

GENERAL CONSTRUCTION NOTES

1. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH LOCAL LAWS, REGULATIONS, ORDINANCES, BUILDING CODES AND OTHER REQUIREMENTS BEARING ON THE CONDUCT OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS AND APPROVALS NECESSARY FOR THE CONSTRUCTION OF THE PROJECT PRIOR TO ORDERING ANY MATERIALS, FABRICATIONS, OR BEGINNING ANY PERMANENT CONSTRUCTION. FAILURE TO DO SO WILL MAKE THE CONTRACTOR RESPONSIBLE FOR COSTS RESULTING FROM ANY SUBSEQUENT CHANGES REQUIRED FOR APPROVALS AND PERMITS.
2. THE CONTRACTOR SHALL VISIT SITE AND FAMILIARIZE HIMSELF WITH THE BUILDING AND THE WORK. THE CONTRACTOR SHALL SUBMIT WITH HIS BID, A WRITTEN REPORT INDICATING ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE ACTUAL JOB SITE CONDITIONS. ALL WORK SHALL BE LIMITED TO THAT SHOWN ON THE DRAWINGS. NO ADDITIONAL WORK SHALL BE DONE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER. ANY ADDITIONAL WORK PERFORMED WITHOUT HIS CONSENT SHALL BE DONE AT THE CONTRACTOR'S SOLE EXPENSE.
3. THE CONTRACTOR IS TO PATCH, REPAIR, REFINISH, ETC. AS NEEDED ANY WORK DISTURBED IN THE COURSE OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PERFORM THE WORK IN HIGHEST QUALITY WORKMANSHIP. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH CUSTOMARY CONSTRUCTION BUILDING STANDARDS THE ABOVE INCLUDES SUBMITTALS AND GENERAL CONDITIONS. THE SCOPE OF THESE DOCUMENTS MANDATES THAT SAID STANDARDS BE IN COMPLIANCE WITH ALL APPLICABLE CODES. IT SHALL BE THE CONTRACTOR'S DUTY TO VERIFY SAID COMPLIANCE. IF FOUND TO BE OUT OF COMPLIANCE OR SUB-STANDARD, THE CONTRACTOR SHALL CORRECT, WITHOUT EXCEPTION, ANY DEFICIENCIES NOTED BY THE ARCHITECT.
5. DO NOT SCALE FROM THESE DRAWINGS. ALL DIMENSIONS ARE TO FACE OF STUD OR STRUCTURAL GRID LINES UNLESS NOTED OTHERWISE.
6. FINISH WORK SHALL BE SMOOTH, FREE FROM ABRASION, TOOL MARKS, RAISED GRAIN, ETC. ON EXPOSED SURFACES. TO THE HIGHEST EXTENT POSSIBLE, ALL FASTENINGS AND ATTACHMENTS SHALL BE FULLY CONCEALED FROM VIEW AND FREE FROM SHARP OR DANGEROUS PROTRUSIONS.
7. ALL CONCEALED WOOD BLOCKING OR BRACING REQUIRED FOR CONSTRUCTION OF THIS PROJECT TO BE TREATED FIRE RETARDANT LUMBER. PROVIDE BLOCKING AT WALLS SPECIFIED TO RECEIVE WALL MOUNTED FIXTURES.
8. ALL GYPSUM WALLBOARD CONSTRUCTION SHALL CONFORM TO RECOMMENDATIONS AND INSTRUCTIONS PUBLISHED BY UNITED STATE GYPSUM COMPANY IN THE GYPSUM CONSTRUCTION HANDBOOK. THE ABOVE SHALL INCLUDE ALL LIGHT GAUGE STUDS AND HANGERS.
9. PRIOR TO ORDERING FINISHED MATERIALS, THE CONTRACTOR SHALL SUBMIT CURRENT PRODUCTION SAMPLES OF EACH MATERIAL SPECIFIED (I.E. PAINT, EIFS, BRICKS, STONES, MARBLE, TILE, VCT, PLASTIC LAMINATE, ETC.) TO THE ARCHITECT. FAILURE TO DO SO WILL MAKE THE CONTRACTOR RESPONSIBLE FOR ANY CHANGES REQUESTED BY THE ARCHITECT OR THE OWNER.
10. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH TWO COPIES OF BROCHURES, CUTS, SHOP DRAWINGS, OPERATION MANUALS FOR ALL EQUIPMENT AND MATERIALS INSTALLED ON THE PROJECT. REFERENCE TO OWNER PROVIDED CLOSE-OUT MANUAL FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
12. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, DIMENSIONS AT VARIANCE WITH THOSE SHOWN ON THE PLANS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT. FAILURE TO FIELD VERIFY DIMENSIONS PRIOR TO PLACING PERMANENT WALLS OR FIXTURES OR ORDERING FABRICATIONS, MATERIALS, OR EQUIPMENT WILL MAKE THE CONTRACTOR RESPONSIBLE FOR COSTS OF ANY NECESSARY ADJUSTMENTS.
13. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER TO CLEARLY DEFINE MATERIALS AND WORK PROVIDED BY THE GENERAL CONTRACTOR, MATERIALS AND WORK TO BE COMPLETED BY OTHERS, AND MATERIALS PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.
14. ALL EMERGENCY LIGHTING AND EXIT SIGNS SHALL HAVE BACK-UP FOR OPERATION DURING INTERRUPTION OF POWER SERVICE TO THE BUILDING. PLEASE REFER TO ELECTRICAL DRAWINGS OR REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.
15. SIGNS, LOCATIONS, NUMBER AND SIZE ARE NOT APPROVED UNDER THIS BUILDING PERMIT. A SEPARATE PERMIT IS REQUIRED FOR EACH SIGN.
16. DOORS IN EXITS SHALL NOT BE SUBJECT TO THE USE OF A KEY FOR OPERATION FROM THE INSIDE OF THE BUILDING. EVERY DOOR INSIDE AND OUTSIDE THE BUILDING SHALL BE PROVIDED WITH HANDICAP HARDWARE (LEVERS, PANIC HARDWARE, OR U-SHAPE DESIGNED DEVICES, ETC.). THE FLOOR ON BOTH SIDES OF A DOOR SHALL BE LEVEL AND SHALL HAVE THE SAME ELEVATION ON BOTH SIDES OF THE DOOR, FOR A DISTANCE ON EACH SIDE AT LEAST EQUAL TO THE WIDTH OF THE WIDEST SINGLE DOOR.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND FOR COMPLIANCE WITH SAFETY GUIDELINES, PROCEDURES AND REGULATIONS. THE ARCHITECT SHALL NOT BE RESPONSIBLE FOR ANY MEANS, METHODS OR SAFETY PROCEDURES.
18. INTERIOR AND EXTERIOR SIGNAGE SHALL BE SUPPLIED AND INSTALLED BY CONTRACTOR'S VENDOR. INCLUDING FOR STREET ADDRESS & RESTROOM SIGNAGE WHICH SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR IN FULL COMPLIANCE WITH A.D.A./TAS
19. ALL GLASS IN DOORS AND GLASS PANELS ADJACENT TO DOORS MUST BE TEMPERED. ALL FULL HEIGHT GLASS MUST BE TEMPERED
20. THE GENERAL CONTRACTOR SHALL INSURE PROPER SOIL COMPACTION. IN ADDITION, HE/SHE SHALL INSURE THAT ALL FINISH GRADES SLOPE AWAY FROM BUILDING FOR POSITIVE DRAINAGE. REFERENCE TO STRUCTURAL AND CIVIL DRAWINGS FOR MIN. SOIL BEARING CAPACITY, COMPACTION AND SLOPE REQUIREMENTS. REGARDLESS OF THE CONTENT OF THESE DRAWINGS, THE CONTRACTOR IS REQUIRED TO INSURE POSITIVE DRAINAGE PRIOR TO COMPLETING CONSTRUCTION. ANY AND ALL CORRECTIVE DRAINAGE WORK SHALL BE DONE AT THE CONTRACTOR'S SOLE EXPENSE.
21. INSPECTION AND LABORATORY TESTING FEES SHALL BE PAID FOR BY THE OWNER. ALL PERMIT FEES AND INSPECTIONS SHALL BE PAID FOR BY THE GENERAL CONTRACTOR. THE OWNER SHALL PAY FOR ALL IMPACT FEES. (INCLUDING TRANSPORTATION AND SANITARY SEWER) HOWEVER, SANITARY SEWER TAP FEES, SPRINKLER TAP FEES, WATER METER FEES, AND DETECTION VALVE TAP FEES, IF ANY, SHALL BE PAID FOR BY THE CONTRACTOR. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE LOCATION, INSTALLATION AND ROUGH GRATING FOR ALL OF THE ABOVE EQUIPMENT.
22. CONCRETE TESTING AS REQUIRED BY STRUCTURAL DRAWINGS SHALL BE PROVIDED AND PAID FOR BY THE OWNER AND COORDINATED BY THE CONTRACTOR.
23. ALL EXPOSED METALS INCLUDING FASTENERS SHALL BE SMOOTH AND FREE OF ABRASIONS AND EXCESSIVE WELDS. PRIME AND PAINT (COLOR TO BE SELECTED BY ARCHITECT) WITH THE FOLLOWING EXCEPTIONS:

ROOF BAR JOISTS:

INT. EXP. METAL DECKING:

STRUCTURAL STEEL:

PRIMED GREY ONLY

PRIMED GREY ONLY

PRIMED GREY ONLY

ANY EXPOSED STRUCTURAL STEEL SHALL BE PAINTED PER SPECIFICATIONS IN ADDITION TO PRIMER.

ALL EXPOSED METALS (ELECTRICAL OR PLUMBING) SHALL BE PAINTED (COLOR PER ARCHITECT) PER SPECIFICATIONS IN ADDITION TO PRIMER.
24. CONTRACTOR TO COORDINATE THE LOCATION OF ALL UTILITIES AND EQUIPMENT WITH THE UTILITY COMPANIES. COORDINATE THE LOCATION OF ALL CONDUITS, WATER AND SANITARY PIPES UNDER PADS AND WALKWAYS. VERIFY COMPLIANCE WITH ALL LOCAL AND AND STATE CODES. LOCATE ALL UTILITIES PRIOR TO EXCAVATION.
25. ELECTRICAL OUTLET OR SWITCH BOXES ARE NOT PERMITTED ADJACENT TO EACH OTHER IN RATED FIREWALL CONSTRUCTION. THE BOXES MUST BE SPACED A MINIMUM 2'-FT. LATEROALLY APART OR PROVIDED WITH FIRE PUTTY PADS EQUIVALENT TO THE FIREWALL RATING.
26. NOTE TO CONTRACTOR: FIREWALL AND/OR FIRE BARRIER STENCILING MUST BE LABELED ON ALL FIREWALLS. FIRE BARRIERS OR SMOKE BARRIERS PER IBC SECTION 703.5. THE LABELING MUST BE INSTALLED ABOVE THE SUSPENDED CEILINGS @ 12'-FT. O.C. STATING: "1-HR RATED FIRE OF SMOKE BARRIER, PROTECT ALL OPENINGS".
27. CONTRACTOR SHALL PROVIDE THE STREET ADDRESS (SUITE #) WHICH MUST BE VISIBLE FROM THE ROAD. NUMBER MUST BE A MINIMUM OF 8" IN HEIGHT AND HAVE A MINIMUM STROKE WIDTH OF 1/2 INCH. THE NUMBERS MUST BE IN CONTRASTING COLOR TO THE BUILDING MATERIALS OR "SILVER" IF PLACED ON GLASS.

ROSWELL PUBLIC LIBRARY

CHILDREN'S GARDEN

301 N. PENNSYLVANIA AVE.
ROSWELL, NM 88201



SHEET INDEX

G1.0 COVER SHEET		ARCHITECTURAL SHEETS		MEP SHEETS	
C1.0 CIVIL SITE PLAN	A0.1	ARCHITECTURAL CODE SHEET	P101	PLUMBING SITE PLAN	
	A1.0	DEMO SITE PLAN	ES101	ELECTRICAL SITE PLAN	
	A1.1	SITE IMPROVEMENTS PLAN	ES201	ELECTRICAL SPECIFICATIONS	
	A1.2	DIMENSION SITE PLAN			
	A1.3	FRAMING AND FIXTURES SITE PLAN			
	A2.1	ARCH 3D IMAGES			
	A2.2	ARCH 3D DETAILS			
	A2.3	ARCH 3D DETAILS			
	A3.1	ARCHITECTURAL DETAILS			
	A3.2	ARCHITECTURAL DETAILS			
	A3.3	ARCHITECTURAL DETAILS			
	A3.4	ARCHITECTURAL DETAILS			
	A4.1	ARCHITECTURAL SPECIFICATIONS			
	A4.2	ARCHITECTURAL SPECIFICATIONS			
	A4.3	DOOR AND WINDOW SCHEDULE			

PROJECT INFORMATION

PROJECT CONTACT INFORMATION

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CARL@BSAENGINEERING.COM

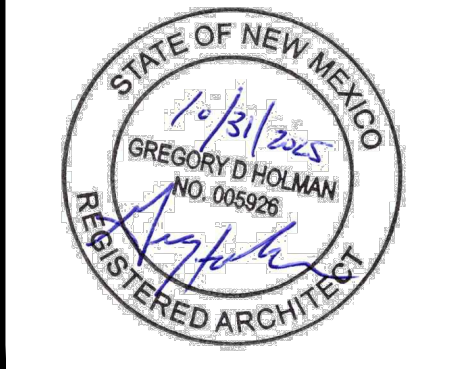
BRENT DEVITT (ELECTRICAL)
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PROJECT DESCRIPTION

PROJECT CONSISTS OF EXISTING EXTERIOR LANDSCAPE AREA TO BE CONVERTED TO OUTDOOR CHILDREN'S PLAY AND LEARN AREA. ENTIRE AREA TO BE FENCED AND PROVIDED WITH EMERGENCY EXITING, SITE LIGHTING AND SECURITY CAMERAS.



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601 West 2nd St., SUITE 8
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STRUCTURAL ENGINEER

CIVIL ENGINEER

INTERIOR DESIGNER

PROJECT NAME:
ROSWELL PUBLIC LIBRARY
CHILDREN'S GARDEN
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NO.	DATE	DESCRIPTION
01	-	-

DATE: 10.31.2025

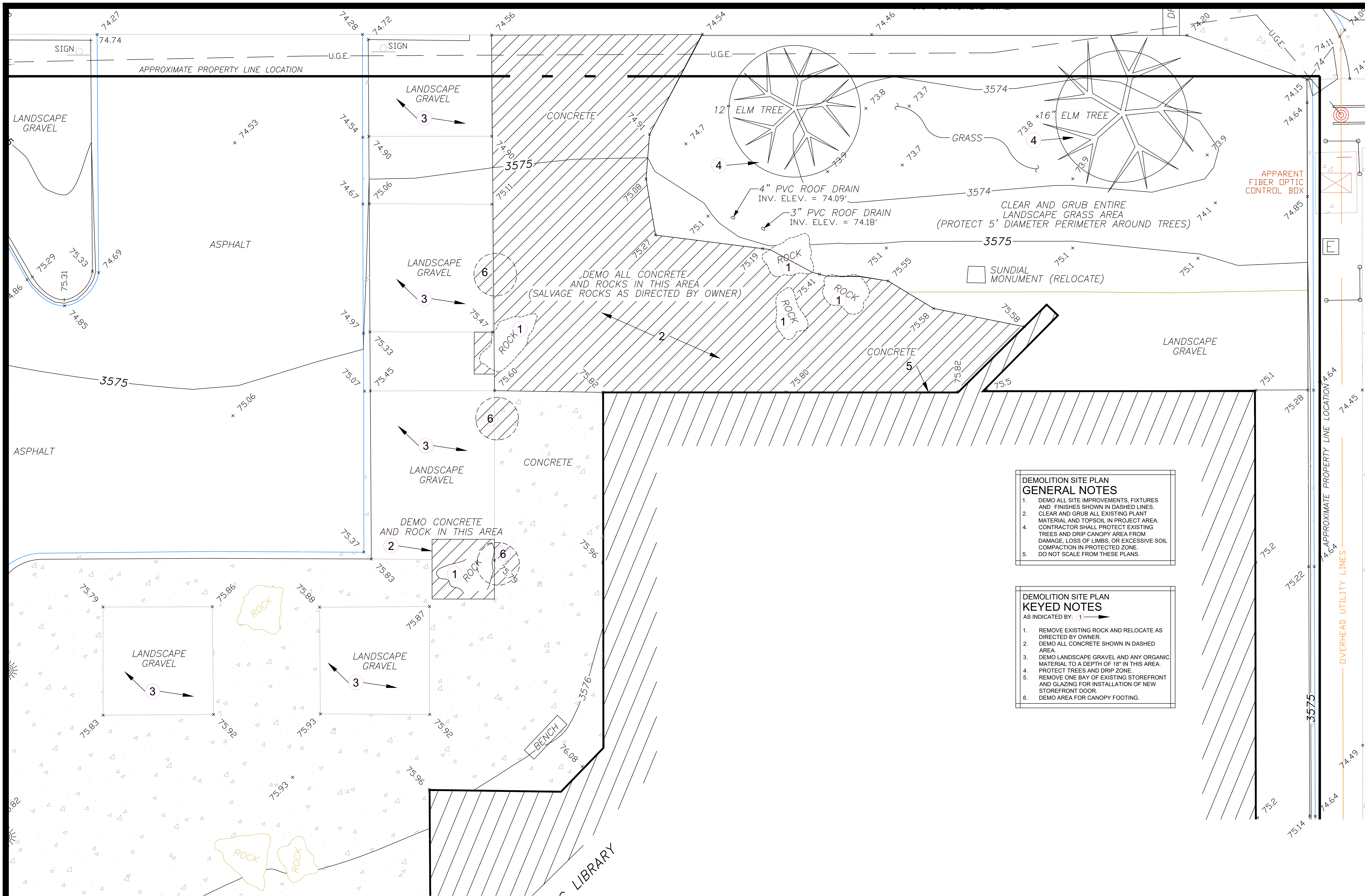
SHEET NAME:

COVER SHEET

SHEET NUMBER:

G1.0

RECORDED DATE
OF ISSUE
10/31/2025
Gregory D. Holman NM# 5926

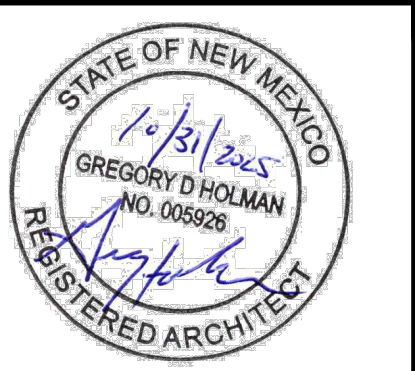


DEMO SITE PLAN

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



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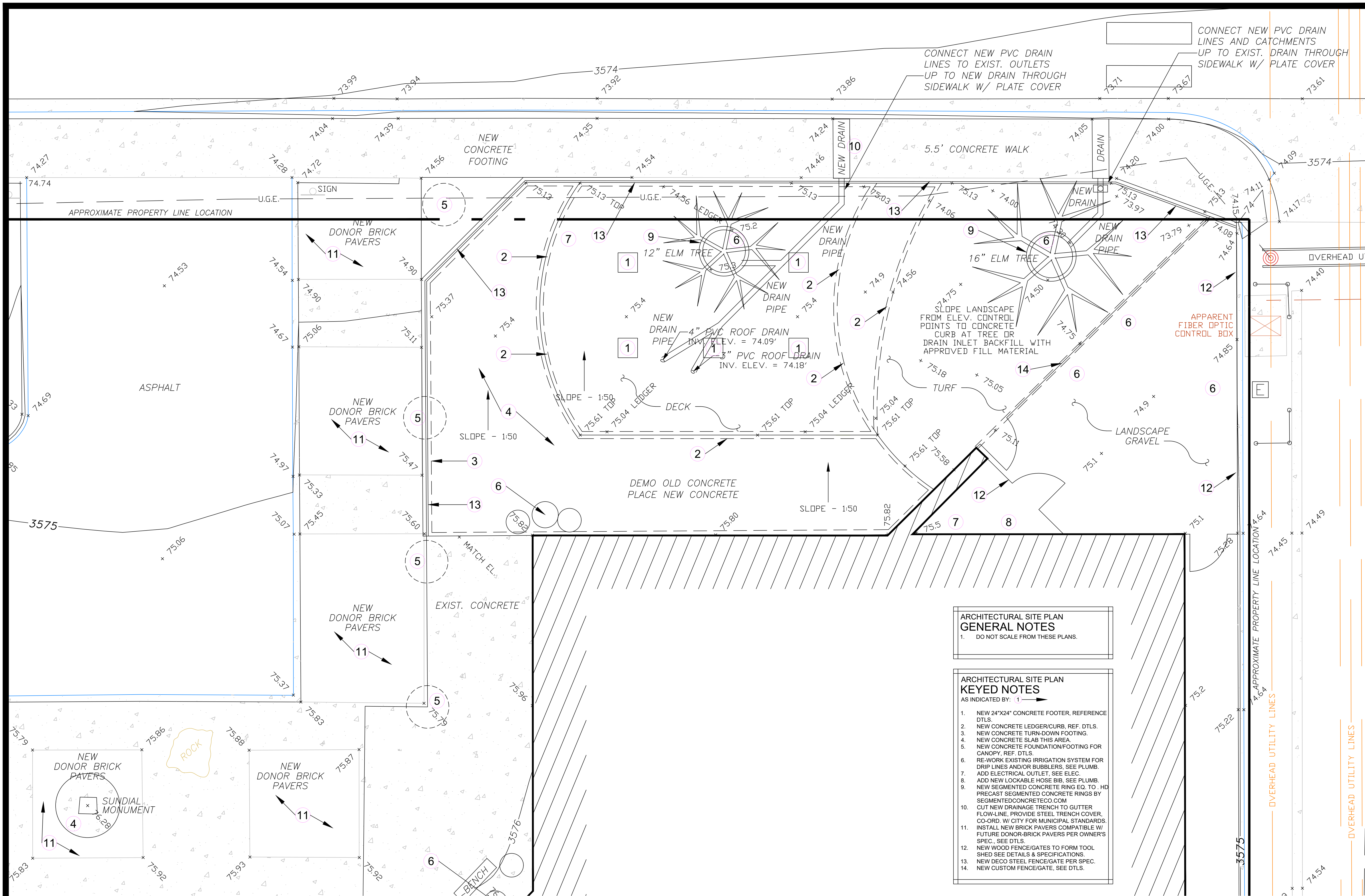
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DEMO SITE
PLAN

SHEET NUMBER:
A1.0



SITE IMPROVEMENT PLAN

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

ARCHITECTURAL SITE PLAN GENERAL NOTES

1. DO NOT SCALE FROM THESE PLANS.

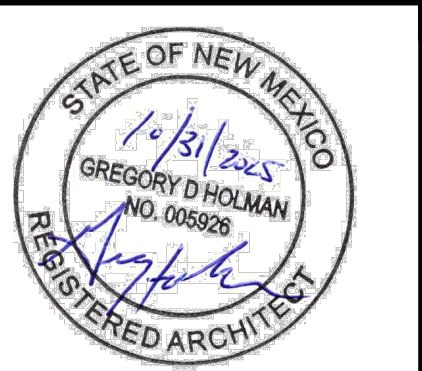
ARCHITECTURAL SITE PLAN KEYED NOTES

AS INDICATED BY: 1

1. NEW 24"x24" CONCRETE FOOTER, REFERENCE DTLS.
2. NEW CONCRETE LEDGER/CURB, REF. DTLS.
3. NEW CONCRETE TURN-DOWN FOOTING.
4. NEW CONCRETE SLAB THIS AREA.
5. NEW CONCRETE FOUNDATION/FOOTING FOR CANOPY, REF. DTLS.
6. RE-WORK EXISTING IRRIGATION SYSTEM FOR DRIP LINES AND/OR BUBBLERS, SEE PLUMB.
7. ADD ELECTRICAL OUTLET, SEE ELEC.
8. ADD NEW LOCKABLE HOSE BIB, SEE PLUMB.
9. NEW SEGMENTED CONCRETE RING EQ. TO . HD PRECAST SEGMENTED CONCRETE RINGS BY SEGMENTEDCONCRETECO.COM
10. CUT NEW DRAINAGE TRENCH TO GUTTER FLOW-LINE, PROVIDE STEEL TRENCH COVER, CO-ORD. W/ CITY FOR MUNICIPAL STANDARDS.
11. INSTALL NEW BRICK PAVERS COMPATIBLE W/ FUTURE DONOR-BRICK PAVERS PER OWNER'S SPEC., SEE DTLS.
12. NEW WOOD FENCE/GATES TO FORM TOOL SHED SEE DETAILS & SPECIFICATIONS.
13. NEW DECO STEEL FENCE/GATE PER SPEC.
14. NEW CUSTOM FENCE/GATE, SEE DTLS.



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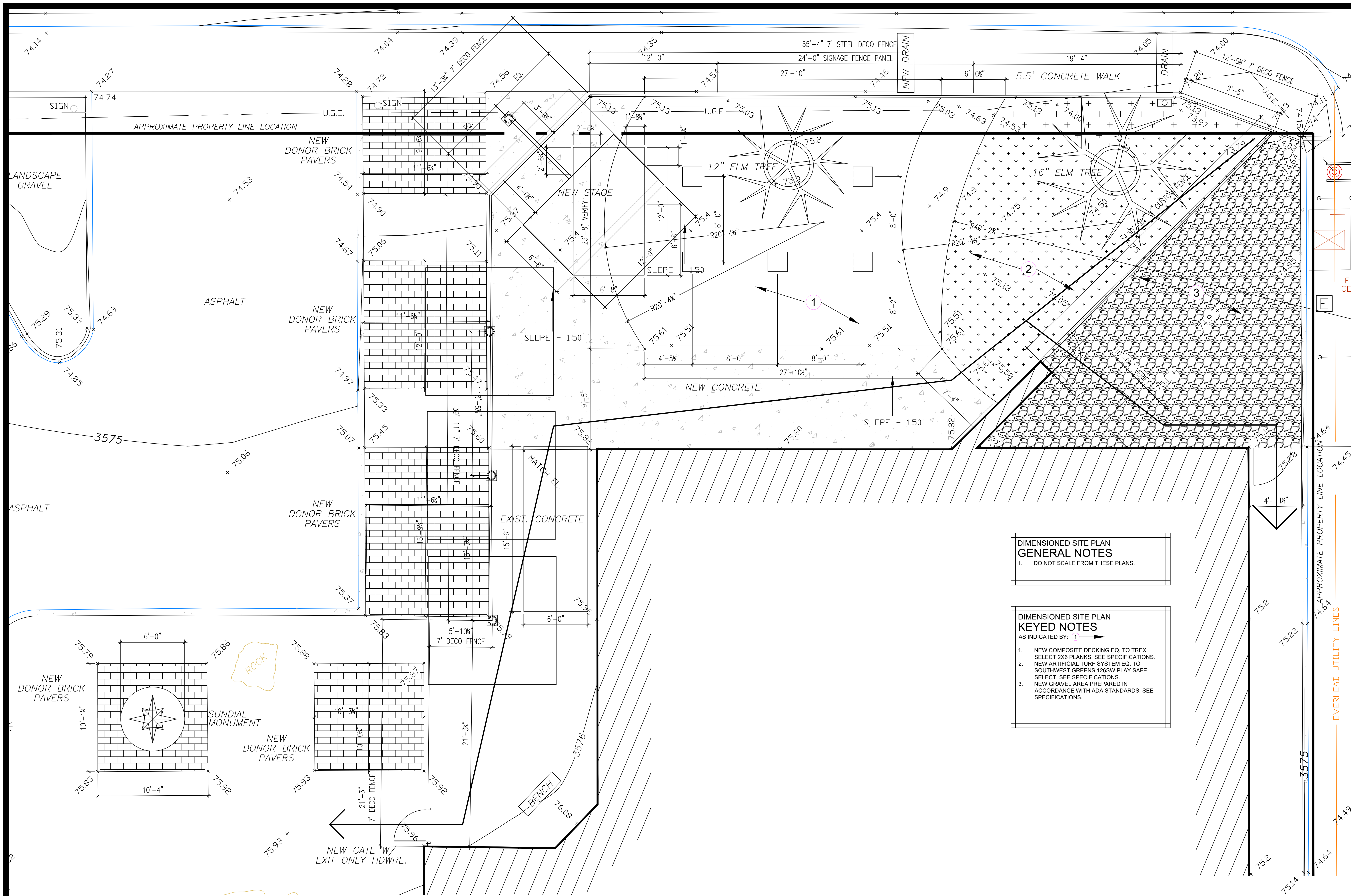
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SHEET NAME:
SITE
IMPROVEMENT
PLAN
SHEET NUMBER:

A1.1



DIMENSION SITE PLAN - NEW WORK & MATERIALS
SCALE: 1/4" = 1'-0"

Space Planning

Architecture

Interior Design

Construction Management

STUDIO 27

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STATE OF NEW MEXICO

10/31/2025

GREGORY D HOLMAN

NO. 009928

REGISTERED ARCHITECT

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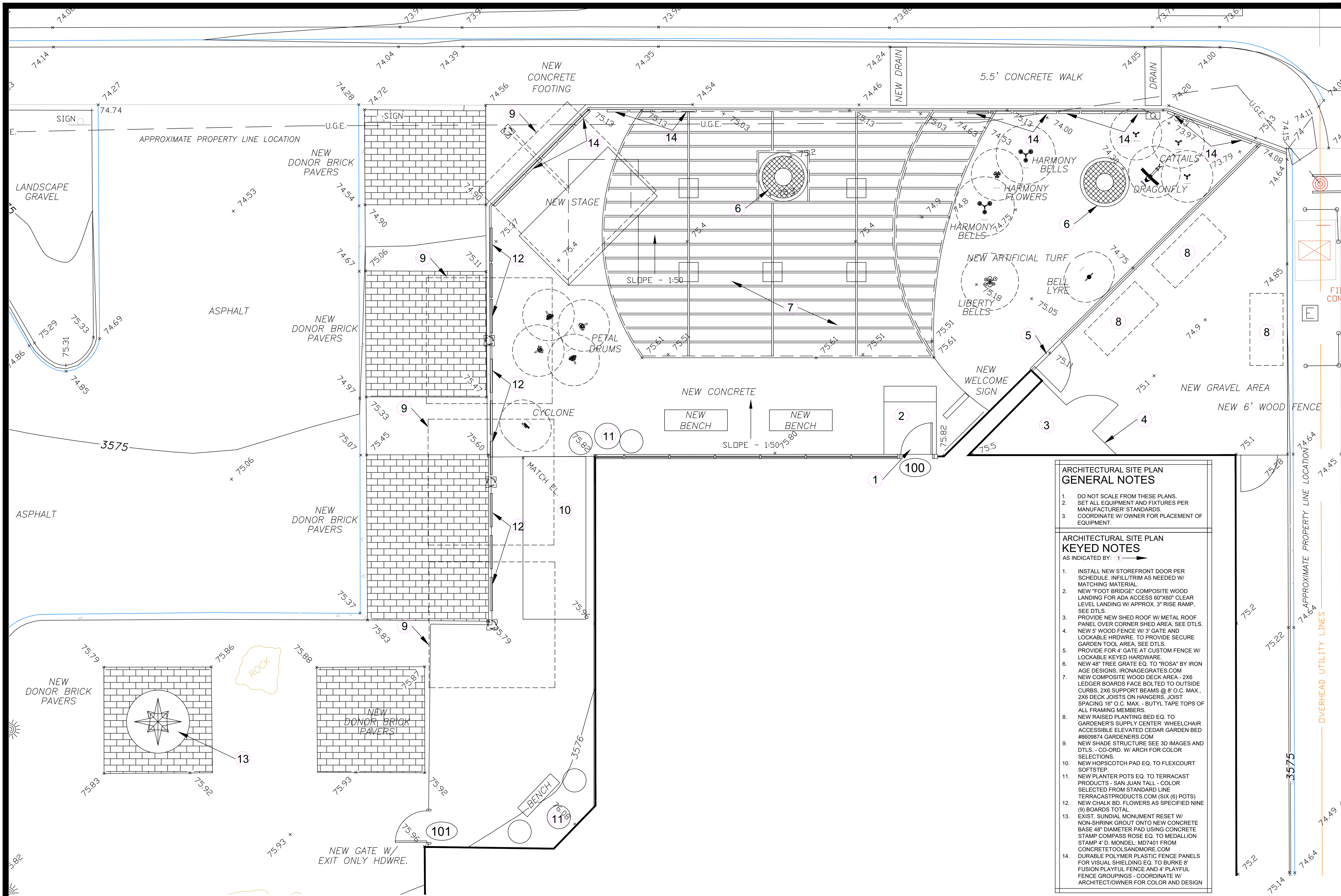
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SHEET NAME:

DIMENSION SITE PLAN

SHEET NUMBER:

A1.2



- ARCHITECTURAL SITE PLAN
GENERAL NOTES**
- DO NOT SCALE FROM THESE PLANS.
 - SET ALL EQUIPMENT AND FIXTURES PER MANUFACTURER STANDARDS.
 - COORDINATE W/ OWNER FOR PLACEMENT OF EQUIPMENT.
- ARCHITECTURAL SITE PLAN
KEYED NOTES**
- AS INDICATED BY: 1
- INSTALL NEW STOREFRONT DOOR PER SCHEDULE. INFILL/TRIM AS NEEDED W/ MATCHING MATERIAL.
 - NEW "FOOT BRIDGE" COMPOSITE WOOD LANDING FOR ADA ACCESS 60"x80" CLEAR LEVEL LANDING W/ APPROX. 3" RISE RAMP, SEE DTLS.
 - PROVIDE NEW SHED ROOF W/ METAL ROOF PANEL OVER CORNER SHED AREA, SEE DTLS.
 - NEW 5' WOOD FENCE W/ 3' GATE AND LOCKABLE HRDWRE. TO PROVIDE SECURE GARDEN TOOL AREA, SEE DTLS.
 - PROVIDE FOR 4' GATE AT CUSTOM FENCE W/ LOCKABLE KEYED HARDWARE.
 - NEW 48" TREE GRATE EQ. TO "ROSA" BY IRON AGE DESIGNS. IRONAGEGRATES.COM
 - NEW COMPOSITE WOOD DECK AREA - 2X8 LEDGER BOARDS FACE BOLTED TO OUTSIDE CURBS. 2X6 SUPPORT BEAMS @ 8' O.C. MAX. 2X6 DECK JOISTS ON HANGERS, JOIST SPACING 16" O.C. MAX. - BUTYL TAPE TOPS OF ALL FRAMING MEMBERS.
 - NEW RAISED PLANTING BED EQ. TO GARDENERS SUPPLY CENTER. WHEELCHAIR ACCESSIBLE ELEVATED CEDAR GARDEN BED #8609874 GARDENERS.COM
 - NEW SHADE STRUCTURE SEE 3D IMAGES AND DTLS. - CO-ORD. W/ ARCH FOR COLOR SELECTIONS.
 - NEW HOPSOTCH PAD EQ. TO FLEXCOURT SOFTSTEP.
 - NEW PLANTER POTS EQ. TO TERRACAST PRODUCTS - SAN JUAN TALL - COLOR SELECTED FROM STANDARD LINE TERRACASTPRODUCTS.COM (SIX (6) POTS)
 - NEW CHALK BD. FLOWERS AS SPECIFIED NINE (9) BOARDS TOTAL.
 - EXIST. SUNDIAL MONUMENT RESET W/ NON-SHRINK GROUT ONTO NEW CONCRETE BASE 48" DIAMETER PAD USING CONCRETE STAMP COMPASS ROSE EQ. TO MEDALLION STAMP 4" D. MONDEL: MD7401 FROM CONCRETETOOL.SANDCORE.COM
 - DURABLE POLYMER PLASTIC FENCE PANELS FOR VISUAL SHIELDING EQ. TO BURKE 8' FUSION PLAYFUL FENCE AND 4' PLAYFUL FENCE GROUPINGS - COORDINATE W/ ARCHITECT/OWNER FOR COLOR AND DESIGN

FRAMING AND SITE FIXTURES

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



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SHEET NAME:
FRAMING &
SITE FIXTURES
PLAN
SHEET NUMBER:

A1.3



01 OVERALL 3D VIEW
NO SCALE



02 OVERALL 3D VIEW
NO SCALE



03 3D VIEW WALLFLOWERS
NO SCALE

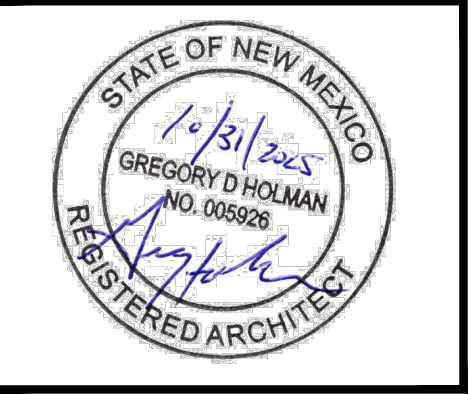


04 3D VIEW STAGE AREA
NO SCALE

3D RENDERED IMAGES FOR REFERENCE
ONLY - PLEASE VERIFY W/ DETAIL
SHEETS & SPECIFICATIONS FOR
CONSTRUCTION REQUIREMENTS
Gregory D. Holman NM#5926



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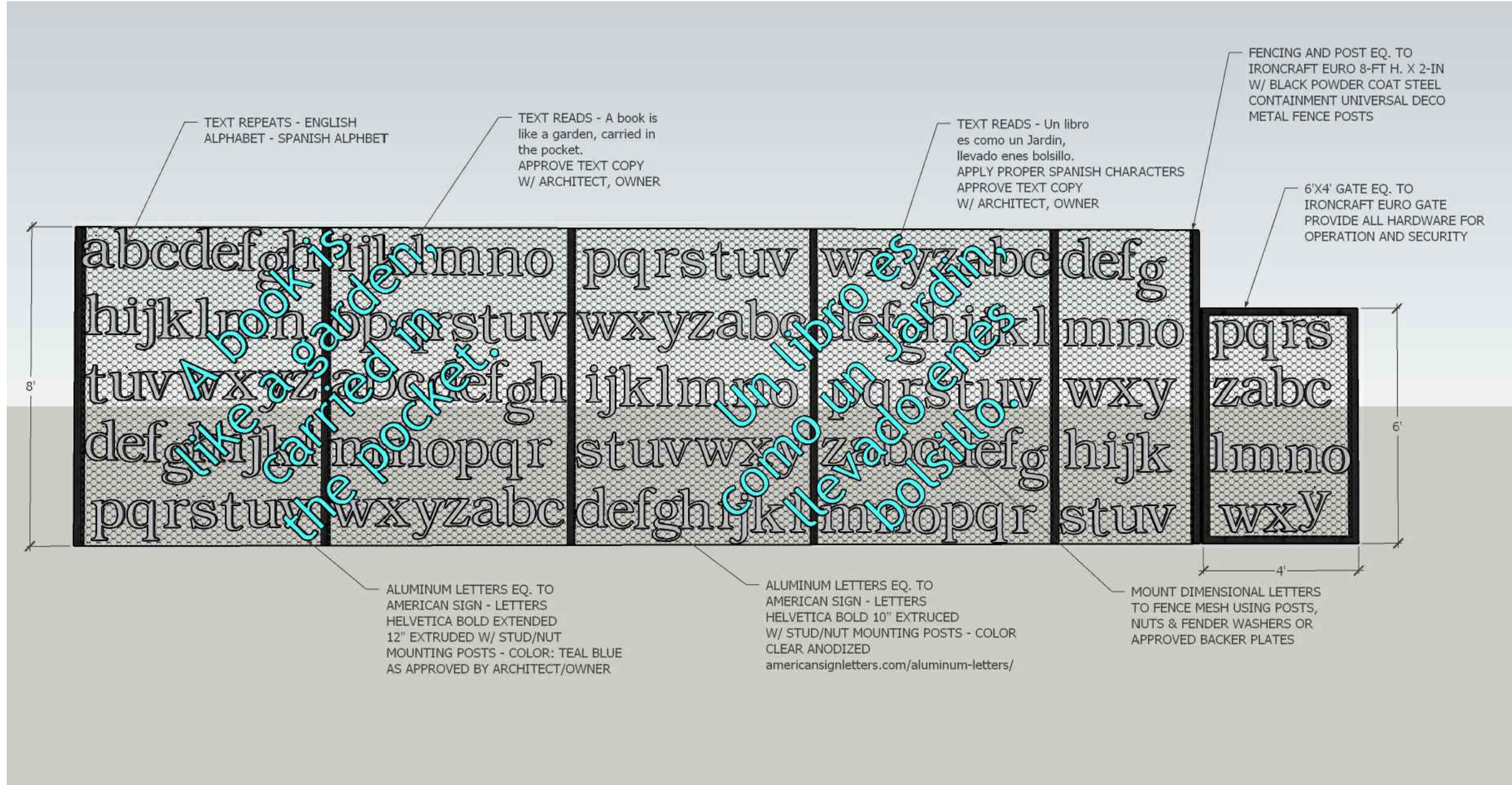
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ARCHITECTURAL
3D VIEWS

SHEET NUMBER:
A2.1

NOT USED

01 3D VIEW WALLFLOWERS

NO SCALE

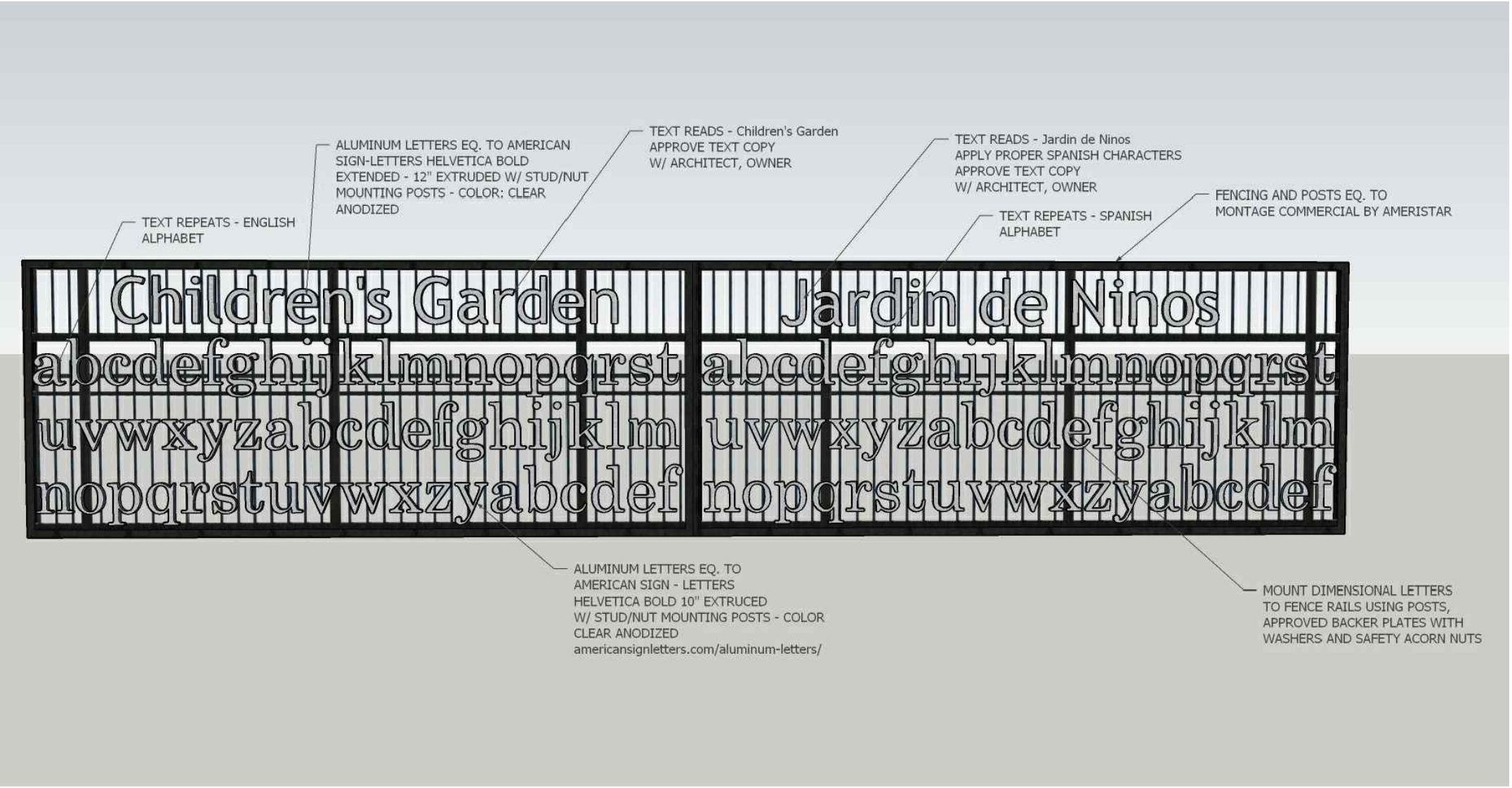


03 3D VIEW CUSTOM STEEL FENCE

NO SCALE

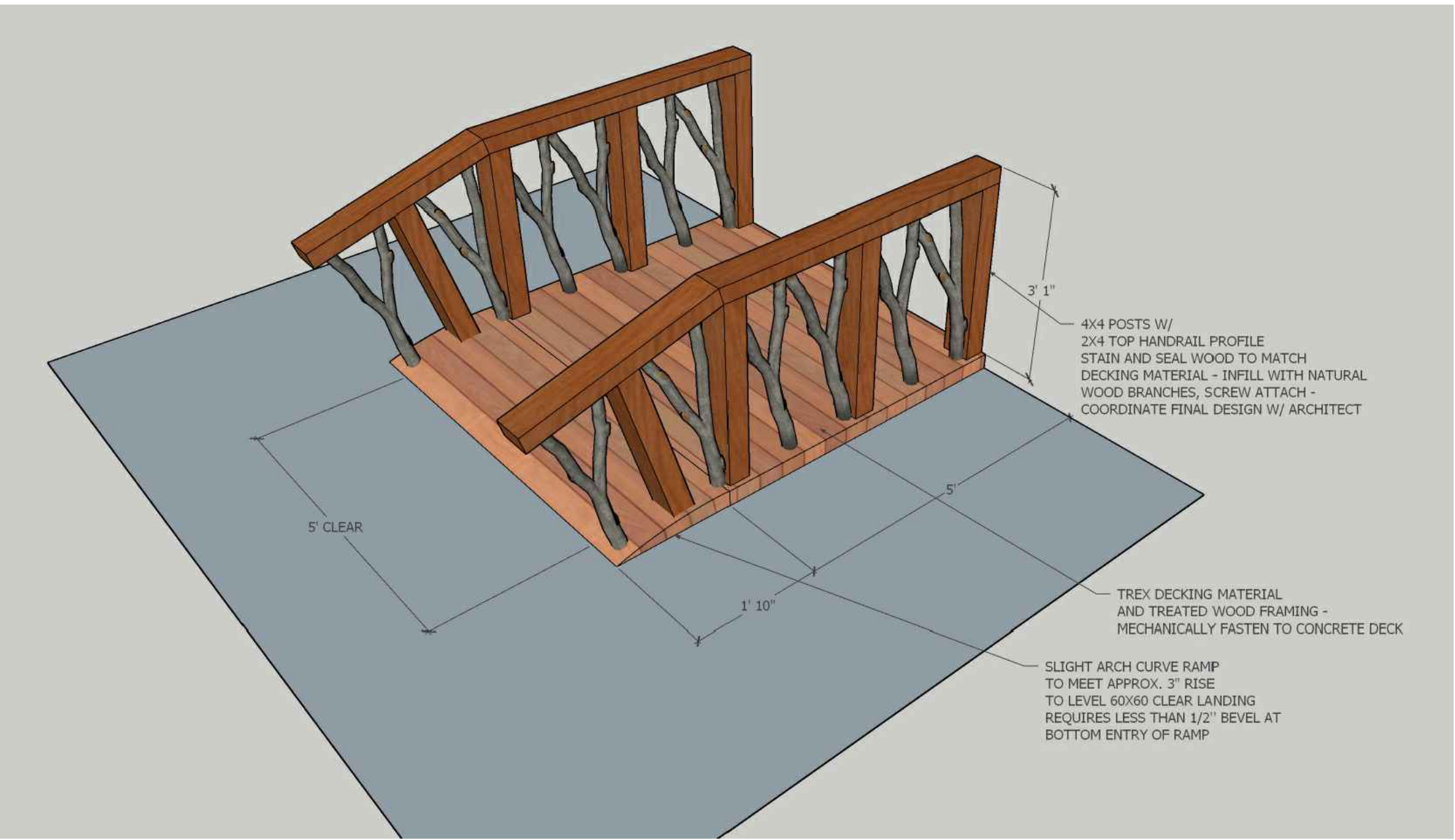
02 3D VIEW CHIDREN'S GARDEN SIGNAGE FENCE

NO SCALE

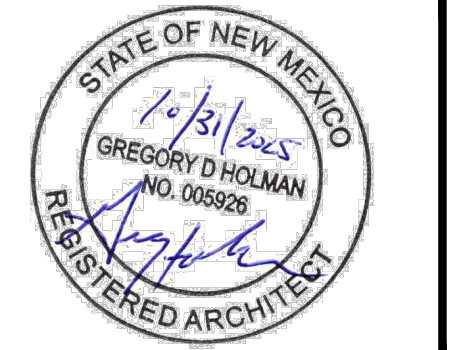


04 3D DETAILS - WALKING BRIDGE

NO SCALE



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CIVIL ENGINEER

INTERIOR DESIGNER

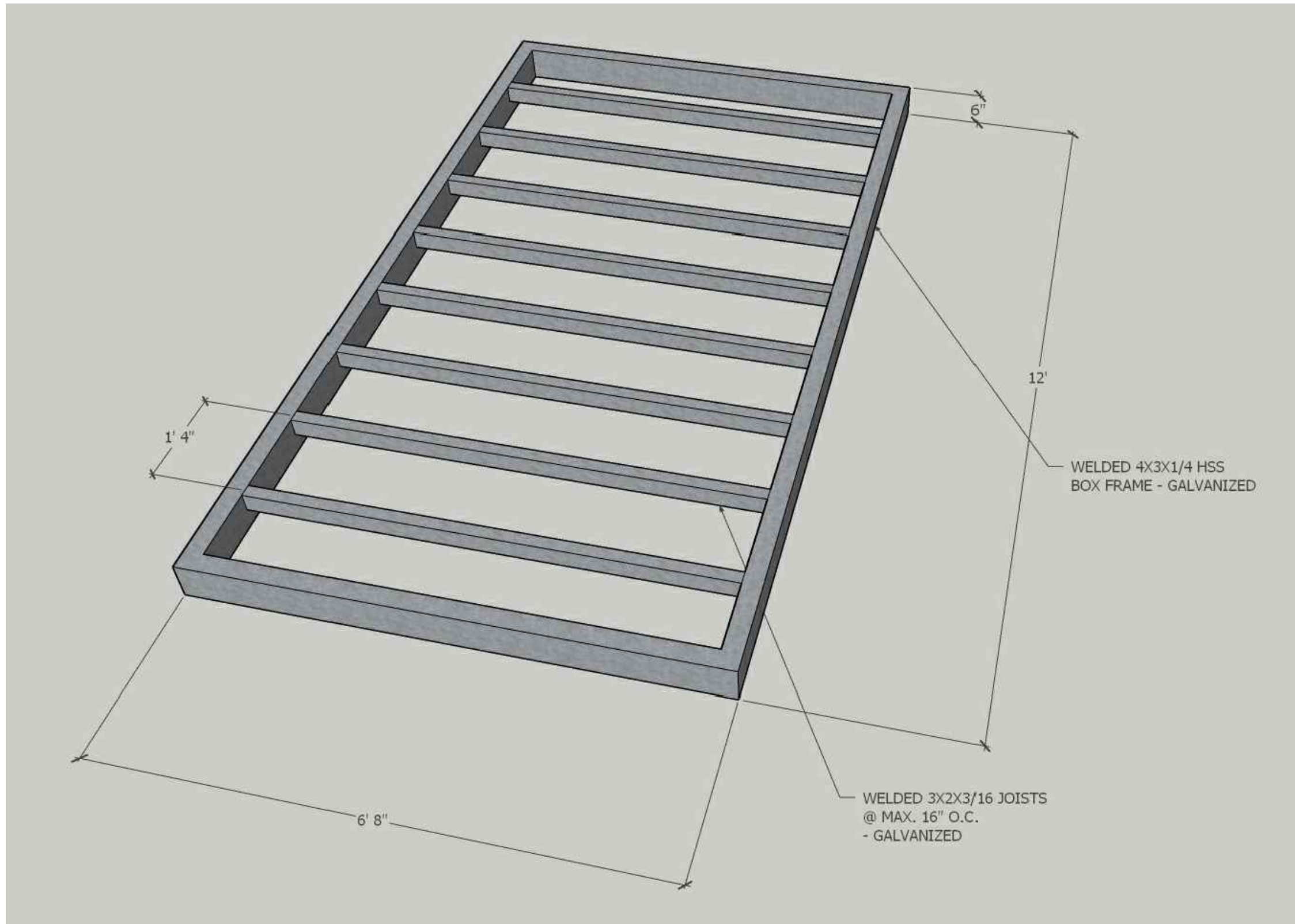
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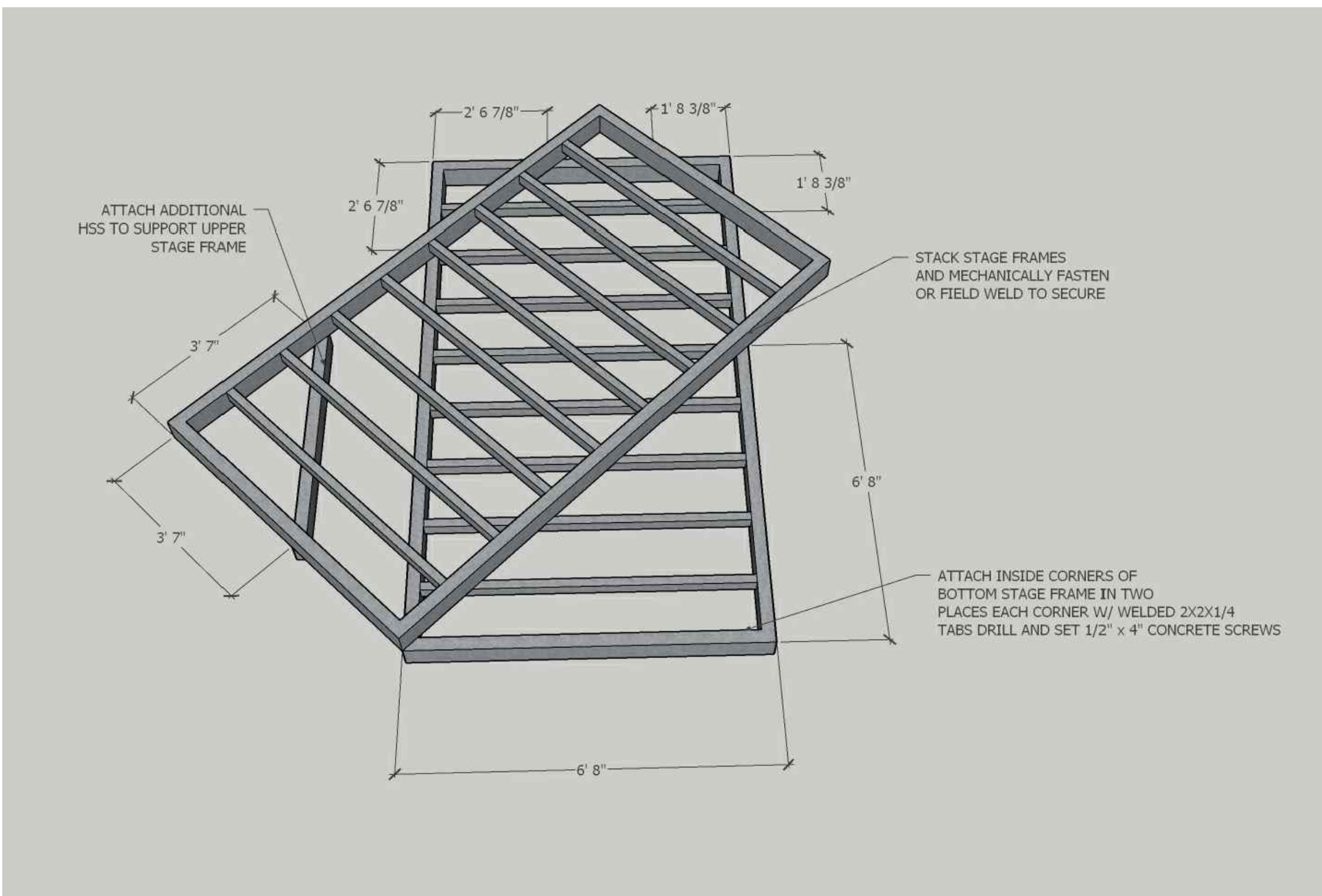
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ARCHITECTURAL
3D DETAILS

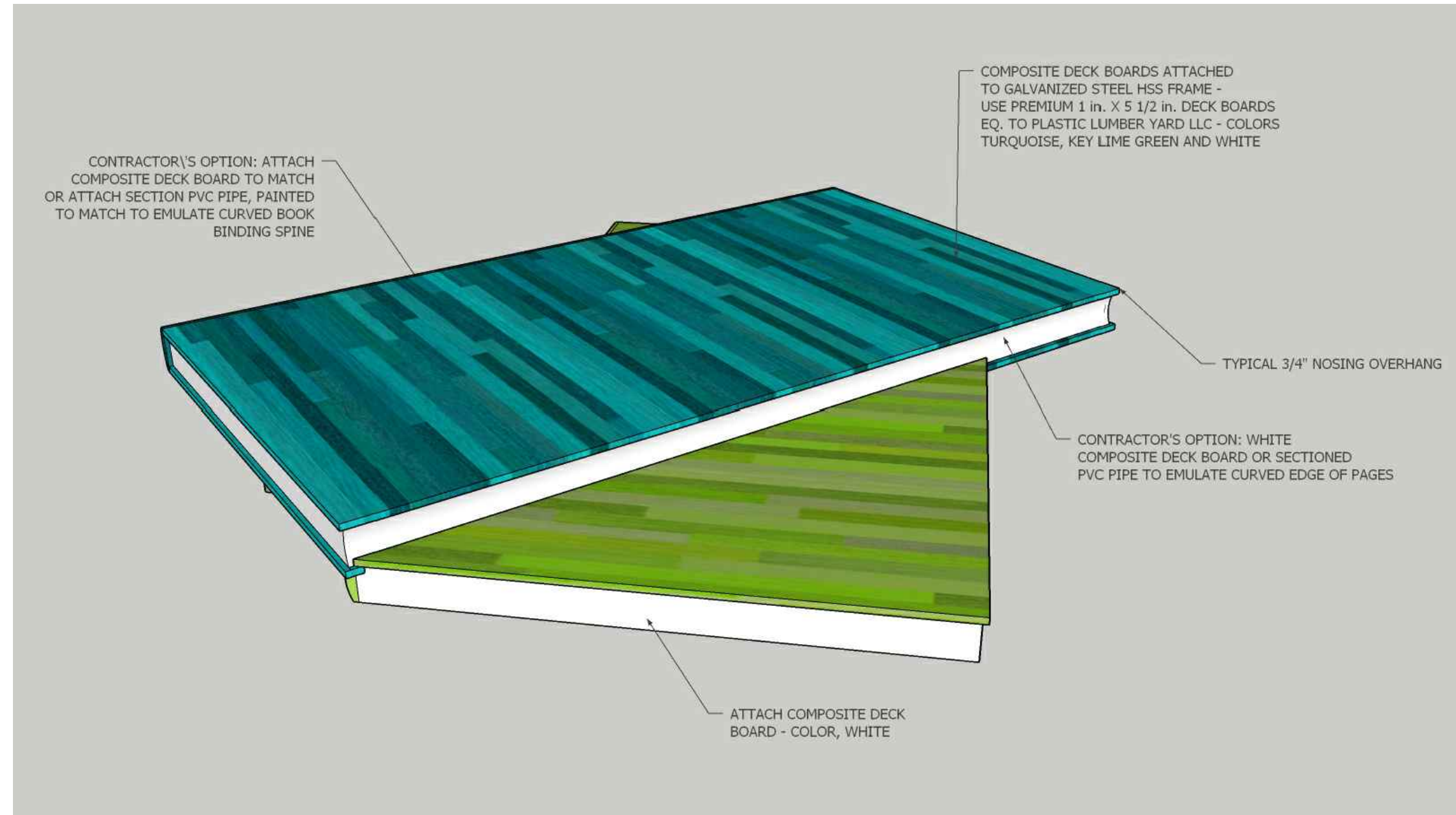
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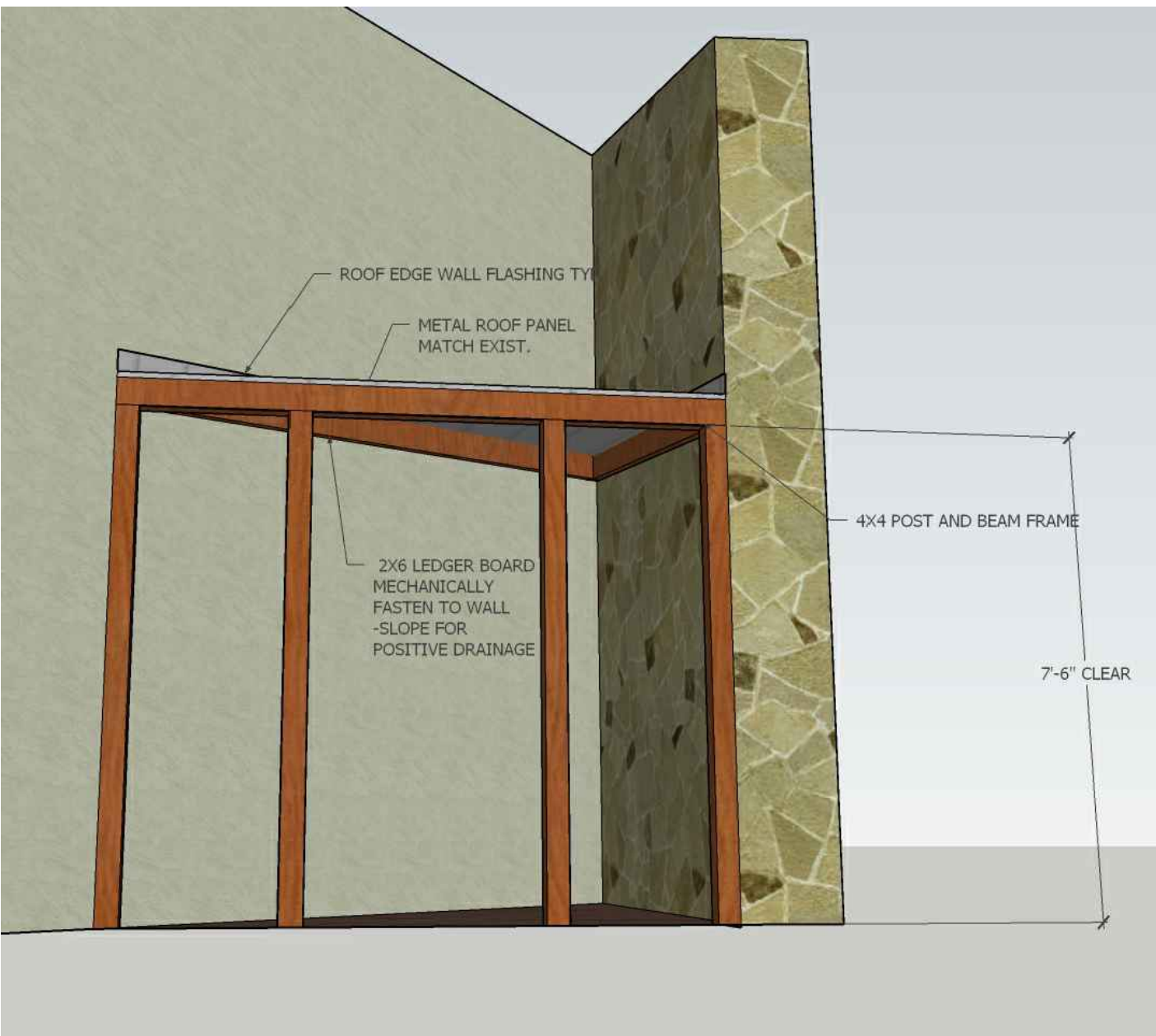
01 3D DETAILS - OUTDOOR STAGE FRAMING
NO SCALE



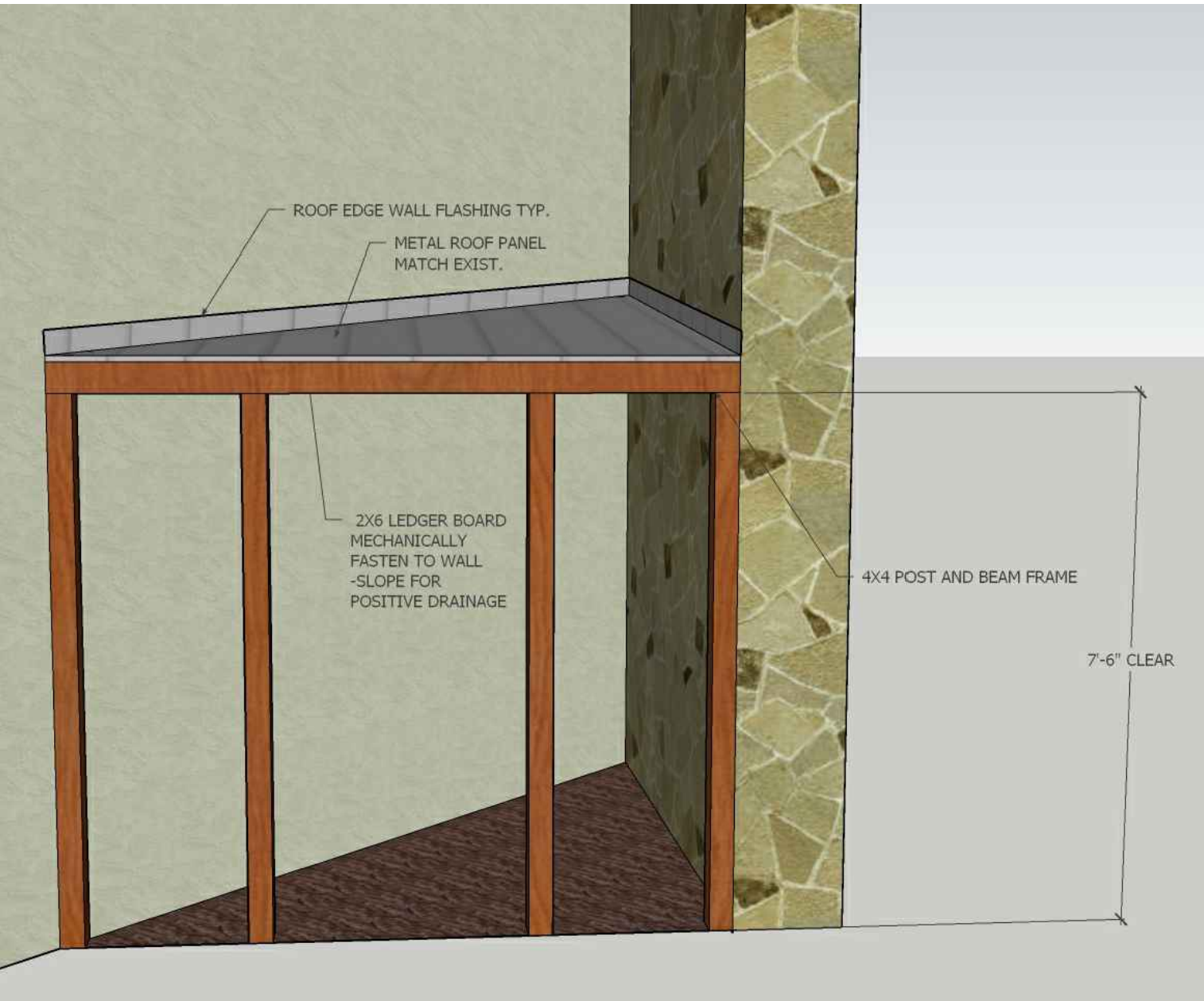
02 3D DETAILS - OUTDOOR STAGE FRAMING
NO SCALE



03 3D DETAILS - OUTDOOR STAGE
NO SCALE



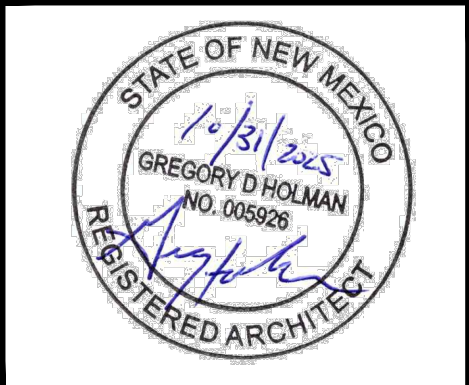
04 3D DETAILS - TOOL SHED FRAMING/ROOF
NO SCALE



05 3D DETAILS - TOOL SHED FRAMING/ROOF
NO SCALE



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CONSULTANTS:
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BSA
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Phone: 806.780.7475
Fax: 806.780.0129
www.bsaeengineering.com
TEXAS FIRM REGISTRATION NO. F-4415
STRUCTURAL ENGINEER

CIVIL ENGINEER
INTERIOR DESIGNER

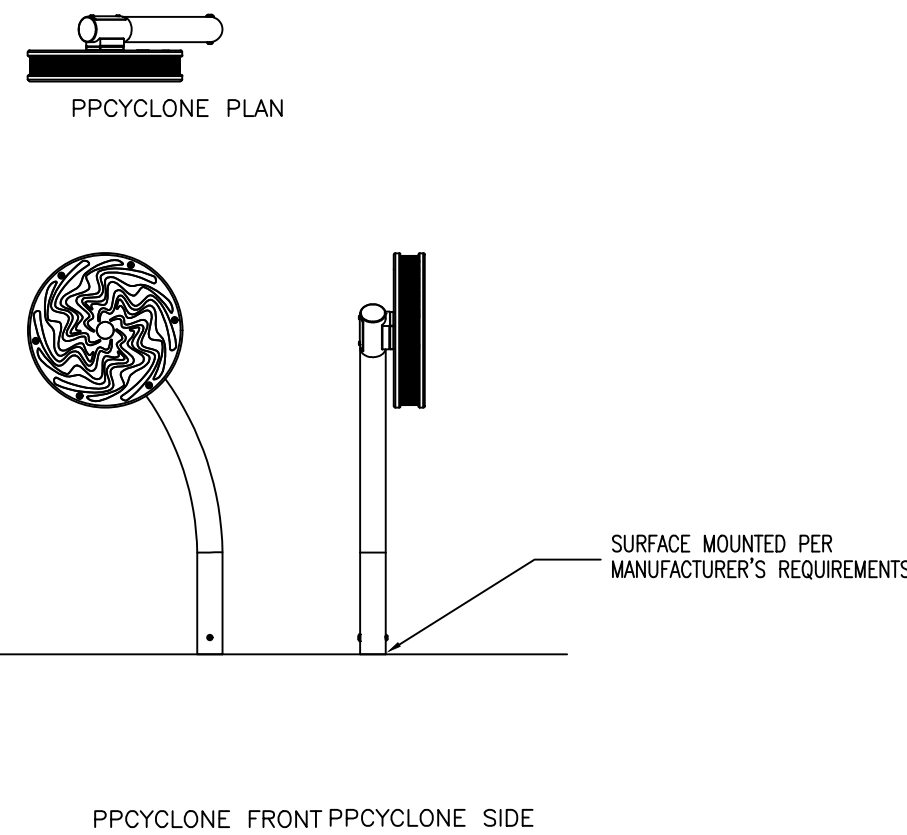
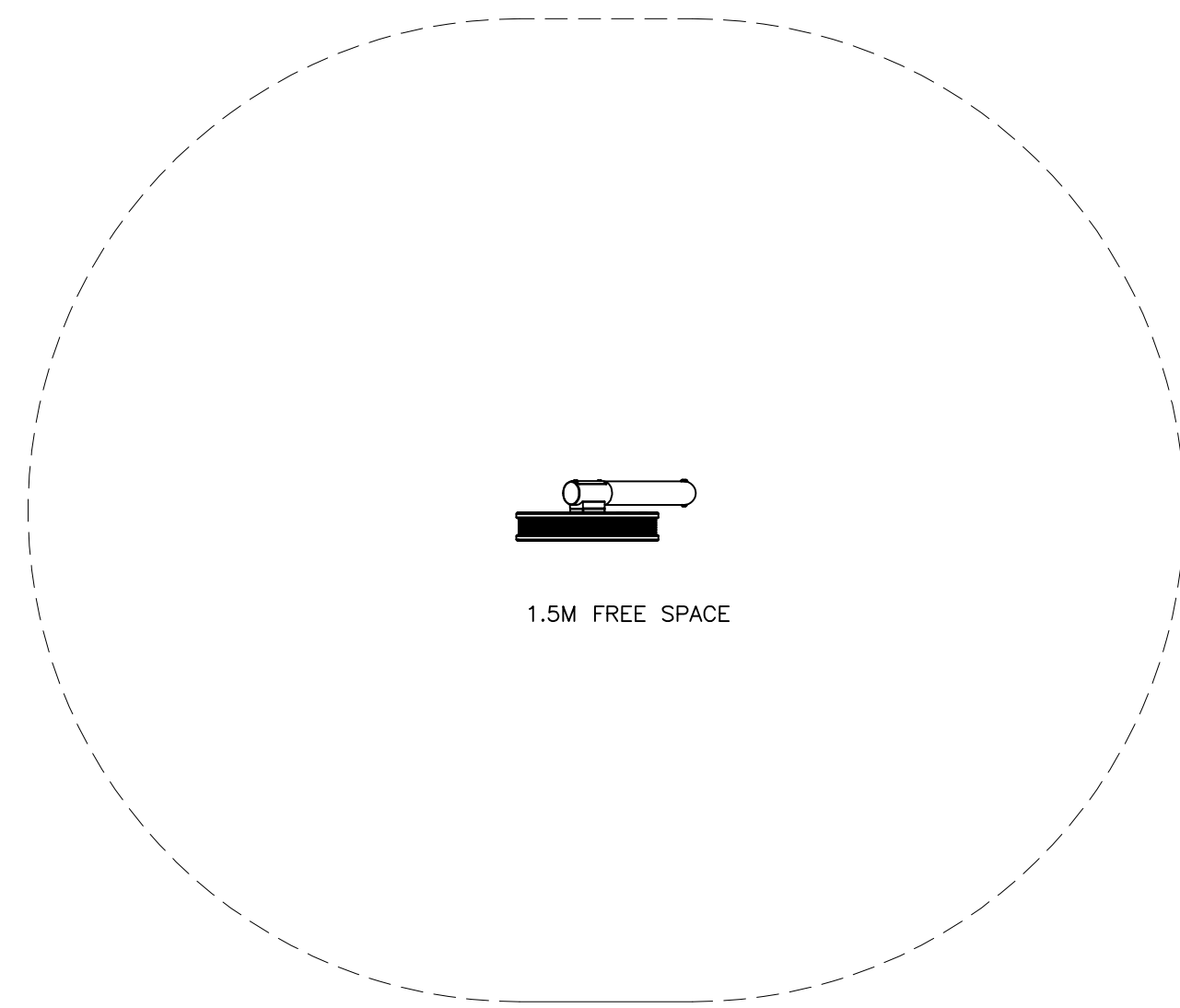
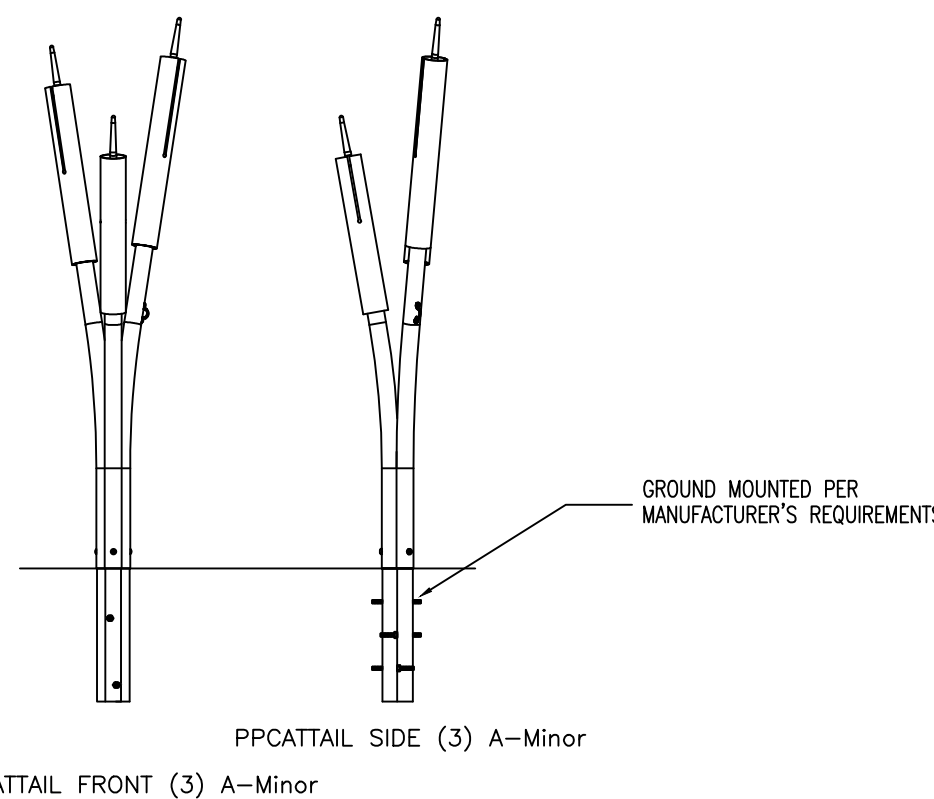
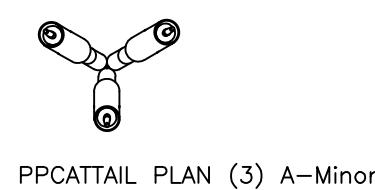
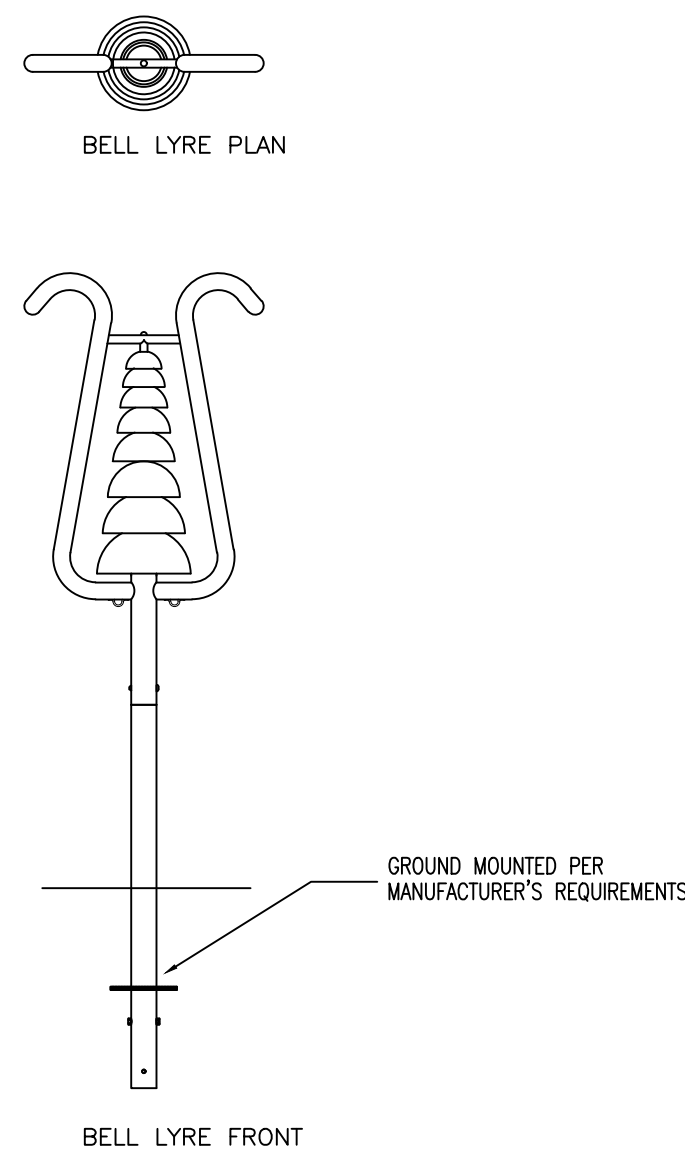
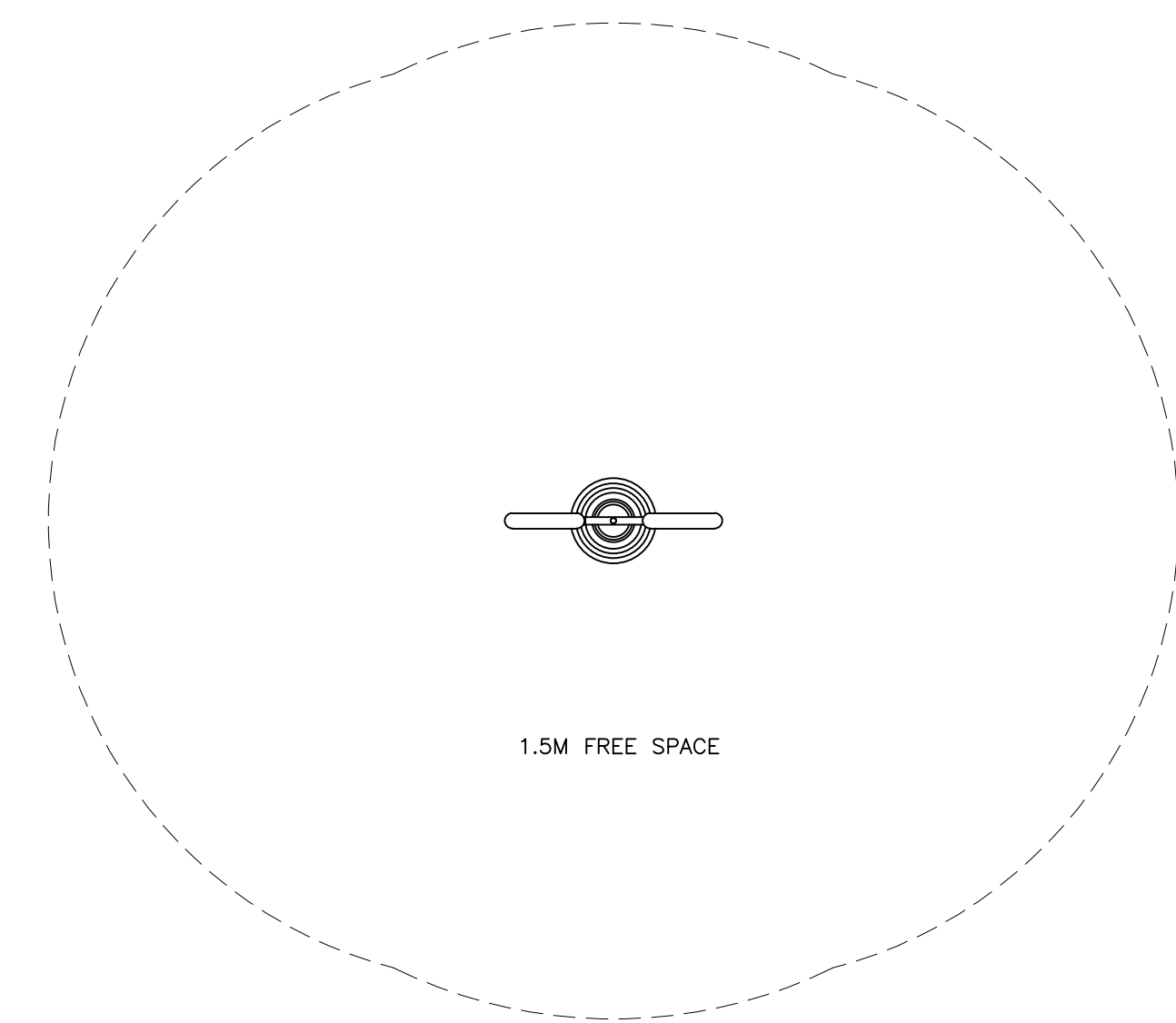
PROJECT NAME:
ROSWELL PUBLIC LIBRARY
CHILDREN'S GARDEN
301 N. PENNSYLVANIA AVE.
ROSWELL, NM 88201

NO.	DATE	DESCRIPTION
01	-	-

DATE: 10.31.2025

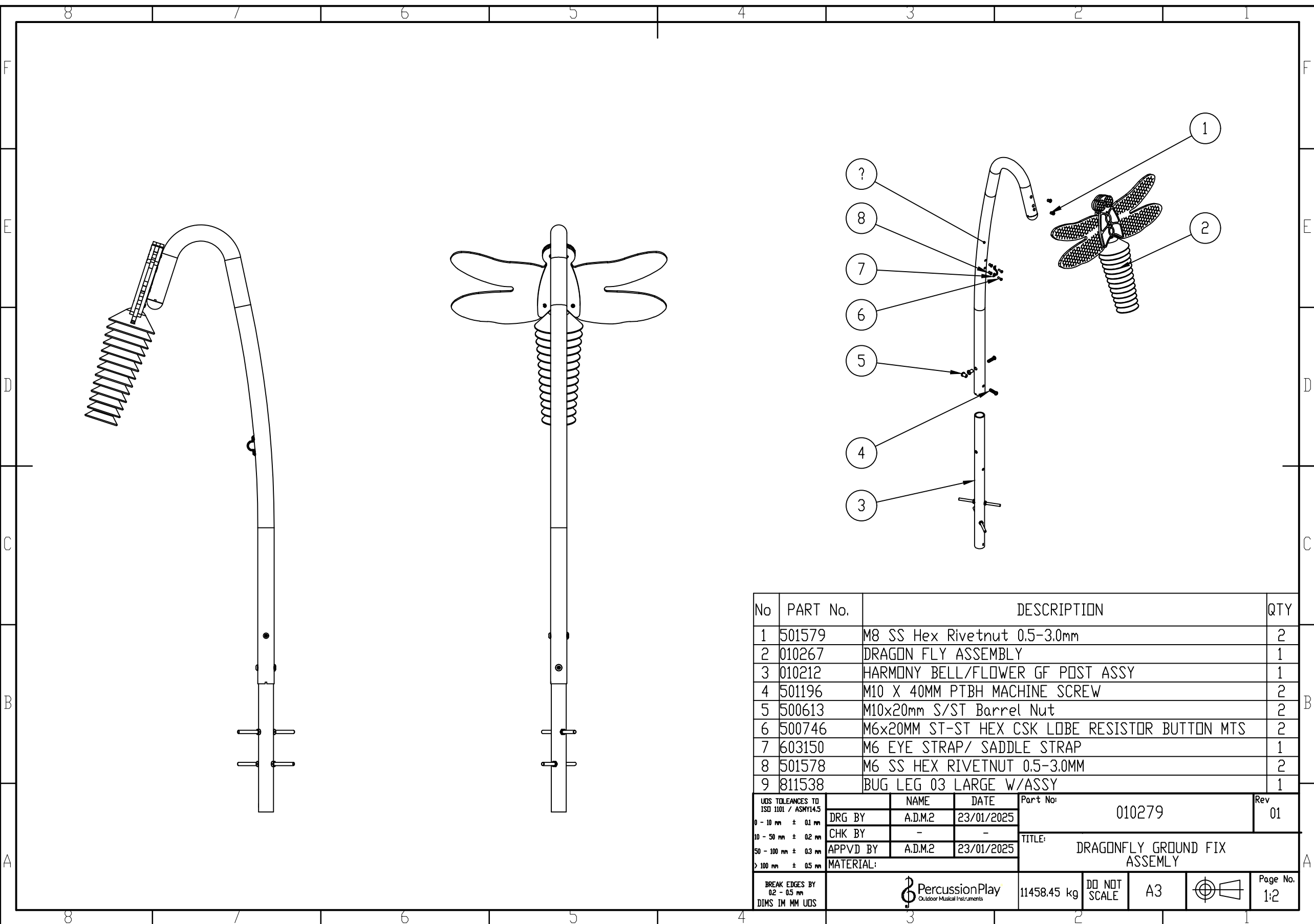
SHEET NAME:
ARCHITECTURAL
3D DETAILS

SHEET NUMBER:
A2.3



01 DETAIL - OUTDOOR INSTRUMENTS

NO SCALE



No	PART No.	DESCRIPTION	QTY
1	501579	M8 SS Hex Rivetnut 0.5-3.0mm	2
2	010267	DRAGON FLY ASSEMBLY	1
3	010212	HARMONY BELL/FLDWER GF POST ASSY	1
4	501196	M10 X 40MM PTBH MACHINE SCREW	2
5	500613	M10x20mm S/ST Barrel Nut	2
6	500746	M6x20MM ST-ST HEX CSK LOBE RESISTOR BUTTON MTS	2
7	603150	M6 EYE STRAP/ SADDLE STRAP	1
8	501578	M6 SS HEX RIVETNUT 0.5-3.0MM	2
9	011538	BUG LEG 03 LARGE W/ASSY	1

DESIGNED BY	NAME	DATE	Part No	Rev
DRG BY	ADM2	23/01/2025	010279	01
CHK BY				
APPVD BY	ADM2	23/01/2025		
MATERIAL				
BREAK LEGS BY				
ENDS IN MM UNITS				

DRAGONFLY GROUND FIX ASSEMBLY	11458.45 kg	101 NUT SCALE	A3	Page No. 1/2
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02 DETAIL - OUTDOOR INSTRUMENTS

NO SCALE

03 DETAIL - OUTDOOR INSTRUMENTS

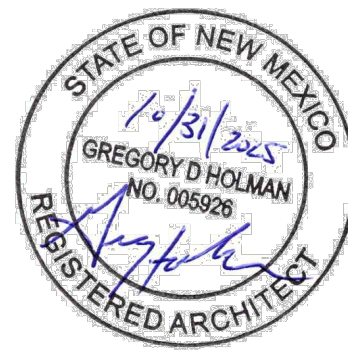
NO SCALE

04 DETAIL - OUTDOOR INSTRUMENTS

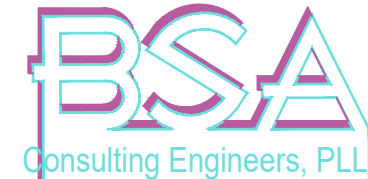
NO SCALE



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INTERIOR DESIGNER

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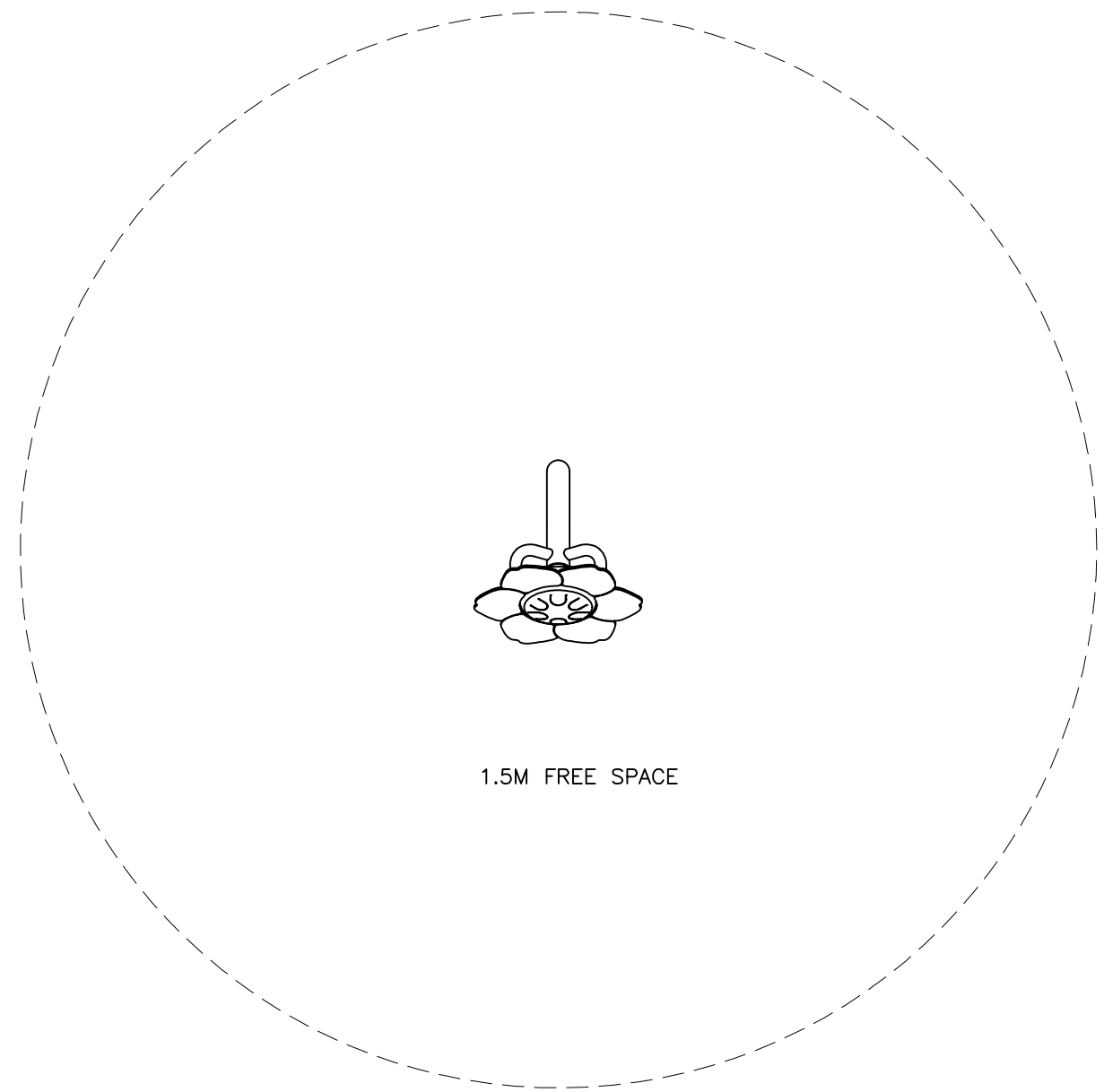
NO.	DATE	DESCRIPTION
01	-	-

DATE: 10.31.2025

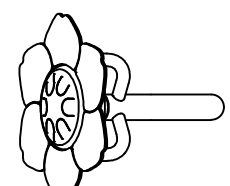
SHEET NAME:
ARCHITECTURAL
DETAILS

SHEET NUMBER:

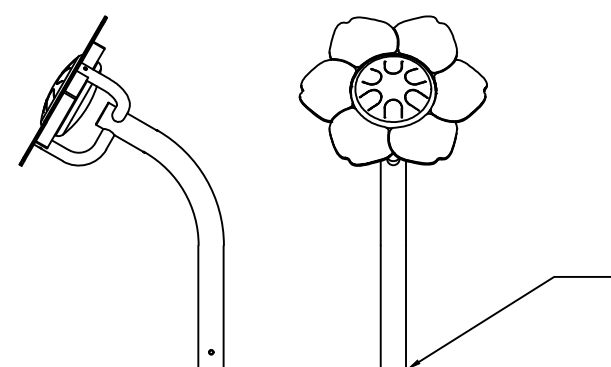
A3.1



1.5M FREE SPACE

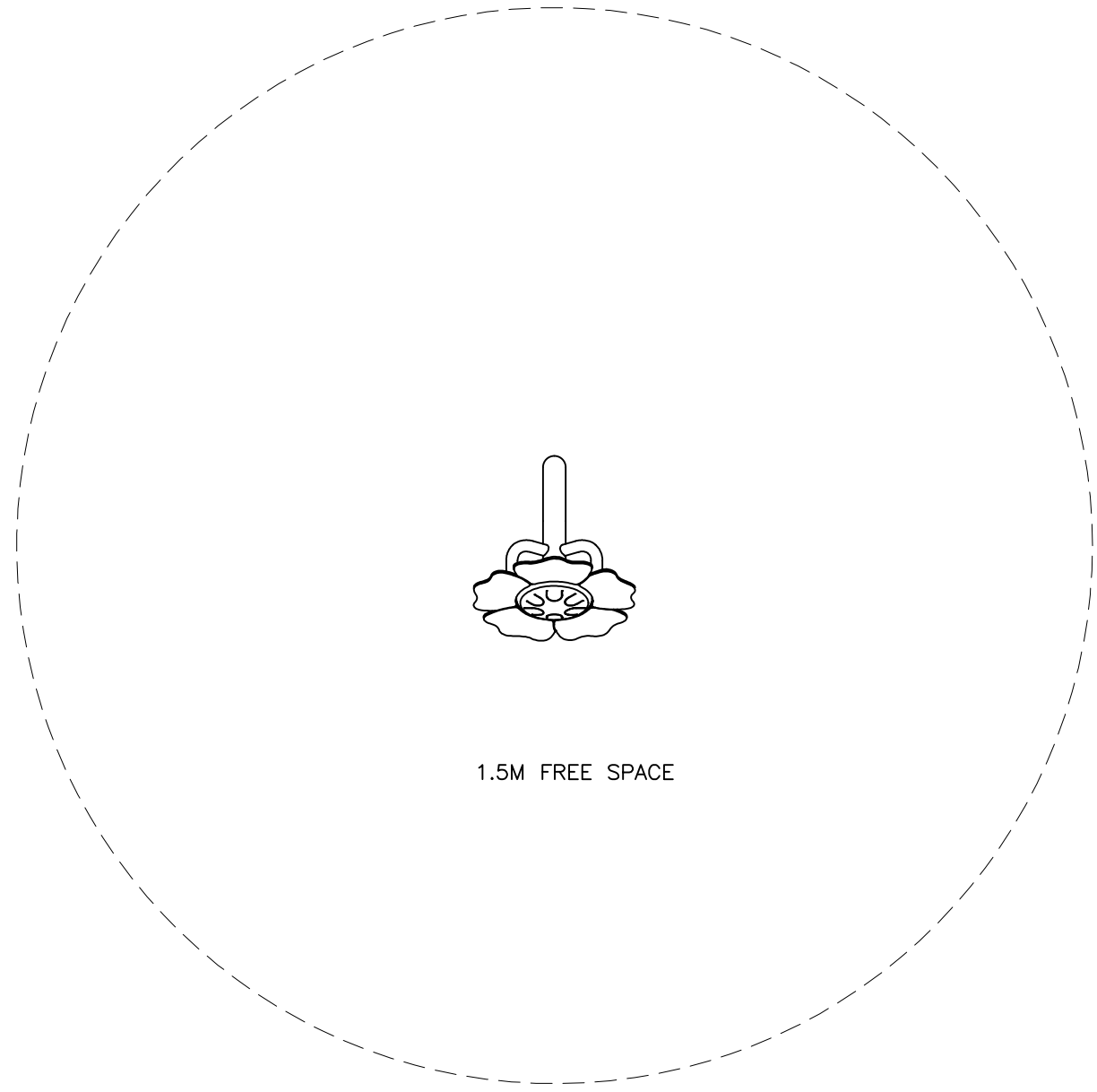


PETAL DRUM FMN PLAN

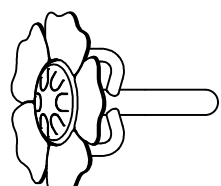


PETAL DRUM SIDE PETAL DRUM FRONT

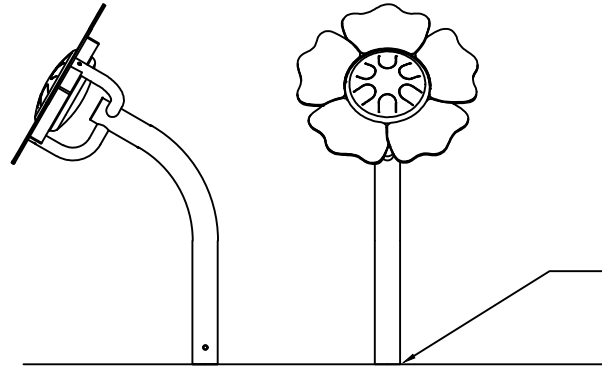
SURFACE MOUNTED PER MANUFACTURER'S REQUIREMENTS



1.5M FREE SPACE

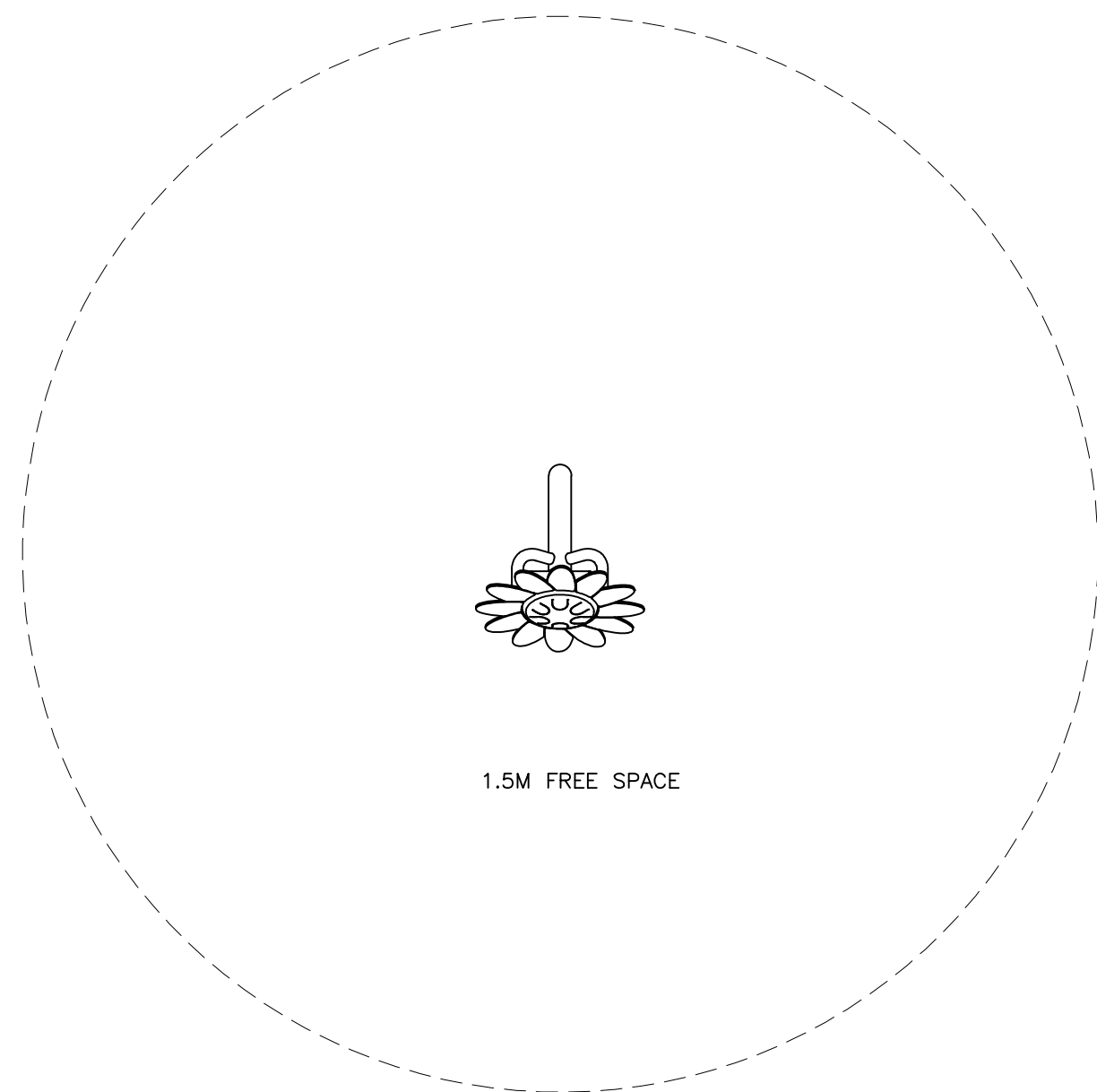


PETAL DRUM POPPY PLAN

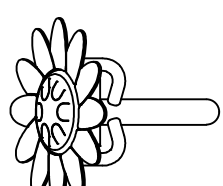


PETAL DRUM SIDE PETAL DRUM FRONT

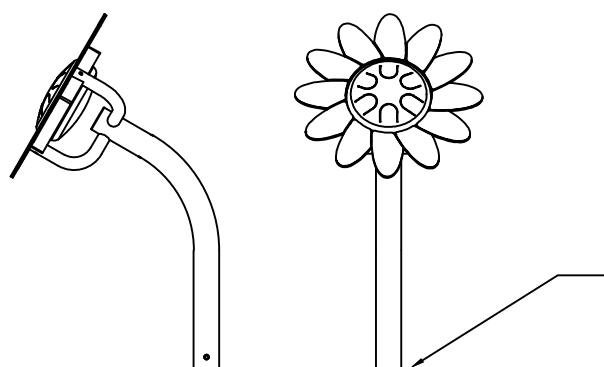
SURFACE MOUNTED PER MANUFACTURER'S REQUIREMENTS



1.5M FREE SPACE



PETAL DRUM D/SF PLAN



PETAL DRUM SIDE PETAL DRUM FRONT

SURFACE MOUNTED PER MANUFACTURER'S REQUIREMENTS

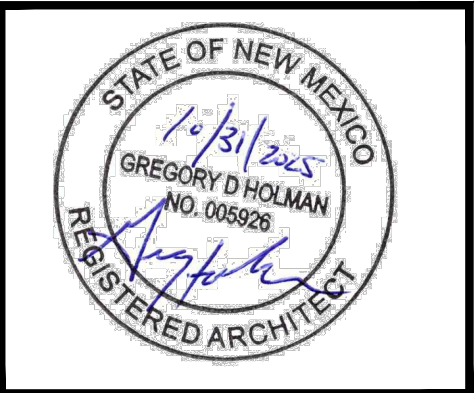
01 **DETAIL - OUTDOOR INSTRUMENTS**
NO SCALE

02 **DETAIL - OUTDOOR INSTRUMENTS**
NO SCALE

03 **DETAIL - OUTDOOR INSTRUMENTS**
NO SCALE



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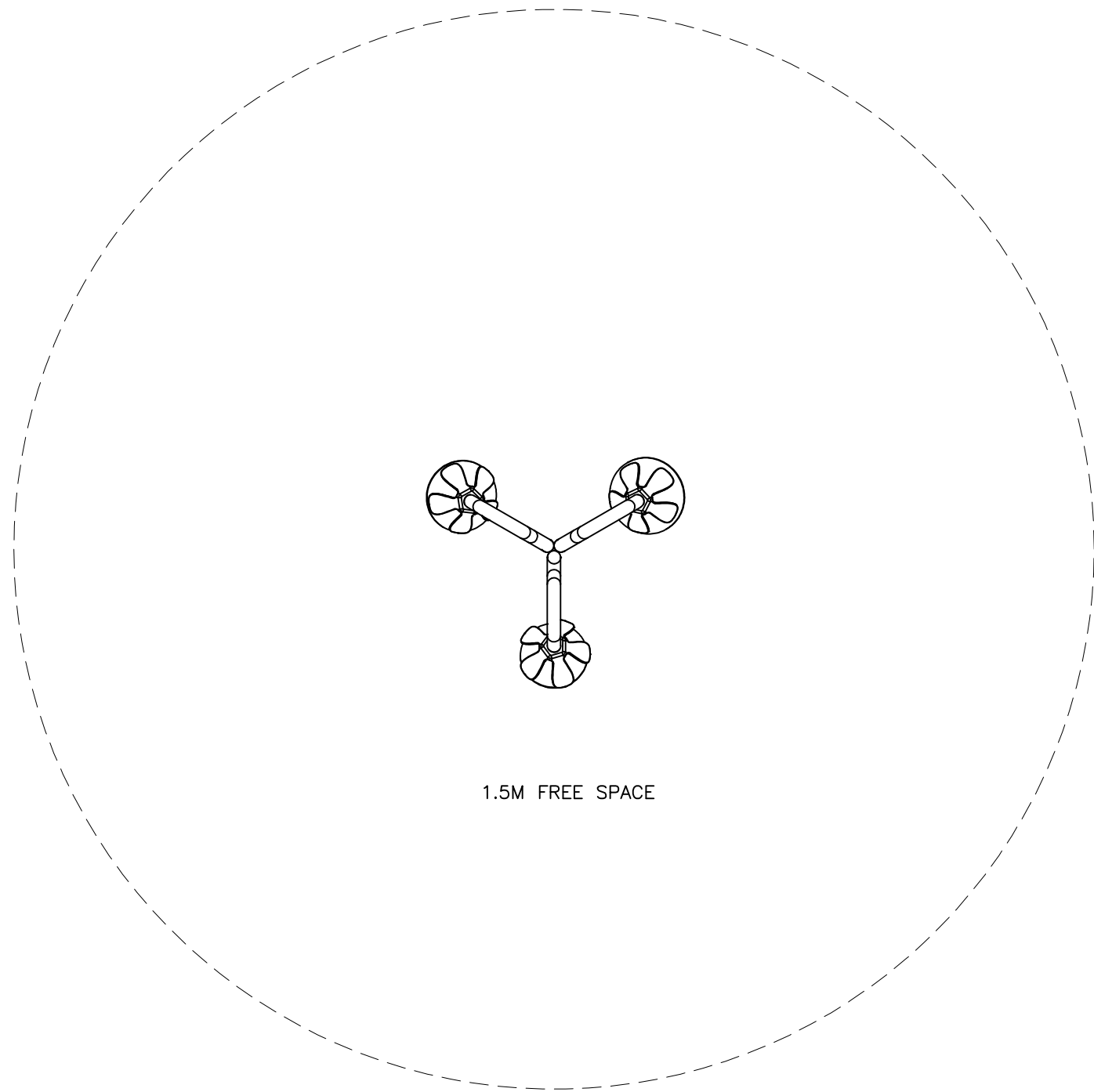
PROJECT NAME:
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NO.	DATE	DESCRIPTION
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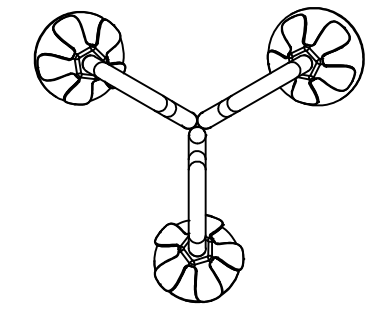
DATE: 10.31.2025

SHEET NAME:
ARCHITECTURAL
DETAILS

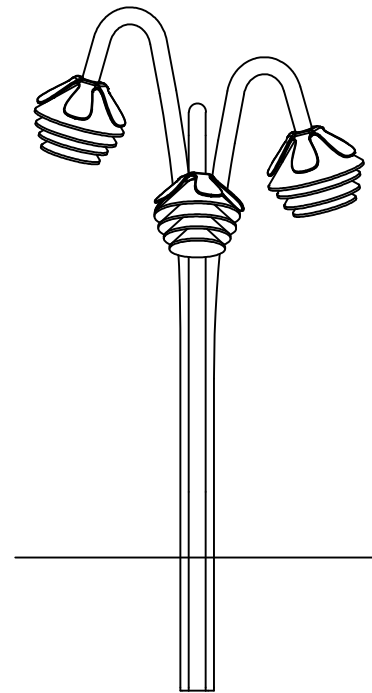
SHEET NUMBER:
A3.2



1.5M FREE SPACE



HARMONY BELLS PLAN



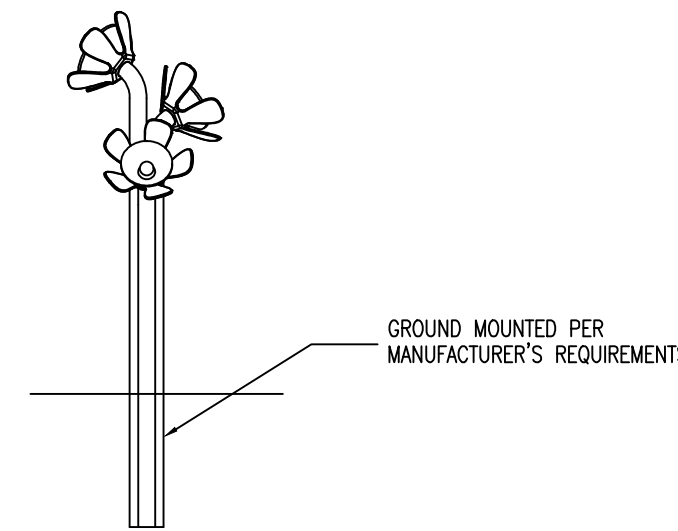
HARMONY BELLS FRONT



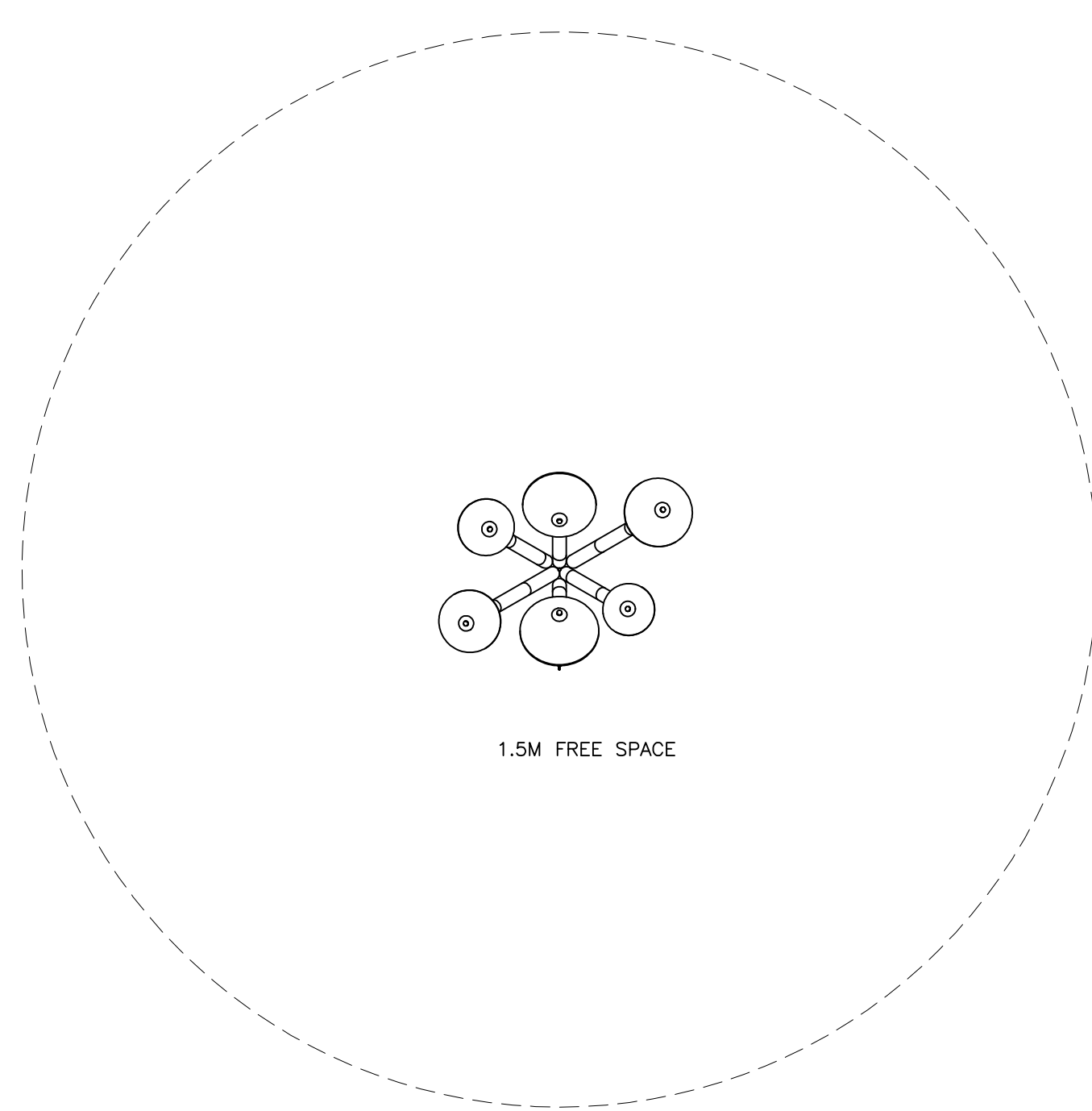
1.5M FREE SPACE



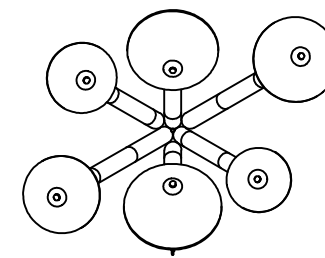
HARMONY FLOWERS PLAN



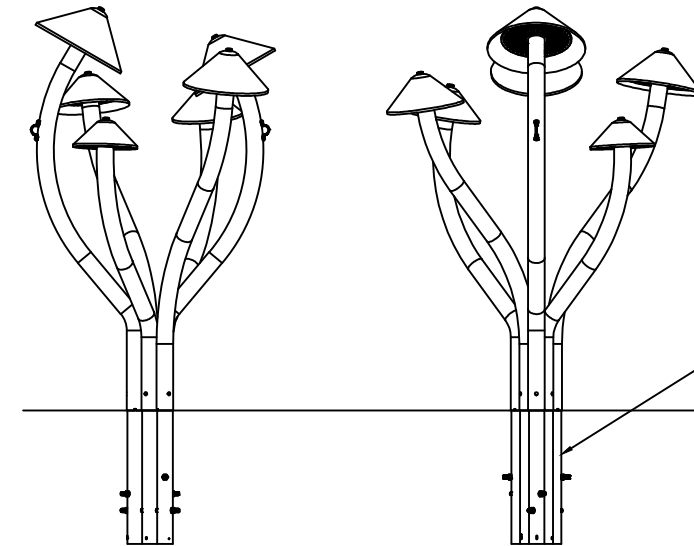
HARMONY FLOWERS FRONT



1.5M FREE SPACE



PPLIBERTYBELL PLAN



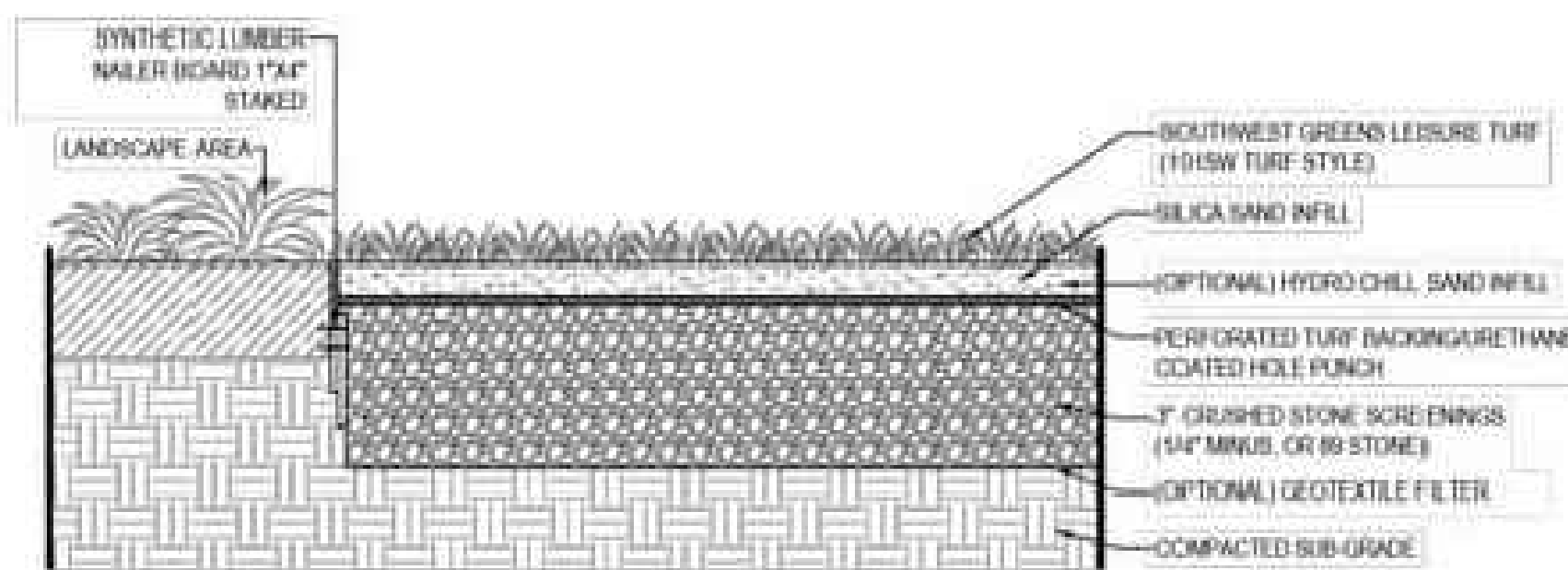
PPLIBERTYBELL FRONT

PPLIBERTYBELL SIDE

GROUND MOUNTED PER MANUFACTURER'S REQUIREMENTS

01 DETAIL - OUTDOOR INSTRUMENTS

NO SCALE



TYPICAL INSTALL CROSS SECTION

NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DRAWING NOT TO SCALE.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
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. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT <https://www.greenm.com/>

04 DETAIL - ARTIFICIAL TURF

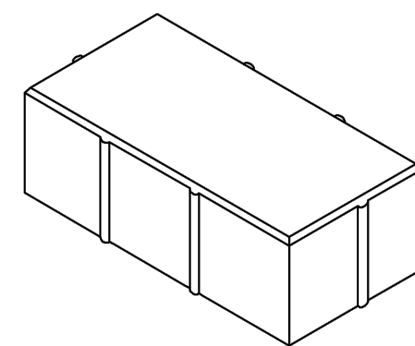
NO SCALE

02 DETAIL - OUTDOOR INSTRUMENTS

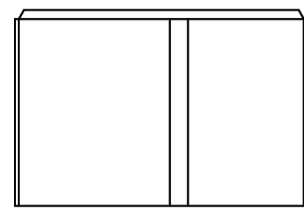
NO SCALE

☒ SELECT DESIRED SIZE:

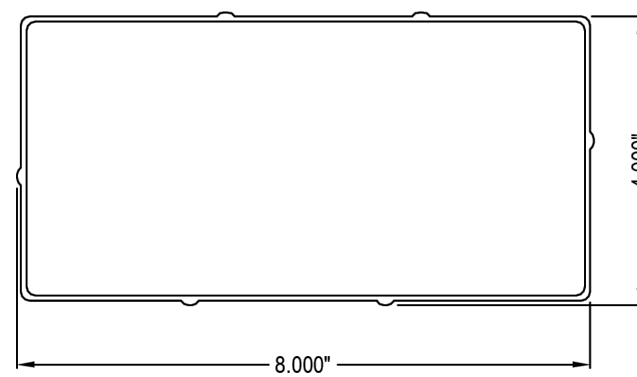
- ☐ 4 X 8 X 2 1/4
- ☒ 4 X 8 X 2 3/4
- ☐ 8 X 8 X 2 1/4
- ☒ 8 X 8 X 2 3/4



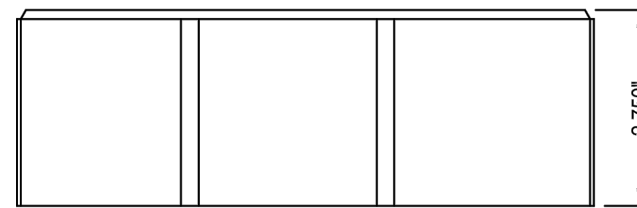
PERSPECTIVE



SIDE ELEVATION



PLAN VIEW



FRONT ELEVATION

NOTES:

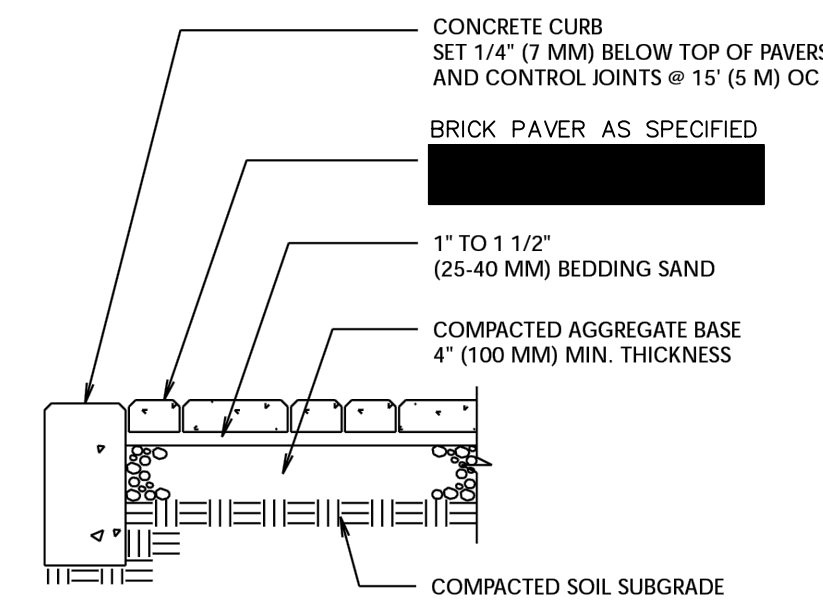
1. COMPLIES WITH ASTM C902 CLASS SX TYPE I APPLICATION PX AVAILABLE ON REQUEST. ASTM C1272 TYPE R AVAILABLE ON REQUEST.
2. AVAILABLE IN ALL STANDARD COLORS. STANDARD COLORS MAY BE MINGLED AT THE PLANT PER ARCHITECT'S SPECIFICATION.
3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
4. DO NOT SCALE DRAWING.
5. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
6. 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.
7. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT WWW.CADDDETAILS.COM/INFO AND ENTER REFERENCE NUMBER 256-115.

05 DETAIL - BRICK PAVERS

NO SCALE

03 DETAIL - OUTDOOR INSTRUMENTS

NO SCALE



NOTE:

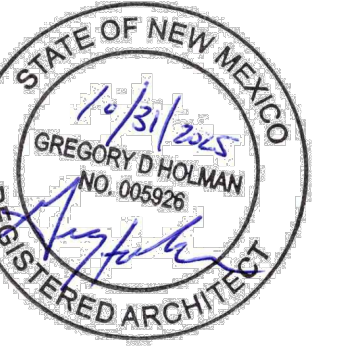
1. THICKNESS OF BASE WILL VARY WITH SUBGRADE CONDITIONS AND CLIMATE. COLDER CLIMATES MAY REQUIRE THICKER BASES.

05 DETAIL - BRICK PAVERS SETTING BED SECTION

NO SCALE



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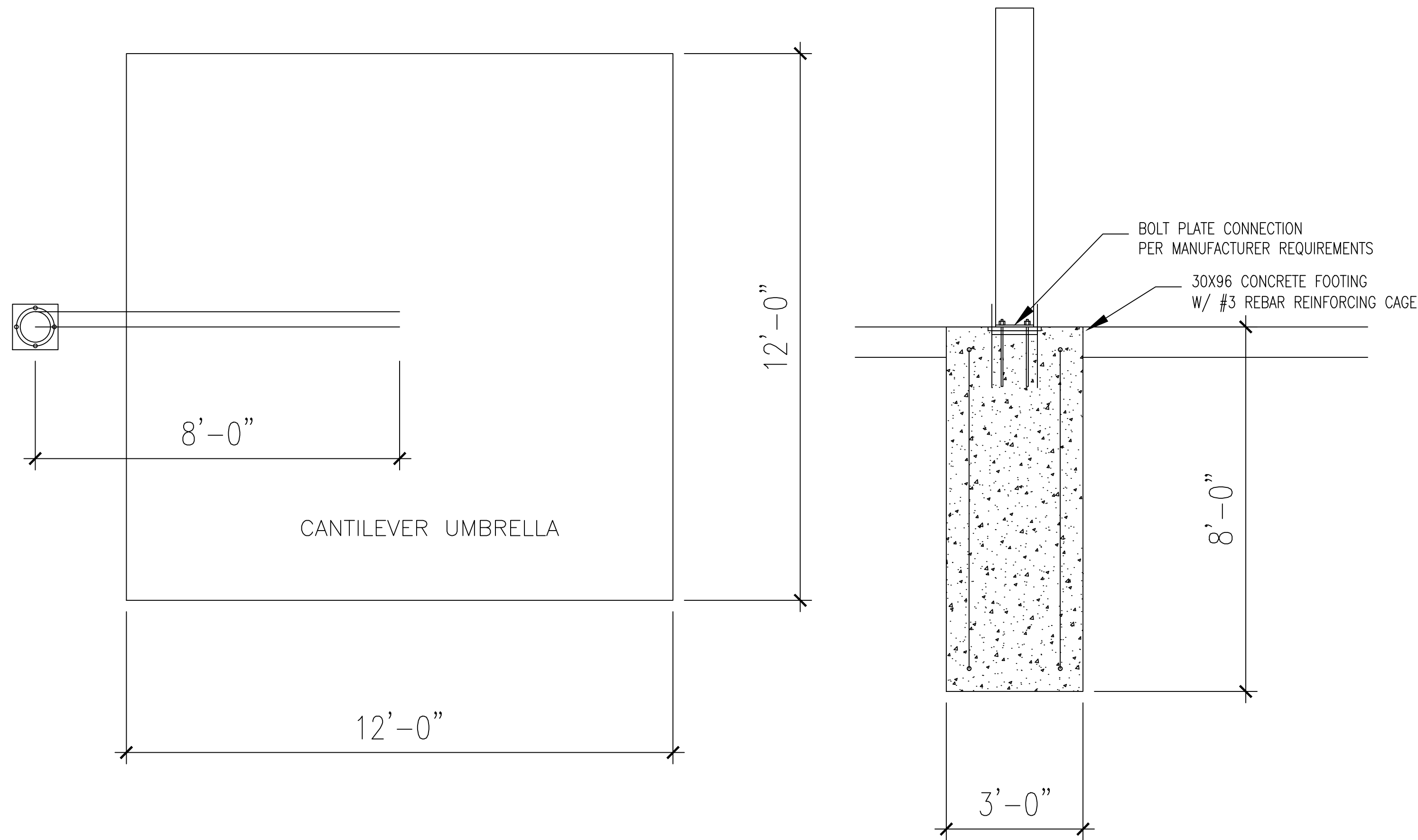
PROJECT NAME:
ROSWELL PUBLIC LIBRARY
CHILDREN'S GARDEN
301 N. PENNSYLVANIA AVE.
ROSWELL, NM 88201

NO.	DATE	DESCRIPTION
01	-	-

DATE: 10.31.2025

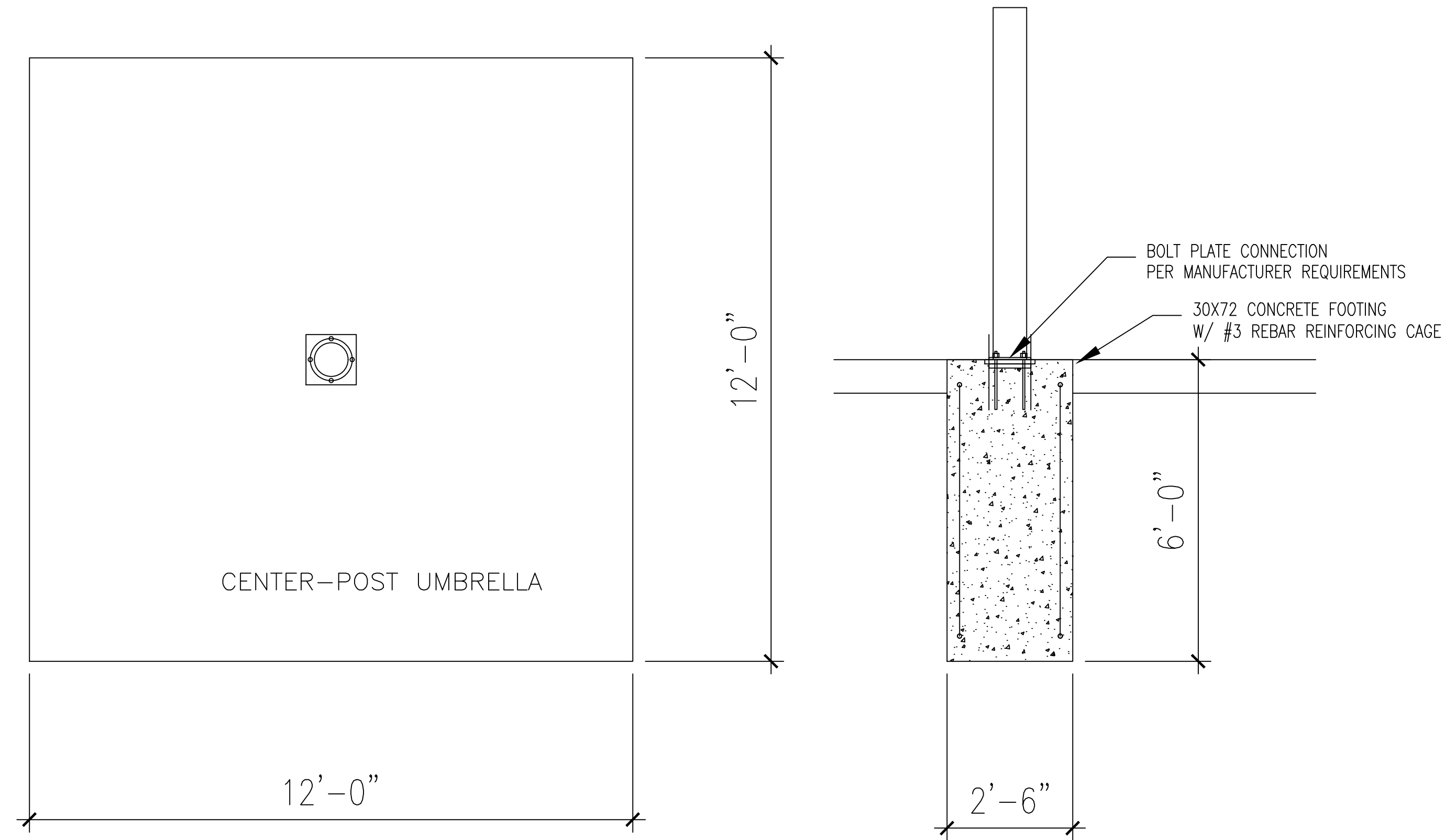
SHEET NAME:
ARCHITECTURAL
DETAILS

SHEET NUMBER:
A3.3



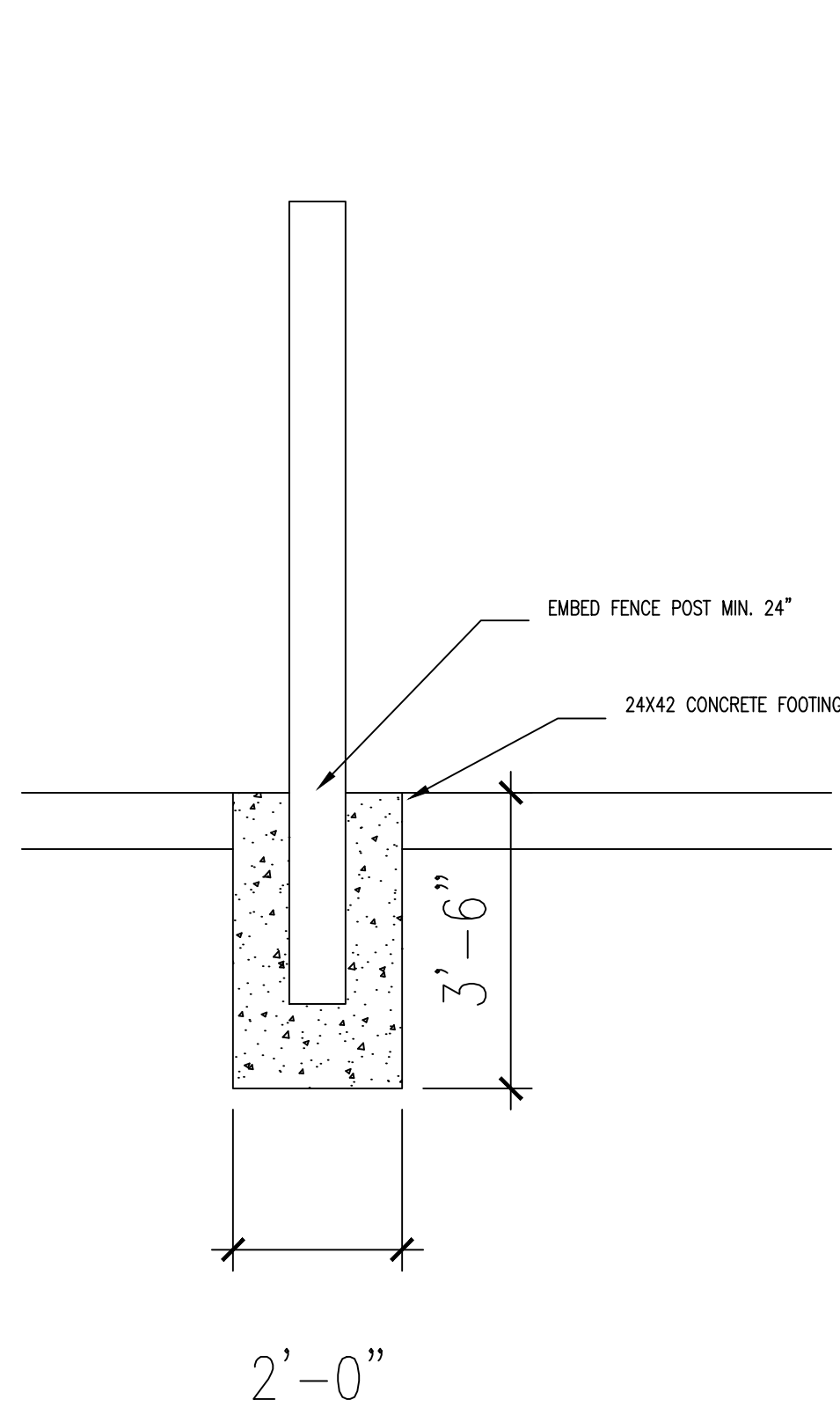
01 DETAIL - SHADE CANOPY

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



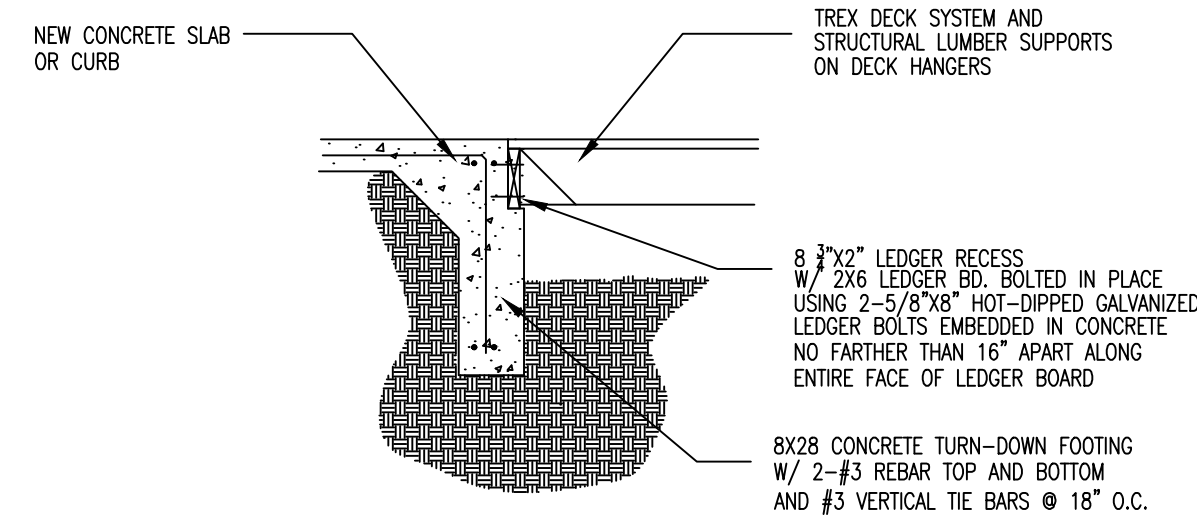
02 DETAIL - SHADE CANOPY

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



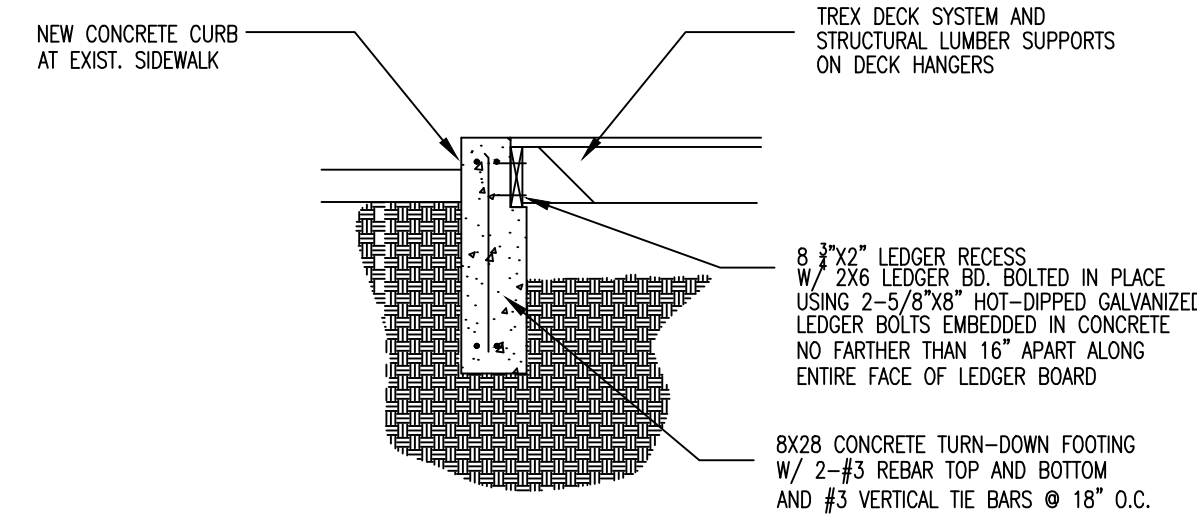
03 DETAIL - TYP. FENCE POST

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



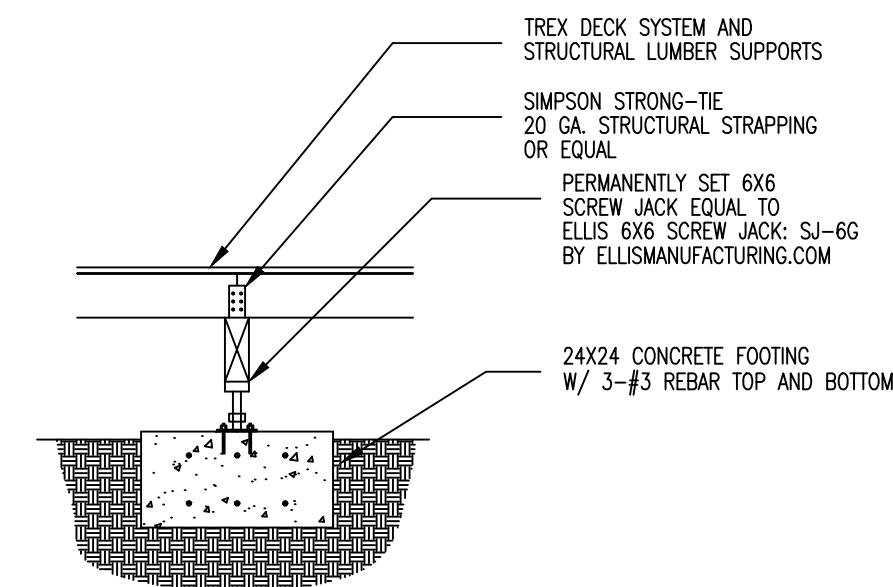
04 DETAIL - CONCRETE TURN-DOWN/DECK LEDGER

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



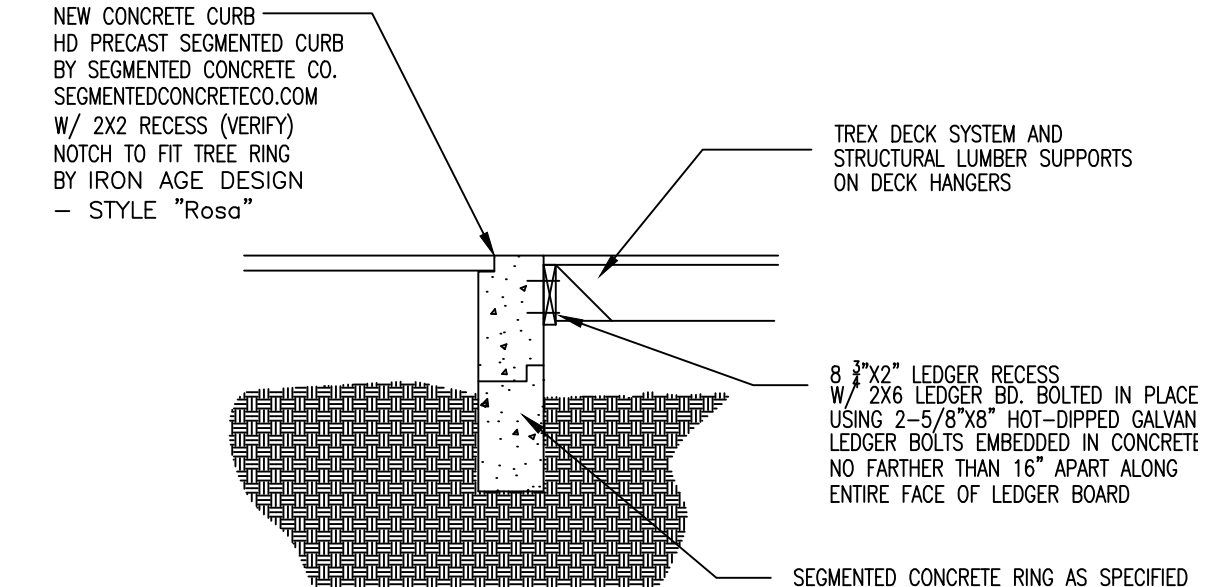
05 DETAIL - CONCRETE CURB/DECK LEDGER @ EXIST. SIDEWALK

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



06 DETAIL - DECK SUPPORT FOOTER

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

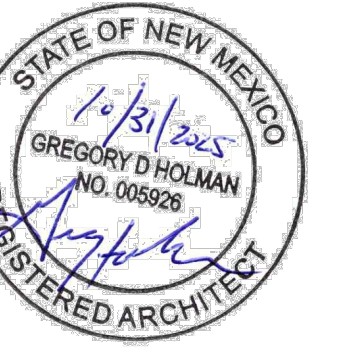


07 DETAIL - CONCRETE CURB AT TREE RING

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



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NO.	DATE	DESCRIPTION
01	-	-

DATE: 10.31.2025

SHEET NAME:
ARCHITECTURAL
DETAILS

SHEET NUMBER:
A3.4

PROJECT MANUAL AND SPECIFICATIONS

* THE TERMS GENERAL CONTRACTOR, G.C. AND CONTRACTOR SHALL BE INTERCHANGEABLE.

GENERAL CONDITIONS - SECTION 010000

- 1.1 CONTRACT RESPONSIBILITIES
- A. THE AIA DOCUMENT A201 GENERAL CONDITIONS, CURRENT EDITION, SHALL APPLY TO THE PROJECT. A COPY CAN BE MADE AVAILABLE UPON REQUEST.
- 1.2 FIELD CONDITIONS
- A. THE G.C. SHALL TAKE ALL REASONABLE STEPS TO PROTECT AND MAINTAIN THE HEALTH OF EXISTING TREES IN THE PROJECT SITE BY CONSIDERING OFF A PROTECTIVE ZONE TO PROTECT THE TREE AND DRIP CANOPY ZONE FROM DAMAGE AND EXCESSIVE SOIL COMPACTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF LOST TREE FOR A PERIOD OF TWO YEARS IF DUE TO DAMAGE BY G.C. ACTIVITY.
- B. THE G.C. SHALL VERIFY SIZE AND LOCATION OF ALL SITE IMPROVEMENTS, EQUIPMENT ETC. ACTIVITY AND COORDINATE WITH ARCHITECT, MECHANICAL AND ELECTRICAL ENGINEER.
- C. PRIOR TO EXCAVATION OR TRENCHING THE G.C. SHALL DETERMINE AND VERIFY LOCATION OF UTILITY SERVICES IN ALL AREAS TO BE EXCAVATED.
- D. THE G.C. SHALL COORDINATE ALL ELECTRICAL AND L.T. INSTALLATION WITH ELECTRICAL WORK AS REQUIRED.
- 1.3 FIELD REVISIONS
- A. ANY CHANGES IN PLAN ARRANGEMENT OR DETAILING AND SPECIFIC INSTRUCTIONS FOR THE PROJECT WITHOUT THE PRIOR WRITTEN NOTIFICATION AND APPROVAL, OR THE ARCHITECT WILL VOID ANY OBLIGATIONS AND WARRANTIES SET FORTH BY THE OWNER AND THE ARCHITECT.
- B. IF ANY SUBSTITUTIONS ARE PROPOSED AND APPROVED FOR SPECIFIC EQUIPMENT, THE G.C. AND HIS SUBCONTRACTORS SHALL BE RESPONSIBLE FOR ALL COORDINATION INCLUDING HVAC, PLUMBING AND ELECTRICAL.
- C. ALL MATERIAL SPECIFIED IS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS. THE G.C. IS TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE DOCUMENTS. ANY DEVIATIONS FROM THE DOCUMENTS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT'S WRITTEN APPROVAL IS AT THE CONTRACTOR'S OWN RISK AND MAY RESULT IN THE WORK BEING REJECTED AND REDONE AT THE CONTRACTOR'S EXPENSE.
- D. IN THE EVENT THAT THE QUALITY OR GRADE OF MATERIAL OR WORK IS NOT CLEARLY SPECIFIED, THE G.C. SHALL REQUEST CLARIFICATION FROM THE ARCHITECT. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR ASSUME GRADE OR QUALITY. FAILURE TO CLARIFY MATERIAL QUALITY PRIOR TO BID DOES NOT CONSTITUTE GROUNDS FOR ADDITIONAL PROJECT COSTS.
- E. IN THE EVENT A DISCREPANCY OCCURS FROM ONE DRAWING TO ANOTHER OR THE SPECIFICATIONS, THE HIGHER QUALITY SHALL PREVAIL.
- 1.4 PERMITTING / CODE COMPLIANCE
- A. THE G.C. SHALL APPLY FOR ALL PERMITS WHICH INVOLVE DRAWING SUBMITTAL AND PROCESSING (E.G. BUILDING, ELECTRICAL, MECHANICAL, PLUMBING, FIRE AND HEALTH PERMITS). THE G.C. SHALL OBTAIN THESE PERMITS PRIOR TO CONSTRUCTION AND SHALL PAY ALL PERMITTING FEES.
- B. THE G.C. SHALL ASSURE THAT ALL WORK IS DONE IN ACCORDANCE WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES, ORDINANCES, REQUIREMENTS, ETC. ARE SPECIFICALLY SHOWN ON THE DRAWINGS AND/OR SPECIFICATIONS.
- C. CONSTRUCTION MATERIAL, ASSEMBLIES AND PROCEDURES ARE TO COMPLY WITH ALL APPLICABLE CODES AND SUPPLEMENTARY ORDINANCES. WHEN A CONFLICT OCCURS BETWEEN SUCH CODES AND INFORMATION SHOWN ON THE DRAWINGS, THE G.C. SHALL CONSULT WITH THE OWNER'S REPRESENTATIVE OR ARCHITECT FOR RESOLUTION PRIOR TO COMMENCING WORK.
- D. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ACCESSIBILITY GUIDELINES (I.E. ADVANCED) FOR BUILDINGS AND FACILITIES FOR THE CURRENT FEDERL AND FEDERAL REGISTERS, INCLUDING MOUNTING HEIGHTS, CLEARANCES, ACCESSORIES, ETC.
- E. THE G.C. SHALL BE RESPONSIBLE FOR SCHEDULING INSPECTIONS BY CODE OFFICIALS AND SHALL PAY INSPECTION FEES ASSOCIATED WITH THE WORK.
- F. PRIOR TO ISSUANCE OF THE BUILDING PERMIT, THE G.C. SHALL HAVE EVIDENCE OF CURRENT WORKER'S COMPENSATION INSURANCE COVERAGE ON FILE WITH THE DEPARTMENT IN COMPLIANCE WITH THE LOCAL LABOR CODE.
- G. AFTER OBTAINING THE BUILDING PERMIT AND BEFORE COMMENCING WITH THE WORK, THE OWNER SHALL SHOW EVIDENCE OF ALL INSURABLE REQUIREMENTS AS REQUIRED BY THE OWNER.
- 1.5 NOT USED
- 1.6 MATERIAL HANDLING
- A. THE G.C. SHALL BE RESPONSIBLE FOR RECEIVING ALL TENANT SUPPLIED MATERIALS AND SUPPLYING THE MANPOWER AS REQUIRED TO OFF LOAD SHIPMENTS. WITHIN FIVE WORKING DAYS AFTER AWARD OF CONTRACT, THE G.C. SHALL PROVIDE THE TENANT WITH A PROPOSED PROJECT SCHEDULE INDICATING REQUESTED DATES OF DELIVERY OF TENANT FURNISHED MATERIALS.
- B. THE G.C. SHALL CONFIRM THE RECEIPT OF ALL MATERIALS AND VERIFY QUANTITIES WITH THE SHIPPING MANIFEST OR BILL OF LADING. THE G.C. SHALL NOTIFY THE TENANT WITHIN 24 HOURS AFTER RECEIPT OF ANY MATERIALS MISSING FROM SHIPMENTS OR MATERIALS DAMAGED DURING SHIPPING. FAILURE TO DO SO WILL RESULT IN THE G.C. ASSUMING RESPONSIBILITY FOR OVERNIGHT FREIGHT (IF REQUIRED) FOR JOB COMPLETION.
- C. THE G.C. IS RESPONSIBLE FOR FILING FREIGHT LOSS CLAIMS DIRECTLY WITH THE CARRIER AND FOLLOWING THROUGH ALL REQUIRED PROCEDURES, INCLUDING INSPECTIONS AND REMOVAL OF DAMAGED MATERIALS. THIS APPLIES TO VISIBLE AND CONCEALED DAMAGES OF ALL TENANT SUPPLIED MATERIALS. FAILURE TO DO SO WILL RESULT IN BACK CHARGE EXPENSES TO GENERAL CONTRACTOR.
- D. THE G.C. SHALL BE RESPONSIBLE FOR PROTECTING ALL OWNER SUPPLIED MATERIALS THROUGHOUT THE WORK AND IS TO MAKE TOUCH UP REPAIRS AS REQUIRED.
- 2.1 GENERAL CONSTRUCTION
- A. WITHIN FIVE DAYS OF THE AWARD OF THE CONTRACT, THE GENERAL CONTRACTOR SHALL PROVIDE THE TENANT WITH A PROPOSED PROJECT SCHEDULE (GANTT GRAPH FORMAT) INDICATING THE START AND COMPLETION DATES OF EACH STAGE OF THE WORK BY TRADE. AT THE SAME TIME THE CONTRACTOR SHALL ALSO PROVIDE THE ARCHITECT WITH DOCUMENTATION INDICATING ORDERING AND DELIVERY DATES OF ALL MAJOR EQUIPMENT, MATERIALS AND FINISHES.
- B. THE G.C. IS TO HAVE THE SAME FULL TIME QUALIFIED SUPERVISOR ON THE SITE THROUGHOUT THE ENTIRE PROJECT SCHEDULE.
- C. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OF DAMAGE TO THE WORK OF OTHER TRADES CAUSED BY HIS OPERATIONS. THE NATURE OF SUCH REPAIR WORK MUST RECEIVE THE PRIOR APPROVAL OF THE OWNER'S REPRESENTATIVE.
- 2.2 PROJECT CLEAN UP / RULES OF CONDUCT / COMPLETION
- A. THE G.C. SHALL BE RESPONSIBLE FOR OVERALL CONSTRUCTION SITE CLEANUP, INCLUDING PROVISIONS OF A DUMPSTER WITH WEEKLY SERVICING, REMOVAL OF WRAPPIERS AND EXCESS MATERIALS AND LEFT IN BROOM SWEPT CONDITION.
- B. ALL MIRROR AND GLASS TO BE CLEANED OF PROTECTIVE PADS, MASTICS AND MARKINGS.
- C. ALL ELECTRICAL PANELS AND BREAKERS TO BE PROPERLY MARKED.
- D. THE G.C. SHALL SET ALL TIMERS FOR PROPER TIMES OF OPERATION AS REQUIRED BY THE OWNER AND LANDLORD.
- F. THE G.C. SHALL MOUNT A PERMANENTLY FRAMED CERTIFICATE OF OCCUPANCY. LOCATION TO BE DETERMINED BY THE OWNER AND BUILDING OFFICIALS.
- G. SMOKING, LOUD CRUDE LANGUAGE AND LOUD DISRUPTIVE MUSIC IS NOT PERMITTED ON JOB SITE.
- SUMMARY OF WORK - SECTION 011000**
- PART 1 - GENERAL
- 1.1 PROJECT/WORK IDENTIFICATION
- A. THE PROJECT CONSISTS OF EXISTING EXTERIOR LANDSCAPE AREA TO BE CONVERTED TO OUTDOOR CHILDREN'S PLAY AND LEARN AREA. ENTIRE AREA TO BE FENCED AND PROVIDED WITH EMERGENCY EXTING. SITE LIGHTING AND SECURITY CAMERAS.
- 1.2 TENANT OCCUPANCY
- A. PARTIAL TENANT OCCUPANCY: TENANT (LIBRARY ADMIN) RESERVES THE RIGHT TO PLACE AND INSTALL EQUIPMENT IN COMPLETED AREAS OF THE WORK AND TO OCCUPY SUCH COMPLETED AREAS PRIOR TO SUBSTANTIAL COMPLETION, PROVIDED THAT SUCH OCCUPANCY DOES NOT SUBSTANTIALLY INTERFERE WITH COMPLETION OF THE WORK. SUCH PLACING OF EQUIPMENT AND PARTIAL OCCUPANCY SHALL NOT CONSTITUTE ACCEPTANCE OF THE WORK OR ANY PART OF THE WORK.
- B. G.C. SHALL OBTAIN A CERTIFICATE OF OCCUPANCY FROM LOCAL BUILDING OFFICIALS PRIOR TO TENANT OCCUPANCY.
- C. PRIOR TO PARTIAL TENANT OCCUPANCY, MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE SUCCESSFULLY COMPLETED. REQUIRED INSPECTIONS AND TESTS SHALL HAVE BEEN COMPLETED PRIOR TO PARTIAL TENANT OCCUPANCY. PROVIDE OPERATION AND MAINTENANCE OF MECHANICAL AND ELECTRICAL SYSTEMS IN OCCUPIED PORTIONS OF THE WORK.
- 1.3 PRE-ORDERED PRODUCTS
- A. GENERAL: TENANT MAY NEGOTIATE PURCHASE ORDERS WITH NATIONAL ACCOUNT VENDORS OF MATERIAL AND EQUIPMENT TO BE INCORPORATED INTO THE WORK. THESE PURCHASE ORDERS ARE ASSIGNED TO THE CONTRACTOR AND COSTS FOR RECEIVING, HANDLING, STORAGE, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
- B. THE CONTRACTOR'S RESPONSIBILITIES ARE THE SAME AS IF THE CONTRACTOR NEGOTIATED PURCHASE ORDERS. INCLUDING RESPONSIBILITY TO RENEGOTIATE PURCHASE IF NECESSARY AND TO EXECUTE FINAL PURCHASE ORDER AGREEMENTS.
- C. TENANT RESERVES THE RIGHT TO ORDER AND PURCHASE ANY ITEMS IDENTIFIED IN THE CONSTRUCTION DOCUMENTS TO BE PROVIDED TO G.C. FOR INSTALLATION.
- 1.4 TENANT-FURNISHED ITEMS
- A. NOT USED
- B. TENANT WILL ARRANGE AND PAY FOR DELIVERY OF TENANT-FURNISHED ITEMS IN ACCORDANCE WITH THE CONTRACTOR'S CONSTRUCTION SCHEDULE, AND WILL INSPECT DELIVERIES FOR DAMAGE.
- C. IF TENANT-FURNISHED ITEMS ARE DAMAGED DURING DELIVERY, DEFECTIVE OR MISSING, THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S, FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE TENANT.
- D. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF TENANT-FURNISHED ITEMS. THE CONTRACTOR'S CONSTRUCTION SCHEDULE SHALL BE USED FOR RECEIVING, UNLOADING AND HANDLING TENANT-FURNISHED ITEMS AT THE SITE. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING TENANT-FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND SHALL REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

PROJECT MEETINGS - SECTION 012000

- PART 1 - GENERAL
- 1.1 QUALITY ASSURANCE
- A. PERSONS DESIGNATED BY CONTRACTORS, SUBCONTRACTORS AND MATERIAL SUPPLIERS TO ATTEND AND PARTICIPATE IN THE PROJECT PROGRESS MEETINGS SHALL HAVE ALL REQUIRED AUTHORITY TO COMMIT THE FIRM THEY REPRESENT TO SOLUTIONS AS MAY BE AGREED UPON AT THOSE MEETINGS.
- B. ALL MEETINGS WILL BE HELD AT THE JOB SITE.
- C. THE GENERAL CONTRACTOR WILL RECORD ALL SIGNIFICANT DISCUSSIONS AND AGREEMENTS/DISAGREEMENTS OF EACH CONFERENCE OR MEETING, ALONG WITH DATA RELATING TO CONSTRUCTION SCHEDULE CHANGES, AND WILL PROMPTLY DISTRIBUTE (WITHIN THREE DAYS) THE RECORD OF THE MEETING TO EACH FIRM/COMPANY CONCERNED.
- 1.2 PRE CONSTRUCTION CONFERENCE
- A. SCHEDULE A PRE CONSTRUCTION CONFERENCE AND ORGANIZATIONAL MEETING BEFORE STARTING CONSTRUCTION. AT A TIME CONVENIENT TO THE TENANT, BUT NO LATER THAN 10 DAYS AFTER EXECUTION OF THE AGREEMENT, HOLD THE CONFERENCE AT THE PROJECT SITE OR ANOTHER CONVENIENT LOCATION. CONDUCT THE MEETING TO REVIEW RESPONSIBILITIES AND PERSONNEL ASSIGNMENTS. ALL CONTRACTORS INVOLVED IN THE PROJECT MUST ATTEND UNLESS SPECIFICALLY EXCUSED BY THE OWNER'S REPRESENTATIVE.
- B. AGENDA: DISCUSS ITEMS OF SIGNIFICANCE THAT COULD AFFECT PROGRESS.
- 1.3 PROGRESS MEETINGS
- A. CONDUCT PROGRESS MEETINGS AT THE PROJECT SITE AT REGULAR WEEKLY INTERVALS WHEN WARRANTED BY PROJECT ACTIVITIES. NOTIFY THE OWNER AND THE ARCHITECT OF SCHEDULED MEETING DATES.
- B. ATTENDEES: IN ADDITION TO REPRESENTATIVES OF THE OWNER AND THE ARCHITECT, EACH SUBCONTRACTOR, SUPPLIER, OR OTHER ENTITY CONCERNED WITH CURRENT PROGRESS OR INVOLVED IN PLANNING, COORDINATION, OR PERFORMANCE OF FUTURE ACTIVITIES SHALL BE REPRESENTED AT THESE MEETINGS. ALL PARTICIPANTS AT THE CONFERENCE SHALL BE FAMILIAR WITH THE PROJECT AND AUTHORIZED TO CONCLUDE MATTERS RELATING TO THE WORK. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE PROPER ATTENDANCE OF THE REQUIRED PARTIES. ATTENDANCE MAY BE BY VIRTUAL MEANS.
- C. AGENDA: REVIEW AND CORRECT OR APPROVE MINUTES OF THE PREVIOUS PROGRESS MEETING. REVIEW OTHER ITEMS OF SIGNIFICANCE THAT COULD AFFECT PROGRESS. INCLUDE TOPICS FOR DISCUSSION AS APPROPRIATE TO THE STATUS OF THE PROJECT. TO THE MAXIMUM EXTENT POSSIBLE, THE GENERAL CONTRACTOR SHALL ADVISE THE OWNER AT LEAST 24 HOURS IN ADVANCE OF SCHEDULED PROJECT PROGRESS MEETINGS REGARDING ALL ITEMS TO BE ADDED TO THE AGENDA.
- 1.4 CONTRACTOR'S CONSTRUCTION SCHEDULE: REVIEW PROGRESS SINCE THE LAST MEETING, DETERMINE WHERE EACH ACTIVITY IS IN RELATION TO THE CONTRACTOR'S CONSTRUCTION SCHEDULE, WHETHER ON TIME OR AHEAD OF BEHIND SCHEDULE. DETERMINE HOW CONSTRUCTION PROGRESS ON THE PROJECT IS BEING AFFECTED. ADVISE THE OWNER OF PARTIES INVOLVED TO DO SO. DISCUSS WHETHER SCHEDULE REVISIONS ARE REQUIRED TO ACCOMMODATE CURRENT AND SUBSEQUENT ACTIVITIES WILL BE COMPLETED WITHIN THE CONTRACT TIME.

SUBMITTALS - SECTION 013000

- PART 1 - GENERAL
- 1.1 SUBMITTAL PROCEDURES
- A. ALL SUBMITTALS MUST BE TRANSMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL WITHIN THE FIRST 10 CALENDAR DAYS AFTER CONTRACT AWARD, UNLESS SPECIFICALLY PERMITTED TO BE DELAYED. IN WRITING, BY THE ARCHITECT. SUCH DELAY MUST BE REQUESTED IN WRITING, FULLY STATING SUPPORTIVE REASONS FOR THE DELAY, AND THE AMOUNT OF ADDITIONAL TIME REQUESTED. THE ARCHITECT WILL RESPOND IN WRITING WITH THE DECISION.
- B. COORDINATION: COORDINATE PREPARATION AND PROCESSING OF SUBMITTALS WITH PERFORMANCE OF CONSTRUCTION ACTIVITIES. TRANSMIT EACH SUBMITTAL SUFFICIENTLY IN ADVANCE OF PERFORMANCE OF RELATED CONSTRUCTION ACTIVITIES TO AVOID DELAY.
- C. COORDINATE TRANSMITTAL OF DIFFERENT TYPES OF SUBMITTALS FOR RELATED ELEMENTS OF THE WORK SO PROCESSING WILL NOT BE DELAYED BY THE NEED TO REVIEW SUBMITTALS CONCURRENTLY FOR COORDINATION.
- D. THE ARCHITECT RESERVES THE RIGHT TO WITHHOLD ACTION ON A SUBMITTAL REQUIRING COORDINATION WITH OTHER SUBMITTALS UNTIL ALL RELATED SUBMITTALS ARE RECEIVED. ACTION IS EXPECTED OF THE CONTRACTOR TO COORDINATE SUBMITTALS TO MINIMIZE SUCH ACTION.
- E. EACH SUBMITTAL MUST BE NUMBERED IN SEQUENTIAL NUMERICAL ORDER, CORRESPONDING TO THE NUMBER ASSIGNED TO THE SUBMITTAL AS SHOWN IN THE APPROVED SUBMITTAL SCHEDULE. THIS SUBMITTAL NUMBER MUST BE PLACED ON THE LOWER RIGHT CORNER, TOP SHEET, OR TOP SHEET OF MULTIPLE SHEETS, OF ALL SUBMITTAL COPIES.
5. PROCESSING: TO AVOID THE NEED TO DELAY INSTALLATION AS A RESULT OF THE TIME REQUIRED TO PROCESS SUBMITTALS, ALLOW SUFFICIENT TIME FOR SUBMITTAL REVIEW, INCLUDING TIME FOR RESUBMITTALS.
- A. ALLOW 7 DAYS FOR INITIAL REVIEW. ALLOW ADDITIONAL TIME IF THE ARCHITECT MUST RELAY TO ENGINEERS FOR REVIEW.
- B. IF AN INTERMEDIATE SUBMITTAL IS NECESSARY, PROCESS THE SAME AS THE INITIAL SUBMITTAL.
- C. ALLOW 3 DAYS FOR REPROCESSING EACH RE-SUBMITTAL.
- D. THE ARCHITECT MAY ADVISE THE CONTRACTOR WHEN A SUBMITTAL BEING PROCESSED MUST BE DELAYED FOR COORDINATION, OTHERWISE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FULLY COORDINATE ALL SUBMITTAL REQUIREMENTS, INCLUDING SUB-CONTRACTORS.
- E. NO EXTENSION OF CONTRACT TIME WILL BE AUTHORIZED BECAUSE OF FAILURE TO TRANSMIT SUBMITTALS TO THE ARCHITECT SUFFICIENTLY IN ADVANCE OF THE WORK TO PERMIT PROCESSING AS DESCRIBED HEREIN.
- F. SUBMIT 5 COPIES OF EACH SUBMITTAL.
- G. SUBMITTAL PREPARATION: PLACE A PERMANENT LABEL OR TITLE BLOCK ON EACH SUBMITTAL FOR IDENTIFICATION. INDICATE THE NAME OF THE ENTITY THAT PREPARED EACH SUBMITTAL ON THE LABEL OR TITLE BLOCK.
1. INCLUDE THE FOLLOWING INFORMATION ON THE LABEL FOR PROCESSING AND RECORDING ACTION TAKEN.
- A. PROJECT NAME.
- B. DATE.
- C. NAME AND ADDRESS OF THE ARCHITECT.
- D. NAME AND ADDRESS OF THE CONTRACTOR.
- E. NAME AND ADDRESS OF THE SUBCONTRACTOR OR FIRM AND ADDRESS OF THE SUPPLIER OR MANUFACTURER.
- F. NUMBER AND TITLE OF APPLICABLE SPECIFICATION SECTION.
- G. DRAWING NUMBER AND DETAIL REFERENCES, AS APPROPRIATE.
- H. SUBMITTAL NUMBER.
2. SUBMITTAL TRANSMITTAL: PACKAGE EACH SUBMITTAL APPROPRIATELY FOR TRANSMITTAL AND HANDLING. TRANSMIT EACH SUBMITTAL FROM THE CONTRACTOR TO THE ARCHITECT USING A TRANSMITTAL FORM. THE ARCHITECT WILL NOT ACCEPT SUBMITTALS RECEIVED FROM SOURCES OTHER THAN THE CONTRACTOR.
- 1.2 SHOP DRAWINGS
- A. THESE PROCEDURES MUST BE FOLLOWED BY ALL PARTIES WITHOUT DEVIATION, UNLESS APPROVED IN WRITING BY THE ARCHITECT. LOSS OF CONSTRUCTION TIME DUE TO THE CONTRACTOR'S UNWILLINGNESS TO ADOPT AND FOLLOW THESE PROCEDURES WILL NOT BE CAUSE TO EXTEND THE CONTRACT COMPLETION DATE.
- B. SUBMIT NEWLY PREPARED INFORMATION DRAWN ACCURATELY TO SCALE. HIGHLIGHT, ENCLOSE, OR OTHERWISE INDICATE DEVIATIONS FROM THE CONTRACT DOCUMENTS. DO NOT REPRODUCE CONTRACT DOCUMENTS OR COPY STANDARD INFORMATION AS THE BASIS FOR SHOP DRAWINGS. STANDARD INFORMATION PREPARED WITHOUT SPECIFIC REFERENCE TO THE PROJECT IS NOT CONSIDERED A SHOP DRAWING AND WILL NOT BE ACCEPTED.
- C. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO CAUSE ALL SUBCONTRACTORS, SUPPLIERS, ETC. UNDER HIS CONTRACTUAL OBLIGATION, TO COMPLY WITH ALL OF THESE PROCEDURES HEREIN, IN FULL, AND WITHOUT DEVIATION.
- D. SHOP DRAWINGS INCLUDE FABRICATION AND INSTALLATION DRAWINGS, SETTING DRAWINGS, SCHEDULES, PATTERNS, TEMPLATES AND SIMILAR DRAWINGS. INCLUDING THE FOLLOWING INFORMATION:
1. DIMENSIONS.
2. IDENTIFICATION OF PRODUCTS AND MATERIALS INCLUDED BY SHEET AND DETAIL NUMBER.
3. IDENTIFICATION OF PRODUCTS AND MATERIALS INCLUDED BY SHEET AND DETAIL NUMBER.
4. NOTATION OF COORDINATION REQUIREMENTS.
5. NOTATION OF DIMENSIONS ESTABLISHED BY FIELD MEASUREMENT.
- E. SHOP DRAWINGS SHOULD BE COMPLETED SHOWING ALL NECESSARY DETAILS AND SPECIAL FINISHES. MANUFACTURER'S STANDARD DETAIL CUTS CAN BE USED ONLY IF THEY FULLY DEMONSTRATE ACTUAL DESIGN OR PROJECT CONDITIONS (AS DETERMINED BY THE ARCHITECT), OTHERWISE, NEW AND COMPREHENSIVELY DRAFTED DETAILS MUST BE SUBMITTED. NONCOMPLIANCE OF THIS REQUIREMENT WILL BE CAUSE FOR REJECTION OF SHOP DRAWINGS WITHOUT REVIEW.
- F. DRAWING SUBMITTAL: SUBMIT (1) PDF FILE OF EACH SHOP DRAWING, EXCEPT FOR TEMPLATES, PATTERNS AND SIMILAR, FULL-SIZE DRAWINGS, SUBMIT SHOP DRAWINGS ON SHEETS AT LEAST 8-1/2 BY 11 INCHES (215 BY 280 MM) BUT NO LARGER THAN 24 BY 36 INCHES (890 BY 1220 MM).
- G. THE CONTRACTOR SHALL PRINT OFF THE FINAL, APPROVED REPRODUCIBLE, SUCH AS SHEETS ARE NECESSARY FOR CONSTRUCTION USE. SUBCONTRACTORS USE COORDINATION NEEDS, SUCH AS MAINTENANCE MANUALS, ETC. OR OTHER REQUIREMENTS FOR "RECORD DOCUMENTS".
- H. THE CONTRACTOR SHALL BE RESPONSIBLE TO PRINT ALL NECESSARY COPIES OFF ANY SUBMITTAL REPRODUCIBLE. IT IS NOT NECESSARY TO EXECUTE THE WORK AFTER ARCHITECT'S APPROVAL, OR FOR INTERIM USE PRIOR TO FINAL ARCHITECT'S APPROVAL.
- I. DO NOT USE SHOP DRAWINGS (OR ALLOW THEM TO BE AT THE JOB SITE) WITHOUT AN APPROPRIATE FINAL STAMP INDICATING ACTION TAKEN.

- F. THE GENERAL CONTRACTOR IS TO REVIEW, APPROVE AND STAMP WITH THE CONTRACTOR'S ACTION, ALL SUBMITTALS PRIOR TO TRANSMITTING TO ARCHITECT. EACH SUBMITTAL SHALL BEAR THE LEGIBLE ACTION STAMP OF THE CONTRACTOR. IF, DURING THE COURSE OF CONTRACTOR'S REVIEW, THE SUBMITTAL IS FOUND TO CONTAIN MANY ERRORS, THE CONTRACTOR SHALL HAVE THOSE ERRORS CORRECTED AND RE-SUBMITTAL MADE, PRIOR TO HAVING THE ARCHITECT INITIALLY REVIEW THE SUBMITTAL.
- 1.4 QUALITY ASSURANCE SUBMITTALS
- A. SUBMITTAL CONTROL: SUBMITTALS, INCLUDING DESIGN DATA, CERTIFICATIONS, MANUFACTURER'S INSTRUCTIONS, MANUFACTURER'S FIELD REPORTS, AND OTHER QUALITY-CONTROL SUBMITTALS AS REQUIRED UNDER OTHER SECTIONS OF THE SPECIFICATIONS.
- B. CERTIFICATIONS: WHERE OTHER SECTIONS OF THE SPECIFICATIONS REQUIRE CERTIFICATION THAT A PRODUCT, MATERIAL OR INSTALLATION COMPLETES WITH SPECIFIED REQUIREMENTS, SUBMIT A NOTICED CERTIFICATION FROM THE MANUFACTURER CERTIFYING COMPLIANCE WITH SPECIFIED REQUIREMENTS.
- 1.5 ARCHITECT'S ACTION
- A. EXCEPT FOR SUBMITTALS FOR THE RECORD OR INFORMATION, WHERE ACTION AND RETURN IS REQUIRED, THE ARCHITECT WILL REVIEW EACH SUBMITTAL, MARK TO INDICATE ACTION TAKEN, AND RETURN PROMPTLY.
1. COMPLIANCE WITH SPECIFIED CHARACTERISTICS IS THE CONTRACTOR'S RESPONSIBILITY.
- B. ACTION STAMP: THE ARCHITECT WILL STAMP EACH SUBMITTAL WITH A UNIFORM, SELF-EXPLANATORY ACTION STAMP. THE ARCHITECT WILL MARK THE STAMP APPROPRIATELY TO INDICATE THE ACTION TAKEN, AS FOLLOWS:
1. FINAL UNRESTRICTED RELEASE: WHEN THE ARCHITECT MARKS A SUBMITTAL "APPROVED," THE WORK COVERED BY THE SUBMITTAL MAY PROCEED PROVIDED IT COMPLIES WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS. FINAL PAYMENT DEPENDS ON THAT ACTION.
2. FINAL-BUT-RESTRICTED RELEASE: WHEN THE ARCHITECT MARKS A SUBMITTAL "APPROVED WITH CHANGES NOTED," THE WORK COVERED BY THE SUBMITTAL MAY PROCEED PROVIDED IT COMPLIES WITH NOTATIONS OR CORRECTIONS OR INTERESTS RELATIVE TO THE SUBMITTAL AND REQUIREMENTS OF THE CONTRACT DOCUMENTS. FINAL PAYMENT DEPENDS ON THAT COMPLIANCE.
3. RETURNED FOR RESUBMITTAL: WHEN THE ARCHITECT MARKS A SUBMITTAL "REVISE AND RESUBMIT," REVEAL OTHER ITEMS OF SIGNIFICANCE THAT COULD AFFECT PROGRESS. PURCHASING, FABRICATION, DELIVERY, OR OTHER ACTIVITY. REVERSE OR PREPARE A NEW ACTION MARK. THE ARCHITECT WILL RETURN THE SUBMITTAL WITHOUT DELAY. REPEAT IF NECESSARY TO OBTAIN DIFFERENT ACTION MARK.
4. DO NOT USE, OR ALLOW OTHERS TO USE, SUBMITTALS MARKED "REVISE AND RESUBMIT," OR "REJECTED" AT THE PROJECT SITE OR ELSEWHERE WHERE WORK IS IN PROGRESS.
5. OTHER ACTION: WHERE A SUBMITTAL IS FOR INFORMATION OR RECORD PURPOSES OR WHERE THE ARCHITECT MAKES NO ACTION MARK, THE ARCHITECT WILL RETURN THE SUBMITTAL MARKED "NO ACTION REQUIRED."
- C. UNSOLICITED SUBMITTALS: THE ARCHITECT WILL NOT REVIEW UNSOLICITED SUBMITTALS.

- 1.6 SUBMITTALS
- A. SUBMITTALS: IN ADDITION TO PRODUCT DATA, SUBMIT SHOP DRAWINGS, INSTALLATION INSTRUCTIONS, COLOR SAMPLES, AND GENERAL RECOMMENDATIONS, AS APPLICABLE TO MATERIALS AND FINISHES FOR EACH COMPONENT AND FOR TOTAL PANEL ASSEMBLIES. THE LIST INCLUDES BUT NOT LIMITED TO THE FOLLOWING:
- ARCHITECTURAL
1. DOOR AND WINDOW SCHEDULE AND COMPONENTS.
2. EXTERIOR SHOP DRAWINGS:
3. ALUMINUM STOREFRONT SYSTEM SHOP DRAWINGS WITH SAMPLE COLOR.
4. GLASS PRODUCT CRAWFORD SHOP DRAWINGS WITH SAMPLE COLOR.
5. PAINT COLOURS.
6. FINISH MATERIAL SAMPLES
- MECHANICAL/ELECTRICAL
1. HVAC LIMITS
2. EXHAUST FANS
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CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS - SECTION 015000

- PART 1 - GENERAL
- 1.1 SUMMARY
- A. TEMPORARY FACILITIES AND TEMPORARY CONTROLS, INCLUDING TEMPORARY UTILITIES, SUPPORT FACILITIES, AND SECURITY AND PROTECTION.
- B. TEMPORARY UTILITIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. WATER SERVICE AND DISTRIBUTION.
2. TEMPORARY ELECTRICAL POWER AND LIGHT.
3. TEMPORARY HEAT.
4. VENTILATION.
5. TELEPHONE/IT SERVICE.
6. SANITARY FACILITIES, INCLUDING DRINKING WATER.
7. STORM AND SANITARY SEWER.
- C. SUPPORT FACILITIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. FIELD OFFICES.
2. TEMPORARY PROJECT IDENTIFICATION SIGNS AND BULLETIN BOARDS.
3. WASTE DISPOSAL SERVICES.
4. CONSTRUCTION AIDS AND MISCELLANEOUS SERVICES AND FACILITIES.
- D. SECURITY AND PROTECTION FACILITIES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
1. TEMPORARY FIRE PROTECTION.
2. BARBED WIRE, WARNING SIGNS, AND LIGHTS.
3. ENCLOSURE FENCE FOR THE SITE.
- E. STANDARDS: COMPLY WITH NFPA 241 "STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATIONS, AND DEMOLITION OPERATIONS" AND AIO SERIES STANDARDS FOR "SAFETY REQUIREMENTS FOR CONSTRUCTION AND DEMOLITION," AND NECA ELECTRICAL DESIGN LIBRARY "TEMPORARY ELECTRICAL FACILITIES."
- F. INSPECTIONS: ARRANGE FOR AUTHORITIES HAVING JURISDICTION TO INSPECT AND TEST EACH TEMPORARY UTILITY BEFORE USE. OBTAIN REQUIRED CERTIFICATIONS AND PERMITS.
- G. CONDITIONS OF USE: KEEP TEMPORARY SERVICES AND FACILITIES CLEAN AND HEAT IN APPROPRIATE. OPERATE IN A SAFE AND EFFICIENT MANNER. RELOCATE TEMPORARY SERVICES AND FACILITIES AS THE WORK PROGRESSES. DO NOT OVERLOAD FACILITIES OR PERMIT THEM TO INTERFERE WITH PROGRESS. TAKE NECESSARY FIRE-PREVENTION MEASURES. DO NOT ALLOW HAZARDOUS, DANGEROUS, OR UNSAUNTY CONDITIONS, OR PUBLIC NUISANCES TO DEVELOP OR PERSIST ON-SITE.
- 1.2 PRODUCTS
- A. ELECTRICAL OUTLETS: PROVIDE PROPERLY CONFIGURED, UL RATED, NEMA-POLARIZED OUTLETS TO PREVENT INSERTION OF 110- TO 120-VOLT PLUGS INTO HIGHER VOLTAGE OUTLETS. PROVIDE RECEPTACLE OUTLETS EQUIPPED WITH GROUND-FAULT CIRCUIT INTERRUPTERS, RESET BUTTON, AND PILOT LIGHT FOR CONNECTION OF POWER TOOLS AND EQUIPMENT.
- B. ELECTRICAL POWER CORDS: PROVIDE UL RATED, GROUNDED EXTENSION CORDS. USE HARD-SERVICE CORDS WHERE EXPOSED TO ABRASION AND TRAFFIC. PROVIDE WATER-RESISTANT CONNECTORS TO CONNECT SEPARATE LENGTHS OF ELECTRICAL CORDS IF SINGLE LENGTHS WILL NOT REACH AREAS WHERE CONSTRUCTION ACTIVITIES ARE IN PROGRESS. DO NOT EXCEED SAFE LENGTH-VOLTAGE RATIO.
- C. LAMPS AND LIGHT FIXTURES: PROVIDE UL RATED, GENERAL SERVICE, INCANDESCENT LAMPS OF WATTAGE REQUIRED FOR ADEQUATE ILLUMINATION. PROVIDE GUARD CAGES OR TEMPERED-GLASS ENCLOSURES WHERE EXPOSED TO MOISTURE. PROVIDE EXTERIOR FIXTURES WHERE EXPOSED TO MOISTURE.
- D. TEMPORARY TOILET UNITS: PROVIDE SELF-CONTAINED, SINGLE-OCCUPANT TOILET UNITS OF THE CHEMICAL, AERATED RECYCLATION, OR COMBUSTION TYPE. PROVIDE UNITS PROPERLY DESIGNED AND FULLY ENCLOSED WITH A GLASS-FIBER-REINFORCED POLYESTER SHELL OR SIMILAR NONABSORBENT MATERIAL.
- E. FIRE EXTINGUISHERS: PROVIDE HAND-CARRIED, PORTABLE, UL-RATED, CLASS A FIRE EXTINGUISHERS FOR TEMPORARY OFFICES AND SIMILAR SPACES. IN OTHER LOCATIONS, PROVIDE HAND-CARRIED, PORTABLE, UL-RATED, CLASS ABC, DRY-CHEMICAL EXTINGUISHERS OR A COMBINATION OF EXTINGUISHERS OF NFPA-RECOMMENDED CLASSES FOR THE EXPOSURES.
- F. COMPLY WITH NFPA 10 AND NFPA 241 FOR CLASSIFICATION, EXTINGUISHING AGENT, AND SIZE REQUIRED BY LOCATION AND CLASS OF FIRE EXPOSURE.
- G. FIRST AID SUPPLIES: COMPLY WITH GOVERNING REGULATIONS.

- 1.3 EXECUTION
- A. INSTALLATION
1. USE QUALIFIED PERSONNEL FOR INSTALLATION OF TEMPORARY FACILITIES. LOCATE FACILITIES WHERE THEY WILL SERVE THE PROJECT ADEQUATELY AND RESULT IN MINIMUM INTERFERENCE WITH PERFORMANCE OF THE WORK. RELOCATE AND MODIFY FACILITIES AS REQUIRED.
2. PROVIDE EACH FACILITY READY FOR USE WHEN NEEDED TO AVOID DELAY. MAINTAIN AND MODIFY AS REQUIRED. DO NOT REMOVE UNTIL FACILITIES ARE NO LONGER NEEDED OR ARE REPLACED BY AUTHORIZED USE OF COMPLETED PERMANENT FACILITIES AS REQUIRED.
- B. PROVIDE INCOMBUSTIBLE CONSTRUCTION FOR OFFICES, SHOPS, AND SHEDS LOCATED WITHIN THE CONSTRUCTION AREA OR WITHIN 30 FEET (9 M) OF BUILDING LINES. COMPLY WITH REQUIREMENTS OF NFPA 241.
- C. FIELD OFFICES: PROVIDE INSULATED, WEATHERPROOF TEMPORARY OFFICES OF SUFFICIENT SIZE TO ACCOMMODATE REQUIRED OFFICE PERSONNEL AT THE PROJECT SITE. KEEP THE OFFICE CLEAN AND ORDERLY FOR USE FOR SMALL PROGRESS MEETINGS. FURNISH AND EQUIP OFFICES AS FOLLOWS:
- D. FURNISH WITH A DESK AND CHAIRS, A 4-DRAWER FILE CABINET, PLAN TABLE, PLAN RACK, AND A 6-SHELF BOOKCASE. PROVIDE INTERNET ACCESS AND ACCESS TO EMAIL TO JOB SITE FACILITY.

SUBSTITUTIONS - SECTION 016000

- PART 1 - GENERAL
- 1.1 SUBSTITUTALS - SEE SECTION 013300 FOR SUBMITTAL INFORMATION
- A. SUBSTITUTION REQUEST SUBMITTAL: THE ARCHITECT WILL CONSIDER REQUESTS FOR NON-NATIONAL ACCOUNT VENDOR SUBSTITUTIONS IF RECEIVED WITHIN 10 DAYS AFTER COMMENCEMENT OF THE WORK. REQUESTS RECEIVED MORE THAN 10 DAYS AFTER COMMENCEMENT OF THE WORK MAY BE CONSIDERED OR REJECTED AT THE DISCRETION OF THE ARCHITECT.
1. SUBMIT REQUESTS IN THE FORM AND ACCORDING TO PROCEDURES REQUIRED FOR SUBMITTALS.
2. IDENTIFY THE PRODUCT OR THE FABRICATION OR INSTALLATION METHOD TO BE REPLACED IN EACH REQUEST. INCLUDE RELATED SPECIFICATION SECTION AND DRAWING NUMBERS.
3. PROVIDE COMPLETE DOCUMENTATION SHOWING COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS, AND THE FOLLOWING INFORMATION, AS APPROPRIATE:
4. ARCHITECT'S ACTION: IF NECESSARY, THE ARCHITECT WILL REQUEST ADDITIONAL INFORMATION OR DOCUMENTATION FOR EVALUATION WITHIN ONE WEEK OF RECEIPT OF A REQUEST FOR SUBSTITUTION. THE ARCHITECT WILL NOTIFY THE CONTRACTOR OF ACCEPTANCE OR REJECTION OF THE SUBSTITUTION WITHIN ONE WEEK OF RECEIPT OF THE REQUEST, OR ONE WEEK OR RECEIPT OF ADDITIONAL INFORMATION OR DOCUMENTATION, WHICHEVER IS LATER. ACCEPTANCE WILL BE IN THE FORM OF A CHANGE ORDER.
- A. G.C. IS EXPECTED TO USE THE PRODUCT SPECIFIED IF THE ARCHITECT IS UNABLE TO MAKE A DECISION ON THE USE OF A PROPOSED SUBSTITUTE WITHIN THE TIME ALLOCATED.
- PART 2 - PRODUCTS
- 2.1 SUBSTITUTIONS
- A. CONDITIONS: THE ARCHITECT WILL RECEIVE AND CONSIDER THE CONTRACTOR'S REQUEST FOR SUBSTITUTION WHEN ONE OR MORE OF THE FOLLOWING CONDITIONS ARE SATISFIED, AS DETERMINED BY THE ARCHITECT. IF THE FOLLOWING CONDITIONS ARE NOT SATISFIED, THE ARCHITECT WILL RETURN THE REQUESTS WITHOUT ACTION EXCEPT TO RECORD NONCOMPLIANCE WITH THESE REQUIREMENTS.
1. EXTENSIVE REVISIONS TO THE CONTRACT DOCUMENTS ARE NOT REQUIRED.
2. PROPOSED CHANGES ARE IN KEEPING WITH THE GENERAL INTENT OF THE CONTRACT DOCUMENTS.
3. THE REQUEST IS TIMELY, FULLY DOCUMENTED, AND PROPERLY SUBMITTED.
4. THE SPECIFIED PRODUCT OR METHOD OF CONSTRUCTION CANNOT BE PROVIDED WITHIN THE CONTRACT TIME. THE ARCHITECT WILL NOT CONSIDER THE REQUEST IF THE PRODUCT OR METHOD CANNOT BE PROVIDED WITHIN THE CONTRACT TIME OR IF THE FAILURE TO PURSUE THE WORK PROMPTLY OR COORDINATE ACTIVITIES PROPERLY.
5. THE REQUESTED SUBSTITUTION OFFERS THE OWNER A SUBSTANTIAL ADVANTAGE, IN COST, TIME, ENERGY CONSERVATION, OR OTHER CONSIDERATIONS, AFTER DEDUCTING ADDITIONAL RESPONSIBILITIES THE OWNER MUST ASSUME. THE OWNER'S ADDITIONAL RESPONSIBILITIES MAY INCLUDE COMPENSATION TO THE ARCHITECT FOR REDISIGN AND EVALUATION SERVICES, INCREASED COST OF OTHER CONSTRUCTION BY THE OWNER, AND SIMILAR CONSIDERATIONS.
6. THE SPECIFIED PRODUCT OR METHOD OF CONSTRUCTION CANNOT RECEIVE NECESSARY APPROVAL BY A GOVERNING AUTHORITY, AND THE REQUESTED SUBSTITUTION CAN BE APPROVED.
7. THE SPECIFIED PRODUCT OR METHOD OF CONSTRUCTION CANNOT BE PROVIDED IN A MANNER THAT IS COMPATIBLE WITH OTHER MATERIALS AND WHERE THE CONTRACTOR CERTIFIES THAT THE SUBSTITUTION WILL OVERCOME THE INCOMPATIBILITY.
8. THE SPECIFIED PRODUCT OR METHOD OF CONSTRUCTION CANNOT BE COORDINATED WITH MATERIALS AND WHERE THE CONTRACTOR CERTIFIES THAT THE PROPOSED SUBSTITUTION CAN BE COORDINATED.
9. THE SPECIFIED PRODUCT OR METHOD OF CONSTRUCTION CANNOT PROVIDE A WARRANTY REQUIRED BY THE CONTRACT DOCUMENTS AND THE CONTRACTOR CERTIFIES THAT THE PROPOSED SUBSTITUTION PROVIDES THE REQUIRED WARRANTY.
- B. THE CONTRACTOR'S SUBMITTAL AND THE ARCHITECT'S ACCEPTANCE OF SHOP DRAWINGS, PRODUCT DATA, OR SAMPLES FOR CONSTRUCTION ACTIVITIES NOT COMPLYING WITH THE CONTRACT DOCUMENTS DO NOT CONSTITUTE AN ACCEPTABLE OR VALID REQUEST FOR SUBSTITUTION, NOR DO THEY CONSTITUTE APPROVAL.

CONTRACT CLOSE-OUT - SECTION 017000

- 1.1 SUBSTANTIAL COMPLETION
- A. THE CONTRACTOR IS REQUIRED TO PROVIDE THE FOLLOWING CLOSE OUT MATERIALS TO TENANT SPECIFIED CLOSEOUT PACKAGE NATIONAL ACCOUNT VENDOR IN EITHER PAPER OR DIGITAL FORM. THE CONTRACTOR SHALL PROVIDE THE FOLLOWING CLOSE OUT MATERIALS TO THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR THE FEE ASSOCIATED WITH THE FINAL CLOSE OUT MANUAL.
1. COPY OF THE BUILDING PERMIT.
2. CERTIFICATES OF INSPECTIONS (IF APPLICABLE).
3. LIST OF ALL SUBCONTRACTORS, INCLUDING NAME, TRADE, CONTACT PERSON, AND PHONE #.
4. GENERAL AND SUB-CONTRACTOR WARRANTY FORM.
5. EQUIPMENT OPERATION AND MAINTENANCE MANUALS AND EQUIPMENT WARRANTIES.
6. AS-BUILT DRAWINGS - ORIGINALS OR ELECTRONIC FILE.
7. COMPLETED PUNCH LIST SIGNED OFF BY TENANT'S REPRESENTATIVE.
8. SKETCH SHOWING LOCATIONS OF SHUT-OFF VALVES FOR WATER, GAS, AND ELECTRIC.
- 1.2 PRODUCTS
- A. SUMMARY
1. ENVIRONMENTAL REQUIREMENTS: CONDUCT CLEANING AND WASTE-DISPOSAL OPERATIONS IN COMPLIANCE WITH LOCAL LAWS AND ORDINANCES. COMPLY FULLY WITH FEDERAL AND LOCAL ENVIRONMENTAL AND ANTI POLLUTION REGULATIONS.
- B. PRODUCTS
1. CLEANING AGENTS: USE CLEANING MATERIALS AND AGENTS RECOMMENDED BY THE MANUFACTURER OR FABRICATOR OF THE SURFACE TO BE CLEANED. DO NOT USE CLEANING AGENTS THAT ARE POTENTIALLY HAZARDOUS TO HEALTH OR PROPERTY OR THAT MIGHT DAMAGE FINISHED SURFACES.
- C. EXECUTION - COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR FINAL COMPLETION FOR THE ENTIRE PROJECT.
1. CLEAN THE PROJECT SITE, YARD AND GROUNDS, IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING ALL SOIL DEVELOPMENT AREAS, OF RUBBISH, WASTE MATERIAL, LITTER, AND FOREIGN SUBSTANCES.
2. SWEEP PAVED AREAS BROOM CLEAN AND POWER WASH ALL DIRT AND MATERIALS WHICH CAN BE TRACKED INTO THE BUILDING. RAMP GROUNDS THAT ARE NEITHER PLANTED NOR PAVED TO A SMOOTH, EVEN-TEXTURED SURFACE.
3. REMOVE PETROCHEMICAL SPILLS, STAINS, AND OTHER FOREIGN DEPOSITS, INCLUDING EXCESS CONCRETE AND PORTLAND CEMENT.
4. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, AND SURPLUS MATERIAL FROM THE SITE.
5. DAMP CLEAN AND DRY EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHES TO A DRY-FREE CONDITION, FREE OF STAINS, FILMS, AND SIMILAR FOREIGN SUBSTANCES AND DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES. RESTORE REFLECTIVE SURFACES TO THEIR ORIGINAL CONDITION.
6. REMOVE DEBRIS AND SURFACES FROM LIMITED ACCESS SPACES, INCLUDING ROOFS, PLUMBING SHAFTS, TRENCHES, EQUIPMENT VAULTS, MANHOLES, ATTICS, AND SIMILAR SPACES.
7. NOT USED
8. CLEAN TRANSPARENT MATERIALS, INCLUDING MIRRORS AND GLASS IN DOORS AND WINDOWS. REMOVE AND DISPOSE OF TRANSPARENT MATERIALS THAT ARE UNRECOVERABLE VISION-OBSCURING MATERIALS. REPLACE CRACKED OR BROKEN GLASS AND OTHER DAMAGED TRANSPARENT MATERIALS. POLISH MIRRORS AND GLASS, TAKING CARE NOT TO SCRATCH SURFACES.
9. REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
10. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARKED, EXPOSED FINISHES AND SURFACES. REPAIR FINISHES AND SURFACES THAT CANNOT BE SATISFACTORILY REPAIRED OR RESTORED OR THAT ALREADY SHOW EVIDENCE OF REPAIR OR RESTORATION.
- A. DO NOT PAINT OVER "UL" AND SIMILAR LABELS, INCLUDING MECHANICAL AND ELECTRICAL NAMEPLATES.

FINAL CLEANING - SECTION 017100

- A. SUMMARY
1. ENVIRONMENTAL REQUIREMENTS: CONDUCT CLEANING AND WASTE-DISPOSAL OPERATIONS IN COMPLIANCE WITH LOCAL LAWS AND ORDINANCES. COMPLY FULLY WITH FEDERAL AND LOCAL ENVIRONMENTAL AND ANTI POLLUTION REGULATIONS.
- B. PRODUCTS
1. CLEANING AGENTS: USE CLEANING MATERIALS AND AGENTS RECOMMENDED BY THE MANUFACTURER OR FABRICATOR OF THE SURFACE TO BE CLEANED. DO NOT USE CLEANING AGENTS THAT ARE POTENTIALLY HAZARDOUS TO HEALTH OR PROPERTY OR THAT MIGHT DAMAGE FINISHED SURFACES.
- C. EXECUTION - COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR FINAL COMPLETION FOR THE ENTIRE PROJECT.
1. CLEAN THE PROJECT SITE, YARD AND GROUNDS, IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING ALL SOIL DEVELOPMENT AREAS, OF RUBBISH, WASTE MATERIAL, LITTER, AND FOREIGN SUBSTANCES.
2. SWEEP PAVED AREAS BROOM CLEAN AND POWER WASH ALL DIRT AND MATERIALS WHICH CAN BE TRACKED INTO THE BUILDING. RAMP GROUNDS THAT ARE NEITHER PLANTED NOR PAVED TO A SMOOTH, EVEN-TEXTURED SURFACE.
3. REMOVE PETROCHEMICAL SPILLS, STAINS, AND OTHER FOREIGN DEPOSITS, INCLUDING EXCESS CONCRETE AND PORTLAND CEMENT.
4. REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, AND SURPLUS MATERIAL FROM THE SITE.
5. DAMP CLEAN AND DRY EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHES TO A DRY-FREE CONDITION, FREE OF STAINS, FILMS, AND SIMILAR FOREIGN SUBSTANCES AND DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES. RESTORE REFLECTIVE SURFACES TO THEIR ORIGINAL CONDITION.
6. REMOVE DEBRIS AND SURFACES FROM LIMITED ACCESS SPACES, INCLUDING ROOFS, PLUMBING SHAFTS, TRENCHES, EQUIPMENT VAULTS, MANHOLES, ATTICS, AND SIMILAR SPACES.
7. NOT USED
8. CLEAN TRANSPARENT MATERIALS, INCLUDING MIRRORS AND GLASS IN DOORS AND WINDOWS. REMOVE AND DISPOSE OF TRANSPARENT MATERIALS THAT ARE UNRECOVERABLE VISION-OBSCURING MATERIALS. REPLACE CRACKED OR BROKEN GLASS AND OTHER DAMAGED TRANSPARENT MATERIALS. POLISH MIRRORS AND GLASS, TAKING CARE NOT TO SCRATCH SURFACES.
9. REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
10. TOUCH UP AND OTHERWISE REPAIR AND RESTORE MARKED, EXPOSED FINISHES AND SURFACES. REPAIR FINISHES AND SURFACES THAT CANNOT BE SATISFACTORILY REPAIRED OR RESTORED OR THAT ALREADY SHOW EVIDENCE OF REPAIR OR RESTORATION.
- A. DO NOT PAINT OVER

PROJECT MANUAL AND SPECIFICATIONS

* THE TERMS GENERAL CONTRACTOR, G.C. AND CONTRACTOR SHALL BE INTERCHANGEABLE.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify substrates, framing, and elevations are true, properly sloped for drainage where applicable, and securely fastened. Do not begin until unsatisfactory conditions are corrected.

3.2 PREPARATION

A. Coordinate with waterproofing and flashing at ledgers, thresholds, posts, and penetrations.

B. Provide shims/spacers at fascia per manufacturer to allow ventilation and accommodate expansion/contraction.

3.3 INSTALLATION

A. Install decking strictly in accordance with the **current Trex Decking Installation Guide and accessories instructions; use only manufacturer-approved fasteners.

B. Joint Spacing and Orientation:

1. Set joints at 90° to board direction unless otherwise shown; when boards run diagonally, reduce spacing to **12 in O.C.**
2. For 2x6 boards, spacing up to **16 in O.C.** may be used where permitted by manufacturer and code.

C. Gapping/Movement:

1. Provide side and end gaps based on ambient temperature at installation; maintain required clearances to walls, posts, and fixed obstructions.
2. Stagger butt joints and provide additional blocking (nailer) under all end joints; do not "butt-tight."

D. Borders and Stairs:

1. Use **square-edge** boards at picture frame borders and stair treads. Install continuous blocking at all borders and risers.
2. Fasten stair treads to **every stringer** per guide; maximum tread overhang 3/4 in unless otherwise approved by manufacturer.

E. Fascia Installation:

1. Install per manufacturer's fascia guide, including **spacer/vent strip** and fastener pattern to mitigate air-cleaning. Provide required gaps at ends and abutments.

F. Field Quality Control:

1. Remove boards with defects, damage, or improper finish.

2. Replace metal filings/swarf immediately to avoid staining.

3.4 CLEANING AND PROTECTION

A. Clean completed work; remove debris and construction residues per manufacturer's care and cleaning guidance.

B. Protect finished decking from subsequent construction activities until Substantial Completion.

JOINT SEALERS - 079200

A. JOINT SEALERS: PROVIDE JOINT SEALERS IN THE FOLLOWING LOCATIONS:

1. PERIMETER OF DOOR FRAMES.
2. PERIMETER OF PENETRATIONS IN THE BUILDING WALL.
3. ABUTMENT OF DISSIMILAR MATERIALS.

4. ACoustICAL SEALANT AT BASE OF GYPSUM BOARD WALLS WITH SOUND ATTENUATION INSULATION.

B. PROVIDE JOINT SEALERS, JOINT FILLERS AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES.

1. PROVIDE SEALANTS AS MANUFACTURED BY TREMCO OR ARCHITECT APPROVED EQUAL. COMPLY WITH ASTM C-920.

a) SEALANT: TWO COMPONENT URETHANE – TREMCO DYMERIC SIL*.

b) ACoustICAL SEALANT: ACRYLIC LATEX, TREMCO J834.

C. JOINT SOLANT BACKING

1. PLASTIC FOAM FILLERS: CLOSED-CELL POLYETHYLENE FOAM.

2. BOND BREAKER: PROVIDE POLYETHYLENE TAPE OR OTHER PLASTIC TAPE AS RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT FILLER MATERIALS OR JOINT SURFACES. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.

D. PRIMER: PROVIDE TYPE RECOMMENDED BY JOINT SEALANT MANUFACTURER WHERE REQUIRED FOR ADHESION OF SEALANT TO JOINT SUBSTRATES INDICATED. JOINT SUBSTRATES INDICATED.

E. PROVIDE SEALANT BACKINGS OF MATERIALS AND TYPE WHICH ARE NON-STAINING AND ARE RECOMMENDED BY THE SEALANT MANUFACTURER.

F. COLOR: SEALANT COLOR SHALL MATCH COLOR OF ADJACENT WALL SURFACE.

PAINT - 099100

A. PROVIDE THE FOLLOWING PAINT SYSTEMS AND SURFACE PREP SPECIFICATIONS AS SPECIFIED BY BENJAMIN MOORE OR ARCHITECT APPROVED EQUAL:

1. CONCRETE PANELS (INTERIOR) – IF APPLICABLE

A. SURFACE PREPARATION: MANUFACTURER'S STANDARD

B. PRIMER: MASONRY PRIMER – 1 COAT, 3 MILS DFT.

C. PAINT: AURA INTERIOR LATEX SATIN, 2 COATS, 1.3 MILS DFT.

2. INTERIOR FERROUS METALS:

A. ALL FERROUS METAL ITEMS SHALL BE SHOP PRIMED. COORDINATE PRIMER WITH PAINT COATING SYSTEM.

B. PAINT: AURA INTERIOR LATEX SATIN, 2 COATS, 1.3 MILS DFT.

3. INTERIOR GALVANIZED FERROUS METALS

A. SURFACE PREPARATION: MANUFACTURER'S STANDARD

B. PRIMER: GALVITE HS PRIMER – 1 COAT, 3 MILS DFT.

C. PAINT: AURA INTERIOR LATEX SATIN, 2 COATS, 1.3 MILS DFT.

4. GYPSUM DRYWALL PARTITIONS, SOFFITS, AND CEILINGS

A. SURFACE PREPARATION: GYPSUM BOARD: MANUFACTURER'S STANDARD

B. PRIMER: BM-K380-00 CLASSIC LATEX PRIMER, 1 COAT, 1.6 MILS DFT.

C. PAINT: AURA LATEX SATIN OR HIGH REFLECTIVE, 2 COATS, 1.3 MILS DFT.

5. EXTERIOR FERROUS METAL

A. SURFACE PREPARATION: MANUFACTURER'S STANDARD

B. PRIMER: ALL FERROUS METAL ITEMS SHALL BE SHOP PRIMED. COORDINATE PRIMER WITH PAINT COATING SYSTEM.

C. PAINT: BM EXTERIOR ACRYLIC LATEX GLOSS, 2 COATS, 1.3 MILS DFT.

6. EXTERIOR GALVANIZED METAL:

A. SURFACE PREPARATION: MANUFACTURER'S STANDARD

B. PRIMER: DTM ACRYLIC PRIMER/FINISH, 1 COAT, 2.5 MILS DFT.

C. PAINT: BM EXTERIOR ACRYLIC LATEX GLOSS, 2 COATS, 1.3 MILS DFT.

7. FLOOR SEALER/HARDENER

A. SEALER/HARDENER: MANUFACTURER'S STANDARD

B. ALLOW NEW CONCRETE TO CURE FOR AT LEAST THREE DAYS PRIOR TO APPLICATION.

C. SURFACE PREPARATION: CLEAN SURFACE AS RECOMMENDED BY MANUFACTURER. REMOVE ALL RESIDUE, OIL, SEALERS, CONTAMINANTS, AND EXCESS LATEX.

D. APPLY AT THE RATE OF 150 TO 200 S.F. PER GALLON.

E. FOLLOW MANUFACTURER'S DIRECTIONS FOR APPLICATION AND FINISHING.

9. MASONRY SEALER/STAIN

A. SEALER/STAIN: MANUFACTURER'S STANDARD

B. SURFACE PREPARATION & APPLICATION: PER MANUFACTURER RECOMMENDATIONS. AND WRITTEN INSTRUCTIONS.

C. PROVIDE SEALER ON ALL EXTERIOR MASONRY SURFACES.

LANDSCAPE GRAVEL AND SUBSTRATES - 321540

PART 1 – GENERAL

1.1 SUMMARY

A. Provide labor, materials, and equipment for "landscape gravel surfacing** and supporting **substrates** including subgrade prep, separation geotextiles, aggregate base courses, edging/containment, and surface courses (see grade, crushed stone, DG – natural or stabilized).

B. Related Sections: 31 20 00 Earth Moving; 31 25 00 Erosion Control; 32 11 23 Aggregate Base Courses; 32 13 13 Concrete Paving; 32 85 00 Planting.

1.2 REFERENCES

A. **ASTM D448** – Standard Sizes of Coarse Aggregate.
B. **ASTM C136/C136M** – Sieve Analysis of Fine and Coarse Aggregates.
C. **ASTM D698 / D1557** – Laboratory Compaction (Standard/Modified Proctor).
D. **ASTM D698** – In-Place Density by Nuclear Methods.
E. **ASTM D4318** – Liquid Limit, Plastic Limit, and Plasticity Index.
F. **ASTM M 147** – Materials for Aggregate and Soil/Aggregate Base and Surface Courses.
G. **ASTM M 288** – Geotextile Specification for Highway Applications (Separation/Filtration).
H. **ASTC 7** – Wind, rainfall, and drainage criteria (consultation only).

1.3 SUBMITTALS

A. Product Data: Source and type of aggregates; stabilizer/binder technical data (if used); geotextile data (weight, permeability, grab strength, UV).
B. Sieve Analysis: Current **gradation reports** for each aggregate type from the supplying quarry (dated <30 days before submittal).
C. Samples: 2 lb of each surface aggregate color/size; 1 sf of geotextile.
D. Mandatory Mock-Up: Minimum 25 sf of each assembly, including edging; demonstrate finish, drainage, and compaction.
E. QA Reports: Density/moisture test results for base and stabilized DG (if specified).

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Minimum 2 projects of similar scope in last 3 years.
B. Single Source: Furnish each aggregate type from one quarry to ensure color/gradation uniformity.
C. Testing: Contractor to retain on independent testing agency when field density testing is required by the drawings or this Section.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver clean, uncontaminated aggregates; protect from segregation and excess moisture.
B. Store geotextiles dry and protected from sunlight until installation.

1.6 WARRANTY

A. One-year warranty against raveling beyond normal wear, ponding due to improper slopes, and displacement due to inadequate confinement, excluding damage by others or unusual storm events.

PART 2 – PRODUCTS

2.1 GENERAL REQUIREMENTS – AGGREGATES

A. Sound, durable natural stone materials, free of clay lumps, organic matter, and deleterious substances.
B. **Angular crushed** aggregates for base and DG; **rounded** pea gravel permitted only where noted.
C. LA Abrasion (if specified): <40%.
D. Fine Quality: Plasticity Index (PI) of mass **≤6** (DO source mixes may require PI 3-6 for binding).
E. Moisture: Deliver near optimum for placement and compaction.

2.2 SEPARATION GEOTEXTILE (WEED BARRIER)

A. Nonwoven, needle-punch needlefelt meeting **ASTM M 288, Class 2** (Separation):

1. Mass: **≥4.0 oz/sy**.
2. Grab Tensile: **≥90 lb**.
3. Permeability: **≥1.0 s**.
4. UV Resistance: **≥70%** retained at 500 hr.
5. Woven geotextiles may be used where higher strength is required; do **not** use vapor impermeable plastics.

2.3 AGGREGATE BASE COURSE (SUBBASE)

A. **3/4"-minus** crushed aggregate base conforming to **ASTM M 147** or local DOT base course standards; well-graded with fines to aid compaction to a minimum depth of 6".
B. Gradation (example): 100% passing 3/4"; 55-65% passing No. 4; 25-45% passing No. 40; **≥3-8% passing No. 200**.
C. Use recycled concrete aggregate (RCA) only when approved and meeting gradation/contamination limits.

2.4 SURFACE AGGREGATES (AS APPROVED BY SUBMISSION)

A. **Crushed Rock Mulch** Angular **3/8"-minus** or **1/2"-minus**; well-graded; color as scheduled. Depth: **≥2-3**.
B. **Decomposed Granite (DG) – Natural** **3/8"-minus** well-graded with fines; PI 3-6 preferred; Depth: **≥2" compacted** (≈2.1/2" loose).
C. **DG – Stabilized (ADA-Friendly Pathways/Plazas)** DG as above with **polymeric or organic binder** per manufacturer; binder content **≤1-10% by weight** of dry aggregate (adjust per submittal).
E. **Drainage Rock (French Drains/Swales)** Washed **ASTM D448 Size No. 57** (≈1" nominal); no fines.

2.5 EDGING / CONTAINMENT

A. **Steel Edging** 1/8" × 4" (min) mild steel with 10" steel stakes at **24-36 O.C.**; factory black enamel or weathering steel.
B. **Concrete Mow Strip/Border** 4" (min) thick, 12" wide (typ.), tooled joints at **4" O.C.**.

2.6 WATER AND ACCESSORIES

A. Potable water for moisture conditioning and curing stabilized mixes.
B. Primer/Sealer (if specified): Provide manufacturer's full system, including topical sealer for stabilized DG when required.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Verify subgrades are at proper elevation, uniformly sloped to drain **≥1.5%** (accessible routes **≥1.2%** cross-slope max per code).
B. Proof-roll to identify soft or pumping areas; undercut and replace unsuitable soils.

3.2 PREPARATION

A. **Subgrade Compaction**:

1. Landscape areas: **≥90%** of **ASTM D698** (Std Proctor).
2. Walks/Plazas/Drives: **≥95%** of **ASTM D1557** (Modified).
3. Moisture condition to within **±2%** of optimum prior to placing base.
C. Install sleeves/edge restraints prior to surfacing.

3.3 GEOTEXTILE INSTALLATION

A. Place geotextile over prepared subgrade; **overlap 12" (min)** and extend up edges behind edging.
B. Secure with landscape staples at **24-36 O.C.** to prevent displacement.

3.4 BASE COURSE INSTALLATION

A. Place base in **≥3" compacted lifts**; compact each lift to **≥95% of ASTM D1557**.
B. Finish surface true to line/grade; tolerance **±1/4" in 10**'; maintain uniform slope to drains.
C. Lightly water between compaction passes to achieve density without pumping.

3.5 SURFACE COURSE INSTALLATION

A. **Natural DG** Place **≈2 1/2" loose**; moisture condition to near optimum; compact with **vibratory plate (smooth pad)** to **≈2" compacted**; fog lightly to lock surface.
B. **Stabilized DG** Mix binder and DG per manufacturer (mechanical pugmill or on-grade "dry blend" as permitted); moisture to specified range; place in two lifts if total >2"; compact to manufacturer density; screed smooth.
C. **Curing (Stabilized DG)** Protect from traffic and precipitation until set; apply topical sealer if specified.

3.6 FIELD QUALITY CONTROL

A. Perform **in-place density tests** for base and stabilized DG at **≥1 per 2,000 sft** (min one per area).
B. Verify final slopes with a 10' straightedge and digital level.

3.7 CLEANING AND PROTECTION

A. Remove surplus material and clean adjacent pavements.

B. Protect completed surfaces from traffic until acceptance.

3.8 MAINTENANCE

A. Re-roke stabilized gravel after first 60 Days; top-up thin areas.

B. For stabilized DG, re-seal or spot repair per manufacturer if raveling exceeds 1/4" depth.

ADDENDUM A -- ADA-Accessible Routes

A1. Performance Criteria (Accessibility)

A. Provide lanes on designated Accessible Routes shall be firm, stable, and slip resistant per 2010 ADA Standards and U.S. Access Board guidance.
B. Slope limits: Running slope <= 5.0% (1:20) to remain a walking surface; if greater, treat as Ramp per ADA (coordinate handrails/landings in paving section). Cross-slope <= 2.0%.
C. Surface continuity: Joints and transitions <= 1/4" in without bevel; 1/4"-1/2" in beveled at 1:2 max. Avoid concrete list at edges and utility covers.

A2. Assembly (Basis of Design – Stabilized DG)

A. Surface Course: Stabilized Decomposed Granite (DG), 3/8" minus well-graded with fines; binder (organic or polymer) 5-10% by weight of dry aggregate (per manufacturer + submittal). Color as scheduled.
B. Thickness: 2.0 in compacted (≈2.1/2" in loose). Place in two lifts if needed to achieve density and finish.
C. Base Course: 4.0 in compacted 3/4" minus crushed aggregate base (95% Mod. Proctor). Increase to 6.0 in minimum over weak subgrades (or where freeze-thaw/heavy use is expected).
D. Geotextile: Nonwoven separation fabric, Class 2, full-coverage with 12" laps; extend behind edging.
E. Edging/Containment: 1/2"-x steel edging or concrete bond; flush with adjacent pavements; maintain 0-1/8" differential at transitions.

A3. Not Used

A4. Installation – ADA Focus

A. Moisture-condition DG/binder mix to manufacturer range; mechanically blend (pugmill or on-grade rotary mixing) for uniformity.
B. Screed to grade; compact with smooth-pad vibratory plate/roller to achieve dense, closed surface free of ruts and roller marks.
C. Curing/Protection: Protect from traffic and precipitation for the full initial cure period; install barricades and signage.

SITE CAST-IN-PLACE CONCRETE - 321213

PART 1 – GENERAL

1.1 SUMMARY

A. Furnish and install exterior **site concrete paving** including subgrade prep, aggregate base, formwork, reinforcement, concrete materials, joints, curing, sealing, and incidental items.

B. Related Sections: 31 20 00 Earth Moving; 32 11 23 Aggregate Base; 32 13 13 Joint Sealing; 32 16 13 Curb and Gutter; 32 17 26 Tactile Warning Surface; 32 31 00 Fences (post sleeves); 32 93 00 Planting.

1.2 REFERENCES

A. ACI 117 (Tolerances), ACI 301 (Specifications for Structural Concrete), ACI 302.1 (Slabs on Ground), ACI 305 (Hot Weather), ACI 306 (Cold Weather), ACI 318 (Reinforced Concrete), ACI 330 (Parking Lots), ACI 360 (Slabs on Ground), ACI 308 (Curing).
B. ASTM C31 (Field Cylinders), C33 (Aggregates), C94 (Ready Mixed Concrete), C143 (Slump), C150/C595 (Cement), C172 (Sampling), C173/C231 (Air Content), C260 (AEI), C494 (Admixtures), C618 (Fly Ash), C1017 (HRWR), C309 (Curing), D1751 (Premixed Expansion (Fiber), D594/D690 (Not Poured Sealants), C920 (Cold Applied Sealants), A1064 (WWR), A615/A706 (Rebar).

1.3 SUBMITTALS

A. **Mix Design** For each class of concrete, stamped by producer's QC: Fc, w/cm, air content, slump, cementitious content, admixtures, aggregate gradations.
C. **Jointing Plan** Show contraction/section joints, spacing, dowels/tie bars, and construction joints; include ADA ramp joints.
D. **Curing/Sealer Data** Product sheets and application rates.
E. **Materials Certificates** Aggregates, reinforcement, vapor retarder (if used), dowel baskets.
F. **Test Reports** Trial batches (if required).
G. **Maintenance Instructions** warranty.

1.4 QUALITY ASSURANCE

A. **Pre-Placement Conference** Review subgrade, weather plan, placements, finishing, joints, curing, testing, protection.

B. **Testing Agency** Independent lab for sampling and tests.

C. **Tolerances** As per ACI 117 unless noted.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Ready-mixed concrete per ASTM C94; deliver with batch tickets; discharge within code allowed time.
B. Protect steel and embedded items from contamination and corrosion.

1.6 WARRANTY

A. One-year warranty against spalling, scaling, popouts, and excessive random cracking not associated with subgrade movement or overloading.

PART 2 – PRODUCTS

2.1 CONCRETE MIXES

A. **General** Normal-weight concrete with **entrained air** where freeze-thaw or deicing salts are expected. Use potable water and non chloride admixtures.
B. **Exposure Classes and Properties** Use: Sidewalks/Plazas – 350psi Accessible Ramps/Curbs/Structural Surfaces – 400psi

C. **Cementitious** ASTM C150 Type I/II or C595 blended; supplementary cementitious materials optional (fly ash Class F/C, slag) total replacement **<= 30%** unless otherwise qualified.
D. **Aggregates** ASTM C33, nominal max size **3/4" (No. 57/67)**; adjust for section thickness.
E. **Admixtures** ASTM C494 water reducing, mid/high range (HRWR), retarder; air entraining per ASTM C260. **No calcium chloride**.

2.2 SUBGRADE AND ACCESSORIES

A. **Aggregate Base** 3/4" minus crushed base; compacted thickness per Schedule (Part 3); use nonwoven geotextile separator** over weak subgrade as shown.
B. **Reinforcement (as scheduled)**:

1. WWR **≈6-6" = W2.9/W2.9** (typical pedestrian); support on chairs.
2. Rebar **≈4 @ 18" O.C. each way** (vehicular or where noted).
C. **Dowels/Ties** Smooth round steel **1/2" × 12 @ 12" O.C.** in transverse contraction joints.
D. Pavement joints: Self leveling silicone (ASTM D5893) or hot poured (ASTM D6690).
3. Sidewalk/plaza: ASTM C920, **≈5% air** or **≈4% grade** per detail.
F. **Curing** Water cure per ACI 308 or **ASTM C309** water based curing compound, 300 sf/gal (min), compatible with future sealers.
G. **Sealer (optional)** Slow/drydown breathable sealer for de icing exposure.

2.3 FORMS, JOINT HARDWARE, AND ACCESSORIES

A. Forms: Steel or wood, true to line and grade.
B. Dowel baskets or chairs; plastic caps; keyways where detailed.
C. Reinforcement supports: Plastic or galvanized chairs; continuous high chairs at WWR laps.

PART 3 – EXECUTION

3.1 EXAMINATION & PREPARATION

A. Verify subgrade is uniform, **proof-rolled**¹, free of pumping/soft spots; moisture-condition and compact to:

1. **Sidewalks/Plazas** **≥90%** of **ASTM D698** (Std Proctor).
B. Establish grades to drain: **min 1.5%** slope; **ADA cross-slope <= 2.0%** on accessible routes.
C. Install sleeves, conduits, boxes prior to placement.

3.2 BASE COURSE

A. Place aggregate base in **<= 4" compacted lifts** to thickness in Schedule; compact to **≥95% Mod. Proctor**.
B. Place geotextile where indicated; extend to back of curbs/edges.

3.3 FORMING & REINFORCEMENT

A. Set forms to true line/grade; apply form release.
B. Place reinforcement mid depth (1/2 × **1/3 slab depth from top** for WWR unless noted); support on chairs – **do not drag**.
C. Provide dowels/ties at joints per Joining Plan.

3.4 PLACING, FINISHING, JOINTING

A. **Weather Controls** Follow ACI 305/306. Cool subgrade, sun shade, fog spray, or wind breaks as required.
B. Deposit concrete near final position; consolidate to eliminate voids; **do not overwork** surface.
C. Screed and bullfloat; enter steel trowel** for exterior paving.
D. Finish: Medium "broom finish" perpendicular to path of travel; edges tooled 1/4" radius unless noted.
E. **Contraction Joints** Saw-cut **1/4" slab depth**; Use early-entry saw **2-6 hr** after set (or conventional saw within 6-12 hr

BRICK UNIT PAVING - 321416

PART 1 – GENERAL

1.1 SUMMARY

A. Provide labor, materials, and equipment for **clay brick unit paving**¹, including subgrade prep, geotextile, aggregate base, bedding joint sand, edge restraints, brick pavers, and (where indicated) mortar/tin set over concrete slab.

B. Related Sections: 31 20 00 Earth Moving; 32 11 23 Aggregate Base Courses; 32 13 13 Site Cast in Place Concrete (rigid base); 32 16 13 Curb and Gutter; 32 17 26 Detectable Warning Surfacing; 32 31 00 Fences (and protection at edges and utility covers).

1.2 REFERENCES

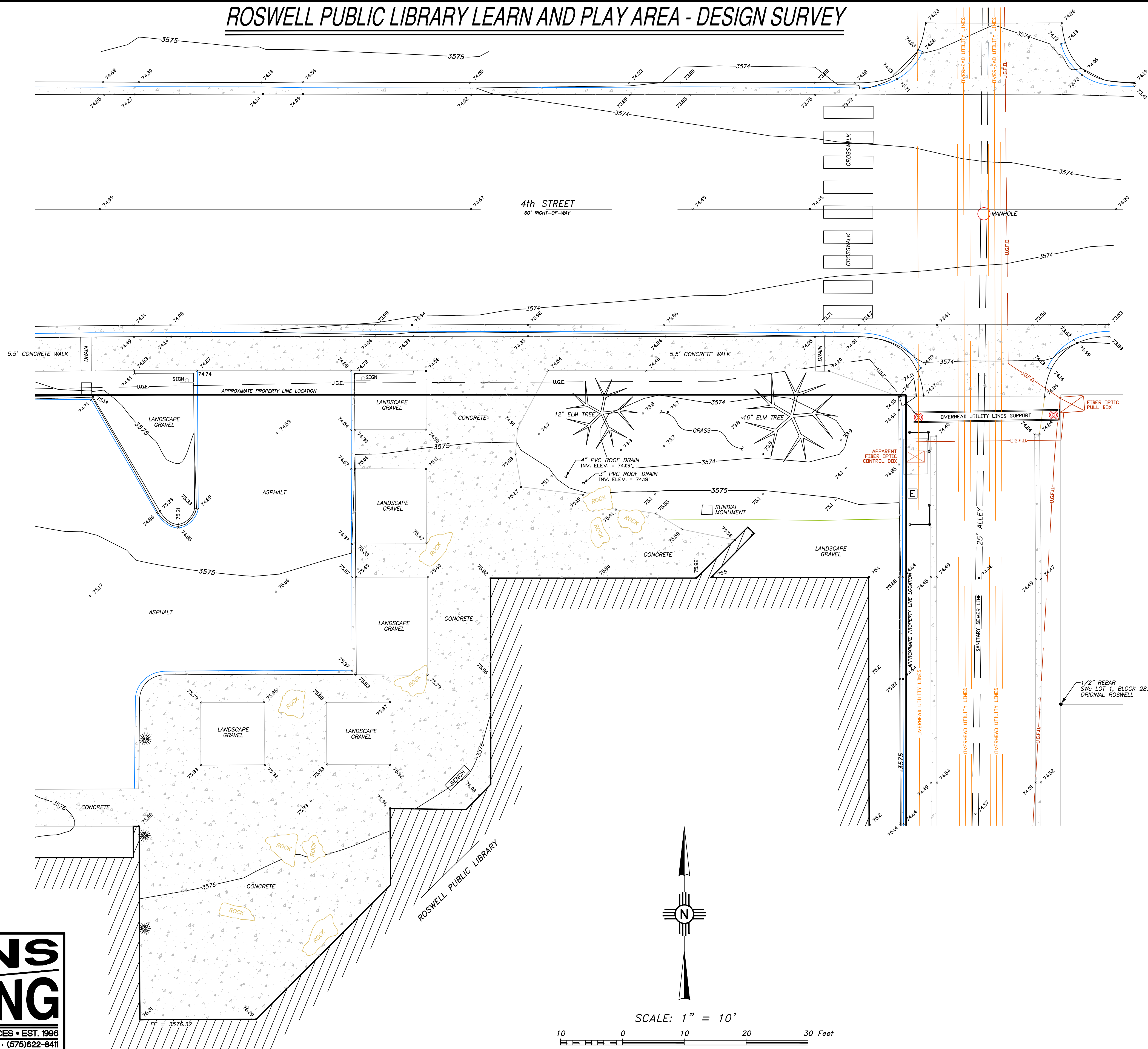
A. **ASTM C902** – Pedestrian and Light Traffic Clay Paving Brick (use where traffic is pedestrian or low speed light vehicles).
B. **ASTM F1931** – Accessibility of Surface Systems (Wheelchair Work Measurement).
C. **ASTM C1222** – Heavy Vehicular Paving Brick (use where regular vehicular loading occurs).
D. **ASTM D67** – Sampling and Testing Brick and Structural Clay Tile.
E. **ASTM C33** – Concrete Aggregates (bedding sand).
F. **ASTM C144** – Masonry Mortar Sand (joint sand, if specified).
G. **ASTM M 147** – Materials for Aggregate and Soil/Aggregate Base and Surface Courses.
H. **ASTM M 288** – Geotextile Specification for Highway Applications (Separation).
I. **MMSI A1154/A11815** – Latest-modified tin set mortar (if using tin set over slab).
J. **ADA/ABA Standards (2010)** – Accessible Routes surface and slope criteria.
K. **MBA Technical Notes 14 Series** – Brick paving design and construction (informational).

1.3 SUBMITTALS

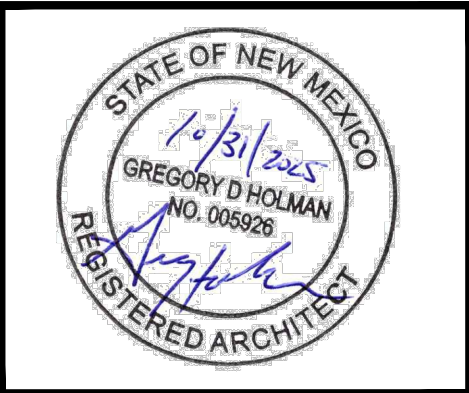
A. Product Data: Brick paver units, dimensions, strength class, freeze-thaw class; bedding and joint sand; edge restraints; geotextile; sealers (if used).
B. Sieve Analysis: Current gradation reports for bedding and joint sands.
C. Samples: (3) brick units from each color/range; one quart of bedding/joint sand.
D. Shop Drawings: Layout pattern, bond lines, coursing, joint widths, slopes, grade transitions, and edge details; indicate vehicular areas and herringbone orientation.
E. Mock Up: Minimum 25 sf including a border/edge and one drain/utility transition; demonstrate compaction and joint fill.
F. Warranty: Installer's workmanship warranty; manufacturer's color fastness (where offered).

1.4 QUALITY ASSURANCE

ROSWELL PUBLIC LIBRARY LEARN AND PLAY AREA - DESIGN SURVEY



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Roswell, NM 88201
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STRUCTURAL ENGINEER

CIVIL ENGINEER
INTERIOR DESIGNER

PROJECT NAME:
ROSWELL PUBLIC LIBRARY
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301 N. PENNSYLVANIA AVE.
ROSWELL, NM 88201

NO.	DATE	DESCRIPTION
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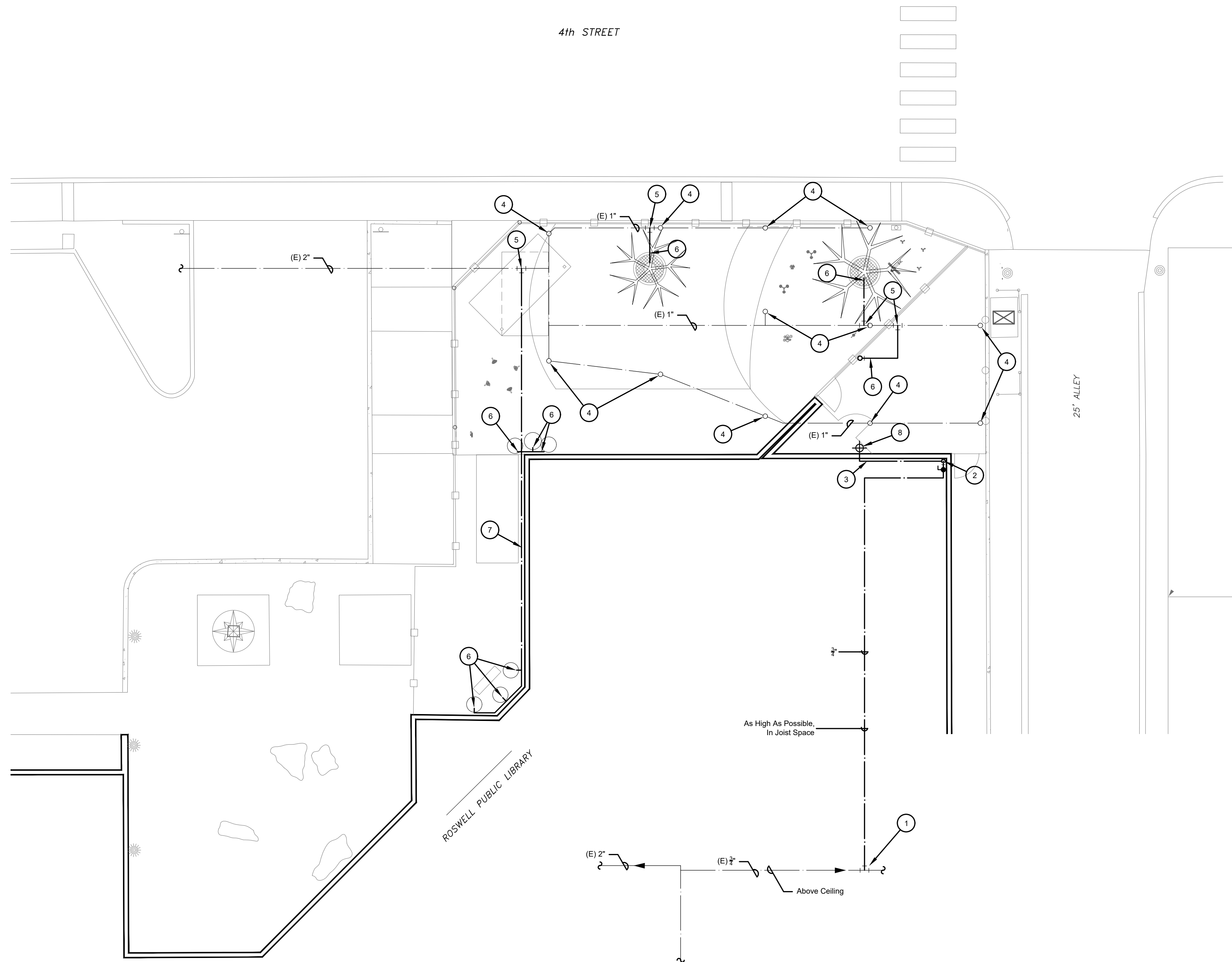
DATE: 10.31.2025

SHEET NAME:
SITE
PLAN

SHEET NUMBER:
C1.0

RAINS
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P.O. BOX 1474 • ROSWELL • NEW MEXICO • (575)622-8411

EXISTING SITE PLAN
NOT TO SCALE



SITEPLAN - PLUMBING

1" = 10'-0"



NORTH

GENERAL NOTES:

- ALL PLUMBING INSTALLATIONS SHALL COMPLY WITH THE NEW MEXICO PLUMBING CODE, NFPA 90, AND ALL LOCAL, STATE, AND FEDERAL ORDINANCES, CODES, LAWS, AND REGULATIONS.
- CONTRACTOR TO VERIFY LOCATION AND SIZE OF ALL EXISTING EQUIPMENT AND UTILITIES.
- ALL ABOVE GROUND DOMESTIC WATER PIPING SHALL BE TYPE L HARD DRAWN COPPER WITH BRASS SOLDER FITTINGS.
- OUTDOOR IRRIGATION SYSTEM PIPING SHALL BE SCHEDULE 40 PVC.

KEYED NOTES:

- CONNECT NEW DCW LINE TO EXISTING, ABOVE THE CEILING, AT THIS APPROXIMATE LOCATION.
- DROP NEW DCW LINE DOWN IN THE CORNER.
- ROUTE NEW WATER LINE LOW ON WALL, BEHIND THE BOOK SHELVES, TO NEW EXTERIOR WALL HYDRANT.
- REMOVE LAWN SPRINKLER AT THIS APPROXIMATE LOCATION. CAP WATER LINE, BELOW GRADE. ALL SPRINKLERS IN THE RENOVATED AREA MAY NOT NECESSARILY BE SHOWN. CONTRACTOR SHALL IDENTIFY ALL SPRINKLER LOCATIONS IN THE RENOVATED PORTION AND REMOVE AND CAP LINE BELOW GRADE.
- CONNECT NEW 1/2" PVC IRRIGATION LINE TO EXISTING, BELOW GRADE, AT THIS APPROXIMATE LOCATION.
- EXTEND NEW 1/2" IRRIGATION LINE TO NEW BUBBLER AT THIS APPROXIMATE LOCATION.
- REMOVE SEALANT AT BASE OF THE WALL TO ALLOW FOR CONCEALMENT OF NEW IRRIGATION PIPING, BETWEEN SLAB AND BASE OF WALL. PROVIDE NEW SEALANT, AS DIRECTED BY THE ARCHITECT.
- PROVIDE AND INSTALL A FREEZE PROOF WALL HYDRANT EQUAL TO A WOODFORD B67, BACKFLOW PROTECTED WITH A RECESSED BOX. PROVIDE LOOSE "T" KEY.



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STRUCTURAL ENGINEER

CIVIL ENGINEER

INTERIOR DESIGNER

PROJECT NAME:
**ROSWELL PUBLIC LIBRARY
CHILDREN'S GARDEN**
301N PENNSYLVANIA AVE,
ROSWELL, NM 88201

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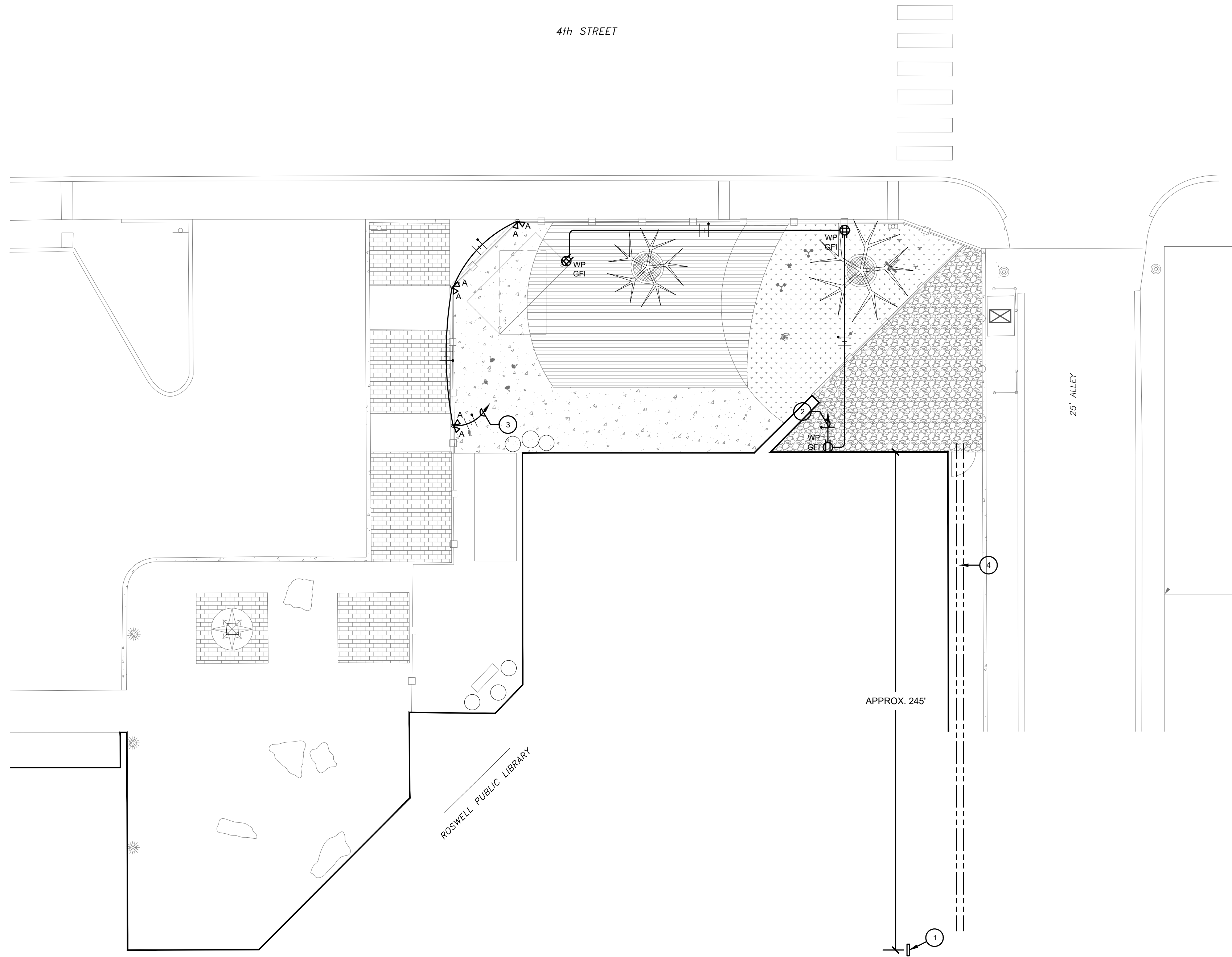
DATE: 10.31.2025

SHEET NAME:

PLUMBING SITE PLAN

SHEET NUMBER:

P101



SITE PLAN - ELECTRICAL

1" = 10'-0"

NORTH

LIGHTING FIXTURE SCHEDULE - ROSWELL LIBRARY CHILDREN'S GARDEN							
TYPE	VOLTS	MOUNTING	MANUFACTURER	CATALOG NUMBER	LAMPS	INPUT WATTS	NOTES
A	120	SURFACE	LUMASCAPE	LS9122-33D-840-84-WF-09-AH-XX-006	LED	33 W	1
LIGHTING FIXTURE NOTES: 1. MOUNT FIXTURE ON OUTDOOR SHADE STRUCTURE AS DIRECTED BY ARCHITECT.							

GENERAL NOTES:

- A. CONTRACTOR SHALL VERIFY EXISTING LOCATION OF ALL UTILITIES AT JOBSITE PRIOR TO ANY BORING / TRENCHING, ETC.
- B. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS BEFORE BIDDING TO DETERMINE THE TOTAL SCOPE OF WORK REQUIRED AND INCLUDE ALL IN BID.
- C. IT IS ASSUMED THAT ANY OUTLET, SWITCH, RECEPTACLE, FIXTURE OR PANEL MAY BE RELOCATED WITHIN A TEN (10) FOOT RADIUS OF THE INDICATED LOCATION WITHOUT ADDITIONAL CHARGE TO THE OWNER.

KEYED NOTES:

- 1 EXISTING PANEL "A" (208V) TO REMAIN.
- 2 2 #6 & #10 GR. IN 1" CONDUIT TO A NEW 20A-1P CIRCUIT BREAKER IN EXISTING PANEL "A". INSTALL NEW CIRCUIT BREAKER IN AVAILABLE SPACE. ROUTE UNDERGROUND CONDUIT ADJACENT TO ALLEY AND 'LB' INTO ELECTRICAL ROOM AS REQUIRED..
- 3 2 #6 & #10 GR. IN 1" CONDUIT ONTO EXISTING EXTERIOR LIGHTING CIRCUIT IN THIS AREA.
- 4 UNDERGROUND CONDUIT ROUTING THIS AREA AS REQUIRED FOR ELECTRICAL CIRCUIT CONNECTIONS TO EXISTING PANEL "A".

Space Planning
Architecture
Interior Design
Construction Management

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NO.	DATE	DESCRIPTION
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DATE: 10.31.2025

SHEET NAME:
ELECTRICAL SITE PLAN

SHEET NUMBER:
ES101

DIVISION 16 - ELECTRICAL

SECTION 16A - GENERAL:

1. The work shall include furnishing and installing all electrical work, including final connections to all devices and placing them in service. All work shall conform to local, state, and national codes as interpreted by the authorities having jurisdiction. All materials shall be UL labeled and listed.
2. Comply with requirements of the 2020 National Electrical Code and the City of Roswell codes and ordinances in the construction and installation of all work.
3. All major electrical service equipment specified herein shall be Square D or equal. This includes panelboards, disconnect switches and circuit breakers. Obtain Owner's approval for substitutions.
4. All equipment shall be installed in a location and manner that shall allow for convenient access for maintenance and inspection. Access doors and panels in walls and ceilings shall be provided as required for concealed equipment, controls and boxes.
5. Make all payments for fees, permits and deposits for electrical work. Coordinate with local electrical utility to provide all equipment and pay all costs required to extend underground service from power company facilities to building including meter bases and conduit for meter conductors, CT meter cabinets, and other equipment deemed necessary by the utility company. Contractor shall be responsible for all coordination with the power company.
6. The owner or architect for this project must take the responsibility to submit these drawings to all state and local authorities for required plan reviews. Plans must be submitted for review no later than 5 days after the date appearing on the professional seals.

SECTION 16B - MATERIALS:

16B.1 CONDUITS

- 1.1 Rigid Steel Conduit: Rigid, threaded, thick-walled: galvanized inside and outside or galvanized outside with a protective coating inside: UL listed and labeled according to Standard UL6; conforming to ANSI Standard C80.1; Pittsburgh, Republic Steel, Robroy or Allied.
- 1.2 Electrical Metallic Tubing (EMT): Steel tubing, galvanized outside and provided with a slick corrosion resistant interior coating; UL listed and labeled according to Standard 797; conforming to ANSI Standard C80.3; Pittsburg, Republic Steel, Robroy or Allied.
- 1.3 Flexible Metal Conduit: Spirally wound with hot dip galvanized steel strips (commercial Greenfield); conforming to UL Standard UL1 and UL listed and labeled; Triangle Conduit and Cable Company, or equivalent.
- 1.4 Liquidtight Flexible Metal Conduit; Spirally wound, galvanized steel strips, as for flexible metal conduit; with polyvinyl chloride cover extruded over the exterior to make conduit liquidtight; UL listed, Electri-flex type "LA" or equivalent.

16B.2 CONDUIT FITTINGS

- 2.1 Couplings and Terminations for Rigid Steel conduit: Factory made steel threaded couplings; bushing at all boxes and cabinets, with locknuts inside and outside box or cabinet.
- 2.2 Couplings and Terminations for Electrical Metallic Tubing: Join lengths of EMT with steel, compression type couplings and connectors where possible. Otherwise use set-screw fittings. Provide nylon insulated throat, steel connectors at box and cabinet terminations.
- 2.3 Couplings and Terminations for Flexible Metal Conduit: T&B 440 Series couplings at connections between flexible and rigid conduit; T&B 3110 or 3130 Series nylon insulated throat, steel connectors at box or cabinet terminations.

16B.3 OUTLET BOXES

- 3.1 Sheet Steel Boxes: Sheet steel not lighter than No. 14 gauge, galvanized after fabrication: Raco, Steel City or Appleton.
- 3.2 Cast Metal Boxes: Cast iron or Cast alloy with threaded hubs: Crouse-Hinds, Appleton or Pyle National.
- 3.3 Non-Metallic Boxes: NEMA OS 1

16B.4 PULL BOXES AND JUNCTION BOXES

- 4.1 Sheet steel, galvanized inside and outside, with galvanized covers.
- 4.2 Small boxes: For boxes where the volume required is not over 100 cubic inches, use standard outlet boxes.
- 4.3 Larger Boxes: For boxes where the volume required is over 100 cubic inches, use cabinets as specified for panelboard cabinets with covers of same gauge as boxes, secured with corrosion resistant bolts or screws.

16B.5 CONDUCTORS (600 VOLTS AND UNDER)

- 5.1 Type: Soft drawn, annealed copper, UL listed, rated at 600 volts, Okonite, Triange, Anaconda or Simplex No. 8 and larger shall be stranded; No. 10 and smaller may be solid.
- 5.2 Insulation: Branch circuits shall have type THHN insulation for exterior installations. Service feeders shall be type THHN or THWN in conduit. Feeder circuits shall be Type THHN in Conduit.
- 5.3 Type MC Cable copper cable (600 volt copper THHN/THWN conductors) with internal grounding conductor. Interlocked aluminum armor, UL Listed, Southwire Armortite or equal. Use as light fixture whips only.

16B.6 JOINTS AND SPLICES

- 6.1 Stranded Copper Conductors: UL approved solderless bolted pressure connectors or Thomas and Betts Series 54000 compression connectors. All connectors shall be properly sized to match conductor sizes. All compression connectors shall be applied with properly sized dies and tools.
- 6.2 Solid Copper Conductors: UL approved solderless bolted pressure connectors: or UL approved electrical spring connectors of "Scotchlok", Ideal or T&B "Piggy" make.

SECTION 16C - COLOR CODING:

1. Phase conductors shall be black, red and blue for phases A, B & C respectively in the 208Y/120 volt system and brown, orange and yellow in the 480/277 volt system.
2. Neutral conductors shall be white. Grounding conductors shall be green.
3. Switch legs shall be black with white, red with white or blue with white depending on phase.
4. All wiring No. 8 and larger shall be black and be marked with color banding tape as specified. All phase conductors, neutral and equipment ground conductors shall be marked with colored tape. Apply marking at each termination and every four feet of wiring in raceways.

SECTION 16D - WIRING DEVICES:

(ALL COLORS SHALL BE SELECTED BY ARCHITECT)

16D.1 WALL SWITCHES

DEVICE	CATALOG NO.
1.1 Single Pole Wall Switch	Pass & Seymour 20AC1
1.2 Three-way Wall Switch	Pass & Seymour 20AC3

16D.2 RECEPTACLES

- 2.1 Receptacle, 20 Ampere, 125 Volt, 2 Pole, 3 Wire Grounding Duplex: Pass & Seymour No. 5362 (NEMA 5-20R).
- 2.2 Receptacle, 20 Ampere, 125 Volt, 2 Pole, 3 Wire Grounding Duplex with Self-Contained Ground Fault Circuit Interrupter: Pass & Seymour No. 2091.
- 2.3 Receptacle with isolated ground: Pass & Seymour No. IG6300.
- 2.4 Tamper Proof Receptacle: Pass & Seymour No. TR63.

16D.3 COVERPLATES

- 3.1 Pass & Seymour smooth finish non-breakable thermoplastic wall plates shall be used except in unfinished or machinery spaces, where plates shall be galvanized steel if surface mounted. All switches controlling motorized equipment shall have engraved nameplates. Verify all wall plate colors with Architect.

SECTION 16E - PANELBOARDS:

16E.1 MATERIALS

1. Panelboard Cabinets: Furnish and install cabinets to serve the various panelboards, of sizes as required to house the panelboards. Cabinets shall be rigidly constructed of sheet steel of gauges conforming to Underwriters' Laboratories Inc. requirements; corners over-lapped or welded; edges turned over to receive trim.
2. Cabinet Fronts: Cut from single sheet of not less than No. 12 gauge cold-rolled sheet steel, fastened in place by adjustable trim clamps which will allow plumbing; same size as the cabinet box if surface mounted; size to overlap the box a minimum of 3/4" on all sides if flush mounted. Provide each door with a substantial flush, cylinder tumbler lock and catch. On doors more than 48" high provide a combination three point catch and lock with T-handle. Provide each lock with two keys, with all locks keyed alike.
3. Finish: All back boxes galvanized; all exposed metal, including fronts, primed and finished in gray lacquer.
4. Where a circuit protective device is scheduled as a "spare", provide the device complete for operation. Where such a device is scheduled as a "space" or "space only", provide proper space and all necessary connectors for future installation of the size of device scheduled. Where a breaker or switch is scheduled to serve a "future" load, provide the device complete for operation.
5. All circuit breakers shall be quick make, quick break, trip free, thermal magnetic, indicating type unless noted otherwise. Branch circuit breakers shall be fully interchangeable without disturbing adjacent units.
6. Connect all circuit interrupting devices with sequence phasing.
7. Provide each panelboard with a neatly typewritten directory of circuits mounted in a cardholder on the inside of the panelboard cabinet. Cover directory with transparent sheet plastic.
8. All panelboards shall be listed by Underwriters' Laboratories Inc.
9. Provide each panelboard with a factory engraved nameplate which shall identify the panelboard name.
10. Bussing: All panel board bussing shall be copper.

16E.2 LIGHTING AND APPLIANCE PANELBOARDS:

1. Panelboards shall have the number and size of bolted-in circuit breakers as scheduled. Panels shall be Square D, type NF or NQOD with bolt-on breakers as required for the interrupting ratings schedules or equivalent.

SECTION 16F - INTERIOR LIGHTING FIXTURES:

16F.1 MATERIALS

1. Provide and install a lighting fixture on each and every lighting outlet shown. Furnish fixtures in accordance with the designations on the drawings and as specified herein. All features specified or scheduled for fixtures shall be provided, even if the catalog number given in the specifications or schedule lacks the required numerals, prefixes or suffixes corresponding to the features called for.
2. All lighting fixtures shall bear the label Underwriters' Laboratories Inc.
3. Provide electronic drivers and LED Lamping for all fixtures.
4. Fixtures shall comply with ANSI 132.1.

16F.2 DRIVERS

1. LED drivers shall have a minimum power factor of 85% and total harmonic distortion not to exceed 10%.

SECTION 16G - DISCONNECT SWITCHES:

1. Disconnecting switches shall be manufactured by Square D. Switches shall be heavy duty, enclosed type, rated for 250 volts. Switches used as service switches shall bear a UL service entrance label and nameplate shall so indicate.
2. All HVAC equipment shall be provided with disconnects per NEC 2020.

SECTION 16H - EXECUTION:

16H.1 INSTALLATION OF BUILDING RACEWAYS

- 1.1 Types: Above grade interior conduits shall be electrical metallic tubing. Conduits installed below grade in slabs or buried in earth shall be PVC or rigid galvanized steel. Ent is not allowed.
- 1.2 Connections: Use lengths of flexible metal conduit, not less than 12" long at final connections to all motors, controls and other devices subject to movement because of vibration or mechanical adjustment.

16H.2 CONDUIT SUPPORTS

- 2.1 Support Spacing: Use minimum spacing as directed by National Electrical Code, but space hangers more closely where required by conditions.
- 2.2 Individual Conduits: Support conduits running vertically or horizontally with galvanized malleable iron one-hole clamps. Carry individual supported horizontally conduits 1-1/4" and larger on Kindorf No. 150 or Steel City No.C-149 hangers. Use no perforated strap iron as hanger material. Where conduits smaller than 1-1/4" are installed above non-removable type ceilings, they may be supported on ceiling runner channels.
- 2.3 Multiple Conduits: Where multiple raceways are run horizontally at the same elevations, they may be supported on trapezes formed of sections of Unistrut angle iron or channels suspended on rods or pipes. Size trapeze members including the suspension rods for the number size and loaded weight of the conduits they are to support. Space them as required for the smallest conduit supported.

16H.3 INSTALLATION OF OUTLET BOXES

- 3.1 Usage: provide at each outlet or device of whatever character a metal outlet box in which conduits shall terminate.
- 3.2 Boxes Recessed in Construction: Cast metal boxes.
- 3.3 For Wall Switches, Receptacles and Communications Use: Use 4"x4" size with proper square comered tile wall cover, plaster cover, or finishing plate, except where construction will not permit or the device requires a larger box.
- 3.4 Boxes for Exposed Work: Cast metal boxes.
- 3.5 Boxes for Outdoors: Cast metal boxes with gasketed covers.

16H.4 WIRE PULLING

- 4.1 Wire Pulling: Provide suitable installation equipment for pulling conductors into raceways or conduits. Use ropes of polyethylene, nylon or other suitable material to pull in conductors. Attach pulling lines to conductors by means of woven basket grips or by pulling eyes attached directly to conductors. All conductors to be installed in a single conduit shall be pulled in together.
- 4.2 Cable Lubricants: All cable lubricants shall be UL listed, and shall be certified by their manufacturer to be non-injurious to the insulation on which they are used.

16H.5 INSTALLATION OF BUILDING WIRE (600 VOLTS AND UNDER)

- 5.1 Feeders: Run all feeders their entire length in continuous pieces without joints or splices, insofar as practical.
- 5.2 Sizes: No wire shall be smaller than No. 12 except for signal or control circuits, and except for individual lighting fixture taps as permitted by the National Electrical Code.
- 5.3 Identifying Tags: Non-ferrous; stamped to clearly identify each circuit. Securely fasten tags to all cables, feeders and power circuits in pull boxes, lighting, power and distribution panelboards, etc.
- 5.4 Bundling Conductors: Bundle all conductors in panelboards, cabinets and the like, using marlin twine lacing or nylon straps made for the purpose. Bundle conductors larger than No. 10 in individual circuits. Bundle smaller conductors in larger groups.

16H.6 MOUNTING HEIGHTS

- 6.1 Where mounting heights are indicated on the drawings, the device shall be installed with the centerline of the device at the indicated height.
- 6.2 In general, devices which are shown to be installed at counters or other millwork, unless noted. Wall switches shall be installed on the strike side of the door as finally hung.
- 6.3 Unless otherwise noted on the drawings, or directed by the Owner, install devices at the following heights.

DEVICE	MOUNTING HEIGHT
Wall Switch	48"
Receptacle	18"
Telephone & Data Outlet	18"

- 6.4 Observe all ADA requirements when mounting devices in areas designated as "handicap" or "accessible".

SECTION 16I - SERVICE CONNECTIONS:

1. Verify power company service requirements for this project prior to bid. Include all charges by Power Company in original bid.

SECTION 16J - LOAD BALANCING:

1. The contractor shall carefully balance his electrical loads between the various phases. When the facilities are under use at their heaviest loading periods, tests shall be run on the "hot" conductors in each feeder to a panel and any unbalance shall be corrected to a point that no conductor's load shall be more than 10% high or low (maximum unbalance of 20%) in amperes.

SECTION 16K - SERVICE AND EQUIPMENT GROUNDING:

1. Provide adequate and permanent service neutral and equipment grounding in accordance with the National Electrical Code, and subject to the following additional requirements.
2. Connect the service ground and equipment ground to a common point within the metallic enclosure containing the main service disconnecting means. From the common point of connection of the service ground and equipment ground, run in conduit a combined service and equipment grounding conductor without joint of splice to the main water service pipe and connect it thereto with an approved bolted pressure clamp. Clean all contact surfaces thoroughly before connection, to assure good metal to metal contact. Bond the conduit to the grounding conductor at each end. Supplement the water pipe ground with an additional electrode which shall be 10' long by 3/4 inch diameter copperclad steelground rod. Attach the electrode to the water pipe and to the service/equipment grounding conductor.
3. Size grounding conductors in accordance with National Electrical Code Section 250.
4. The building structure steel frame shall be grounded to the building service ground electrode, using the conductor size specified in National Electrical Code Section 250.

SECTION 16L - GROUNDING RACEWAYS:

1. Assure the electrical continuity at all metallic raceway systems, pulling up all conduits and/or locknuts wrench tight. Where the flexible metallic conduit is employed, provide a green-insulated grounding jumper installed in the flexible conduit. Install a separate green-insulated conductor in each non-metallic conduit.
2. Provide grounding bushings on all service raceways terminating within panelboards, cabinets, and all other enclosures. Provide grounding conductors from such bushings to the frame of the enclosure and to the ground bus or equipment grounding strap. Size grounding conductors in accordance with NEC Section 250.

SECTION 16M - EQUIPMENT GROUNDING CONDUCTORS:

1. Provide a separate, green-insulated copper grounding conductor, with insulation of the same rating as phase conductors, for each feeder and for each branch circuit installed. Install the grounding conductor in the same raceway with the related phase and neutral conductors, and connect the grounding conductor to pull boxes at intervals of 100 feet or less, to each raceway. Connect all grounding conductors to bare grounding bars in panelboards, and to ground buses in service equipment to the end that there will be an uninterrupted grounding circuit from the point of a ground fault back to the point of connection of the equipment ground and system neutral. Size all these grounding conductors per NEC Section 250.

SECTION 16N - EQUIPMENT WIRING:

1. Connect complete for operation all items of heating and air conditioning, refrigeration, kitchen equipment, washers, dryers, modular furniture and all other electrical devices furnished by the Owner or under other Divisions of the specifications. Outlets of various types have been indicated at equipment locations, but no indications of exact location or scope of the work are shown on the drawings. Refer to the Owner and to the various Contractors for the work under the other Divisions for the scope of connections to equipment furnished by them and for the exact locations of all items.
2. Where disconnect switches or circuit breakers are not provided integral with control equipment for motors and other electrical appurtenances, provide and install all disconnect switches required by the National Electrical Code and/or as indicated.

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STRUCTURAL ENGINEER

CIVIL ENGINEER

INTERIOR DESIGNER

PROJECT NAME:
ROS WELL PUBLIC LIBRARY
CHILDREN'S GARDEN
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ROSWELL, NM 88201

NO.	DATE	DESCRIPTION
01	-	-

DATE: 10.31.2025

SHEET NAME:
ELECTRICAL
SPECIFICATIONS

SHEET NUMBER:
ES201