  
etrevino.jr@treco.tx.com

NOT FOR  
CONSTRUCTION

**GVI** GOMEZ VAZQUEZ  
INTERNATIONAL

ARCHITECTURE | PLANNING | URBAN DESIGN

210-404-9658 www.gvi.archi

#### ISSUED SETS

Date	Description

#### REVISIONS

No.	Date	Description
01	05/01/2023	BIDDING SET

Hemisfair Sports  
Court Pavilion  
Hemisfair  
San Antonio, TX. 78205

PROFESSIONAL SEAL

FOR  
COORDINATION  
ONLY

SHEET NAME

COVER SHEET

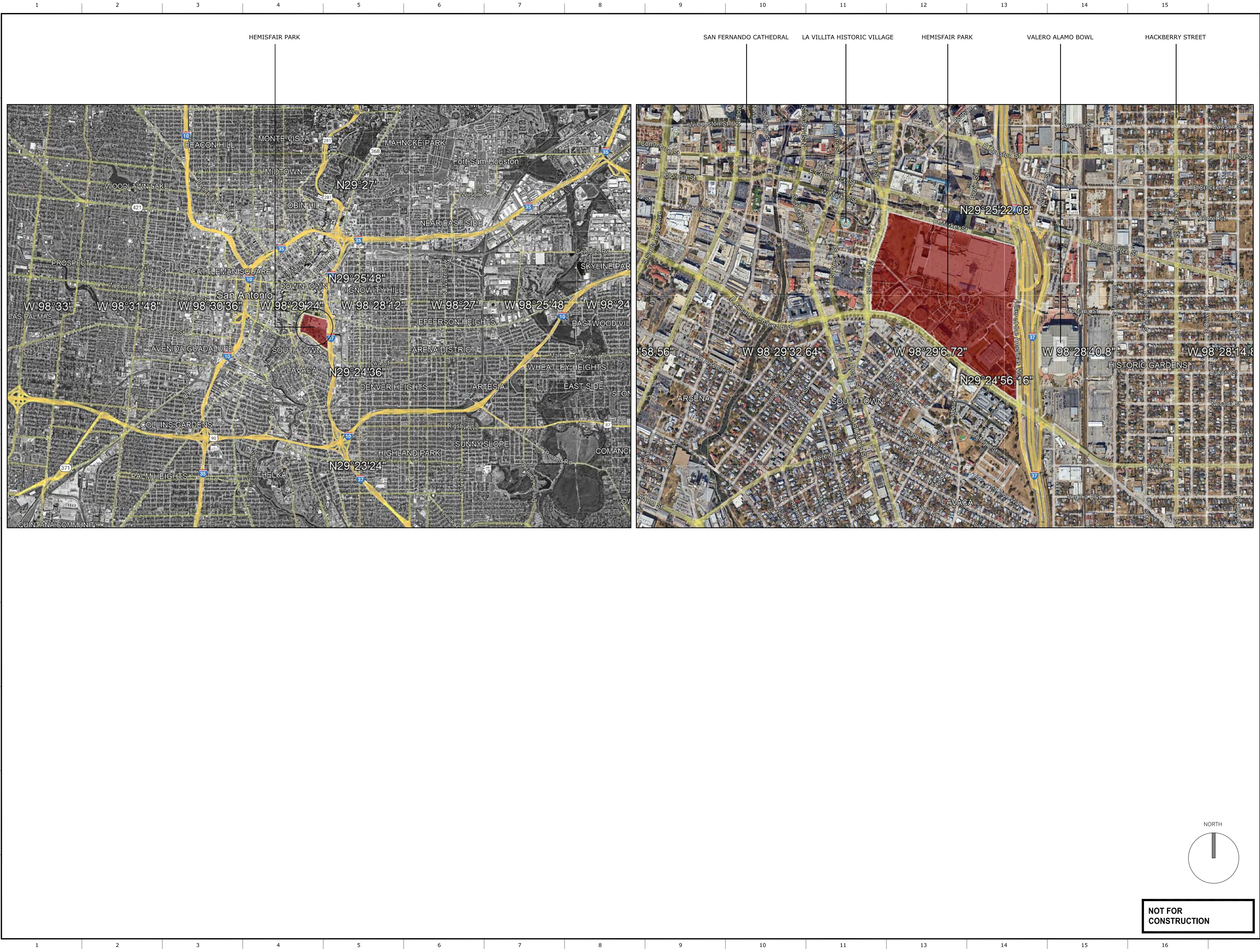
Draftsman	Phase	DESIGN DEVELOPMENT
GVI Approval	Project No.	22118
Client Approval	File	
Date	Code	
05 / 01 / 2023		

SCALE

SHEET NUMBER

G001







## DEMOLITION NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS/APPROVALS BEFORE BEGINNING DEMOLITION.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING FROM THE SITE ALL ITEMS SHOWN TO BE DEMOLISHED UNLESS OTHERWISE INDICATED. ALL MATERIALS SHALL BE DEMOLISHED AND REMOVED FROM SITE IN ACCORDANCE WITH ALL APPLICABLE, FEDERAL, STATE AND LOCAL REGULATIONS.
3. ALL EXISTING ITEMS NOT SPECIFICALLY NOTED TO BE DEMOLISHED SHALL REMAIN. CONTRACTOR IS RESPONSIBLE FOR REPLACING EXISTING ITEMS REMOVED DURING DEMOLITION THAT WERE TO REMAIN.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL UTILITY COMPANIES REGARDING REMOVAL OF EXISTING SERVICES, POWER POLES TO BE REMOVED, VERIFYING UTILITIES ARE SHUT OFF OR DISCONNECTED, AND THAT IT IS POSSIBLE SAFETY PRECAUTIONS HAVE BEEN ENACTED TO ENSURE THE SAFEST ENVIRONMENT FOR ALL PERSONNEL.
5. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO THE CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, THROUGHOUT ALL PHASES OF CONSTRUCTION.
6. ALL NECESSARY EROSION CONTROL MEASURES ARE TO BE IN PLACE PRIOR TO CONSTRUCTION. EROSION CONTROL MEASURES ARE TO BE MAINTAINED AND IN WORKING CONDITION AT ALL TIMES.
7. CONTRACTOR SHALL CONFIRM WITH THE OWNER OR HIS DESIGNATED REPRESENTATIVE TO SALVAGE AND MAKE ARRANGEMENTS TO STORE OR TRANSPORTABLE TREES PRIOR TO REMOVAL.
8. FOR TREES SHOWN TO REMAIN, THE CONTRACTOR SHALL INSTALL TREE PROTECTION THAT EXIST ON THIS SITE PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT REMOVE OR DAMAGE ANY TREES WITHOUT A PERMIT TO DO SO.
9. NO PARKING AND/OR STORAGE SHALL BE ALLOWED WITHIN THE DRIP LINE OF THE TREES TO REMAIN.
10. THE CONTRACTOR SHALL SAW CUT EXISTING PAVEMENT, CURBS AND SIDEWALKS AT NEW PAVEMENT, CURB AND SIDEWALK JUNCTURES, NO JAGGED OR IRREGULAR CUTS WILL BE ACCEPTED.
11. THE CONTRACTOR SHALL PROTECT ALL PROPERTY PINS, BENCH MARKS, CONSTRUCTION STAKES, HUBS, OR OTHER KEY CONTROL POINTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO RE-ESTABLISH ANY SUCH POINTS AT THEIR OWN EXPENSE.
12. DEMOLITION CONTRACTOR IS RESPONSIBLE FOR CLEARING THE SITE OF ALL OBSTACLES THAT EXIST ON THIS SITE PRIOR TO THE START OF CONSTRUCTION OR DURING THE CONSTRUCTION SO AS TO NOT IMPEDE THE BUILDING CONSTRUCTION CONTRACTOR.
13. CONTRACTOR SHALL COORDINATE WITH THE OWNER TO IDENTIFY ANY MATERIAL OR EQUIPMENT SCHEDULED FOR REMOVAL TO BE SALVAGED AND REUSED. CONTRACTOR SHALL REPLACE AT HIS EXPENSE ANY DESTROYED MATERIAL OR EQUIPMENT THAT WAS MARKED FOR SALVAGE.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL HAZARDOUS MATERIALS. CONTRACTOR SHALL FOLLOW ALL APPLICABLE DISPOSABLE REGULATIONS. ON SITE CONCRETE PROPOSED FOR DEMOLITION MAY BE REMOVED ON SITE AS FILL AS LONG AS IT IS CRUSHED, FREE OF REBAR, WIRE MESH AND DEBRIS AND CAN MEET GEOTECHNICAL SPECIFICATIONS.
15. CONTRACTOR SHALL REMOVE ALL EXISTING IRRIGATION PIPING ON SITE UNLESS SHOWN OTHERWISE. CUT AND CAP LATERALS AT PROJECT LIMITS TO ALLOW PROPER FUNCTION OF ZONES INTENDED TO REMAIN OR EXTEND OFF-SITE.
16. CONTRACTOR SHALL NOT DEMOLISH ANY PUBLIC WATER OR SANITARY SEWER LINES WITHOUT APPROVAL. EXISTING WATER AND SANITARY SEWER SERVICES SHALL REMAIN OPERATIONAL UNTIL NEW SERVICE IS COMPLETE. CONTRACTOR SHALL NOT DEMOLISH ANY SANITARY SEWER AND WATER SERVICES AT THE EXISTING MAN. NO ABANDONED SERVICES SHALL REMAIN CONNECTED TO THE PUBLIC MAIN.
17. THE USE OF EXPLOSIVES WILL NOT BE PERMITTED.
18. ALL WASTE MATERIAL REMAINING AFTER OWNER SALVAGE IS COMPLETE AND RESULTING FROM DEMOLITION OPERATIONS BECOMES THE PROPERTY OF THE CONTRACTOR. APPROPRIATE DISPOSAL OF WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT HIS OWN EXPENSE. OWNER WILL PROVIDE LIST OF ITEMS TO BE SALVAGED.
19. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER.
20. THE CONTRACTOR SHALL MEET ALL LOCAL, STATE, AND FEDERAL REGULATIONS FOR DUST CONTROL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS REMOVED FROM THE SITE AT HIS OWN ADJOINING PROPERTIES.

## DIMENSIONAL CONTROL NOTES

1. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT OR LIMITS OF DIMENSIONS NECESSARY FOR CONSTRUCTION OF THE PROJECT.
2. THE CONTRACTOR SHALL PRESERVE ALL CONTROL POINTS, PROPERTY PINS, BENCH MARKS, HUBS OR OTHER KEY CONTROL POINTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH AND MAINTAIN SUCH POINTS AT THEIR OWN EXPENSE IN THE EVENT THEY ARE REMOVED.
3. DIMENSIONAL CONTROL FOR ANY STRUCTURE IS BASED ON INFORMATION PROVIDED BY THE ARCHITECT OR STRUCTURAL ENGINEER. THE CONTRACTOR SHALL VERIFY ALL PROJECT DIMENSIONS WITH THE PROJECT DRAWINGS PRIOR TO CONSTRUCTION AND TO COMMUNICATE TO THE ENGINEER OF ANY DISCREPANCIES.
4. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL USE THE TRAVERSE CONTROL POINTS FOR HORIZONTAL CONTROL POINTS. IF TRAVERSE CONTROL POINTS ARE NOT PROVIDED, THE CONTRACTOR MAY USE PROPERTY CORNER PINS, BENCHMARKS, ARE NOT TO BE USED FOR HORIZONTAL CONTROL.
5. COORDINATES FOR HORIZONTAL CONTROL POINTS ARE BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE, AND 83(96) DISPLAYED IN SURFACE VALUES USING A SURFACE ADJUSTMENT FACTOR FOR EACH COUNTY. (THE SURFACE ADJUSTMENT FACTOR FOR EACH COUNTY IS 1.00077. OTHER COUNTIES WILL HAVE A DIFFERENT FACTOR; CHECK WITH THE SURVEYOR TO OBTAIN THE CORRECT SURFACE ADJUSTMENT FACTOR FOR PROJECTS LOCATED OUTSIDE OF BEXAR COUNTY.)
6. BENCHMARK ELEVATIONS ARE BASED ON NAVD 88, GEOID 03.
7. ALL DIMENSIONAL CONTROL POINTS OR DIMENSIONS ARE TO THE FACE OF CURB, FACE OF RETAINING WALL AT THE BOTTOM TOE OF SLOPE, AND CENTER OF PAINT STRIPPING. ALL DIMENSIONS ARE PERPENDICULAR TO THE POINT OF REFERENCE.
8. CURB RADI ARE 3' UNLESS OTHERWISE NOTED ON THE DRAWINGS.
9. REFER TO THE ARCHITECTURAL, STRUCTURAL, AND LANDSCAPE PLANS AS APPLICABLE FOR ADDITIONAL DIMENSIONAL CONTROL INFORMATION.
10. THE CONTRACTOR SHALL RELY ON THE INFORMATION PROVIDED ON THE SIGNED AND SEALED CONSTRUCTION DRAWINGS, SUBJECT TO A SIGNED AND SEALED CAD FILES MAY BE OBTAINED FROM THE ENGINEER FOR THE CONVENIENCE AND USE OF THE CONTRACTOR.

## GRADING NOTES

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK WHERE NOT SPECIFICALLY COVERED IN THE SPECIFICATIONS, OR REPORT SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CITY, COUNTY, AND TxDOT STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION).
2. SITE PREPARATION, GRADING, EXCAVATION AND FILL SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT AND SPECIFICATIONS.
3. ALL SELECT FILL MATERIAL PROVIDED SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING AND COMPACTING.
4. ALL ELEVATIONS AND PROPOSED CONTOURS SHOWN ON THIS GRADING PLAN REFLECT FINISHED GRADES. THE THICKNESS OF PAVING, BASE, GRASS, TOPSOIL, AND MULCH MUST BE SUBTRACTED TO OBTAIN SUBGRADE ELEVATIONS.
5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THE PROJECT.
6. THE CONTRACTOR SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE COMMENCEMENT OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
8. THE CONTRACTOR SHALL REMOVE TOP SOIL, GRASS, ROOTS, DEBRIS, ETC. AND DISPOSE OFF SITE THOSE MATERIALS NOT SUITABLE FOR EMBANKMENT. ALL CLEAR STRIPPINGS AND TOPSOIL MAY BE STOCKPILED ON SITE FOR REUSE IN A LOCATION SPECIFIED BY THE OWNER.
9. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE STABILIZATION, AND DISTURBED AREAS SHALL BE REVEGETATED IN ACCORDANCE WITH PROJECT SPECIFICATIONS AND TPDES/SWPPP REQUIREMENTS. REFERENCE TO LANDSCAPE ARCHITECT'S PLAN, IF APPLICABLE.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS (EROSION CONTROL MEASURES) TO KEEP DRAINAGE AND SILT FROM WASHING ONTO ADJACENT PROPERTY, STREETS, OR DRAINAGE WAYS. CONTRACTOR SHALL IMMEDIATELY REMOVE SILT/DEBRIS WHICH WASHES OFFSITE OR INTO EXISTING STORM DRAIN SYSTEMS. (SEE SWPPP PLANS & TPDES BOOK).
11. THE CONTRACTOR SHALL OBTAIN GRADES SHOWN HEREON WITHIN +/- ONE-TENTH (0.10) FOOT.
12. IN PROPOSED PAVING AREAS, IT IS INTENDED THAT THE MINIMUM GRADE BE 1% ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 AND A MINIMUM OF 2:0.5 UNLESS OTHERWISE SHOWN.
13. ACCESSIBILITY: SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% SIDEWALK LONGITUDINAL SLOPE ALONG ACCESSIBLE ROUTES SHALL NOT EXCEED .5% UNLESS OTHERWISE NOTED. SIDEWALK CURB RAMPS SHALL NOT EXCEED 8.33% (SEE CURB RAMP DETAILS). CURB RAMP LANDINGS SHALL NOT EXCEED 2% ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 2% IN ANY DIRECTION
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER, CONDITION ANY DAMAGE DONE TO EXISTING TREES, BUILDING UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS (NO SEPARATE PAID ITEMS).
15. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN WORKING NEAR UTILITIES, GAS LINES, SEWER, OR EXISTING APPEARANCES. PRIOR TO ANY FOUNDATION OR EXCAVATION, CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES AND ENSURE UTILITIES HAVE BEEN ADEQUATELY LOCATED AND IDENTIFIED. THE ENGINEER SHALL BE NOTIFIED IF ANY UTILITY CONFLICT IS DISCOVERED.
16. POSITIVE DRAINAGE SHALL BE MAINTAINED THROUGHOUT THE SCOPE OF THE PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.
17. FOR FILL PLACEMENT ON HILL SIDES OR STEEP SLOPE AREAS, THE CONTRACTOR SHALL REFERENCE THE PROJECT SPECIFICATIONS AND GEOTECHNICAL REPORT FOR SPECIAL INSTRUCTIONS REGARDING BENCHING.
18. NO WORK SHALL BE PERFORMED IN A PUBLIC RIGHT-OF-WAY WITHOUT A PERMIT.

## SITE UTILITY NOTES

- THE CONTRACTOR WILL BE RESPONSIBLE FOR DETERMINING EXIST LOCATIONS OF ALL UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLAN OR NOT. PRIOR TO BEGINNING CONSTRUCTION, ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR, AT HIS EXPENSE.
- DRAWINGS DO NOT SHOW ALL EXISTING UTILITIES. ALL EXISTING UTILITY SHALL BE VERIFIED IN THE FIELD WHETHER SHOWN ON THIS PLAN OR NO (PRIOR TO INSTALLATION OF ANY NEW LINES).
- ALL FILL MATERIAL IS TO BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES
- CONTRACTOR SHALL CALL FOR THE LOCAL JURISDICTIONAL INSPECTION AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL JURISDICTION WITH REGARDS TO MATERIALS AND INSTALLATION OF THE UTILITIES AND STORM DRAINS.
- CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS, SPECIFICATIONS AND ALL TESTING.
- THE MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL COMPLY WITH THE FOLLOWING AS APPLICABLE:
  - A. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATION FOR CONSTRUCTION"
  - B. CURRENT "SAN ANTONIO WATER SYSTEM UTILITY SERVICE REGULATIONS"
  - C. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION"
  - D. CURRENT "AUSTIN STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND DRAINAGE"
  - E. CURRENT CITY OF SAN ANTONIO "RIGHT-OF-WAY ORDINANCE AND CRITERIA MANUAL"
- MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH AT 3000 P.S.I.
- CONTRACTOR SHALL PROTECT ALL EXISTING TREES, FENCES, PAVING, UTILITIES, AND OTHER STRUCTURES SCHEDULED TO REMAIN. ANY STRUCTURE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
- THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH ALL FINAL UTILITY AS-BUILT MEASUREMENTS, TOPS AND LENGTH OF SERVICE CONNECTIONS TO THE PROJECT.
- ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT HIS SOLE EXPENSE.
- GAS AND ELECTRIC ALIGNMENTS SHOWN ON THIS DRAWING ARE CONCEPTUAL. THE ACTUAL DESIGN AND LOCATIONS SHALL BE DETERMINED BY THE LOCAL SERVICE PROVIDER OR MEP ENGINEER.
- CONTRACTOR SHALL COORDINATE TELE. COMMUNICATIONS, CABLE, ELECTRIC AND GAS LINE INSTALLATION WITH LOCAL SERVICE PROVIDER. THE SERVICE PROVIDER SHALL BE RESPONSIBLE FOR INSTALLATION OF GAS LINE TO WITHIN 5' OF BUILDING.
- REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES.
- SEE IRRIGATION, LIGHTING AND ARCHITECTURAL PLANS FOR ADDITIONAL CONDUIT LOCATIONS AS APPLICABLE. VERIFY ALL CONDUIT AND SLEEVE LOCATIONS PRIOR TO PLACING ANY PAVEMENT.
- CONTRACTOR SHALL INSTALL ALL CONDUITS WITH A MINIMUM 4-FOOT SWEEP. ALL UTILITIES SHALL HAVE A PULL STRING TO BE INSTALLED BY THE CONTRACTOR.
- NO WORK SHALL BE ALLOWED WITHIN THE PUBLIC RIGHT-OF-WAY WITHOUT AN APPROVED PERMIT.
- THE CONSTRUCTION OF UNDERGROUND PRIMARY ELECTRIC AND GAS DISTRIBUTION SYSTEMS SHALL BE COVERED BY THE ENGINEERING CONSTRUCTION PLANS PREPARED BY THE LOCAL SERVICE PROVIDER. THIS DRAWING SHALL SERVE ONLY AS REFERENCE DOCUMENT TO COORDINATE LOCAL UTILITIES TO UNDERGROUND PRIMARY ELECTRIC AND GAS DISTRIBUTION SYSTEM. THE LOCAL SERVICE PROVIDER'S CONSTRUCTION DRAWINGS AND CONSTRUCTION DETAILS SHALL GOVERN.
- CONTRACTOR SHALL INCLUDE IN HIS BID A 4" PVC CONDUIT FOR TELEPHONE AND A 2" PVC CONDUIT FOR CABLE TV TO BE IN THE SAME TRENCH AND UNDERGROUND ELECTRICAL LINES. CONTRACTOR SHALL VERIFY WITH ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION ON NUMBER AND SIZE OF CONDUITS NEEDED FOR UTILITY SERVICE TO ALL BUILDINGS.
- BEDDING FOR ALL UTILITIES SHALL BE PER THE PROJECT SPECIFICATIONS. WATER SETTING OF BACKFILL MATERIAL WILL BE ALLOWED.

## DRAINAGE NOTES

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THIS SCOPE OF WORK SHALL COMPLY WITH THE PROJECT GEOTECH REPORT, THE PROJECT SPECIFICATIONS, AND THE CURRENT CITY, COUNTY OR TxDOT.
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES. IF THE CONTRACTOR SHOULD EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING UTILITIES AND SHOULD THEY BE DAMAGED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR WILL BE REQUIRED TO REPAIR OR REPLACE THE DAMAGED FACILITIES AT CONTRACTOR'S EXPENSE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ORIGINAL OR BETTER CONDITION DAMAGE DONE TO EXISTING FENCES, CURBS, STREET DRIVEWAYS, LANDSCAPING AND STRUCTURES.
4. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL WASTE MATERIAL UPON PROJECT COMPLETION.
5. WATER JETTING THE BACKFILL OF STORM DRAIN TRENCHES WILL NOT BE PERMITTED.
6. NORTHINGS AND EASTINGS LISTED ON THESE PLANS ARE TO CENTER OF BOX FOR JUNCTION BOXES AND GRATE INLETS AND TO OUTSIDE CORNER FACE OF CURB FOR ALL CURB AND COMBINATION INLETS. ALL LENGTHS OF PIPE ARE TO INSIDE FACE OF STRUCTURES.
7. CONTRACTOR SHALL ENSURE PROPER SIZE OF JUNCTION BOXES NEAR WHERE INDICATED ON PLAN. CONTRACTOR SHALL CONNECT STORM DRAIN PIPE TO JUNCTION BOXES PER MANUFACTURERS SPECIFICATIONS.
8. ALL STORM DRAIN TO JUNCTION BOX CONNECTIONS SHALL HAVE CONCRETE COLLARS.
9. ALL GRATE INLETS MUST BE HS20 EQUIVALENT RATED GRATES.
10. TOPS OF MANHOLES, JUNCTION BOXES AND GRATES SHALL BE SET FLUSH TO FINISHED SURFACE BASED UPON GRADING PLAN.
11. CONTRACTOR SHALL GROUT INVERTS OF ALL STORM DRAIN INLETS, JUNCTION BOXES, AND DROP STRUCTURES TO DRAIN.

## CAUTION UNDERGROUND UTILITIES

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON THE CONTRACTOR'S OWN FIELD SURVEY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL BE REQUIRED TO LOCATE AND VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES, INCLUDING WATER, SEWER, TELEPHONE, AND FIBER OPTIC LINE, SPLITTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUK, BUNKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. THE CONTRACTOR MUST CONTACT THE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION AND/OR START OF CONSTRUCTION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL NECESSARY PERMITS (WHETHER SHOWN ON PLANS OR NOT) WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. ANY UTILITY CONFLICTS THAT ARISE DURING THE CONSTRUCTION OF THE PROJECT ARE THE CONTRACTOR'S RESPONSIBILITY. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT THE CONTRACTOR'S SOLE EXPENSE. WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

## CAUTION OVERHEAD UTILITIES

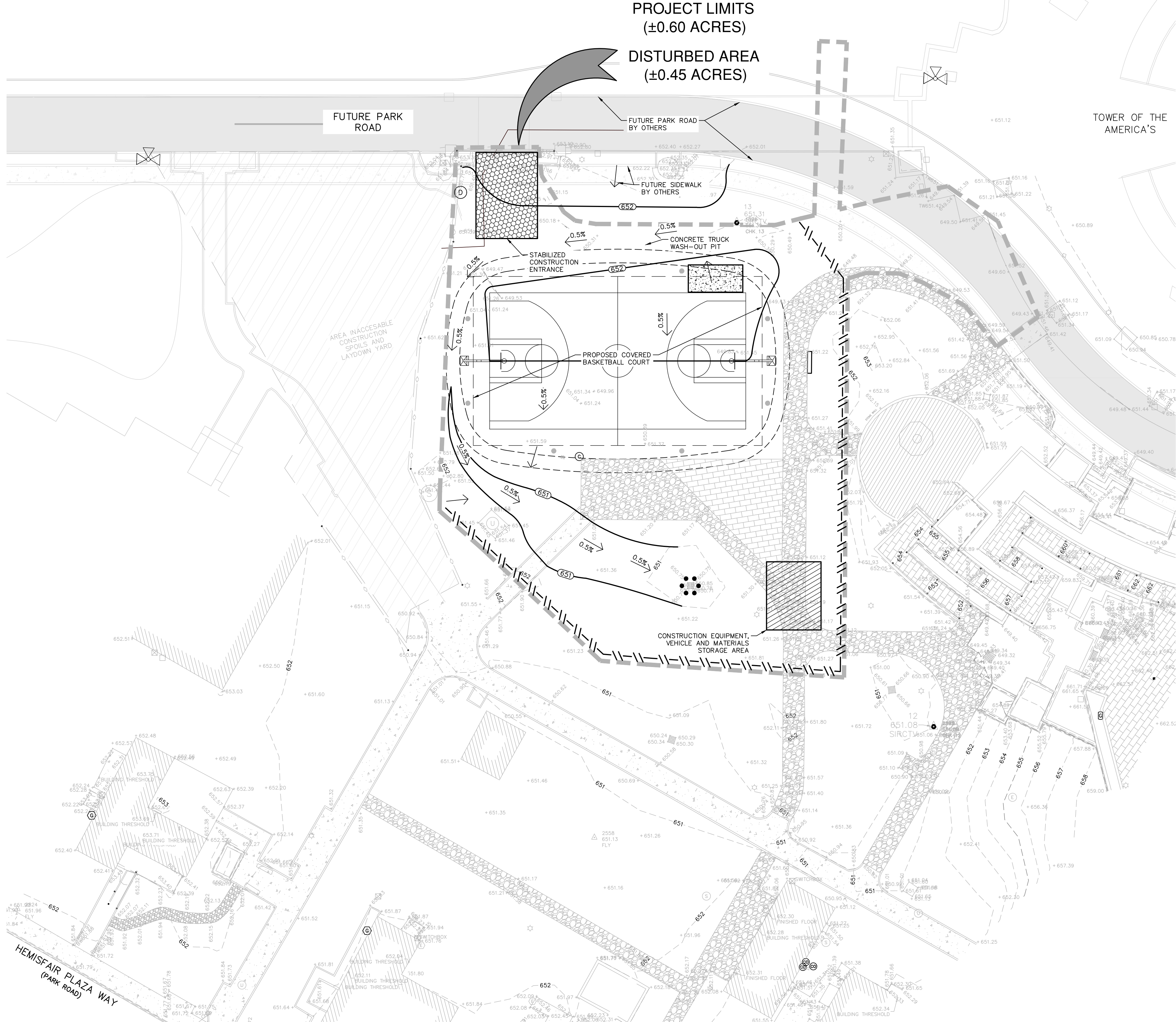
CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING UNDER "HIGH VOLTAGE TRANSMISSION LINES". A WORKING HEIGHT OF 30' FROM GROUND ELEVATION WILL BE OBSERVED WHEN WORKING UNDER THE HIGH VOLTAGE LINE. COORDINATE ALL WORK WITH THE LOCAL UTILITY PROVIDER.

## TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE C  
STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF AN  
AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK ARE  
ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTIO  
SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED  
CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SHALL BE IN ACCORD  
SYSTEMS, PROGRAMS AND /OR PROCEDURES SHALL PROVIDE FOR ADEQUATE  
TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM A  
AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY  
CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE  
WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES  
OF WORKERS IN TRENCHES.



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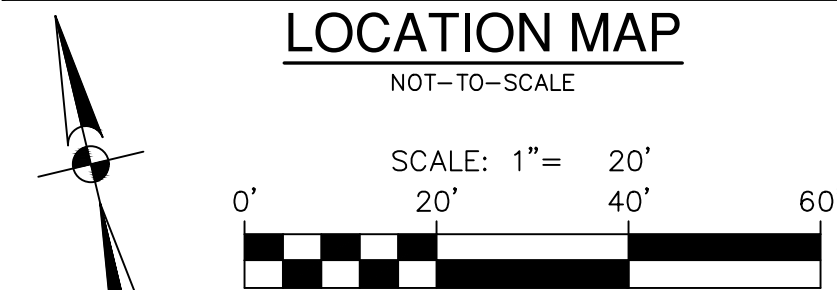
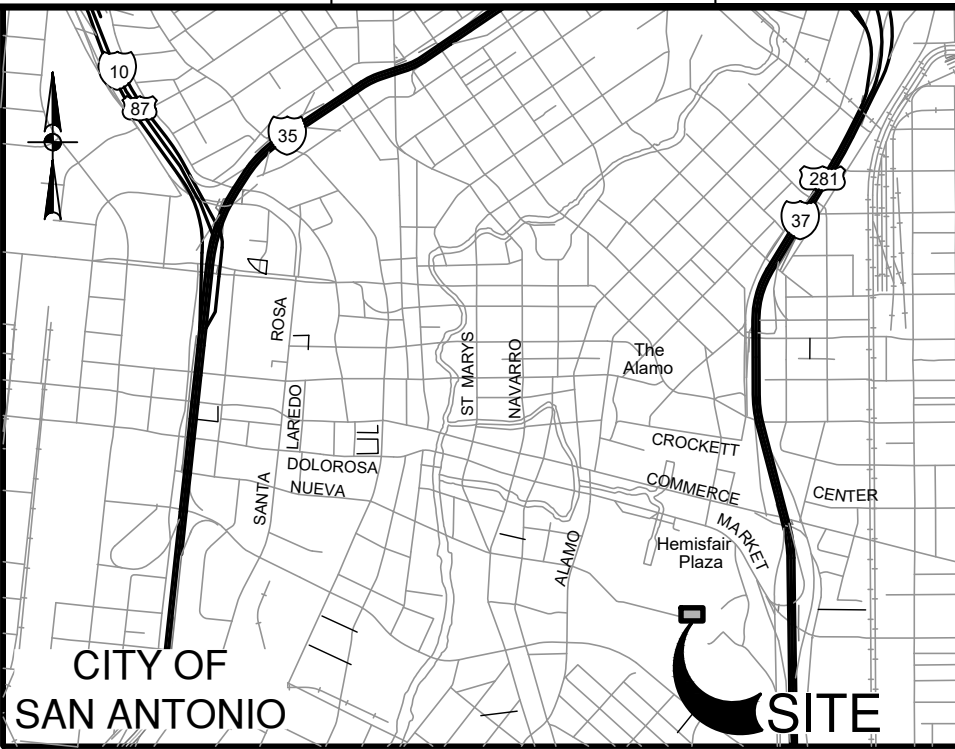


SWP3 MODIFICATIONS		
DATE	SIGNATURE	DESCRIPTION

ADDRESS  
600 HEMISFAIR PLAZA WAY  
SAN ANTONIO, TX 78214

LEGAL DESCRIPTION  
LOT 12 & 903  
BLOCK 3  
N.C.B. 13814

PLAT  
160546



LEGEND	
	PROJECT LIMITS (0.44 AC)
	EXISTING CONTOUR
	PROPOSED CONTOUR
	FLOW ARROW (EXISTING)
	FLOW ARROW (PROPOSED)
	SILT FENCE
	GRATE INLET PROTECTION
	STABILIZED CONSTRUCTION ENTRANCE/EXIT (FIELD LOCATE)
	CONSTRUCTION EQUIPMENT, VEHICLE & MATERIALS STORAGE AREA (FIELD LOCATE)
	CONCRETE TRUCK WASH-OUT PIT (FIELD LOCATE)

### GENERAL NOTES

- DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
- CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASH-OUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
- STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
- RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
- ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
- FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION PLANS, REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
- STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
- AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT (VOL. 9, PG 285) AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
- BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADE AREAS.
- BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATERSHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.
- UPON COMPLETION OF THE PROJECT, INCLUDING SITE STABILIZATION, AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
- WHERE VEGETATED FILTER STRIPS ARE INDICATED, CONTRACTOR SHALL VERIFY THAT SUFFICIENT VEGETATION EXISTS. OTHERWISE CONTRACTOR SHALL PLACE SILT FENCING IN LIEU OF VEGETATED FILTER STRIP.
- SHADED AREA DENOTES LIMITS OF DISTURBED AREAS. OTHER AREAS WITHIN THE PROJECT LIMITS, WITH THE EXCEPTION OF A CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD, ARE NOT A PART OF THIS TPDES STORM WATER POLLUTION PREVENTION PLAN (SWP3) AND WILL NOT BE DISTURBED BY CIVIL CONSTRUCTION ACTIVITIES. HOUSE CONSTRUCTION ACTIVITIES WILL REQUIRE A SEPARATE STORM WATER POLLUTION PREVENTION PLAN.
- PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL COORDINATE PLACEMENT OF TEMPORARY BEST MANAGEMENT PRACTICES WITHIN TxDOT RIGHT-OF-WAY WITH TxDOT.
- CPS ENERGY MAY FUNCTION AS A SECONDARY OPERATOR ON THIS PROJECT AND MAY BE INSTALLING ELECTRIC UTILITIES FOR ON-SITE CONSTRUCTION AND OFF-SITE FEED TO THE PROJECT.

THE ENGINEERING SEAL HAS BEEN AFFIXED TO THIS SHEET ONLY FOR THE PURPOSE OF DEMONSTRATING COMPLIANCE WITH THE TPDES-STORM WATER POLLUTION PREVENTION PLAN (SWP3) REGULATIONS.

THIS SHEET HAS BEEN PREPARED FOR PURPOSES OF THE SWP3 ONLY. ALL OTHER CIVIL ENGINEERING RELATED INFORMATION SHOULD BE ACQUIRED FROM THE APPROPRIATE SHEET IN THE CIVIL IMPROVEMENT PLANS.

### EXHIBIT 2

BID SET

GVI GOMEZ VAZQUEZ INTERNATIONAL

ARCHITECTURE | PLANNING | URBAN DESIGN

210-404-9658 www.gvi.archi

### ISSUED SETS

Date	Description

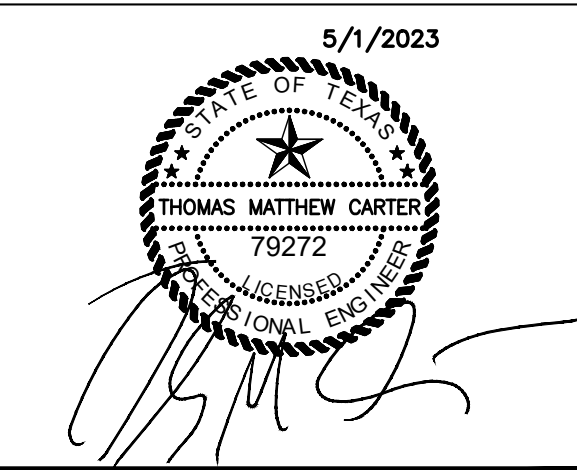
### REVISIONS

No.	Date	Description
01	05/01/2023	BIDDING SET

**PAPE-DAWSON ENGINEERS**

Hemisfair Sports Court Pavilion  
Hemisfair  
San Antonio, TX. 78205

### PROFESSIONAL SEAL



### SHEET NAME

STORM WATER POLLUTION PREVENTION PLAN

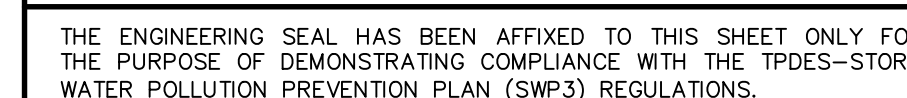
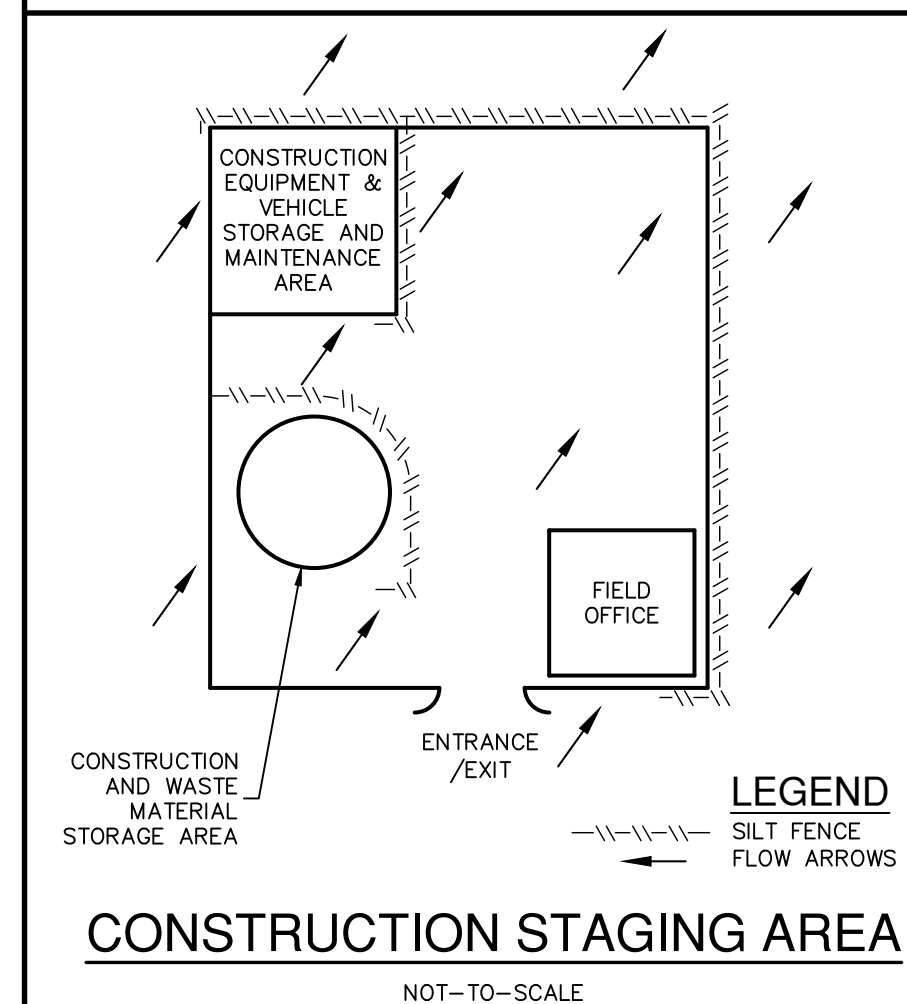
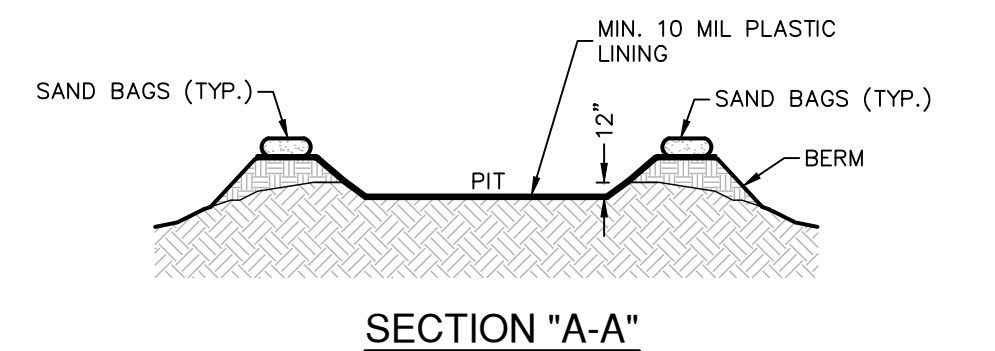
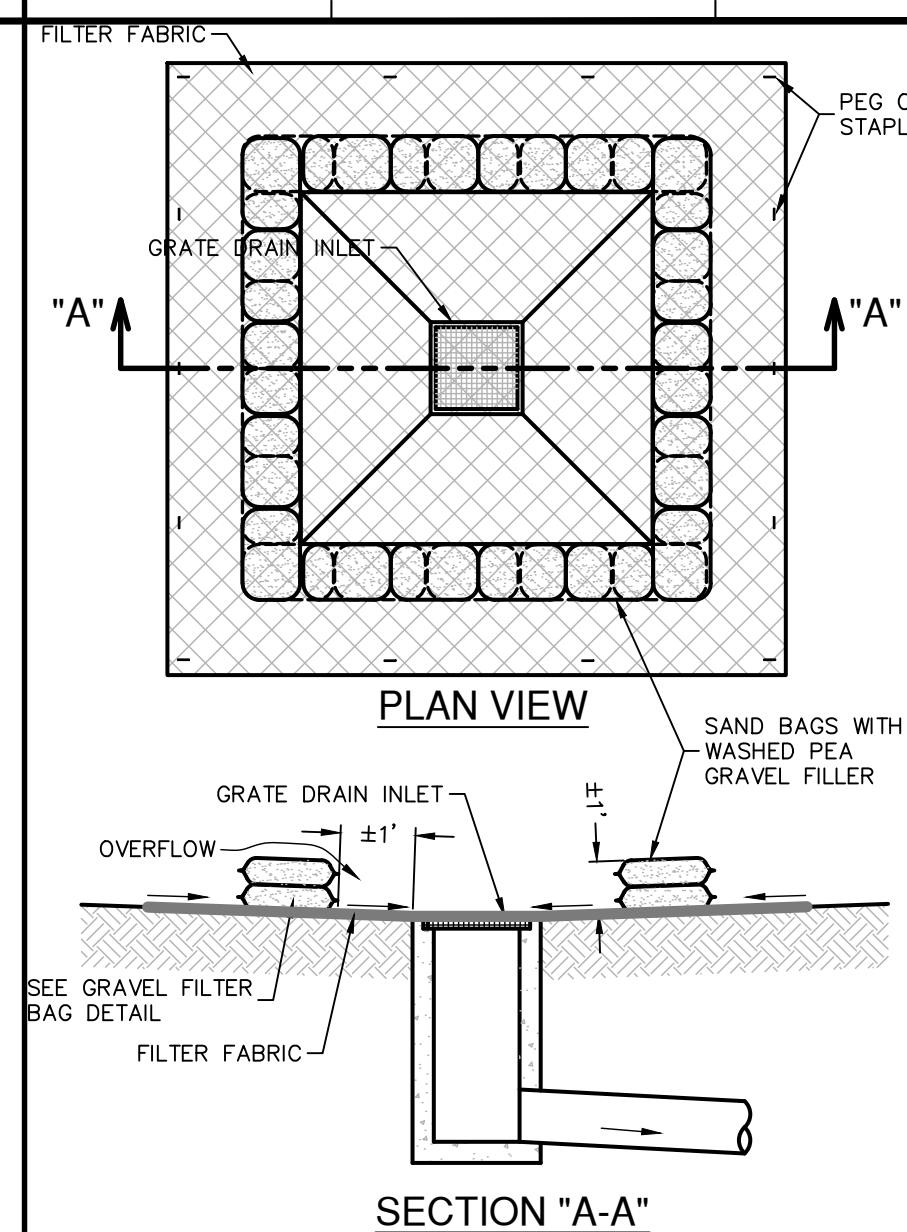
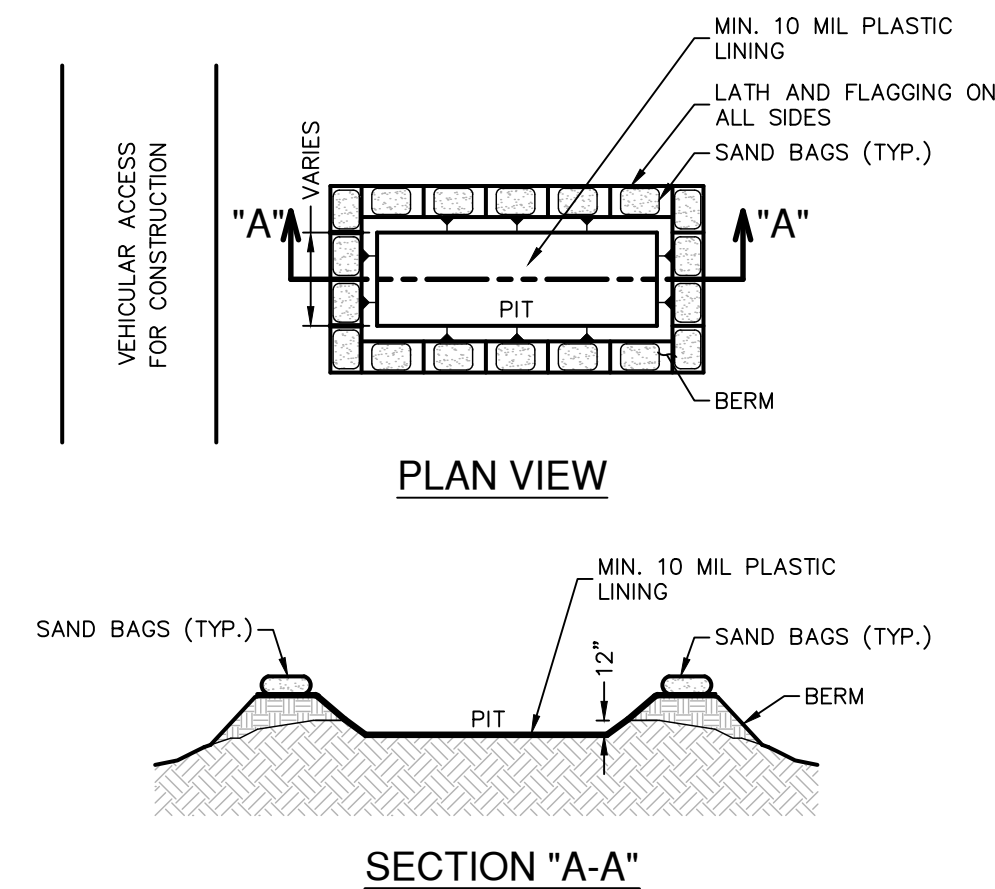
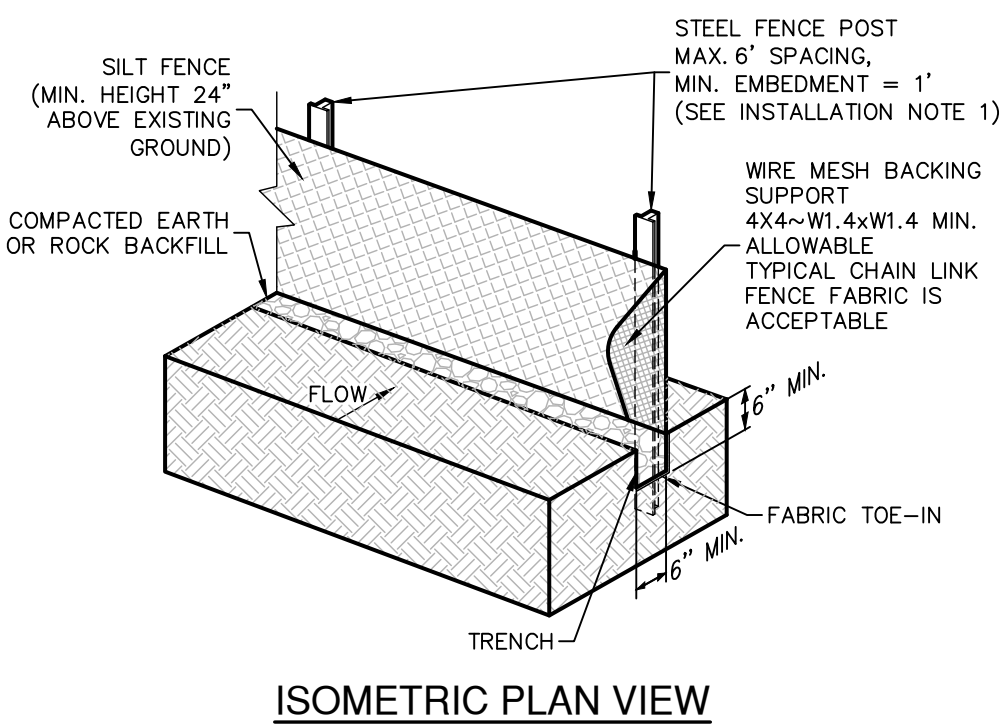
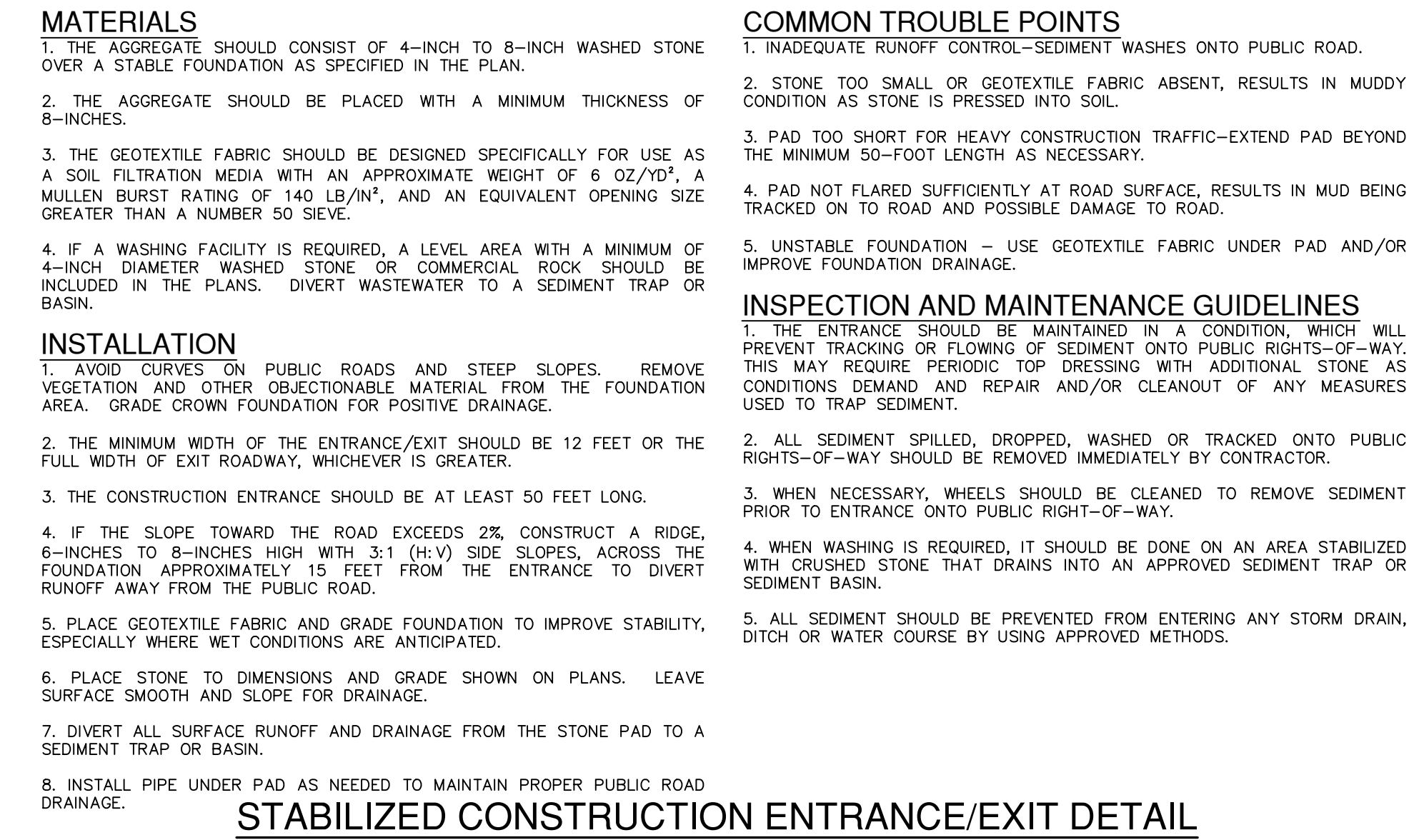
Draftsman	Phase	BIDDING SET
GVI Approval	Project No. 7645-56	
Client Approval	File	
Date	Code	

### SCALE

SHEET NUMBER

C0.20





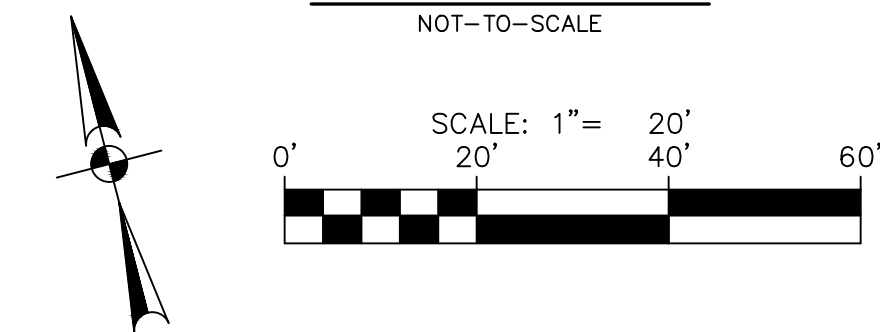


1. A ROOT PROTECTION ZONE WILL BE ESTABLISHED AROUND EACH TREE OR ANY VEGETATION TO BE PRESERVED TO MEET THE LANDSCAPE OR TREE PRESERVATION ORDINANCES. THE ROOT PROTECTION ZONE SHALL BE AN AREA DETERMINED BY THE RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE (1) LINEAR FOOT FOR EACH INCH DIAMETER INCH AT BREAST HEIGHT (4.5') OF THE TREE. A 10-INCH DIAMETER TREE WILL HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE.
2. NO WORK SHALL BEGIN WHERE TREE PROTECTION FENCING HAS NOT BEEN COMPLETED AND APPROVED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION. THE FENCING SHALL BE A MINIMUM OF 4' HEIGHT.
3. ALL ROOTS LARGER THAN ONE-INCH IN DIAMETER SHALL BE CUT CLEANLY AND OAK WOUNDS PAINTED WITHIN 30 MINUTES.
4. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE WORK DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
5. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL BE OPERATED OR STORED WITHIN THE ROOT PROTECTION ZONE. NO CLEAN-OUT AREAS SHALL BE CONSTRUCTED SO THAT THE MATERIAL WILL BE IN OR MIGRATED TO THE ROOT PROTECTION ZONE.
6. NO GRADE CHANGE MORE THAN 3" IS ALLOWED WITHIN THE ROOT PROTECTION ZONE.
7. ROOTS OR BRANCHES IN CONFLICT WITH CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. ALL OAK WOUNDS SHALL BE PAINTED WITHIN 30 MINUTES TO PREVENT OAK WILT INFECTION.
8. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST (207-8053).
9. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED.
10. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE WATERING THE ROOT PROTECTION ZONE AND/OR WASHING FOLIAGE.
11. NO WIRES, NAILS OR OTHER MATERIALS SHALL BE ATTACHED TO PROTECTED TREES.

PLAT  
160546



NOT-TO-SCALE



	PROPERTY LINE
	LOT LINE
	EXISTING CONTOURS
	EXISTING UNDER GROUND ELECTRIC
	EXISTING WATER LINE
	EXISTING FIRE HYDRANT
	EXISTING GAS
	EXISTING CHILLED WATER
	EXISTING UNDERGROUND FIBER OPTICS
	EXISTING SANITARY SEWER
	EXISTING STORM DRAINAGE
	TREE PROTECTION FENCING (REF. LANDSCAPE PLANS FOR DETAILS)
	EXISTING CONCRETE FOUNTAIN AND STRUCTURES TO BE REMOVED
	REMOVE AND REPLACE EXISTING WALKWAY
	EXISTING BRICK PAVER SIDEWALK TO BE REMOVED
	EXISTING FLAGSTONE SIDEWALK TO BE REMOVED
	TREES TO REMAIN
	TREES TO BE REMOVED

1. ALL THE TREES WITH A DIAMETER GREATER THAN 3 INCHES AFFECTED BY CONSTRUCTION SHALL HAVE THE LIMBS AND ROOTS TRIMMED AND PROTECTED ACCORDING TO ITEM NO. 802. TREE PRUNING, SOIL AMENDING AND MULCHING UNLESS SPECIFIED TREES SHALL RECEIVE LEVEL 2 PROTECTION AS PER ITEM NO. 802. TREES TO RECEIVE LEVEL 1 PROTECTION AS PER ITEM NO. 802 ARE SHOWN ON TREE PROTECTION TABLE ON THIS SHEET.
2. ALL TREES SHALL REMAIN UNLESS NOTED ON THE PLANS.
3. NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED AND APPROVED.
4. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.
5. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES IN LENGTH. ROOTS CUTTING NEAR EXISTING TREES DURING EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR.
6. THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS ONE FOOT PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A 10-INCH DIAMETER TREE WOULD HAVE A 5-FOOT ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLANTED ACCORDING TO PROPER PRUNING METHODS. LIVE OAKS WOUNDS SHALL BE PAINTED OVER, WITHIN 20 MINUTES TO PREVENT OAK WILT.
7. ACCESS TO FENCED AREAS WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE ENGINEER OR CITY INSPECTOR.
8. GRADING, IF REQUIRED, SHALL BE LIMITED TO A 3 INCH CUT OR FILL WITHIN THE FENCED ROOT ZONE AREAS.
9. TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND AS DIRECTED BY THE PROJECT MANAGER OR CITY INSPECTOR.
10. TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE ENGINEER'S SATISFACTION.
11. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
12. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST PRIOR TO ITS REMOVAL.

Site plan for the renovation of the Tower of the Americas Plaza. The plan shows the existing pool, walkway, and plaza area. Key features include:

- EXISTING BRIDGE
- PARK WALKWAY
- TOWER OF THE AMERICA'S
- EXISTING FLAGSTONE PAVERS TO REMOVE
- EXISTING FLAGSTONE PAVERS TO REMAIN
- EXISTING CONCRETE FOUNTAIN TO BE REMOVED
- EXISTING BRICK PAVERS TO BE REMOVED
- EXISTING BRICK PAVERS TO REMAIN
- EXISTING POOL SIGN TO BE REMOVED
- EXISTING POOL SIGNS TO BE REMOVED
- EXISTING FLAGSTONE PAVERS TO REMOVE
- EXISTING COMMUNICATIONS MANHOLE TO REMAIN
- EXISTING PLAQUE TO REMAIN
- EXISTING UNDERGROUND ELECTRICAL TO REMAIN
- EXISTING CONCRETE BEAM AND POST WATER FEATURES TO BE REMOVED
- ELECTRICAL TRENCH SEE SHEET C3.00
- WATER SERVICE TRENCH SEE SHEET C3.00
- AREA INACCESSIBLE CONSTRUCTION SPOILS AND LAYDOWN YARD
- HEMISFAIR PLAZA WAY (PARK ROAD)

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www.gvi.archi

Date	Description

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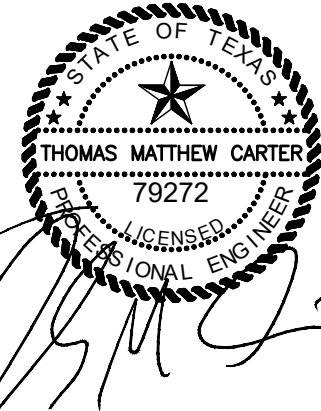
Hemisfair Sports  
Court Pavilion

**PAPE-DAWSON  
ENGINEERS**

Hemisfair  
San Antonio, TX. 78205

This drawing was made specifically for this site and client and does not apply to any other projects.

5/1/2023



## EXISTING CONDITIONS AND DEMOLITION PLAN

Draftsman	ES	Phase	BIDDING SET
GVI Approval		Project No. 7645-56	
Client Approval		File	
Date	MAY 2023	Code	

SCALE

SHEET NUMBER

C0.40



Date	Description

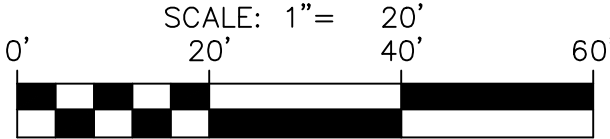
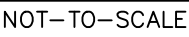
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TEXAS ENGINEERING FIRM #470 | TEXAS SURVEYING FIRM #10028800

Hemisfair  
San Antonio, TX. 78205

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160546



PROPERTY LINE

LIMITS OF CONSTRUCTION

LS

LANDSCAPE AREA

REFERENCE SHEET C0.10 FOR GENERAL CONSTRUCTION NOTES.



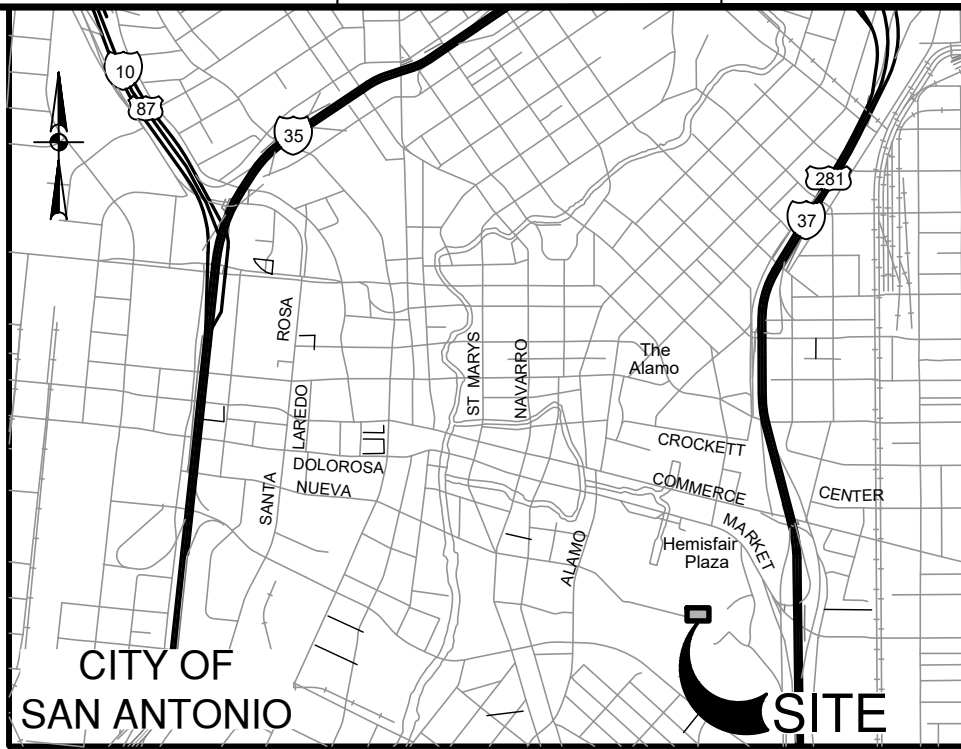




ADDRESS  
600 HEMISFAIR PLAZA WAY  
SAN ANTONIO, TX 78214

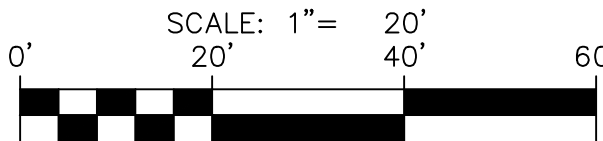
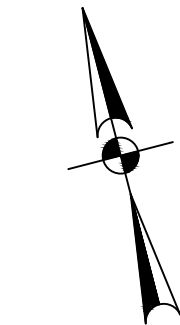
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LOT 12 & 903  
BLOCK 3  
N.C.B. 13814

PLAT  
160546



LOCATION MAP

NOT-TO-SCALE



LEGEND

	PROPERTY LINE
	LOT LINE
	LIMITS OF CONSTRUCTION
	EXISTING WATER LINE
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	EXISTING GAS
	EXISTING CHILLED WATER
	EXISTING UNDERGROUND FIBER OPTICS
	EXISTING FIRE HYDRANT
	PROPOSED WATER MAIN
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED UNDERGROUND ELECTRIC
	EXISTING SANITARY SEWER
	EXISTING STORM DRAINAGE
	PROPOSED ELECTRIC TRANSFORMER

NOTE

SEE SHEET C0.10 FOR ADDITIONAL GENERAL NOTES.

CAUTION!!

EXISTING UTILITIES ARE LOCATED WITHIN THE LIMITS OF THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR SHALL EXERCISE EXTRA CARE IN DIGGING ANY TRENCH FOR PROPOSED UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING, VERIFYING THE EXACT LOCATION AND IDENTIFYING ANY AREAS OF CONFLICTS WITH EXISTING UTILITIES AND WILL NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS ARE FOUND.

CAUTION!!

CONTRACTOR SHALL BE REQUIRED TO LOCATE ALL PUBLIC OR PRIVATE UTILITIES INCLUDING BUT NOT LIMITING TO: WATER, SEWER, TELEPHONE AND FIBER OPTIC LINES, SITE LIGHTING ELECTRIC, SECONDARY ELECTRIC, PRIMARY ELECTRICAL DUCTBANKS, LANDSCAPE IRRIGATION FACILITIES, AND GAS LINES. ANY UTILITY CONFLICTS THAT ARISE SHOULD BE COMMUNICATED TO THE ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT 1-800-DIG-TESS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND THE REPAIR SHALL BE AT CONTRACTOR'S SOLE EXPENSE WHETHER THE UTILITY IS SHOWN ON THESE PLANS OR NOT.

TRENCH EXCAVATION SAFETY PROTECTION

CONTRACTOR AND/ OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/ GEOTECHNICAL/ SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE, GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND /OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

BID SET

GVI GOMEZ VAZQUEZ INTERNATIONAL

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ISSUED SETS

Date	Description

REVISIONS

No.	Date	Description
01	05/01/2023	BIDDING SET

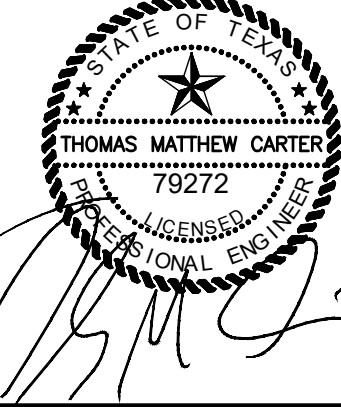
**PAPE-DAWSON**  
**ENGINEERS**

Hemisfair Sports  
Court Pavilion  
Hemisfair  
San Antonio, TX. 78205

2000 NW LOOP 410 | SAN ANTONIO, TX 78213 | 210.375.9000  
TEXAS ENGINEERING FIRM #710 | TEXAS SURVEYING FIRM #10028800

PROFESSIONAL SEAL

5/1/2023



SHEET NAME

UTILITY PLAN

Draftsman	ES	Phase	BIDDING SET
GVI Approval		Project No.	7645-56
Client Approval		File	
Date	MAY 2023	Code	

SCALE

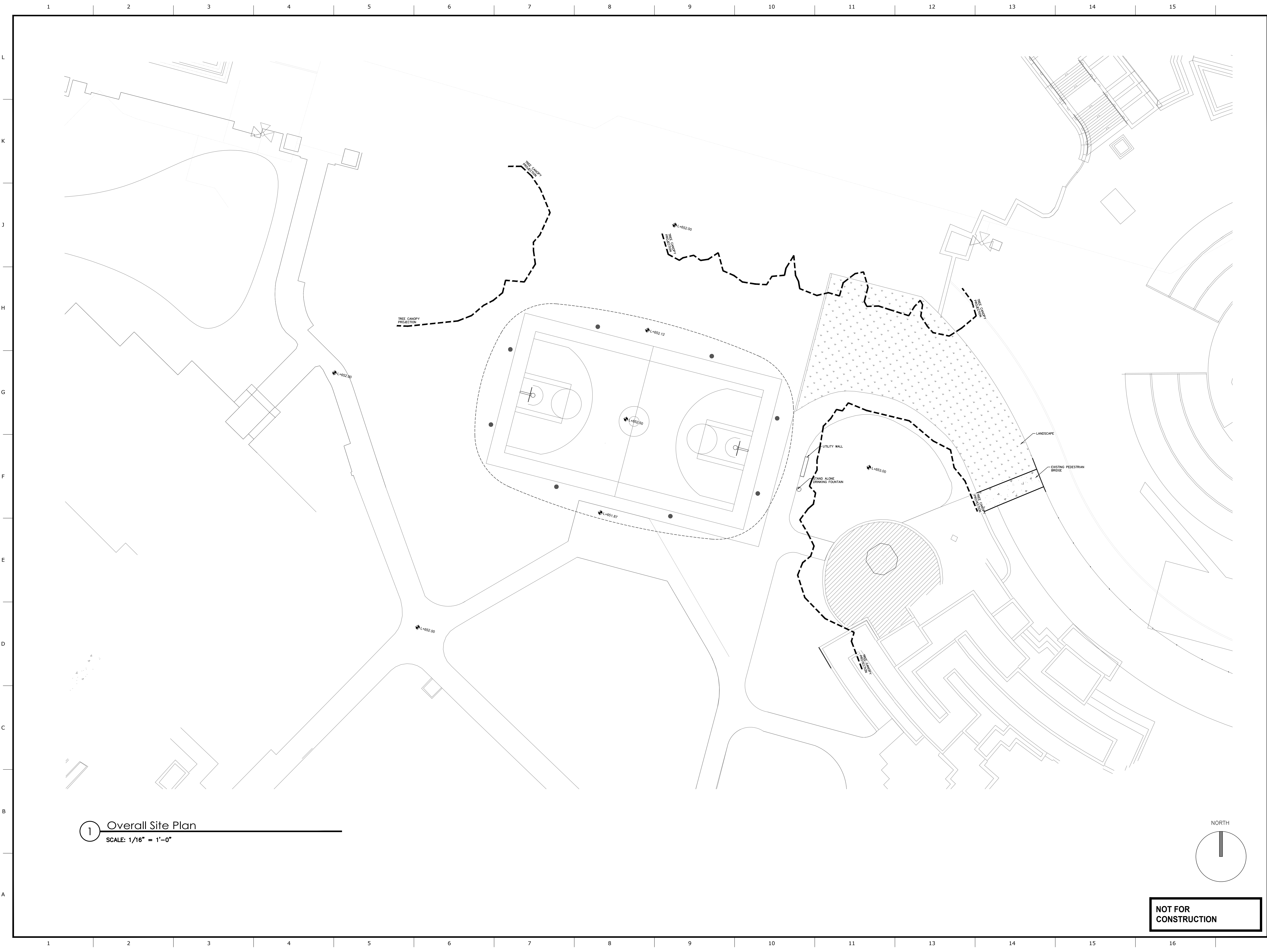
SHEET NUMBER

C3.00









1 Overall Site Plan  
SCALE: 1/16" = 1'-0"

ISSUED SETS

Date	Description

REVISIONS

No.	Date	Description
01	05/01/2023	BIDDING SET

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Hemisfair  
San Antonio, TX. 78205

PROFESSIONAL SEAL

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COORDINATION  
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SHEET NAME

SITE PLAN

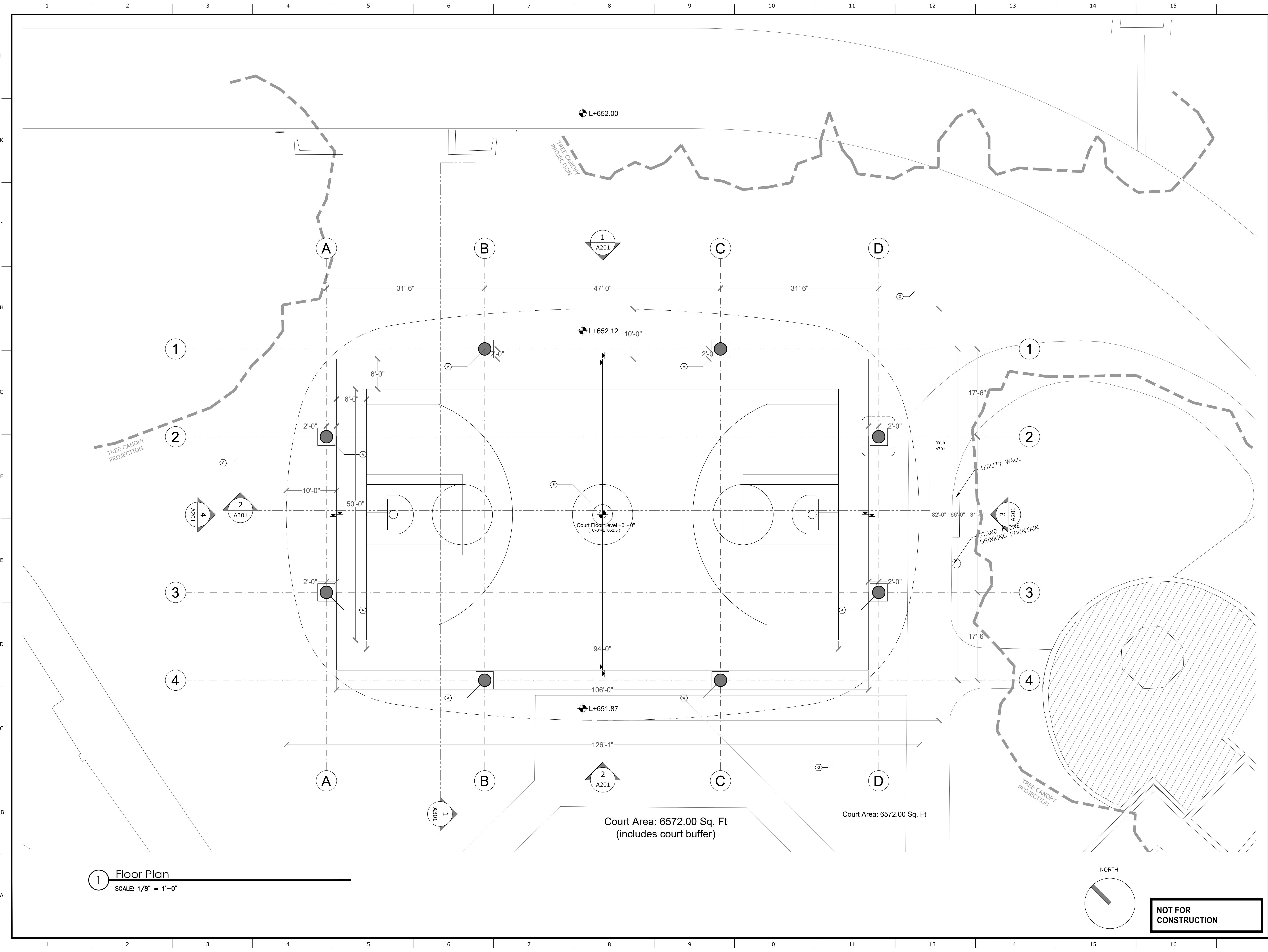
Draftsman	Phase	DESIGN DEVELOPMENT
GVI Approval	Project No.	22118
Client Approval	File	
Date	Code	
05 / 01 / 2023		

SCALE

SHEET NUMBER

A011

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Date	Description

No.	Date	Description
01	05/01/2023	BIDDING SET

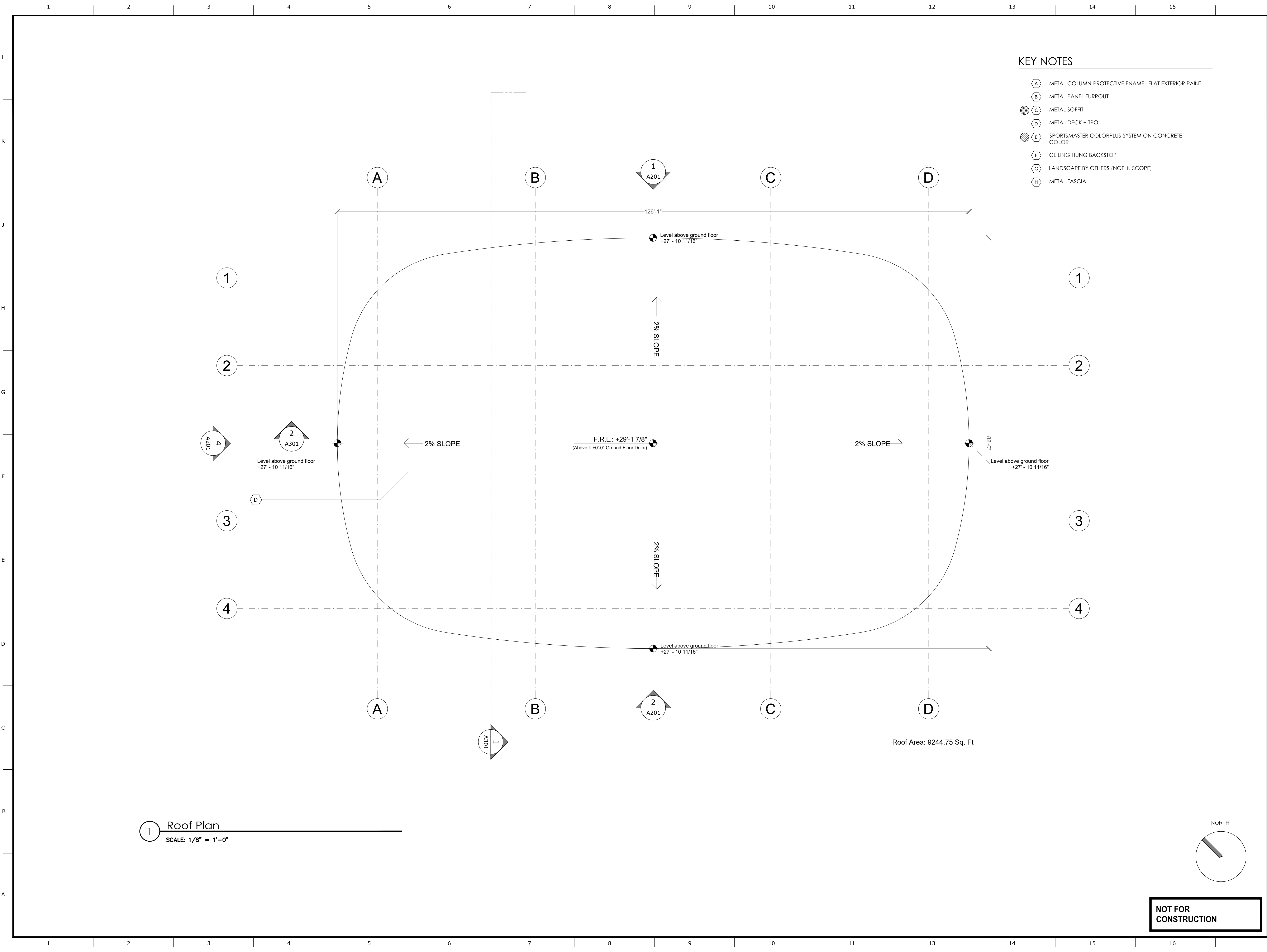
Hemisfair Sports Court Pavilion  
Hemisfair  
San Antonio, TX. 78205

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ONLY

COURT FLOOR PLAN

A101

NOT FOR  
CONSTRUCTION



KEY NOTES

- A METAL COLUMN-PROTECTIVE ENAMEL FLAT EXTERIOR PAINT
- B METAL PANEL FURROUT
- C METAL SOFFIT
- D METAL DECK + TPO
- E SPORTSMaster COLORPLUS SYSTEM ON CONCRETE COLOR
- F CEILING HUNG BACKSTOP
- G LANDSCAPE BY OTHERS (NOT IN SCOPE)
- H METAL FASCIA

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

NOT FOR  
CONSTRUCTION

ISSUED SETS

Date	Description

REVISIONS

No.	Date	Description
01	05/01/2023	BIDDING SET

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Hemisfair  
San Antonio, TX. 78205

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SHEET NAME

ROOF PLAN

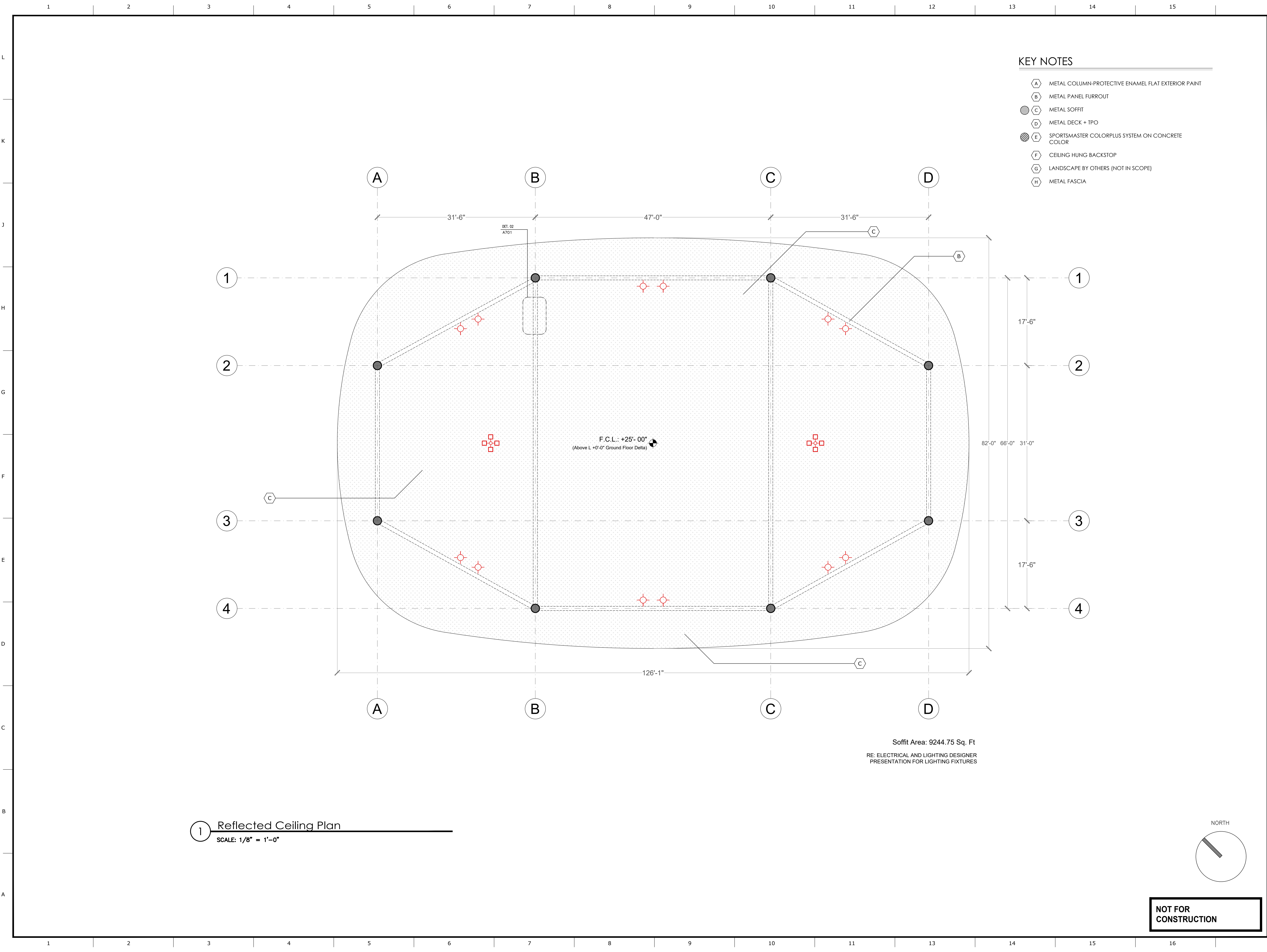
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GVI Approval	Project No.	22118
Client Approval	File	
Date	Code	
05 / 01 / 2023		

SCALE

SHEET NUMBER

A102





KEY NOTES

- A METAL COLUMN-PROTECTIVE ENAMEL FLAT EXTERIOR PAINT
- B METAL PANEL FURROUT
- C METAL SOFFIT
- D METAL DECK + TPO
- E SPORTSMaster COLORPLUS SYSTEM ON CONCRETE COLOR
- F CEILING HUNG BACKSTOP
- G LANDSCAPE BY OTHERS (NOT IN SCOPE)
- H METAL FASCIA

ISSUED SETS

Date	Description

REVISIONS

No.	Date	Description
01	05/01/2023	BIDDING SET

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SHEET NAME

REFLECTED CEILING PLAN

Draftsman	Phase	DESIGN DEVELOPMENT
GVI Approval	Project No.	22118
Client Approval	File	
Date	Code	
05 / 01 / 2023		

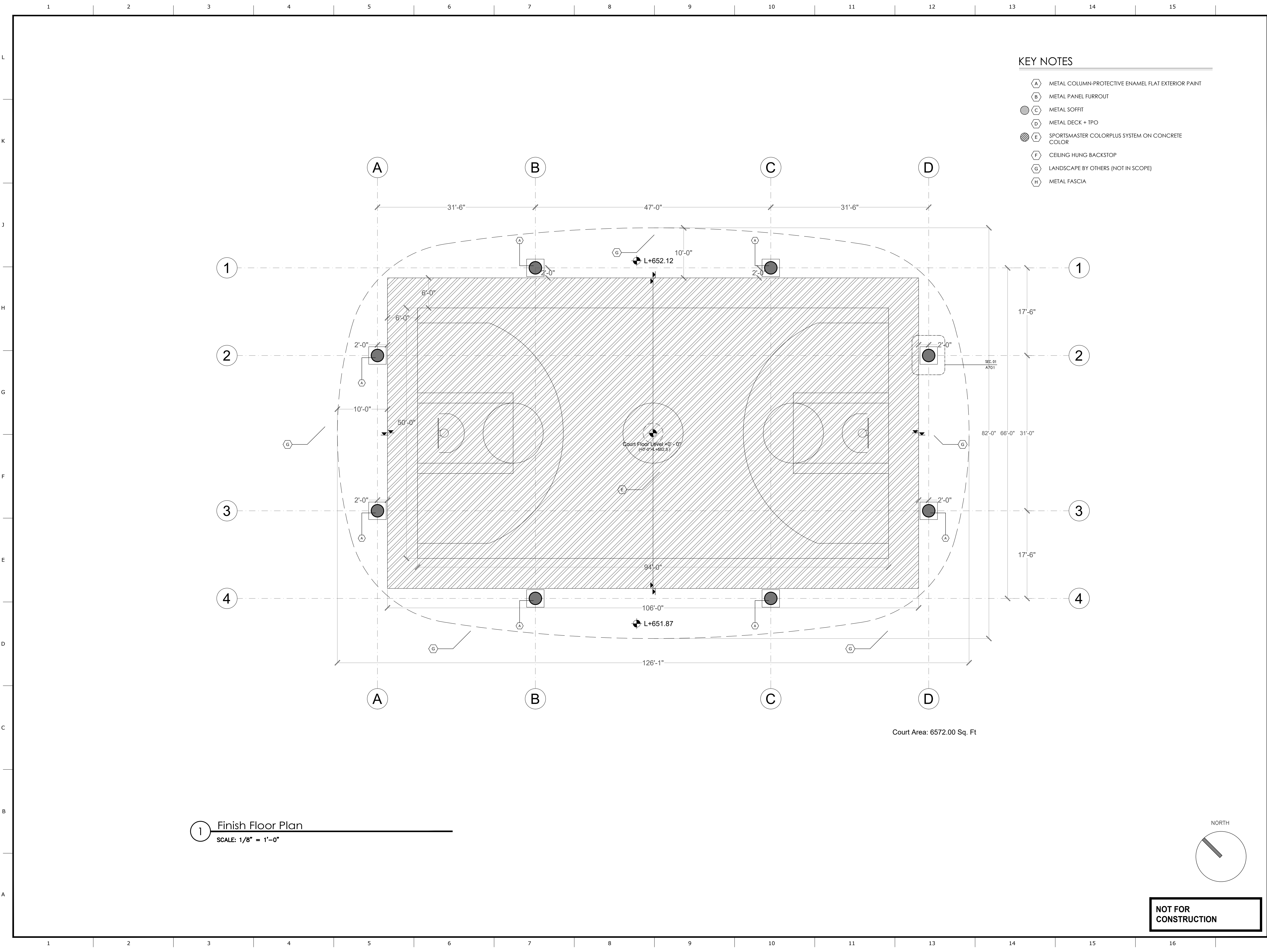
SCALE

SHEET NUMBER

A110

NOT FOR CONSTRUCTION





- KEY NOTES
- (A) METAL COLUMN-PROTECTIVE ENAMEL FLAT EXTERIOR PAINT
  - (B) METAL PANEL FURROUT
  - (C) METAL SOFFIT
  - (D) METAL DECK + TPO
  - (E) SPORTSMaster COLORPLUS SYSTEM ON CONCRETE COLOR
  - (F) CEILING HUNG BACKSTOP
  - (G) LANDSCAPE BY OTHERS (NOT IN SCOPE)
  - (H) METAL FASCIA

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ISSUED SETS

Date	Description

REVISIONS

No.	Date	Description
01	05/01/2023	BIDDING SET

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SHEET NAME

FINISH FLOOR  
PLAN

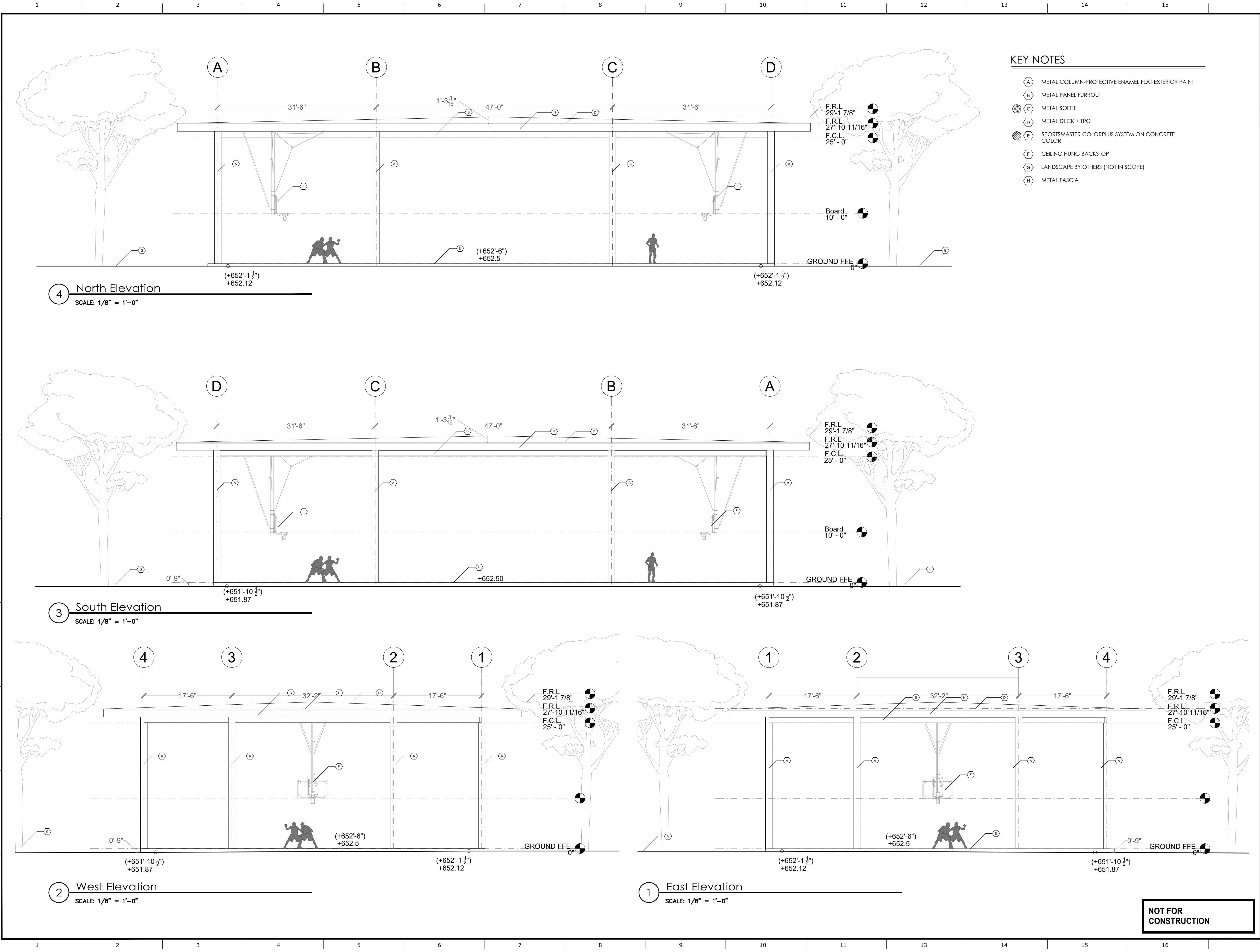
Draftsman	Phase	DESIGN DEVELOPMENT
GVI Approval	Project No.	22118
Client Approval	File	
Date	05 / 01 / 2023	Code

SCALE

SHEET NUMBER

A120

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Date	Description

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No.	Date	Description
01	05/01/2023	BIDDING SET

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SHEET NAME  
  
ELEVATIONS

Draftsman	Phase	DESIGN DEVELOPMENT
GVI Approval	Project No.	22118
Client Approval	File	
Date	Code	
05 / 01 / 2023		

SCALE  
SHEET NUMBER  
  
A201



KEY NOTES

- (A) METAL COLUMN-PROTECTIVE ENAMEL FLAT EXTERIOR PAINT  
(B) METAL PANEL FURROUT  
(C) METAL SOFFIT  
(D) METAL DECK + TPO  
(E) SPORTSMaster COLORPLUS SYSTEM ON CONCRETE COLOR  
(F) CEILING HUNG BACKSTOP  
(G) LANDSCAPE BY OTHERS (NOT IN SCOPE)  
(H) METAL FASCIA

2 Section

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

1 Section

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

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SHEET NAME

SECTIONS

Draftsman	Phase	DESIGN DEVELOPMENT
GVI Approval	Project No.	22118
Client Approval	File	
Date	05 / 01 / 2023	Code

SCALE

SHEET NUMBER

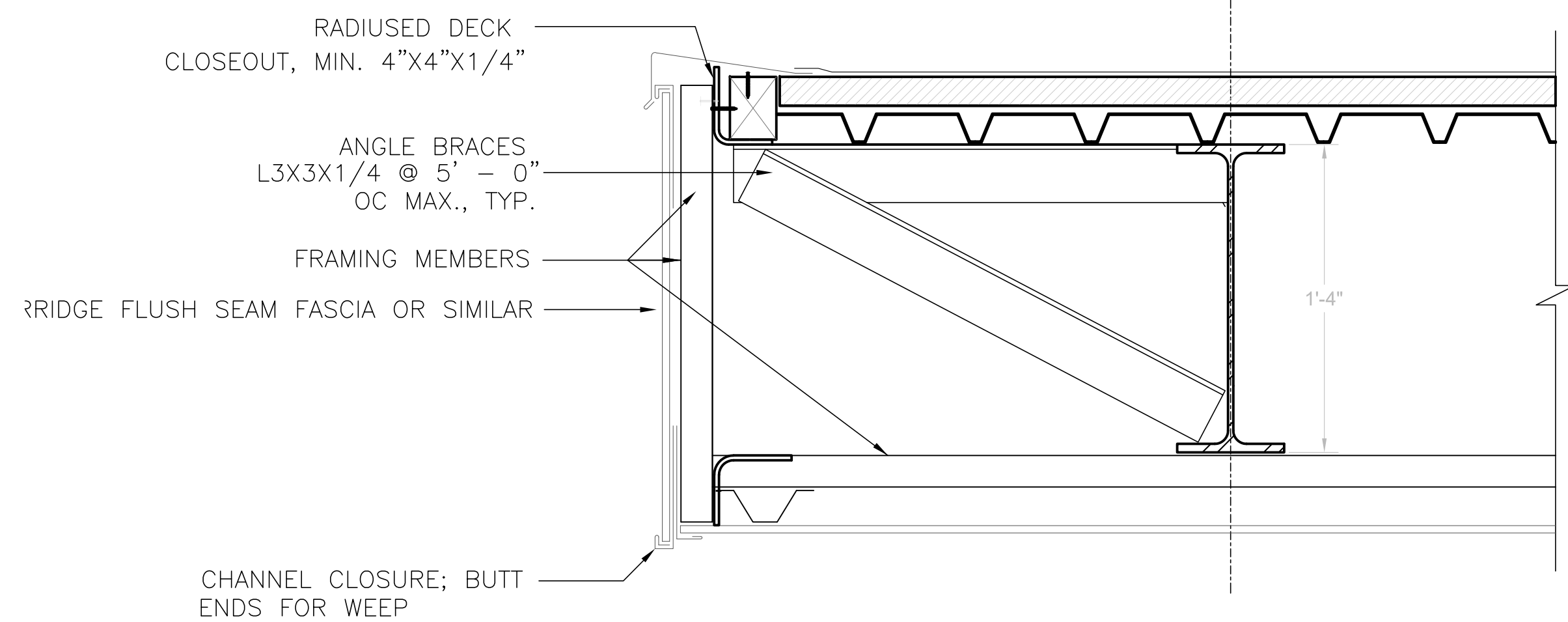
A301

NOT FOR  
CONSTRUCTION

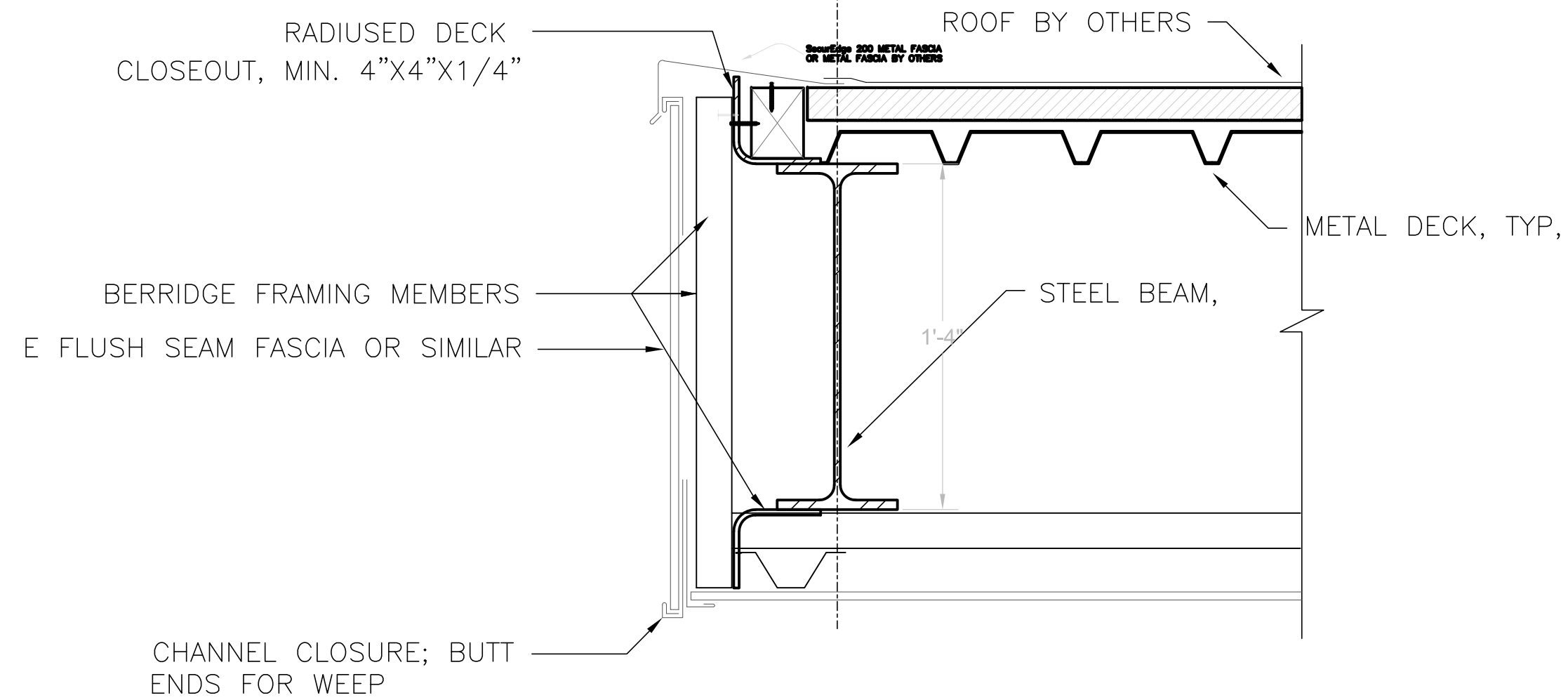






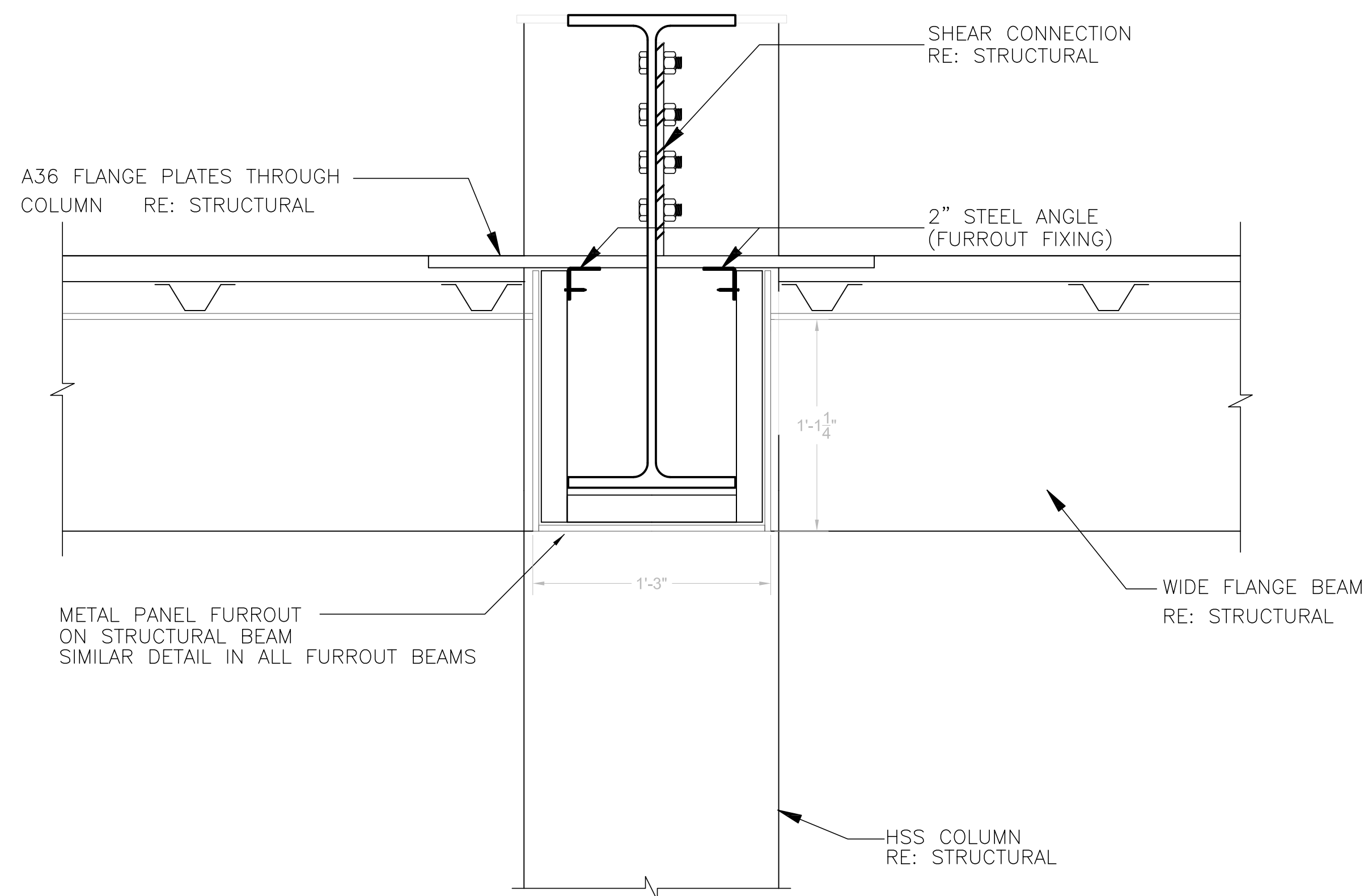


#### 4 Roof Deck Long Overhang



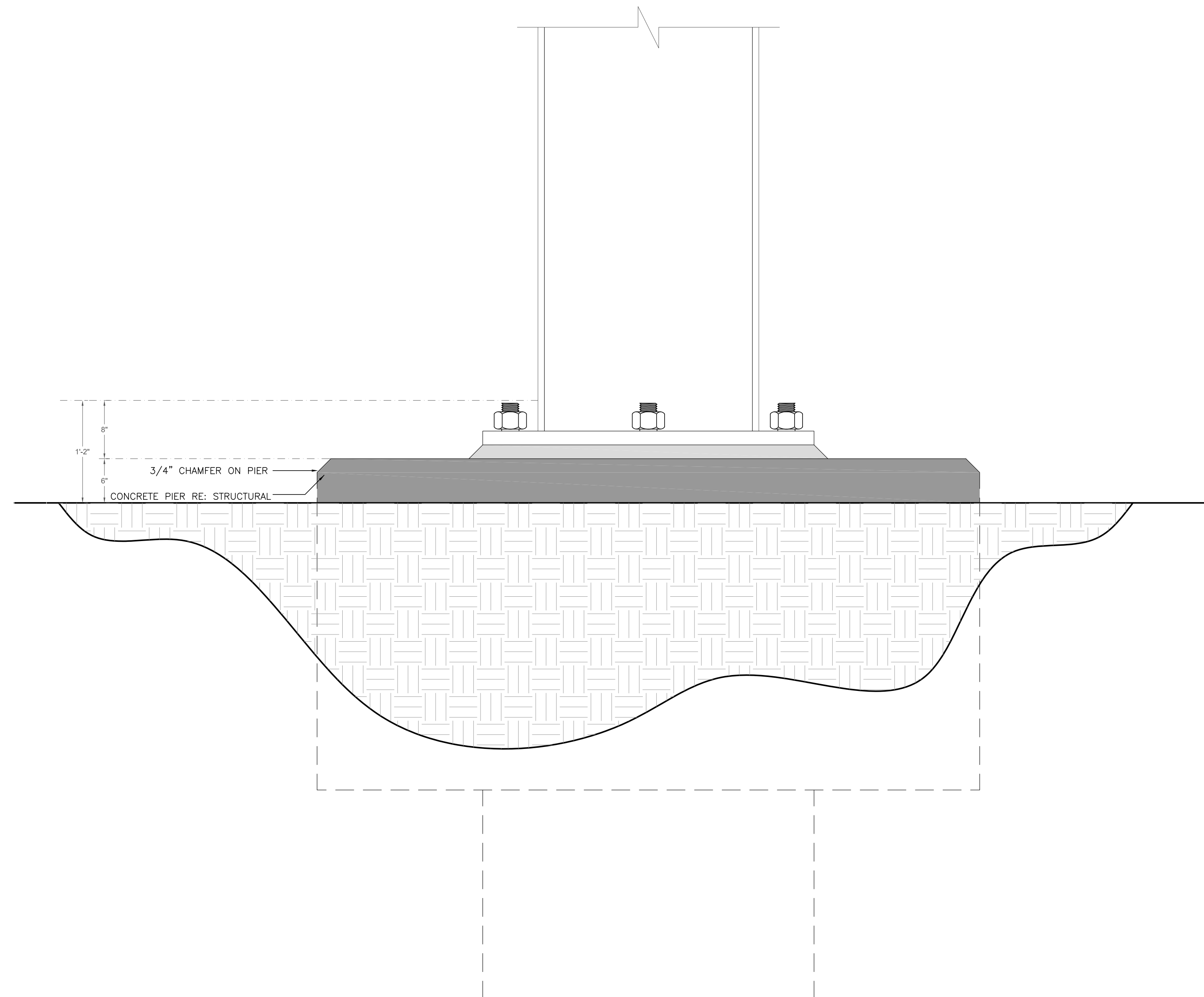
### 3 Closeout At Roof

SCALE: N.T.S



## 2 Structural Beams Furrou

SCALE: N.T.S



## 1 Straight Shaft Pier & Pier Cap

**NOT FOR  
CONSTRUCTION**

Date	Description

## REVISIONS

[illegible]

**Hemisfair Sports  
Court Pavilion**  
Hemisfair  
San Antonio, TX. 78205

Hemisfair  
San Antonio, TX. 78205

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SHEET NAME

## DETAILS

Draftsman	Phase	DESIGN DEVELOPMENT
GVI Approval	Project No.	22118
Client Approval	File	
Date 05 / 01 / 2023	Code	

SCALE

SHEET NUMBER

A701





[illegible][illegible]



[illegible]

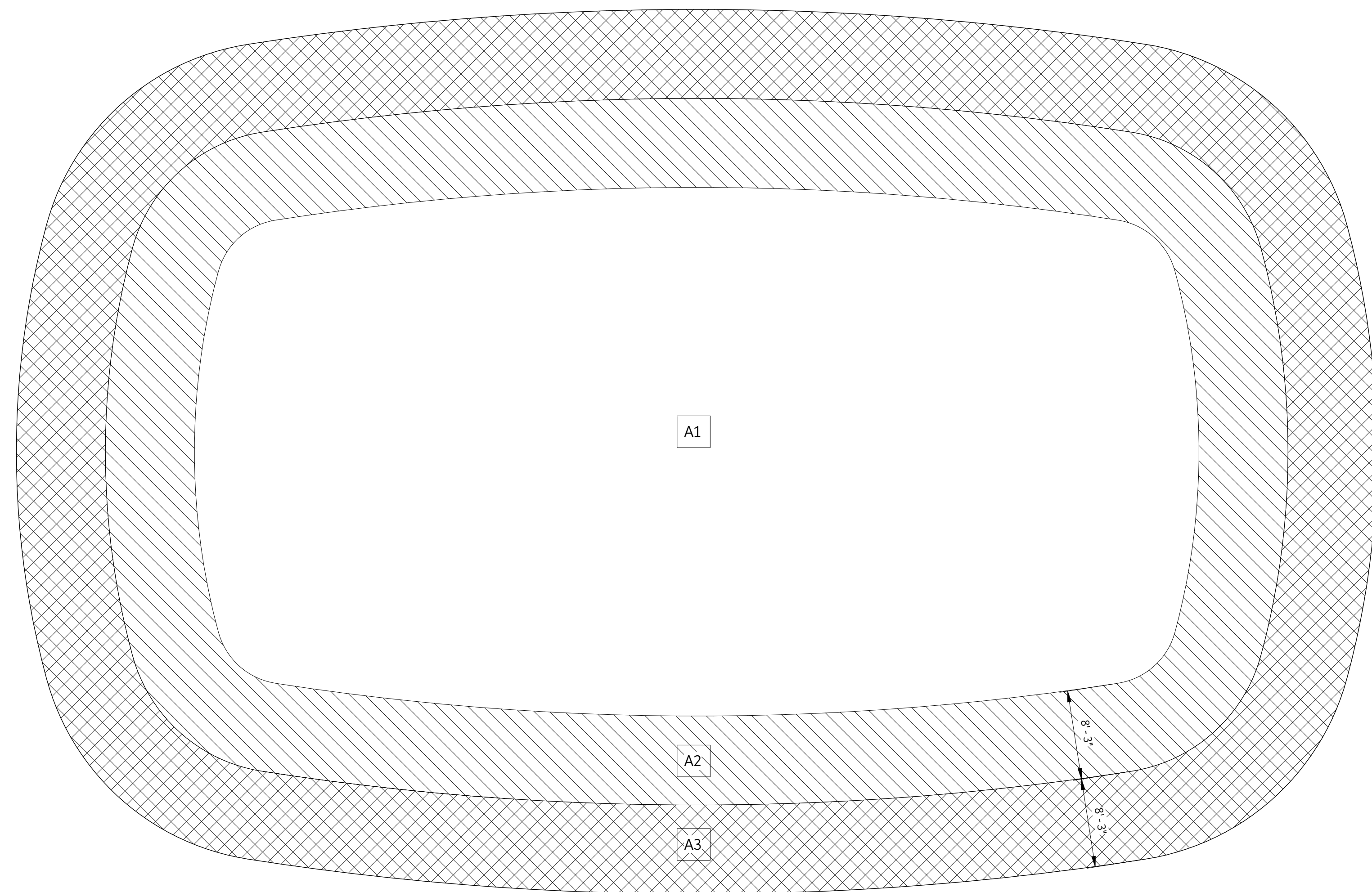
GESSNER ENGINEERING 401 W. 26th Street Bryan, TX 77803 Tx Registered Engineering Firm F-7451		
ARCHITECTURE   PLANNING   URBAN DESIGN		
210-404-9658		www.gvi.archi
ISSUED SETS		
Date	Description	
05/01/2023	Bid Set	
REVISIONS		
No.	Date	Description
Hemisfair Sports Court Pavilion  Hemisfair San Antonio, TX. 78205		
PROFESSIONAL SEAL		
SHEET NAME		
NOTES		
Drawn by: JFW	Phase	BID SET
Checked by: NAG	GVI Job Number	22118
GVI Approval	GE Job Number	22-1291
Client Approval		
Date	05/01/23	
SCALE AS NOTED		
SHEET NUMBER		
S001		



ROOF CONNECTION TABLE		
HATCH	FASTENING PATTERN:	SIDELAP CONNECTOR SPACING:
	32/3	36" OC
	32/5	36" OC

**NOTES:**

1. FASTEN DECK AT END LAPS, END SUPPORTS, AND INTERMEDIATE SUPPORTS USING 5/8" RUDDE WELDS OR HILTI-ENRIP POWDER ACTUATED FASTENERS, SPACED PER TABLE ABOVE.
2. FASTEN SIDELAPS OF ADJACENT ROOF DECK UNITS USING #10-16 SELF DRILLING SCREWS, SPACED PER TABLE ABOVE.



ROOF WIND PRESSURES			
ZONE	WIND PRESSURE BASED ON TRIBUTARY AREA (PSF)		
	≤ 67 SE	>67 SE <269 SE	>269 SE
A1	+19.1/-17.1	+19.1/-17.1	+19.1/-17.1
A2	+28.6/-26.7	+28.6/-26.7	+19.1/-17.1
A3	+38.2/-52.0	+28.6/-26.7	+19.1/-17.1

**NOTES:**  
 1. ALL NOTED PRESSURES SHOWN ARE STRENGTH LEVEL (ULRF) UPLIFT PRESSURES APPLIED TO THE TOP OF THE ROOF SURFACE.

**BID SET**

**GESSNER ENGINEERING**

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Bryan, TX 77803  
Tx Registered Engineering Firm F-7451

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ISSUED SETS

Date	Description
05/01/2023	Bid Set

## REVISIONS

No.	Date	Description
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Court Pavilion  
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San Antonio, TX. 78205

PROFESSIONAL SEAL

SHEET NAME

## ROOF CONNECTIONS AND DESIGN LOAD PLANS

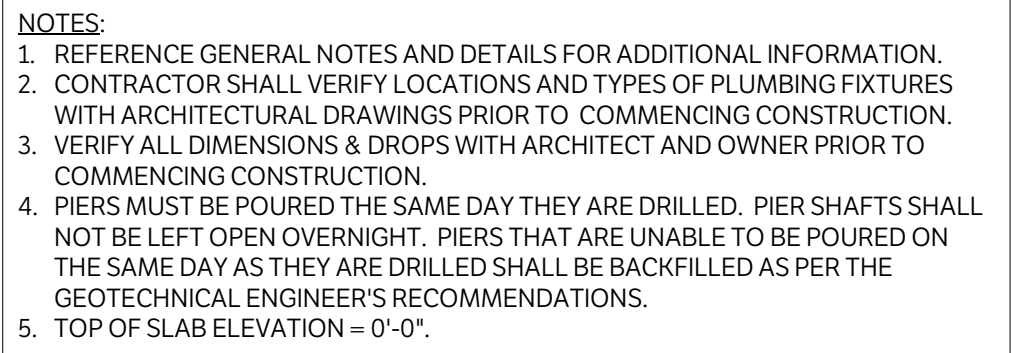
Drawn by: Author	Phase	
Checked by: Checker	BID SET	
GVI Approval	GVI Job Number	22118
Client Approval	GE Job Number	22-129
Date	05/01/23	

SCALE	AS NOTED
-------	----------

SHEET NUMBER

S002



**BID SET**

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Bryan, TX 77803  
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## ISSUED SETS


## REVISIONS

[illegible]

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PROFESSIONAL SEAL

SHEET NAME

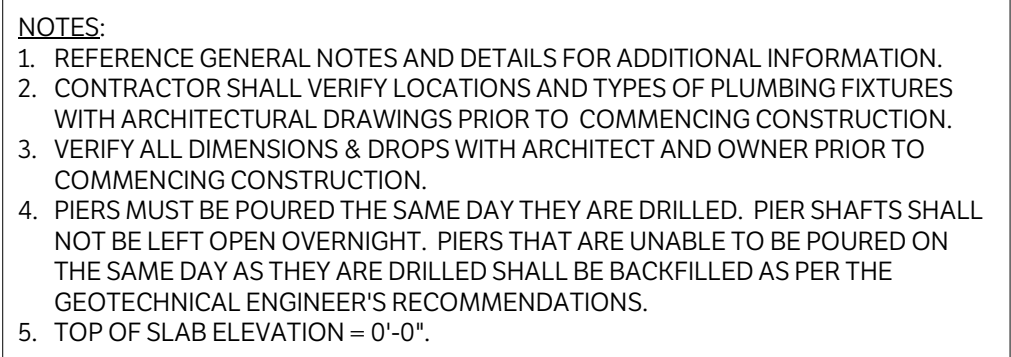
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SCALE AS NOTED

SHEET NUMBER

S100



**BID SET**

401 W. 26th Street  
Bryan, TX 77803  
Tx Registered Engineering Firm F-7451

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### Description

### Bid Set

No.	Date	Description
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Hemisfair  
San Antonio, TX. 78205

San Antonio, TX. 78205

PROFESSIONAL SEAL

SHEET NAME

## FOUNDATION PLAN

Drawn by: EL

Phase

Checked by: NAG

1000 1000 1000 1000 1000 1000

Client Approval

GE Job Number

Date \_\_\_\_\_

SCALE AC NOTED

SHEET NUMBER

# S101

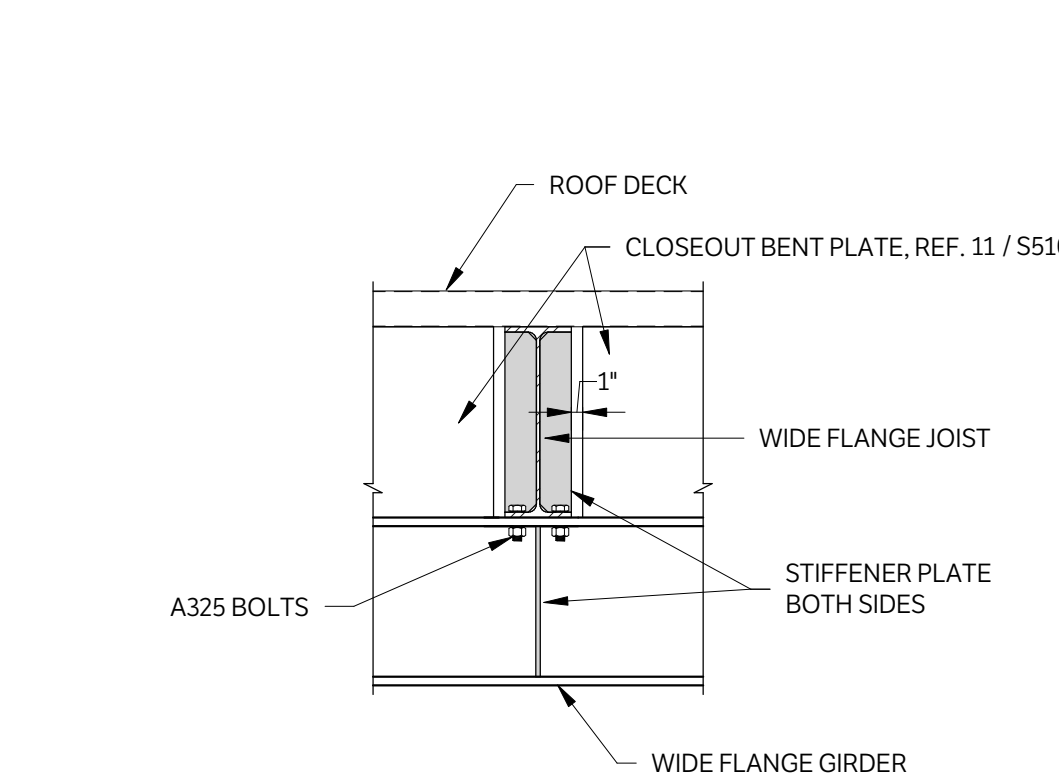
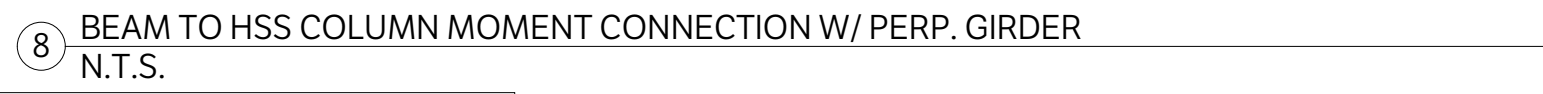
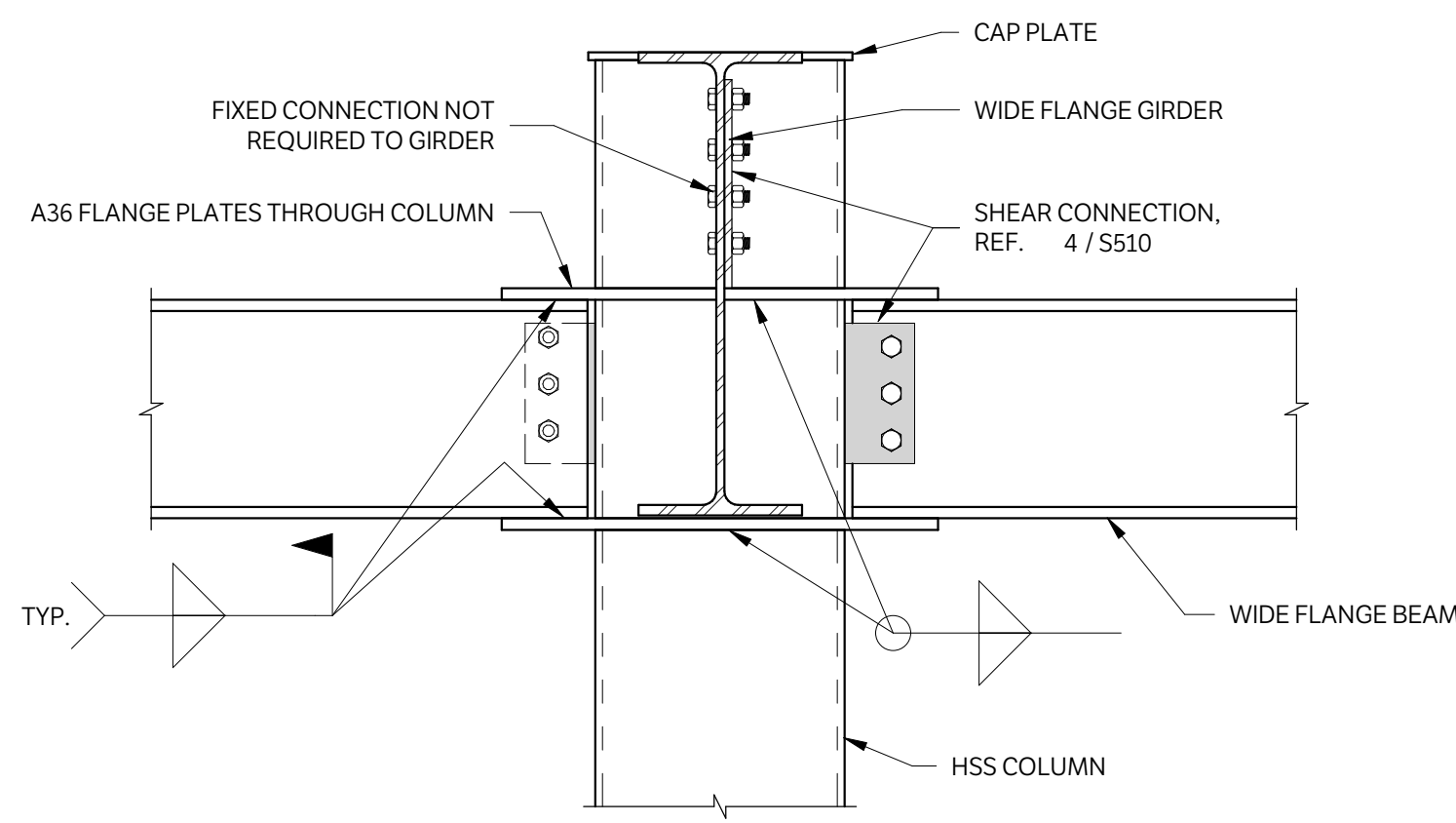
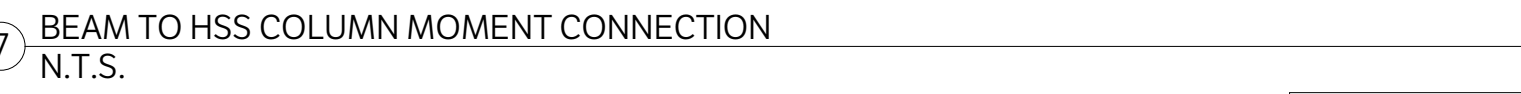
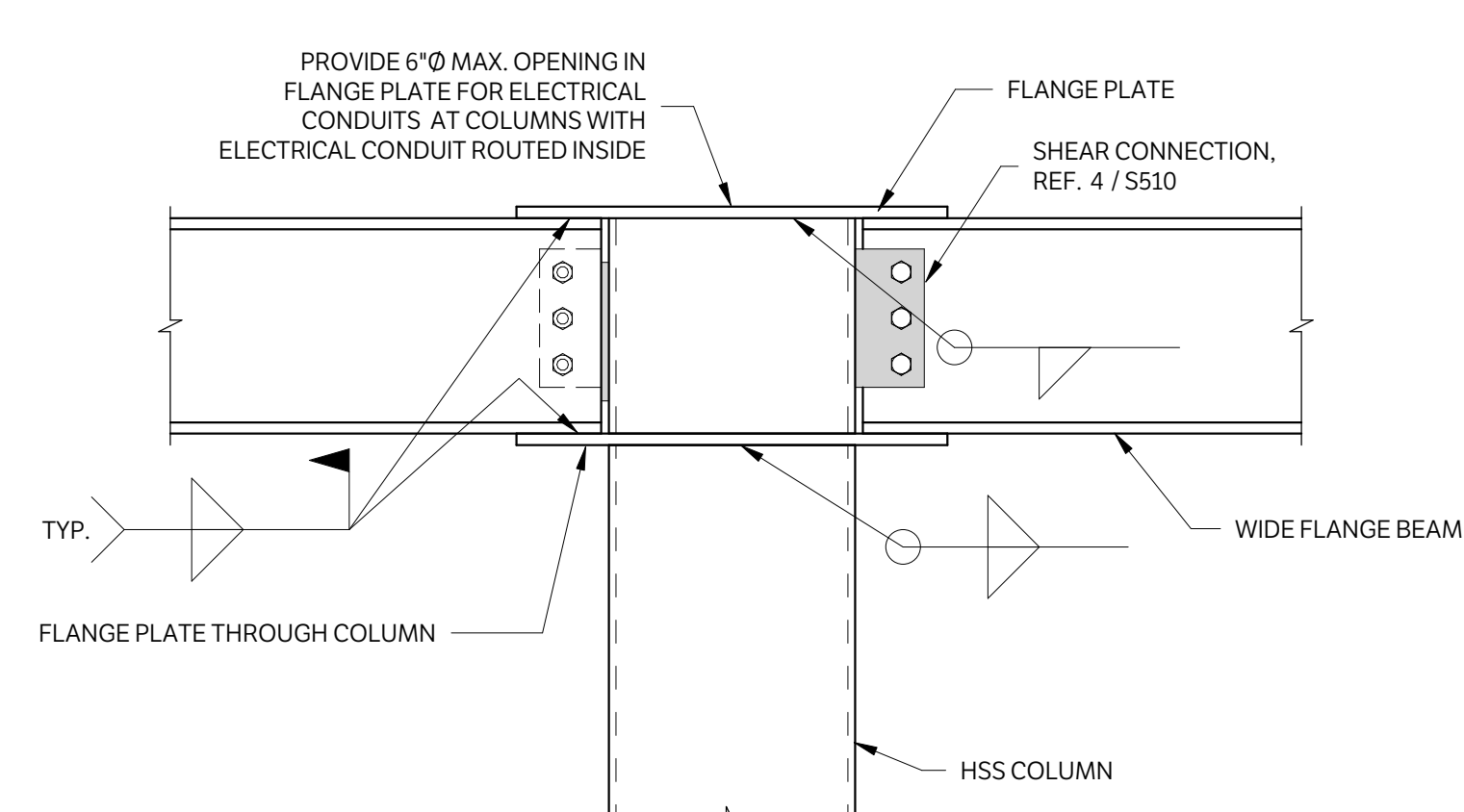
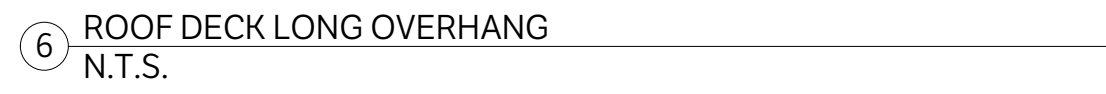
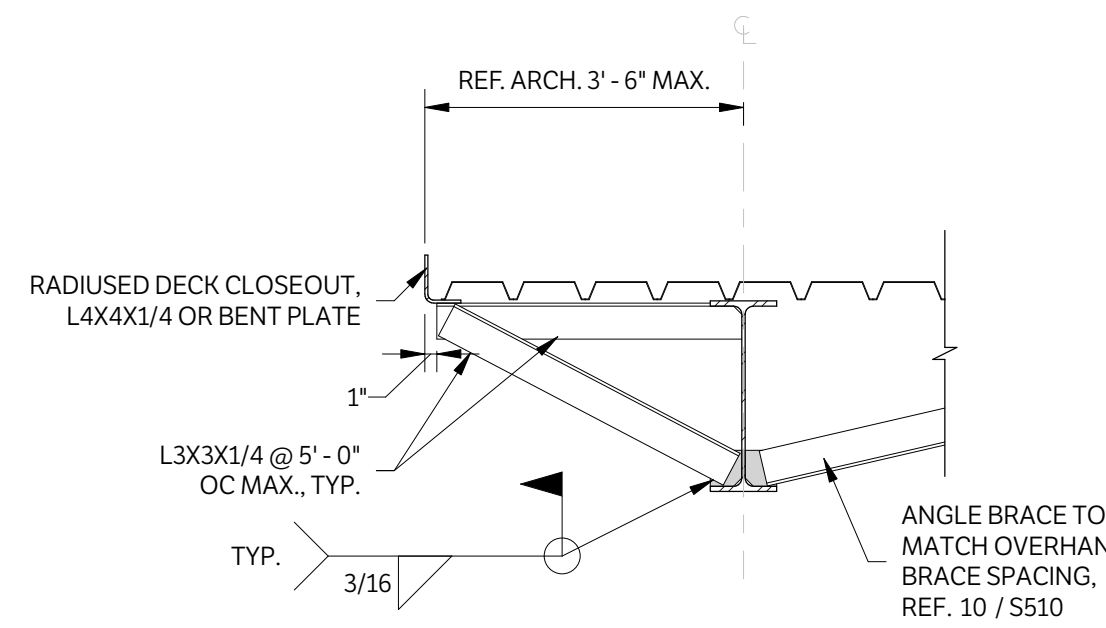
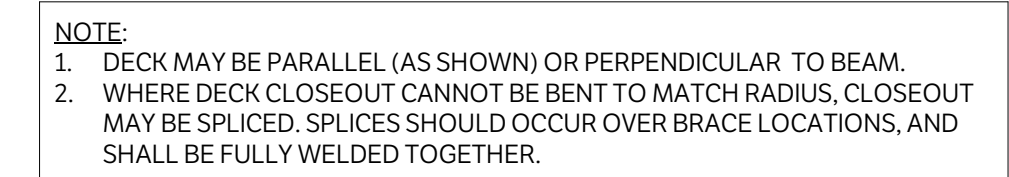
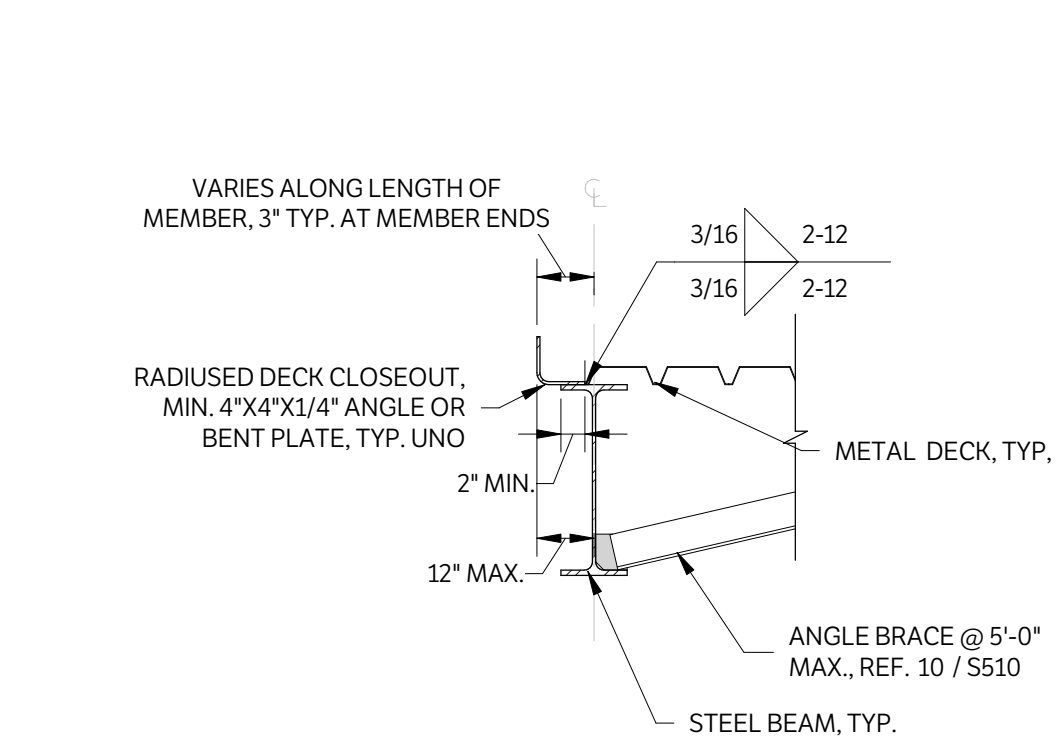
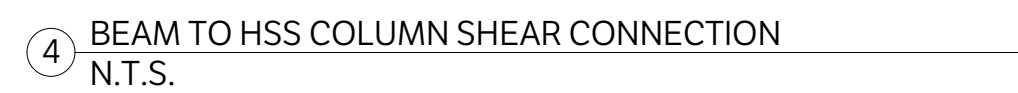
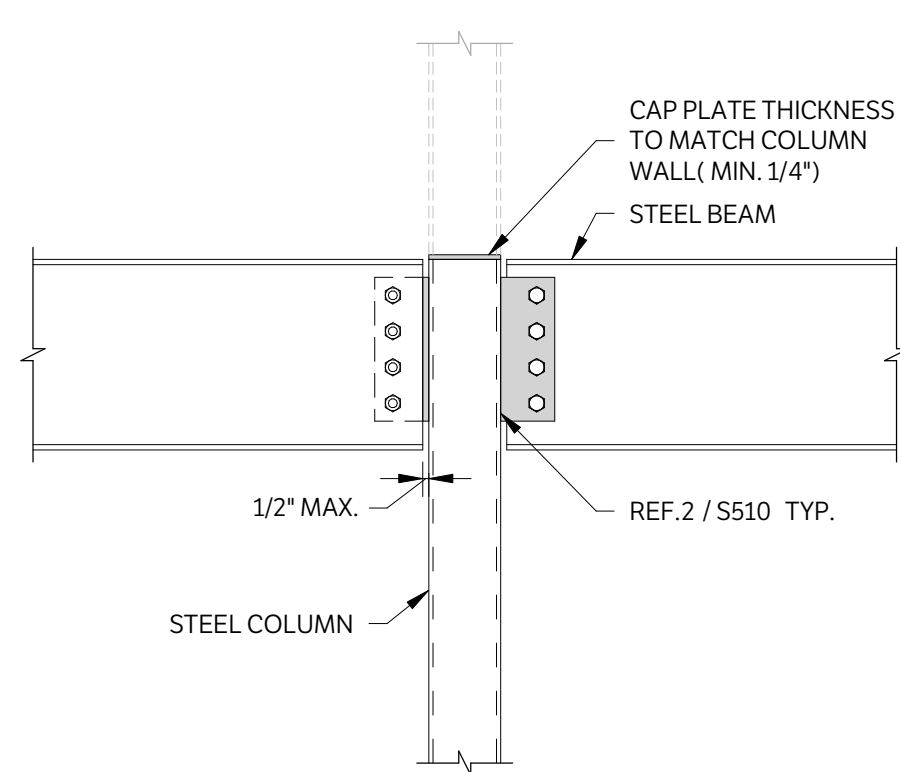
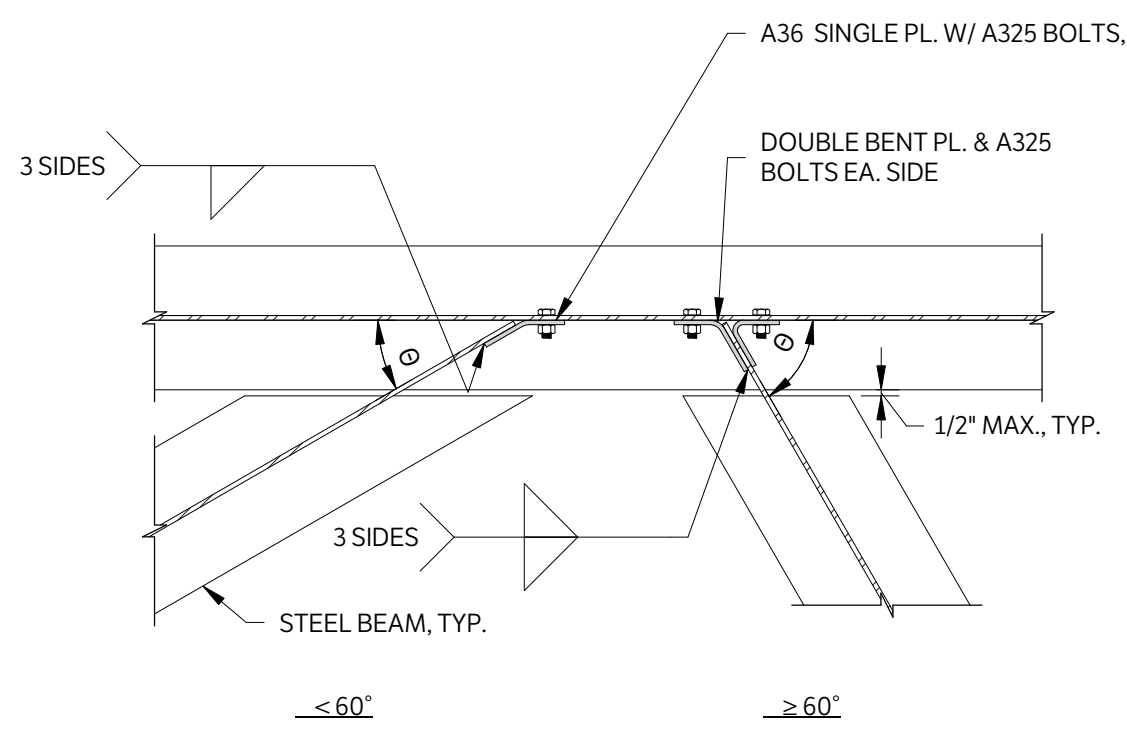
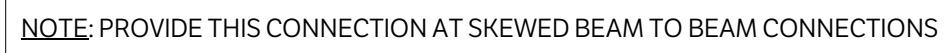
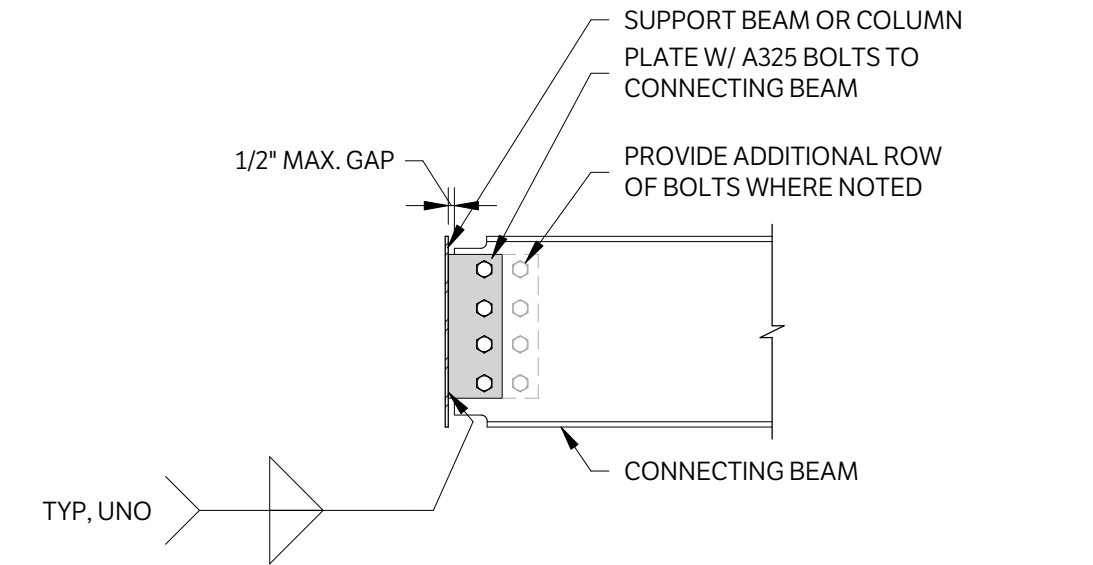
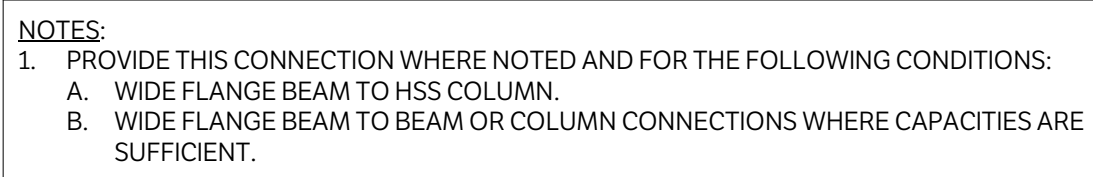
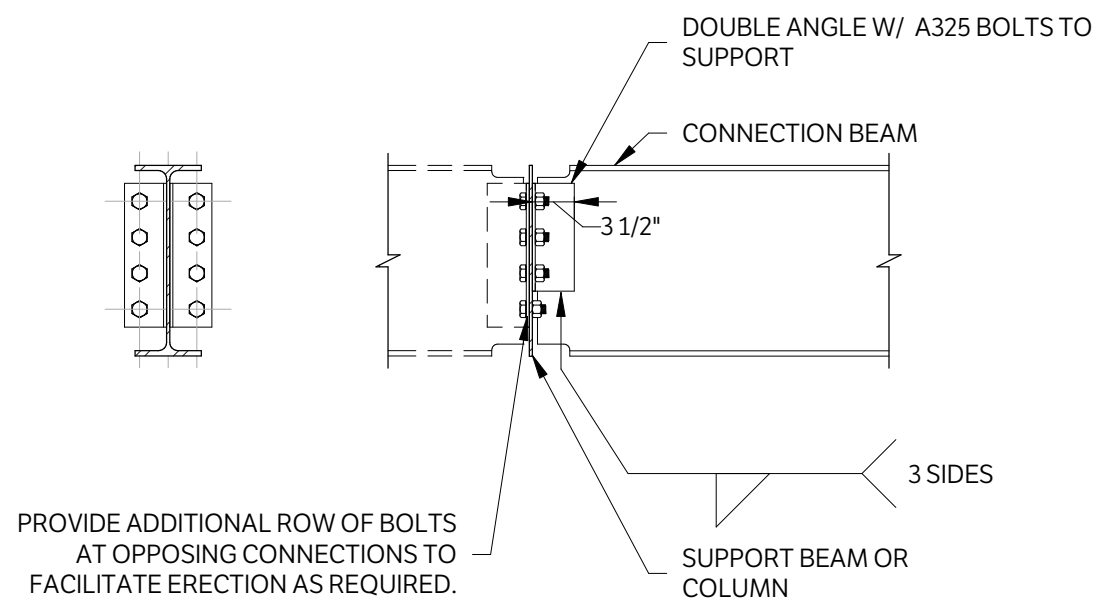
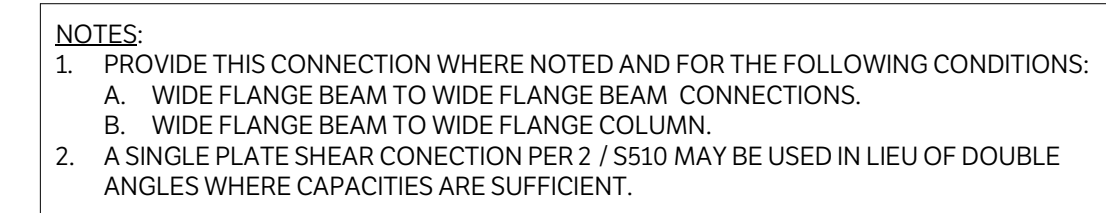




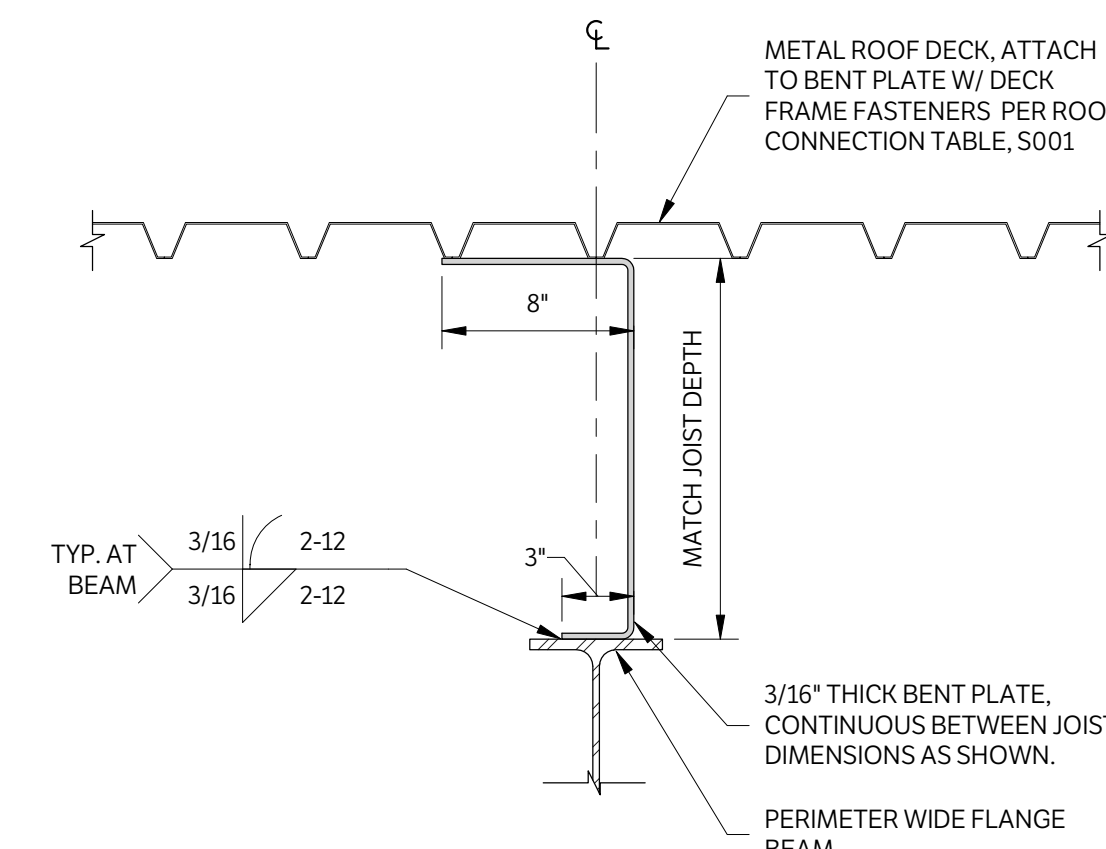
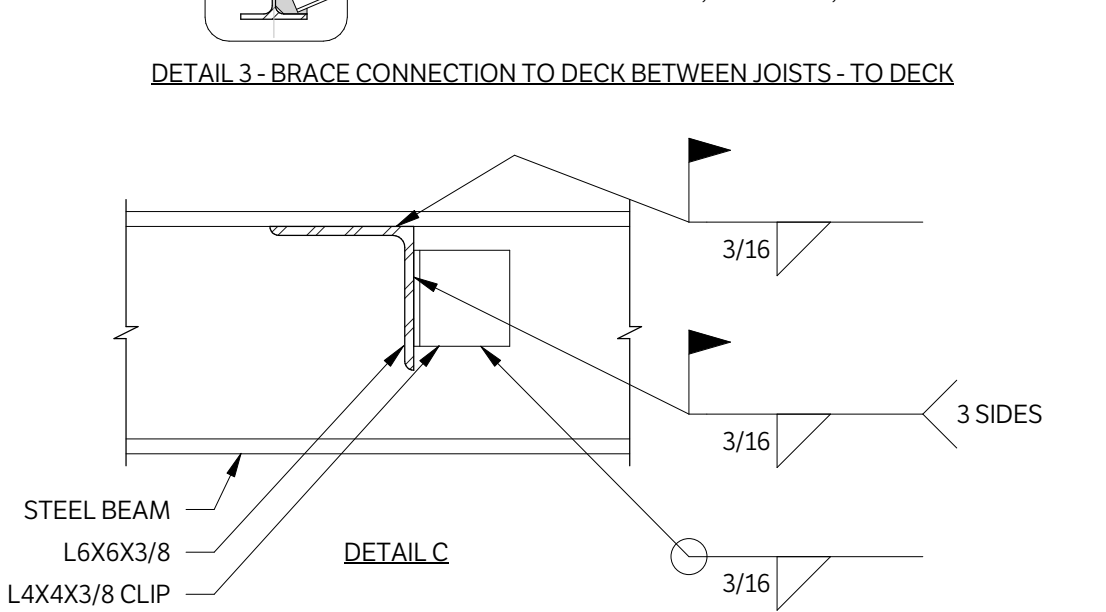
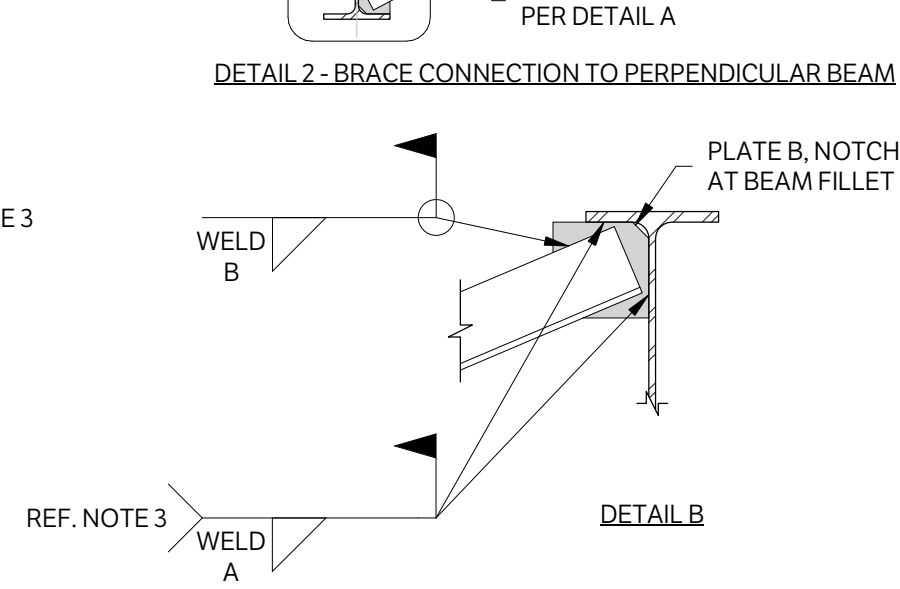
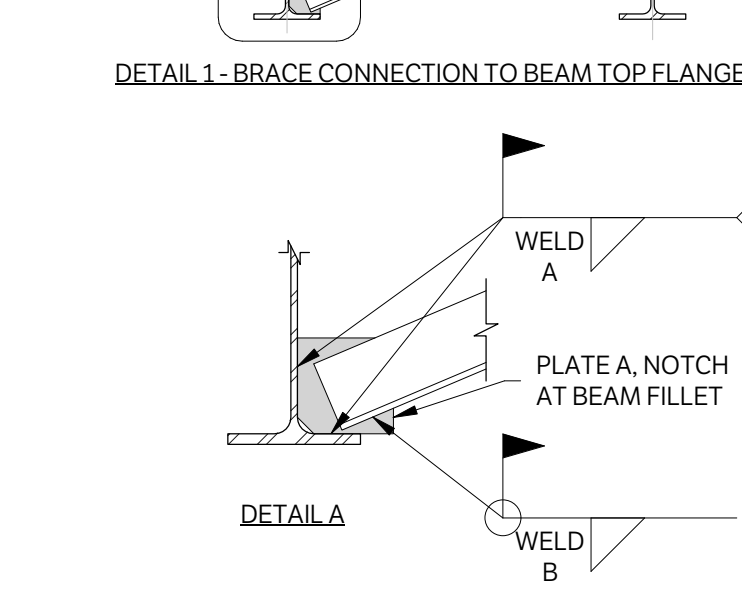
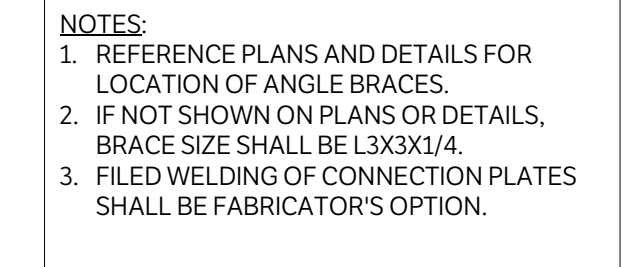
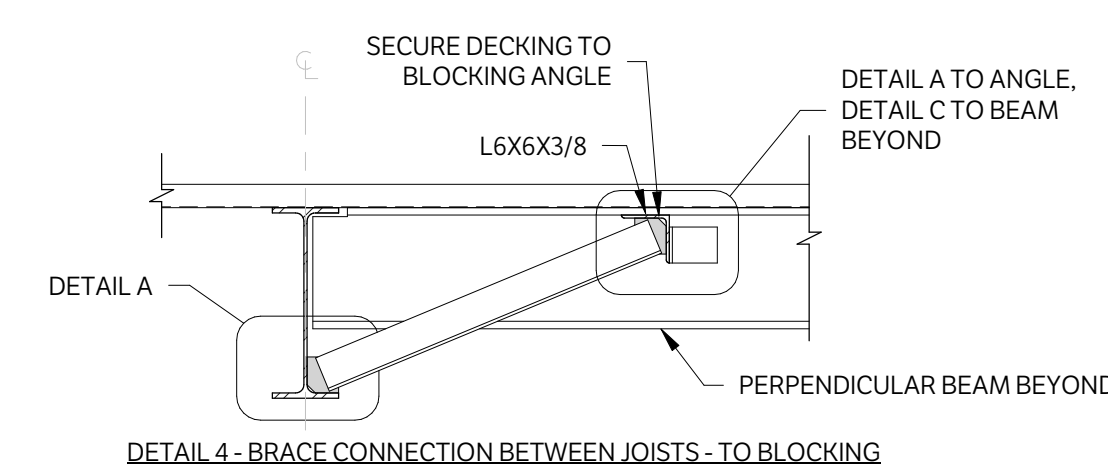
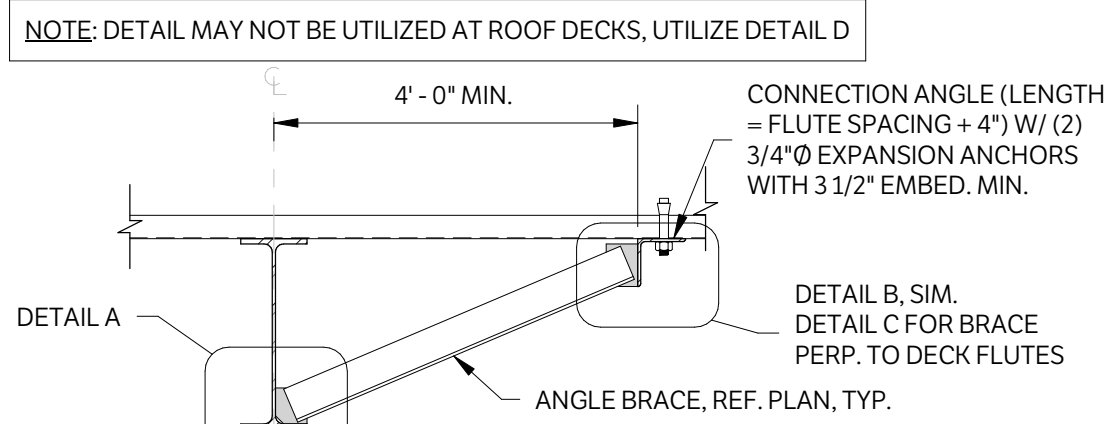
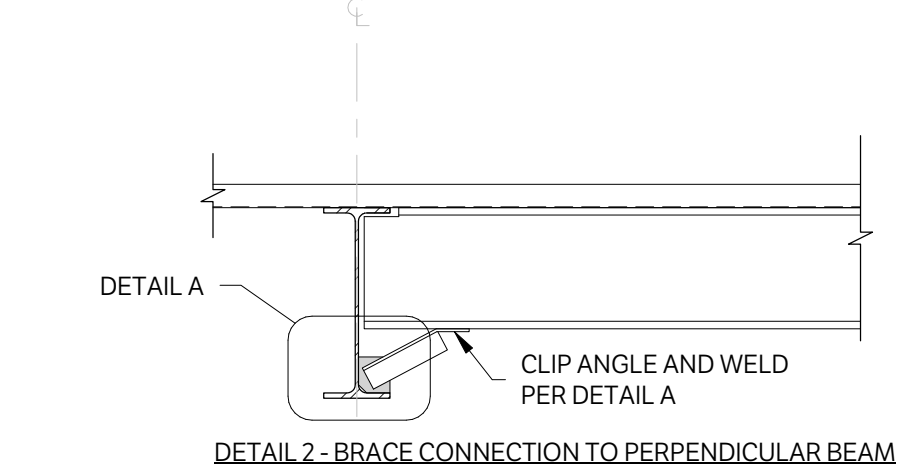
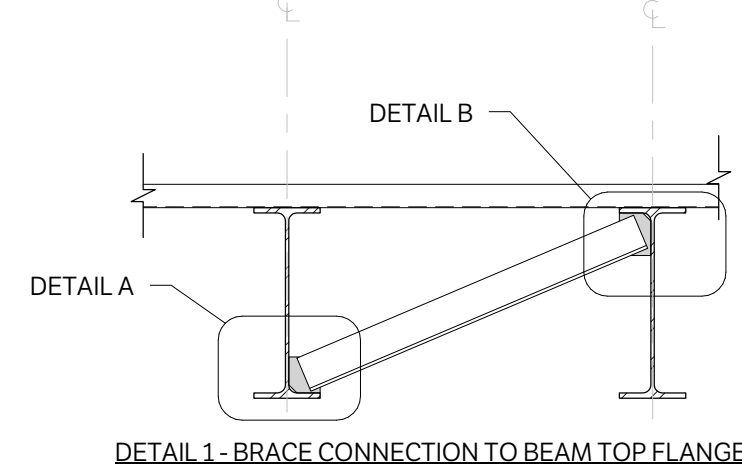








CONNECTION SCHEDULE			
BRACE SIZE	PLATES A&B	WELDS A&B	CONNECTION ANGLE
L2X2X1/4	4X4X1/4	3/16	L3X3X1/4
L3X3X1/4	4X4X1/4	3/16	L4X4X1/4
L4X4X1/4	4X4X1/4	3/16	L5X5X5/16
L5X5X5/16	4X4X1/4	1/4	L6X6X1/2

[illegible]



ELECTRICAL SYMBOLS AND ABBREVIATIONS

(SOME SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT)

SYMBOLS

GENERAL

	MOTOR, HP AS INDICATED
	CONTROLLER TO BE FURNISHED UNDER DIVISION 15 AND INSTALLED UNDER DIVISION 16
	DISCONNECT SWITCH
	MAGNETIC MOTOR STARTER
	COMBINATION MOTOR STARTER/DISCONNECT SWITCH
	GROUNDING REFERENCE POINT
	JUNCTION BOX, CEILING MOUNTED
	JUNCTION BOX, WALL MOUNTED
	PHOTO CELL; WP= WEATHER PROOF AND SHALL BE INSTALLED FACING NORTH DIRECTION, UON
	RELAY
	TIME CLOCK
	CONTACTOR
	BELL
	BUZZER
	CEILING MOUNTED CLOCK
	WALL MOUNTED CLOCK; WG INDICATED WIRE GUARD
	WALL MOUNTED DOUBLE FACE CLOCK; HEIGHT AS DESIGNATED BY ARCHITECT; WG INDICATES WIRE GUARD
	HORN; WP= WEATHER PROOF
	TRANSFORMER AS INDICATED
	AUTOMATIC TRANSFER SWITCH
	EQUIPMENT CONNECTION
	KEYED NOTE NO. 2
	MECHANICAL EQUIPMENT DESIGNATION. REFER TO MECHANICAL EQUIPMENT SCHEDULES.

LUMINAIRES

	LUMINAIRE, CEILING OR WALL MOUNTED (REFER FIXTURE SCHEDULE). LOWCASE SUBSCRIPT INDICATES ASSOCIATED SWITCHING ZONES. CAPITAL LETTER INDICATES FIXTURE TYPE. "E" SUFFIX INDICATES BATTERY BACK-UP OR GENERATOR/UPS BACKED
	FIXTURE CEILING/RECESSED MOUNTED (REFER FIXTURE SCHEDULE)
	FIXTURE WALL MOUNTED (REFER FIXTURE SCHEDULE)
	WALL/WASH FIXTURE CEILING MOUNTED. ARROW INDICATES DIRECTION OF WASH.
	EXIT LIGHT, UNSWITCHED, BATTERY BACK-UP, SELF DIAGNOSTICS, CEILING MOUNTED WITH ARROWS AS INDICATED ON DRAWINGS. CONNECT TO EMERGENCY SYSTEM (IF AVAILABLE).
	EXIT LIGHT, UNSWITCHED, WALL MOUNTED, BATTERY BACK-UP, SELF DIAGNOSTICS, WITH ARROWS AS INDICATED ON DRAWINGS. CONNECT TO EMERGENCY SYSTEM (IF AVAILABLE).
	FIXTURE IS UNSWITCHED (NIGHT LIGHT). "E" SUFFIX INDICATES BATTERY BACKUP WITH DRIVER, CONNECTED TO BATTERY BACK UP. FIXTURE MAY BE CONNECTED TO GENERATOR/UPS BACKUP SYSTEM.
	90 MINUTE EMERGENCY EGRESS LIGHT, WALL MOUNTED, UNSWITCHED, BATTERY TYPE WITH CHARGER.
	FLOOD LIGHT. ARROW INDICATES AIMING DIRECTION.
	TRACK LIGHT WITH HEADS AS INDICATED

RACEWAYS

	CONDUIT CONCEALED IN WALL OR CEILING WITH ONE PHASE (HOT), NEUTRAL AND GROUND CONDUCTOR UNLESS OTHERWISE NOTED
	CONDUIT UNDER FLOOR OR CAST IN STRUCTURE WITH ONE PHASE (HOT), NEUTRAL AND GROUND CONDUCTOR UNLESS OTHERWISE NOTED.
	LIGHTING SWITCH LEG
	BRANCH CIRCUIT HOMERUN; SUBSCRIPT "P1A" INDICATES PANEL AND 2,4,6 INDICATES BREAKER POSITION. MINIMUM SIZE 3/4" C, 2#12 AND 1#12 GND, MIN.
	SURFACE RACEWAY (PANDUIT TWIN 70 OR WIREMOLD EQUIV)
	TELEPHONE
	BUS DUCT WITH TAKE OFF DEVICE

PANEL AND RELATED ITEMS

	PANELBOARD (SEE SCHEDULE), SURFACE MOUNTED.
	PANELBOARD (SEE SCHEDULE), FLUSH MOUNTED.
	SWITCH-BOARD OR DISTRIBUTION BOARD
	MOTOR CONTROL CENTER
	TRANSIENT VOLTAGE SURGE SUPPRESSOR.
	PLYWOOD TELEPHONE BACKBOARD; PROVIDE WALL MOUNTED WHITE PAINTED 4x8 PLYWOOD BACKBOARD, SURGE PROTECTION, SECONDARY GROUND, AND TWO QUAD RECEPTACLES AT THE BASE OF THE BACKBOARD.

OUTLETS

	COLOR BY ARCHIOWNER SIMPLEX RECEPTACLE
	DUPLEX RECEPTACLE, 20A, 1P, (5-20R) COLOR BY ARCHIOWNER WITH COVER PLATE
	DUPLEX RECEPTACLE; GF=GROUND FAULT INTERRUPTING, WP=WEATHERPROOF, T=TAMPER RESISTANT, IG=ORANGE ISOLATED GROUND, C=CLOCK OUTLET MOUNTED 18" BELOW CEILING, TV=TV RECEPTACLE WITH COMBINATION DUPLEX RJ45 JACK MODULAR PLATE MOUNTED 17" AFF, UON
	DOUBLE DUPLEX (QUADRUPLEX) RECEPTACLE, COLOR BY ARCHIOWNER, WITH COVER PLATE
	RED DUPLEX RECEPTACLE WITH COLOR BY ARCHIOWNER COVERPLATE CONNECTED TO EMERGENCY POWER BRANCH
	RED QUAD RECEPTACLE WITH COLOR BY ARCHIOWNER COVERPLATE, CONNECTED TO EMERGENCY POWER BRANCH
	DUPLEX RECEPTACLE WITH 2 USB 3.1 (20 VOLTS AT 5 AMPS FOR A TOTAL OF 100 WATTS OF POWER) PORTS WITH COVER PLATE
	SPECIAL PURPOSE RECEPTACLE. SEE PANEL SCHEDULES AND FLOOR PLAN NOTES FOR TYPE. RECEPTACLE SHALL BE FLUSH MOUNT. PROVIDE TWO GANG BACKBOX, PLASTER RING, AND STAINLESS STEEL PLATE.
	ROUND FLUSH FLOOR BOX WITH DUPLEX POWER, AND BRASS COVER PLATE. HUBBELL B2529 WITH SF3925 COVER.
	8 INCH FIRE RATED POKE-THROUGH HUBBELL #S1R8PTFIT1 (OR EQUIV.), PROVIDE 3/4" CONDUIT FOR POWER WITH TWO (2) #S1R8PSRZ AND 1-1/2" CONDUIT FOR DATA/IT EQUIPMENT WITH ONE (1) S1R8CSPK AND 1-1/2" CONDUIT FOR AUDIO/VIDEO WITH ONE (1) S1R8CSPM. PROVIDE TWO (2) 20A SINGLE POLE DUPLEX RECEPTACLES, AND TWO (2) TWO SPACE MODULAR RJ-45 JACK PLATES. SEE FLOOR PLANS/SPECS FOR DATA FILL AND WHETHER IT CONDUIT IS TO ABOVE ACCESSIBLE CEILING, CABLE TRAY, OR BACK TO ID/MDF/PHONE BOARD. PROVIDE FLOOR INSERT. COORDINATE FINISH OF COVER WITH ARCHITECT OR OWNER.
	TELEPHONE OUTLET: TWO GANG BOX, CONDUIT BUSHINGS, PLASTER RING, TWO (2) RJ-45 JACK MODULAR WALL PLATE, 1" CONDUIT TO ABOVE ACCESSIBLE CEILING AND TWO PLENUM RATED CAT 6 CABLES TO TELEPHONE BACKBOARD. PROVIDE EXTRA 1/2" CABLE FOR TERMINATION AT BOARD.
	TELEVISION OUTLET: FEMALE COAX JACK, WALL PLATE, 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING, PLENUM RATED RG-59U BACK TO LOCAL (WITHIN 50 FEET) SPLITTER/TAP/CATV ENTRANCE OR PLENUM RATED RG-11U TO SPLITTER/TAP/CATV ENTRANCE IF RUN IS LONGER THAN 50 FEET.
	DATA OUTLET: TWO GANG BOX, CONDUIT BUSHINGS, PLASTER RING, TWO (2) RJ-45 JACK MODULAR WALL PLATE, 1" CONDUIT TO ABOVE ACCESSIBLE CEILING AND TWO PLENUM RATED CAT 6 CABLES TO ID/MDF SWITCHES. PROVIDE EXTRA 1/2" CABLE FOR TERMINATION IN ROOM.
	COMBINATION DATA/POWER 2 GANG SPLIT BOX MOUNTED IN CEILING. PROVIDE 1" CONDUIT FROM BOX TO CABLE TRAY. PROVIDE 3/4" CONDUIT TO DUPLEX.

SWITCHES

	SINGLE POLE SWITCH, LOWERCASE SUBSCRIPT INDICATES NUMBER OF CONTROL ZONE WITHIN SWITCH.
	DOUBLE POLE SWITCH
	SWITCH 3-4-3-WAY; 4-4-4-WAY
	MULTIPLE SWITCHES, GANGED.
	KEY OPERATED SWITCH
	SWITCH WITH PILOT LIGHT WITHIN HANDLE (ON LIGHTED UNLESS OTHERWISE NOTED)
	WEATHERPROOF SWITCH
	MANUAL MOTOR-RATED SWITCH (T=THERMAL OVERLOAD SIZED FOR MOTOR)
	DIMMER SWITCH WATTAGE RATING AS NOTED. LOWERCASE SUBSCRIPT INDICATES NUMBER OF CONTROL ZONE WITHIN SWITCH. LOW VOLTAGE DIMMERS TO BE LINE VOLTAGE DIMMERS TO BE IN MIN. 2 GANG BOX. PROVIDE HEAT SPACING IN BOX FOR MULTIPLE DIMMERS. PROVIDED WITH 0-10V CLASS 2 DIMMING WIRE TO POWER PACK.
	EXPLOSION PROOF SWITCH
	TIMER SWITCH
	WALL SWITCH INFRARED (LEGRAND #PW-100 OR EQUAL)
	WALL SWITCH DUAL TECHNOLOGY SENSOR WITH PUSH BUTTON OVERRIDE AND ADJUSTABLE FIELD OF VIEW (COLOR BY ARCHITECT). "OS" INDICATES DUAL MANUAL SWITCHING. "OS" DEVICE SHALL BE PROGRAMMED TO AUTO-ON, AUTO-OFF WITHIN 20 MINS (ADJ) OF ROOM BEING VACANT. "VS" DEVICE SHALL BE PROGRAMMED TO MANUAL-ON, AUTO-OFF WITHIN 20 MINS (ADJ) OF ROOM BEING VACANT.
	DIMMABLE WALL SWITCH DUAL TECHNOLOGY SENSOR WITH PUSH BUTTON OVERRIDE AND ADJUSTABLE FIELD OF VIEW (COLOR BY ARCHITECT). "OS" DEVICE SHALL BE PROGRAMMED TO AUTO-ON, AUTO-OFF WITHIN 20 MINS OF ROOM BEING VACANT. "VS" DEVICE SHALL BE PROGRAMMED TO MANUAL-ON, AUTO-OFF WITHIN 20 MINS OF ROOM BEING VACANT.
	LOW VOLTAGE LIGHT SWITCH COMPATIBLE WITH CEILING MOUNTED MOTION SENSOR. LV2=2 BUTTON STATION- PROVIDE W/ CAT 5e CABLES.
	2 HOUR OVERRIDE PUSH-BUTTON
	CEILING MOUNTED DUAL TECHNOLOGY EXTENDED RANGE 360 DEGREE MOTION SENSOR. PHOTO-INTERGATED PHOTOCELL, SMS-INTERGATED AUX CONTACT. PROVIDE WITH A #PP20 POWER PACK FOR NON-DIMMING AND #PP160 POWER PACK FOR DIMMING

P.A./INTERCOM

	REMOTE INTERCOM STATION
	INTERCOM MASTER STATION
	SPEAKER, CEILING MOUNTED WITH BACKBOX AND GRILLE. SEE SPECIFICATIONS.
	SPEAKER, WALL MOUNTED. WG=WIRE GUARD, WP=WEATHER PROOF
	AMPLIFIER AND ASSOCIATED TUNERS, MIXERS, ETC., AS REQUIRED. REFER TO DETAILS AND SPECIFICATIONS.
	MICROPHONE JACK
	INTERCOM CALL BOX

FIRE ALARM

	FIRE ALARM CONTROL PANEL
	FIRE ALARM EXPANSION PANEL
	REMOTE FIRE ALARM ANNUNCIATOR
	AUXILIARY POWER BOOSTER PANEL
	MANUAL PULL STATION 48" AFF
	SMOKE DETECTOR; DASHED INDICATES BELOW RAISED FLOOR
	SMOKE DETECTOR, DUCT MOUNTED
	FIRE SMOKE DAMPER
	TEST SWITCH
	HEAT DETECTOR
	FLOW SWITCH
	TAMPER SWITCH
	PRESSURE SWITCH
	FIRE ALARM AUDIO-VISUAL ANNUNCIATOR; WP=WEATHER PROOF; MH=MINI HORN; WG=WIRE GUARD
	FIRE ALARM VISUAL ANNUNCIATOR; WP= WEATHER PROOF; SS=SPK/STROBE; WG=WIRE GUARD
	MAGNETIC DOOR HOLDER
	FIRE FIGHTERS PHONE JACK

SITE UTILITY

	MANHOLE NUMBER 1; CMH=INDICATES COMMUNICATIONS MANHOLE.
	PULLBOX OR HANDHOLE AS SPECIFIED ON DRAWINGS AND SPECIFICATIONS.
	POWER POLE
	POLE MOUNTED TRANSFORMERS
	TELEPHONE TERMINAL BOX
	AERIAL PRIMARY
	AERIAL SECONDARY
	AERIAL TELEPHONE; CATV = CABLE TELEVISION.
	UNDERGROUND PRIMARY
	UNDERGROUND SECONDARY
	UNDERGROUND TELEPHONE/COMMUNICATIONS
	UNDERGROUND ELECTRICAL

DISTRIBUTION

	MOLDED CASE CIRCUIT BREAKER
	DRAWOUT POWER CIRCUIT BREAKER AIR, VACUUM OR SF AS SPECIFIED.
	DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
	TRANSFORMER
	SHIELDED ISOLATION TRANSFORMER
	VOLTMETER
	AMMETER
	VOLTMETER SELECTOR SWITCH
	AMMETER SELECTOR SWITCH
	SHUNT TRIP
	CT AND METER
	GROUND ROD

ABBREVIATIONS

A	AMPERE(S)
AC	ABOVE COUNTER
A/C	AIR CONDITIONING
AIC	AMPERE INTERRUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AL, ALUM	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CFGI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CKT	CIRCUIT
COND	CONDUCTOR
CPU	CENTRAL PROCESSING UNIT
CT	CURRENT TRANSFORMER
DGP	DATA COLLECTION PANEL
DIA	DIAMETER
DC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
DWGS	DRAWINGS
EC	EMPTY CONDUIT
EF	EXHAUST FAN
EQMT	EQUIPMENT
EWG	ELECTRIC WATER COOLER
EXH	EXHAUST
EXP	EXPLOSION PROOF
EXTG	EXISTING
F/A, F.A.	FIRE ALARM
FLUOR	FLUORESCENT
FN	FULL NEUTRAL
FT	FEET, FOOT
GALV	GALVANIZED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRD	GALVANIZED RIGID STEEL
HED	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
HOA	HAND OFF AUTOMATIC
HPS	HIGH PRESSURE SODIUM
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HZ	HERTZ
ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IMC	INTERMEDIATE STEEL CONDUIT
IN	INCHES
INCND	INCANDESCENT
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KVAC	KILOVOLT AMPERE CAPACITIVE
KVAR	KILOVOLT AMPERE REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOUR
LPS	LOW PRESSURE SODIUM
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MH	METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MV	MERCURY VAPOR
MW	MICROWAVE
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NF	NONFUSIBLE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
OH	OVERHEAD
P	POLE
PA	PUBLIC ADDRESS
PB	PUSHBUTTON
PBX	PRIVATE BUILDING EXCHANGE
PC	PULL CHAIN
P/C	PHOTO CELL
PDP	POWER DISTRIBUTION PANEL
PH, Ø	PHASE
PNL	PANELBOARD
PR	PAIR
PSI	POUNDS PER SQUARE INCH
PWR	POWER
QUAD	QUAD RECEPTACLE
REFR	REFRIGERATOR
S	SECURITY
S.C.	SPLIT CIRCUIT
SCC	STATUS COMMAND CENTER
SN	SOLID NEUTRAL
SPD	SURGE PROTECTION DEVICE
SOFT, Φ	SQUARE FOOT
SW	SWITCH
SWBD	SWITCHBOARD
TC	TIME CLOCK
TELE	TELEPHONE
TSTAT	THERMOSTAT
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTABLE POWER SUPPLY
V	VOLT(S)
VEND	VENDING
VFD	VARIABLE FREQUENCY DRIVE
VP	VAPOR PROOF
W	WIRE - WATT(S)
WP	WEATHERPROOF
XFMR	TRANSFORMER
XPD	TRANSPONDER
Y	WYE
Z	IMPEDANCE
Δ	DELTA
1P	ONE POLE
2P	TWO POLE
3P	THREE POLE



NOT FOR CONSTRUCTION

GVI GOMEZ VAZQUEZ INTERNATIONAL

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ISSUED SETS

Date	Description

REVISIONS

No.	Date	Description
01	05/01/2023	BIDDING SET

Hemisfair Sports Court Pavilion  
Hemisfair  
San Antonio, TX. 78205

PROFESSIONAL SEAL

PRELIMINARY REVIEW

NOT FOR REGULATORY APPROVAL, PERMIT OR CONSTRUCTION  
AARON T. LOVELOCK  
P.E. REG. NO. 145763  
MAY 1, 2023

SHEET NAME

ELECTRICAL  
SYMBOLS AND  
ABBREVIATIONS

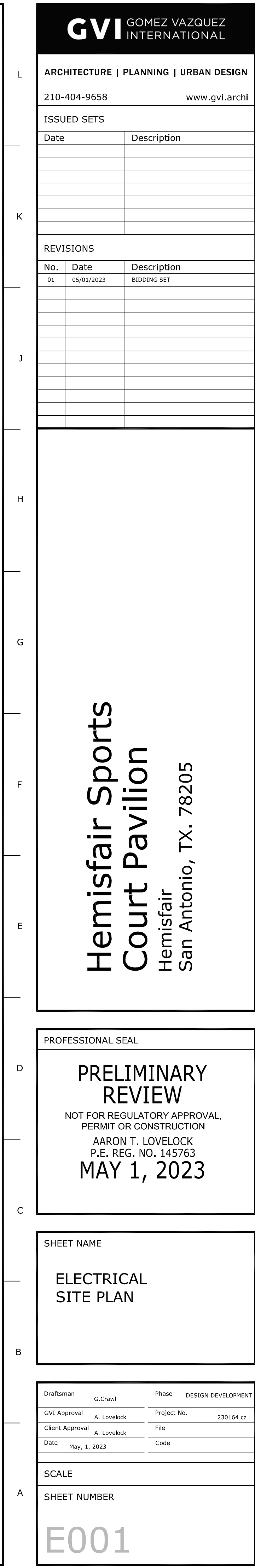
Draftsman	G.Crawf	Phase	DESIGN DEVELOPMENT
GVI Approval	A. Lovelock	Project No.	230164 cz
Client Approval	A. Lovelock	File	
Date	May, 1, 2023	Code	

SCALE

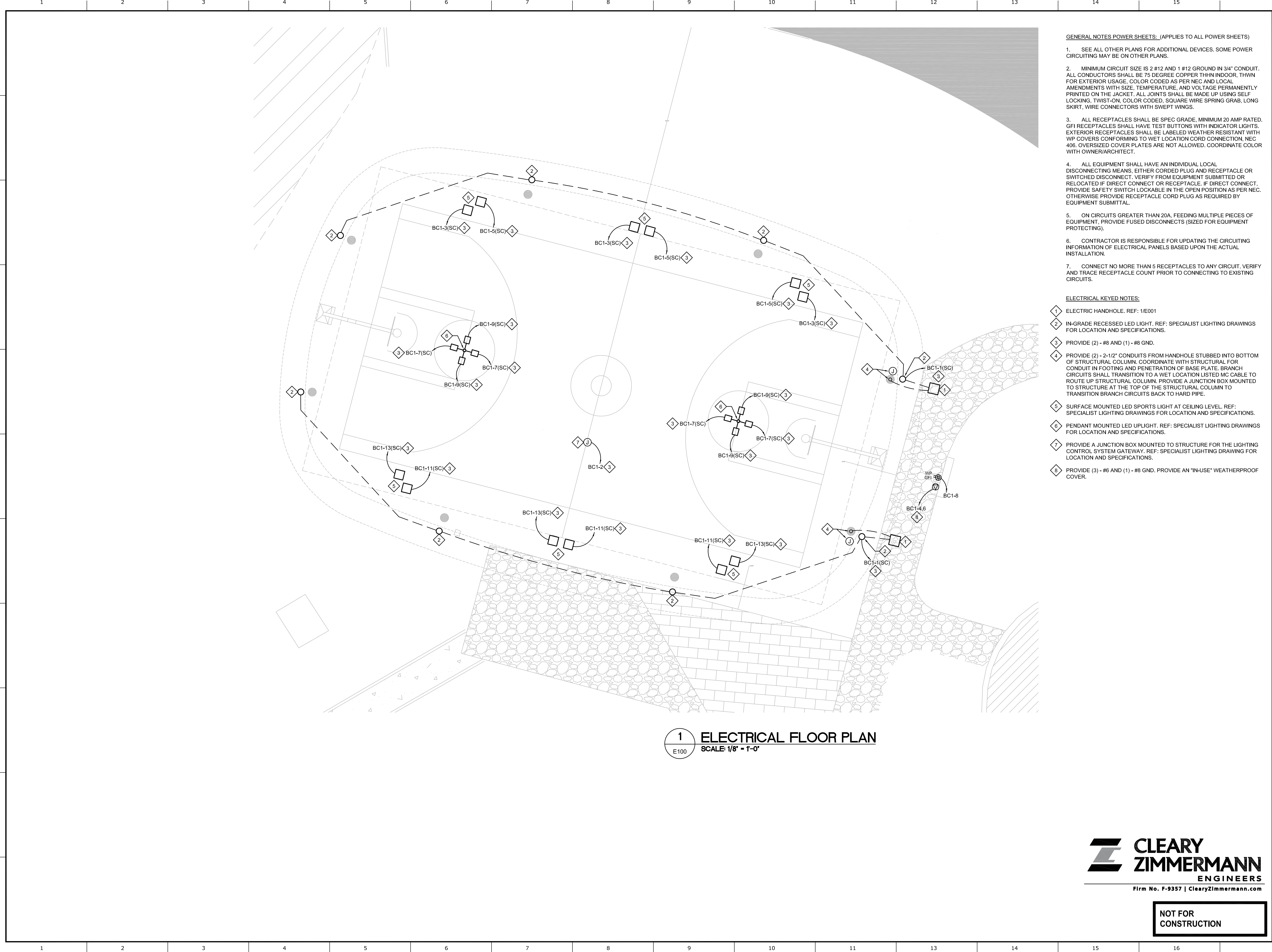
SHEET NUMBER

E000









- GENERAL NOTES POWER SHEETS:** (APPLIES TO ALL POWER SHEETS)
- SEE ALL OTHER PLANS FOR ADDITIONAL DEVICES. SOME POWER CIRCUITING MAY BE ON OTHER PLANS.
  - MINIMUM CIRCUIT SIZE IS 2 #12 AND 1 #12 GROUND IN 3/4" CONDUIT. ALL CONDUCTORS SHALL BE 75 DEGREE COPPER THHN INDOOR, THWN FOR EXTERIOR USAGE, COLOR CODED AS PER NEC AND LOCAL AMENDMENTS WITH SIZE, TEMPERATURE, AND VOLTAGE PERMANENTLY PRINTED ON THE JACKET. ALL JOINTS SHALL BE MADE UP USING SELF LOCKING, TWIST-ON, COLOR CODED, SQUARE WIRE SPRING GRAB, LONG SKIRT, WIRE CONNECTORS WITH SWEEP WINGS.
  - ALL RECEPTACLES SHALL BE SPEC GRADE, MINIMUM 20 AMP RATED. GFI RECEPTACLES SHALL HAVE TEST BUTTONS WITH INDICATOR LIGHTS. EXTERIOR RECEPTACLES SHALL BE LABELED WEATHER RESISTANT WITH WP COVERS CONFORMING TO WET LOCATION CORD CONNECTION, NEC 406. OVERSIZED COVER PLATES ARE NOT ALLOWED. COORDINATE COLOR WITH OWNER/ARCHITECT.
  - ALL EQUIPMENT SHALL HAVE AN INDIVIDUAL LOCAL DISCONNECTING MEANS, EITHER CORDED PLUG AND RECEPTACLE OR SWITCHED DISCONNECT. VERIFY FROM EQUIPMENT SUBMITTED OR RELOCATED IF DIRECT CONNECT OR RECEPTACLE. IF DIRECT CONNECT, PROVIDE SAFETY SWITCH LOCKABLE IN THE OPEN POSITION AS PER NEC. OTHERWISE PROVIDE RECEPTACLE CORD PLUG AS REQUIRED BY EQUIPMENT SUBMITTAL.
  - ON CIRCUITS GREATER THAN 20A, FEEDING MULTIPLE PIECES OF EQUIPMENT, PROVIDE FUSED DISCONNECTS (SIZED FOR EQUIPMENT PROTECTING).
  - CONTRACTOR IS RESPONSIBLE FOR UPDATING THE CIRCUITING INFORMATION OF ELECTRICAL PANELS BASED UPON THE ACTUAL INSTALLATION.
  - CONNECT NO MORE THAN 5 RECEPTACLES TO ANY CIRCUIT. VERIFY AND TRACE RECEPTACLE COUNT PRIOR TO CONNECTING TO EXISTING CIRCUITS.

- ELECTRICAL KEYED NOTES:**
- ELECTRIC HANDHOLE. REF: 1/E001
  - IN-GRADE RECESSED LED LIGHT. REF: SPECIALIST LIGHTING DRAWINGS FOR LOCATION AND SPECIFICATIONS.
  - PROVIDE (2) - #8 AND (1) - #8 GND.
  - PROVIDE (2) - 2-1/2" CONDUITS FROM HANDHOLE STUBBED INTO BOTTOM OF STRUCTURAL COLUMN. COORDINATE WITH STRUCTURAL FOR CONDUIT IN FOOTING AND PENETRATION OF BASE PLATE. BRANCH CIRCUITS SHALL TRANSITION TO A WET LOCATION LISTED MC CABLE TO ROUTE UP STRUCTURAL COLUMN. PROVIDE A JUNCTION BOX MOUNTED TO STRUCTURE AT THE TOP OF THE STRUCTURAL COLUMN TO TRANSITION BRANCH CIRCUITS BACK TO HARD PIPE.
  - SURFACE MOUNTED LED SPORTS LIGHT AT CEILING LEVEL. REF: SPECIALIST LIGHTING DRAWINGS FOR LOCATION AND SPECIFICATIONS.
  - PENDANT MOUNTED LED UPLIGHT. REF: SPECIALIST LIGHTING DRAWINGS FOR LOCATION AND SPECIFICATIONS.
  - PROVIDE A JUNCTION BOX MOUNTED TO STRUCTURE FOR THE LIGHTING CONTROL SYSTEM GATEWAY. REF: SPECIALIST LIGHTING DRAWING FOR LOCATION AND SPECIFICATIONS.
  - PROVIDE (3) - #6 AND (1) - #8 GND. PROVIDE AN "IN-USE" WEATHERPROOF COVER.



NOT FOR  
CONSTRUCTION

Date	Description

No.	Date	Description
01	05/01/2023	BIDDING SET

Hemisfair Sports  
Court Pavilion  
Hemisfair  
San Antonio, TX. 78205

PRELIMINARY  
REVIEW

NOT FOR REGULATORY APPROVAL,  
PERMIT OR CONSTRUCTION

AARON T. LOVELOCK  
P.E. REG. NO. 145763

MAY 1, 2023

ELECTRICAL  
FLOOR PLAN

Draftsman	G.Crawf	Phase	DESIGN DEVELOPMENT
GVI Approval	A. Lovelock	Project No.	230164 cz
Client Approval	A. Lovelock	File	
Date	May, 1, 2023	Code	

E100



ELECTRICAL FEEDER SCHEDULE		
MARK	CONDUIT	CONDUCTORS
1020	1 - 1/2" Conduit	2 - #12 and 1 - #12 Ground
1030	1 - 3/4" Conduit	2 - #10 and 1 - #10 Ground
1050	1 - 3/4" Conduit	2 - #8 and 1 - #8 Ground
1065	1 - 3/4" Conduit	2 - #6 and 1 - #8 Ground
1085	1 - 1" Conduit	2 - #4 and 1 - #8 Ground
1100	1 - 1" Conduit	2 - #3 and 1 - #6 Ground
1115	1 - 1-1/4" Conduit	2 - #2 and 1 - #6 Ground
2020	1 - 1/2" Conduit	3 - #12 and 1 - #12 Ground
2030	1 - 3/4" Conduit	3 - #10 and 1 - #10 Ground
2050	1 - 3/4" Conduit	3 - #8 and 1 - #8 Ground
2065	1 - 3/4" Conduit	3 - #6 and 1 - #8 Ground
2085	1 - 1" Conduit	3 - #4 and 1 - #8 Ground
2100	1 - 1-1/4" Conduit	3 - #3 and 1 - #6 Ground
2115	1 - 1-1/4" Conduit	3 - #2 and 1 - #6 Ground
3020	1 - 3/4" Conduit	4 - #12 and 1 - #12 Ground
3030	1 - 3/4" Conduit	4 - #10 and 1 - #10 Ground
3050	1 - 3/4" Conduit	4 - #8 and 1 - #8 Ground
3065	1 - 1" Conduit	4 - #6 and 1 - #8 Ground
3085	1 - 1-1/4" Conduit	4 - #4 and 1 - #8 Ground
3100	1 - 1-1/4" Conduit	4 - #3 and 1 - #6 Ground
3115	1 - 1-1/4" Conduit	4 - #2 and 1 - #6 Ground

SY0020	1 - 3/4" Conduit	4 - #12 and 1 - #8 Ground
SY0030	1 - 3/4" Conduit	4 - #10 and 1 - #8 Ground
SY0050	1 - 3/4" Conduit	4 - #8 and 1 - #8 Ground
SY0065	1 - 1" Conduit	4 - #6 and 1 - #8 Ground
SY0085	1 - 1-1/4" Conduit	4 - #4 and 1 - #8 Ground
SY0100	1 - 1-1/4" Conduit	4 - #3 and 1 - #6 Ground
SY0115	1 - 1-1/4" Conduit	4 - #2 and 1 - #6 Ground
SY0130	1 - 1-1/2" Conduit	4 - #1 and 1 - #6 Ground
SY0150	1 - 2" Conduit	4 - #1/0 and 1 - #6 Ground
SY0175	1 - 2" Conduit	4 - #2/0 and 1 - #4 Ground
SY0200	1 - 2" Conduit	4 - #3/0 and 1 - #4 Ground
SY0230	1 - 2-1/2" Conduit	4 - #4/0 and 1 - #2 Ground
SY0255	1 - 3" Conduit	4 - #250 kcmil and 1 - #2 Ground
SY0310	1 - 3" Conduit	4 - #350 kcmil and 1 - #2 Ground
SY0335	1 - 3-1/2" Conduit	4 - #400 kcmil and 1 - #2 Ground
SY0380	1 - 3-1/2" Conduit	4 - #500 kcmil and 1 - #2 Ground
SY0400	2 - 2" Conduit	EACH with 4 - 3/0 and 1 - #2 Ground
SY0420	1 - 4" Conduit	4 - #600 kcmil and 1 - #2 Ground
SY0460	2 - 2-1/2" Conduits	EACH with 4 - #4/0 and 1 - #2 Ground
SY0510	2 - 2-1/2" Conduits	EACH with 4 - #250 kcmil and 1 - #1 Ground
SY0570	2 - 2-1/2" Conduits	EACH with 4 - #300 kcmil and 1 - #1 Ground
SY0620	2 - 3" Conduits	EACH with 4 - #350 kcmil and 1 - #1/0 Ground
SY0670	2 - 3" Conduits	EACH with 4 - #400 kcmil and 1 - #1/0 Ground
SY0760	2 - 3-1/2" Conduits	EACH with 4 - #500 kcmil and 1 - #1/0 Ground
SY0765	3 - 2-1/2" Conduits	EACH with 4 - #250 kcmil and 1 - #1/0 Ground
SY0800	4 - 2" Conduits	EACH with 4 - #3/0 kcmil and 1 - #2/0 Ground
SY0840	2 - 4" Conduits	EACH with 4 - #600 kcmil and 1 - #2/0 Ground
SY0855	3 - 2-1/2" Conduits	EACH with 4 - #300 kcmil and 1 - #2/0 Ground
SY1005	3 - 3" Conduits	EACH with 4 - #400 kcmil and 1 - #3/0 Ground
SY1140	3 - 3-1/2" Conduits	EACH with 4 - #500 kcmil and 1 - #3/0 Ground
SY1260	3 - 4" Conduits	EACH with 4 - #600 kcmil and 1 - #4/0 Ground
SY1520	4 - 4" Conduits	EACH with 4 - #500 kcmil and 1 - #4/0 Ground
SY1680	4 - 4" Conduits	EACH with 4 - #600 kcmil and 1 - #250 kcmil Ground
SY2100	5 - 4" Conduits	EACH with 4 - #600 kcmil and 1 - #350 kcmil Ground
SY2520	6 - 4" Conduits	EACH with 4 - #600 kcmil and 1 - #400 kcmil Ground
SY3040	8 - 4" Conduits	EACH with 4 - #500 kcmil and 1 - #500 kcmil Ground
SY4030	6 - 6" Conduits	EACH with 8 - #600 kcmil and 1 - #700 kcmil Ground
SY4200	10 - 4" Conduits	EACH with 4 - #600 kcmil and 1 - #700 kcmil Ground
SY5040	12 - 4" Conduit	EACH with 4 - #600 kcmil and 1 - #700 kcmil Ground

SD0020	1 - 3/4" Conduit	3 - #12 and 1 - #8 Ground
SD0030	1 - 3/4" Conduit	3 - #10 and 1 - #8 Ground
SD0050	1 - 3/4" Conduit	3 - #8 and 1 - #8 Ground
SD0065	1 - 3/4" Conduit	3 - #6 and 1 - #8 Ground
SD0085	1 - 1" Conduit	3 - #4 and 1 - #8 Ground
SD0100	1 - 1-1/4" Conduit	3 - #3 and 1 - #6 Ground
SD0115	1 - 1-1/4" Conduit	3 - #2 and 1 - #6 Ground
SD0130	1 - 1-1/2" Conduit	3 - #1 and 1 - #6 Ground
SD0150	1 - 1-1/2" Conduit	3 - #1/0 and 1 - #6 Ground
SD0175	1 - 2" Conduit	3 - #2/0 and 1 - #4 Ground
SD0200	1 - 2" Conduit	3 - #3/0 and 1 - #4 Ground
SD0230	1 - 2" Conduit	3 - #4/0 and 1 - #2 Ground
SD0255	1 - 2-1/2" Conduit	3 - #250 kcmil and 1 - #2 Ground
SD0310	1 - 3" Conduit	3 - #350 kcmil and 1 - #2 Ground
SD0380	1 - 3" Conduit	3 - #500 kcmil and 1 - #1/0 Ground
SD0420	1 - 3" Conduit	3 - #600 kcmil and 1 - #1/0 Ground
SD0460	2 - 2" Conduits	EACH with 3 - 4/0 and 1 - #2 Ground
SD0510	2 - 2-1/2" Conduits	EACH with 3 - #250 kcmil and 1 - #1 Ground
SD0570	2 - 2-1/2" Conduits	EACH with 3 - #300 kcmil and 1 - #1 Ground
SD0620	2 - 3" Conduits	EACH with 3 - #350 kcmil and 1 - #1/0 Ground
SD0670	2 - 3" Conduits	EACH with 3 - #400 kcmil and 1 - #1/0 Ground
SD0760	2 - 3" Conduits	EACH with 3 - #500 kcmil and 1 - #1/0 Ground
SD0855	3 - 2-1/2" Conduits	EACH with 3 - #300 kcmil and 1 - #2/0 Ground
SD1005	3 - 3" Conduits	EACH with 3 - #400 kcmil and 1 - #2/0 Ground
SD1140	3 - 3-1/2" Conduits	EACH with 3 - #500 kcmil and 1 - #3/0 Ground
SD1260	3 - 4" Conduits	EACH with 3 - #600 kcmil and 1 - #4/0 Ground
SD1520	4 - 3" Conduits	EACH with 3 - #500 kcmil and 1 - #4/0 Ground
SD1680	4 - 4" Conduits	EACH with 3 - #600 kcmil and 1 - #250 kcmil Ground

**Notes:**

1. Wet location (underground or outdoors) use THWN. Otherwise THHN.
2. Conduit types; underground - schedule 40 PVC; indoors - EMT; outdoor exposed - IMC Utility - riser poles (follow Utility guidelines or minimum schedule 80).
3. Provide transitions to conduit changes prior to different environment (ex. Transition from IMC to EMT prior to penetrating walls to feeder).
4. Motor Connections shall be flexible non-metallic conduit for water equipment
5. All conduit penetrations in rated walls shall be firestopped.
6. See drawings for any special requirements.

## NEW SERVICE LOAD ANALYSIS

PROJECT:	HEMISPHERE BASKETBALL COURT		
PROJECT NUMBER:	230164		
SQUARE FOOTAGE:	70000		
NEW DISTRIBUTION:		208	VOLT

TYPE	NEW	NEW	
	<u>CONNECTED</u>	<u>DEMAND</u>	
EQUIPMENT:	60	60	VA
RECEPTACLES:	6600	6600	VA
LIGHTING:	5296	6620	VA
AC/HEATING:	0	0	VA
CONTINUOUS MOTORS:	0	0	VA
OTHERS:	0	0	VA
TOTAL	11956	13280	VA
	33	37	Amps
SERVICE VOLTAGE:	208	VOLT	
SCHEDULED SERVICE AMPACITY:	200	AMP	

## 20 AMP CIRCUIT VOLTAGE DROP

120V 20 Amp		MAX ONE WAY LENGTH OF CIRCUIT
CONDUCTOR	CONDUIT	
2 - #12 and 1 - #12 GRD	3/4" C	100 Feet
2 - #10 and 1 - #10 GRD	3/4" C	160 Feet
2 - #8 and 1 - #8 GRD	3/4" C	260 Feet
2 - #6 and 1 - #6 GRD	1" C	400 Feet
2 - #4 and 1 - #4 GRD	1" C	650 Feet
REFER TO NOTES ON DRAWINGS GREATER THAN 650 FEET		

277V 20 Amp		MAX ONE WAY LENGTH OF CIRCUIT
CONDUCTOR	CONDUIT	
2 - #12 and 1 - #12 GRD	3/4" C	220 Feet
2 - #10 and 1 - #10 GRD	3/4" C	360 Feet
2 - #8 and 1 - #8 GRD	1" C	600 Feet
REFER TO NOTES ON DRAWINGS GREATER THAN 600 FEET		

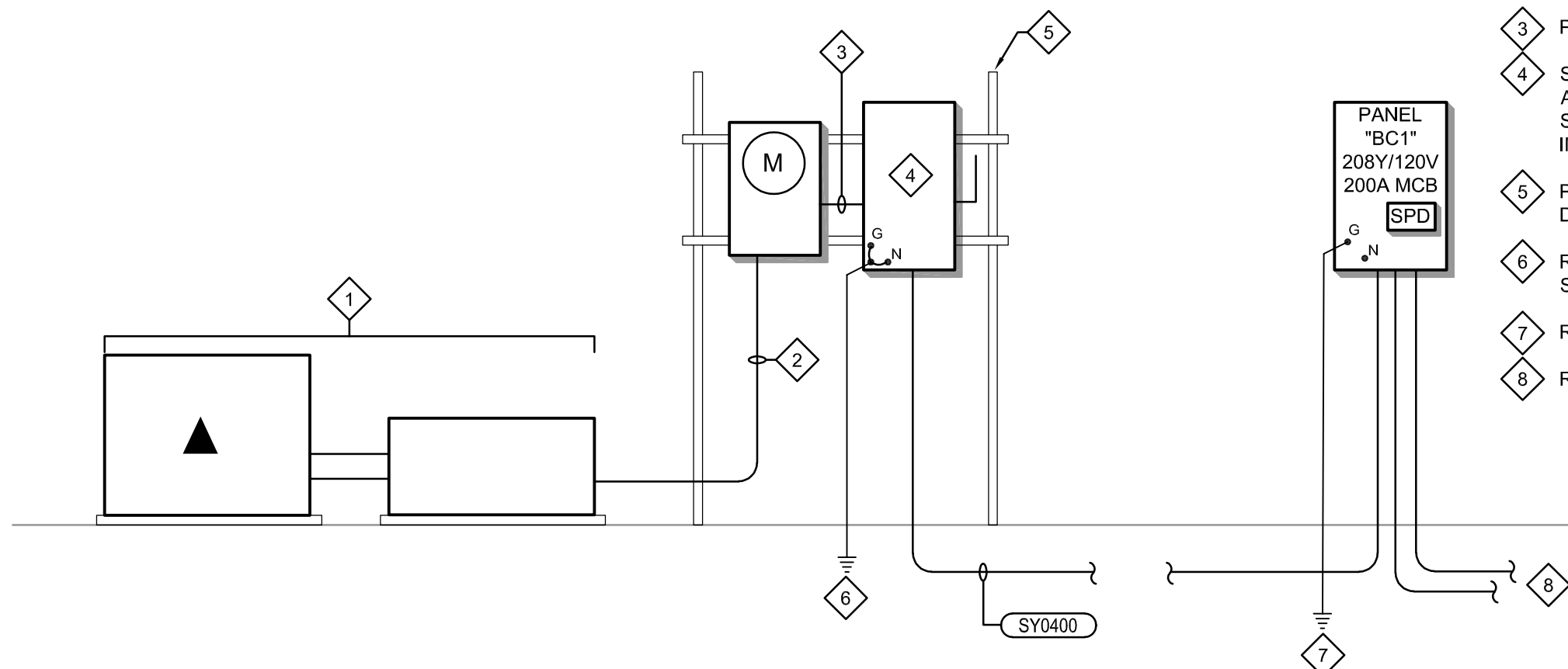
Notes:

- 1) CONTRACTOR SHALL FOLLOW CIRCUIT VOLTAGE DROP CHART DISTANCE FOR SIZING CIRCUITING. CONTRACTOR SHALL UPSIZE CONDUIT AND WIRE BASED UPON ACTUAL FEEDER DISTANCE INSTALLED.
- 2) SEE FEEDER SCHEDULE FOR ADDITIONAL FEEDER SIZES.
- 3) PULL IN NYLON PULL CORD WITH CONDUCTORS UP TO 300 FEET, PULL IN MULE TAPE WITH CONDUCTORS OVER 300 FEET.
- 4) CHART CONDUIT SIZES ARE BASED UPON SINGLE CIRCUITS. CONTRACTOR SHALL UPSIZE CONDUIT AS PER NEC FOR MULTIPLE CIRCUITS. WIRE GAUGE SHALL REMAIN AS PER CHART.

		PANEL BC1																													
LOCATION:		EXTERNAL		VOLTAGE:		208/120		V		KAIC:		20		BUSSING SHALL BE FULLY RATED																	
MOUNTING:		SURFACE		PHASE:		3		P / 4W		CODES:		0-EQPT, 1-RCPT, 2-LTG, 3-A/C, 4-HEAT																			
ENCLOSURE:		NEMA 3R		STYLE:		PRL2X		BUSSING:		225		A		5-CONTINUOUS MOTORS, 6-LRGST MOTOR																	
BRKR MTG:		BOLT-N		(REF: EATON)		MCB:		200		A		ACCESSORIES:		GROUND BUS, 30 SPACE, INTEGRAL SPD																	
BREAKERS:		SERIES RATED, 75 DEGREE TERMINALS		MLO:		A								GF = CLASS A GROUND FAULT CKT INT CB																	
CODE		BRKR		CIRCUIT USE				CKT		LOAD		A		B		G		LOAD		CKT		CIRCUIT USE				BRKR		CODE			
2		20/1		LIGHTS - BASKETBALL COURT				1		144		X						60		2		LIGHTING CONTROL SYSTEM - COURT				20/1		0			
2		20/1		LIGHTS - BASKETBALL COURT				3		858		X						3,120		4		BASKETBALL COURT NEMA 14-50R				50/2GF		1			
2		20/1		LIGHTS - BASKETBALL COURT				5		858		X						3,120		6								1			
2		20/1		LIGHTS - BASKETBALL COURT				7		860		X						360		8		RECEPTS - BASKETBALL COURT				20/1		1			
2		20/1		LIGHTS - BASKETBALL COURT				9		860		X								10		BUSSED SPACE						-/1			
2		20/1		LIGHTS - BASKETBALL COURT				11		858		X								12		BUSSED SPACE						-/1			
2		20/1		LIGHTS - BASKETBALL COURT				13		858		X								14		BUSSED SPACE						-/1			
		-/1		BUSSED SPACE				15				X								16		BUSSED SPACE						-/1			
		-/1		BUSSED SPACE				17				X								18		BUSSED SPACE						-/1			
		-/1		BUSSED SPACE				19				X								20		BUSSED SPACE						-/1			
								21				X								22											
								23				X								24											
				BUS INTEGRATED SPD (NOTE 1)				25		X										26		BUS INTEGRATED SPD (NOTE 1)									
								27				X										28									
								29				X										30									

NOTES:

1. PROVIDE A 100KA/PHASE "ALL-MODES" BUS INTEGRATED SURGE PROTECTION DEVICE. MOUNT IN SPACE CLOSEST TO MAIN LUGS.



### ELECTRICAL KEYED NOTES

- 1 EXISTING CPS ENERGY TAP BOX AND PAD MOUNTED TRANSFORMER TO REMAIN.
- 2 PROVIDE (4) - #3/0 Cu IN (1) - 2" CONDUIT FROM TAP BOX TO NEW CPS ENERGY METER. COORDINATE WITH CPS ENERGY AND PROVIDE METER CAN.
- 3 PROVIDE (2) - 2" CONDUITS EACH WITH (4) - #3/0 Cu.
- 4 SERVICE DISCONNECT SWITCH. PROVIDE A 200 AFUSIBLE/3P-SNINEMA 3R SERVICE RATED DISCONNECT SWITCH. PROVIDE 200A CURRENT LIMITING FUSES. MINIMUM INTERRUPTING CURRENT RATING: 50 KVA AT 480 Vac.
- 5 PROVIDE AN EQUIPMENT RACK TO MOUNT METER AND DISCONNECT SWITCH. REF: DETAIL 1/E601.
- 6 REF: DETAIL 4/E601 FOR GROUNDING AND BONDING AT SERVICE.
- 7 REF: DETAIL 5/E601 FOR GROUNDING.
- 8 REF: E001 AND E100 FOR BRANCH CIRCUIT CONDUITS.

## 1 ELECTRICAL ONE-LINE DIAGRAM

**NOT TO SCALE**

PANEL BC1

LOCATION:	EXTERNAL	VOLTAGE:	208/120	V	KAIC:	20	BUSSING SHALL BE FULLY RATED
MOUNTING:	SURFACE	PHASE:	3	P / 4W	CODES:	0=EQPT, 1=RCPT, 2=LTG, 3=A/C, 4=HEAT	
ENCLOSURE:	NEMA 3R	STYLE:	PRL2X	BUSSING:	225	A	5=CONTINUOUS MOTORS, 6=LARGST MOTOR
BRKR MTG:	BOLT-ON	(REF: EATON)	MCB:	200	A	ACCESSORIES:	CLOUND BUS, 30 SPACE, INTEGRAL SPD
	SERIES RATED, 75 DEGREE	TERMINALS	MLO:	A			GF = GRASS 10 CROUND FAULT CKT INT CB

CODE	BRKR	CIRCUIT USE	CKT	LOAD	A	B	G	LOAD	CKT	CIRCUIT USE	BRKR	CODE
2	20/1	LIGHTS - BASKETBALL COURT	1	144	X			60	2	LIGHTING CONTROL SYSTEM - COURT	20/1	0
2	20/1	LIGHTS - BASKETBALL COURT	3	858	X			3,120	4	BASKETBALL COURT NEMA 14-50R	50/2GF	1
2	20/1	LIGHTS - BASKETBALL COURT	5	858		X		3,120	6			1
2	20/1	LIGHTS - BASKETBALL COURT	7	860	X			360	8	RECEPTS - BASKETBALL COURT	20/1	1
2	20/1	LIGHTS - BASKETBALL COURT	9	860	X				10	BUSSED SPACE	-/1	
2	20/1	LIGHTS - BASKETBALL COURT	11	858		X			12	BUSSED SPACE	-/1	
2	20/1	LIGHTS - BASKETBALL COURT	13	858	X				14	BUSSED SPACE	-/1	
	-/1	BUSSED SPACE	15		X				16	BUSSED SPACE	-/1	
	-/1	BUSSED SPACE	17			X			18	BUSSED SPACE	-/1	
	-/1	BUSSED SPACE	19		X				20	BUSSED SPACE	-/1	
			21		X				22			
			23			X			24			
		BUS INTEGRATED SPD (NOTE 1)	25		X				26	BUS INTEGRATED SPD (NOTE 1)		
			27		X				28			
			29			X			30			

	EOPT VA	RCPT VA	LTG VA	AC/HEAT VA	MOTORS	CONN VA	FTL VA	PANEL VA	PHASE AMP		
PHASE A	60	360	1862	0	0	2282		2748	23		
PHASE B	0	3120	1718	0	0	4838		5268	44		
PHASE C	0	3120	1716	0	0	4836		5265	44		
TOTAL	60	6600	5296	0	0	11956		13280			
PANEL DESIGN KVA:	13.28							PANEL SUBTOTAL:	37	AMPS	
RESERVE CAPACITY KVA:	2.66							RESERVE CAPACITY:	6	AMPS	
TOTAL KVA:	15.94							PANEL DESIGN CURRENT:	42	AMPS	

NOTES:

1. PROVIDE A 100KA/PHASE "ALL-MODES" BUS INTEGRATED SURGE PROTECTION DEVICE. MOUNT IN SPACE CLOSEST TO MAIN LUGS.

**GVI** GOMEZ VAZQUEZ  
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## ISSUED SETS

Date	Description

## REVISIONS

[illegible]

Hemisfair Sports  
Court Pavilion  
Hemisfair  
San Antonio, TX. 78205

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San Antonio, TX. 78205

PROFESSIONAL SEAL

PRELIMINARY  
REVIEW

NOT FOR REGULATORY APPROVAL,  
PERMIT OR CONSTRUCTION

AARON T. LOVELOCK  
D.E. REG. NO. 145363

P.E. REG. NO. 145763  
MAY 1 2023

MAY 1, 2023

SHEET NAME

# ELECTRICAL ONE-LINE DIAGRAM

Draftsman	G.Crawf	Phase	DESIGN DEVELOPMENT
GVI Approval	A. Lovelock	Project No.	230164 cz
Client Approval	A. Lovelock	File	
Date	May, 1, 2023	Code	

SCALE

SHEET NUMBER

**NOT FOR  
CONSTRUCTION**

E401



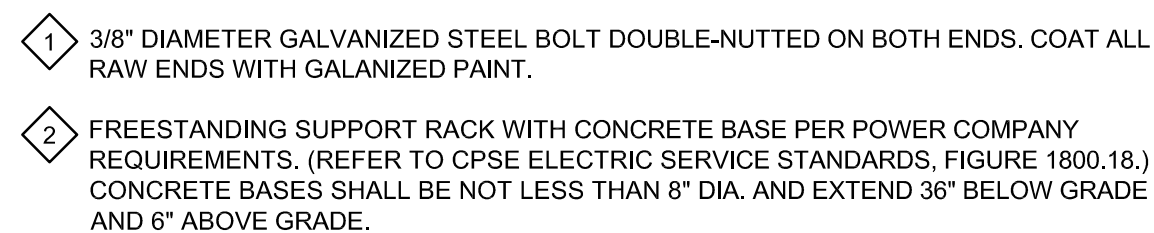


Diagram illustrating the cross-section of a trench installation, showing the layers and materials used for the trench and surrounding areas.

**Labels and Dimensions:**

- EXISTING SODDED AREA** (Left side)
- BELOW SODDED AREAS (TYPICAL)** (Top left)
- BELOW FLEXIBLE PAVEMENT (TYPICAL)** (Top right)
- TACK COAT** (Between pavement and concrete)
- HOT MIX ASPHALTIC OR CONCRETE** (Right side)
- SAW CUT EDGE** (Right side)
- EXISTING BASE COURSE** (Right side)
- 12" CLASS "C" CONCRETE 2,000 P.S.I. COMPRESSIVE STRENGTH** (Right side)
- BACKFILL COMPACTED IN 6" LAYERS TO 90% OF MAX DENSITY.** (Right side)
- PROVIDE MAGNETIC MARKING TAPE** (Right side)
- PROVIDE LATERAL SUPPORT TO PREVENT CONDUIT RACKS FROM RAISING DURING BACKFILL.** (Right side)
- PROVIDE 3" SAND ALL AROUND.** (Right side)
- PROVIDE SELF LOCKING CONDUIT SUPPORT FOR ALL CONDUIT IN TRENCH. PROVIDE SUPPORT AT THE START AND END OF TRENCH AND SPACE PER NEC INSIDE THE TRENCH. TIE WRAP RACKS TOGETHER AT START AND END OF TRENCH THEN EVERY 25 FEET WITHIN TRENCH.** (Right side)
- SEE PLANS FOR SIZES AND NUMBER OF CONDUITS. PROVIDE PULL TAPE IN AND CAP ALL EMPTY CONDUITS.** (Bottom right)
- MIN. 18" EARTH BETWEEN COMMUNICATIONS CONDUIT AND POWER, MINIMUM 48" BETWEEN PARALLEL DUCTBANKS** (Bottom left)
- 24" MIN. DEPTH ALL CONDUITS** (Left side)
- 4" MIN.** (Left side, near top)
- TOP SOIL** (Top left)
- TOP 8" OF SUBGRADE COMPACTED TO TO 95% OF MAX. DENSITY** (Left side)
- 3" MIN.** (Bottom left, between ductbanks)
- 4" MIN.** (Bottom left, between ductbanks)
- 3" MIN.** (Bottom left, between ductbanks)
- 3"** (Bottom left, total width)
- 7.5"** (Bottom left, height)
- 3"** (Bottom left, height)
- 7.5"** (Bottom left, height)

APPLIES TO ALL BURIED CONDUITS.  
BACKFILL APPLIES TO ALL AREAS NOT  
JUST ROADWAYS OR ADJACENT TO  
ROADWAY.

The diagram illustrates the grounding system for a building. Key components and connections include:

- Service Conductors:** Labeled "SERVICE CONDUCTORS SEE ONE LINE FOR SIZE", they enter the building from the top.
- Main Disconnect:** A switch mechanism located inside the building's electrical enclosure.
- Neutral Bus:** A horizontal bar within the enclosure where the neutral conductors are connected.
- Ground Bus:** Another horizontal bar within the enclosure, connected to the neutral bus by a "1) - #2 REMOVABLE COPPER BONDING JUMPER STRAP".
- Grounding Electrode:** A "#3/0 COPPER GROUNDING ELECTRODE CONDUCTOR" is shown exothermically welded to a "COPPER GROUND ROD/S" (buried 5 inches or less) and connected to the ground bus.
- Service Ground Field:** A triangular arrangement of three "#3/0" conductors forming a mesh for grounding.
- Other Connections:**
  - "#4 TO CONCRETE ENCASED ELECTRODE, MINIMUM 20' CAN BE BONDED TO SLAB REBAR"
  - "#3/0 BONDED TO WATER PIPE"
  - "RUN IN 1\" CONDUIT TO BUILDING"
  - "EXOTHERMICALLY BONDED TO COLUMN FOOTING STEEL"
  - "#3/0 COPPER EXOTHERMICALLY BONDED TO BUILDING STRUCTURAL STEEL"
  - "CAD WELD CONDUCTORS TO GROUND RODS. BURY RODS AS PER NEC."
  - "10' COPPER GROUND ROD SPACED 6' APART (TYP., 3)"
  - "COPPER BONDING JUMPER TO GEAR"

FLANGED OVERLAPPING CONCRETE COVER

SS BOLTS

SS DROP IN CONCRETE ANCHORS (TYP.)

SS CAP SCREW W/SS WASHER

3" SADDLE (NON-METALLIC) (UNDERGROUND DEVICES 3HDS OR EQUIV.) (TYP 2).

14" LONG ARM (UNDERGROUND DEVICES RA14 OR EQUIV.)

SLOPED TO DRAIN

GALVANIZED DRAIN COVER

DRAIN

18" DEEP PEA GRAVEL BELOW DRAIN

NON METALLIC HEAVY DUTY STANCHION (UNDERGROUND DEVICES OR 36 OR EQUIV.) MOUNT AS PER MANUFACTURER SPACING REQUIREMENTS BETWEEN HANGERS

PROVIDE 2 COMPLETE STANCHION ASSEMBLES 2 SIDES HANDHOLE.

LxWxH CONCRETE HANDHOLE

GRADE

Diagram illustrating the grounding connections for a service disconnect enclosure:

- SERVICE CONDUCTORS** SEE ONE LINE FOR SIZE
- MAIN DISCONNECT**
- NEUTRAL BUS**
- GROUND BUS**
- COPPER BONDING JUMPER TO GEAR**
- #4 TO CONCRETE ENCASED ELECTRODE. MINIMUM 20" CAN BE BONDED TO SLAB REBAR**
- #3/0 BONDED TO WATER PIPE**
- RUN IN 1" CONDUIT TO BUILDING**
- EXOTHERMICALLY BONDED TO COLUMN FOOTING STEEL**
- #3/0 COPPER EXOTHERMICALLY BONDED TO BUILDING STRUCTURAL STEEL**
- #3/0 COPPER GROUNDING ELECTRODE CONDUCTOR EXOTHERMICALLY WELDED TO COPPER GROUND ROD/S SIZE FOR 5 OHMS OR LESS.**
- CAD WELD CONDUCTORS TO GROUND RODS. BURY RODS AS PER NEC.**
- SERVICE GROUND FIELD**
- 10' COPPER GROUND ROD SPACED 6' APART (TYP. 3)**
- #3/0**

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E603