ADDENDUM NO. 6

LOXAHATCHEE RIVER DISTRICT

Science Center at Jupiter Inlet Lighthouse Outstanding Area

PROJECT NO. ITB # 22-009-00119

TO ALL BIDDERS AND OTHERS CONCERNED:

Contractors submitting proposals for the above referenced project shall take note of the clarification to the Contract and Specifications that shall become a part of the contract documents.

BID DOCUMENTS (Due January 10, 2023)

Note: Bidder must acknowledge Receipt of Addendum on Proposal- Article 2, Page 17 of the Contract Documents.

Dated this 3rd day of January 2023

Loxahatchee River District

Kris Dean, P.E.

PLEASE ACKNOWLEDGE RECEIPT OF ADDENDUM NO. 6 (PAGE 1 – PAGE 41) BY SIGNING BELOW – EMAIL to KRIS.DEAN@LRECD.ORG IMMEDIATELY.

_____
Signature

_____
Title

_____
Company

Bid Documents will be received by Loxahatchee River District via DemandStar until 2:00 P.M. on Tuesday, January 10, 2023.

Bidders are reminded to acknowledge Addendum No. 1 on Article - 2

A. NOTE TO BIDDERS:

Bidders are encouraged to competitively price the bid alternates. Award will be based on the lowest base bid, but execution of the contract will be determined based on the combination of base bid and alternates that best suit LRD's needs for the project and budget.

Additionally, irrigation sleeves, including caps, under hard surfaces are to be included in the base bid in the civil site work and not in the irrigation bid alternate item.

B. BIDDERS QUESTIONS AND ANSWERS:

Q1 - The bid bond form for ITB #22-009-00119, Science Center at Jupiter Inlet Lighthouse Outstanding Natural Area doesn't have a signature line for the Surety. Could you assist?
A1 - Surety does not execute Article 3. They typically execute the standard bid bond required in Article 3, Paragraph 2.

Q2 - Are proposers allowed to submit their Health, Safety and Environmental Performance "manual" at a later date if they are the lowest responsive bidder and after award of the contract?
A2 - Per the bidding documents it is a bid submittal requirement. LRD is not inclined to revise the bidding requirement.

Q3 - As per plan E1.01 note 1, the plan calls for a Siemens Level 2 car charge. The car charger circuit is not noted on any of the panel schedules to confirm which panel it is to be fed from and this sheet does not describe the size of the conduit and wire which due to voltage drop could be required to be upsized. Please confirm.
A3 - Refer to revised electrical sheets issued with Addendum #6.

Q4 - As per plan E2.20, the plan shows EF-2 circuit is not noted on any of the panel schedules to confirm which panel it is to be fed from. The size of the motor is provided on the mechanical plans. Please confirm panel.
A4 - Refer to revised electrical sheets issued with Addendum #6.

Q5 - Addendum 3 – states the shed information is noted on SP-2. Please confirm SP-2 is included with the bid set.
A5 - Refer to revised electrical sheets issued with Addendum #6.

Q6 - As per Addendum 3 and plan SP-1, the location is provided and noted it is prewired. It's feed is not noted on any of the panel schedules to confirm which panel it is to be fed from and this sheet does not describe the size of the conduit and wire which due to voltage drop could be required to be upsized. Please confirm.
A6 - Refer to revised electrical sheets issued with Addendum #6.

Q7 - The buildings eave and fascia are damaged and should be repaired but the architectural plans do not call for them to be repaired. Please confirm if repairs are part of the project scope
A7 - On both buildings, existing eave and fascia shall be repaired with in-kind materials to a like new condition full perimeter. See revised sheets A3.10 and A3.11.

Q8 - Architect to confirm if new gutters need to be installed at each house.
A8 - New gutters and downspouts are to be provided only where noted on plans at the edge of the existing roof where it passes below the new porch roof on both buildings.

Q9 - Per the plans, the existing back porch in the Science Classroom is to be converted to an office.

The roof over this area is sloped and will not provide enough head space on the short (east) end. Please confirm that the roof does not need to be raised
Q9 - The existing roof slope shall remain. The reduced head height due to the slope in this limited area is allowed by code in this room.

Q10 - Plan sheets A8.01 & A8.02 indicate AWP-1 and AWP-2 but there are no specifications for these in the bid documents. AWP-2 in the Classroom Bldg has a width dimension of 36” but a height is not given (although it scales to 48”). AWP-1 in the Classroom Building has no dimensions (although they scale to 24” x 48”). Awp-1 in the Science Center is not dimensioned (although they scale to 27” x 54”). Please provide specifications and sizes for the Acoustical Wall Panels?
A10 - AWP-1: AcoustiMAC GMAN422-W 48x24x2 COM Fabric: Guilford of Maine Sand 2658 color: Ivory 021, z clip hardware, square, wrapped edge.
AWP-2: AcoustiMAC GMAN412-W 48x12x2 COM Fabric: Guilford of Maine Sand 2658 color: Ivory 021, z clip hardware, square, wrapped edges (3 panels per locations centered between windows as indicated)

Q11 - Architectural plans sheet A 4.01 calls for the supply and installation of ceiling projector and wall projector screen. The specs given for these items is very limited and cannot be quoted until more info is provided.
Can the architect/ owner please provide the following info about the screens
• Please provide the model number and specs for the screens
• Are the screens to be recessed in the ceilings?
• Please provide the size of the required screen and the image size aspect ratio
• How much back drop is needed?
Please clarify the specs and info on the project Lifts
• Please provide model and specifications and the general requirements for the projector lift?
A11 - Projection screens shall be surface mounted due to structural obstructions above the ceiling. Screen models/sizes/aspect ratio shall be as follows with no backdrop necessary:
PS-1 (classroom) Draper Luma with AR Manual Projection Screen 207111, OptiView Matt White XT1000E Projection Surface, AV Format, 60”x60”, provide operating pole (4’)
https://www.draperinc.com/projectionscreens/productdetail/412/luma-with-ar
PS-2 (science center), Draper Luma with AR Manual Projection Screen 207111, OptiView Matt White XT1000E Projection Surface, AV Format, 60”x60”, provide operating pole (4’)
https://www.draperinc.com/projectionscreens/productdetail/412/luma-with-ar
The projector lifts shall be as follows:
Draper Micro Projector Lift 300198, 110 V, 23 ½ x 23 ½”, Environmental Airspace Housing, Ceiling Closure Panel (white), universal bracket for projector attachment:
https://www.draperinc.com/liftsmounts/productdetail/229/micro-projector-lift

Q12 - What is the depth of the terrazzo 2mm windowsills
A12 - Verify in field +/-5 ½” x length of window scheduled. 2 CM material, not MM

Q13 - On sheet D-1 detail 3 Pervious Pavement Section is says 4,000 psi pervious. There is no ASTM test method for Testing the PSI of pervious. We could probably reach something close to 4,000 PSI by adding more water and consolidating to the point there are no voids.
There are currently no approved test methods from ASTM, ACI, FCPA, ACPA, PCA, or the NRMCA to determine the strength of pervious concrete.
It is generally the Engineering firm that would determine the unit weight of the pervious material and our job to install the material at that unit weight.
Unless you tell me differently, I will bid this in accordance with the latest guidelines from ACI, NRMCA and the FC&PA specifications for Portland Cement Pervious Paving
A13 - Included with this addendum is a revised pervious pavement detail

Q14 - Are the two trees in front of the science classroom to remain?
A14 - The existing Queen Palm and the Black Olive in front of the Science Center are both to be removed as indicated in the Tree Disposition Plan. Revised sheet DM-1 is included with this addendum.
Q15 - Plans do not show electrical layout.
A15 - Approximate location of electrical pad and meter are shown in the PGD Plan as existing.

Q16 - I am bidding on this job and was trying to find out on where we should send our proposal for this job when we are completed. Thank you for any help you can provide me.
A16 - Bids are due via DemandStar (https://network.demandstar.com/) by January 10, 2023 at 2:00 pm local time, per the Notice To Contractors, page 1.

Q17 - Article 1, No. 24 Health, Safety and Environmental Performance submittal criteria:
1. For how many years of would you like proposers to submit with their bid their history of...Total Days Away, Restricted, Transferred (DART) & Total Recordable Incident Rate (TRIR)?
2. Will you please reconsider having the low responsive bidder submitting these documents after bid submission as this and safety manuals is a lot of work.
A17 -1. Bidders should submit their current DART and TRIR.
2. No, all bids must include current DART and TRIR to be considered.

Q18 - meeting minutes note 7b Staging Area you address “Screening” may be required. Is the word screening pertaining to a fenced laydown area green screen or personnel Level 2 badging?
A18 - Screening of site operations with fencing may be required.

Q19 - In addendum 3 response to question 19 regarding the proposed shed the brief information that was put forward is not sufficient to quote a fixed price. You call for a wood floor to support a car, the plan shows a concrete slab, you have no foundation details, inside finish details, engineering, roof details, electric, lighting etc. I would suggest you apply an allowance to this line item as an alternate of $50,000.00 and further detail it post bid award. Kindly advise.
A19 – An allowance of $50,000.00 will be added for the shed and further detail will be provided post bid.

Q20 - Please clarify sheet D-1 detail # 5. What is Crushed Shell Rock? Existing Roadway is stabilized base with 8” of Coquina Rock on top. Roadway should match existing roads on property I would think.
A20 - Proposed crushed stone access drive and parking spaces should match gravel road on site.

Q21 - On the bid alternates form you request pricing for Dumor furnishings. Are we to include in our base bid the specified Anova furnishings?
A21 - Base bid should include the items listed on the Bid Form – Base Bid schedule included with Addendum 5.

Q22 - Architectural Plans sheet AF 2.10 & and sheet A4.02 shows an exit ramp to be constructed at the east side of the Science building. Structural sheet S 2.01 does not show any structural detail for the ramp construction. Please provide structural detail for this exit ramp?
A22 – Access ramp detail has been included with this Addendum on Sheet S-201 and S-302.

Q23 - The road cut through the preserved area has all kinds of trees & vegetation. Pretty thick. Are trees going to be surveyed & marked as to what goes, what’s relocated? Drawings don’t show much. Need better drawings if you can get them.

A23 - No. Additional tree surveys are not being ordered. Sheet TD-1 includes the note "plant material for relocation shall be reviewed and tagged on site with District or District's representative prior to clearing. Native and endemic material selected for relocation shall be tagged and prepped for relocation. Upon relocation, material shall be watered in place until permanent irrigation is operable."

Further, sheet LP-1 includes the note "Native and endemic plant material relocated from bus loop area shall be infilled in this general area. General contractor to perform relocations as reasonably possible." It is understood that the vegetation within the bus loop area is very thick. It is the intent to relocate as much of the native/endemic material as much as reasonably possible, understanding that access to given material will be a challenge.

Q24 - On your bid form Alternates Item A-9 Shade Structure. What shade structure are you referring to?
A24 – Shade structure included in Appendix E of the Technical Specifications.

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CONTRACT DOCUMENTS:

Underline denotes additions to the Contract Documents

~~Strikethrough~~ denotes deletions to the Contract Documents

BIDDING REQUIREMENTS

1-1. Article 2 – Proposal

The base bid schedule was revised to separate out the aluminum trellis, and the bid alternates section was revised to include a wood trellis structure.
The landscape and irrigation items were moved to the alternates section.

1-2. Article 4 – Contract

The base bid schedule was revised to separate out the aluminum trellis, and the bid alternates section was revised to include a wood trellis structure.
The landscape and irrigation items were moved to the alternates section.

1-3. Measurement and Payment 01 02 50

An alternate design for the wood trellis was added to this section.
The landscape and irrigation sections were moved from the base bid to the alternates section.

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BID FORM — BASE BID
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE
OUTSTANDING NATURAL AREA
LUMP SUM PRICES

ITEM	SPEC. SECTION	DESCRIPTION	QNTY	UNIT		UNIT PRICE		EXTENDED PRICE
1	Varies	General Conditions	1	LS	$		$	
2	24000	Demolition	1	LS	$		$	
3	70000	Roofing	1	LS	$		$	
4	80000	Doors and Windows	1	LS	$		$	
5	310000	Earthwork	1	LS	$		$	
6	30000	Structure Concrete	1	LS	$		$	
7	60000	Carpentry	1	LS	$		$	
8	322000	Site Concrete	1	LS	$		$	
~~9~~	~~328400~~	~~Irrigation~~	~~1~~	~~LS~~	~~$~~		~~$~~	
~~10~~	~~329000~~	~~Landscaping~~	~~1~~	~~LS~~	~~$~~		~~$~~	
9~~11~~	**Plans**	**Site Furnishing**						
9.1	Plans	Bench – Infinity, Recycled Plastic #1690	1	EA	$		$	
9.2	Plans	Bench – Infinity, Curved, Recycled Plastic #12120	2	EA	$		$	
9.3	Plans	Bench – Infinity, Recycled Plastic 2'X6' Linear	5	EA	$		$	
9.4	Plans	Picnic Tables – Beacon Hill 4 Flat Seats	2	EA	$		$	
9.5	Plans	Trash Receptacle – Beacon Hill 45G	3	EA	$		$	
9.6	Plans	Bike Rack – Uline	1	EA	$		$	
9.7	Plans	Water Fountain #10154, Front Approach, Surface Mount Color: Pyrite	2	EA	$		$	
10~~12~~	90000	Finishes	1	LS	$		$	
11~~13~~	220000	Plumbing	1	LS	$		$	
12~~14~~	230000	Mechanical	1	LS	$		$	
13~~15~~	260000	Electrical	1	LS	$		$	
14~~16~~	270500	Communications	1	LS	$		$	
15~~17~~	281600	Intrusion Detection Raceway System	1	LS	$		$	
16~~18~~	Varies	Other Site Features	1	LS	$		$	
17	Plans	Aluminum Trellis	1	LS	$		$	

CONSTRUCTION COST (BASE BID) **$** _____

TOTAL BASE BID, ITEMS 1-18 (in words) _____
Dollars

_____
Cents

PROPOSAL Article 2

BID FORM —BID ALTERNATES
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE
OUTSTANDING NATURAL AREA
LUMP SUM AND UNIT PRICES

ITEM	SPEC. SECTION	DESCRIPTION	QNTY	UNIT	-	UNIT PRICE	-	EXTENDED PRICE
		Artificial Lawn						
A-1	329000	St. Augustine Sod (to Replace Synthetic Turf)	1	LS	$	-	$	-
A-2	322000	Ribbon curb around artificial lawn deduct	1	LS	$	-	$	-
		Site Furnishing Alternates						
A-3	N/A	Dumor WR521 Wall Mount Curved Bench	3	EA	$	-	$	-
A-4	N/A	Anova Plank Adirondack Chair	5	EA	$	-	$	-
A-5	N/A	Dumor 521-60PL Bench	5	EA	$	-	$	-
A-6	N/A	Dumor 296-42-40TX Picnic Table	2	EA	$	-	$	-
A-7	N/A	Dumor 187-32-PL-FTO Trash Receptacle	3	EA	$	-	$	-
A-8	N/A	Dumor 291-00/S-2 Powder Coated Bike Rack	3	EA	$	-	$	-
		Landscape Breakout				-		-
A-9	Varies	General Conditions	1	LS	$		$	
A-10	24000	Demolition	1	LS	$		$	
A-11	328400	Irrigation	1	LS	$		$	
A-12	329000	Landscaping	1	LS	$		$	
		Miscellaneous						
A-13	N/A	Shade Structure	1	LS	$	-	$	-
A-14	Plans	Wood Trellis	1	LS	$			

PROPOSAL Article 2

BID FORM — BASE BID
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE
OUTSTANDING NATURAL AREA
LUMP SUM PRICES

ITEM	SPEC. SECTION	DESCRIPTION	QNTY	UNIT		UNIT PRICE		EXTENDED PRICE
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14~~16~~	270500	Communications	1	LS	$		$	
15~~17~~	281600	Intrusion Detection Raceway System	1	LS	$		$	
16~~18~~	Varies	Other Site Features	1	LS	$		$	
17	Plans	Aluminum Trellis	1	LS	$		$	

CONSTRUCTION COST (BASE BID) **$** _____

TOTAL BASE BID, ITEMS 1-18 (in words) _____
Dollars

_____
Cents

CONTRACT - Article 4

BID FORM —BID ALTERNATES
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE
OUTSTANDING NATURAL AREA
LUMP SUM AND UNIT PRICES

ITEM	SPEC. SECTION	DESCRIPTION	QNTY	UNIT	-	UNIT PRICE	-	EXTENDED PRICE
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A-6	N/A	Dumor 296-42-40TX Picnic Table	2	EA	$	-	$	-
A-7	N/A	Dumor 187-32-PL-FTO Trash Receptacle	3	EA	$	-	$	-
A-8	N/A	Dumor 291-00/S-2 Powder Coated Bike Rack	3	EA	$	-	$	-
		Landscape Breakout				-		-
A-9	Varies	General Conditions	1	LS	$		$	
A-10	24000	Demolition	1	LS	$		$	
A-11	328400	Irrigation	1	LS	$		$	
A-12	329000	Landscaping	1	LS	$		$	
		Miscellaneous						
A-13	N/A	Shade Structure	1	LS	$	-	$	-
A-14	Plans	Wood Trellis	1	LS	$		$	

CONTRACT - Article 4

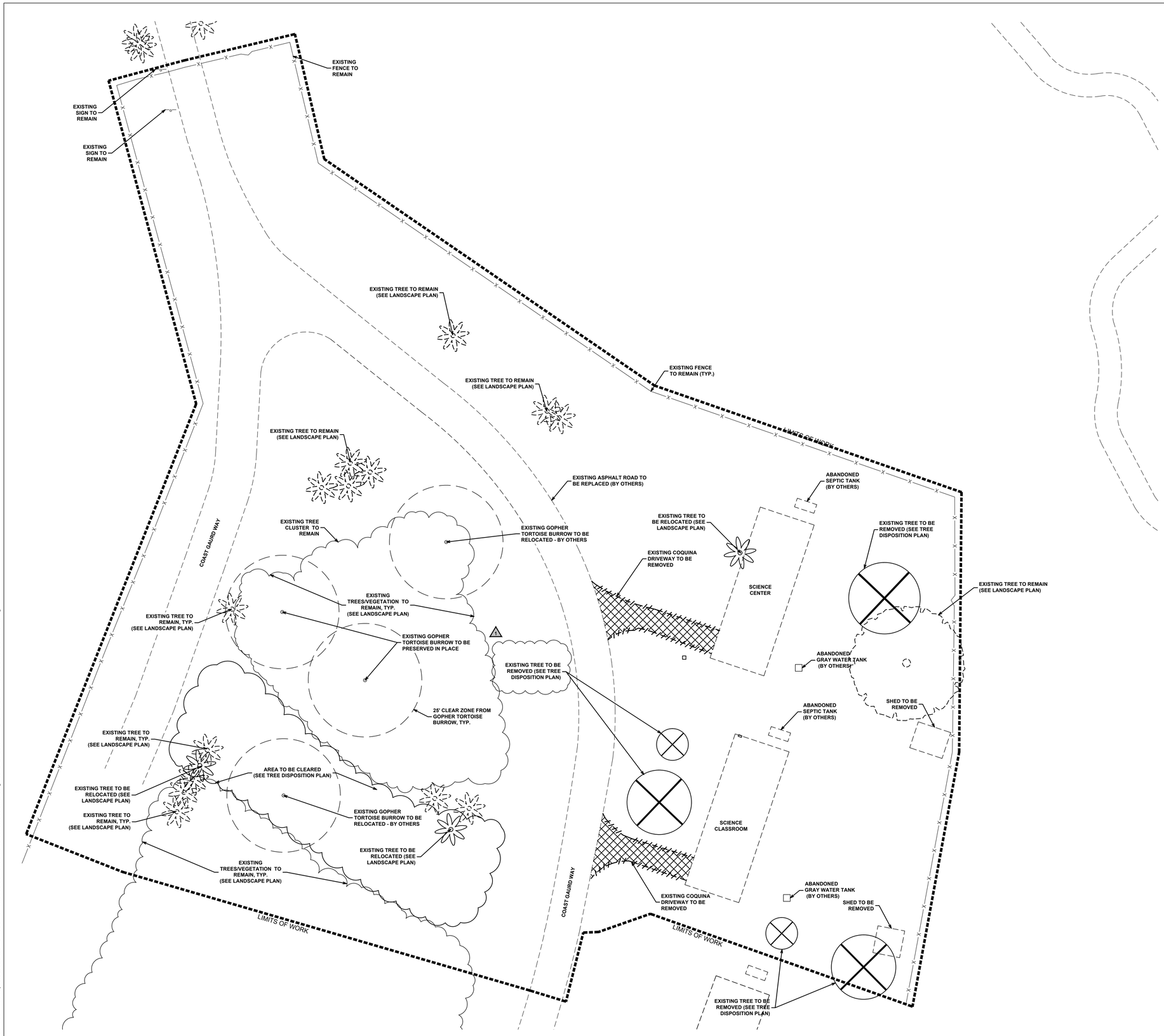
Shade sail shall be 2 sail structure, approximately 800 SF total area covered with two triangular sails, 4 shade posts with approximate footer size of 12'x12'. By manufacturer/supplier noted or approved equal. All structural elements related to the shade sails and footings shall be reviewed and approved by engineer. Color selection of posts and sails to be approved by DISTRICT.

A. Irrigation
Furnish and install per plan including mobilization, general conditions and any other contract required site prep including but not limited to metering, back flow preventer, etc. Item shall be paid on a lump sum basis and includes all associated piping, nozzles, valves, and installation materials including but not limited to gravel, electrical connection materials, etc. as specified in the plan set and specifications.

B. Landscape
Furnish and install per plan including mobilization, general conditions and any other contract required site prep including but not limited to tree removals, tree protection fencing, etc. Item shall be paid on a lump sum basis and includes plant material and installation materials including but not limited to soils, staking materials, mulch, fertilizer, etc. as specified in the plan set and specifications.

C. Wood Trellis
Furnish and install wood trellis and foundation per structural and architectural plans. Item will be paid on a lump sum basis and includes materials not limited to wood trellis, supports, fasteners, excavation, dewatering, backfill, compaction, concrete, and reinforcement per design plans.

END OF SECTION 01 02 50



N

GRAPHIC SCALE

0 10 20 40

1 INCH = 20 FEET

LEGEND

- AFFECTED AREA BOUNDARY
- REMOVE MATERIAL FROM AREA
- REMOVE ITEM

DEMOLITION NOTES:

1. DO NOT START DEMOLITION WORK UNTIL UTILITY DISCONNECTING AND SEALING HAVE BEEN COMPLETED AND VERIFIED IN WRITING.
2. BEFORE PROCEEDING WITH DEMOLITION OPERATIONS THE CONTRACTOR IS TO DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES, OR OTHER DANGEROUS MATERIALS.
3. CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.
4. DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR IN-USE FACILITIES WITHOUT PERMISSION FROM DISTRICT, AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS AS REQUIRED BY GOVERNING REGULATIONS.
5. CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES TO REMAIN. ENSURE SAFE PASSAGE OF PEOPLE AROUND DEMOLITION AREA.
6. ERECT TEMPORARY PROTECTION, SUCH AS WALKS, FENCES, BARRIERS, RAILINGS, ETC. WHERE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
7. CONTRACTOR IS TO PROTECT ALL EXISTINGING TREES, SIGNS, AND ABOVE GROUND UTILITIES NOT IMPACTED BY THIS PLAN. REFER TO TREE DISPOSITION PLAN.
8. ADJACENT IMPROVEMENTS SHALL BE CLEANED OF DUST, DIRT, AND DEBRIS CAUSED BY DEMOLITION OPERATIONS. RETURN ADJACENT AREAS TO CONDITION EXISTINGING BEFORE START OF DEMOLITION.
9. FOR SELECTIVE DEMOLITION, USE CUTTING METHODS LEAST LIKELY TO DAMAGE CONSTRUCTION TO REMAIN OR ADJOINING CONSTRUCTION. TO MINIMIZE DISTURBANCE OF ADJACENT SURFACES, USE HAND OR SMALL POWER TOOLS DESIGNED FOR SAWING OR GRINDING, NOT HAMMERING OR CHOPPING.
10. DEMOLISH CONCRETE IN SMALL SECTIONS. CUT CONCRETE AT JUNCTURES WITH CONSTRUCTION TO REMAIN, USING POWER-DRIVEN MASONRY SAW OR HAND TOOLS; DO NOT USE POWER-DRIVEN IMPACT TOOLS.
11. INFORMATION SHOWN ON THE DRAWINGS AS TO THE LOCATION OF EXISTINGING UTILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE DATA AVAILABLE TO THE ENGINEER; HOWEVER, THIS INFORMATION IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION, CHARACTER, AND DEPTH OF ALL EXISTINGING UTILITIES. THE CONTRACTOR SHALL ASSIST THE UTILITY COMPANIES, BY EVERY MEANS POSSIBLE, TO DETERMINE SAID LOCATIONS AND THE LOCATIONS OF RECENT ADDITIONS TO THE SYSTEMS NOT SHOWN.
12. REMOVAL, DEMOLITION, HAULING, AND DISPOSAL SHALL COMPLY WITH REGULATIONS BY F.D.E.P., E.P.A., AND ANY OTHER AUTHORITY HAVING JURISDICTION.
13. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
14. GOPHER TORTOISE BURROWS SHOWN HEREIN RECORDED AS OF FEBRUARY 2022. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, IT IS RECOMMENDED THAT THE PRESENCE OF GOPHER TORTOISES BE REEVALUATED. ANY NECESSARY ACTIVITY IN THE RELOCATION OF TORTOISES SHALL OCCUR IN AN APPROPRIATE TIMELINE IN ADVANCE OF THE COMMENCEMENT OF CONSTRUCTION.

BID DOCUMENTS

cma
chen moore and associates
500 Australian Avenue South
Suite 850
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

REGISTRATION

SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
N21002

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS
1 2022-12-22 ADDENDUM #6

DATE OF ISSUE
10/04/22

DESIGNED BY
SD

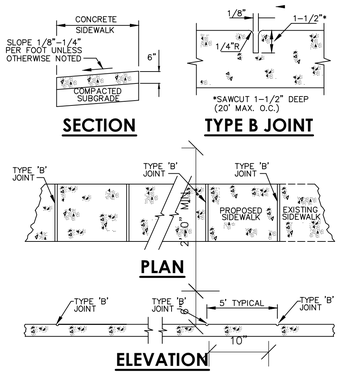
DRAWN BY
DM

CHECKED BY
SH

DRAWING TITLE
DEMOLITION PLAN

DRAWING NUMBER
DM-1

Plot Date: 12/19/2022 11:37:28 AM Username: dmartinat Layout Name: DM-1
Folder Path: V:\Projects\2021\21-494.001 - blm house demolition and construction\Design\CAD\Sheets Filename: 21-494.001 Demolition Plan.dwg

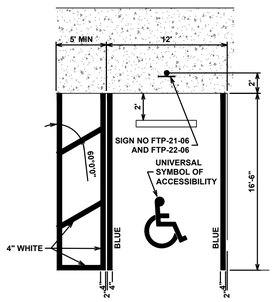


NOTES:

1. SIDEWALK SHALL BE 4" THICK TYPICAL, 6" AT DRIVEWAY LOCATIONS.
2. SUBGRADE BELOW SIDEWALK SHALL BE COMPACTED TO 98% OF MAX. DENSITY PER A.A.S.H.T.O. T-180.
3. CONCRETE STRENGTH SHALL BE MIN. 3000 PSI @ 28 DAYS.
4. SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE "AMERICAN WITH DISABILITY ACT:, LATEST REVISION.
5. CURE ALL CONCRETE WITH CLEAN SAND, PLASTIC MEMBRANE, OR OTHER APPROVED METHOD.
6. SEE HARDSCAPE DETAILS FOR SURFACE FINISH.

1 CONCRETE SIDEWALK DETAILS

N.T.S.

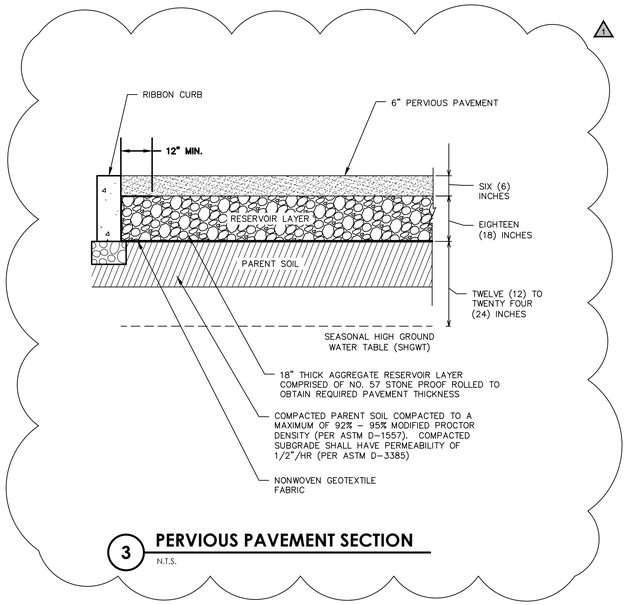


ACCESSIBLE
(WITH WHEEL STOP)

NOTE:
1. BLUE PAVEMENT MARKINGS SHALL BE TINTED TO MATCH SHADE 15180 OF FEDERAL STANDARDS 595A.
2. THE FTP-22-06 PANEL SHALL BE MOUNTED BELOW THE FTP-21-06 SIGN.

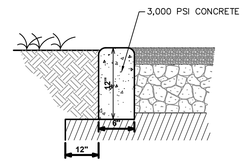
2 ADA PARKING SPACE PAVEMENT MARKING & SIGNAGE

N.T.S.



3 PERVIOUS PAVEMENT SECTION

N.T.S.

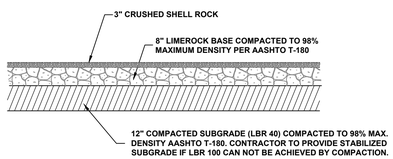


NOTES:

1. ALL CURBS TO BE CONSTRUCTED OF 28 DAY, 3,500 P.S.I. CONCRETE.
2. 1/2" PRE-MOLDED EXPANSION JOINT REQUIRED EVERY 500', CONSTRUCTION JOINT REQUIRED EVERY 10' MAXIMUM (4' MINIMUM).
3. SUB-BASE TO BE COMPACTED AND TESTED TO 98% MINIMUM DENSITY WITH MINIMUM L.B.R. 40 BASED ON AASHTO T-180 MODIFIED PROCTOR TEST.
4. EXPANSION JOINT MATERIAL MUST COVER THE ENTIRE CROSS SECTION OF CURB.

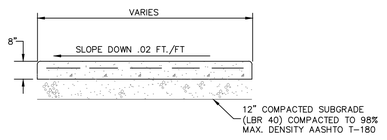
4 RIBBON CURB

N.T.S.



5 SHELL ROCK DRIVEWAY SECTION

N.T.S.

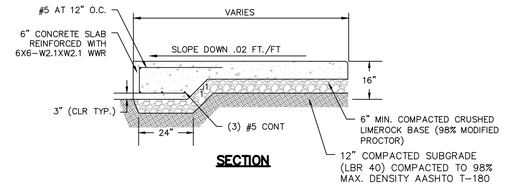


NOTES

1. CONCRETE TO BE CLASS 1, 3,000 PSI IN 28 DAYS.
2. USE OF FIBER REINFORCED CONCRETE IS PROHIBITED.
3. SIDEWALK SLOPES SHALL MEET THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT.
4. INCLUDES ANY CUT AND/OR FILL TO ACHIEVE DESIGN SLOPES.
5. PROVIDE 1/8" CONSTRUCTION JOINTS AT 5' c.c., MINIMUM DEPTH 1/2".
6. PROVIDE 1/2" EXPANSION JOINTS W/ NON-RISING FILLER AT 30'c.c.
7. CURE ALL CONCRETE WITH CLEAN SAND, PLASTIC MEMBRANE, OR OTHER APPROVED METHOD.
8. PROVIDE 6"X6"-W4XW4 W.W.F.

6 CONCRETE SLAB

N.T.S.



NOTES

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4. INCLUDES ANY CUT AND/OR FILL TO ACHIEVE DESIGN SLOPES.
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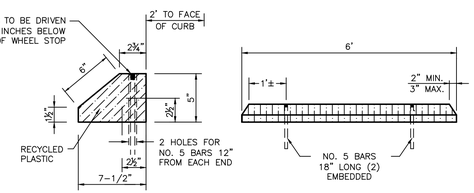
6. PROVIDE 1/2" EXPANSION JOINTS W/ NON-RISING FILLER AT 30'c.c.
7. CURE ALL CONCRETE WITH CLEAN SAND, PLASTIC MEMBRANE, OR OTHER APPROVED METHOD.

7 CONCRETE SLAB WITH THICKENED EDGE

N.T.S.



8 RECYCLED PLASTIC WHEEL STOP

N.T.S.

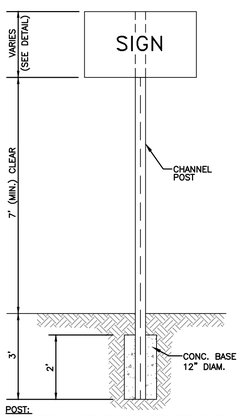
NO CONTRACTORS BEYOND THIS POINT

R5-11

30" X 24"

9 TEMPORARY CONSTRUCTION SIGN

N.T.S.

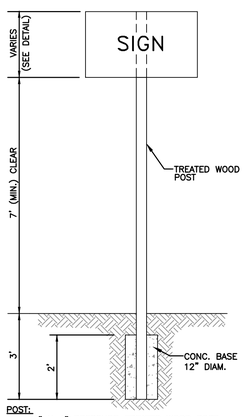


POST:
STEEL FLANGED CHANNEL POST WITH BAKED GREEN ALKYD FINISH PER A.S.T.M.-A-123 WITHOUT ANCHOR PLATES. POST TO CONFORM WITH CURRENT FDOT STANDARDS FOR SINGLE COLUMN GROUND SIGNS.

CONC. BASE:
TYPE I CONCRETE, 3000 P.S.I. (MIN.)

10 TEMPORARY SIGN POST

N.T.S.



POST:
4" X 4" PRESSURE-TREATED WOOD POST WITH NATURAL FINISH PER BLM NATIONAL SIGN HANDBOOK H-9130-1. POST TO CONFORM WITH CURRENT FDOT STANDARDS FOR SINGLE COLUMN GROUND SIGNS.

CONC. BASE:
TYPE I CONCRETE, 3000 P.S.I. (MIN.)

11 PERMANENT SIGN POST

N.T.S.

BID DOCUMENTS

cma
chen moore and associates
500 Australian Avenue South
Suite 850
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com

REGISTRATION

SUZANNE M. DOMBROWSKI, PE
REGISTRATION NO. 69918
DATE: _____

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
N21002

VERIFY SCALES
0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS
1 2022-12-22 ADDENDUM #6

DATE OF ISSUE
10/04/22

DESIGNED BY
SD

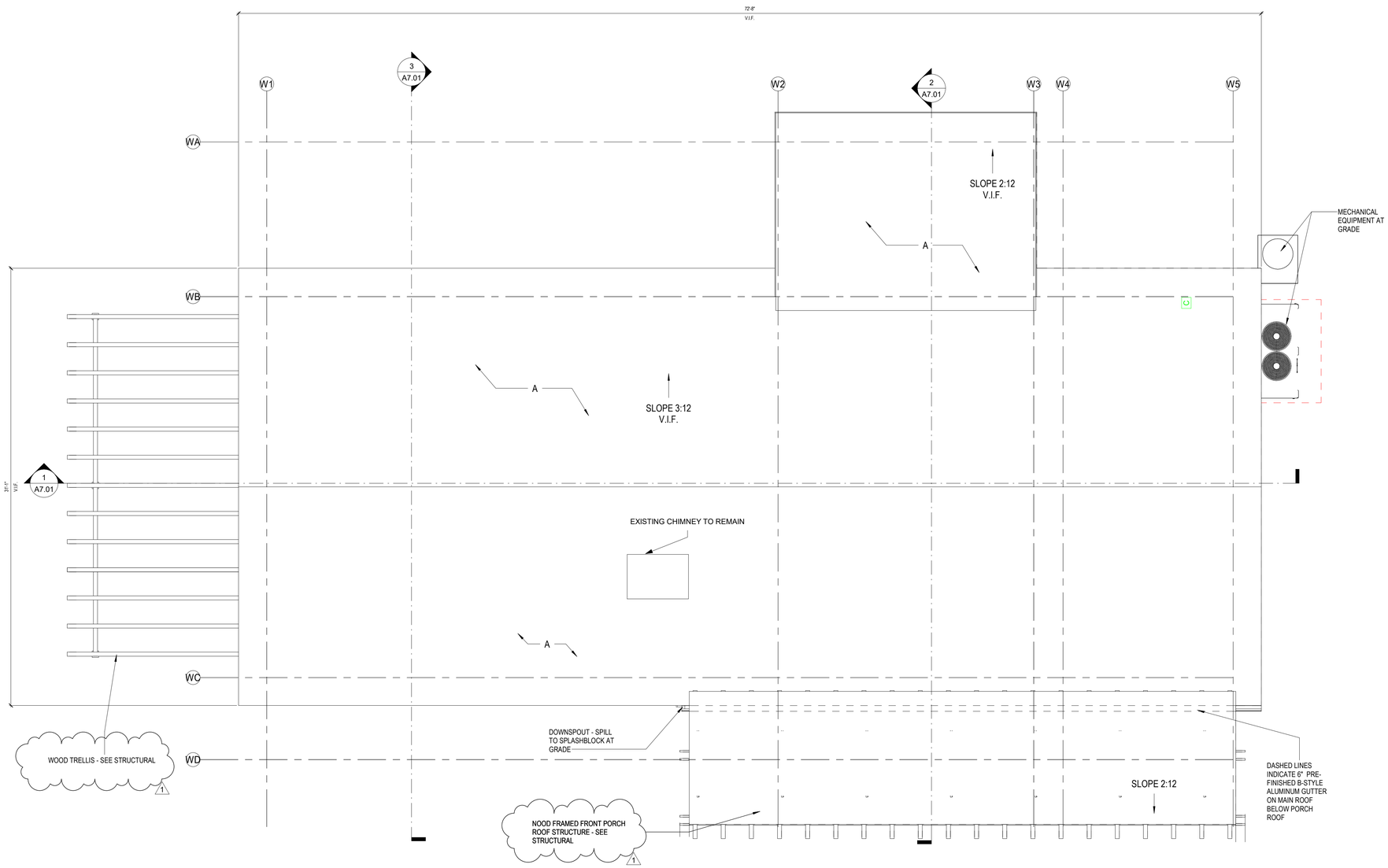
DRAWN BY
DM

CHECKED BY
SH

DRAWING TITLE
CIVIL DETAILS

DRAWING NUMBER
D-1

Plot Date: 12/19/2022 11:20:51 AM Username: dmartinat Layout Name: D-1
Folder Path: V:\Projects\2021\21-494.001 - BLM House Demolition and Construction\Design\CAD\Sheets Filename: 21-494.001 details.dwg



ROOF LEVEL - SCIENCE CENTER 1/4" = 1'-0" (1)

ROOF LEGEND

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION BEFORE EXECUTION OF WORK.
3. DO NOT SCALE DIMENSIONS FROM DRAWINGS, ANY UNKNOWN DIMENSION SHALL BE OBTAINED FROM DESIGN PROFESSIONALS VIA REQUEST FOR INFORMATION (RFI).
4. MINIMUM ROOF SLOPE 2" IN 12".

GRAPHICS LEGEND

INDICATED SLOPE DOWN.
ARROW HEAD INDICATES DIRECTION OF WATER FLOW

KEYNOTE LEGEND

A. REMOVE EXISTING ASPHALT SHINGLE ROOF DOWN TO DECK. REPAIR ANY DAMAGED EXISTING DECK. RE-ROOF WITH DIMENSIONAL ASPHALT SHINGLE ROOF SYSTEM

ROOFING SYSTEM:
BASIS OF DESIGN: GAF TIMBERLINE HDZ "OYSTER GRAY"
FLORIDA PRODUCT APPROVAL 39780.1
MIAMI DADE NOA 19-0312.04
INSTALLATION SHALL COMPLY WITH ROOFING APPLICATION STANDARD RAS 115 STANDARD PROCEDURES FOR ASPHALT SHINGLE INSTALLATION

SUB-CONSULTANT

PGAL

791 PARK OF COMMERCE BLVD.
SUITE 400
BOCA RATON, FL 33487
[T] 561 988 4002
LIC. NO. AA003337
www.pgal.com

PGAL PROJECT NUMBER
1005744

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www.chenmoore.com

REGISTRATION

SAMUEL J. FERRERI, AIA
REGISTRATION NO. AR10011

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

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REVISIONS

No.	DATE	DESCRIPTION
1	2022-12-22	ADDENDUM #6

DATE OF ISSUE
10/05/2022

DESIGNED BY
SF/DW

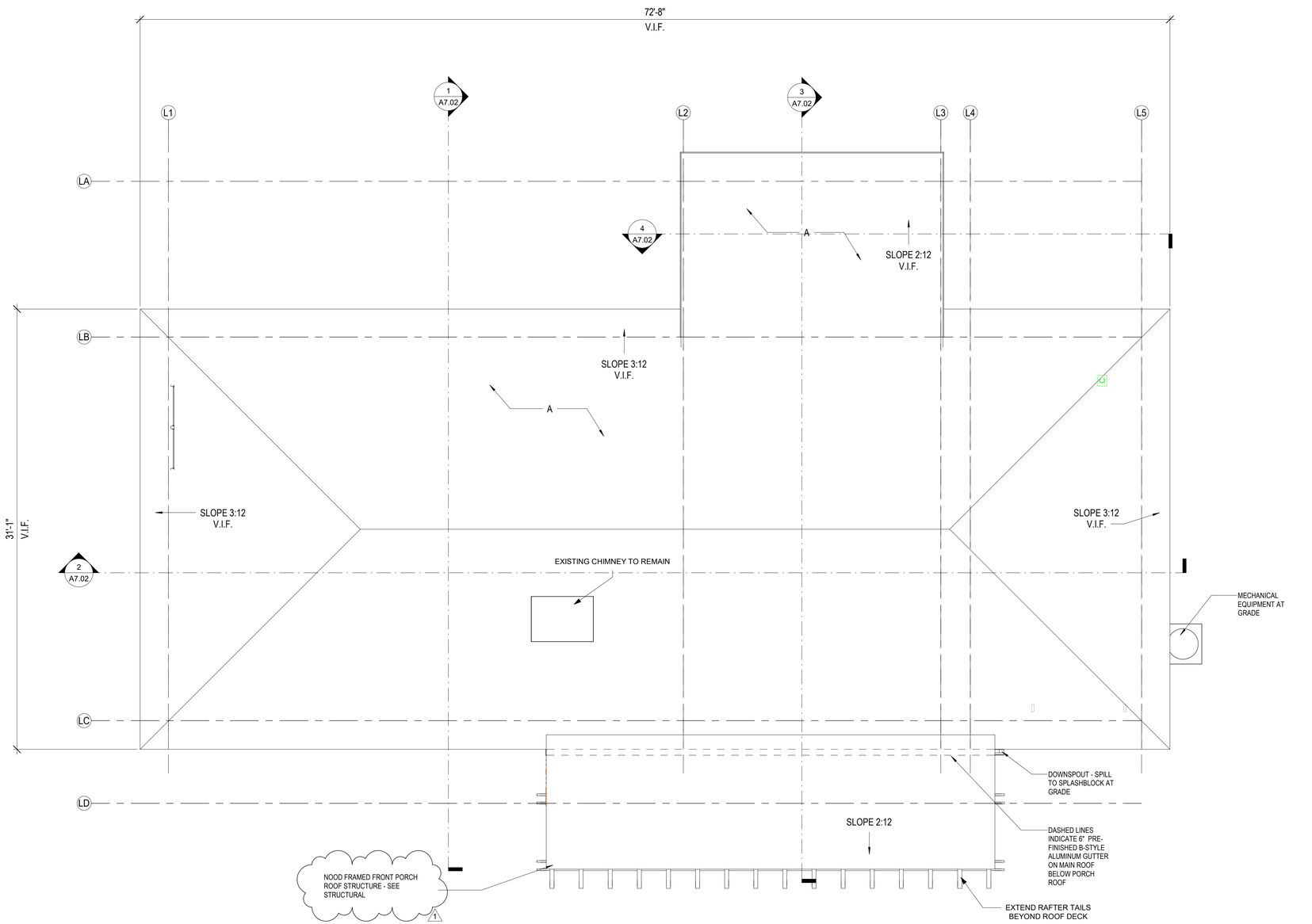
DRAWN BY
IR/DW

CHECKED BY
DW

DRAWING TITLE

ROOF PLAN - SCIENCE CENTER

DRAWING NUMBER
A2.20



ROOF LEVEL - SCIENCE CLASSROOM

1/4" = 1'-0" (1)

ROOF LEGEND

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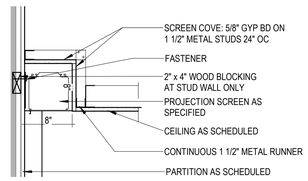
DRAWN BY
IR/DW

CHECKED BY
DW

DRAWING TITLE

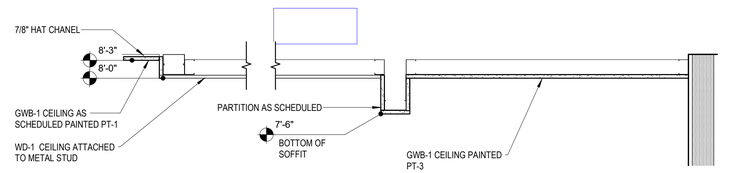
ROOF PLAN - SCIENCE CLASSROOM

DRAWING NUMBER
A2.21



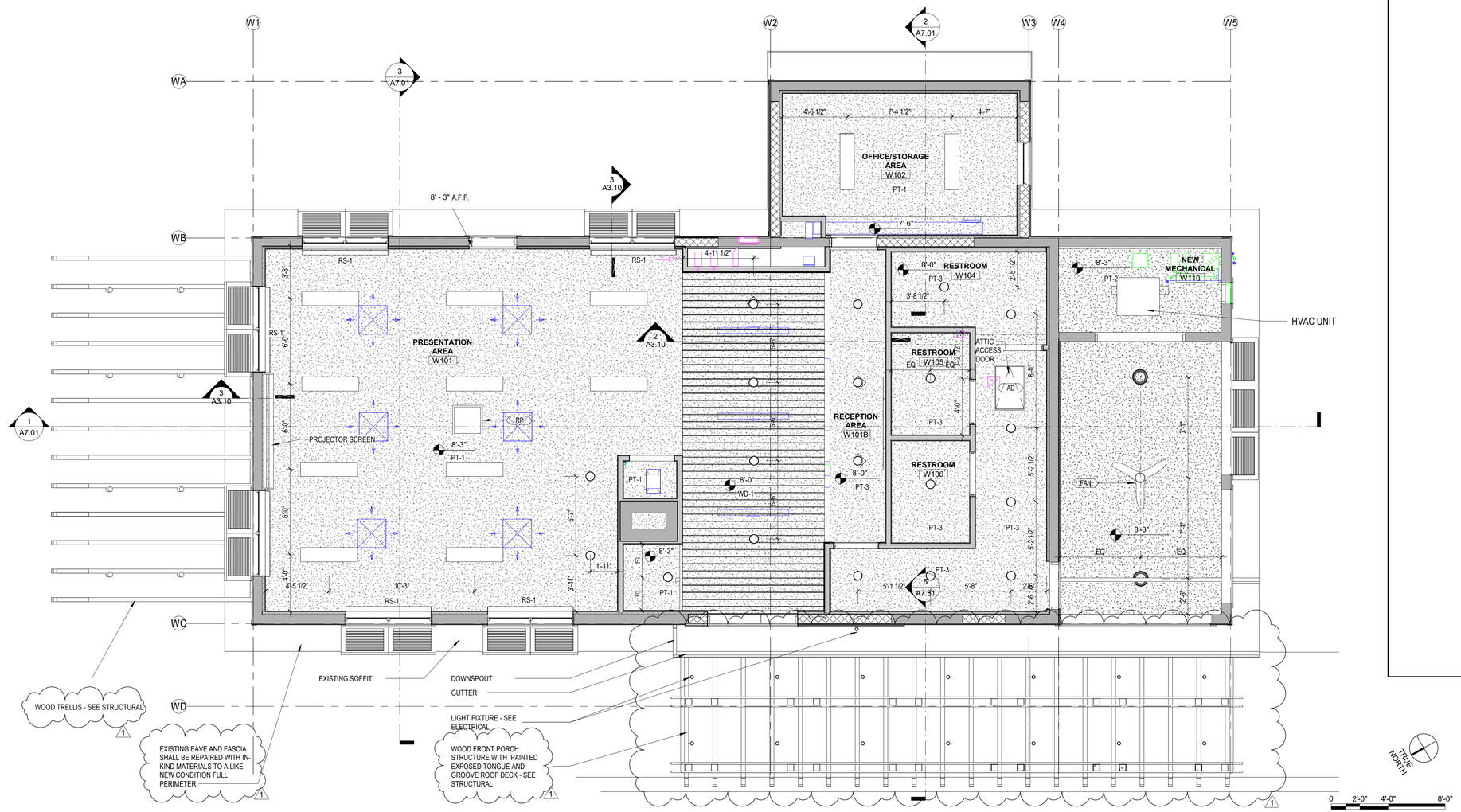
0 6" 1'-0" 2'-0"

PROJECTION SCREEN POCKET DETAIL 1" = 1'-0" (3)



0 6" 1'-0" 2'-0"

CEILING DETAIL 1" = 1'-0" (2)



0 2'-0" 4'-0" 8'-0"

SCIENCE CENTER REFLECTED CEILING PLAN 1/4" = 1'-0" (1)

GENERAL RCP NOTES

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3. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFO. PRIOR TO EXECUTION OF THE WORK.
4. REFER TO PARTITION INFORMATION FOR ADDITIONAL INFORMATION.
5. ALL SHAFTS PENETRATING SLABS SHALL BE RATED 2HR.
6. LIGHT FIXTURES ARE DIMENSIONED TO CENTERLINE OF FIXTURE, OR PROVIDE THE "CL" (CENTERLINE) SYMBOL, AND / OR LINE TYPE ON THE DIMENSION STRING AT EACH FIXTURE.
7. REFER TO ELECTRICAL DRWGS FOR FIXTURE DESIGNATIONS AND TYPES.
8. FIXTURES SHALL BE CENTERED BETWEEN WALLS U.N.O.
9. CEILING GRIDS SHALL BE CENTERED IN ROOMS U.N.O.
10. REFER TO SHEET A4.01 FOR EQUIPMENT SCHEDULE

RCP GRAPHIC LEGEND

GWB-1 — PAINTED, (1) LAYER 5/8" GWB CEILING ON EXISTING FURRING

WD-1 — SHIP LAP PLANK PAINTED TO MATCH PT-1

SUB-CONSULTANT

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REGISTRATION

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REGISTRATION NO. AR10011

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
N21002

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1	2022-12-22	ADDENDUM #6

DATE OF ISSUE
10/05/2022

DESIGNED BY
BJF/DF

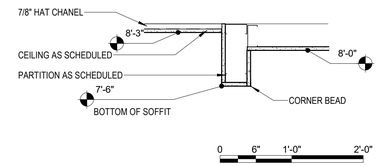
DRAWN BY
IR/AMG

CHECKED BY
BJF/DW

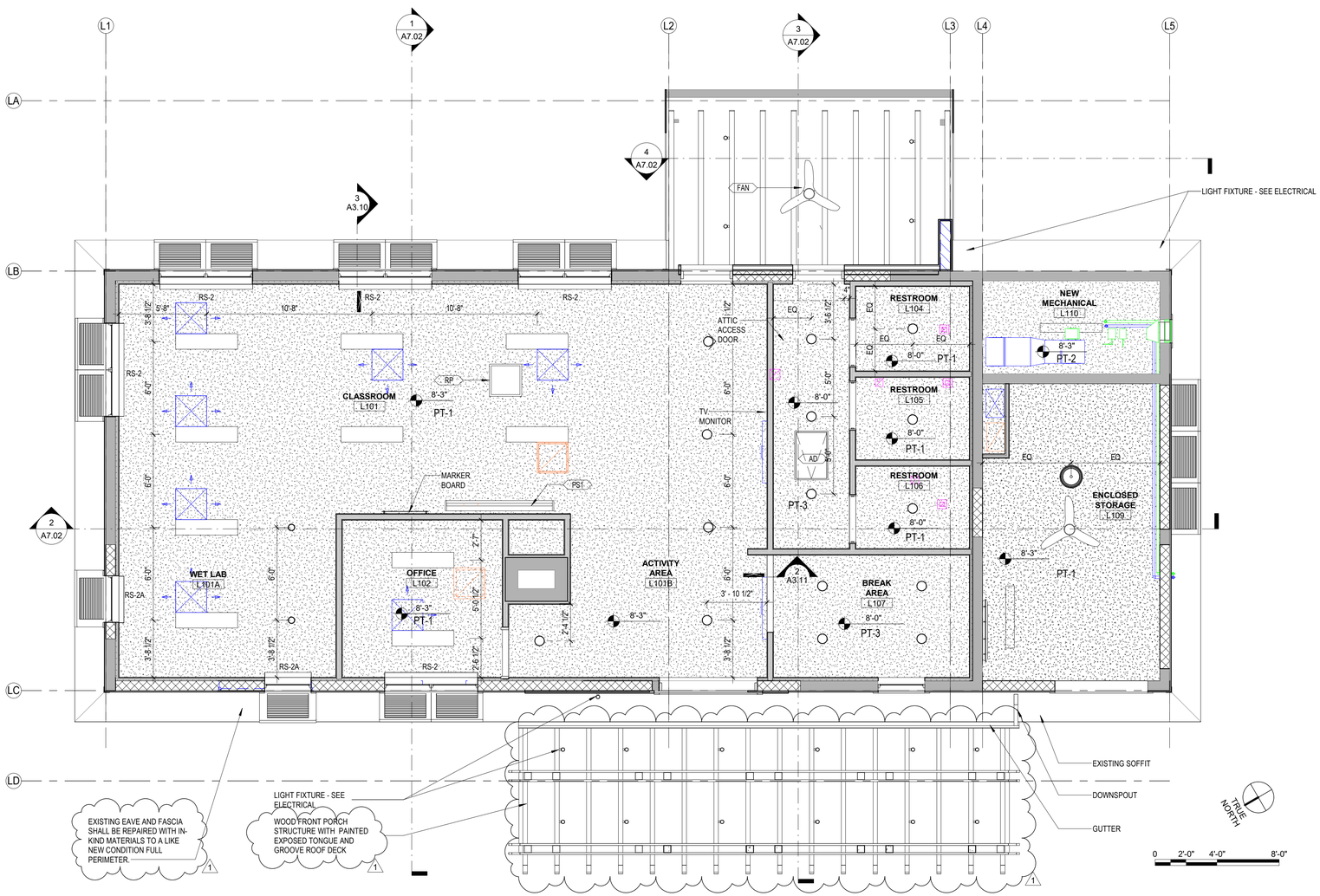
DRAWING TITLE

REFLECTED CEILING PLAN - SCIENCE CENTER

DRAWING NUMBER
A3.10



HEADER DETAIL 1" = 1'-0" (2)



SCIENCE CLASSROOM REFLECTED CEILING PLAN 1/4" = 1'-0" (1)

GENERAL RCP NOTES

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9. CEILING GRIDS SHALL BE CENTERED IN ROOMS U.N.O.
10. REFER TO SHEET A4.01 FOR EQUIPMENT SCHEDULE

RCP GRAPHIC LEGEND

GWB-1 — PAINTED, (1) LAYER 5/8" GWB CEILING ON EXISTING FURRING

WD-1 — SHIP LAP PLANK PAINTED TO MATCH PT-1

EQUIPMENT

Type Mark	Description	Model	Manufacturer
DRY	GE 7.4 CU FT Dryer	GTD72EBSNWS	GE
DW	Iop Control with plastic interior Dish Washer	GDT530PSP	GE
FAN	Haiku 52In Dia	Java Ceiling Fan	Minka aire fans
MICW	Sensor Microwave Oven	PES7227SLSS	GE Profile
PS1	Projection Screen	Access Fit M manual projection screen	Draper Inc.
PS2	Projection Screen	Access/Series E	Draper Inc.
REF	Top Freezer Refrigerator	GTE17GSNRSS	GE Energy Star
RP	Projector Lift	Access FIT M Manual Projection Screen	Draper Inc.
TST	Convention Toaster Oven	G90CAASSPSS	GE
TV	50" Class BE50T-LED 4K Commercial Grade TV	BE50T-H	Samsung
WASH	GE 5.2 CU FT Washer	GTW840CNWS	GE

SUB-CONSULTANT

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BOCA RATON, FL 33487
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REGISTRATION

SAMUEL J. FERRERI, AIA
REGISTRATION NO. AR10011

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
N21002

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REVISIONS

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DATE OF ISSUE
10/05/2022

DESIGNED BY
BJF/DF

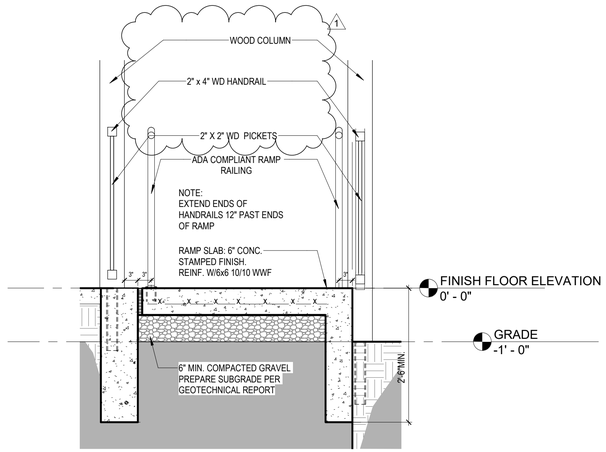
DRAWN BY
IR/AMG

CHECKED BY
BJF/DW

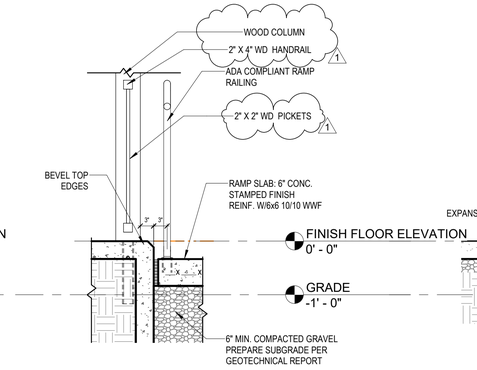
DRAWING TITLE

REFLECTED CEILING PLAN - SCIENCE CLASSROOM

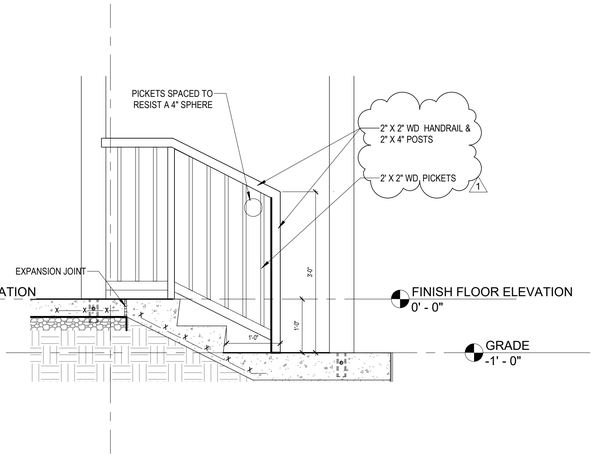
DRAWING NUMBER
A3.11



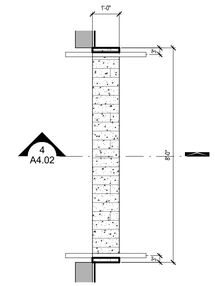
SECTION AT RAMP 3/4" = 1'-0" 6



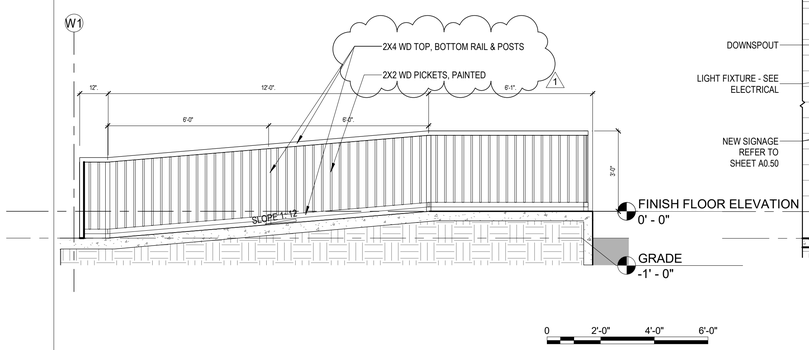
RAILING DETAIL 3/4" = 1'-0" 5



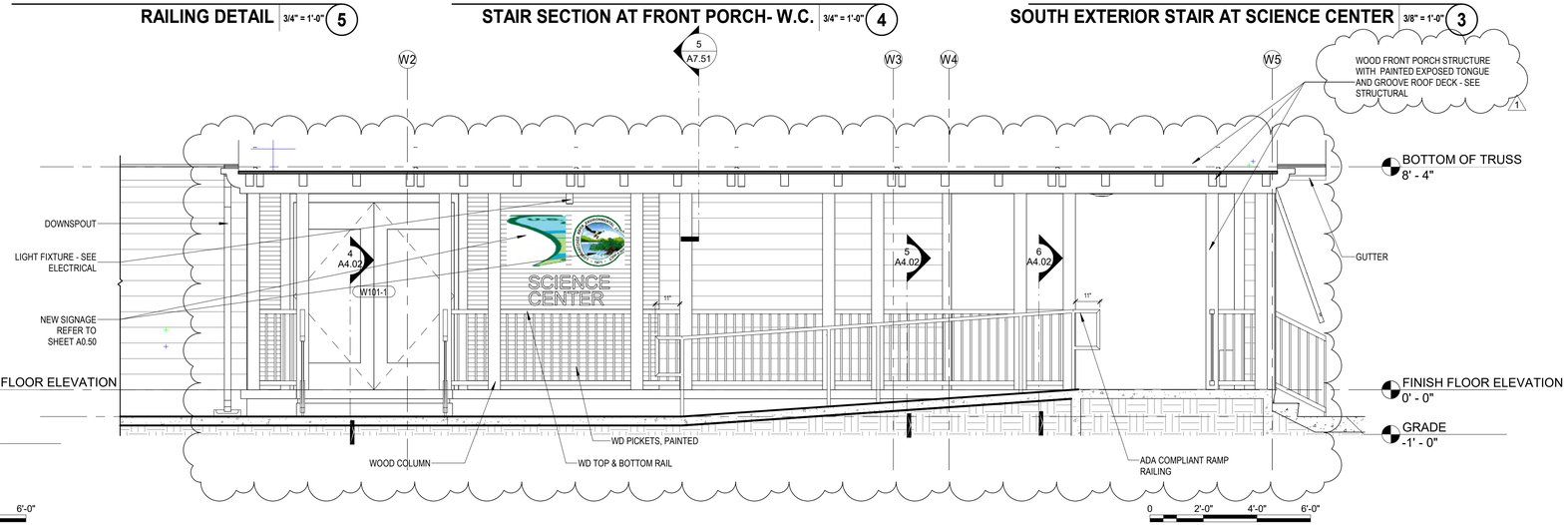
STAIR SECTION AT FRONT PORCH- W.C. 3/4" = 1'-0" 4



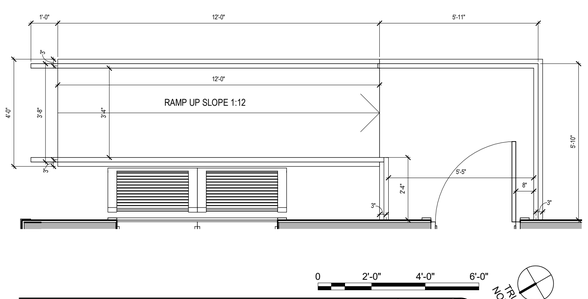
SOUTH EXTERIOR STAIR AT SCIENCE CENTER 3/8" = 1'-0" 3



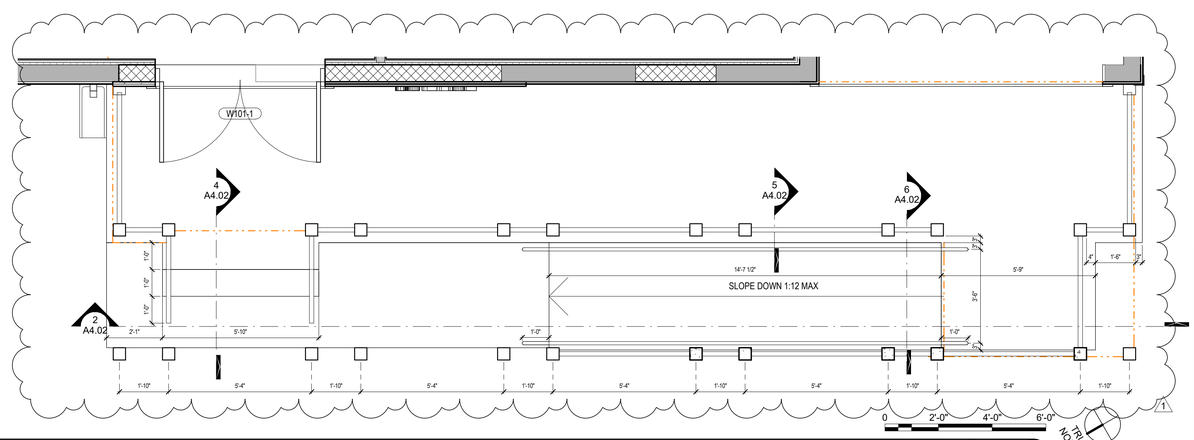
NORTH-SOUTH EXIT RAMP SECTION 3/8" = 1'-0" 8



NORTH SOUTH SECTION AT RAMP- WELCOME CENTER 3/8" = 1'-0" 2



EXIT RAMP ENLARGED PLAN 3/8" = 1'-0" 7



SCIENCE CENTER FRONT PORCH ENLARGED PLAN 3/8" = 1'-0" 1

BID DOCUMENTS

SUB-CONSULTANT

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PGAL PROJECT NUMBER
1005744

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REGISTRATION

SAMUEL J. FERRERI, AIA
REGISTRATION NO. AR10011

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
N21002

VERIFY SCALES
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1	2022-12-22	ADDENDUM #6

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IR/AMG

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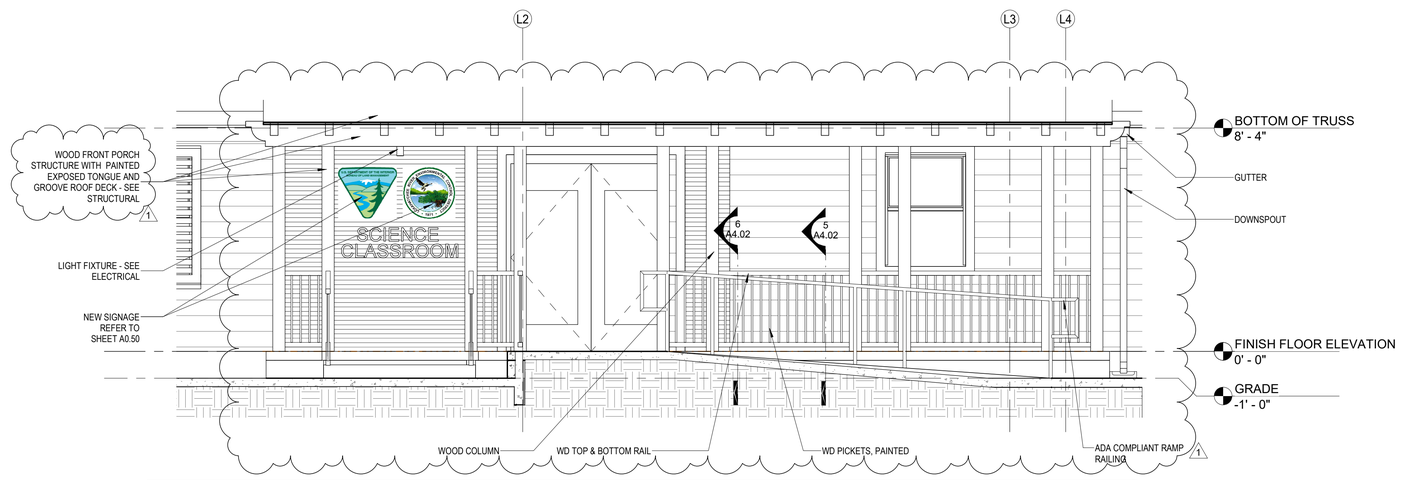
DRAWING TITLE

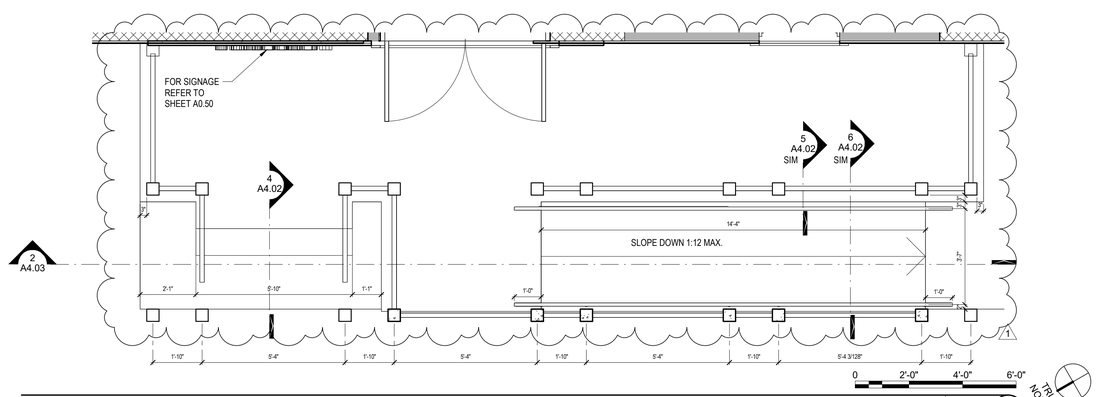
ENLARGED EXTERIOR FLOOR PLANS- SCIENCE CENTER

DRAWING NUMBER
A4.02



NORTH-SOUTH SECTION AT RAMP-SCIENCE CLASSROOM 3/8" = 1'-0" (2)

0 2'-0" 4'-0" 6'-0"



SCIENCE CLASSROOM FRONT PORCH ENLARGED PLAN 3/8" = 1'-0" (1)

0 2'-0" 4'-0" 6'-0"

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ENLARGED EXTERIOR FLOOR PLAN-SCIENCE CLASSROOM

DRAWING NUMBER
A4.03
047 OF 113

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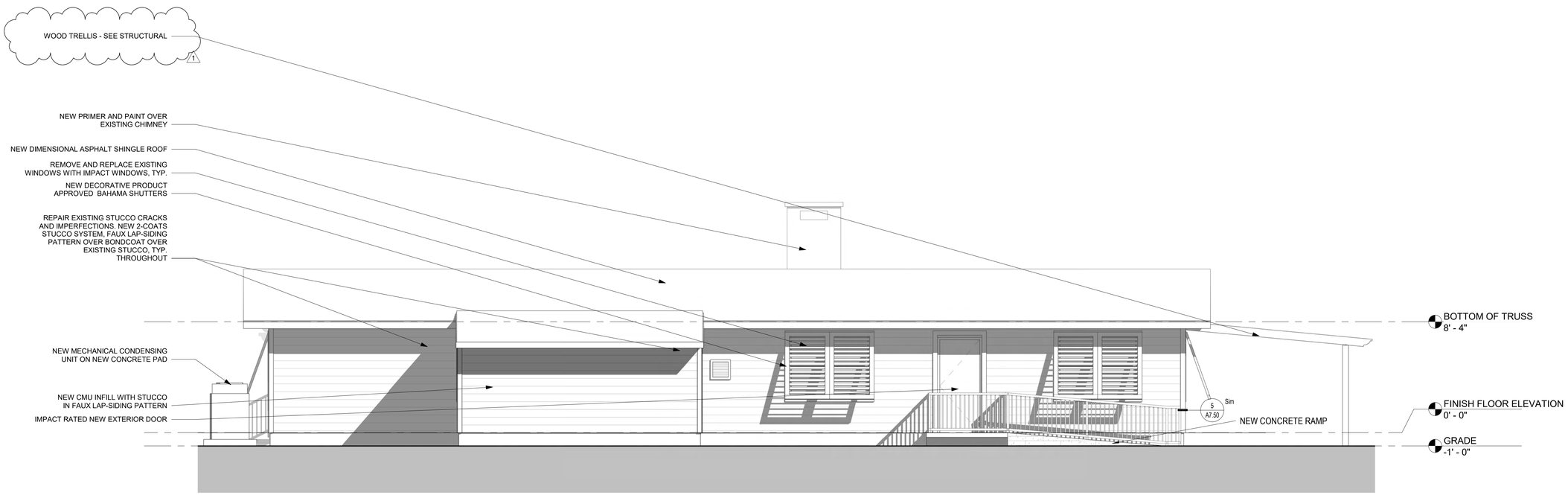
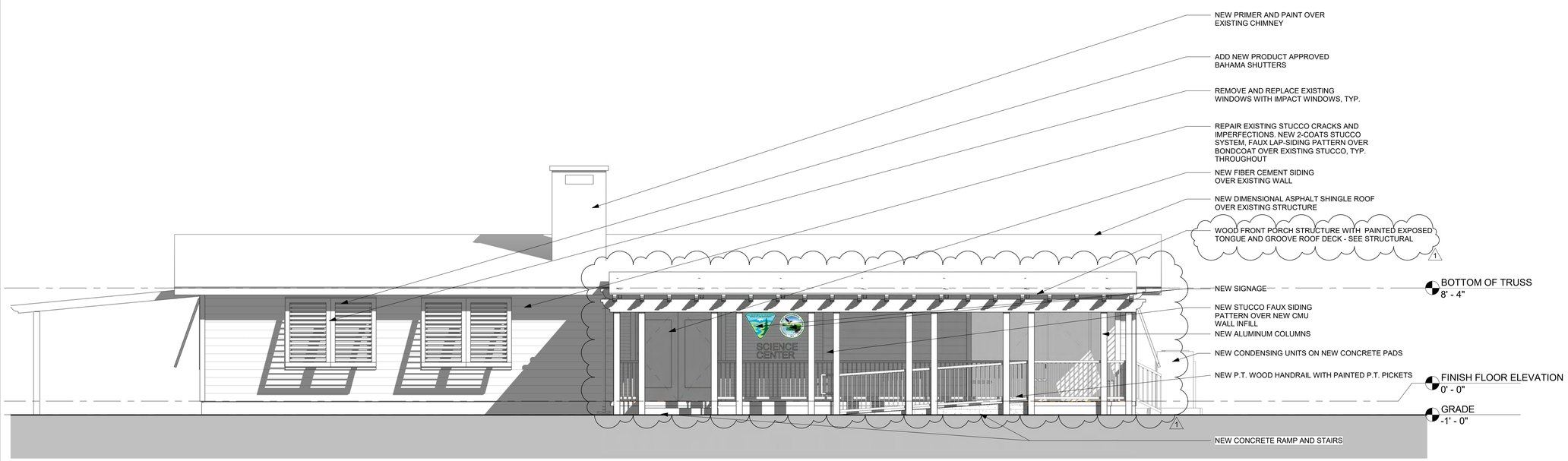


EAST ELEVATION - SCIENCE CENTER 1/4" = 1'-0" (2)



WEST ELEVATION - SCIENCE CENTER 1/4" = 1'-0" (1)

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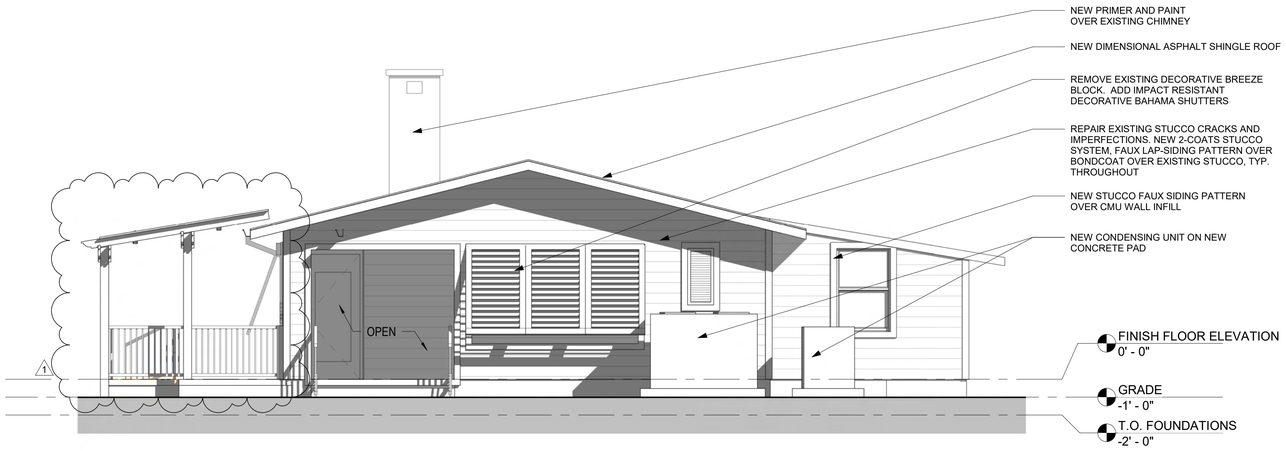
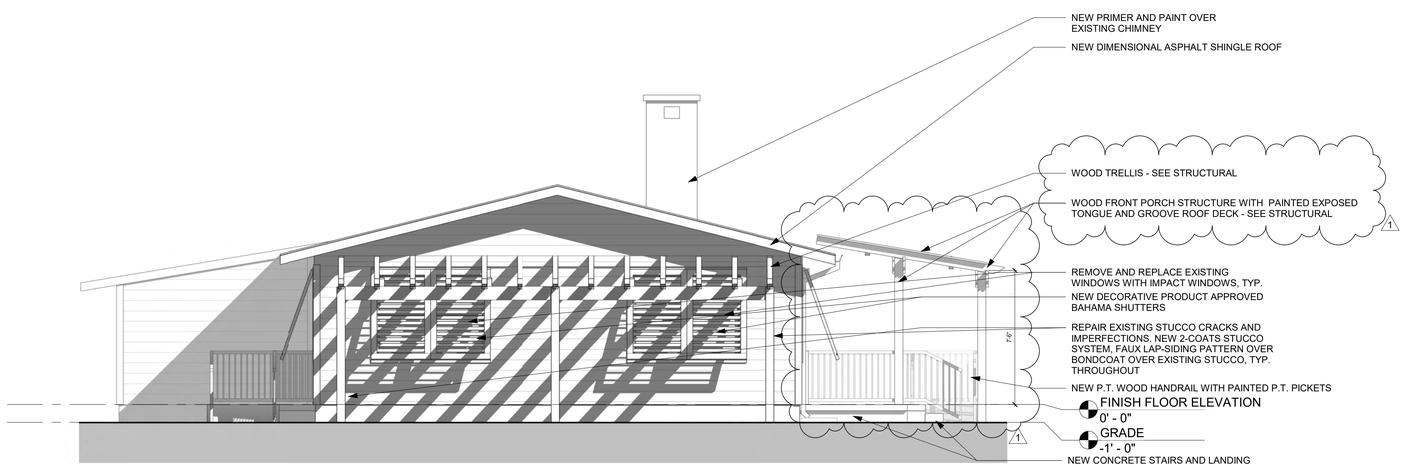
EXTERIOR ELEVATIONS - SCIENCE CENTER

DRAWING NUMBER
A6.01



SOUTH ELEVATION - SCIENCE CENTER 1/4" = 1'-0" **2**



NORTH ELEVATION - SCIENCE CENTER 1/4" = 1'-0" **1**

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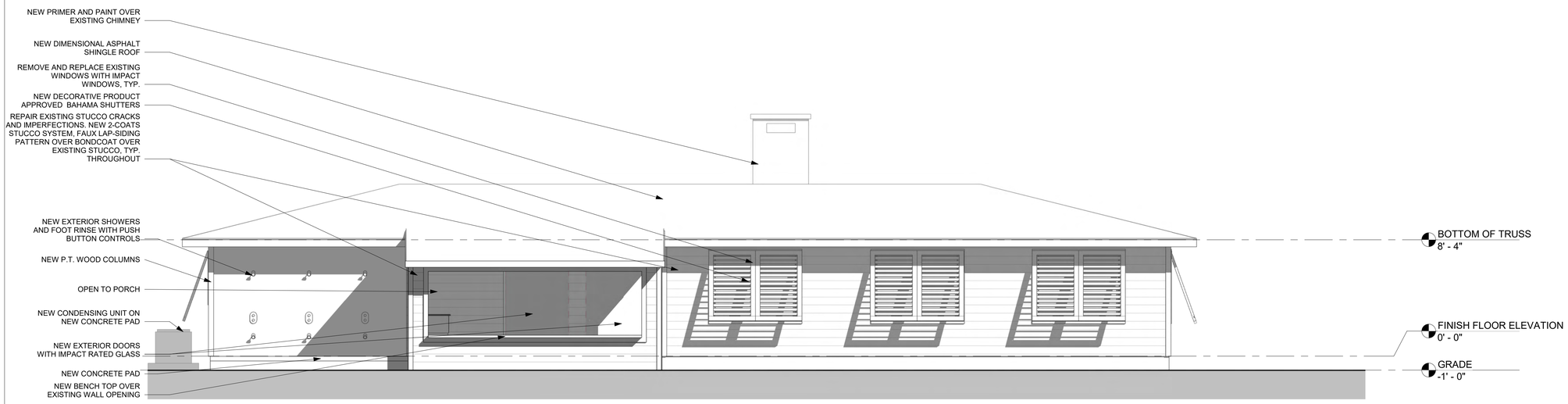
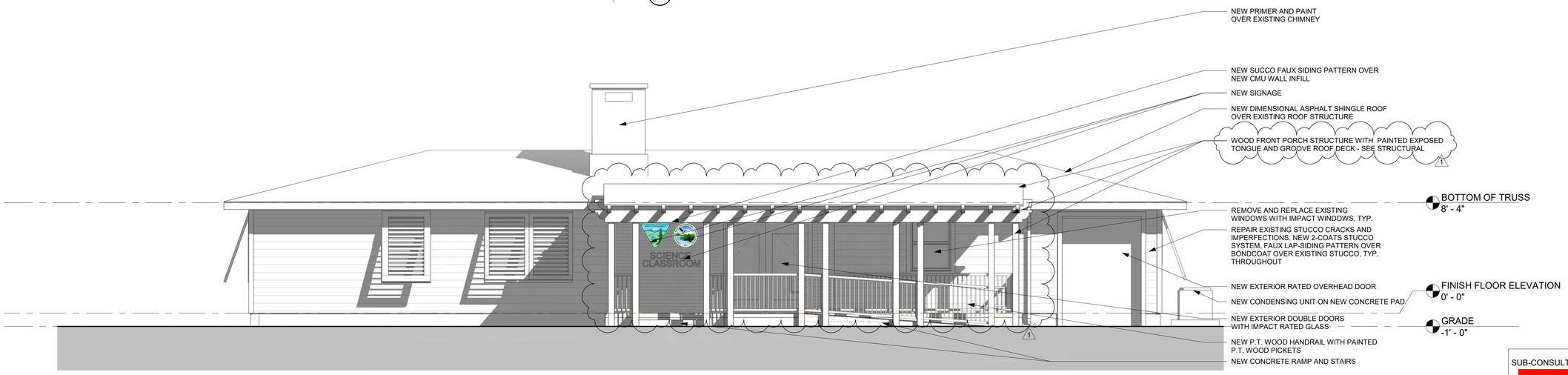


EAST ELEVATION - SCIENCE CLASSROOM 1/4" = 1'-0" (2)



WEST ELEVATION - SCIENCE CLASSROOM 1/4" = 1'-0" (1)

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DRAWING NUMBER
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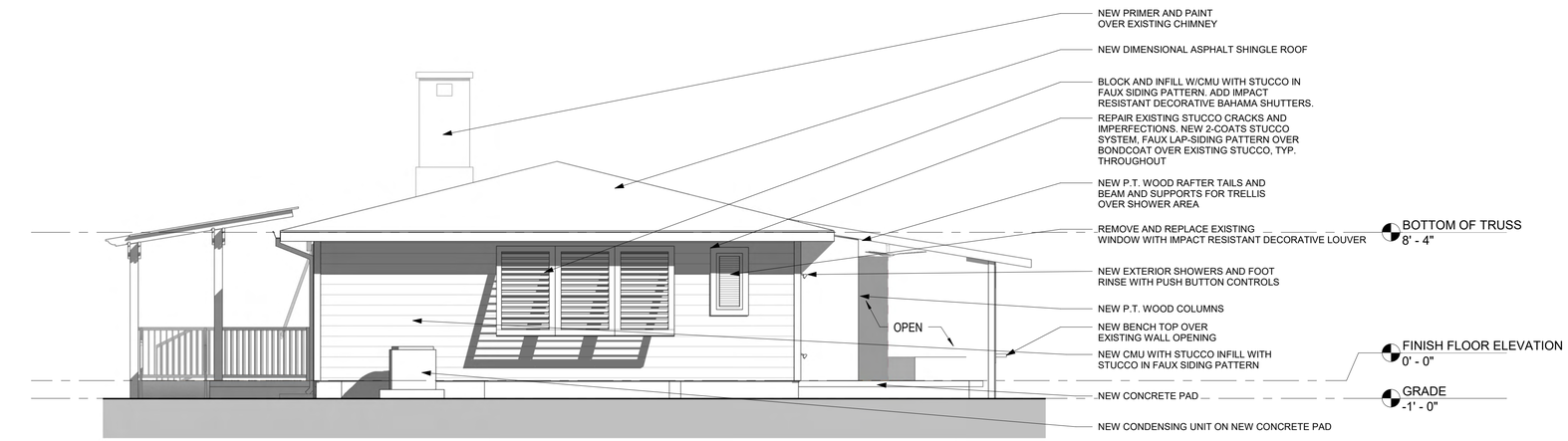
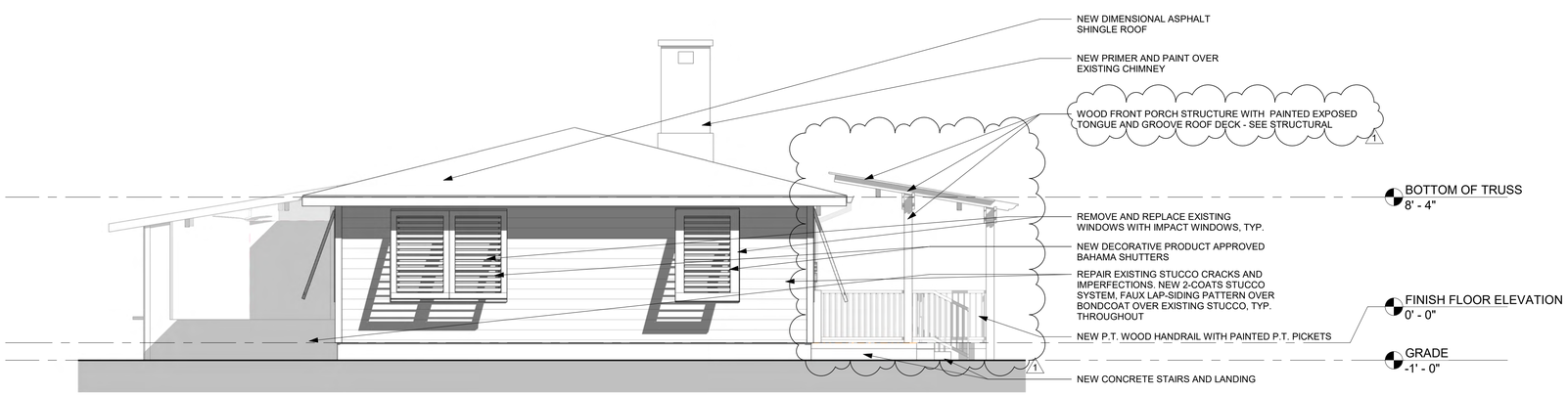


SOUTH ELEVATION - SCIENCE CLASSROOM 1/4" = 1'-0" 2



NORTH ELEVATION - SCIENCE CLASSROOM 1/4" = 1'-0" 1

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A6.04
051 OF 113

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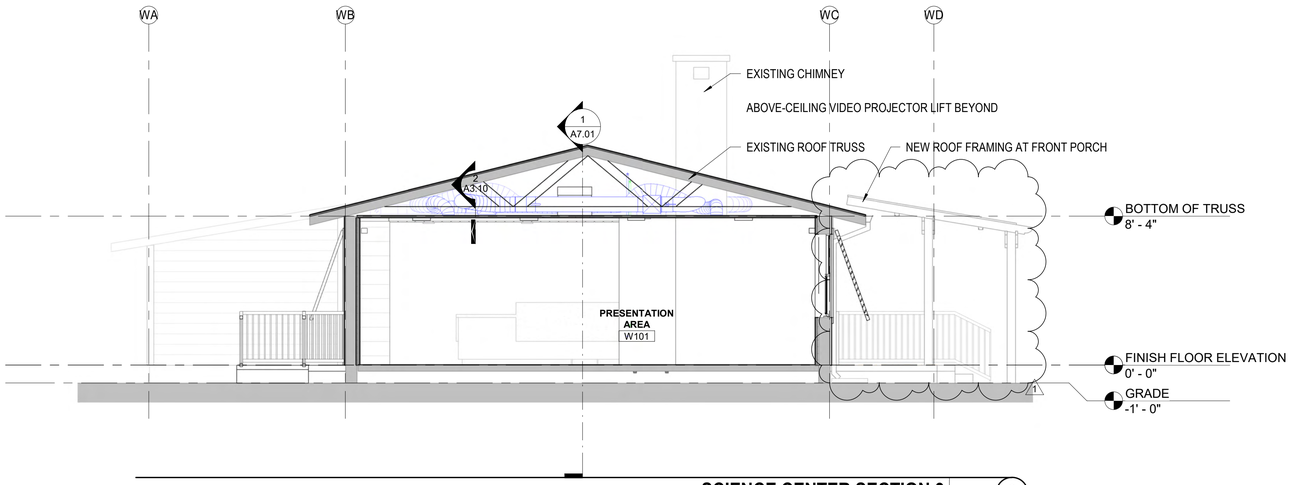
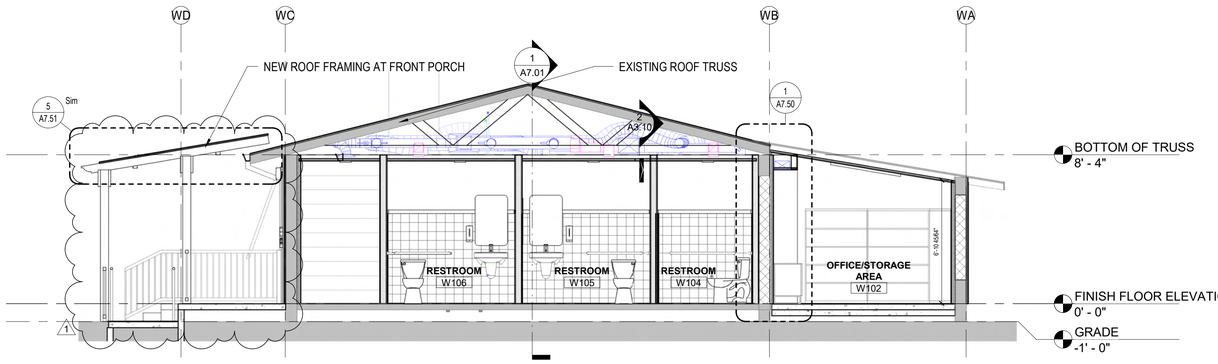
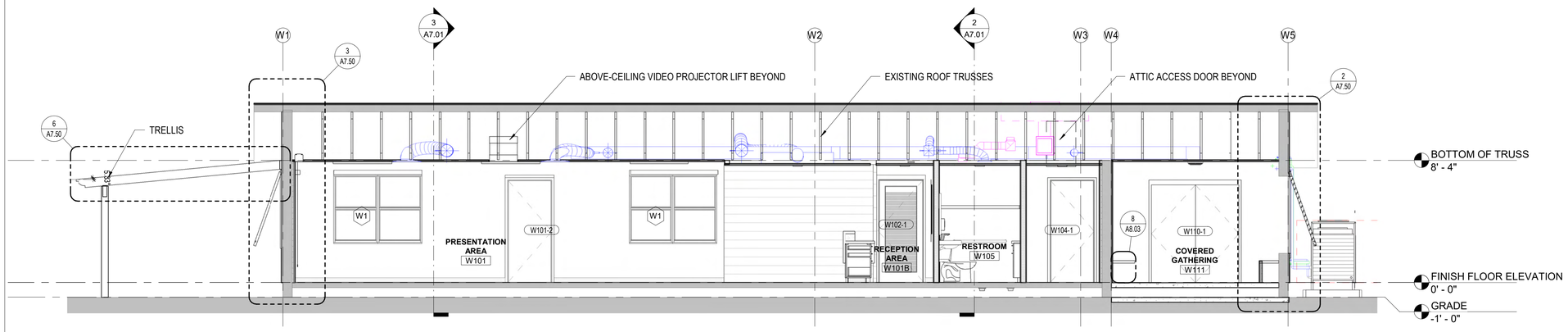


SCIENCE CENTER SECTION 3 1/4" = 1'-0" (3)



SCIENCE CENTER SECTION 2 1/4" = 1'-0" (2)



SCIENCE CENTER SECTION 1 1/4" = 1'-0" (1)

GENERAL SECTION NOTES

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4. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF BLOCKING FOR INSTALLATION OF SIGNAGE, PLUMBING FIXTURES, MILLWORK, ETC. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED (F.R.T).

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REGISTRATION

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REGISTRATION NO. AR10011

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
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BUILDING SECTIONS - SCIENCE CENTER

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A7.01
052 OF 113

SUB-CONSULTANT

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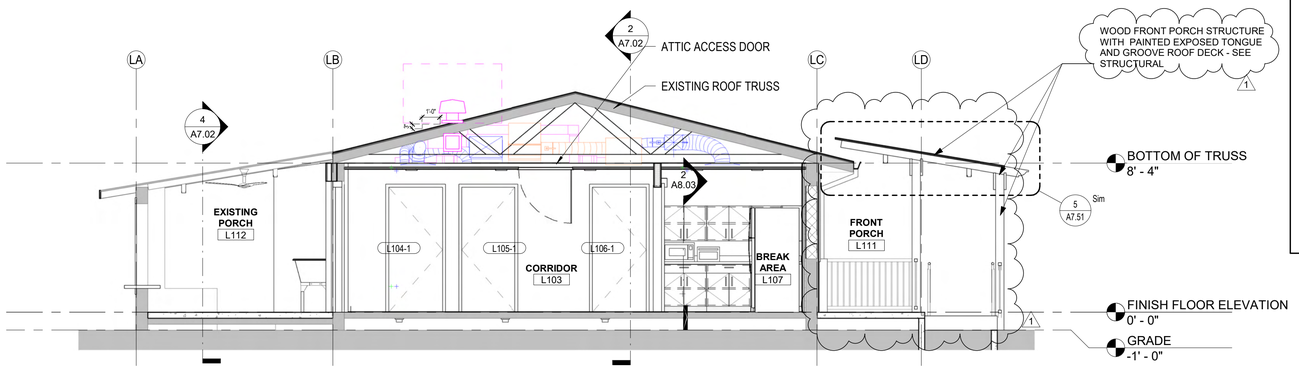
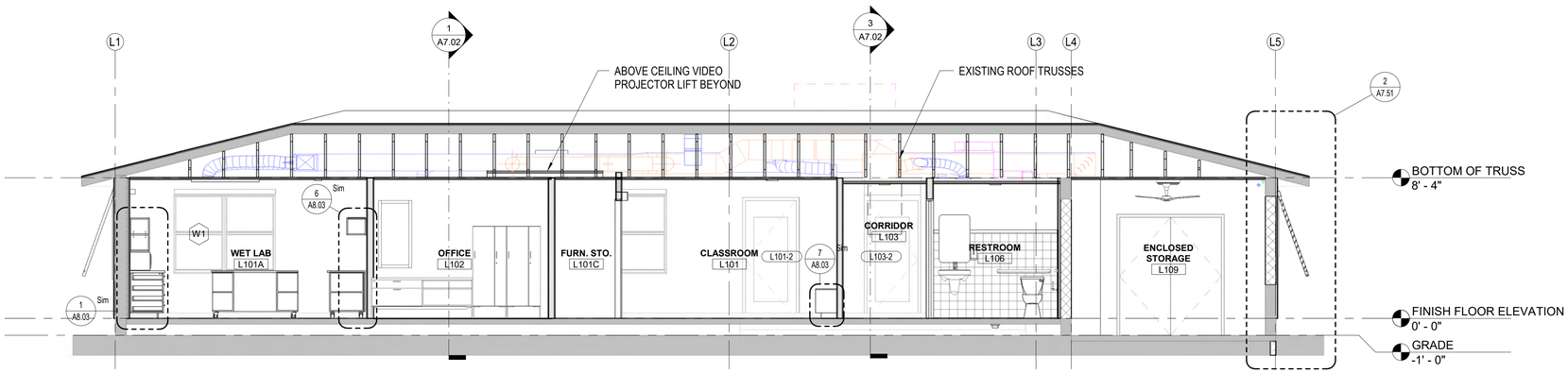
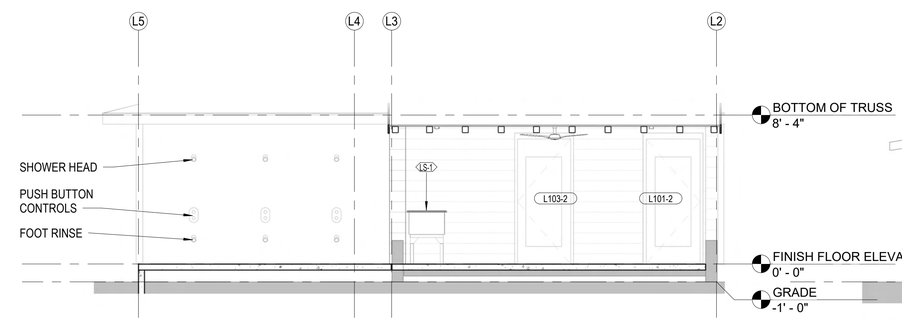


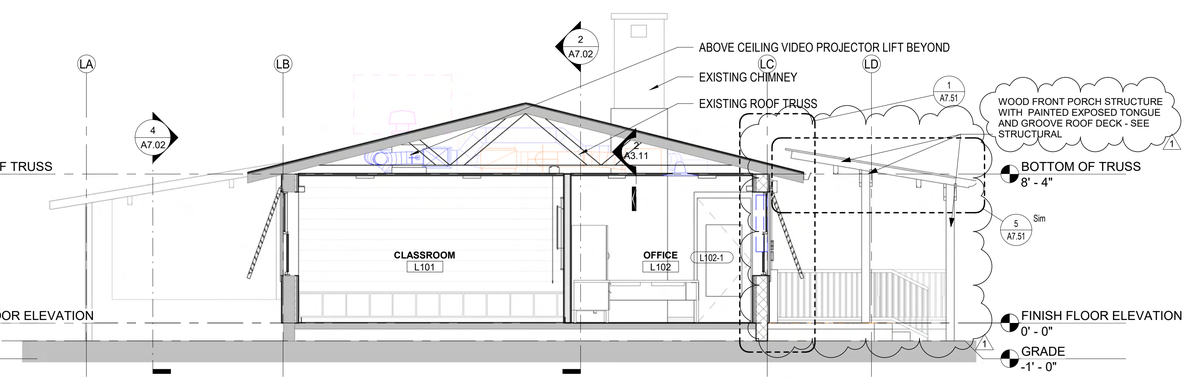
SCIENCE CLASSROOM SECTION 3 1/4" = 1'-0" (3)



SCIENCE CLASSROOM SECTION 1 1/4" = 1'-0" (2)



SCIENCE CLASSROOM BACK PORCH 1/4" = 1'-0" (4)



SCIENCE CLASSROOM SECTION 2 1/4" = 1'-0" (1)

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BUILDING SECTIONS -SCIENCE CLASSROOM

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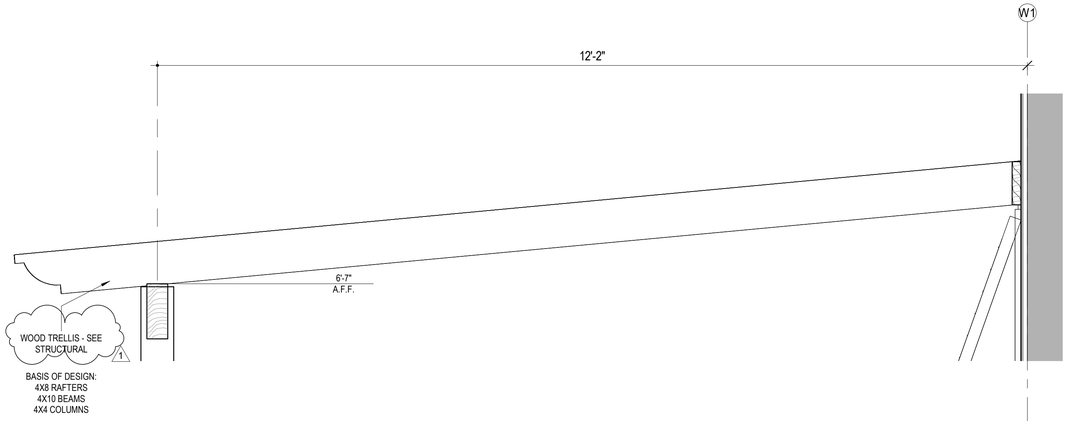
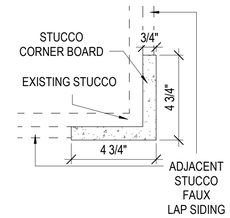


SCIENCE CENTER TRELLIS SECTION 1" = 1'-0" (6)



STUCCO CORNER BOARD PLAN DETAIL 3" = 1'-0" (5)

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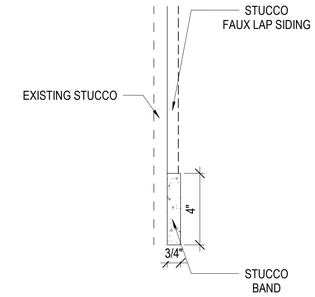
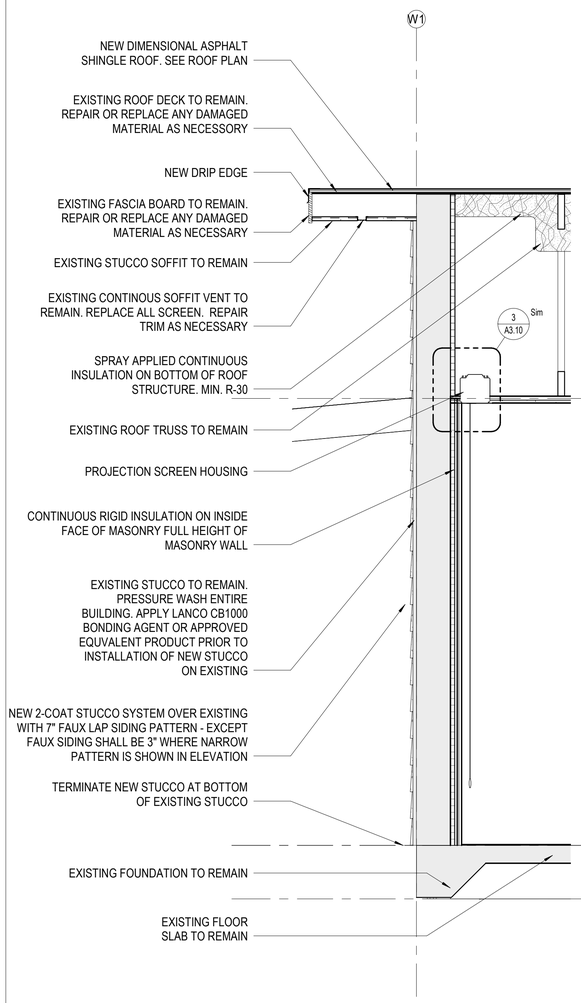
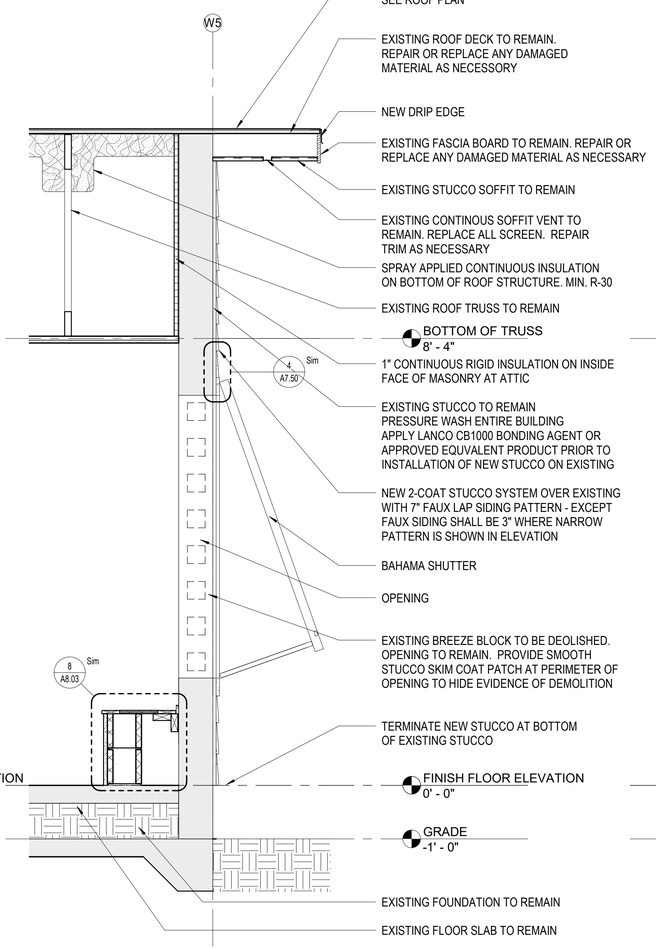


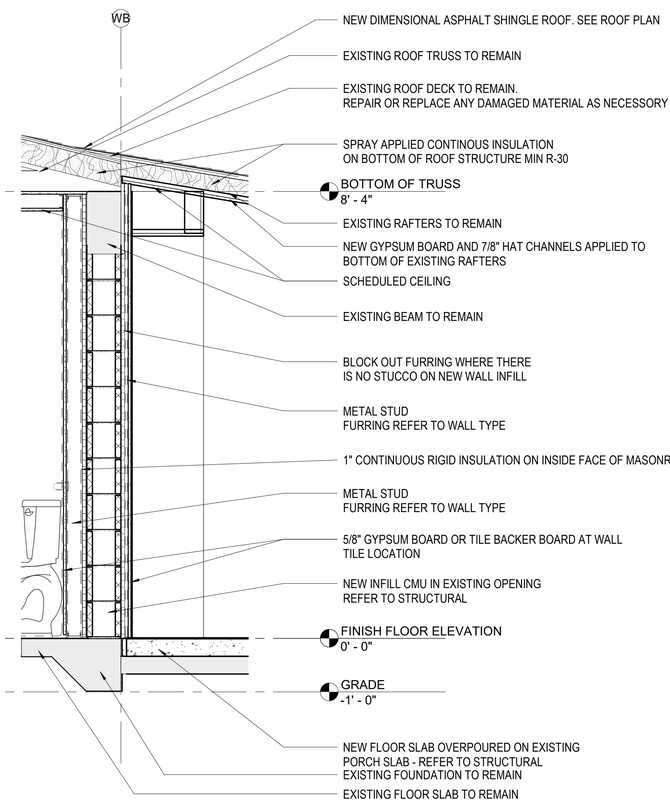
STUCCO OPENING SURROUND 3" = 1'-0" (4)



WALL SECTION 3 3/4" = 1'-0" (3)



WALL SECTION 2 3/4" = 1'-0" (2)



WALL SECTION 1 3/4" = 1'-0" (1)

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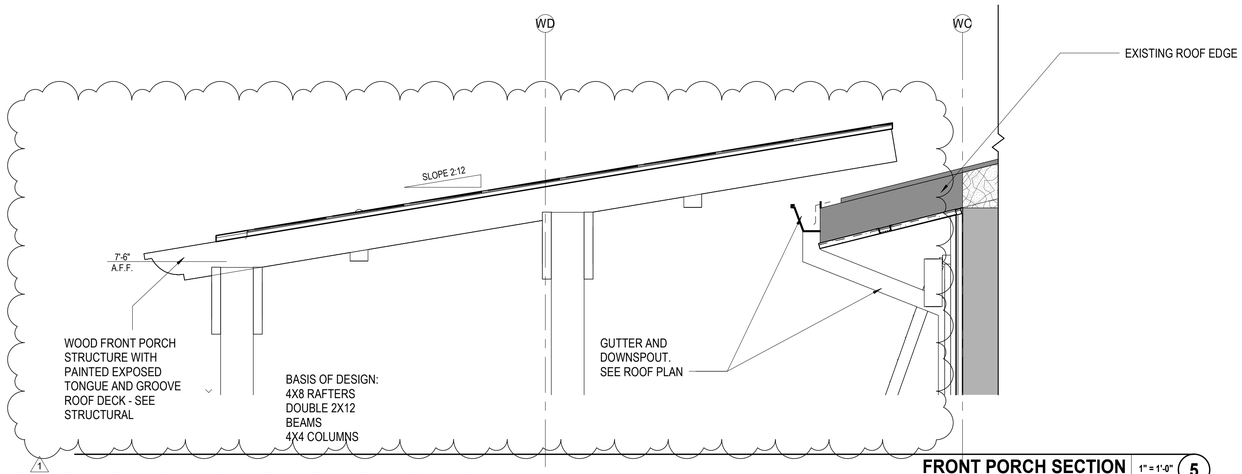
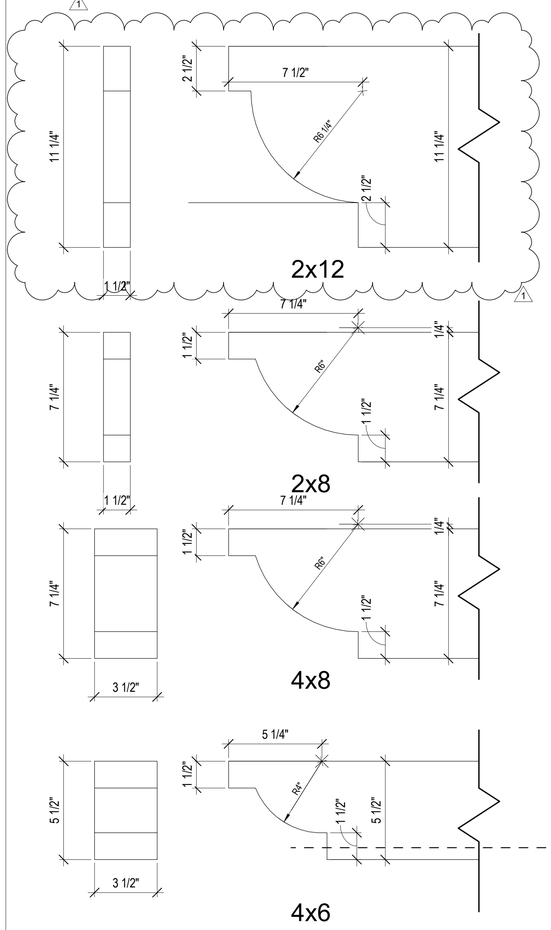
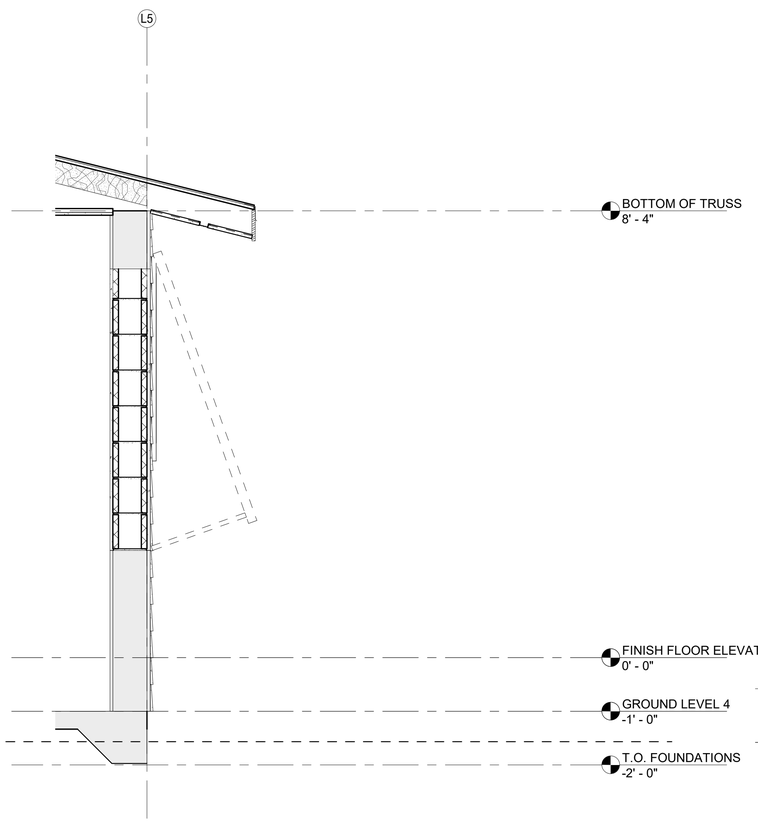
A7.50
054 OF 113



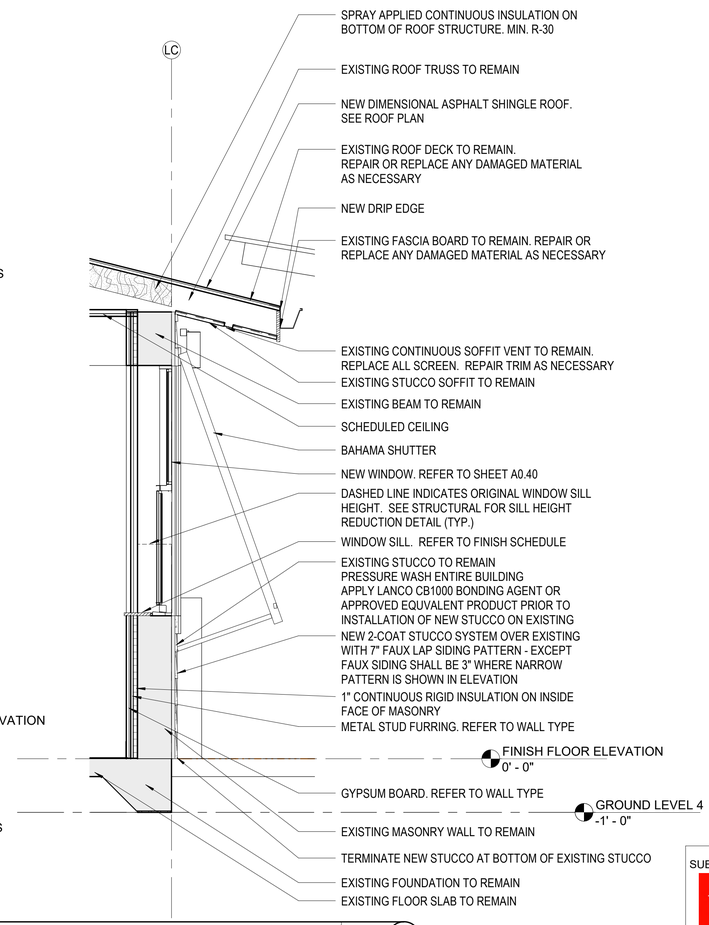
FRONT PORCH SECTION 1" = 1'-0" (5)



RAFTER TAIL DETAILS 3" = 1'-0" (3)



WALL SECTION 5 3/4" = 1'-0" (2)



WALL SECTION 4 3/4" = 1'-0" (1)

GENERAL SECTION NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION BEFORE EXECUTION OF WORK.
3. DO NOT SCALE DIMENSIONS FROM DRAWINGS, ANY UNKNOWN DIMENSION SHALL BE OBTAINED FROM DESIGN PROFESSIONALS VIA REQUEST FOR INFORMATION (RFI).
4. CONTRACTOR SHALL FIELD COORDINATE LOCATION, SIZE AND TYPE OF BLOCKING FOR INSTALLATION OF SIGNAGE, PLUMBING FIXTURES, MILLWORK, ETC. ALL CONCEALED WOOD SHALL BE FIRE RETARDANT TREATED (F.R.T).

SUB-CONSULTANT

PGAL

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BOCA RATON, FL 33487
[T] 561 988 4002
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PGAL PROJECT NUMBER
1005744

BID DOCUMENTS

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561.746.6900
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REGISTRATION

SAMUEL J. FERRERI, AIA
REGISTRATION NO. AR10011

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
N21002

VERIFY SCALES
0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

No.	DATE	DESCRIPTION
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SF

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AM

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DW

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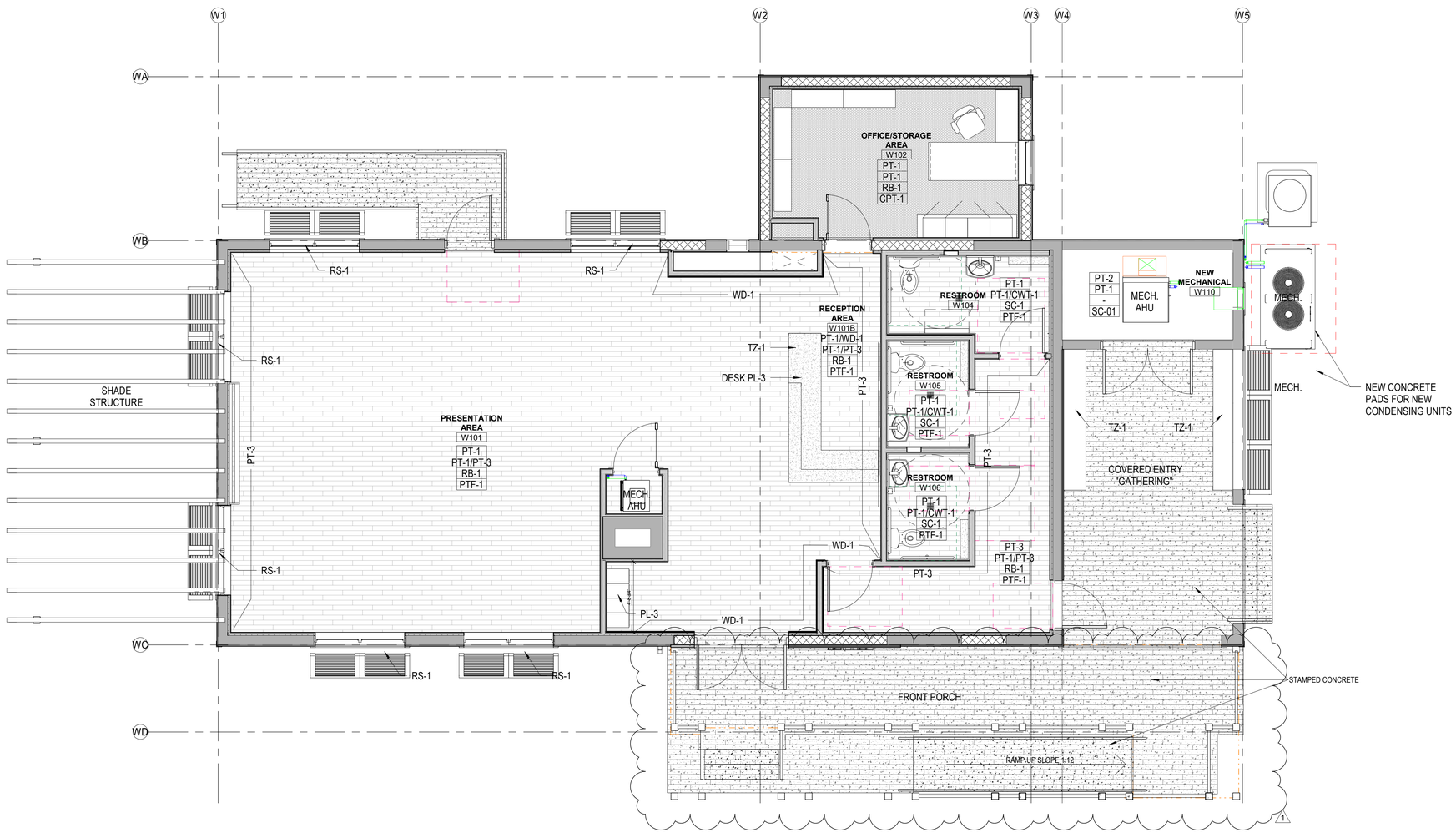
WALL SECTIONS

DRAWING NUMBER
A7.51
055 OF 113



FLOOR FINISH PLAN - SCIENCE CENTER 1/4" = 1'-0" (1)

0 2'-0" 4'-0" 8'-0"

BID DOCUMENTS

FINISH PLAN NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. REFER TO FINISH SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
3. CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY, INACCURACY OR CONFLICTING INFORMATION IN WRITING BEFORE EXECUTION OF WORK.
4. REFER TO SLAB EDGE PLANS FOR LOCATIONS AND EXTENTS OF THE LOW PROFILE ACCESS FLOOR SYSTEM. CARPET TO BE LOOSE LAID OVER THE FLOOR SYSTEM, COORDINATE CARPET TILE BACKING MATERIAL WITH FLOOR SYSTEM FOR A FRICTION FIT ATTACHMENT.
5. ALL MECHANICAL, JANITOR'S CLOSET, ELECTRICAL AND IDF ROOMS TO HAVE A NON-SLIP EPOXY FINISH WITH 8" INTEGRAL BASE.

FINISH PLAN LEGEND

NOTE: REFERENCE TYPICAL PLAN LEGEND GRAPHICS ON GENERAL PROJECT INFORMATION SHEET, SEE FINISH SCHEDULE FOR MORE INFORMATION

CEILING / WALL / BASE / FLOOR		ROOM TAG WITH FINISHES
	CPT-1	CARPET TILE PLANK
	PTF-1	PORCELAIN FLOOR TILE
	WD-1	PAINTED WOOD SHIP LAP
	SC01	SEALED CONCRETE
	TZ	TERRAZZO
	CTW-1	CERAMIC WALL TILE
	AWP-1	ACOUSTIC WALL PANEL
	AWP-2	ACOUSTIC WALL PANEL
	RB-1	RUBBER WALL BASE
	BC-1	BRUSHED CONCRETE
	SC-1	STAMPED CONCRETE, BRUSHED FINISH

STAMPED CONCRETE SURFACES SHALL ATTAIN A COEFFICIENT OF FRICTION (COF) OF MINIMUM 0.6 FOR LEVEL SURFACES AND MINIMUM 0.8 FOR SLOPED SURFACES

NOTE: KEYNOTE NUMBERING IS FOR ORGANIZATIONAL PURPOSES ONLY & NOT INTENDED TO REFERENCE A SPECIFIC CSI DIVISION

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REGISTRATION

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CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

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BJF

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BJF/AMG

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BJF

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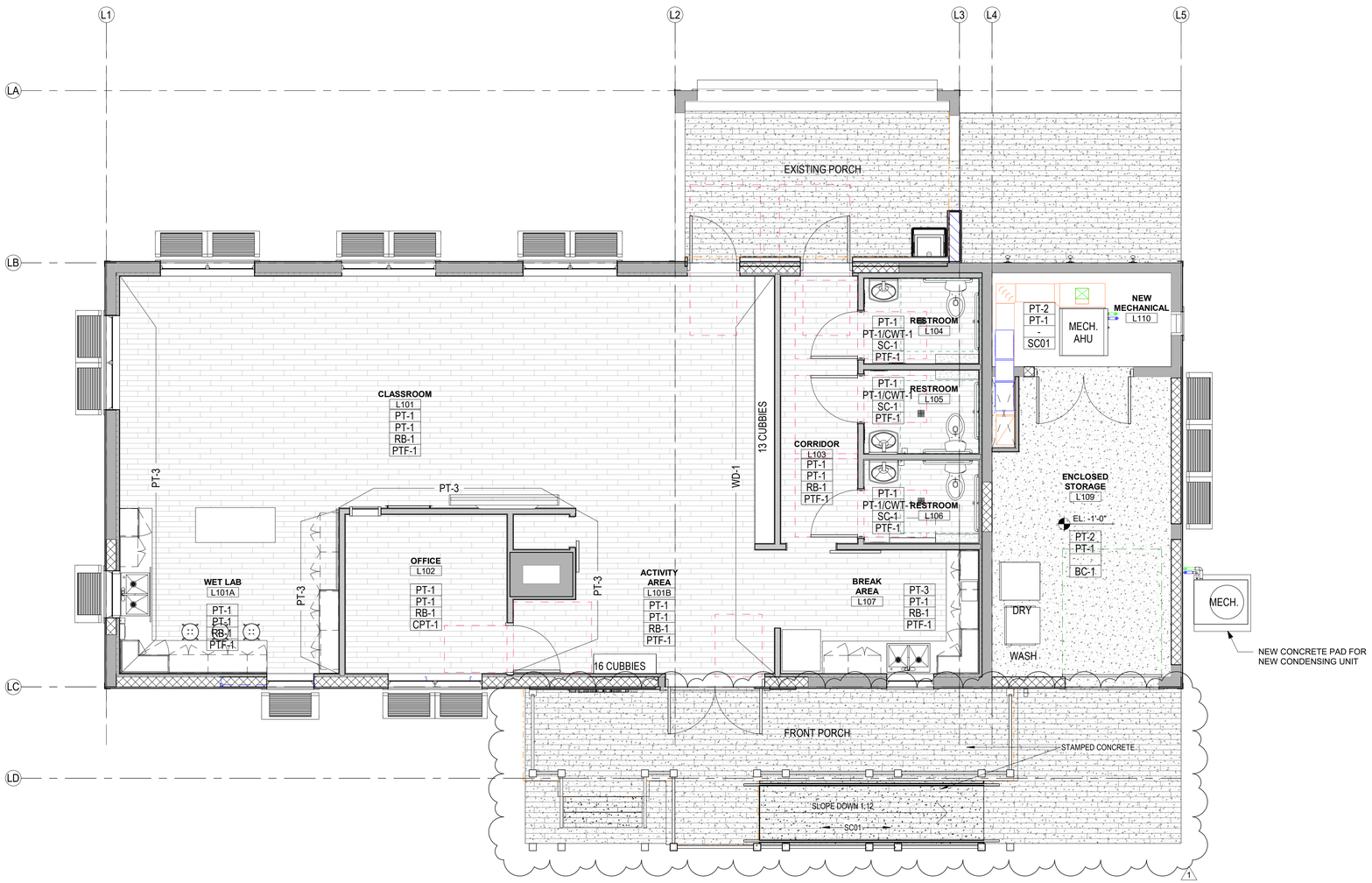
FINISH PLAN - SCIENCE CENTER

DRAWING NUMBER
AF2.10
060 OF 113



FLOOR FINISH PLAN - SCIENCE CLASSROOM 1/4" = 1'-0" (1)

0 2'-0" 4'-0" 8'-0"

BID DOCUMENTS

FINISH PLAN NOTES

1. DO NOT SCALE DRAWINGS, CONTACT THE ARCHITECT IN WRITING FOR CLARIFICATIONS OR MISSING DIMENSIONS.
2. REFER TO FINISH SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
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FINISH PLAN LEGEND

NOTE: REFERENCE TYPICAL PLAN LEGEND GRAPHICS ON GENERAL PROJECT INFORMATION SHEET, SEE FINISH SCHEDULE FOR MORE INFORMATION

CEILING / WALL / BASE / FLOOR	ROOM TAG WITH FINISHES
CPT-1	CARPET TILE PLANK
PTF-1	PORCELAIN FLOOR TILE
WD-1	PAINTED WOOD SHIP LAP
SC01	SEALED CONCRETE
TZ	TERRAZZO
CTW-1	CERAMIC WALL TILE
AWP-1	ACOUSTIC WALL PANEL
AWP-2	ACOUSTIC WALL PANEL
RB-1	RUBBER WALL BASE
BC-1	BRUSHED CONCRETE
SC-1	STAMPED CONCRETE, BRUSHED FINISH

STAMPED CONCRETE SURFACES SHALL ATTAIN A COEFFICIENT OF FRICTION (COF) OF MINIMUM 0.6 FOR LEVEL SURFACES AND MINIMUM 0.8 FOR SLOPED SURFACES

NOTE: KEYNOTE NUMBERING IS FOR ORGANIZATIONAL PURPOSES ONLY & NOT INTENDED TO REFERENCE A SPECIFIC CSI DIVISION

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CLIENT PROJECT NUMBER
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BJF

DRAWN BY
BJF/AMG

CHECKED BY
BJF

DRAWING TITLE

FINISH PLAN - SCIENCE CLASSROOM

DRAWING NUMBER
AF2.11
061 OF 113

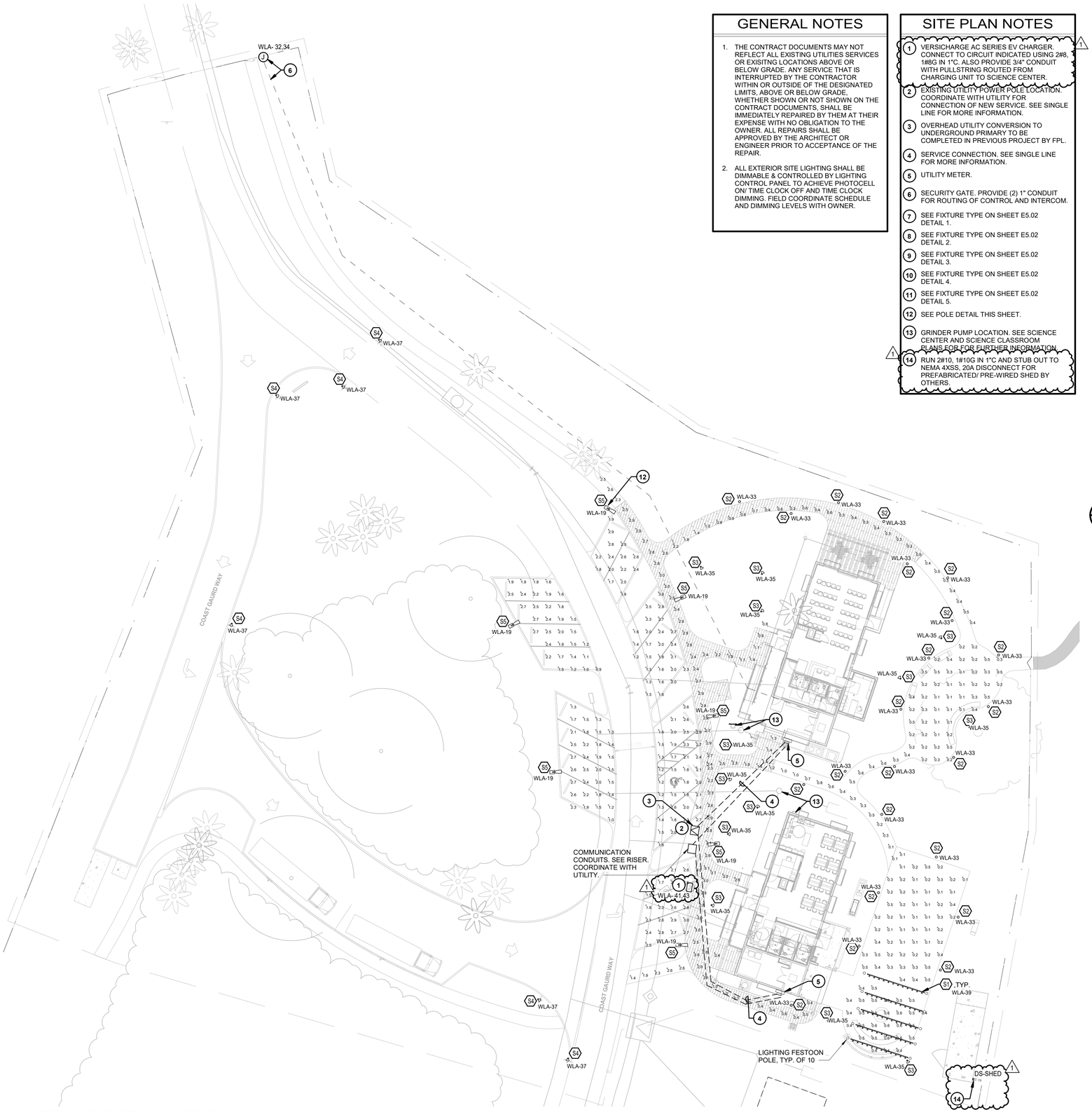
GENERAL NOTES

1. THE CONTRACT DOCUMENTS MAY NOT REFLECT ALL EXISTING UTILITIES SERVICES OR EXISITNG LOCATIONS ABOVE OR BELOW GRADE. ANY SERVICE THAT IS INTERRUPTED BY THE CONTRACTOR WITHIN OR OUTSIDE OF THE DESIGNATED LIMITS, ABOVE OR BELOW GRADE, WHETHER SHOWN OR NOT SHOWN ON THE CONTRACT DOCUMENTS, SHALL BE IMMEDIATELY REPAIRED BY THEM AT THEIR EXPENSE WITH NO OBLIGATION TO THE OWNER. ALL REPAIRS SHALL BE APPROVED BY THE ARCHITECT OR ENGINEER PRIOR TO ACCEPTANCE OF THE REPAIR.

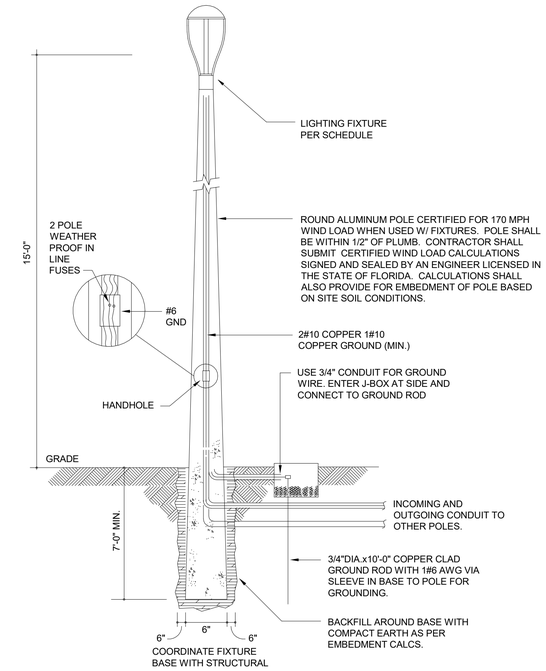
2. ALL EXTERIOR SITE LIGHTING SHALL BE DIMMABLE & CONTROLLED BY LIGHTING CONTROL PANEL TO ACHIEVE PHOTOCELL ON/ TIME CLOCK OFF AND TIME CLOCK DIMMING. FIELD COORDINATE SCHEDULE AND DIMMING LEVELS WITH OWNER.

SITE PLAN NOTES

1. VERSICHARGE AC SERIES EV CHARGER. CONNECT TO CIRCUIT INDICATED USING 2#8, 1#8G IN 1"C. ALSO PROVIDE 3/4" CONDUIT WITH PULLSTRING ROUTED FROM CHARGING UNIT TO SCIENCE CENTER.
2. EXISTING UTILITY POWER POLE LOCATION. COORDINATE WITH UTILITY FOR CONNECTION OF NEW SERVICE. SEE SINGLE LINE FOR MORE INFORMATION.
3. OVERHEAD UTILITY CONVERSION TO UNDERGROUND PRIMARY TO BE COMPLETED IN PREVIOUS PROJECT BY FPL.
4. SERVICE CONNECTION. SEE SINGLE LINE FOR MORE INFORMATION.
5. UTILITY METER.
6. SECURITY GATE. PROVIDE (2) 1" CONDUIT FOR ROUTING OF CONTROL AND INTERCOM.
7. SEE FIXTURE TYPE ON SHEET E5.02 DETAIL 1.
8. SEE FIXTURE TYPE ON SHEET E5.02 DETAIL 2.
9. SEE FIXTURE TYPE ON SHEET E5.02 DETAIL 3.
10. SEE FIXTURE TYPE ON SHEET E5.02 DETAIL 4.
11. SEE FIXTURE TYPE ON SHEET E5.02 DETAIL 5.
12. SEE POLE DETAIL THIS SHEET.
13. GRINDER PUMP LOCATION. SEE SCIENCE CENTER AND SCIENCE CLASSROOM PLANS FOR FURTHER INFORMATION.
14. RUN 2#10, 1#10G IN 1"C AND STUB OUT TO NEMA 4XSS, 20A DISCONNECT FOR PREFABRICATED/ PRE-WIRED SHED BY OTHERS.



1 / E1.01 **OVERALL ELECTRICAL SITE PLAN**
SCALE: 1" = 20'-0"



2 / E1.01 **TYPE 'PT' LIGHTING POLE DETAIL**
SCALE: 1/8" = 1'-0"

BID DOCUMENTS

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REGISTRATION

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CONSULTING ENGINEERS
www.jlrdinc.com
Jason A. Strinchcomb, P.E. 58184
Michael P. Linden, P.E. 58094

JLRD Job Number: 120133

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
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SL

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MM

CHECKED BY
JAS

DRAWING TITLE
ELECTRICAL SITE PLAN

DRAWING NUMBER
E1.01

DISCONNECT SWITCH SCHEDULE

NO.	SWITCH/FUSE	VOLTAGE	LOCATION	CIR NO.	CONDUIT/CONDUCTOR	ENCL. TYPE	REMARKS
DS-CU3	30A/2P/5ADEF	240V/1PH	EXTERIOR WALL	WLA-16,18	2#12, 1#12G 3/4"C	NEMA 4XSS	
DS-OAU3	200A/2P/125ADEF	240V/1PH	MECHANICAL W110	WLA-20,22	2#1/0, 1#6G 1-1/2"C	NEMA 4XSS	
DS-CU2	60A/2P/35ADEF	240V/1PH	EXTERIOR WALL	WLA-24,26	2#8, 1#10G 3/4"C	NEMA 4XSS	
DS-AHU2	100A/2P/70ADEF	240V/1PH	MECH CLOSET W108	WLA-28,30	2#4, 1#8G 1"C	NEMA 4XSS	
DS-CU1	60A/2P/60ADEF	240V/1PH	EXTERIOR WALL	LLA-19,21	2#6, 1#10G 3/4"C	NEMA 4XSS	
DS-AHU1	100A/2P/70ADEF	240V/1PH	MECHANICAL L110	LLA-23,25	2#4, 1#8G 1"C	NEMA 4XSS	1
DS-WHA	100A/2P/70ADEF	240V/1PH	MECHANICAL L110	LLA-20,22	2#4, 1#8G 1"C	NEMA 4XSS	
DS-WHB	60A/2P/40ADEF	240V/1PH	MECHANICAL W110	WLA-27,29	2#6, 1#10G 3/4"C	NEMA 4XSS	
DS-GP1	30A/2P/30ADEF	240V/1PH	EXTERIOR WALL	WLA-38,40	2#12, 1#12G 3/4"C	NEMA 4XSS	
DS-GP2	30A/2P/30ADEF	240V/1PH	EXTERIOR WALL	LLA-36,38	2#12, 1#12G 3/4"C	NEMA 4XSS	
1 DS-SHED	30A/1P/20ADEF	240V/1PH	EXTERIOR SHED WALL	LLA-41	2#10, 1#10G 1"C	NEMA 4XSS	

NOTES:

1. UNIT MOUNTED DISCONNECT PROVIDED BY MANUFACTURER. REFER TO MECHANICAL SCHEDULES FOR MORE INFORMATION.

BLM WELCOME CENTER & LEARNING CENTER

LIGHTING FIXTURE SCHEDULE

4/20/2022

	Type	Manufacturer	Model#	Lamp	Voltage	Dimming	Accessories	Notes	Comments
BUILDING									
A	1X4 SURFACE MOUNTED LED FLAT PANEL	LITHONIA	CPX 1X4 5000LM 80CRI 35K SWL MIN10 ZT MVOLT / 1X4SMKSH	36W LED	MVOLT	0-10V			
B1	5-IN DIA SURFACE MOUNTED LED DOWNLIGHT	LITHONIA	JSF 5IN 07LM 35K 90CRI MVOLT ZT WH ***	10W LED	MVOLT	0-10V			*** SELECT TRIM ACCESSORIES
B2	7-IN DIA SURFACE MOUNTED LED DOWNLIGHT	LITHONIA	JSF 7IN 10LM 35K 90CRI MVOLT ZT WH ***	13W LED	MVOLT	0-10V			*** SELECT TRIM ACCESSORIES
C	4-FT LINEAR LED VAPORTIGHT WITH 90-MIN EMERGENCY BATTERY	LITHONIA	FEM L48 6000LM IMAFL MD MVOLT GZ10 40K 80CRI E10WMCP	38W LED	MVOLT	0-10V			
D	EXTERIOR WALL MOUNTED ASYMMETRIC / INDIRECT LED	BEGA	33 361 ***	20W LED	MVOLT	0-10V			*** = SELECT FINISH
E	EXTERIOR 2.5-IN DIA ADJUSTABLE LED ACCENT	AURORA LIGHT	HRL16-60-12-WF-30 / W-BLP*	12W LED	12VAC	TRIAC via transformer		NOTE: FIXTURE TYPE 'EE' TO BE ON SEPARATE LV TRANSFORMER TO BE FED BY EM INVERTER	BLP* = CONFIRM FINISH / CONFIRM MOUNTING CONTRACTOR TO PROVIDE LOW-VOLTAGE TRANSFORMER(S)
EE	EXTERIOR 2.5-IN DIA ADJUSTABLE LED ACCENT ON 125W EM INVERTER	AURORA LIGHT	HRL16-60-12-WF-30 / W-BLP*	12W LED	12VAC	TRIAC via transformer			BLP* = CONFIRM FINISH / CONFIRM MOUNTING CONTRACTOR TO PROVIDE LOW-VOLTAGE TRANSFORMER(S)
F	EXTERIOR 1.75-IN DIA ADJUSTABLE LED ACCENT	AURORA LIGHT	HSL11-LM-60-6-W-30-P-TM-BLP*	6W LED	12VAC	TRIAC via transformer			BLP* = CONFIRM FINISH / CONFIRM MOUNTING CONTRACTOR TO PROVIDE LOW-VOLTAGE TRANSFORMER(S)
G	EXTERIOR 2.5-IN DIA ADJUSTABLE LED ACCENT	AURORA LIGHT	HSL16-LM-S-60-12-M-30-TM-BLP*	12W LED	12VAC	TRIAC via transformer			BLP* = CONFIRM FINISH / CONFIRM MOUNTING CONTRACTOR TO PROVIDE LOW-VOLTAGE TRANSFORMER(S)
H1	13-IN DIA OUTDOOR CEILING / SURFACE MOUNTED LED LUMINAIRE	KENALL	MR13FFL-PP-**-20L35K-DV-NAT-SA	20W LED	120V/277V	0-10V			** SELECT FINISH
H1E	13-IN DIA OUTDOOR CEILING / SURFACE MOUNTED LED LUMINAIRE W/ 90-MIN EM BATTERY	KENALL	MR13FFL-PP-**-20L35K-DV-LEL-SA-NAT	20W LED	120V/277V	0-10V			** SELECT FINISH
H2	17-IN DIA OUTDOOR CEILING / SURFACE MOUNTED LED LUMINAIRE	KENALL	MR17FFL-PP-**-25L35K-DV-NAT-SA	25W LED	120V/277V	0-10V			** SELECT FINISH
K	WALL MOUNTED EXTERIOR LED LUMINAIRE	BEGA	33 817 K3 ***	14W LED	120V/277V	0-10V			** SELECT FINISH
KE	WALL MOUNTED EXTERIOR LED LUMINAIRE ON 125W EM INVERTER	BEGA	33 817 K3 ***	14W LED	120V/277V	0-10V		FIXTURE TYPE 'KE' TO BE FED BY EM INVERTER	** SELECT FINISH
EM1	DUAL-HEAD ADJUSTABLE LED EMERGENCY	LITHONIA	ELM2L	3W LED	120V/277V	N/A			
EM2	FIXED OPTIC LED EMERGENCY	LITHONIA	ELM2LF	3W LED	120V/277V	N/A			
X	EDGE-LIT LED EXIT SIGN	EXITRONIX	S90* ** **	4W	120V/277V	N/A			SELECT LETTER COLOR, SINGLE or DOUBLE FACE, & FINISH
SITE									
S1	OUTDOOR LED STRING LIGHTS	ALUZ	A5-ZOZO-***-36-30K-GSF-DM-WET	.33W/FT LED	120V	TRIAC			*** SELECT CANOPY STYLE or NO CANOPY
S2	PRECAST CONCRETE LED BOLLARD	WAYNE TYLER	310CLED9W-*-27-UNV-**-**-**-**	9W LED	120V/277V	0-10V			* SELECT STRAIGHT or TAPERED BASE SELECT CONCRETE COLOR / TEXTURE, GRILLE COLOR, & OPTIONS
S3	EXTERIOR 2.5-IN DIA ADJUSTABLE LED ACCENT	AURORA LIGHT	HSL20-LM-60-12-W-30-F-TR-12-BLP*	12W LED	12VAC	TRIAC via transformer			BLP* = CONFIRM FINISH / CONFIRM MOUNTING CONTRACTOR TO PROVIDE LOW-VOLTAGE TRANSFORMER(S)
S4	EXTERIOR 1.75-IN DIA ADJUSTABLE LED ACCENT	AURORA LIGHT	HSL11-LM-60-6-M-30-F-TR-12-BLP*	6W LED	12VAC	TRIAC via transformer			BLP* = CONFIRM FINISH / CONFIRM MOUNTING CONTRACTOR TO PROVIDE LOW-VOLTAGE TRANSFORMER(S)
S5	POLE-MOUNTED OST TOP LED SITE LUMINAIRE	LITHONIA	RADPT LED P3 40K SYM MVOLT RADPT20 *** D****	54W LED	MVOLT	0-10V			*** = SELECT CONTROL OPTION(S) D**** SELECT FINISH
	13' DIRECT BURIED ALUMINUM POLE	HAPCO	13' X 4" DIA ROUND STRAIGHT ALUM POLE - DIRECT BURIED WITH 2.375" X 4" TENON	N/A					ENGINEER FOR 180MPH WIND SPEED SELECT FINISH

GENERAL NOTES:

1) integral low-voltage transformer / ballast / power supply - contractor to verify compatibility with dimming system
2) owner / architect to verify trim finish
3) include remote power supply - contractor to verify compatibility with dimming system
4) include all electrical and mounting accessories, connectors, etc.
5) dimensions are nominal: contractor to verify exact size prior to fabrication
6) COORDINATE ALL LIGHTING WITH POWER & LIGHTING SYSTEMS, INC.
7) PROVIDE ALL LIGHTING FIXTURES AS SPECIFIED. SUBSTITUTIONS WILL NOT BE ACCEPTED WITHOUT PRIOR APPROVAL FROM THE OWNER AND ARCHITECT.

Power & Lighting Systems, Inc.
HONESTY • INTEGRITY • SERVICE • SINCE 1958

Power & Lighting Systems, Inc.
Manufacturer's Representatives
Innovative Specification Systems
392 SW 12 Avenue
Deerfield Beach, FL 33442
phone: (954) 360-7608
fax: (954) 360-7633
website: http://p-ls.com/

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JLRD Job Number: 120133

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT 1971

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
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SL

DRAWN BY
MM

CHECKED BY
JAS

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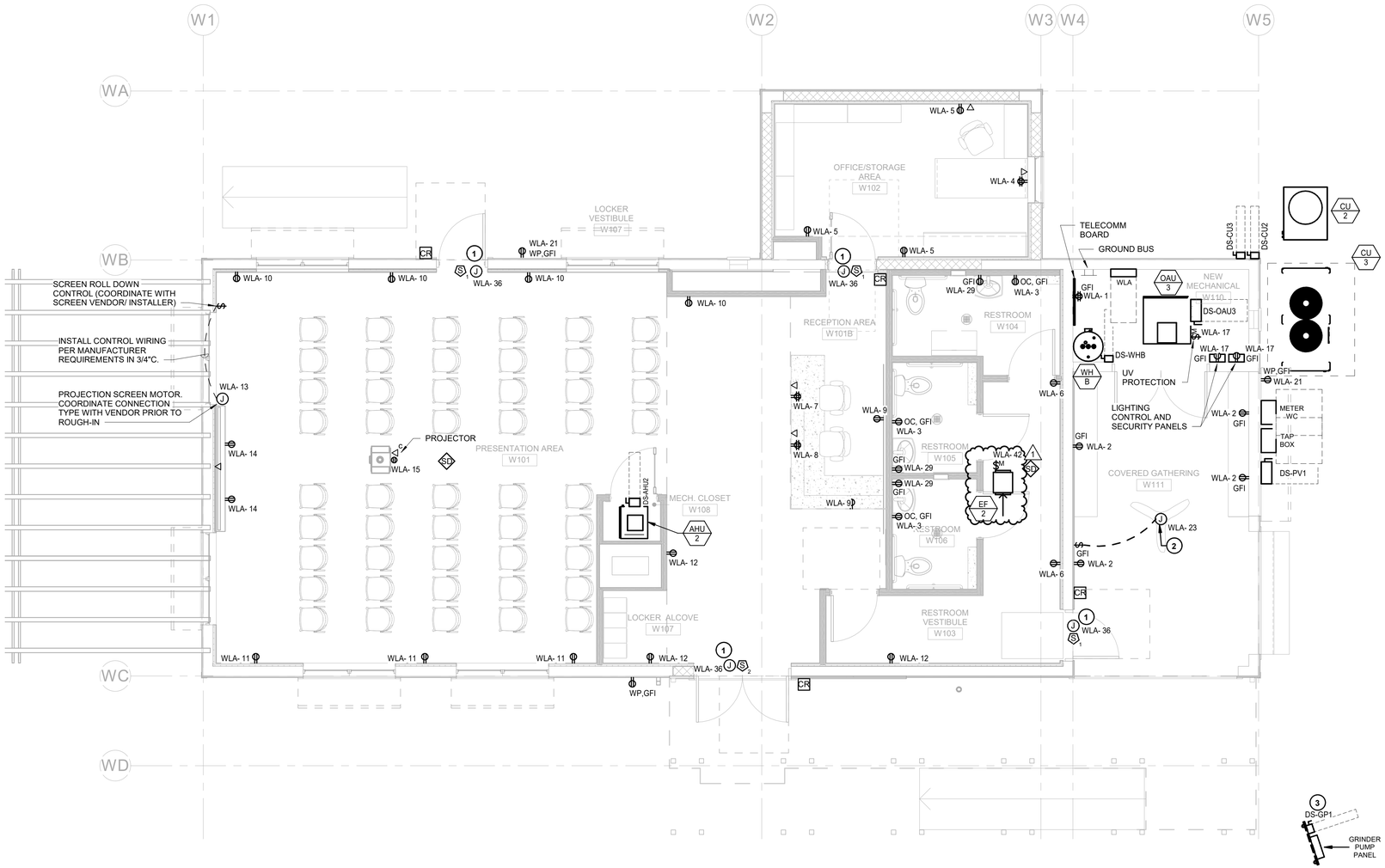

SCIENCE CENTER POWER PLAN - NEW WORK

1 / E2.20

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

GENERAL NOTES

1. REFER TO EQUIPMENT AND PANEL SCHEDULES FOR CIRCUITNG REQUIREMENTS.

PLAN NOTES

1. 120V FOR CARD ACCESS POWER SUPPLY.
2. 52" HAIKU OUTDOOR FAN: FR127A-S0-F1-0-3H03-00-470-504P010
3. GRIDER PUMP. COORDINATE LOCATION AND CONNECTION TYPE WITH PUMP PROVIDER/ INSTALLER.

BID DOCUMENTS

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Michael P. Linden, P.E. 58094

JLRD Job Number: 120133

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT 1971

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
N21002

VERIFY SCALES
0 — 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

1	Addendum #6	2022-12-22

DATE OF ISSUE
09/19/2022

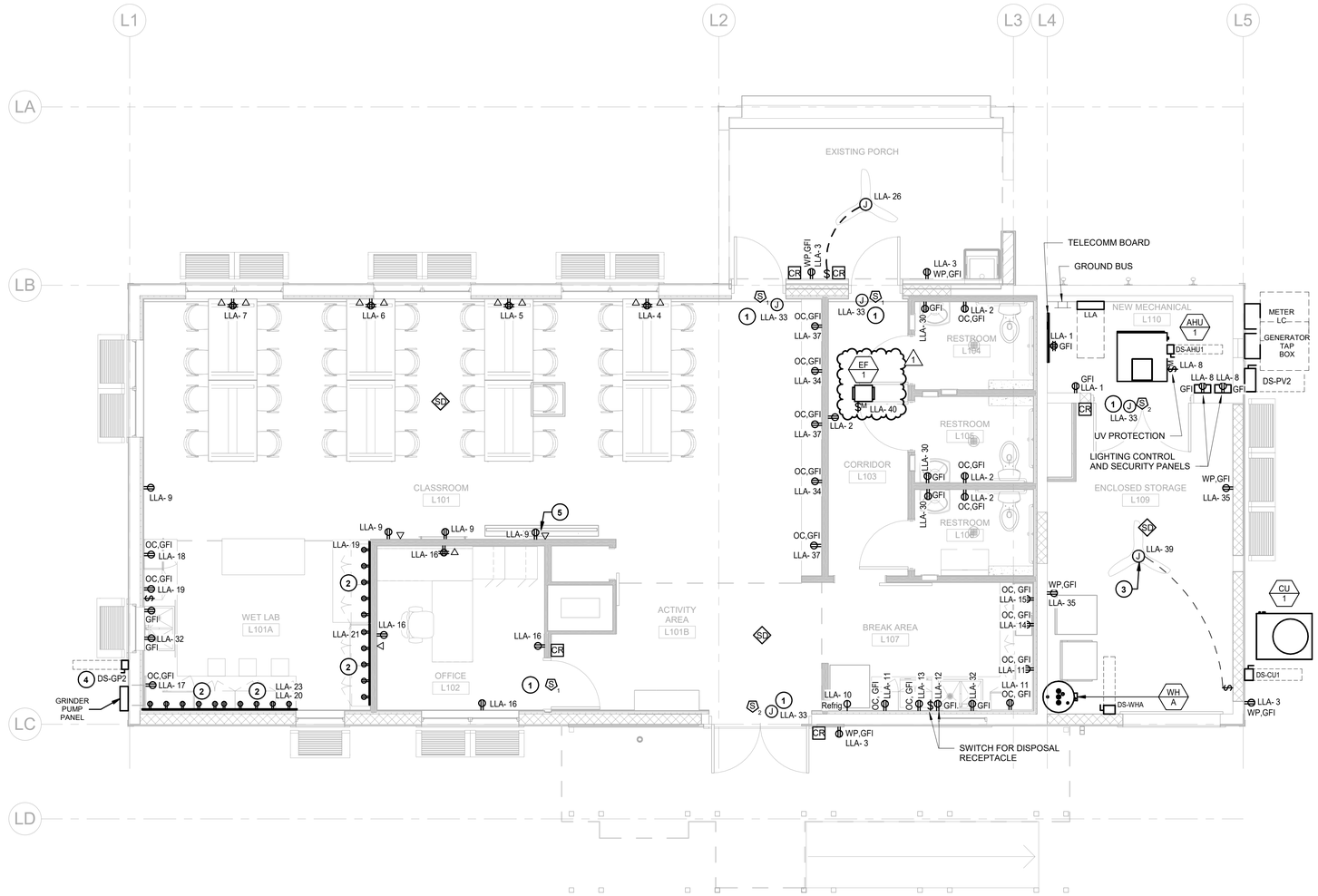
DESIGNED BY
SL

DRAWN BY
MM

CHECKED BY
JAS

DRAWING TITLE
POWER AND SYSTEMS PLAN - SCIENCE CENTER

DRAWING NUMBER
E2.20



POWER NEW WORK PLAN - SCIENCE CLASSROOM

1 / E2.21

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

GENERAL NOTES

1. REFER TO EQUIPMENT AND PANEL SCHEDULES FOR CIRCUITNG REQUIREMENTS.

PLAN NOTES

1. 120V FOR CARD ACCESS POWER SUPPLY.
2. PROVIDE RECEPTACLES IN ALUMINUM DUAL CHANNEL WIREMOLD MODEL #S4000 (OR EQUAL). WIRE CIRCUIT TO GFI CIRCUIT BREAKER. PROVIDE 1" CONDUIT FROM FROM COMMUNICATIONS CHANNEL TO TELEPHONE BACKBOARD LOCATION.
3. 52" HAIKU OUTDOOR FAN: FR127A-S0-F1-0-3H03-00-470-504P010
4. GRIDER PUMP. COORDINATE LOCATION AND CONNECTION TYPE WITH PUMP PROVIDER/ INSTALLER.
5. GRIDER PUMP. COORDINATE LOCATION AND CONNECTION TYPE WITH PUMP PROVIDER/ INSTALLER.

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DRAWING TITLE

POWER AND SYSTEMS PLAN - SCIENCE CLASSROOM

DRAWING NUMBER

E2.21

Branch Panel: WLA

Location:
Supply From: UTILITY
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 14,000
Mains Type: WLA
Mains Rating: 400 A
MCB Rating: 400 A

CKT	Load Name	Trip	Poles	A	B	A	B	Poles	Trip	Load Name	CKT
1	RECEPTACLES - MECH RM W110	20 A	1	0.36 kVA		0.72 kVA		1	20 A	RECEPTACLES - EXTERIOR	2
3	RECEPTACLES - RESTROOMS	20 A	1		0.54 kVA		0.36 kVA	1	20 A	RECEPTACLES - OFFICE/ STORAGE W102	4
5	RECEPTACLES - OFFICE/ STORAGE W102	20 A	1	0.54 kVA		0.36 kVA		1	20 A	RECEPTACLES - CONVENIENCE	6
7	RECEPTACLES - RECEPTION	20 A	1		0.36 kVA		0.36 kVA	1	20 A	RECEPTACLES - RECEPTION	8
9	RECEPTACLES - RECEPTION	20 A	1	0.36 kVA		0.72 kVA		1	20 A	RECEPTACLES - PRESENTATION AREA	10
11	RECEPTACLES - PRESENTATION AREA	20 A	1		0.54 kVA		0.54 kVA	1	20 A	RECEPTACLES - CONVENIENCE	12
13	PROJECTION SCREEN	20 A	1	0.60 kVA		0.36 kVA		1	20 A	RECEPTACLES - PRESENTATION AREA	14
15	PROJECTOR	20 A	1		0.60 kVA		0.60 kVA	2	15 A	CU-3	16
17	SECURITY / LIGHTING CONTROL PANELS	20 A	1	0.36 kVA		0.60 kVA		--	--	--	18
19	SITE LIGHTING	20 A	1		0.38 kVA		11.15...	2	125 A	OAU-3	20
21	RECEPTACLES - EXTERIOR	20 A	1	0.36 kVA		11.15...		--	--	--	22
23	EXTERIOR LIGHTING	20 A	1		0.34 kVA		3.96 kVA	2	35 A	CU-2	24
25	WATER HEATER B	40 A	2	1.00 kVA		3.96 kVA		--	--	--	26
27	--	--	--		1.00 kVA		6.71 kVA	2	70 A	AHU-2	28
29	RESTROOM SINK SENSORS	20 A	1	0.54 kVA		6.71 kVA		--	--	--	30
31	INTERIOR LIGHTING	20 A	1		0.76 kVA		0.10 kVA	2	20 A	GATE POWER	32
33	BOLLARD LIGHTING	20 A	1	0.22 kVA		0.10 kVA		--	--	--	34
35	TREE LIGHITNG	20 A	1		0.16 kVA		0.80 kVA	1	20 A	ACCESS CONTROL	36
37	SIGN LIGHTING	20 A	1	0.04 kVA		1.80 kVA		2	30 A	GRINDER PUMP #1	38
39	STRING LIGHTING	20 A	1		0.04 kVA		1.80 kVA	--	--	--	40
41	EV CHARGING STATION	50 A	2	4.80 kVA		0.08 kVA		1	20 A	EF-2	42
43	--	--	--		4.80 kVA		0.00 kVA	1	20 A	SPARE	44
45	SPARE	20 A	1	0.00 kVA		0.00 kVA		1	20 A	SPARE	46
47	SPARE	20 A	1		0.00 kVA		0.00 kVA	1	20 A	SPARE	48
49	SPARE	20 A	1	0.00 kVA		0.00 kVA		1	20 A	SPARE	50
51	SPARE	20 A	1		0.00 kVA		0.00 kVA	1	20 A	SPARE	52
53	SPARE	20 A	1	0.00 kVA		0.00 kVA		1	20 A	SPARE	54
55	SPARE	20 A	1		0.00 kVA		0.00 kVA	1	20 A	SPARE	56
57	SPARE	20 A	1	0.00 kVA		0.00 kVA		2	20 A	SPD	58
59	SPARE	20 A	1		0.00 kVA		0.00 kVA	--	--	--	60
		Total Load:		35719 VA		35873 VA					
		Total Amps:		298 A		299 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	43632 VA	100.00%	43632 VA		
Lighting	431 VA	125.00%	538 VA	**Total Conn. Load:**	71.6 kVA
Lighting - Dwelling Unit	463 VA	100.00%	463 VA	**Total Est. Demand:**	69.1 kVA
Lighting - Exterior	220 VA	125.00%	275 VA	**Total Conn.:**	298.30 A
Other	885 VA	100.00%	885 VA	**Total Est. Demand:**	288 A
Power	18015 VA	100.00%	18015 VA		
RECEPTACLES	7440 VA	65.00%	4836 VA		
KITCHEN	540 VA	90.00%	486 VA		

Notes:
1. PROVIDE WITH SUB-FEED LUGS.

Branch Panel: LLA

Location: NEW MECHANICAL L110
Supply From:
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating: 14,000
Mains Type: LLA
Mains Rating: 225 A
MCB Rating: 200 A

CKT	Load Name	Trip	Poles	A	B	A	B	Poles	Trip	Load Name	CKT
1	RECEPTACLES - MECHANCAL ROOM L110	20 A	1	0.54 kVA		0.72 kVA		1	20 A	RECEPTACLES - RESTROOMS	2
3	RECEPTACLES - EXTERIOR	20 A	1		0.72 kVA		0.36 kVA	1	20 A	RECEPTACLES - CLASSROOM L101	4
5	RECEPTACLES - CLASSROOM L101	20 A	1	0.36 kVA		0.36 kVA		1	20 A	RECEPTACLES - CLASSROOM L101	6
7	RECEPTACLES - CLASSROOM L101	20 A	1		0.36 kVA		0.36 kVA	1	20 A	RECEPTACLES - SECURITY PANEL	8
9	RECEPTACLES - CLASSROOM L101	20 A	1	0.72 kVA		0.50 kVA		1	20 A	REFRIGERATOR	10
11	RECEPTACLE - BREAK AREA L107	20 A	1		0.54 kVA		0.40 kVA	1	20 A	DISHWASHER/ DISPOSAL	12
13	RECEPTACLE - BREAK AREA L107	20 A	1	0.18 kVA		1.00 kVA		1	20 A	TOASTER OVEN - BREAK AREA L107	14
15	MICROWAVE - BREAK AREA L107	20 A	1		1.00 kVA		0.90 kVA	1	20 A	RECEPTACLES - OFFICE L102	16
17	TOASTER OVEN - WET LAB L101A	20 A	1	1.00 kVA		1.00 kVA		1	20 A	MICROWAVE - BREAK AREA L101A	18
19	RECEPTACLES - WET LAB L101A	20 A	1		0.18 kVA		0.00 kVA	1	20 A	RECEPTACLES - WET LAB L101A	20
21	RECEPTACLES - WET LAB L101A	20 A	1	0.00 kVA		5.00 kVA		2	70 A	WATER HEATER A	22
23	RECEPTACLES - WET LAB L101A	20 A	1		0.00 kVA		5.00 kVA	--	--	--	24
25	CU-1	70 A	2	7.26 kVA		0.29 kVA		1	20 A	EXTERIOR LIGHTING	26
27	--	--	--		7.26 kVA		0.70 kVA	1	20 A	LIGHTING	28
29	AHU-1	70 A	2	0.94 kVA		0.54 kVA		1	20 A	RESTROOM SINK SENSORS	30
31	--	--	--		0.94 kVA		0.36 kVA	1	20 A	LAB & BREAK ROOM SINK SENSOR	32
33	ACCESS CONTROL	20 A	1	0.80 kVA		0.36 kVA		1	20 A	RECEPTACLES - CLASSROOM L101	34
35	RECEPTACLES - ENCLOSED STORAGE L109	20 A	1		0.36 kVA		1.80 kVA	2	30 A	GRINDER PUMP #2	36
37	RECEPTACLES - CLASSROOM L101	20 A	1	0.54 kVA		1.80 kVA		--	--	--	38
39	SERVICE FAN - STORAGE L109	20 A	1		0.02 kVA		0.08 kVA	1	20 A	EF-1	40
41	SHED POWER	20 A	1	1.70 kVA		0.00 kVA		1	20 A	SPARE	42
43	SPARE	20 A	1		0.00 kVA		0.00 kVA	1	20 A	SPARE	44
45	SPARE	20 A	1	0.00 kVA		0.00 kVA		1	20 A	SPARE	46
47	SPARE	20 A	1		0.00 kVA		0.00 kVA	1	20 A	SPARE	48
49	SPARE	20 A	1	0.00 kVA		0.00 kVA		1	20 A	SPARE	50
51	SPARE	20 A	1		0.00 kVA		0.00 kVA	1	20 A	SPARE	52
53	SPARE	20 A	1	0.00 kVA		0.00 kVA		1	20 A	SPARE	54
55	SPARE	20 A	1		0.00 kVA		0.00 kVA	1	20 A	SPARE	56
57	SPARE	20 A	1	0.00 kVA		0.00 kVA		2	20 A	SPD	58
59	SPARE	20 A	1		0.00 kVA		0.00 kVA	--	--	--	60
		Total Load:		25594 VA		21326 VA					
		Total Amps:		213 A		178 A					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
HVAC	10000 VA	100.00%	10000 VA		
Lighting	160 VA	125.00%	200 VA	**Total Conn. Load:**	46.9 kVA
Lighting - Dwelling Unit	441 VA	100.00%	441 VA	**Total Est. Demand:**	42.3 kVA
Other	435 VA	100.00%	435 VA	**Total Conn.:**	195.50 A
Power	22545 VA	100.00%	22545 VA	**Total Est. Demand:**	176 A
RECEPTACLES	9740 VA	65.00%	6331 VA		
KITCHEN	3620 VA	65.00%	2353 VA		

Notes:
1. PROVIDE WITH SUB-FEED LUGS.

PROVIDE GFI CIRCUIT BREAKER

GENERAL NOTE

UPON COMPLETION OF JOB, RECEPTACLE LOCATIONS TO BE SHOWN IN PANEL SCHEDULE LOAD DESCRIPTION BY THE CONTRACTOR.

TYPICAL BRANCH CIRCUIT WIRE AND CONDUIT SCHEDULE

BREAKER TRIP	CONDUCTOR AWG	GROUND AWG	CONDUIT
20A	12	12	3/4"C
25A	10	10	3/4"C
30A	10	10	3/4"C
35A	8	10	1"C
40A	8	10	1"C
45A	8	10	1"C
50A	8	10	1"C
60A	6	8	1-1/4"C
70A	4	8	1-1/4"C
80A	4	8	1-1/4"C
90A	3	8	1-1/2"C
100A	3	8	1-1/2"C

1. CONTRACTOR TO ADJUST SIZES PER FIELD INSTALLED LENGTHS TO MAINTIAN A MAXIMUM VOLTAGE DROP OF 3%.
2. PROVIDE CONDUCTORS PER BREAKER POLES; INCLUDE NEUTRAL FOR ALL 1PH AND 3PH LOADS AS REQUIRED.

PANEL WLA	PANEL LLA
-	-
-	-

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LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
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VERIFY SCALES
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PANELBOARD SCHEDULES

DRAWING NUMBER
E4.01

CONCRETE MASONRY

A. MANUFACTURE AND INSTALL ALL CONCRETE MASONRY IN ACCORDANCE WITH DIVISION 04 SPECIFICATIONS. ALL MASONRY DESIGN SHALL CONFORM TO TMS 402 AND ALL MASONRY CONSTRUCTION SHALL CONFORM TO TMS 602.
B. ALL LOAD-BEARING, NON-LOAD-BEARING, AND BACKUP WALL CONCRETE MASONRY UNIT CONSTRUCTION SHALL CONFORM TO THE FOLLOWING MATERIAL STANDARDS:
   1. CONCRETE MASONRY UNITS: ASTM C90, NORMAL WEIGHT (135 PCF)
   2. MORTAR: ASTM C270, TYPE 'S' OR 'M' PORTLAND CEMENT/LIME ONLY (USE TYPE 'M' MORTAR WHEN MASONRY IS IN DIRECT CONTACT WITH SOIL; TYPE 'S' IS IN ALL OTHER CONDITIONS)
   3. GROUT: ASTM C476
   4. PORTLAND CEMENT: ASTM C150, TYPE I (TYPE III MAY BE USED FOR COLD-WEATHER CONSTRUCTION)
   5. HYDRATED LIME: ASTM C207, TYPE 'S'
   6. AGGREGATE: ASTM C404 (FOR GROUT)
   7. STEEL REINFORCEMENT: ASTM A615, GRADE 60
   8. JOINT REINFORCEMENT: ASTM A1064, TRUSS OR LADDER TYPE, GALVANIZE PER ASTM A153, TYPE B-2
C. CONCRETE MASONRY UNITS:
   1. F'_M SHALL BE 2000 PSI (MINIMUM NET AREA CMU COMPRESSIVE STRENGTH SHALL BE 2000 PSI).
   2. LAY CONCRETE MASONRY UNITS IN RUNNING BOND UNLESS NOTED OTHERWISE WITH UNITS DESIGNED TO ALIGN WITH WEBS IN EACH COARSE.
D. MORTAR:
   1. HEAD AND BED JOINTS SHALL BE 3/8 INCHES FOR THE THICKNESS OF THE FACE SHELL. WEBS ARE TO BE FULLY MORTARED IN ALL COURSES OF: PIERS, COLUMNS AND PILASTERS, IN THE STARTING COURSE, AND WHERE AN ADJACENT CELL IS TO BE GROUTED. REMOVE MORTAR PROTRUSIONS EXTENDING ½ INCHES OR MORE INTO CELLS TO BE GROUTED.
   2. PROVIDE FULL FACE SHELL MORTAR COVERAGE ON MASONRY UNIT HORIZONTAL AND VERTICAL (BED AND HEAD) FACE SHELL JOINTS.
E. GROUT:
   1. MASONRY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28-DAYS.
   2. GROUT MIX SHALL CONTAIN PORTLAND CEMENT, AGGREGATE, AND A GROUT-ENHANCING SHRINKAGE-COMPENSATING ADMIXTURE.
   3. MAXIMUM SIZE OF AGGREGATE SHALL BE 3/8 INCH. SLUMP SHALL BE 8 TO 11 INCHES. WATER REDUCING ADMIXTURES MAY BE USED.
   4. GROUT ALL MASONRY CONTAINING REINFORCEMENT, ALL CELLS OF 4-HOUR RATED WALLS, AND WHERE INDICATED ON THE DRAWINGS. ALLOW MORTAR TO CURE 24 HOURS PRIOR TO GROUTING. PROVIDE CLEANOUT OPENINGS AT THE BASE OF THE CELLS CONTAINING REINFORCEMENT TO CLEAN THE CELL AND TO TIE THE VERTICAL BAR TO THE DOWEL. IN HIGH-LIFT GROUTING, USE 5'-0" (MAXIMUM) LIFTS, WITH ½ HOUR TO 1 HOUR BETWEEN LIFTS.
   5. GROUT SHALL BE VIBRATED WHILE PLACING TO ENSURE THAT CELLS ARE COMPLETELY FILLED.
F. STEEL REINFORCEMENT:
   1. PROVIDE VERTICAL REINFORCEMENT IN CELLS OF CONCRETE MASONRY UNITS (FULLY EMBEDDED IN GROUT) AS SHOWN ON THE PLANS AND OTHER DETAILS. MINIMUM REINFORCEMENT OF EXTERIOR MASONRY SHALL BE AS FOLLOWS:
      a. 1-#5 AT A MAXIMUM SPACING OF 48 INCHES
      b. 1-#5 AT EACH CORNER
      c. HEAVIER REINFORCEMENT MAY BE REQUIRED BY PLAN NOTES OR DETAILS IN THE DRAWINGS.
   2. REINFORCE WALLS WHERE INDICATED ON THE DRAWINGS AND AT ALL INTERSECTIONS, EACH SIDE OF OPENINGS AND AT THE ENDS OF WALLS. USE BAR SPACERS AT 10 FEET ON CENTER WHERE GROUT POUR HEIGHT EXCEEDS 10 FEET.
   3. ALL VERTICAL REINFORCEMENT SHALL HAVE STANDARD HOOK INTO BOND BEAM. TERMINATE AT HIGHEST BOND BEAM IF MASONRY DOES NOT EXTEND TO ROOF OR GROUTED CELL IS NOT CONTINUOUS TO ROOF. HOOK SHALL EXTEND TO THE UPPERMOST HORIZONTAL REINFORCEMENT OF THE BOND BEAM AND HAVE A MINIMUM EMBEDMENT OF 6 INCHES.
   4. ALL HORIZONTAL REINFORCEMENT AT ENDS OF BOND BEAMS SHALL HAVE STANDARD HOOK INTO VERTICAL GROUTED CELL. PROVIDE CORNER BARS SUCH THAT HORIZONTAL REINFORCEMENT IS CONTINUOUS AROUND CORNERS.
   5. COVER TO STEEL REINFORCEMENT WITHIN MASONRY ELEMENTS SHALL NOT BE LESS THAN THE FOLLOWING:
      a. EXPOSED TO EARTH OR WEATHER: 1 ½ INCHES (#5 AND SMALLER BARS), 2 INCHES (#6 AND LARGER BARS)
      b. NOT EXPOSED TO EARTH OR WEATHER: 1 ½ INCHES
G. JOINT REINFORCEMENT:
   1. JOINT REINFORCEMENT SHALL BE LADDER TYPE, 9 GAUGE, SPACED VERTICALLY AT EVERY 2 COURSES UNLESS NOTED OTHERWISE.
   2. PROVIDE JOINT REINFORCEMENT SPACED VERTICALLY AT EVERY COURSE FOR MASONRY BELOW GRADE AND IN PARAPETS AND CANTILEVERED WALLS.
   3. PROVIDE TWO ROWS OF JOINT REINFORCEMENT AT EVERY COURSE AT TOP AND BOTTOM OF OPENINGS (EXTEND 24 INCHES EACH SIDE).
   4. PROVIDE TWO ROWS OF JOINT REINFORCEMENT AT EVERY COURSE AT BOND BEAMS.
   5. OVERLAP DISCONTINUOUS JOINT REINFORCEMENT BY AT LEAST 6 INCHES.
   6. USE PREFABRICATED CORNERS AND TEES.
   7. EXTEND JOINT REINFORCEMENT A MINIMUM OF 4 INCHES INTO THE TIE BEAM.
   8. REFER TO PLANS AND DETAILS FOR BONDED JOINT REQUIREMENTS AT WALL CORNERS AND INTERSECTIONS. WHERE INDICATED ON DRAWINGS, INTERLOCK WALLS WITH METAL TIES, ANCHORS, OR PREFABRICATED JOINT REINFORCEMENT UNLESS NOTED OTHERWISE ON DRAWINGS OR SEE SPECIFICATIONS.
   9. LONGITUDINAL WIRES OF JOINT REINFORCEMENT SHALL BE FULLY EMBEDDED IN MORTAR OR GROUT WITH A MINIMUM HORIZONTAL EDGE COVER OF 5/8 INCHES WHEN EXPOSED TO EARTH AND WEATHER AND ½ INCHES WHEN NOT EXPOSED TO EARTH OR WEATHER.
H. REINFORCED MASONRY WALL CONSTRUCTION SHALL BE INSPECTED BY AN ENGINEER OR ARCHITECT IN ACCORDANCE WITH TMS 602.
I. WHERE ANCHOR BOLTS, WEDGE ANCHORS, OR ANCHORS SET IN EPOXY ARE PLACED IN A MASONRY WALL, FILL CELLS WITH GROUT FOR BOLTED COURSE, ONE COURSE ABOVE AND TWO COURSES BELOW.
J. USE PRESSURE-TREATED WOOD FOR WOOD IN CONTACT WITH MASONRY.
K. CALCIUM CHLORIDE SHALL NOT BE USED IN MORTAR OR GROUT.
L. REFER TO ARCHITECT'S DRAWINGS FOR THE EXTENT OF MASONRY WALLS AND DIMENSIONED LOCATION OF OPENINGS. NON-LOAD BERING WALLS MAY NOT BE SHOWN ON THE STRUCTURAL DRAWINGS.
M. CONCRETE MASONRY UNITS SHALL BE CUT BELOW BEAMS, LINTELS, OR BOND BEAMS AS REQUIRED IN ORDER TO SET CONTINUOUS BEAM, LINTEL, OR BOND BEAMS AT THE PROPER ELEVATION.
N. ALL CELLS BELOW GRADE AND SLAB-ON-GROUND SHALL BE FULLY GROUTED.
O. THE FOLLOWING CRITERIA REGARDING PIPES AND CONDUITS EMBEDDED IN MASONRY SHALL BE ADHERED TO (SEE MEP DRAWINGS FOR LOCATIONS OF SLEEVES, PIPES, CONDUIT, ACCESSORIES, ETC). THESE CRITERIA WILL BE STRICTLY ENFORCED:
   1. CONDUITS, PIPES, AND SLEEVES OF ANY MATERIAL NOT HARMFUL TO MASONRY AND MEETING THE CRITERIA BELOW SHALL BE PERMITTED TO BE EMBEDDED IN MASONRY. ALL OTHER CONDUITS, PIPES, AND SLEEVES SHALL NOT BE EMBEDDED WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
   2. CONDUITS AND PIPES OF ALUMINUM SHALL NOT BE EMBEDDED IN STRUCTURAL MASONRY.
   3. CONDUITS, PIPES, AND SLEEVES PASSING THROUGH A WALL SHALL NOT SIGNIFICANTLY IMPAIR THE STRENGTH OF THE CONSTRUCTION. CONDUITS, PIPES, AND SLEEVES SHALL NOT PASS THROUGH JAMBS, LINTELS, BOND BEAMS, OR SHEAR WALLS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.
   4. CONDUITS AND PIPES SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS OR WIDTHS ON CENTER.
   5. CONDUITS AND PIPES SHALL BE FABRICATED AND INSTALLED SO THAT CUTTING, BENDING, OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
   6. CONDUITS AND PIPES, WITH FITTINGS, EMBEDDED WITHIN A COLUMN OR WALL SHALL NOT DISPLACE MORE THAN 2 PERCENT OF THE NET SECTION OR AS REQUIRED BY FIRE PROTECTION.
P. ALL MASONRY WALLS SHOWN ON THE STRUCTURAL DRAWINGS HAVE BEEN DESIGNED TO RESIST THE REQUIRED CODE VERTICAL AND LATERAL FORCES IN THE FINAL CONSTRUCTED CONFIGURATION ONLY ASSUMING FULL BRACING TOP, BOTTOM, AND/OR SIDE OF WALL AS SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY AND ADEQUATELY BRACE ALL MASONRY WALLS AT ALL STAGES DURING CONSTRUCTION TO RESIST ERECTION LOADS AND LATERAL LOADS THAT COULD OCCUR PRIOR TO THE COMPLETION OF CONSTRUCTION.
Q. CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE MASONRY CONSTRUCTION. REFER TO TYPICAL CONTROL JOINT DETAIL FOR GUIDELINES AND SPACING.

POST-INSTALLED ANCHORS

A. POST-INSTALLED ANCHORS SHALL INCLUDE MECHANICAL, SCREW, AND ADHESIVE ANCHORS OF SIZE, NUMBER, AND SPACING AS SHOWN ON THE STRUCTURAL DRAWINGS. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE STRUCTURAL DRAWINGS.
B. MECHANICAL ANCHORS (EXPANSION ANCHORS/EXPANSION BOLTS) INTO EXISTING CONCRETE AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING PRODUCTS:
   1. KWIK BOLT TZ ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. STRONG-BOLT 2 ANCHORS MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. POWER-STUD+ SD2 ANCHORS MANUFACTURED BY DEWALT
C. MECHANICAL ANCHORS (EXPANSION ANCHORS/EXPANSION BOLTS) INTO EXISTING CONCRETE MASONRY AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING PRODUCTS:
   1. KWIK BOLT 3 ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. WEDGE-ALL ANCHORS MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. POWER-STUD+ SD1 ANCHORS MANUFACTURED BY DEWALT
D. SCREW ANCHORS INTO EXISTING CONCRETE AND CONCRETE MASONRY AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING PRODUCTS:
   1. KWIK HUS EZ ANCHORS MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. TITEN HD ANCHORS MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. SCREW-BOLT+ ANCHORS MANUFACTURED BY DEWALT
E. ADHESIVE ANCHORS (EPOXY ANCHORS/DRILL & EPOXY) INTO EXISTING CONCRETE AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING ADHESIVE PRODUCTS:
   1. HIT-HY200 EPOXY ADHESIVE WITH HAS ROD MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. AT-XP ADHESIVE MANUFACTURED BY SIMPSON STRONGTIE COMPANY WITH AN ALL-THREAD F1554 GRADE 36 STEEL ROD
   3. PURE110+ EPOXY ADHESIVE MANUFACTURED BY DEWALT WITH AN ALL-THREAD F1554 GRADE 36 STEEL ROD
F. ADHESIVE ANCHORS (EPOXY ANCHORS/DRILL & EPOXY) INTO EXISTING CONCRETE MASONRY AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING ADHESIVE PRODUCTS:
   1. HIT-HY70 INJECTION ADHESIVE WITH HAS ROD MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. AT-XP ADHESIVE MANUFACTURED BY SIMPSON STRONGTIE COMPANY WITH AN ALL-THREAD F1554 GRADE 36 STEEL ROD
   3. AC100+ GOLD MANUFACTURED BY DEWALT WITH AN ALL-THREAD F1554 GRADE 36 STEEL ROD
G. ADHESIVE FOR ANCHORING REINFORCING BARS (REBAR) INTO EXISTING CONCRETE AS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE ONE OF THE FOLLOWING ADHESIVE PRODUCTS:
   1. HIT-HY200 EPOXY ADHESIVE MANUFACTURED BY HILTI FASTENING SYSTEMS
   2. AT-XP ADHESIVE MANUFACTURED BY SIMPSON STRONGTIE COMPANY
   3. PURE110+ EPOXY ADHESIVE MANUFACTURED BY DEWALT
H. THE GENERAL CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
I. SUBSTITUTION REQUESTS FOR ALTERNATIVE PRODUCTS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER. CALCULATIONS SHALL SHOW THAT THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE REFERENCED BUILDING CODE.
J. ALTERNATIVE PRODUCTS SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD FOR APPROVAL SHALL HAVE A VALID RESEARCH REPORT, ALSO KNOWN AS EVALUATION REPORT, INDICATING COMPLIANCE WITH APPROPRIATE ACCEPTANCE CRITERIA REQUIRED BY THE REFERENCED BUILDING CODE FOR THE INTENDED LOAD TYPE AND USE (E.G. WIND, SEISMIC, SUSTAINED TENSION, ETC). ALTERNATIVE PRODUCTS SUBMITTED SHALL INDICATE THAT THE ANCHOR IS PERMITTED FOR RESISTING LOADS IN CRACKED CONCRETE. RESEARCH REPORTS SHALL BE ISSUED BY A SOURCE APPROVED BY THE AUTHORITY HAVING JURISDICTION.
K. LOCATE, BY NON-DESTRUCTIVE MEANS, ALL EXISTING REINFORCEMENT, AND AVOID DURING INSTALLATION OF ANCHORS. IF EXISTING REINFORCEMENT LAYOUT PROHIBITS THE INSTALLATION OF ANCHORS AS INDICATED ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IMMEDIATELY.
L. HOLES SHALL BE DRILLED AND CLEANED, AND ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. DEFECTIVE OR ABANDONED HOLES SHALL BE FILLED WITH NON-SHRINK GROUT OR AN INJECTABLE ADHESIVE MATCHING THE ADJACENT CONCRETE COMPRESSIVE STRENGTH.
M. HOT DIPPED GALVANIZED STEEL ANCHORS SHALL BE USED AT ALL EXTERIOR LOCATIONS AND WHERE SPECIFICALLY INDICATED ON THE DRAWINGS.
N. MASONRY ANCHORS SHALL NOT BE INSTALLED IN HOLLOW CORE MASONRY. IF INSTALLATION INTO HOLLOW CORE MASONRY IS DESIRED, SUBMIT ALTERNATIVE PRODUCT FOR REVIEW AND APPROVAL BY THE STRUCTURAL ENGINEER OF RECORD.
O. MASONRY ANCHORS SHALL NOT BE INSTALLED IN HEAD JOINTS.
P. IN ADDITION TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, THE FOLLOWING GUIDELINES SHALL BE FOLLOWED FOR INSTALLATION OF ADHESIVE ANCHORS:
   1. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,500 PSI AT THE TIME OF INSTALLATION UNLESS HIGHER STRENGTH IS REQUIRED PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
   2. ADHESIVE ANCHORS SHALL BE INSTALLED IN DRY CONCRETE, AND DURING DRY CONDITIONS.
   3. ADHESIVE ANCHORS SHALL BE INSTALLED IN HOLES PREDRILLED WITH A CARBIDE TIPPED DRILL BIT.
   4. ADHESIVE ANCHORS SHALL BE INSTALLED WITHIN THE TEMPERATURE RANGE SPECIFIED IN THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS, BUT NOT OUTSIDE OF THE DESIGN TEMPERATURE RANGE. LOADS SHALL NOT BE APPLIED TO ADHESIVE ANCHORS UNTIL THE FULL CURING TIME ASSOCIATED WITH THE INSTALLATION TEMPERATURE HAS ELAPSED.
Q. INSTALLATION OF ADHESIVE ANCHORS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM. CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT.
R. SPECIAL INSPECTIONS SHALL BE PROVIDED FOR POST-INSTALLED ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS AND/OR EVALUATION REPORTS, UNLESS MORE SPECIFIC REQUIREMENTS ARE SPECIFIED IN THE CONSTRUCTION DOCUMENTS.
S. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO RESIST SUSTAINED TENSILE LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM.
T. CONTINUOUS INSPECTION SHALL BE PROVIDED FOR ADHESIVE ANCHORS INSTALLED IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSILE LOADS.
U. ADHESIVE ANCHORS SHALL BE PROOF TESTED AS REQUIRED IN THE SPECIFICATIONS. EACH TYPE AND SIZE OF ANCHOR SHALL BE PROOF TESTED IN TENSION BY AN INDEPENDENT TESTING LABORATORY. TENSION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM E488 AND ACI 355.4. THE INDEPENDENT TESTING LABORATORY SHALL SUBMIT AN ANCHORAGE TESTING PLAN TO THE STRUCTURAL ENGINEER OF RECORD TO ENSURE THE TESTING REQUIREMENTS ARE FULFILLED.
V. PROOF LOADING SHALL BE PERFORMED AFTER THE 28-DAY CONCRETE CURING PERIOD AND AFTER THE MINIMUM EPOXY CURING PERIOD SPECIFIED BY THE MANUFACTURER. PROOF LOADING SHALL BE PERFORMED ON PRODUCTION ANCHORS; SACRIFICIAL ANCHORS SHALL NOT BE CONSIDERED ACCEPTABLE. MAINTAIN THE PROOF LOAD AT THE REQUIRED LOAD LEVEL FOR A MINIMUM OF 10 SECONDS.
W. ANCHORS SHALL HAVE NO VISIBLE INDICATIONS OF DISPLACEMENT OR DAMAGE DURING OR AFTER PROOF LOAD APPLICATION. CONCRETE CRACKING IN THE VICINITY OF THE ANCHOR AFTER LOADING SHALL BE CONSIDERED A FAILURE.
X. IF MORE THAN 25 PERCENT OF THE TESTED ANCHORS FAIL TO ACHIEVE THE SPECIFIED PROOF LOAD WITHIN THE LIMITS DEFINED IN THESE NOTES, 100% OF THE ANCHORS OF THE SAME DIAMETER AND TYPE AS THE FAILED ANCHOR SHALL BE PROOF TESTED.
Y. IN THE EVENT OF FAILURE TO ACHIEVE PROOF LOAD OR EXCESSIVE DISPLACEMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO THE CONCRETE.
Z. HOLE DRILLING AND INSTALLATION OF ADHESIVE ANCHORS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. ANCHORS SHALL BE INSTALLED IN CONCRETE DRY CONDITION.

WOOD FRAMING

A. UNLESS NOTED OTHERWISE, USE SOUTHERN YELLOW PINE (E=1400 KSI MIN.) 19% MAXIMUM. MOISTURE CONTENT, AS FOLLOWS:
   1. BEAMS, HEADERS NO. 1 △1
   2. LOAD BEARING STUDS, & EXTERIOR STUDS NO. 1
   3. JOISTS, PURLINS NO. 1
   4. SUB-PURLINS, PLATES, BLOCKING NO. 1
   5. NON-LOAD BEARING INTERIOR STUDS STUD GRADE
B. ANY WOOD IN CONTACT WITH CONCRETE, MASONRY, SOIL, OR EXPOSED TO WEATHER SHALL BE PRESSURE TREATED. METAL CONNECTORS SHALL BE FASTENED IN ACCORDANCE WITH THE MANUFACTURERS'S INSTRUCTIONS TO DEVELOP THE MAXIMUM PUBLISHED CAPACITY.
C. ALL WOOD TO WOOD CONNECTIONS SHALL EMPLOY METAL ANCHORS. NO TOE OR END NAILING SHALL BE PERMITTED, EXCEPT FOR AT TOP AND BOTTOM PLATES IN WALLS. ALL CONNECTORS SHALL BE G90 GALVANIZED STEEL. EXCEPT THAT ALL EXTERIOR CONNECTIONS AND CONNECTIONS IN CONTACT WITH PRESSURE TREATED FIRE-RETARDANT OR WOLMANIZED WOOD SHALL BE COATED WITH G185 ZINC COATING.
D. THE QUANTITY OF WALL STUDS DISPLACED OR CUT FOR AN OPENING SHALL BE PLACED ADJACENT TO AND ATTACHED TO JAMBS, HALF ON EACH SIDE OF THE OPENING.
E. WHERE CONNECTIONS ARE NOT SHOWN ON THE DRAWINGS, COMPLY WITH THE NAILING SCHEDULE IN THE BUILDING CODE. ALL NAILS AT NON-AIR CONDITIONED/HEATED AREAS SHALL BE GALVANIZED.
F. TOE NAILS SHALL BE DRIVEN AT AN ANGLE OF 30 DEGREES TO THE PIECE AND BE STARTED AT 1/3 THE NAIL LENGTH FROM THE END OF THE PIECE.
G. ALL BOLTS SHALL BE FURNISHED WITH STANDARD NUT WASHER. FASTENERS IN CONTACT WITH TREATED WOOD, INCLUDING BOLTS AND NAILS AT SILL PLATES SHALL BE HOT-DIPPED GALVANIZED OR STAINLESS STEEL IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 23 OF THE BUILDING CODE.
H. ALL NAILS TO BE TO BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS D, OR SHALL HAVE A MECHANICALLY DEPOSITED ZINC COATING IN ACCORDANCE WITH ASTM B695, CLASS 55, UNLESS NOTED OTHERWISE. COORDINATE BLOCKING LOCATION WITH SHEATHING EDGES AS REQUIRED. ALL NAILS SHALL BE COMMON WIRE NAILS.
I. GENERAL STRUCTURAL WOOD NOTES:
   1. UNSHEATHED INTERIOR OR EXTERIOR LOAD-BEARING STUD WALLS SHALL HAVE CONTINUOUS HORIZONTAL BLOCKING OR BRACING AT 4' - 6" ON CENTER MAXIMUM. VERTICALLY PRIOR TO APPLYING LOADS TO THESE WALLS (NOT REQUIRED IF SHEATHING IS IN PLACE).
   2. (2)-2x AND (2)-2X + 1/2" PLYWOOD PLATE BEAMS SHALL BE SPIKED TOGETHER WITH 12d NAILS AT 12" ON CENTER TOP & BOTTOM. (3)-2x AND LARGER BEAMS SHALL BE BOLTED TOGETHER WITH 1/2" DIAMETER BOLTS AT 2'-6" ON CENTER MAXIMUM EACH SIDE.
   3. ROOF TRUSSES SHALL BE CONNECTED AT THE BEARING AT EACH END AS FOLLOWS:
      a. WHERE THE ROOF TRUSSES BEARS ON A DOUBLE 2x PLATE THE TRUSS SHALL BE CONNECTED WITH (2)-12d TOENAILS AND A SIMPSON H2.5A. THE DOUBLE 2x PLATE SHALL BE ANCHORED TO THE STUDS WITH A SIMPSON H6 AT FULL HEIGHT STUDS AT THE JAMBS EACH SIDE OF ALL OPENINGS, AT ALL CORNERS AND AT 4'-0" ON CENTER BETWEEN.
      b. WHERE THE ROOF TRUSS CONNECTS TO ANOTHER TRUSS OR BEAM, IT SHALL BE CONNECTED WITH A METAL TRUSS ANCHOR CAPABLE OF RESISTING GRAVITY AND WIND LOADS. (ANCHOR TO BE SELECTED AND DESIGNED BY TRUSS ENGINEER).
      c. ROOF BEAMS WITH SPANS GREATER THAN 5'-0" SHALL BE ANCHORED AT EACH END WITH (1)-1/4"X16 GA. (MIN.) STRAP WITH (4)-8d NAILS INTO BEAM AND INTO JAMB STUDS.
   4. MULTIPLE STUDS OR SOLID COLUMNS SHALL BE CONTINUOUS FROM FRAMING LEVEL, WHERE SHOWN, TO THE FOUNDATION. THIS WILL REQUIRE SOLID BLOCKING WITHIN THE FLOOR FRAMING EQUAL TO THE COLUMN DIMENSION (SEE TYPICAL DETAIL). CONNECT COLUMNS ABOVE AND BELOW EACH FRAMING LEVEL WITH SIMPSON CMST14 STRAP (WITH NAILS/LAP ABOVE AND BELOW FRAMING LEVEL PER STRAP SPECIFICATIONS) AND ANCHOR COLUMN TO FOUNDATION WITH SIMPSON HTT16 HOLD-DOWN WITH 5/8" DIAMETER x 6" EMBEDMENT EPOXY ANCHOR.
   5. MULTIPLE STUD PACK COLUMNS SHALL BE CONNECTED TO ONE ANOTHER WITH 16d NAILS AT 16" ON CENTER VERTICALLY.
J. UPLIFT LOAD CARRYING SYSTEM:
   1. ROOF TRUSSES, TRUSS GIRDERS, JOISTS AND BEAMS TO WALLS
      a. ALL CONNECTIONS SPECIFIED ABOVE ARE MINIMUM CONNECTIONS AND WILL BE REVIEWED AND UPDATED BASED ON UPLIFT FORCES SUBMITTED ON THE TRUSS AND JOIST SHOP DRAWINGS.
      b. TRUSSES 7 JOISTS (TYPICAL) - (1) SIMPSON H2.5A AT EACH END.
      c. TRUSSES 7 JOISTS (2 SPAN) - (1) SIMPSON H2.5A AT EACH END AND (2) SIMPSON H2.5A AT INTERMEDIATE SUPPORTS (ONE EACH SIDE).
      d. BEAMS OR TRUSS GIRDER - (1) SIMPSON MTS20 EACH END TYPICAL. DESIGN BY TRUSS DESIGNER FOR NON-TYPICAL CONDITIONS.
      e. BEAM TO POST - CMST14 STRAP WRAPPED ACROSS TOP OF BEAM END AND DOWN POST WITH NAILS/LAP ON TOP OF BEAM AND DOWN POST AS SPECIFIED FOR STRAP.
   2. TOP PLATES TO STUDS AT ROOF (1) SIMPSON H6 AT FULL HEIGHT STUDS AT THE JAMBS EACH SIDE OF ALL OPENINGS AT WALL CORNERS AND AT 4'-0" ON CENTER BETWEEN FOR INTERIOR WALLS AND FOR EXTERIOR AND CORRIDOR WALLS, PLUS NAILING OF SHEATHING TO PLATE.
   3. STUD TO STUD CONNECTIONS ACROSS EACH ELEVATED FLOOR LEVEL - (1) SIMPSON MSTA 36 AT FULL HEIGHT STUDS AT THE JAMBS EACH SIDE OF ALL OPENINGS, AT ALL WALL CORNERS AND AT 4'-0" ON CENTER BETWEEN.
   4. FIRST FLOOR STUD TO MUD SILL - (1) SIMPSON H4 ANCHOR AT FULL HEIGHT STUDS AT THE JAMBS EACH SIDE OF ALL OPENINGS, AT ALL WALL CORNERS AND AT 4'-0" ON CENTER BETWEEN.
   5. MUD SILL TO FOUNDATION:
      a. AT EXTERIOR WALLS - USE 1/2" DIAMETER EPOXY ANCHORS (EMBEDMENT = 5") AT EACH CORNER JAMB AND AT 4'-0" ON CENTER
      b. AT INTERIOR WALLS - USE 1/2" DIAMETER EXPANSION BOLTS AT EACH CORNER, JAMB AND AT 4'-0" ON CENTER (EMBEDMENT = 6")
      c. AT POST-TENSION SLABS - USE (2) ROWS 0.145" DIAMETER x 3/4" EMBEDMENT POWDER-ACTUATED FASTENERS AT 8" ON CENTER EPOXY ANCHORS AND/OR EXPANSION BOLTS SHALL NOT BE USED FOR ANCHORING WALLS (STRUCTURAL OR NON-STRUCTURAL) TO POST-TENSION SLABS.
K. HORIZONTAL LOAD CARRYING SYSTEM:
   1. INTERIOR SHEAR WALLS: 5/8" GYP. WALLBOARD
L. PROVIDE ONE ROW OF BRIDGING FOR EACH 8'-0" SPAN FOR ROOF JOISTS.
M. WALL SHEATHING NOTED ON STRUCTURAL DRAWINGS OR SCHEDULE SHALL BE ATTACHED DIRECTLY TO THE FACE OF FRAMING MEMBERS. SEE ARCHITECTURAL DRAWINGS FOR ALL NON-STRUCTURAL SHEATHING REQUIREMENTS. ADDITIONAL SHEATHING REQUIRED BY ARCHITECTURAL DRAWINGS SHALL BE ATTACHED TO THE OUTSIDE FACE OF STRUCTURAL SHEATHING.
N. AT CONTRACTOR'S OPTION, FINGER-JOINTED LUMBER MAY BE USED FOR WALL STUDS ONLY.
O. 1/2" PLYWOOD OR OSB SHEATHING AT EXTERIOR WALLS NOT SPECIFICALLY NOTED AS SHEAR WALLS SHALL BE FASTENED TO INTERMEDIATE SUPPORTS WITH 10d NAILS AR 12" ON CENTER AND AT PANELS EDGES WITH 10d NAILS AT 6" ON CENTER UNLESS NOTED OTHERWISE.
P. ALL EXTERIOR, INTERIOR LOAD BEARING, AND SHEAR WALLS SHALL BE ANCHORED TO SLAB WITH ANCHOR BOLTS OR CHEMICAL ANCHORS PER DRAWINGS. WALLS ON POST-TENSIONED SLABS SHALL BE ANCHORED USING POWDER- DRIVEN FASTENERS, 3/4" MAXIMUM EMBEDMENT DEPTH.
Q. ALL WALL DOUBLE TOP PLATES SHALL BE LAPPED AT CORNERS AND INTERSECTIONS AND FASTENED PER IBC FASTENING SCHEDULE. ALL DOUBLE PLATE END JOINTS SHALL BE OFFSET AT LEAST 24" DOUBLE PLATES TO BE FASTENED TOGETHER PER IBC FASTENING SCHEDULE, UNLESS NOTED OTHERWISE AT LOAD-BEARING WALLS, FASTEN EACH PLATE TO PLATE WITH (2) ROWS 12d NAILS AT 8" ON CENTER
R. TIMBER FASTENING SHALL BE PER IBC "MINIMUM FASTENING SCHEDULE" UNLESS NOTED AS GREATER ON DRAWINGS. CONNECTORS TO BE SIMPSON OR APPROVED ALTERNATE, WITH MINIMUM CAPACITY AS INDICATED ON THE DRAWINGS.
S. JOISTS OR STUDS SHALL NOT BE CUT TO INSTALL PLUMBING OF WIRING UNLESS METAL OR WOOD SIDE PIECES/PLATES ARE APPROVED TO STRENGTHEN MEMBER.

PLYWOOD ROOF SHEATHING

A. APA RATED SHEATHING SHALL BE 23/32" PERFORMACE CATEGORY 48/24 EXPOSURE 1 AT ALL FLAT ROOFS.
B. LONG SIDE OF PANEL SHALL BE PERPENDICULAR TO THE SUPPORT. PANEL JOINTS SHALL BE STAGGERED AND PANELS SHALL BE CONTINUOUS OVER TWO OR MORE SPANS.
C. MINIMUM FASTENERS SHALL BE 10d NAILS TO WOOD FRAMING AND #10 SCREWS TO COLD-FORMED STEEL FRAMING. MAXIMUM SPACING OF FASTENERS SHALL BE 4" AT PERIMETER, 6" AT ENDS OF PANEL, AND 12" AT INTERMEDIATE SUPPORT.
D. SUITABLE EDGE SUPPORT SHALL BE PROVIDED AS RECOMMENDED BY THE AMERICAN PLYWOOD ASSOCIATION BY USE OF PANEL CLIPS OR LUMBER BLOCKING BETWEEN JOISTS. PANEL END JOINTS SHALL OCCUR OVER FRAMING. PLYWOOD PANELS SHALL BE BLOCKED WITH 2x6 (MIN UNLESS NOTED OTHERWISE) AT PERIMETER OF ROOF AND AT DIRECTIONAL CHANGES.

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JG Project #: 21.08.018

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS.

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1971

CLIENT
LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION
SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
N21002

VERIFY SCALES
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS
1 ADDENDUM #6 2022-12-22

DATE OF ISSUE
09/19/22

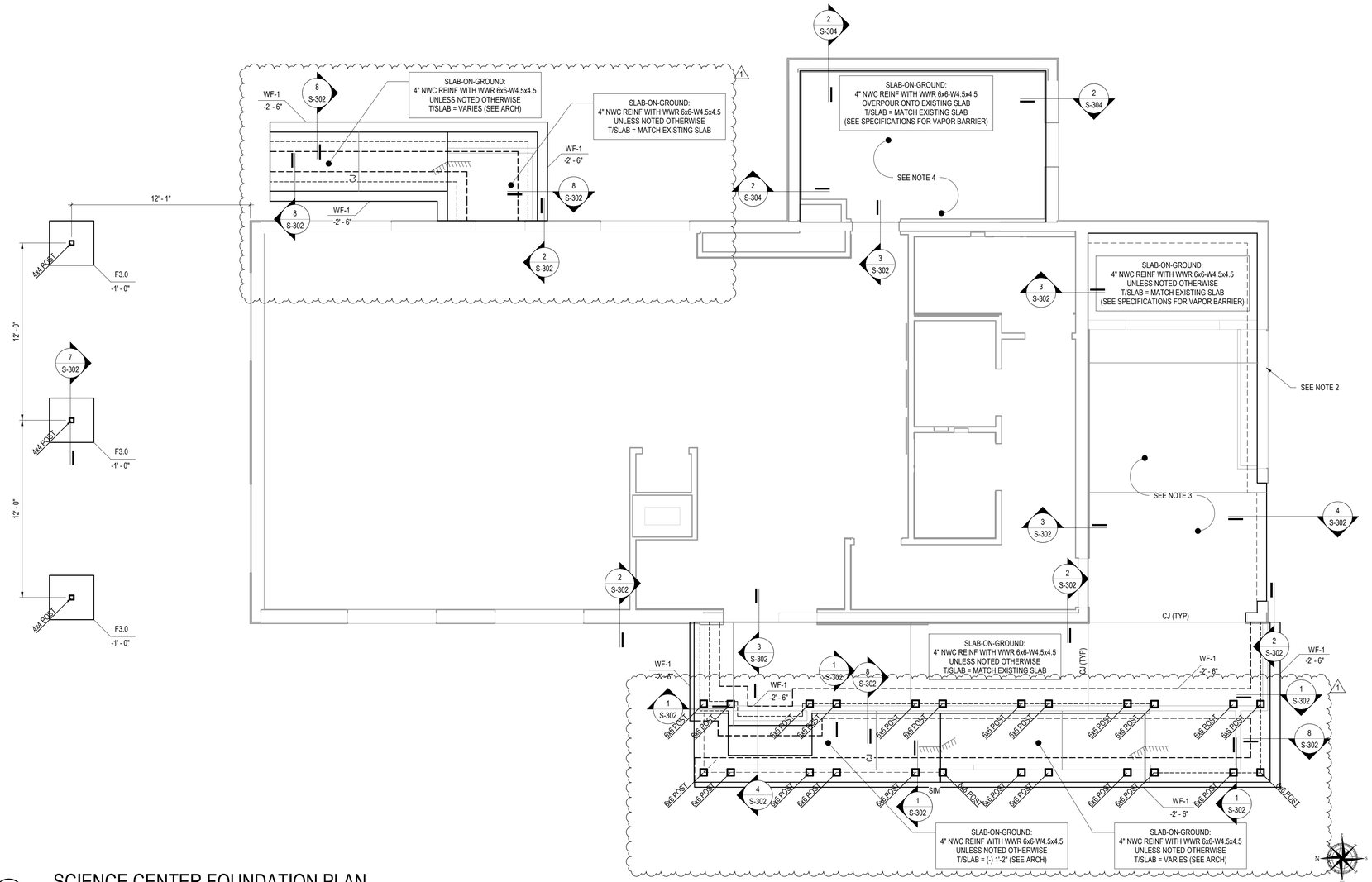
DESIGNED BY
MM

DRAWN BY
MSB

CHECKED BY
APT

DRAWING TITLE
GENERAL NOTES

DRAWING NUMBER
S-002



1 SCIENCE CENTER FOUNDATION PLAN

1/4" = 1'-0"

NOTES:

1. ▭ DENOTES 8" CMU WALL REINFORCED WITH #5 AT 24" OC.
2. DEMOLISH EXISTING BREEZE BLOCK AND THEN INFILL WITH CMU BLOCK.
3. GC TO PROVIDE COMPACTED FILL OVER EXISTING SLAB-ON-GROUND.
4. INTENTIONALLY ROUGHEN EXISTING CONCONCRETE SURFACE & APPLY BONDING AGENT PRIOR TO NEW CONCRETE POUR.
5. WF-#: DENOTES WALL FOOTING. FOR SIZE AND REINFORCEMENT SEE S-302.
6. F-#: DENOTES ISOLATED FOOTING. FOR SIZE AND REINFORCEMENT SEE S-302.
7. #x# POST: DENOTES #"x#" NOMINAL DIMENSION LUMBER WOOD COLUMN. 1
8. "CJ" DENOTES SLAB ON GROUND CONTROL JOINT. SPACING SHALL NOT EXCEED 12'-0" UNLESS NOTED OTHERWISE.
9. PLACE MIN 10 MIL VAPOR BARRIER OVER TERMITE TREATED, WELL COMPACTED FILL. SEE SPECIFICATIONS.
10. FOR CONCRETE FINISH, SEE A0.20.
11. SEE DETAILS FOR PIPING PASSING UNDER WALL FOOTINGS AND TRENCHES ADJACENT TO FOOTINGS. PIPE PASSING UNDER FOOTINGS MUST BE IN PLACE AND INSPECTED BEFORE FOOTINGS ARE PREPARED OR FOOTING MUST STEP BELOW PIPE, SEE 3/S-301
12. GENERAL CONTRACTOR SHALL COORDINATE PLUMBING AND UTILITY LOCATIONS WITH FOUNDATION AS NEEDED. ADDITIONALLY, GENERAL CONTRACTOR SHALL COORIDINATE FOUNDATION ELEVATIONS WITH PLUMBING AND UTILITIES AS NEEDED. FORWARD ANY CHANGES REQUIRED TO FOUNDATION LOCATIONS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
13. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OF MATERIAL.
14. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
15. RE-ENTRANT CORNER BARS, SEE 6/ S-301.
16. FOR REINFORCEMENT AT SLAB PENETRATIONS, SEE 6/ S-302.
17. FOR SLAB ON GRADE CONTROL JOINT DETAILS, SEE 4/ S-301.

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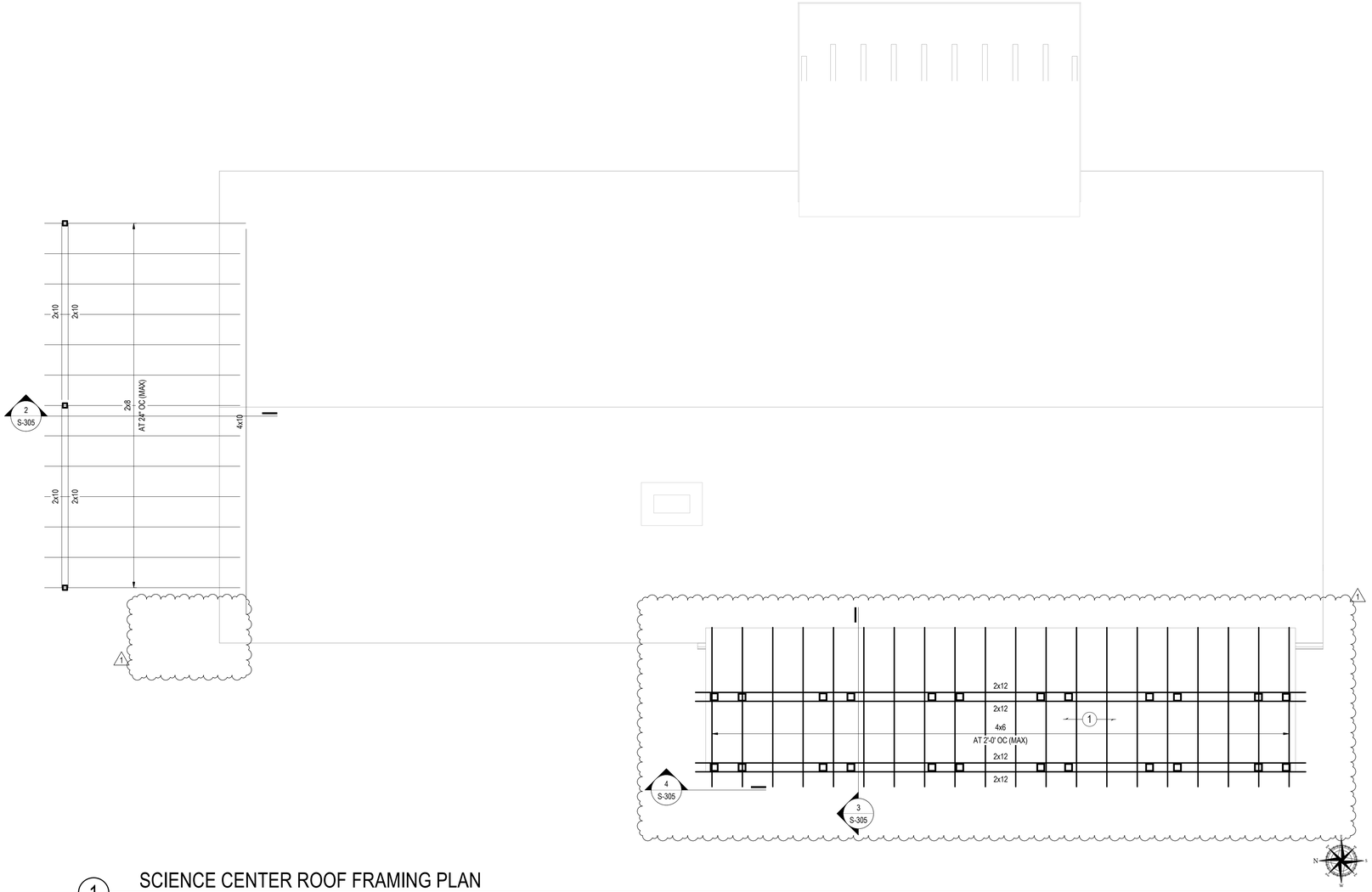
DRAWING TITLE
SCIENCE CENTER FOUNDATION PLAN

DRAWING NUMBER
S-201



1 SCIENCE CENTER ROOF FRAMING PLAN

1/4" = 1'-0"

NOTES:

1. XxX: DENOTES WOOD FRAMING SIZE.
2. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OF ANY MATERIAL.
3. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
4. 1 DENOTES 2" NOMINAL #2 SOUTHERN YELLOW PINE TONGUE AND GROOVE DECKING.

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REVISIONS
1 ADDENDUM #6 2022-12-22

JEZERINAC GROUP

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CERTIFICATE OF AUTHORIZATION FL #30785
JG Project #: 21.08.018

TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE BUILDING CODES AND MATERIAL SPECIFICATIONS.

BID DOCUMENTS

DATE OF ISSUE
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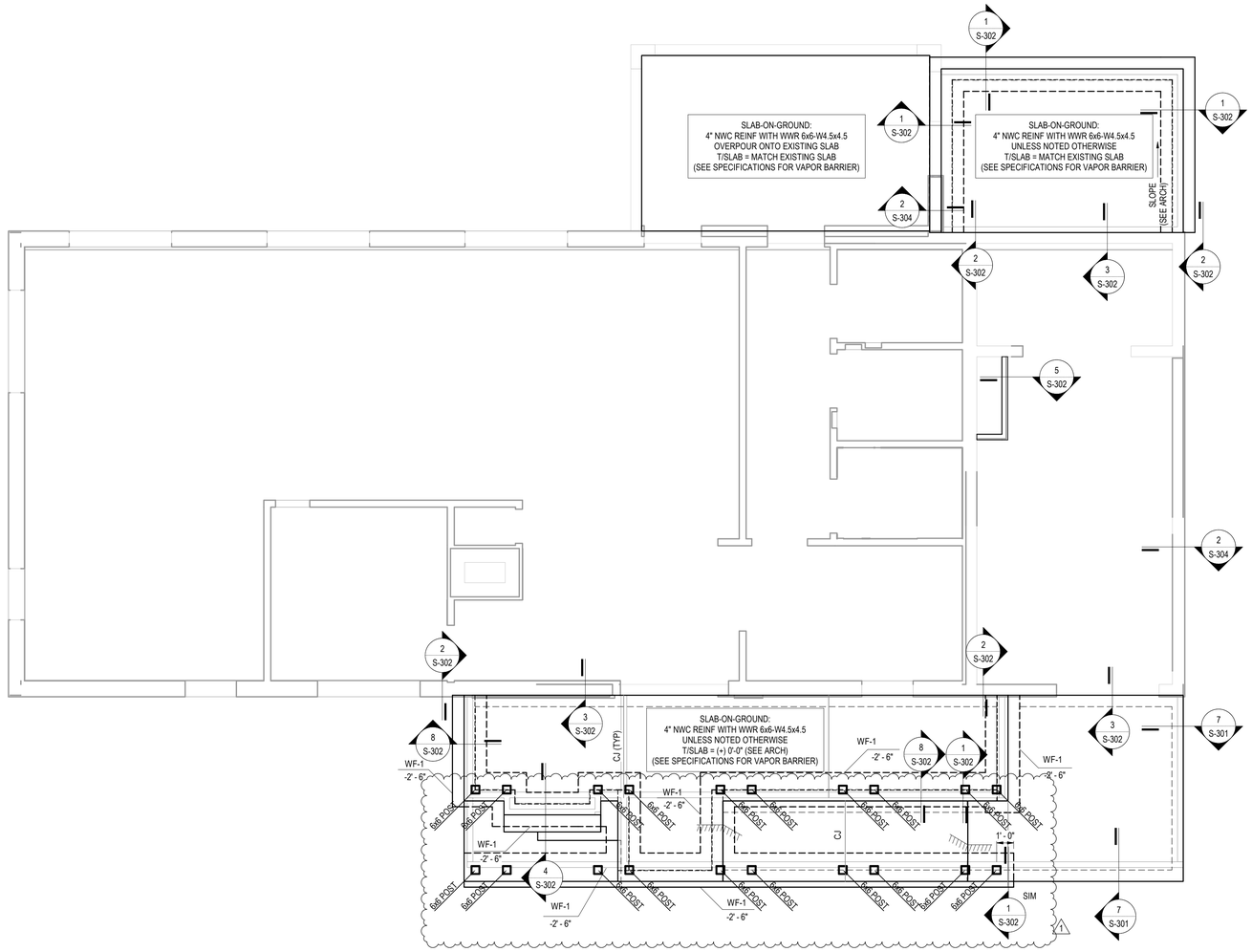
DRAWING TITLE
SCIENCE CENTER ROOF FRAMING PLAN

DRAWING NUMBER
S-202



1 SCIENCE CLASSROOM FOUNDATION PLAN

1/4" = 1'-0"

NOTES:

1. [redacted] DENOTES 8" CMU WALL REINFORCED WITH #5 AT 24" OC.
2. GC TO PROVIDE COMPACTED FILL OVER EXISTING SLAB-ON-GROUND.
3. INTENTIONALLY ROUGHEN EXISTING CONCONCRETE SURFACE & APPLY BONDING AGENT PRIOR TO NEW CONCRETE POUR.
4. WF-#: DENOTES WALL FOOTING, FOR SIZE AND REINFORCEMENT SEE S-302.
5. #x# POST: DENOTES #"x#" NOMINAL DIMENSION LUMBER WOOD COLUMN.
6. CJ: DENOTES SLAB ON GROUND CONTROL JOINT. SPACING SHALL NOT EXCEED 12'-0" UNLESS NOTED OTHERWISE.
7. PLACE MIN 10 MIL VAPOR BARRIER OVER TERMITE TREATED, WELL COMPACTED FILL. SEE SPECIFICATIONS.
8. FOR CONCRETE FINISH, SEE A0.20.
9. SEE DETAILS FOR PIPING PASSING UNDER WALL FOOTINGS AND TRENCHES ADJACENT TO FOOTINGS. PIPE PASSING UNDER FOOTINGS MUST BE IN PLACE AND INSPECTED BEFORE FOOTINGS ARE PREPARED OR FOOTING MUST STEP BELOW PIPE, SEE 3/S-301.
10. GENERAL CONTRACTOR SHALL COORDINATE PLUMBING AND UTILITY LOCATIONS WITH FOUNDATION AS NEEDED. ADDITIONALLY, GENERAL CONTRACTOR SHALL COORIDINATE FOUNDATION ELEVATIONS WITH PLUMBING AND UTILITIES AS NEEDED. FORWARD ANY CHANGES REQUIRED TO FOUNDATION LOCATIONS TO STRUCTURAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
11. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OF MATERIAL.
12. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
13. RE-ENTRANT CORNER BARS, SEE 6/ S-301.
14. FOR REINFORCEMENT AT SLAB PENETRATIONS, SEE 6/ S-302.
15. FOR SLAB ON GRADE CONTROL JOINT DETAILS, SEE 4/ S-301.

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REGISTRATION

RONALD M. JEZERINAC, JR. PE NO.: 53859

CLIENT

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

PROJECT INFORMATION

SCIENCE CENTER AT JUPITER INLET LIGHTHOUSE OUTSTANDING NATURAL AREA

JUPITER, FLORIDA

PROJECT NUMBER
21-494.001

CLIENT PROJECT NUMBER
N21002

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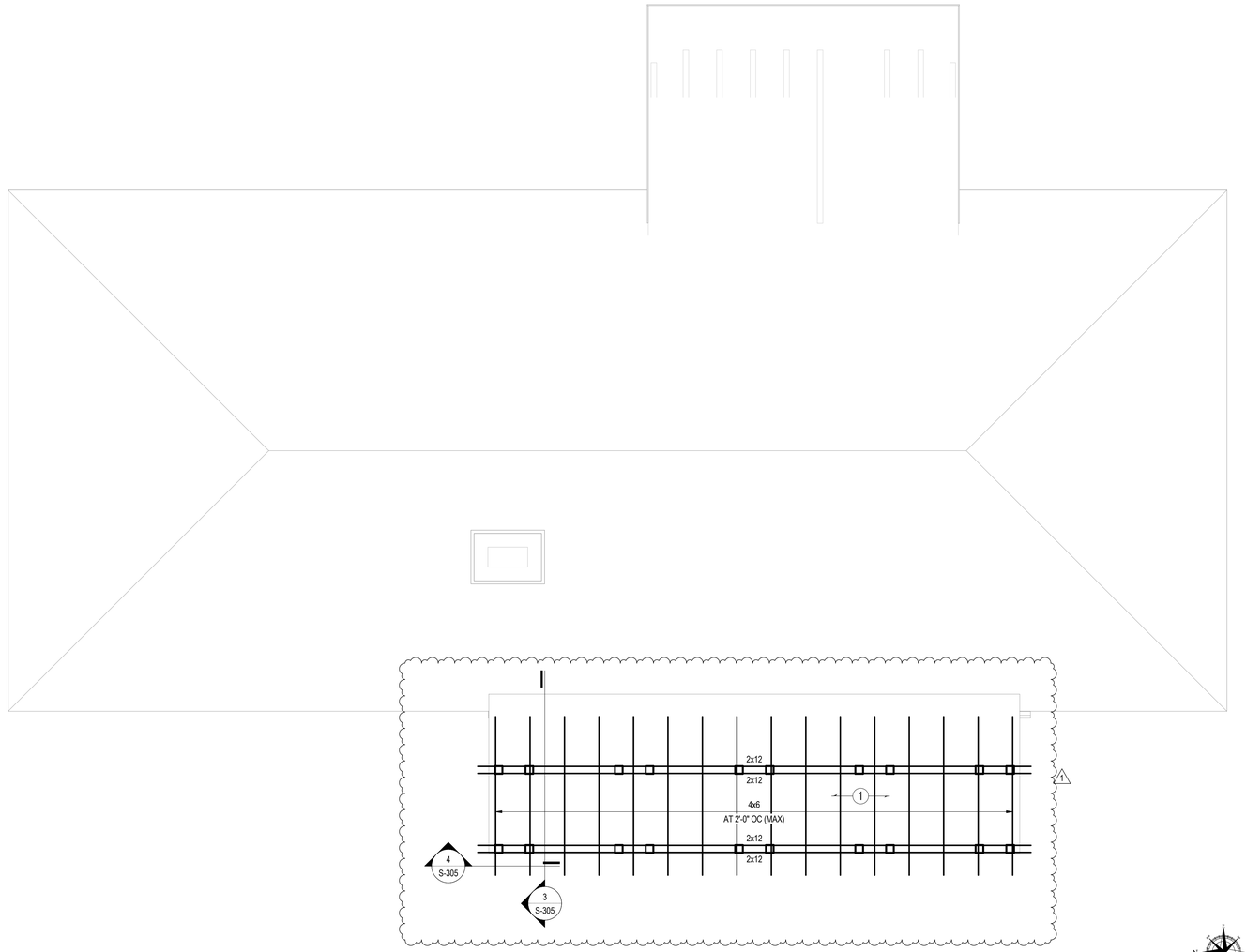
SCIENCE CLASSROOM FOUNDATION PLAN

DRAWING NUMBER
S-211
107 OF 113



1 SCIENCE CLASSROOM ROOF FRAMING PLAN

1/4" = 1'-0"

NOTES:

1. X×X: DENOTES WOOD FRAMING SIZE.
2. FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OF ANY MATERIAL.
3. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.
4. (1) DENOTES 2" NOMINAL #2 SOUTHERN YELLOW PINE TONGUE AND GROOVE DECKING. (1)

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SCIENCE CLASSROOM ROOF FRAMING PLAN

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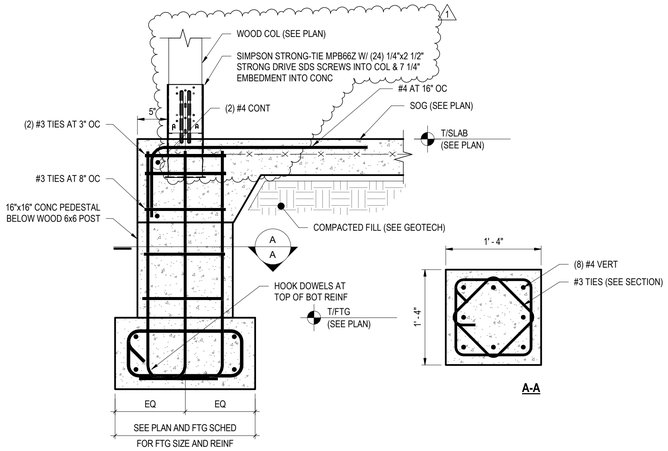
S-212

CONTINUOUS WALL FOOTING SCHEDULE			
MARK	WIDTH	THICKNESS	REINFORCING
WF-1	2' - 0"	1' - 0"	(3) #4 T&B CONT, #5 AT 12" TRANS

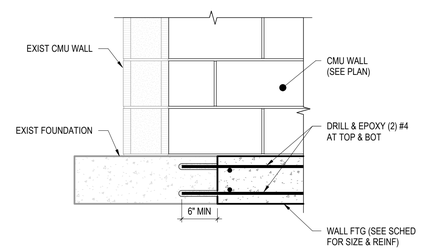
ISOLATED FOOTING SCHEDULE							
MARK	LENGTH	WIDTH	THICKNESS	TOP REBAR - LONG BARS	TOP REBAR - SHORT BARS	BOTTOM REBAR - LONG BARS	BOTTOM REBAR - SHORT BARS
F3.0	3' - 0"	3' - 0"	1' - 0"	-	-	(4) #5	(4) #5



ALUMINUM CANOPY POST TO FOOTING DETAIL WITH PEDESTAL

1 SECTION

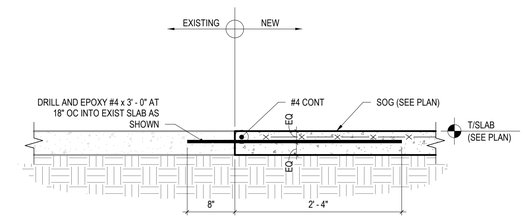
1" = 1'-0"



SCAB-ON FOOTING REINFORCEMENT

2 SECTION

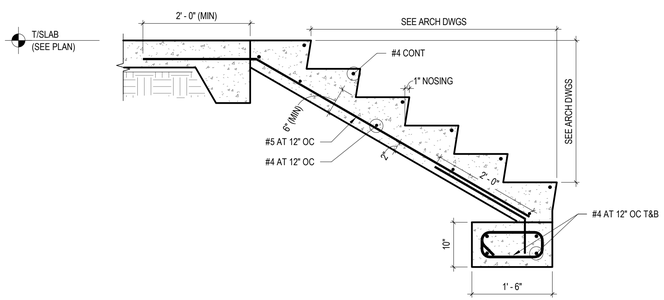
1" = 1'-0"



TYPICAL SLAB-ON-GROUND CONNECTION TO EXISTING SLAB

3 DETAIL

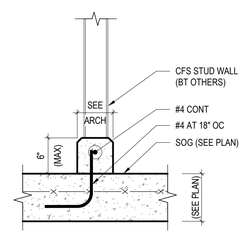
1" = 1'-0"



TYPICIAL CIP STAIR DETAIL

4 SECTION

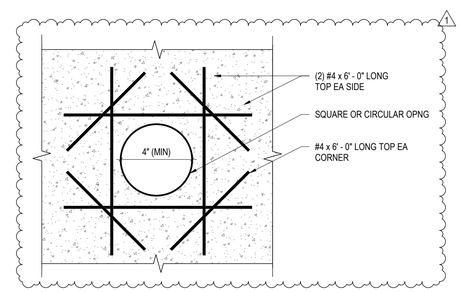
3/4" = 1'-0"



CURB DETAIL

5 SECTION

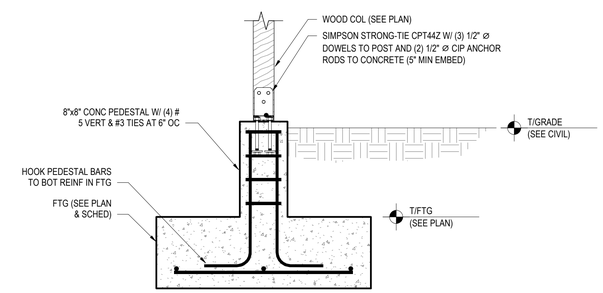
1" = 1'-0"



TYPICAL REINFORCEMENT AT SLAB PIPE PENETRATIONS

6 DETAIL

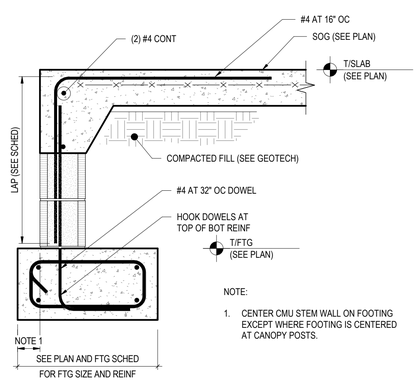
1" = 1'-0"



WOOD POST TO ISOLATED FOOTING DETAIL

7 SECTION

1" = 1'-0"



NOTE:

1. CENTER CMU STEM WALL ON FOOTING EXCEPT WHERE FOOTING IS CENTERED AT CANOPY POSTS.

CMU WALL TO FOOTING DETAIL

8 SECTION

1" = 1'-0"

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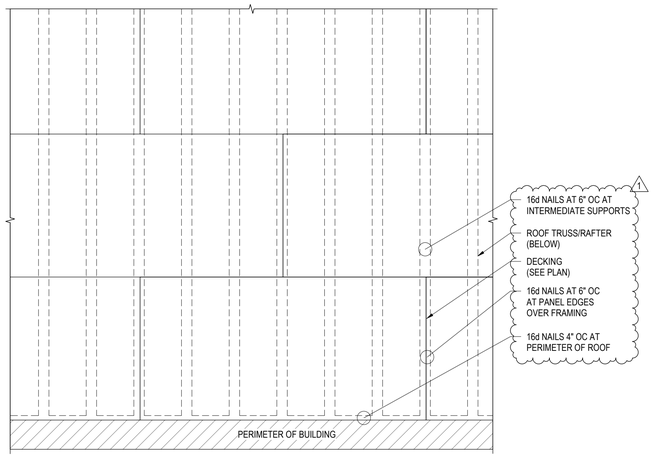
SECTIONS & DETAILS

DRAWING NUMBER

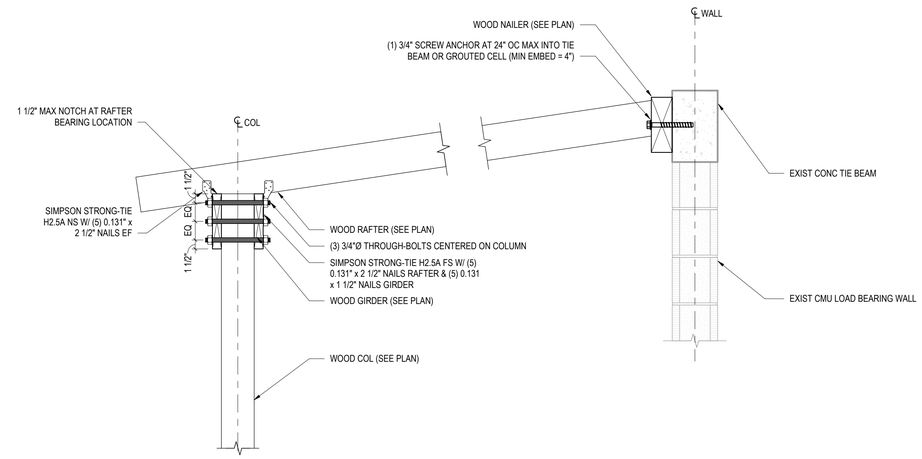
S-302



TYPICAL WOOD FRAMED ROOF DIAPHRAGM CONNECTION DETAIL

1 PLAN

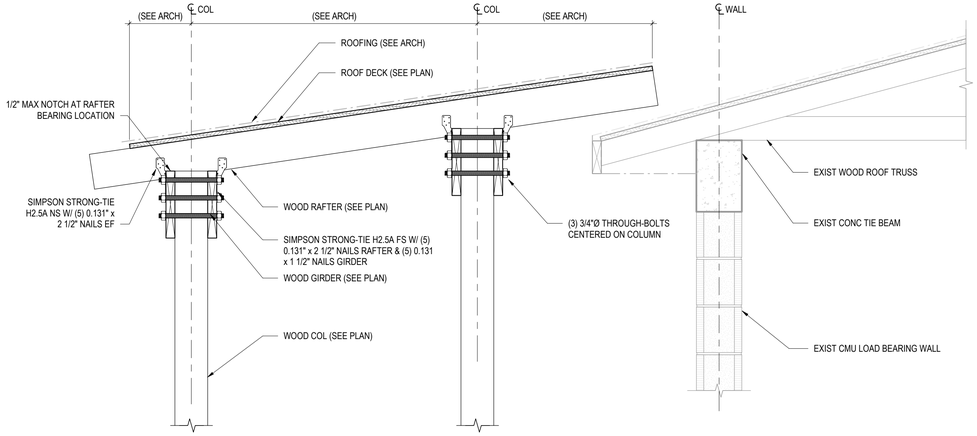
1/2" = 1'-0"



NEW TRELLIS FRAMING

2 SECTION

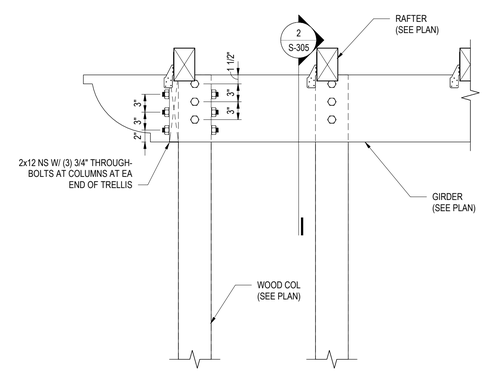
1" = 1'-0"



NEW TRELLIS FRAMING

3 SECTION

1" = 1'-0"



NEW TRELLIS FRAMING

4 SECTION

1" = 1'-0"

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