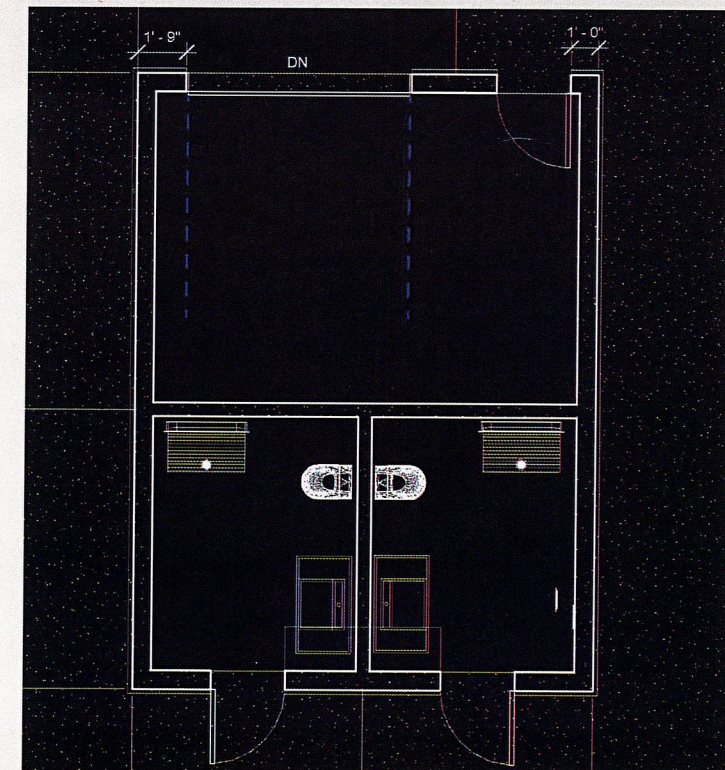
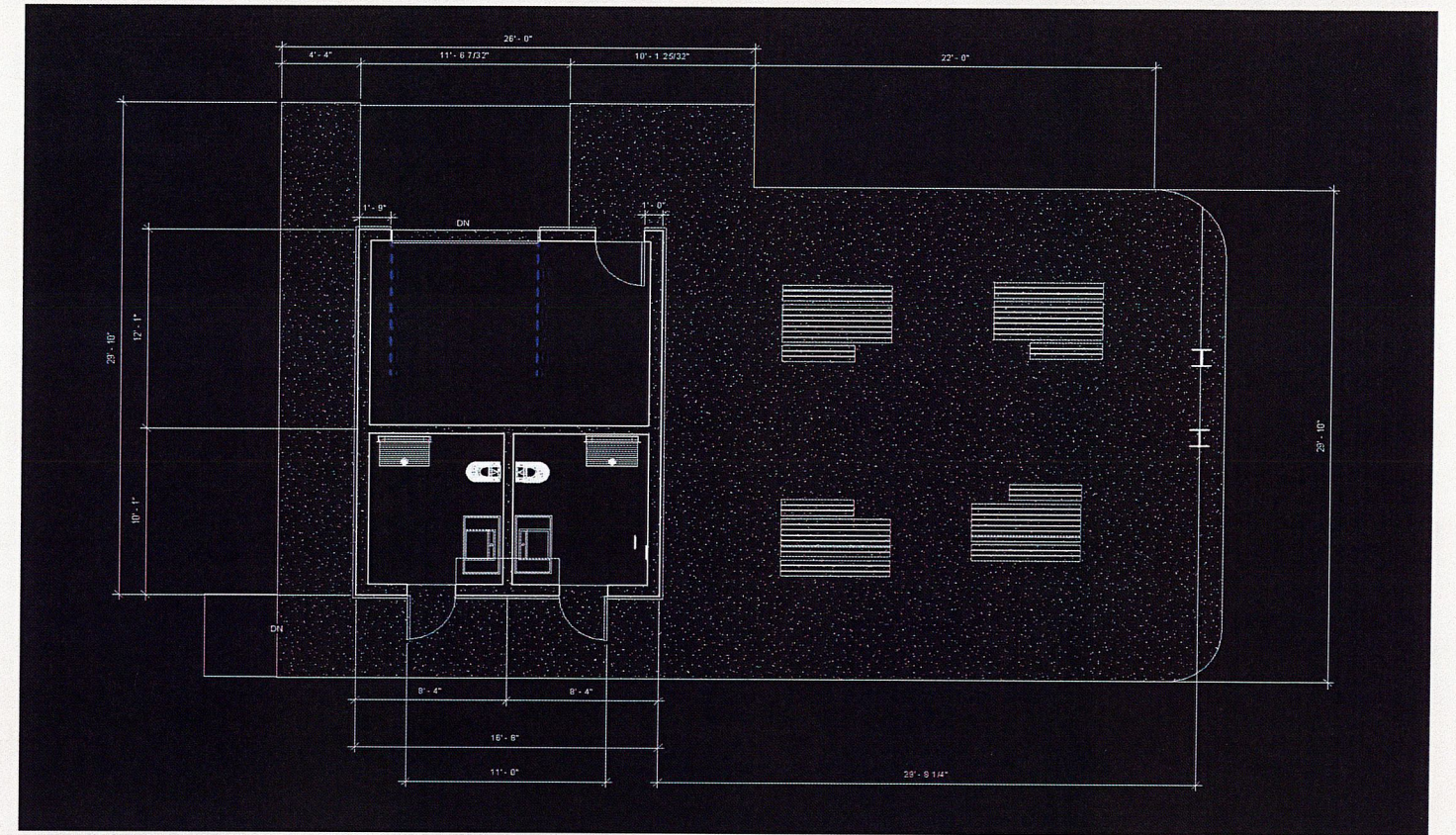


# Revit Design



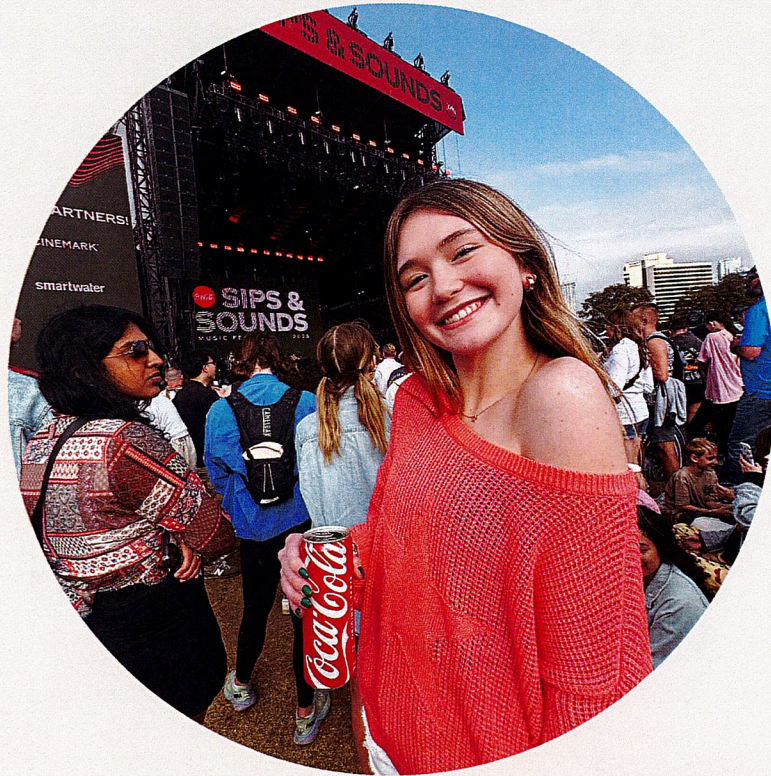


# Meet The Designers

**Faith Bartlett**  
(Jr.)

[faithbartlett@aledoisd.org](mailto:faithbartlett@aledoisd.org)

Designer/Modeler



**Samuel Ghent**  
(Sr.)

[samghent01@gmail.com](mailto:samghent01@gmail.com)

CAD  
Drafter/Designer/Modeler



**Amelia Buck**  
(Jr.)

[ameliabuck@aledoisd.org](mailto:ameliabuck@aledoisd.org)

Designer/Modeler



**Matthew Dominick**  
(Jr.)

[matthewdominick@aledoisd.org](mailto:matthewdominick@aledoisd.org)

Designer/Modeler





# OUR APPROACH

We aimed to create a pavilion that fits right into the park, balancing the needs and preferences of the park's guests with practical and aesthetic features. For example, our design is practical through the incorporation of ADA guidelines, while still remaining aesthetically pleasing.



# DESIGN INSPIRATION

We got our inspiration from the surrounding buildings such as The Shops at Willow Park, and other photos from park bathrooms and pavilions.







**KINGS GATE PARK  
RESTROOM AND PAVIL-**

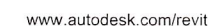
**SITE PLAN**

**DRAFT 4-29-25**

**CITY OF WILLOW PARK**

**SITE PLAN**





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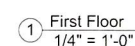
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|----------------|----------------|
| Project number | Project Number |
| Date           | Issue Date     |
| Drawn by       | Samuel Ghent   |
| Checked by     | Checke         |

A1

Scale  $1/4" = 1'-0"$







Model #: WBB1045992    MPN #: R2105-T-1

### Acorn R2105-T-1 Siphon Jet Wall Mounted Toilet W/Top Spud, Stainless Steel Finish

Write a Review | Questions & Answers (2)

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#### Product Description

Acorn R2105-T-1 Siphon Jet Wall Mounted Toilet W/Top Spud, Stainless Steel Finish

These stainless steel fixtures match rough-in dimensions for most existing vitreous china toilets in commercial, industrial and institutional settings in environments that require a durable, cost-effective and hygienic product. These durable units meet the high-use demands of

PRICE

**\$1,075.00**

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**Chromox**

**Instant-FLOW SR-Low Flow 0.25 GPM Point of Use Electric Tankless Water Heater, 15 Amp, 120-Volt, 1600-Watt**

★★★★☆ (3) ✓ Questions & Answers (1)

**\$'49<sup>33</sup>**

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- For point-of-use at hotel handwashing sinks and lavatories
- Ideal for men's hampers or simple hands sanitizers
- Flow regulation is Low 0.1-0.150 Gallons Per Minute
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---

**Particularly for Warranty:**

✓ Yes    **No Warranty**

---

**Pickup at Warehouse?**      **Delivery to ZIPS05**

| <b>Ship to Store</b>             | <b>Delivery</b>                  |
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| Apr 28 - Apr 29<br>(3) available | Apr 28 - Apr 29<br>(3) available |
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**RESTROOM**

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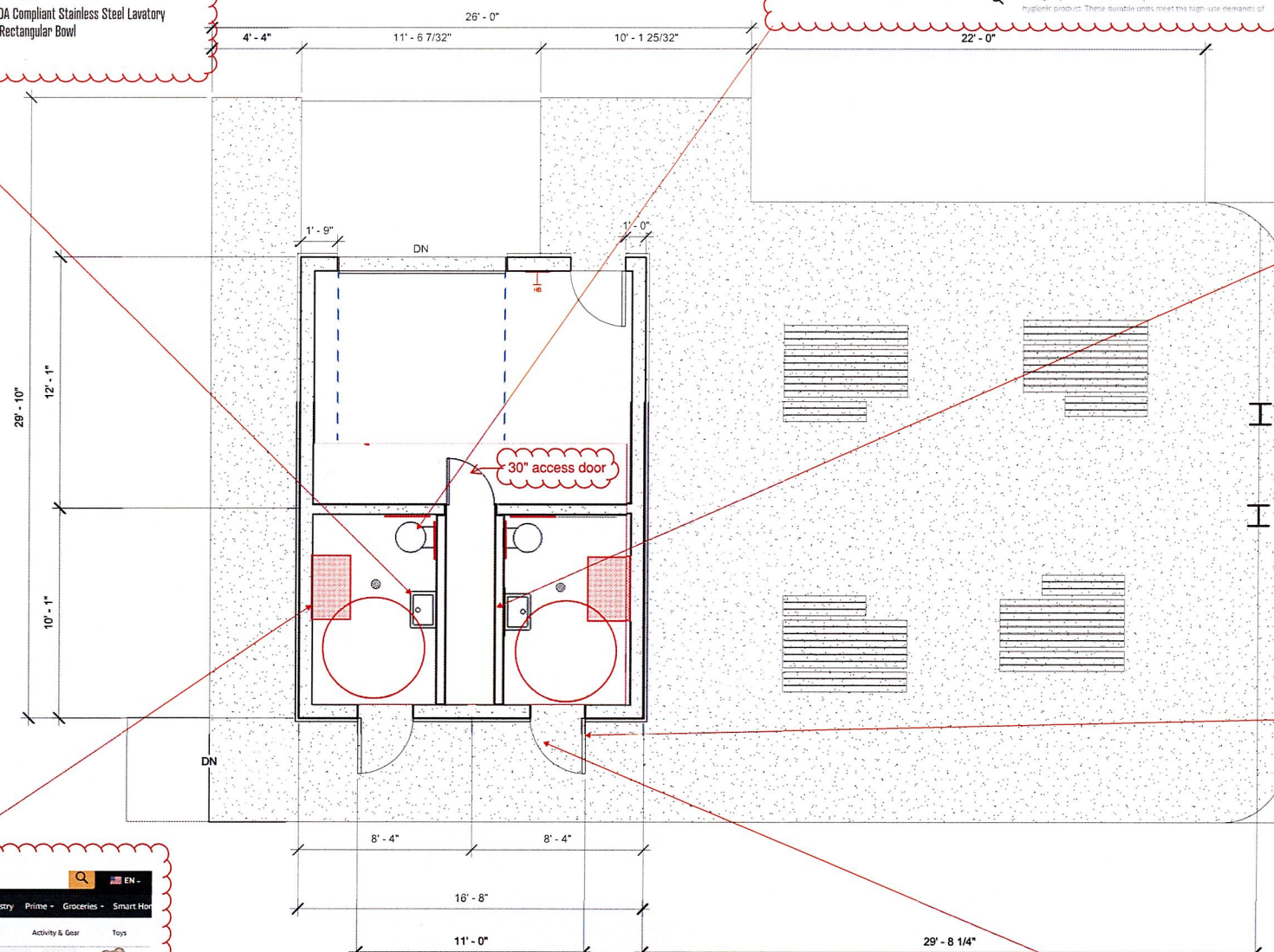
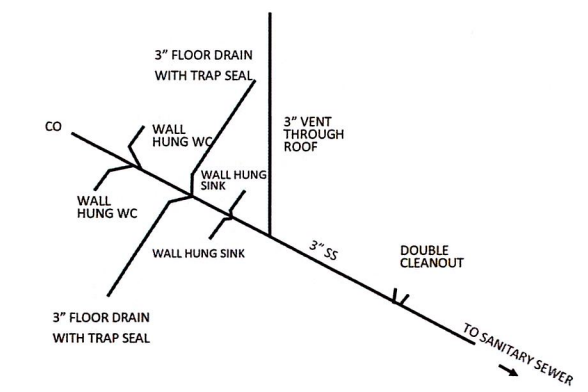
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
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Color: **6" x 9" Steel**

|   |   |   |   |
|---|---|---|---|
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| \$26.95   | \$28.95   | \$36.95   | \$33.95   |

**Brand** SmartSign  
**Size** 6x9 inches  
**Color** 6" x 9" Steel  
**Material** Foam, Stainless Steel, Aluminum, Alloy Steel, Plastic, Metal  
**Mounting Type** Wall Mount  
**Item Weight** 0.28 Pictograms  
**Orientation** Portrait









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
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
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Commercial ADA Grab Bar Bundle for Commercial Restrooms - ADA Compliance - 1.5" Diameter - 18", 36", 42" - Pack of 3

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
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Brand

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City of Willow Park  
Kings Gate Park  
First Floor Plan  
**PLUMBING**

|                |                |
|----------------|----------------|
| Project number | Project Number |
| Date           | Issue Date     |
| Drawn by       | Samuel Ghent   |
| Checked by     | Checker        |

P1

Scale  $1/4" = 1'-0"$

1 First Floor  
1/4" = 1'-0"





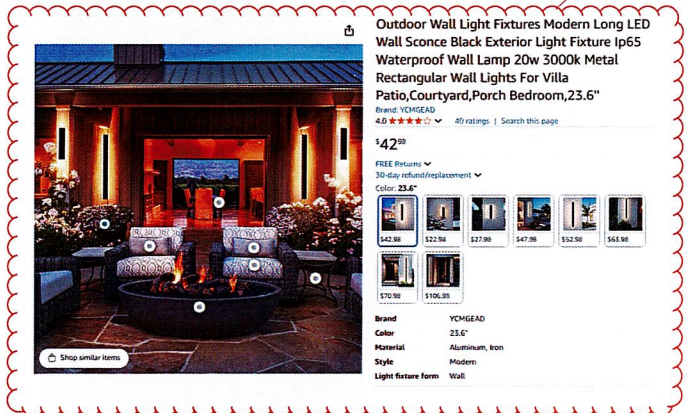
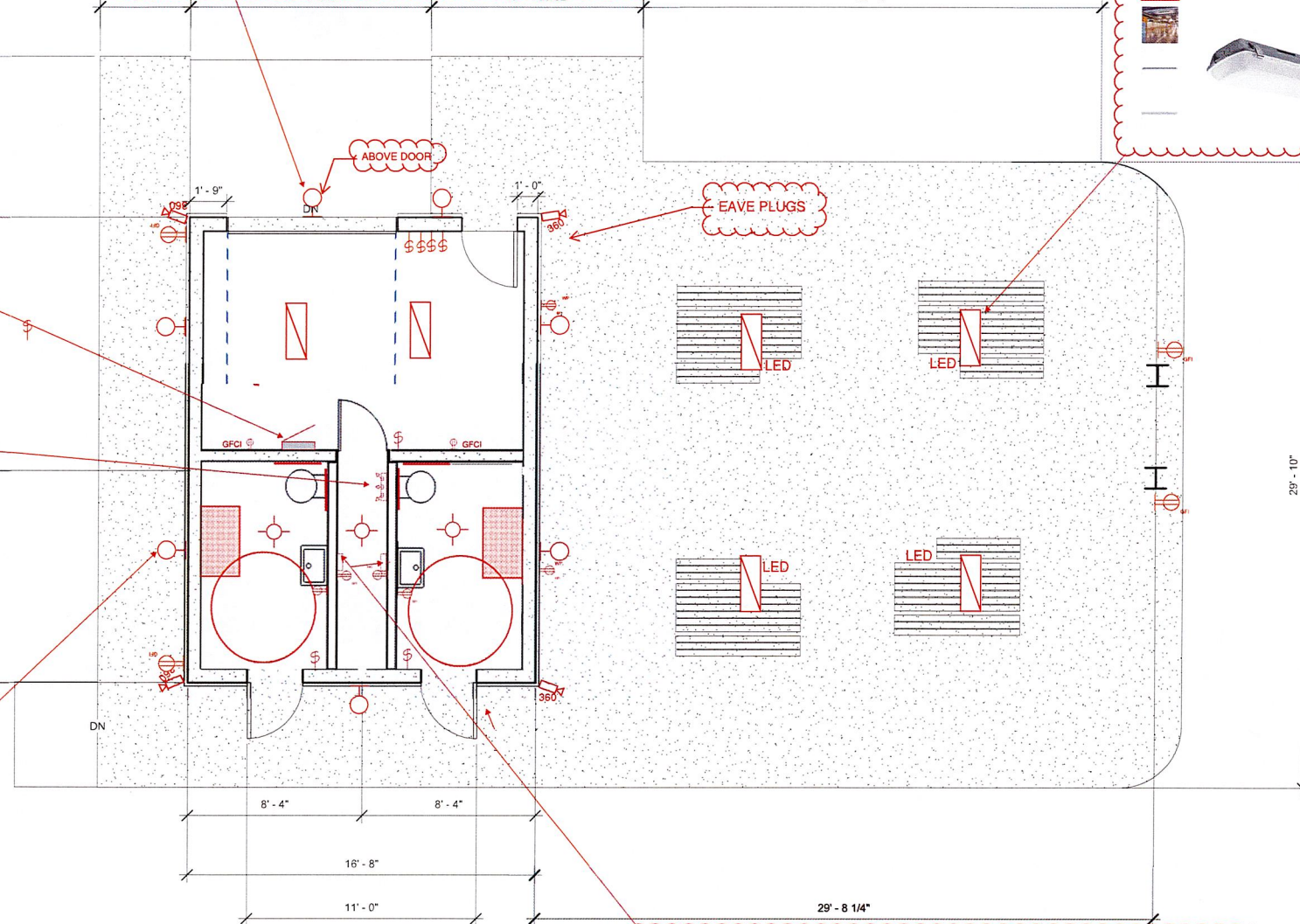
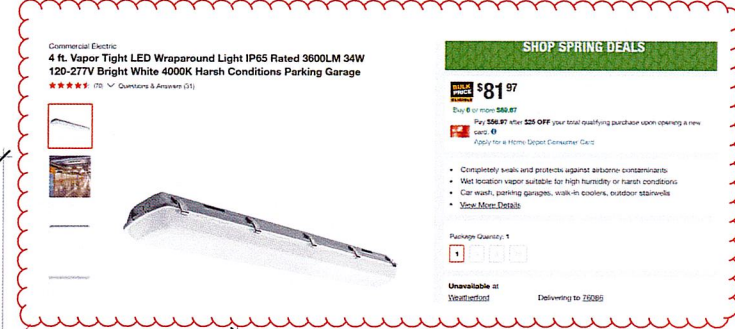
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Scale  $1/4" = 1'-0"$



1 First Floor  
1/4" = 1'-0"



| GENERAL NOTES  |                               | MASONRY NOTES  |  | GENERAL FOUNDATION NOTES |                               |          |                         |          |                          |           |                          |   |  |
|--|-------------------------------|--|--|--------------------------|-------------------------------|----------|-------------------------|----------|--------------------------|-----------|--------------------------|---|--|
| <p>EXISTING CONDITIONS. EACH BIDDER/CONTRACTOR SHALL VISIT THE JOB SITE AS REQUIRED TO DETERMINE AND / OR VERIFY EXISTING CONDITIONS. ANY EXCEPTIONS TO EXISTING CONDITIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CITY.</p> <p>THE CONTRACTOR SHALL COMPARE STRUCTURAL DRAWING TO ALL OTHER DISCIPLINES. ANY DESCREPCENCIES SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE CITY.</p> <p>THE STRUCTURAL DRAWINGS REPRESENTS THE FINISHED STRUCTURE. DRAWINGS DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE AL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHOULD INCLUDE, BE NOT LIMITED TO BRACING AND SHORING OF DEAD LOADS, CONSTRUCTION LOADS, WIND LOADS ETC.</p> <p>THIRD PARTY COMPONENT DESIGNERS SHALL VERIFY ALL DESIGN / CODE REQUIREMENTS WITH THE BUILDING OFFICIAL PRIOR TO BIDS OR FABRICATION.</p>  |                               | <p>1. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 GRADE N. NORMAL WEIGHT UNITS, TYPE 1 MOISTURE. UNITS SHALL NOT BE WET AT THE TIME OF PLACING. A LETTER CERTIFYING THAT THE MASONRY UNITS MEET OR EXCEED THE SPECIFIED COMPRESSIVE STRENGTH OF THE MASONRY UNITS SHALL BE PROVIDED BY THE MANUFACTURE PRIOR TO DELIVERY.</p> <p>2. MORTAR FOR MASONRY WORK SHALL BE TYPE "S" (ASTM C270, LATEST EDITION). PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, 1/2 PART HYDRATED LIME, AND 3 1/2 TO 4 1/2 PARTS SAND WITH WATER AS REQUIRED FOR WORKABILITY. RETEMPERING WILL NOT BE ALLOWED. MASONRY CEMENTS OR PRE-MIXED MORTARS WILL POSITIVELY NOT BE ALLOWED. LIME SHALL BE TYPE "S" ONLY. NO AIR ENTRAINMENT WILL BE ALLOWED.</p> <p>3. GROUT USED IN MASONRY WORK SHALL BE COARSE GROUT (ASTM C476, LATEST EDITION). PROPORTIONS BY VOLUME SHALL BE 1 PART PORTLAND CEMENT, UP TO 1/10 PART HYDRATED LIME, 2 1/2 TO 3 PARTS FINE AGGREGATE, AND 1 TO 2 PARTS COARSE AGGREGATE WITH WATER AS REQUIRED FOR WORKABILITY. GROUT SHALL BE ADEQUATELY CONSOLIDATED, BUT CARE SHALL BE TAKEN TO AVOID BLOW-OUTS WHEN VIBRATING. THE CAVITY SHALLL BE CLEANED OF ALL MORTAR DROPPINGS, DEBRIS, TRASH, ETC. PRIOR TO GROUTING.</p> <p>4. ACCURATE MEASURING CONTAINERS, SUCH AS A "CUBIC FOOT BOX", SHALL BE PROVIDED AND USED AT ALL TIMES IN MIXING BOTH MORTAR AND GROUT USED IN MASONRY WORK.</p> <p>5. SEPARATE MIXERS SHALL BE PROVIDED FOR MORTAR AND GROUT USED IN MASONRY WORK.</p> <p>6. JOINT REINFORCEMENT, HORIZONTAL JOINT REINFORCEMENT SHALL BE LADDER OR TRUSS TYPE WITH A MINIMUM OF (2) #9 WIRES. JOINT REINFORCEMENT SHALL BE PLACED VERTICALLY AT 16" ON CENTER.</p> <p>7. REFERENCE ARCHITECTURAL DRAWINGS FOR OPENING, ARCHES, AND ALL OTHER DETAILS IN MASONRY WORK.</p> <p>8. ALL RECOMMENDATION OF THE NATIONAL CONCRETE MASONRY ASSOCIATION SHALL BE FOLLOWED IN REGARDS TO WORKMANSHIP, COLD WEATHER PROCEDURES, FLASHING, LEVEL AND PLUMB TOLERANCES, ETC.</p> <p>9. ALL BOLTS, ANCHORS, ETC. INSERTED IN THE WALL SHALL BE GROUTED SOLID IN PLACE.</p> <p>10. DESIGN STRESSES HAVE BEEN ADJUSTED TO PERMIT NON-CONTINUOUS INSPECTION WHERE ALL ALLOWED BY AHJ.</p> <p>11. SPECIFIED COMPRESSIVE STRENGTH OF MASONRY , fm, SHALL NOT BE LESS THAN 1800 PSI.</p> <p>12. MASONRY LINTEL SHALL BE CONSTRUCTED ACCORDING TO THE FOLLOWING SCHEDULE.</p> <table><tr><td><u>OPENING</u></td><td><u>LINTEL AND REINFORCING</u></td></tr><tr><td>TO 4'-0"</td><td>8" LINTEL WITH (2)-#4's</td></tr><tr><td>TO 6'-0"</td><td>16" LINTEL WITH (2)-#4's</td></tr><tr><td>TO 10'-0"</td><td>16" LINTEL WITH (2)-#5's</td></tr></table> <p>13. PROVIDE #5 VERTICAL REINFORCEING AT 32" O.C. IN FULLY GROUTED CELLS. PROVIDE VERTICAL REBAR ON EACH SIDE OF ALL OPENINGS.</p> |  | <u>OPENING</u>           | <u>LINTEL AND REINFORCING</u> | TO 4'-0" | 8" LINTEL WITH (2)-#4's | TO 6'-0" | 16" LINTEL WITH (2)-#4's | TO 10'-0" | 16" LINTEL WITH (2)-#5's | <p>1. STRIP BUILDING SITE OF TOPSOIL AND ORGANIC MATERIAL.</p> <p>2. REMOVE EXISTING SOILS TO A DEPTH TO SATISFACTORY BEARING SUBSTRAIT.</p> <p>3. SCARIFY EXPOSED SUB-GRADE TO 9 INCHES AND COMPACT EXPOSED GRADE MINIMUM OF 95% OF STANDARD PROCTOR DENSITY ASTM 698, AT OR ABOVE OPTIMUM MOISTURE CONTENT.</p> <p>4. PLACE FILL IN LOOSE LIFTS NOT EXCEEDING EIGHT (8) INCHES IN UN-COMPACTED THICKNESS. COMPACT FILL TO A MINIMUM OR 95% OF STANARD PROCTOR DENSITY AT OR ABOVE OPTIMUM MOISTURE CONTENT.</p> <p>5. REPLACE EXCAVATED SOILS WITH EXISTING ONSITE SOILS COMPACTION MINIMUM OF 95% TO A MINIMUM OF +2% ABOVE OPTIMUM MOISTURE CONTENT AND FINISH WITH A MINIMUM OF 12" OF SELECT FILL AS REQUIRED TO ACHIEVE FINAL GRADES.</p> <p>6. USE SAND PLATES AND CHAIRS TO SUPPORT REINFORCING.</p> <p>7. LAP REINFORCEING BAR A MIN. OF 30 BAR DIAMETERS AT ALL SPLICES.</p> <p>8. PROVIDE #4 DOWELS AT 12" O.C. AT ALL SIDEWALKS TO BUILDING ENTRANECES INTERFACES.</p> <p>9. SLABS ON GRADES SHALL BE A MINIMUM OF 5 INCHES THICK REINFORECED SLAB. REINFORCING SHALL BE #3 AT 18" O.C. EACH WAY.</p> <p>10. PROVIDE 10 MIL VAPOR BARRIER UNDER BUILDING SLAB.</p> <p>11. COORDINATE ALL WORK (MECHANICAL, ELECTRICAL, SLEEVES, CONDUIT, CAST-IN-PLACE ITEMS, ETC.) PRIOR TO PLACING CONCRETE.</p> |  |
| <u>OPENING</u>   | <u>LINTEL AND REINFORCING</u> |  |  |                          |                               |          |                         |          |                          |           |                          |   |  |
| TO 4'-0"   | 8" LINTEL WITH (2)-#4's       |  |  |                          |                               |          |                         |          |                          |           |                          |   |  |
| TO 6'-0"   | 16" LINTEL WITH (2)-#4's      |  |  |                          |                               |          |                         |          |                          |           |                          |   |  |
| TO 10'-0"  | 16" LINTEL WITH (2)-#5's      |  |  |                          |                               |          |                         |          |                          |           |                          |   |  |
| DESIGN CRITERIA  |                               | STEEL NOTES  |  |                          |                               |          |                         |          |                          |           |                          |   |  |
| <p>1. BUILDING CODES</p> <p>A. 2021 INTERNATIONAL BUILDING CODE AS ADOPTED BY THE CITY OF WILLOW PARK, TEXAS.</p> <p>B. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI318.</p> <p>C. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS– ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN, NINTH EDITION.</p> <p>2. DESIGN CRITERIA</p> <p>GRAVITY LOADS</p> <p>ROOF LIVE LOAD OF 20 PSF</p> <p>ROOF DEAD LOAD OF 20 PSF</p> <p>FLOOR LIVE LOAD 40 PSF</p> <p>CORRIDOR AND STAIRS LOAD 100 PSF 300 LBS CONC.</p> <p>GROUND SNOW LOAD 5 PSF</p> <p>RAIN LOADING 4 INCHES PER HOUR</p> <p>WIND LOAD PER IBC 2021 EDITION</p> <p>BASIC WIND SPEED V<sub>0</sub>T = 115 MPH Vads 3s = 90 MPH, CAT. II</p> <p>CATEGORY II EXPOSURE C</p> <p>INTERNAL PRESSURE COEFFICIENT GCpi + 0.55 –0.55</p> <p>GAZING DESIGN PRESSURE DP = 15</p> <p>A) EARTHQUAKE DESIGN PER IBC 2021 EDITION</p> <p>RISK CATEGORY II</p> <p>SEISMIC IMPORTANCE FACTOR IE=1</p> <p>S3 = 0.037 S1 = 0.02</p> <p>SITE CLASS D</p> <p>Sds = 0.029 Sd1 = 0.02</p> <p>SEISMIC DESIGN CATEGARY A</p> <p>BASIC SEISMIC FOR RESISTANCE SYSTEM, A.15– LIGHT FRAME WOOD</p> <p>DESIGN BASE SHEAR V=28.4K</p> <p>SEISMIC RESPONSE COEFFICIENT, Cs=0.01</p> <p>RESPONSE MODIFIER, R=6.5</p> <p>ANALYSIS PROCEDURE, SIMPLE DESIGN PROCEDURE</p> |                               | <p>1. STRUCTURAL STEEL: ALL WIDE FLANGE SECTIONS SHALL BE ASTM A572 GRADE 50. ALL ANGLES, CHANNELS, AND PLATES SHALL BE ASTM A36. ALL STRUCTURAL STEEL PIPE SHALL BE ASTM A 53 GRADE B. ALL TUBE STEEL SECTIONS SHALL BE ASTM A500 GRADE B. STRUCTURAL STEEL SECTIONS SHALL BE DESIGNED, DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC "MANUAL OF STEEL CONSTRUCTION", NINTH EDITION. ALL STRUCTURAL STEEL SHAL BE PAINTED WITH A SHOP PRIME COAT AND FIELD RETOUCED WHERE THE SHOP COAT HAS BEEN DAMAGED DUE TO PLACING, HANDLING, AND WELDING.</p> <p>2. CONNECTIONS SHALL BE DESIGNED AND DETAILED FOR 1/2 OF THE ALLOWABLE UNIFORM LOAD OF AISC TABLES FOR THE SPAN OF A BEAM.</p> <p>3. ALL STEEL BEAMS SHALL BE FABRICATED WITH NATURAL CAMBER UP.</p> <p>4. ALL BOLTED CONNECTIONS FOR STRUCTURAL STEE SHAL USE 3/4" DIAMETER ASTM A325 HIGH STRENGTH BOLTS EXCEPT FOR JOIST BEARING AND BRIDGING, WHICH SHALL BE 5/8" DIAMETER ASTM HIGH STRENGTH BOLTS. CONNECTIONS SHALL BE BEARING TYPE WITH THREADS. NOT ALLOWED IN SHEAR PLANE.</p> <p>5. ALL ANCHOR BOLTS SHALL BE 3/4" DIA. ASTM A 307 UNFINISHED WITH SUITABLE NUTS AND WASHERS, UNLESS OTHERWISE NOTED.</p> <p>6. ALL WELDS SHALL USE E70XX LOW HYDROGEN ELECTRODES AND SHALL BE MADE IN ACCORDANCE WITH AISC AND AWS.</p>  |  |                          |                               |          |                         |          |                          |           |                          |   |  |

KINGS GATE PARK

RESTROOM AND PAVILION

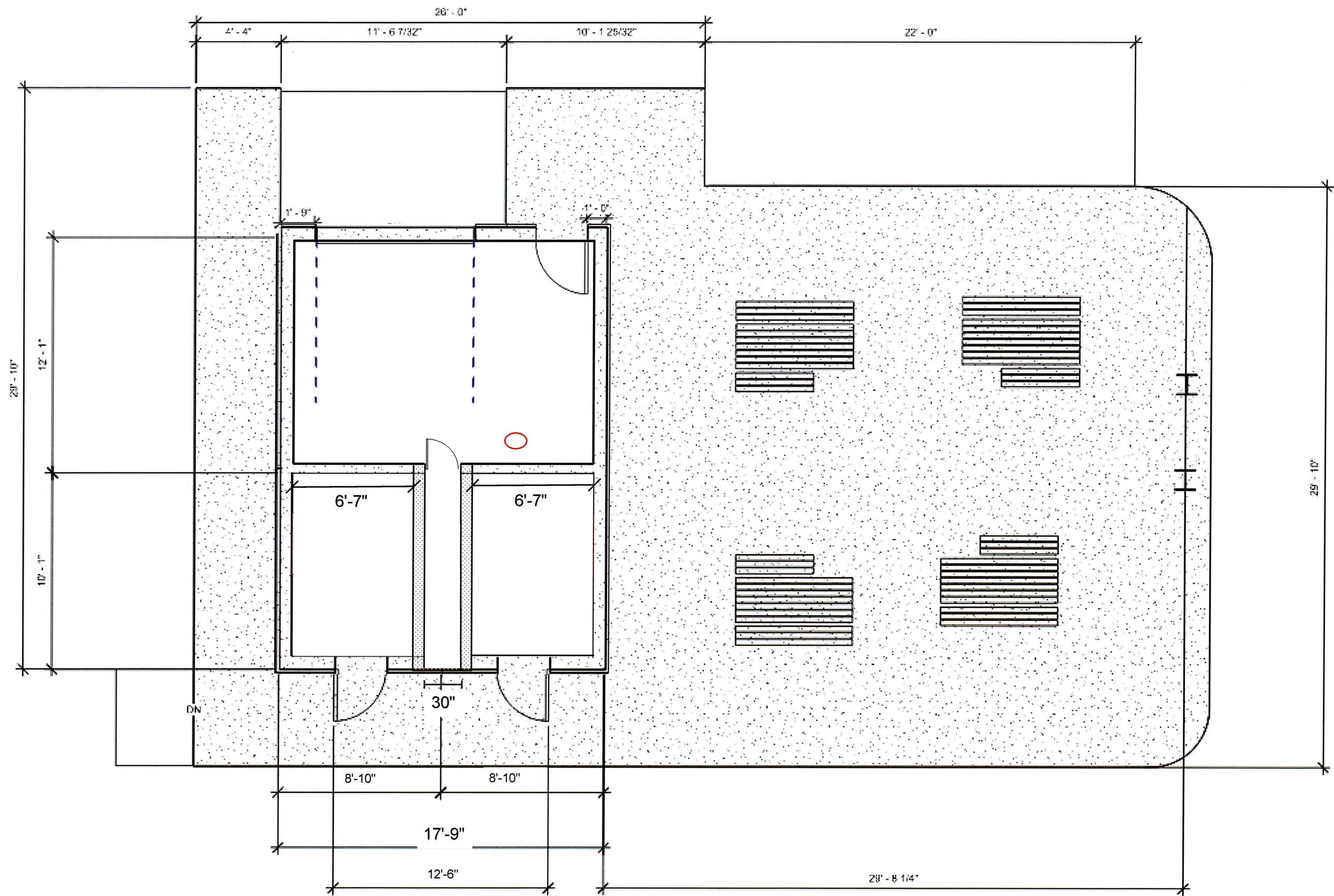
GENERAL NOTES

CITY OF WILLOW PARK

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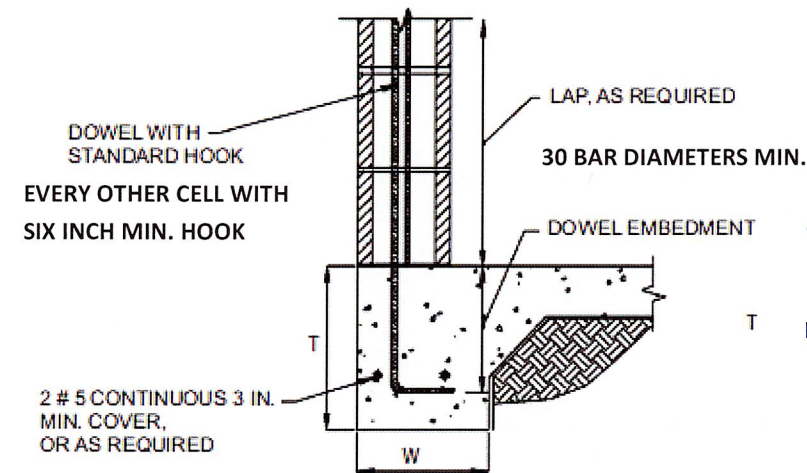
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FOUNDATION

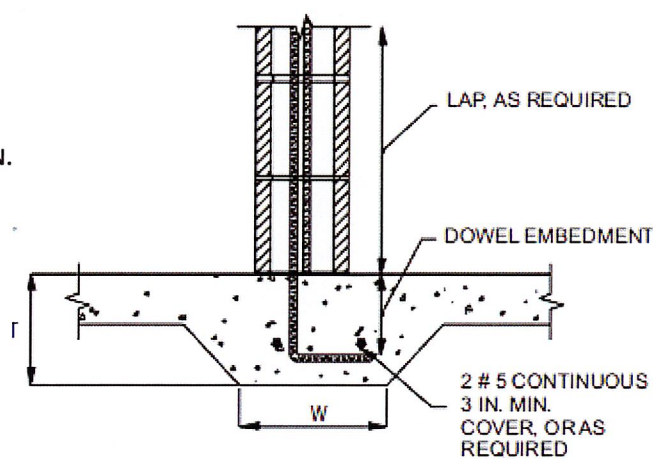
CITY OF WILLOW PARK  
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BATHROOMS

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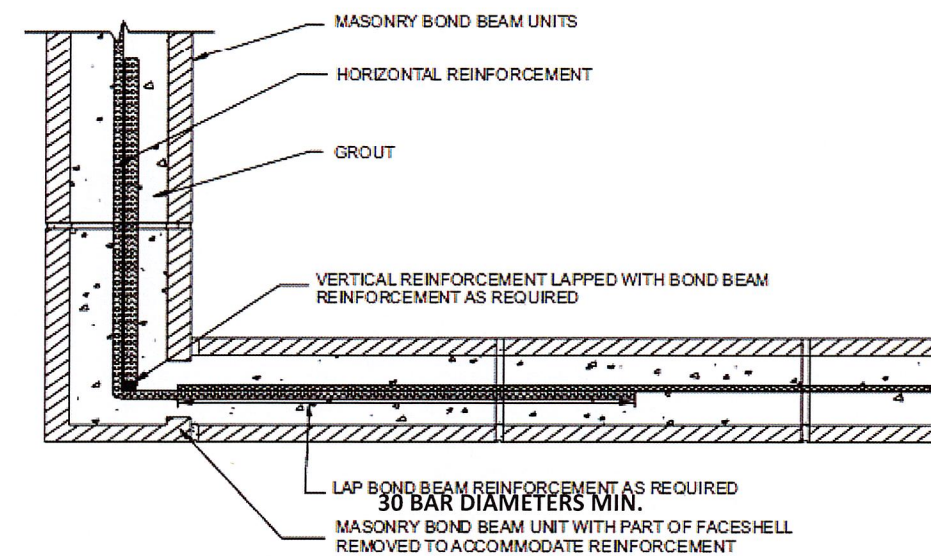




EXTERIOR WALL DETAIL A



INTERIOR WALL DETAIL B



8"X8"X16"(8 inches)

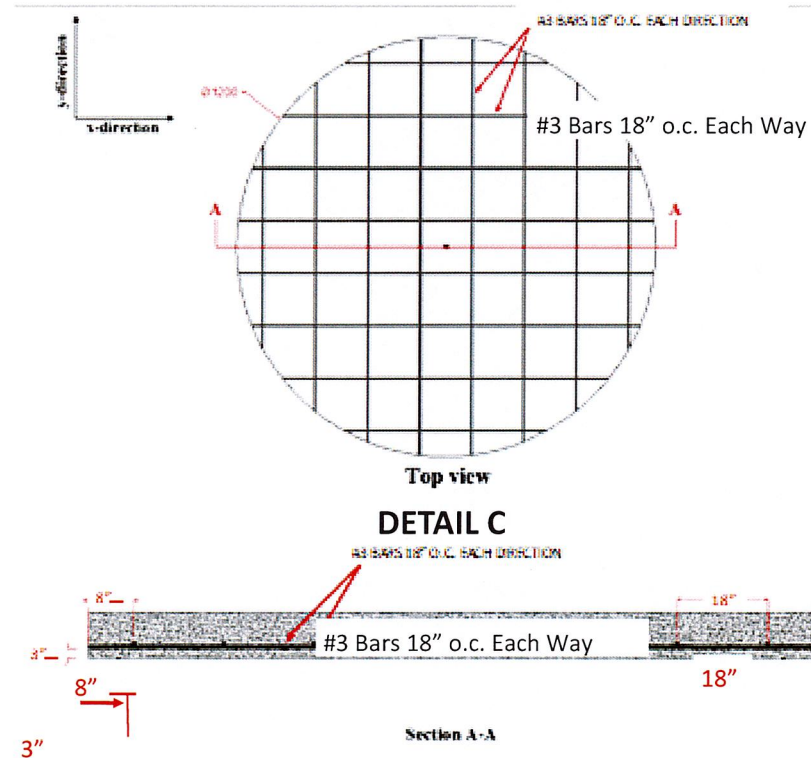
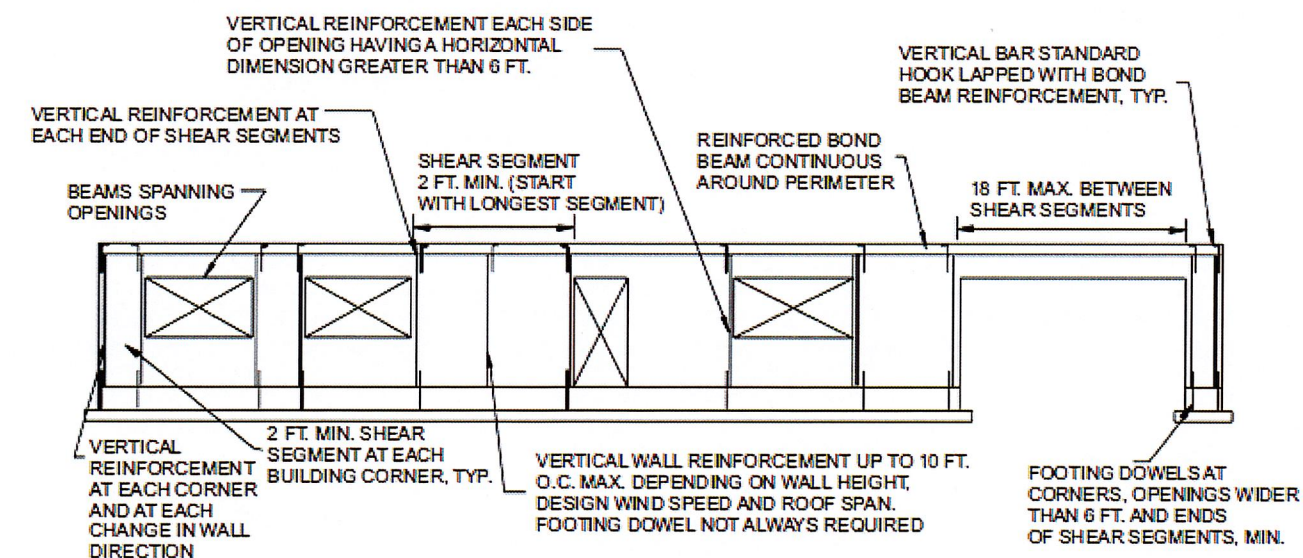
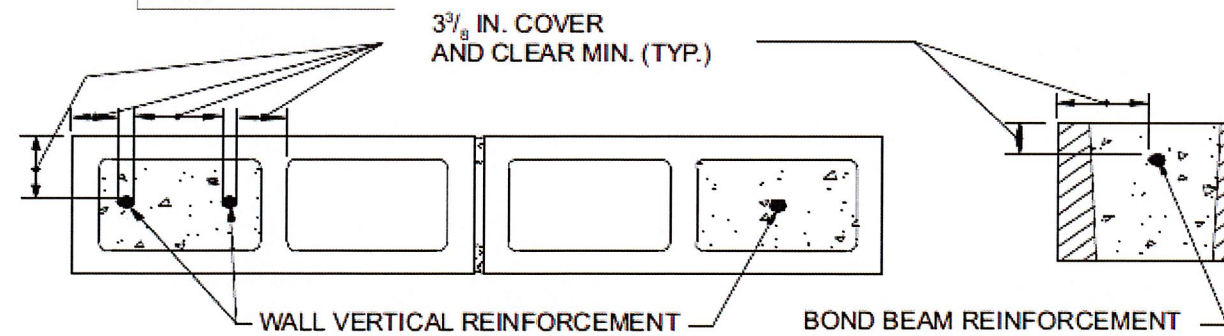
Coosal's Block Calculator

|                              |            |
|------------------------------|------------|
| Wall Height (ft)             | 10         |
| Wall Length (ft)             | 56         |
| Total Masonry Units Required | 677 Blocks |

6"X8"X16" (6 inches)

Coosal's Block Calculator

|                              |            |
|------------------------------|------------|
| Wall Height (ft)             | 10         |
| Wall Length (ft)             | 26         |
| Total Masonry Units Required | 314 Blocks |



# KINGS GATE PARK RESTROOM AND PAVILION

## FOUNDATION DETAILS

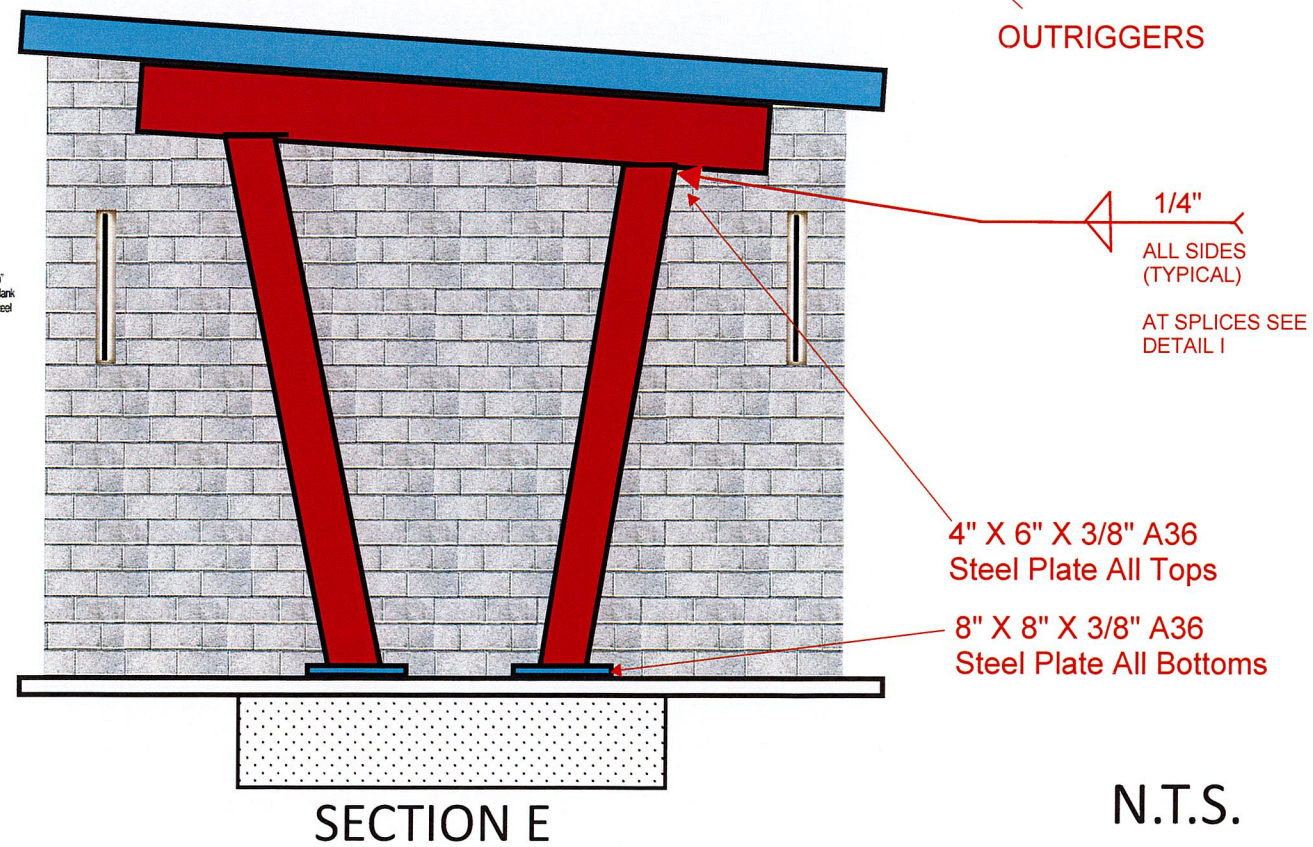
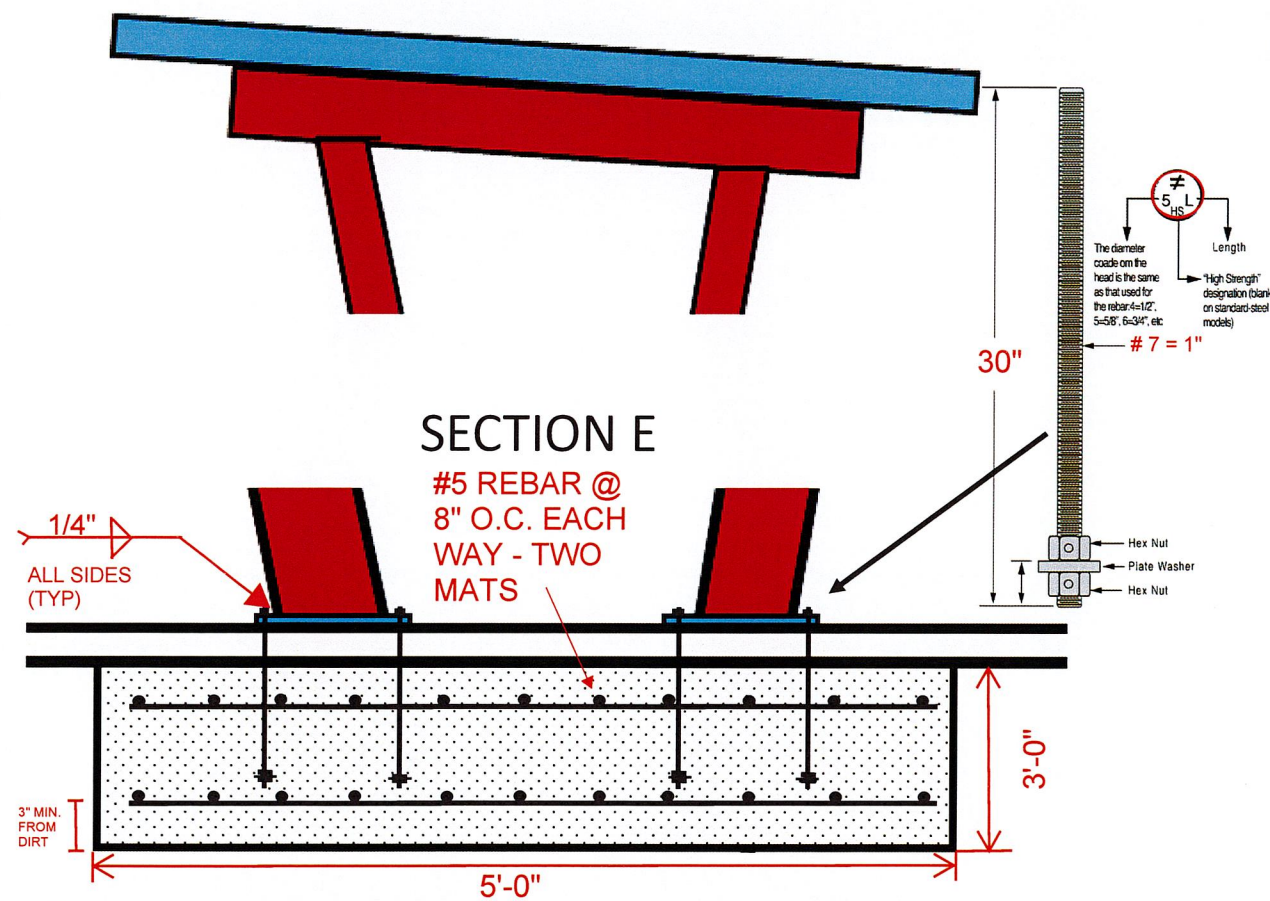
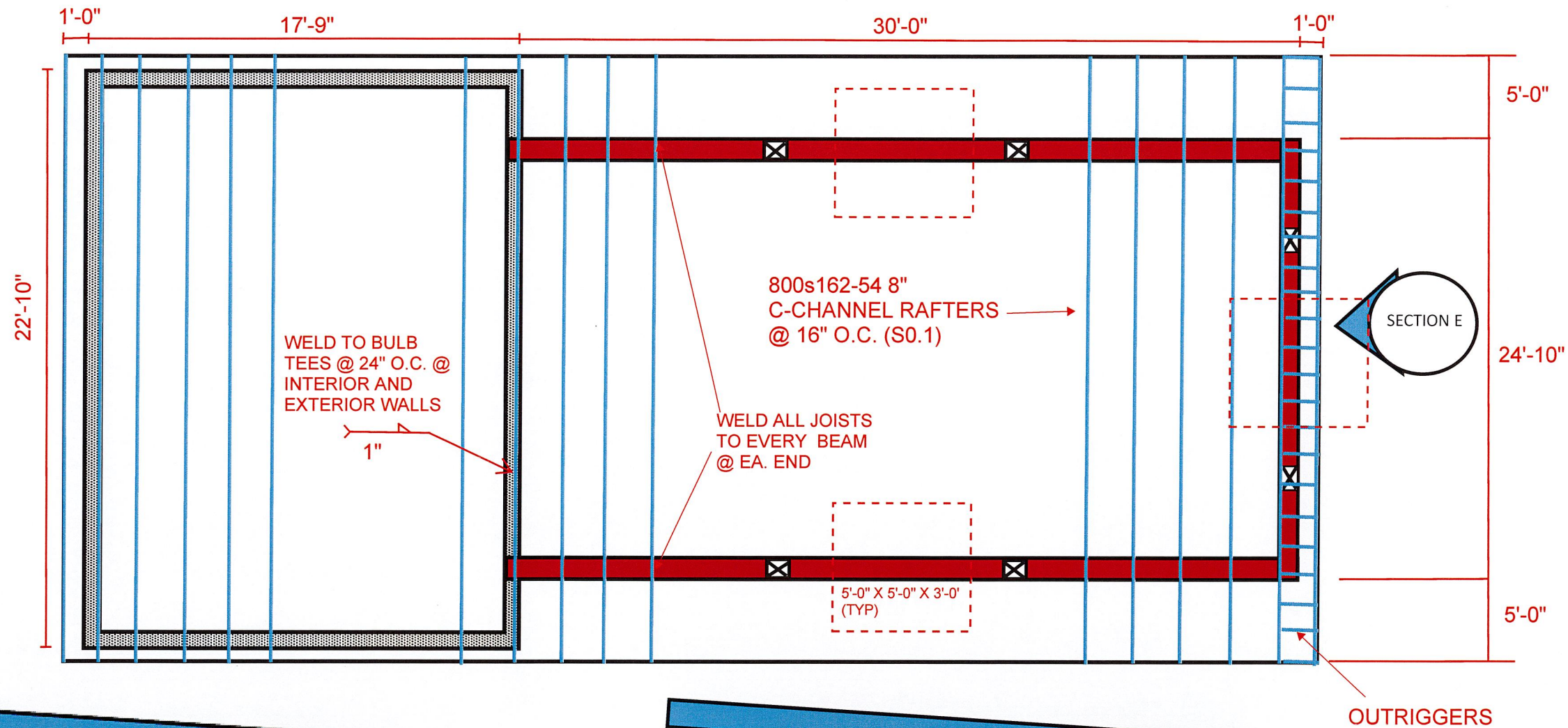
N.T.S.

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CITY OF WILLOW PARK

STRUCTURAL S2





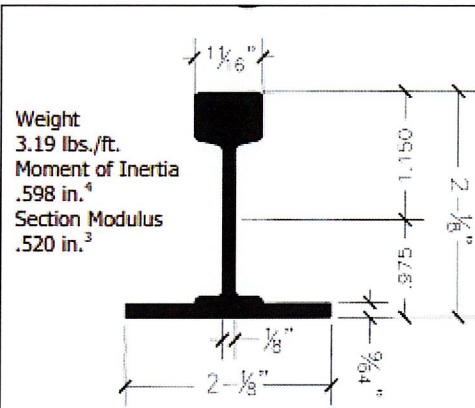
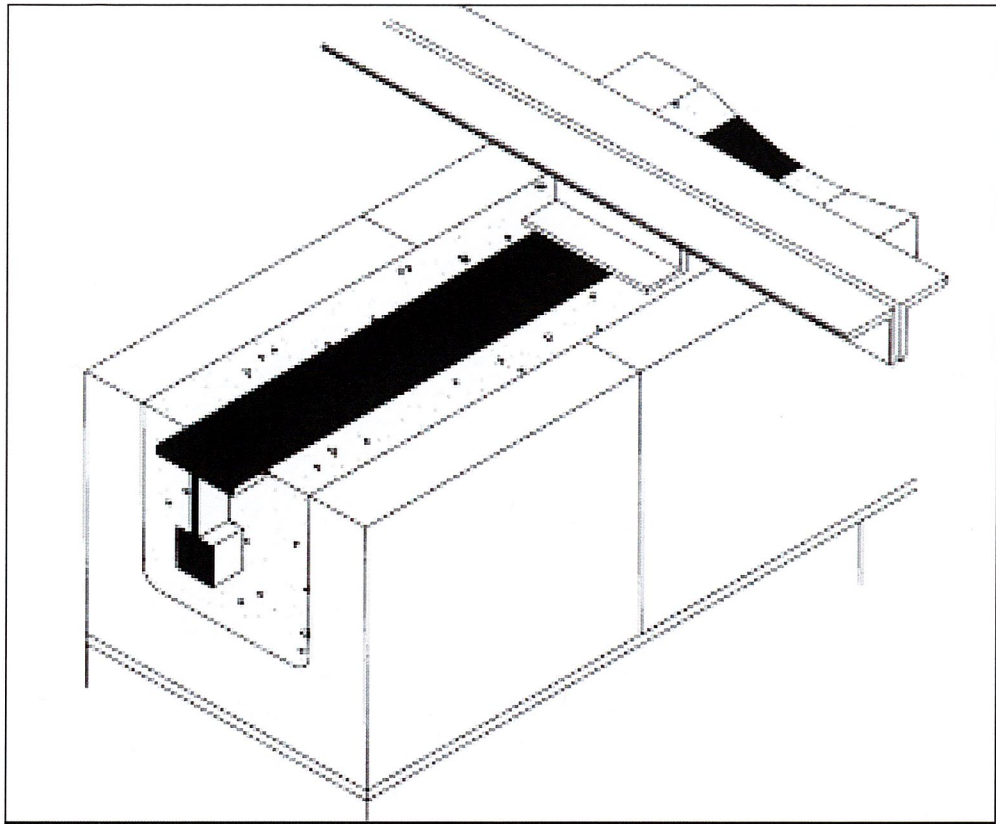
# KINGS GATE PARK RESTROOM AND PAVILION

## ROOF AND SUPPORT DETAILS

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CITY OF WILLOW PARK  
KINGS GATE PARK

STRUCTURAL S3





Weight  
3.19 lbs./ft.  
Moment of Inertia  
.598 in.<sup>4</sup>  
Section Modulus  
.520 in.<sup>3</sup>

## #218 Bulb Tees

High Strength Structural Subpurlins & Bond Beams

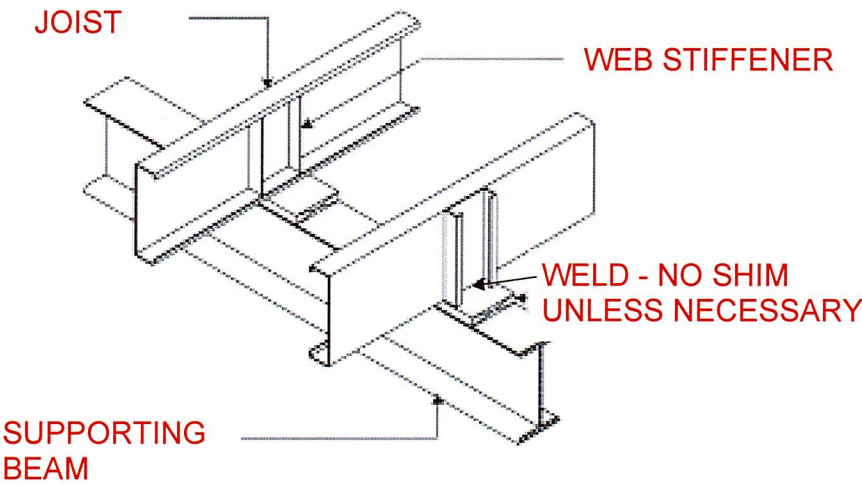
Bulb Tees are high strength, lightweight, steel sections for use as structural subpurlins in specialty roof decks such as Tectum Wood Fiber Decks, Poured Gypsum Decks and Span-Rock Gypsum Plank Decks. Bulb Tees also make excellent bond beams for anchoring structural members, providing a continuous steel strip for attachment and reinforcement.

Total Safe Uniform Load - psf

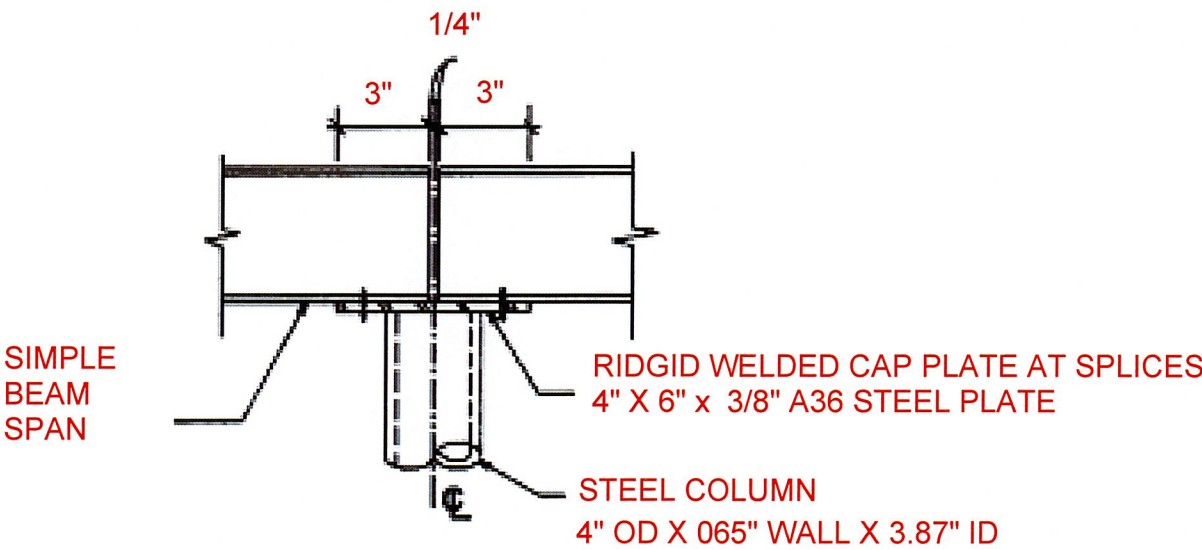
|      | Span |      |      |      |      |      |       |       |       |                          |
|------|------|------|------|------|------|------|-------|-------|-------|--------------------------|
|      | 7'0" | 7'6" | 8'0" | 8'6" | 9'0" | 9'6" | 10'0" | 10'6" | 11'0" | Max. Eave Overhang 4'10" |
| #218 | 119  | 103  | 91   | 80   | 72   | 64   | 58    | 52    | 48    |                          |

Note: Above loads are based on a three span condition, 32 5/8" tee spacing. Design stress as given in the " Specification and Design Properties" table below, are for the bulb tee acting alone. That is, they ignore any contribution to flexural strength from the deck material. Capacities may be adjusted for bulb tee spacing other than 32 5/8" as follows: for 24 5/8" spacing, multiply allowable total safe uniform load by a factor of 1.32; for 42 5/8" spacing, multiply by .77; for 48 5/8" spacing, multiply by .67. Capacities may be adjusted for different support configurations as follows; for two span condition, multiply allowable total safe uniform load by 1.13, for a single span condition, multiply by .64. Maximum eave overhang has been calculated based on a uniform load of 45 psf only. If blocking, gutters, angles, soffits, etc., are to be suspended from the end of an overhang, the effect of these additional superimposed loads should be calculated separately. All total safe uniform loads given above are calculated on the basis of allowable flexural stress only, and ignore deflection. The designer/specifier is urged to check the theoretical deflection of any section, under the loads, and support conditions which are expected to be encountered.

DETAIL F



DETAIL G



DETAIL I

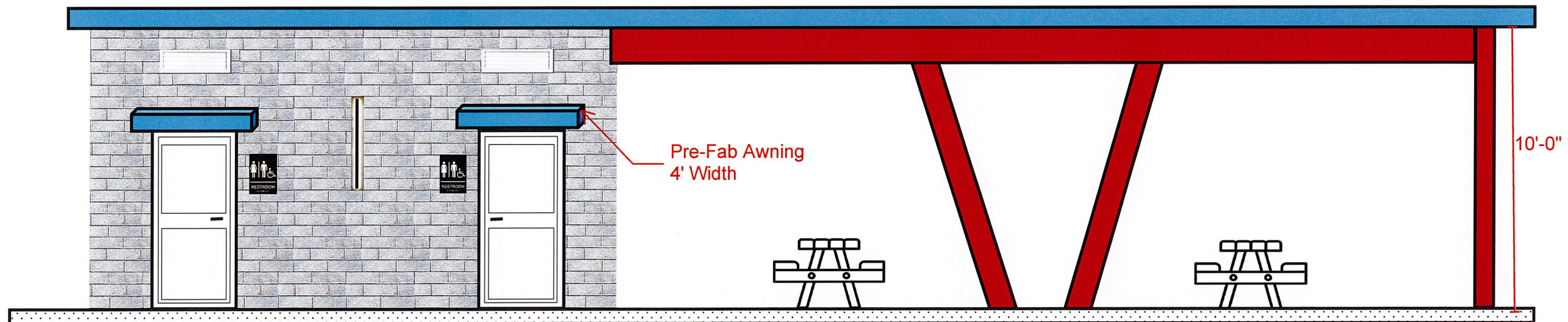
KINGS GATE PARK  
RESTROOM AND PAVIL-

DETAILS

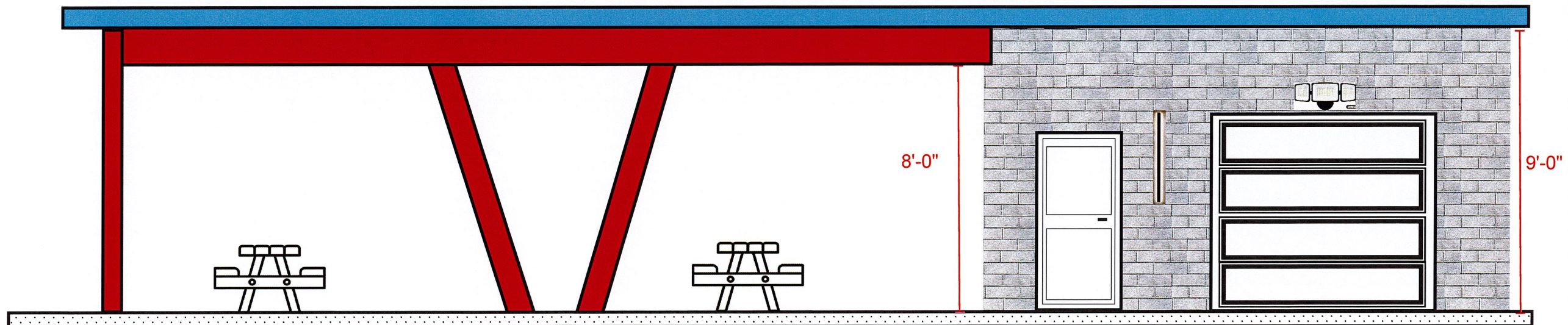
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KINGS GATE PARK

STRUCTURAL S4





SOUTH



NORTH



N.T.S.

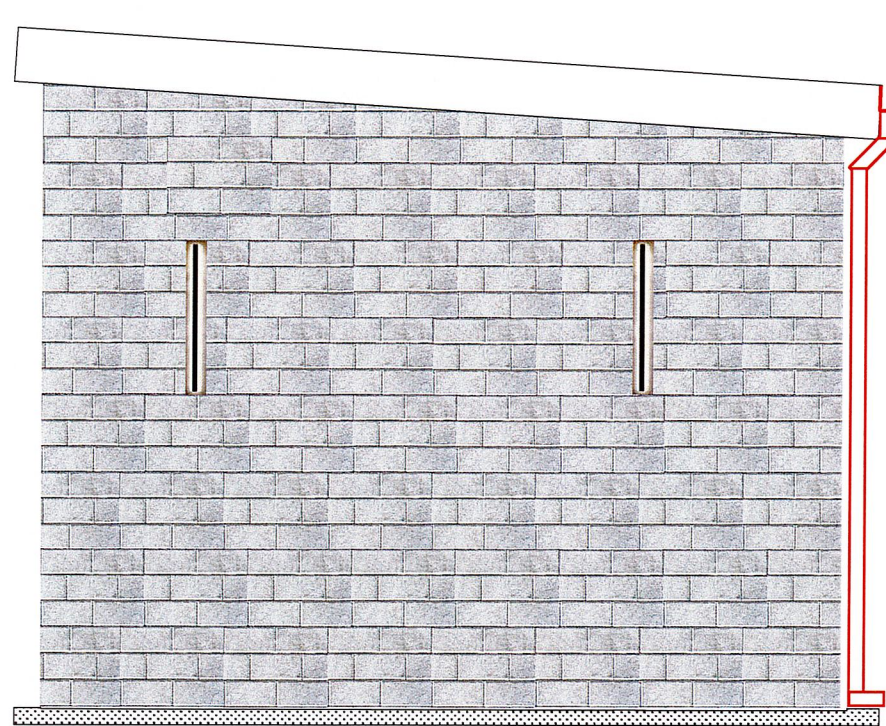
KINGS GATE PARK  
RESTROOM AND PAVILION

NORTH AND SOUTH  
ELEVATIONS

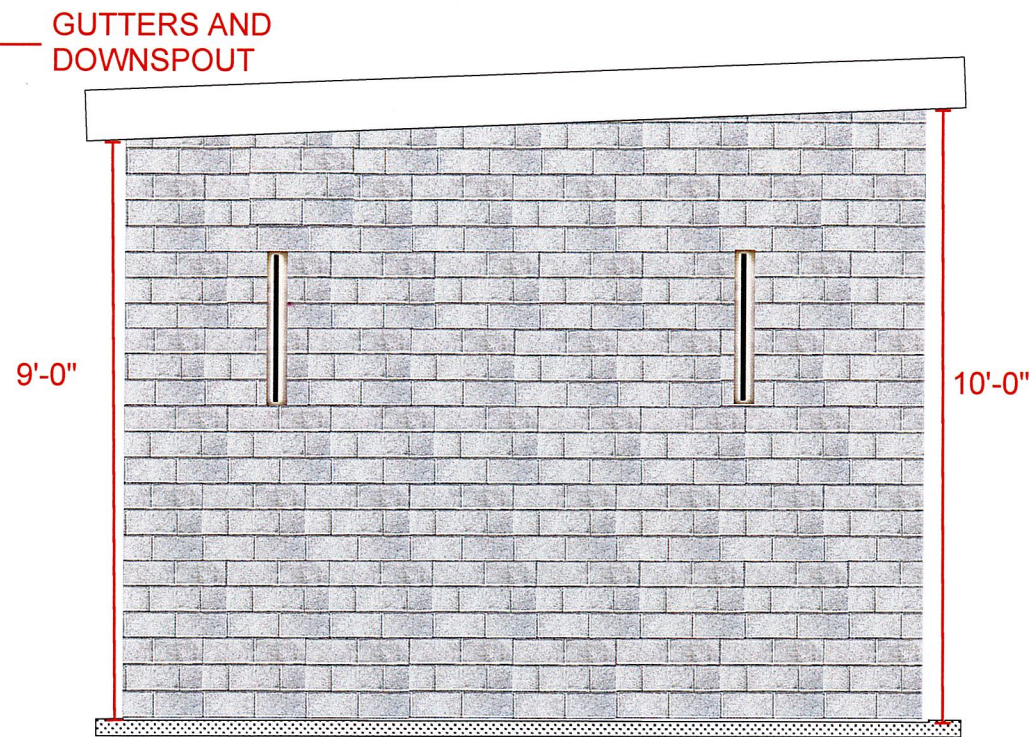
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KINGS GATE PARK

STRUCTURAL S5





EAST ELEVATION

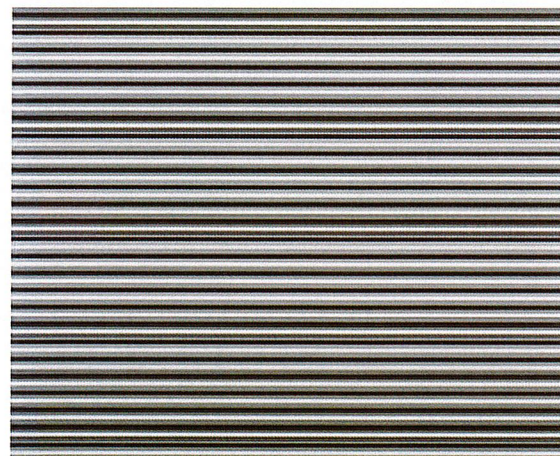


WEST ELEVATION

KINGS GATE PARK  
RESTROOM AND PAVILION

Roll-Up Collection 10 ft. x 8 ft. Non-Insulated Silhouette Gray  
Garage Door without Windows

★★★★★ (1) Questions & Answers (31)



DETAIL J

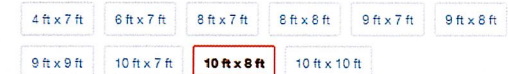
\$898.00

\$75.00/mo\*\* suggested payments with 12 months\*\* financing Apply Now

Garage Door Color: Silhouette Gray



Garage Door Size: 10 ft x 8 ft



Pickup at Weatherford

Delivering to 76086

Ship to Store  
Jun 9 - Jun 10  
488 available  
FREE

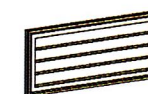
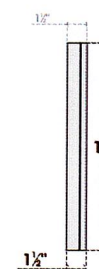
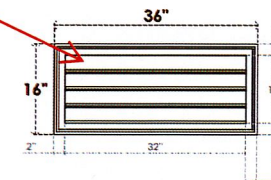
Delivery  
Unavailable



GVPVE36X1602SF

36"W X 16"H RECTANGLE SURFACE MOUNT PVC GABLE VENT: FUNCTIONAL, W/ 2"W X 1-1/2"P BRICKMOLD FRAME

WITH INSECT SCREENING  
INSIDE



FRONT

SIDE

VENTING AREA: 24 SQ IN  
LOUVER HEIGHT: 3"  
LOUVER QTY: 4



EKENA MILLWORK  
2300 WEST MAIN ST.  
CLARKSVILLE, TX 75426  
TOLL FREE: 866-607-0453  
WWW.EKENAMILLWORK.COM

NOTES:  
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.  
2. DRAWING MAY NOT BE TO SCALE.  
3. THIS DRAWING IS INTENDED FOR DESIGN AND PLANNING PURPOSES ONLY.  
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.  
5. ARCHITECTURAL GRADE PVC PRODUCTS ARE MADE FROM EXPANDED CELLULAR PVC AND COME NATURALLY WHITE BUT MAY BE PAINTED.

Generated Date : 08/19/2022

DETAIL K

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KINGS GATE PARK

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