



# GOODHUE COUNTY MINNESOTA

TO EFFECTIVELY PROMOTE THE SAFETY, HEALTH, AND WELL-BEING OF OUR RESIDENTS

## PARK BOARD AGENDA

GOODHUE COUNTY LEC - EMERGENCY OPERATIONS CENTER  
430 W 6TH ST, RED WING, MN

OCTOBER 7, 2021  
1:00 PM

### **VIRTUAL MEETING OPTION NOTICE.**

The Goodhue County Parks, Trails, and Recreation Advisory Board will be conducting a Park Board meeting on October 7, 2021, at 1:00 PM in the Goodhue County Law Enforcement Center's Emergency Operations Center. Goodhue County Public Works staff and some Park Board members will be present at the meeting location, with some Park Board members joining the meeting virtually. The public may attend the meeting from a remote site by logging into <https://global.gotomeeting.com/join/705880437> or by calling 877-309-2073 OR 571-317-3129 any time during the meeting. Access Code: 705-880-437

### **Review And Approve Minutes From Previous Meeting.**

Documents:

[07-22-21 PB Minutes Draft.pdf](#)

### **Review And Approve The Agenda.**

#### **Byllesby Park Pavilion Design.**

Documents:

[Byllesby Pavilion Design.pdf](#)

#### **Byllesby Park Berm Design.**

Documents:

[Byllesby Park Berm Planting Plan.pdf](#)

#### **Fishing At Lake Byllesby.**

Documents:

[Fishing at Lake Byllesby.pdf](#)

### **Next Meeting Date.**

**Adjourn.**

The minutes will be presented for approval at the next Park Board meeting.

## Goodhue County Parks, Trails and Recreation Advisory Board

Meeting Date: July 22, 2021

Meeting Location: Goodhue County Public Works – Red Wing, MN  
(Virtual Meeting Optional)

Meeting Time: 10:00 AM

### Members

Brad Anderson	Commissioner
Todd Greseth	Commissioner
Mike Melstad	1 <sup>st</sup> District Rep
Mairi Doerr	2 <sup>nd</sup> District Rep
Bernie Overby	3 <sup>rd</sup> District Rep
Barbara Pratt	4 <sup>th</sup> District Rep
Janie Farrar	5 <sup>th</sup> District Rep
Scott Roepke	Cannon Valley Trail Rep
Roxanne Bartsh	Goodhue Pioneer Trail Rep
Greg Isakson	Staff: Director of Public Works
Jennifer Ziemer	Staff: Admin Assistant- PW

Absent: Janie Farrar and Roxanne Bartsh.

Virtual: Barbara Pratt and Scott Roepke.

Bernie Overby called the meeting to order at 10:06 AM. It was moved by Commissioner Anderson, seconded by Mairi Doerr, and carried to approve the June 30, 2021, Park Board Minutes.

It was moved by Mike Melstad, seconded by Bernie Overby, and carried to approve the agenda.

The Park Board reviewed the draft Cascade Canoe & Kayak Launch Rules Ordinance. The Park Board approved the following changes to the ordinance:

- Correct spelling error in 2. f. from “personnel” to “personal”
- Add “(fireworks)” to 2. n. following the word “explosives”
- Add “, including fishing,” after the words “other purposes” in #3
- Add “The intent of this facility is to provide canoe and kayak access to the Cannon River” to the beginning of #3 and move it up to the #1 position
- #1 will become #2
- #4 will become #3
- #5 will become #4
- Move #2 down to become #5

It was moved by Mike Melstad, seconded by Mairi Doerr, and carried to approve the draft ordinance with the changes listed above, and request approval and enactment by the County Board. Staff agreed to revise the ordinance document and send it out to the Park Board for their final review before enactment. The Park Board would like to see the rules posted in the same languages that Dakota County uses to post safety notices at Byllesby Dam.

It was moved by Commissioner Anderson, seconded by Mairi Doerr and Scott Roepke, and carried to name the new pavilion in honor of Richard Samuelson, and to use donations that were made in his memory to purchase a plaque that honors Richard’s commitment to parks and trails. Commissioner Anderson, Scott Roepke, and Greg Isakson all noted how different facilities, properties, and amenities would not exist today if it was not for Richard’s advocacy.

### Mission Statement

*The mission of the Goodhue County Parks, Trails and Recreation Advisory Board is to provide a quality park, trail and recreation system which strive to preserve, protect, maintain, improve and enhance the County’s park land, trails, and recreational activities, on behalf of all current and future citizens of the County of Goodhue*

The Park Board discussed keeping a portable toilet at Byllesby Park year-round. It was moved by Commissioner Greseth, seconded by Mike Melstad, and carried to keep two portable toilets at Byllesby Park throughout the fall until temperatures drop, then reduce it to one portable over the colder winter months. Staff agreed to check with Rent 'N' Save regarding use during fall months to see if one portable would be sufficient in fall of 2022, or if two is most suitable. Mairi Doerr commented that she liked the idea of mirroring the services provided at Dakota County Lake Byllesby Regional Park to help create the image of one large regional park, and the rest of the Park Board supported that as well.

The Park Board discussed different options for playground replacement in 2027. They recommended considering moving the playground, and adding \$20,000 per year to the budget in 2022-2027 for replacement costs. Possible grants and/or private funding will be researched before 2027.

Byllesby Park, Nielsen Memorial Preserve, and Cannon Valley Trail updates were provided as part of the agenda.

The next meeting date is to be determined.

It was moved by Mike Melstad, seconded by Bernie Overby, and carried to adjourn the meeting at 12:00 PM.

Respectfully submitted,  
Jennifer Ziemer  
Goodhue County Administrative Assistant

***Mission Statement***

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**Greg Isakson, P.E.**  
*Public Works Director/County Engineer*  
*Goodhue County Public Works Department*

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2140 Pioneer Road  
Red Wing, MN 55066  
Office (651) 385-3025

TO: Goodhue County Parks, Trails, and Recreation Advisory Board  
FROM: Greg Isakson, Public Works Director  
RE: 07 Oct 21 Park Board Meeting  
**Byllesby Park Pavilion & Essential Services Project**  
Date: 01 Oct 21

Summary

It is requested that the Park Board review and approve or request changes to the 50% Byllesby pavilion construction plans that have been prepared by LOCUS Architecture.

Background

The future pavilion at Byllesby Park is part of the Greater MN Regional Parks & Trails Commission grant to bring a larger gathering space, modern restroom facilities, potable drinking water, and electrical outlets to the park.

Once 100% complete, these plans will be presented to Stanton Township for approval of a Zoning Certificate, and submitted for a County Building Permit.

Archaeological work was completed on July 8<sup>th</sup>. The final report has been prepared and submitted to the State Historic Preservation Office (SHPO). The SHPO review is due back to the County by October 8<sup>th</sup>. Once the report is cleared and the review letter is submitted to the DNR, the existing middle picnic shelter can then be relocated. Several proposed sidewalk/septic locations are outside of the initial archaeological survey area, and staff will continue to work with the architect and/or SHPO to approve these locations or modify the construction plans.

Staff is hoping to post this project for bidding in late 2021 or early 2022, with the bulk of the construction occurring in 2022.

Recommendations

It is the recommendation of staff that the Park Board approve the 50% plans prepared by LOCUS Architecture.





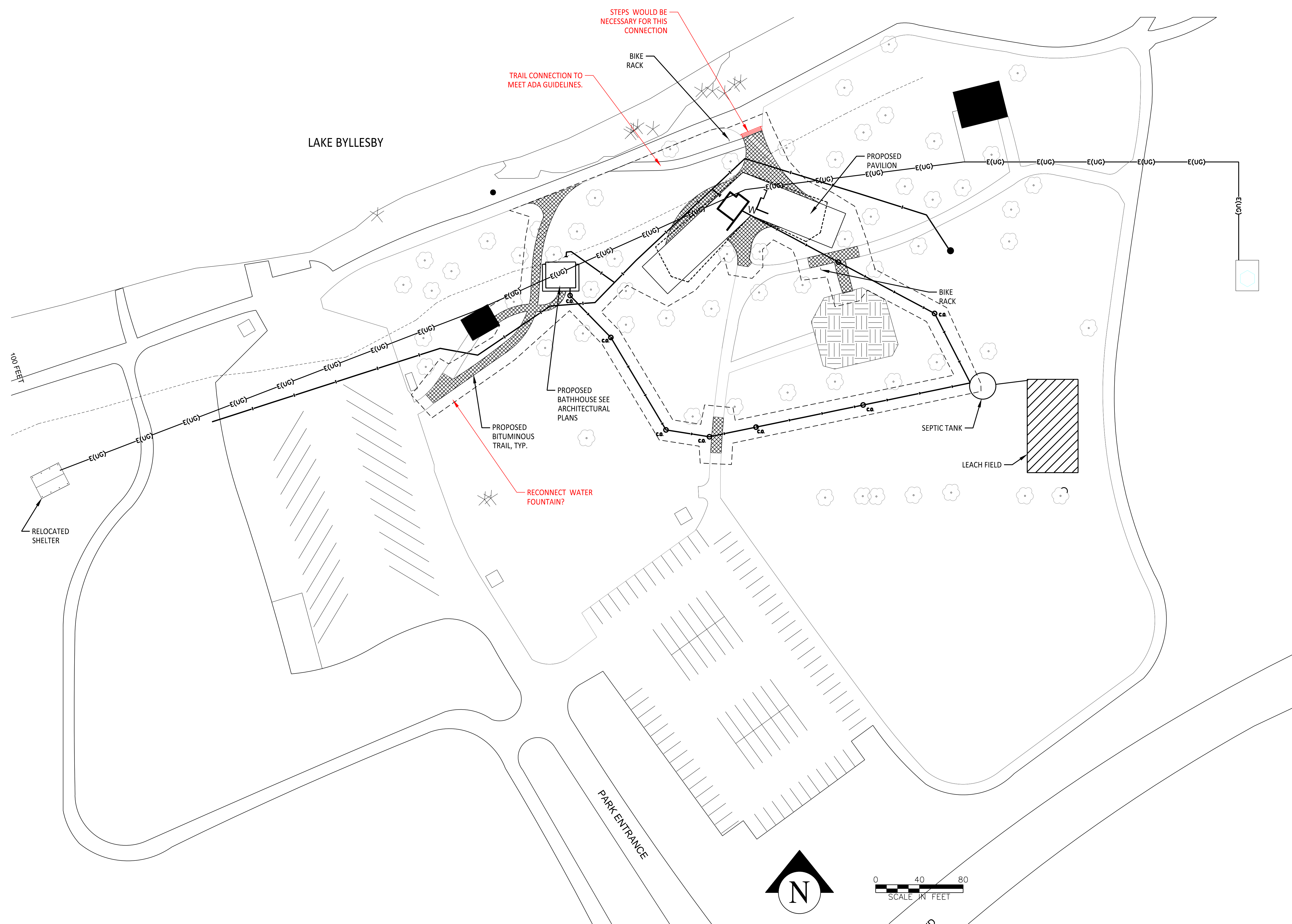












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## LAKE BYLLESBY PARK PAVILION

50% PROGRESS SET  
 NOT FOR CONSTRUCTION

9/22/2021

CLIENT  
 GOODHUE COUNTY

No.	Description

SHEET NAME  
**SITE PLAN**

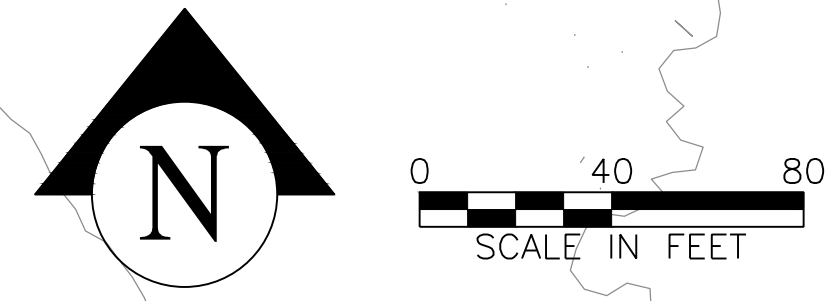
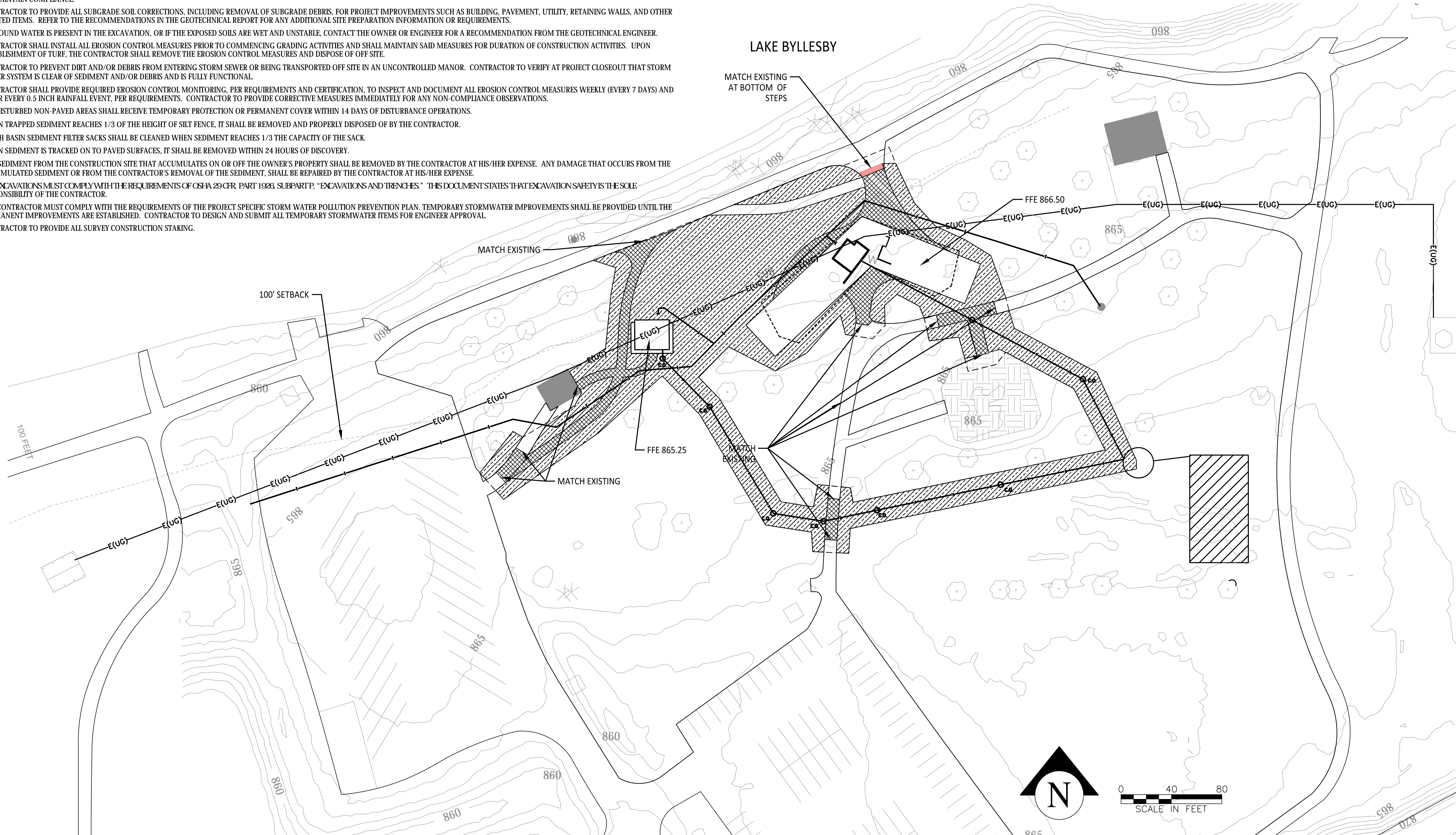
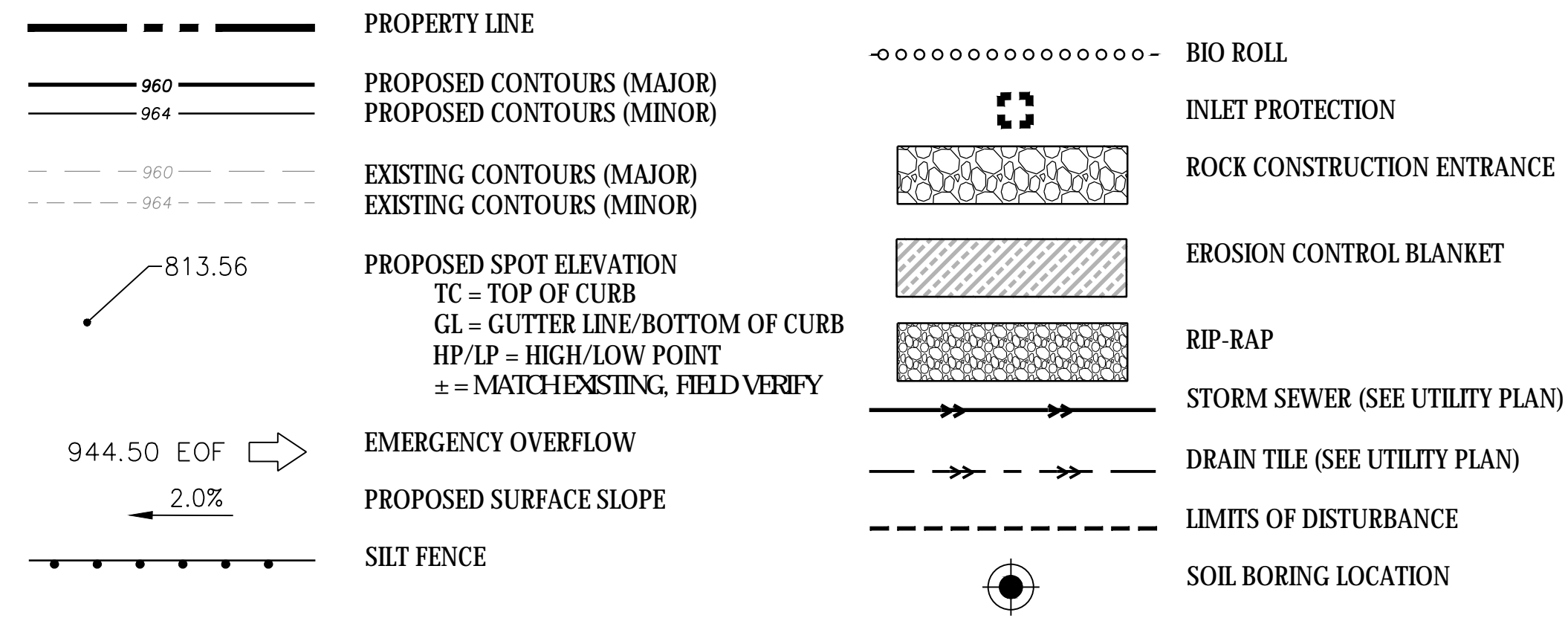
SHEET NUMBER  
**C-101**



# GRADING, DRAINAGE, AND EROSION CONTROL NOTES

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 38-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
- THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.
- CONTRACTOR TO PROVIDE ALL WORK AND MATERIALS FOR GRADING, SUBSOIL CORRECTIONS (IMPORT/EXPORT), RETAINING WALLS, TOPSOIL, EROSION CONTROL AND OTHER RELATED ITEMS.
- SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, GUTTER/FLOW LINE, FACE OF BUILDING, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
- CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.16 FEET. RIM ELEVATIONS SHOWN ON PLANS DO NOT REFLECT SUMPED ELEVATIONS.
- ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 4 INCHES OF TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED. STRIP, STOCKPILE, AND REDISTRIBUTE EXISTING TOPSOIL, AS SUITABLE.
- FOR SITE RETAINING WALLS "TW" EQUALS SURFACE GRADE AT TOP FACE OF WALL (NOT TOP OF WALL), "GW" EQUALS SURFACE GRADE AT WALL GRADE TRANSITION, AND "BW" EQUALS SURFACE GRADE AT BOTTOM FACE OF WALL (NOT BOTTOM OF BURIED WALL COURSES).
- STREETS MUST BE CLEANED AND SWEEPED WHENEVER TRACKING OF SEDIMENTS OCCURS AND BEFORE SITES ARE LEFT IDLE FOR WEEKENDS AND HOLIDAYS. A REGULAR SWEEPING SCHEDULE MUST BE ESTABLISHED.
- DUST SHALL BE ADEQUATELY CONTROLLED.
- ALL SLOPES 1:3 (V:H) OR GREATER REQUIRED TO RECEIVE SURFACE EROSION CONTROL WHETHER IT IS INDICATED ON THE PLAN OR NOT. MAINTAIN SHEET FLOW AND MINIMIZE RILLS AND/OR GULLIES.
- ALL STORM DRAINS AND INLETS MUST BE PROTECTED UNTIL ALL SOURCES OF POTENTIAL DISCHARGE ARE STABILIZED.
- TEMPORARY SOIL STOCKPILES MUST HAVE EFFECTIVE SEDIMENT CONTROL AND CAN NOT BE PLACED IN SURFACE WATERS OR STORM WATER CONVEYANCE SYSTEMS. TEMPORARY STOCKPILES WITHOUT SIGNIFICANT AMOUNT OF SILT, CLAY, OR ORGANIC COMPOUNDS ARE EXEMPT EX: CLEAN AGGREGATE STOCK PILES, DEMOLITION CONCRETE STOCKPILES, SAND STOCKPILES.
- FINAL STABILIZATION REQUIRES THAT ALL SOIL DISTURBING ACTIVITIES HAVE BEEN COMPLETED AND THAT DISTURBED AREAS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER WITH 70% OF THE EXPECTED FINAL DENSITY, AND THAT ALL PERMANENT PAVEMENTS HAVE BEEN INSTALLED. ALL TEMPORARY BMP'S SHALL BE REMOVED, DITCHES STABILIZED, AND SEDIMENT SHALL BE REMOVED FROM PERMANENT CONVEYANCES AND SEDIMENTATION BASINS IN ORDER TO RETURN THE POND/BASIN TO DESIGN CAPACITY.
- THE WATERSHED DISTRICT OR THE CITY MAY HAVE REQUIREMENTS FOR INSPECTIONS VERIFYING PROPER CONSTRUCTION OF THE BEST MANAGEMENT PRACTICES (BMP) - THE MORE RESTRICTIVE REQUIREMENT SHALL APPLY.
- SEE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NOTES AND DETAILS FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL REQUIRED EROSION CONTROL PERMITS/FEE'S, INSPECTIONS, INSPECTIONS, AND DOCUMENTATION. PLAN REPRESENTS MINIMAL EROSION CONTROL, CONTRACTOR TO PROVIDE ADDITIONAL MEANS AND METHODS FOR THE PROJECT AS NECESSARY TO MAINTAIN COMPLIANCE.
- CONTRACTOR TO PROVIDE ALL SUBGRADE SOIL CORRECTIONS, INCLUDING REMOVAL OF SUBGRADE DEBRIS, FOR PROJECT IMPROVEMENTS SUCH AS BUILDING, PAVEMENT, UTILITY, RETAINING WALLS, AND OTHER RELATED ITEMS. REFER TO THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT FOR ANY ADDITIONAL SITE PREPARATION INFORMATION OR REQUIREMENTS.
- IF GROUND WATER IS PRESENT IN THE EXCAVATION, OR IF THE EXPOSED SOILS ARE WET AND UNSTABLE, CONTACT THE OWNER OR ENGINEER FOR A RECOMMENDATION FROM THE GEOTECHNICAL ENGINEER.
- CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO COMMENCING GRADING ACTIVITIES AND SHALL MAINTAIN SAID MEASURES FOR DURATION OF CONSTRUCTION ACTIVITIES. UPON ESTABLISHMENT OF TURF, THE CONTRACTOR SHALL REMOVE THE EROSION CONTROL MEASURES AND DISPOSE OF OFF SITE.
- CONTRACTOR TO PREVENT DIRT AND/OR DEBRIS FROM ENTERING STORM SEWER OR BEING TRANSPORTED OFF SITE IN AN UNCONTROLLED MANNER. CONTRACTOR TO VERIFY AT PROJECT CLOSEOUT THAT STORM SEWER SYSTEM IS CLEAR OF SEDIMENT AND/OR DEBRIS AND IS FULLY FUNCTIONAL.
- CONTRACTOR SHALL PROVIDE REQUIRED EROSION CONTROL MONITORING, PER REQUIREMENTS AND CERTIFICATION, TO INSPECT AND DOCUMENT ALL EROSION CONTROL MEASURES WEEKLY (EVERY 7 DAYS) AND AFTER EVERY 0.5 INCH RAINFALL EVENT, PER REQUIREMENTS. CONTRACTOR TO PROVIDE CORRECTIVE MEASURES IMMEDIATELY FOR ANY NON-COMPLIANCE OBSERVATIONS.
- ALL DISTURBED NON-PAVED AREAS SHALL RECEIVE TEMPORARY PROTECTION OR PERMANENT COVER WITHIN 14 DAYS OF DISTURBANCE OPERATIONS.
- WHEN TRAPPED SEDIMENT REACHES 1/3 OF THE HEIGHT OF SILT FENCE, IT SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR.
- CATCH BASIN SEDIMENT FILTER SACKS SHALL BE CLEANED WHEN SEDIMENT REACHES 1/3 THE CAPACITY OF THE SACK.
- WHEN SEDIMENT IS TRACKED ON TO PAVED SURFACES, IT SHALL BE REMOVED WITHIN 24 HOURS OF DISCOVERY.
- ANY SEDIMENT FROM THE CONSTRUCTION SITE THAT ACCUMULATES ON OR OFF THE OWNER'S PROPERTY SHALL BE REMOVED BY THE CONTRACTOR AT HIS/HER EXPENSE. ANY DAMAGE THAT OCCURS FROM THE ACCUMULATED SEDIMENT OR FROM THE CONTRACTOR'S REMOVAL OF THE SEDIMENT, SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE.
- ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART P, "EXCAVATIONS AND TRENCHES." THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS OF THE PROJECT SPECIFIC STORM WATER POLLUTION PREVENTION PLAN. TEMPORARY STORMWATER IMPROVEMENTS SHALL BE PROVIDED UNTIL THE PERMANENT IMPROVEMENTS ARE ESTABLISHED. CONTRACTOR TO DESIGN AND SUBMIT ALL TEMPORARY STORMWATER ITEMS FOR ENGINEER APPROVAL.
- CONTRACTOR TO PROVIDE ALL SURVEY CONSTRUCTION STAKING.

## GRADING AND EROSION CONTROL LEGEND



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## LAKE BYLLESBY PARK PAVILION

50% PROGRESS SET  
 NOT FOR CONSTRUCTION

9/22/2021

CLIENT  
 GOODHUE COUNTY

No.	Description

SHEET NAME  
**GRADING AND EROSION CONTROL PLAN**  
 SHEET NUMBER

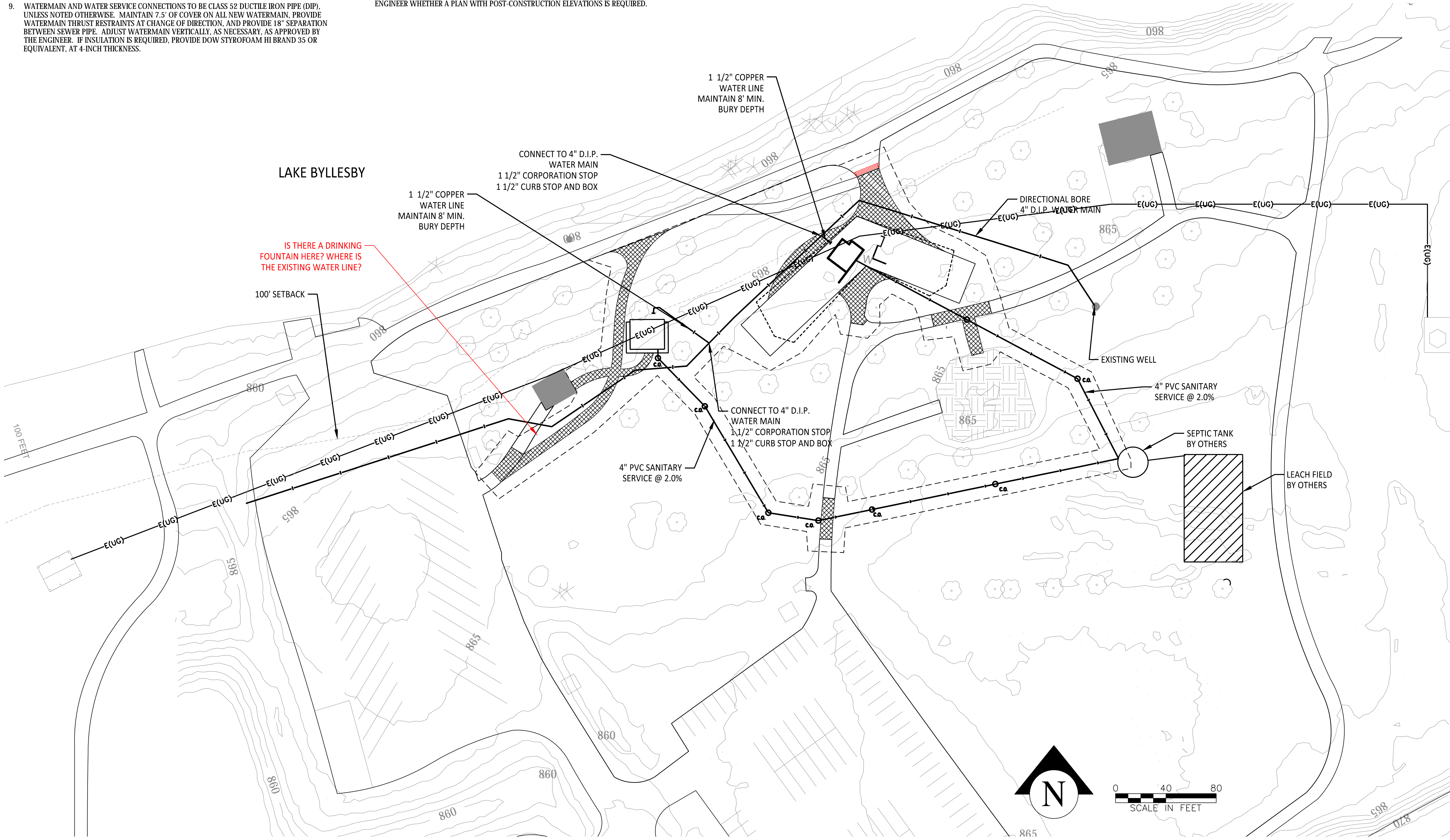
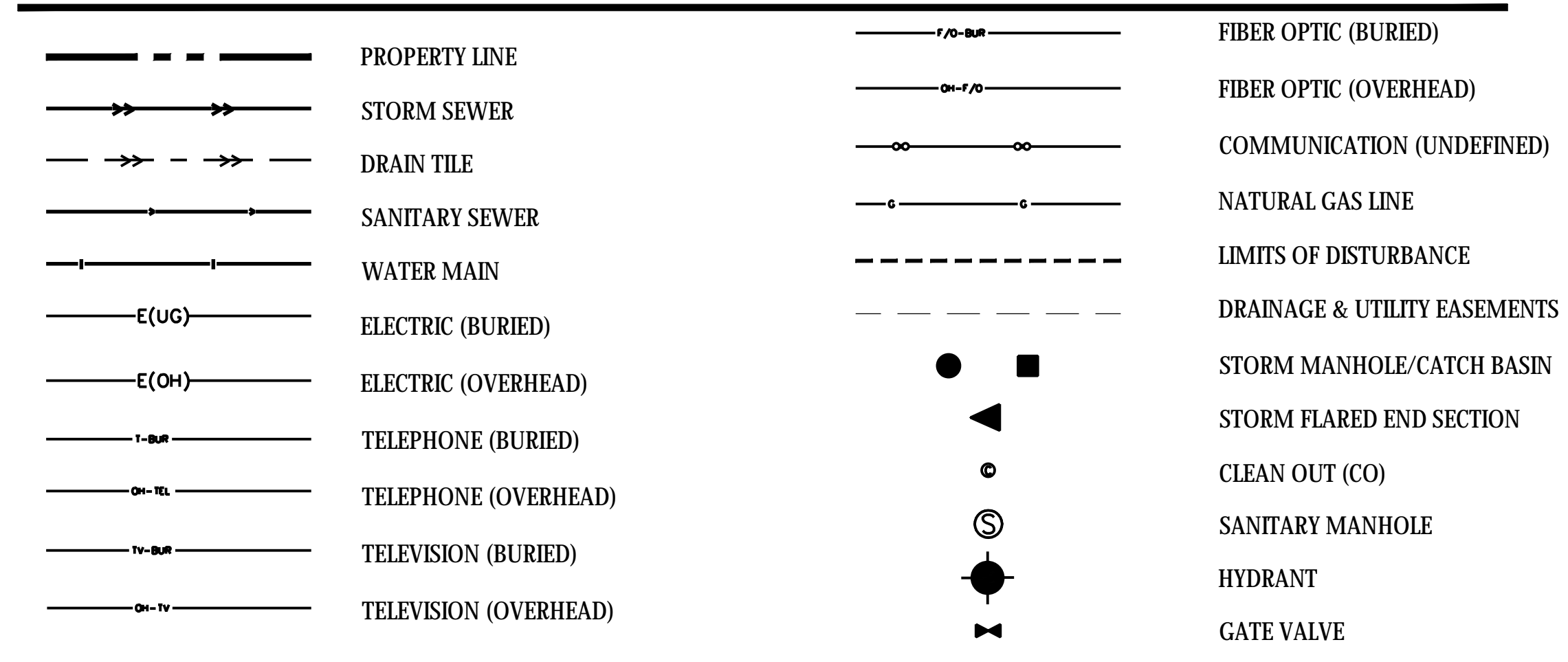
**C-103**



**UTILITY NOTES**

- THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 88-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL UTILITY LOCATES. CONTACT GOPHER STATE ONE CALL PER STATE STATUTES FOR PUBLIC UTILITY LOCATES PRIOR TO ANY EXCAVATION. THE CONTRACTOR MUST HIRE A PRIVATE UTILITY LOCATING SERVICE TO LOCATE PRIVATE UTILITIES IN THE CONSTRUCTION AREA PRIOR TO ANY EXCAVATION.
- SEE EXISTING CONDITIONS FOR SURVEY INFORMATION. THE ENGINEER CAN NOT BE HELD RESPONSIBLE FOR INACCURACIES RELATED TO THE SURVEY INFORMATION.
- COMPLY WITH ALL LOCAL AND STATE REQUIREMENTS FOR UTILITY MATERIALS, INSTALLATION, AND TESTING.
- OBTAIN ALL PERMITS OR APPROVALS FROM LOCAL UTILITY OWNERS PRIOR TO BEGINNING UTILITY INSTALLATIONS. NOTIFY UTILITY OWNERS OF THE START OF CONSTRUCTION FOR THE PROJECT AND ANY SPECIFIC UTILITY WORK AT LEAST 48 HOURS IN ADVANCE.
- FIELD VERIFY AND COORDINATE ALL BUILDING UTILITY CONNECTIONS AND PUBLIC UTILITY SERVICE CONNECTIONS PRIOR TO CONSTRUCTION, INCLUDING LOCATION, TYPE, SIZE, AND INVERT ELEVATION. NOTIFY ENGINEER OF ANY DISCREPANCIES FROM THE PLAN FOR RESOLUTION PRIOR TO BEGINNING UTILITY INSTALLATIONS.
- ADJUST, OR ARRANGE TO BE ADJUSTED BY UTILITY OWNER, ALL STRUCTURES, PUBLIC AND PRIVATE, TO PROPOSED GRADES WHERE DISTURBED. COMPLY WITH ALL REQUIREMENTS OF UTILITY OWNERS. STRUCTURES BEING RESET IN PAVED AREAS TO MEET OWNERS' REQUIREMENTS FOR TRAFFIC LOADING.
- SERVICE UTILITIES, SUCH AS ELECTRIC (TRANSFORMER), GAS, TELEPHONE, CABLE, FIBER OPTIC, AND OTHER RELATED SMALL UTILITIES, MAY BE SHOWN FOR GENERAL REFERENCE AND ARE DEEMED CONCEPTUAL LOCATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING ALL LOCATIONS OF SERVICE UTILITY CONNECTIONS AND RELATED ITEMS WITH SERVICE PROVIDERS.
- WATERMAIN AND WATER SERVICE CONNECTIONS TO BE CLASS 52 DUCTILE IRON PIPE (DIP), UNLESS NOTED OTHERWISE. MAINTAIN 7.5' OF COVER ON ALL NEW WATERMAIN. PROVIDE WATERMAIN THRUST RESTRAINTS AT CHANGE OF DIRECTION, AND PROVIDE 18" SEPARATION BETWEEN SEWER PIPE. ADJUST WATERMAIN VERTICALLY, AS NECESSARY, AS APPROVED BY THE ENGINEER. IF INSULATION IS REQUIRED, PROVIDE DOW STYROFOAM HI BRAND 35 OR EQUIVALENT, AT 4-INCH THICKNESS.
- WATERMAIN SHALL BE INSTALLED IN CONFORMANCE WITH THE CITY ENGINEER'S ASSOCIATION OF MINNESOTA (CEAM) STANDARDS OR THE CITY'S WATERMAIN INSTALLATION STANDARDS. WHERE CONFLICTS OCCUR, THE MORE RESTRICTIVE REQUIREMENT SHALL GOVERN.
- SANITARY SEWER PIPE OUTSIDE THE BUILDING SHALL BE POLYVINYL CHLORIDE (PVC) SDR35 OR 26. SDR 26 REQUIRED FOR DEPTHS GREATER THAN 15 FEET.
- STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP), WITH R-4 GASKETS. RCP CLASS 5 FOR PIPE DIAMETERS 18" OR SMALLER, CLASS 3 FOR PIPE DIAMETERS 21" AND LARGER UNLESS OTHERWISE NOTED. POLYVINYL CHLORIDE PIPE (PVC) TO BE SCHEDULE 40. IF ALLOWED BY THE CITY, HIGH DENSITY POLYETHYLENE PIPE (HDPE) SHALL MEET REQUIREMENTS OF ASTM F2648. PIPE SHALL BE WATER TIGHT ACCORDING TO ASTM D3212 REQUIREMENTS. FLARED END SECTIONS SHALL BE RCP WITH TRASH GUARDS AND ROCK RIP-RAP.
- OUTSIDE OF PUBLIC RIGHT OF WAY, INLET AND OUTLET CONNECTIONS TO SEWER STRUCTURES SHALL USE APPROVED RESILIENT RUBBER JOINTS TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCH BASINS, AND OTHER STRUCTURES.
- ALL MANHOLE COVERS TO BE STAMPED EITHER SANITARY OR STORM SEWER.
- PIPE LENGTHS THAT MAY BE SHOWN ARE HORIZONTALLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
- SITE UTILITY SERVICES TYPICALLY TERMINATE 5 FEET FROM BUILDING, UNLESS NOTED OTHERWISE.
- ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF CSA 4.23 CFR PART 1923, SUBPART P, "EXCAVATIONS AND TRENCHES." THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- DRAINTILE LOCATIONS AND QUANTITIES ARE APPROXIMATE AS ILLUSTRATED. FIELD VERIFY FINAL LOCATIONS.
- AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH AN AS-BUILT RECORD OF UTILITY CONSTRUCTION. THE AS-BUILT SHALL INCLUDE LOCATION AND LENGTH DEVIATIONS OR CHANGES TO THE PLAN. CONTRACTOR TO VERIFY WITH OWNER OR ENGINEER WHETHER A PLAN WITH POST-CONSTRUCTION ELEVATIONS IS REQUIRED.

**UTILITY LEGEND**



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**LAKE BYLLESBY  
 PARK PAVILION**

50% PROGRESS SET  
 NOT FOR CONSTRUCTION

9/22/2021

CLIENT  
**GOODHUE COUNTY**

No.	Description

SHEET NAME  
**UTILITY PLAN**

SHEET NUMBER  
**C-104**



**ARCHITECT OF RECORD**

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## LAKE BYLLESBY PARK PAVILION + BEACH BATH

50% PROGRESS SET  
NOT FOR CONSTRUCTION

9/21/2021

**CLIENT**  
**GOODHUE COUNTY**

5001 MN-19, Cannon Falls, MN 55009

No.	Description	Date

**SHEET NAME**

# LEGEND SHEET

**SHEET NUMBER**

# S001

SHEET LIST	
SHEET #	SHEET NAME
S402	TYPICAL MASONRY SCHEDULES AND DETAILS
S501	TYPICAL FOUNDATION SCHEDULES AND DETAILS
S001	LEGEND SHEET
S002	GENERAL STRUCTURAL NOTES
S003	GENERAL STRUCTURAL NOTES
S201	FOUNDATION PLAN
S202	ROOF FRAMING PLANS
S401	TYPICAL SCHEDULES AND DETAILS
S701	FRAMING DETAILS

**STRUCTURAL ABBREVIATIONS:**

A	H	Q
ADDL ADDITIONAL	HK HOOK	QTY QUANTITY
ADJ ADJACENT	HORIZ HORIZONTAL	R RADIUS
ALT ALTERNATE	HSA HEADED STUD ANCHOR	RD ROOF DRAIN
ALUM ALUMINUM	HSS HOLLOW STRUCTURAL SHAPE	REF REFERENCE
AR ANCHOR ROD	HT HEIGHT	REIN REQUIRED REINFORCEMENT/REINFORCING
ARCH ARCHITECT	I ID	REV REVISION
	INCL INSIDE DIAMETER	RO ROUGH OPENING
BDE BOTTOM OF DECK ELEVATION	ISF INSIDE FACE	RSS RUGGED STRUCTURAL SCREW
BFE BOTTOM OF FOOTING ELEVATION	J JOINT	RTU ROOF TOP UNIT
BM BEAM	JBE JOIST BEARING ELEVATION	
BOT BOTTOM		
BP BEARING PLATE / BASE PLATE		
BR BOTTOM REINFORCING		
BTWN BETWEEN		
CANTL CANTILEVER	K KIPS	SB SOIL BORING
CFS COLD-FORMED STEEL	KL FIVE LOAD	SC SLIP CRITICAL
CGS CENTER OF GRAVITY STRAND	KSF KIPS PER SQUARE FOOT	SCHED SCHEDULE
CIP CAST IN PLACE	KSI KIPS PER SQUARE INCH	SER STRUCTURAL ENGINEER OF RECORD
CJ CONTROL JOINT	KO KNOCK OUT	SF SQUARE FOOT
CJP COMPLETE JOINT PENETRATION		SM SIMILAR
CL CENTER LINE		SL SNOW LOAD
CLR CLEAR		SOG SLAB ON GRADE
CMU CONCRETE MASONRY UNIT	LB(S) POUND(S)	SPA SPACES
COL COLUMN	LL LIVE LOAD	SPEC SPECIFICATION
CONC CONCRETE	LLH LONG LEG HORIZONTAL	SPF SPRUCE PINE FIR
CONN(S) CONNECTION(S)	LLV LONG LEG VERTICAL	SS STAINLESS STEEL
CONST CONSTRUCTION	LONG LONG	SSLT SHORT-SLOT LOAD TRANSVERSE
CONT CONTINUOUS	LSL LAMINATED STRAND LUMBER	STD STANDARD
	LSH LONG SIDE HORIZONTAL	STIFF STIFFENER
	LSV LONG SIDE VERTICAL	STL STRUCTURE / STRUCTURAL
	LWT LIGHT WEIGHT	SYM SYMMETRICAL
	LVL LAMINATED VENEER LUMBER	SYP SOUTHERN YELLOW PINE
d NAIL DIAMETER		T TONGUE AND GROOVED
db BAR DIAMETER		TBE TOP OF BEAM ELEVATION
DBA DEFORMED BAR ANCHOR		TDE TOP OF DECK ELEVATION
DBL DOUBLE		TEMP TEMPORARY
DEG DEGREE		TFE TOP OF FOOTING ELEVATION
DEMO DEMOLITION		TGBE TOP OF GRADE BEAM ELEVATION
DF DOUGLAS FIR-LARCH		TPCE TOP OF PILE CAP ELEVATION
DIA DIAMETER		TPCPE TOP OF PRECAST PLANK ELEVATION
DIAG DIAGONAL		TPE TOP OF PIER ELEVATION
DIM DIMENSION		TR TOP REINFORCING
DL DEAD LOAD		TRANS TRANSVERSE
		TSE TOP OF SHEATHING ELEVATION
E EACH		TSE TOP OF SLAB ELEVATION
EF EACH FACE		TSE TOP OF SUBFLOOR ELEVATION
EL ELEVATION	NIC NOT IN CONTRACT	TWE TOP OF WALL ELEVATION
ELEC ELECTRICAL	N-S NORTH - SOUTH DIRECTION	
ELEV ELEVATOR	NTS NOT TO SCALE	
EJ EXPANSION JOINT	NWT NORMAL WEIGHT	
EMBED EMBEDMENT		
EQ EQUAL		
EQUIP EQUIPMENT		
ES EACH SIDE		
EW EACH WAY		
E-W EAST - WEST DIRECTION		
(E) EXISTING		
EXP EXPANSION		
F FOUNDATION		
FD FLOOR DRAIN		
FFE FINISHED FLOOR ELEVATION		
FLR FLOOR		
FLR FLOOR		
FS FOOTING STEP		
FT FEET		
FTG FOOTING		
FV FIELD VERIFY		
GA GAGE/GAUGE		
GALV GALVANIZED		
GB GRADE BEAM		
GC GENERAL CONTRACTOR		
GLB GLUE LAMINATED BEAM		
GR GRADE		
GSN GENERAL STRUCTURAL NOTES		
GWB GYPSUM WALL BOARD		

**MARKS AND SYMBOLS LEGEND:**

**MARKS:**

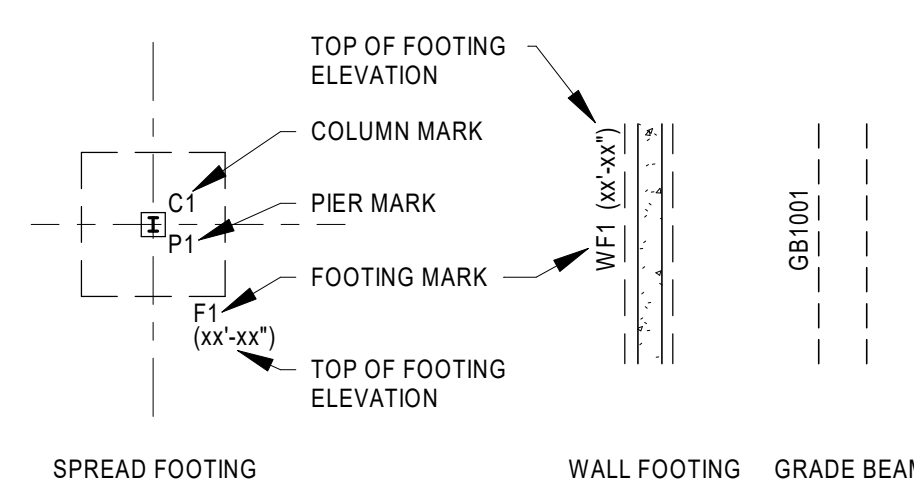
B1001	CONCRETE BEAM MARK NUMBER
B1001-PT	POST TENSIONED CONCRETE BEAM MARK NUMBER
BP1	BEARING / BASE PLATE MARK NUMBER
BRF1	BRACE FRAME MARK NUMBER
BR1	MILD STEEL BOTTOM REINFORCING MARK NUMBER
C1	COLUMN MARK NUMBER
CC1	CONCRETE COLUMN MARK NUMBER
CW1	CONCRETE WALL NUMBER
D1	STEEL DECK MARK NUMBER
DC1	DROP CAPITAL MARK NUMBER
DP1	DRILLED PIER MARK NUMBER
DPC1	DRILLED PIER CAP NUMBER
EP1	EMBEDDED PLATE MARK NUMBER
F1	SPREAD FOOTING MARK NUMBER
GB1	GRADE BEAM MARK NUMBER
H1	HEADER MARK NUMBER
HCP	HOLLOW CORE PLANK
HD1	HOLD DOWN MARK NUMBER
J10	JOIST MARK NUMBER
L1	LINTEL MARK NUMBER
LC1	LIGHT GAGE COLUMN MARK NUMBER
MC1	MASONRY COLUMN MARK NUMBER
MF1	MOMENT FRAME MARK NUMBER
MW1	MASONRY WALL NUMBER
P1	PIER MARK NUMBER
PC1	PILE CAP MARK NUMBER
RD1	ROOF DECK MARK NUMBER
S1	SLAB MARK NUMBER
SC1	STEEL COLUMN MARK NUMBER
SR1	STUD RAIL REINFORCING MARK NUMBER
SW1	SHEAR WALL MARK NUMBER
T1	TRUSS MARK NUMBER
TR1	MILD STEEL TOP REINFORCING MARK NUMBER
W1	WALL MARK NUMBER
WC1	WOOD COLUMN MARK NUMBER
WF1	WALL FOOTING MARK NUMBER
WO1	WEB OPENING

**GENERAL SYMBOLS:**

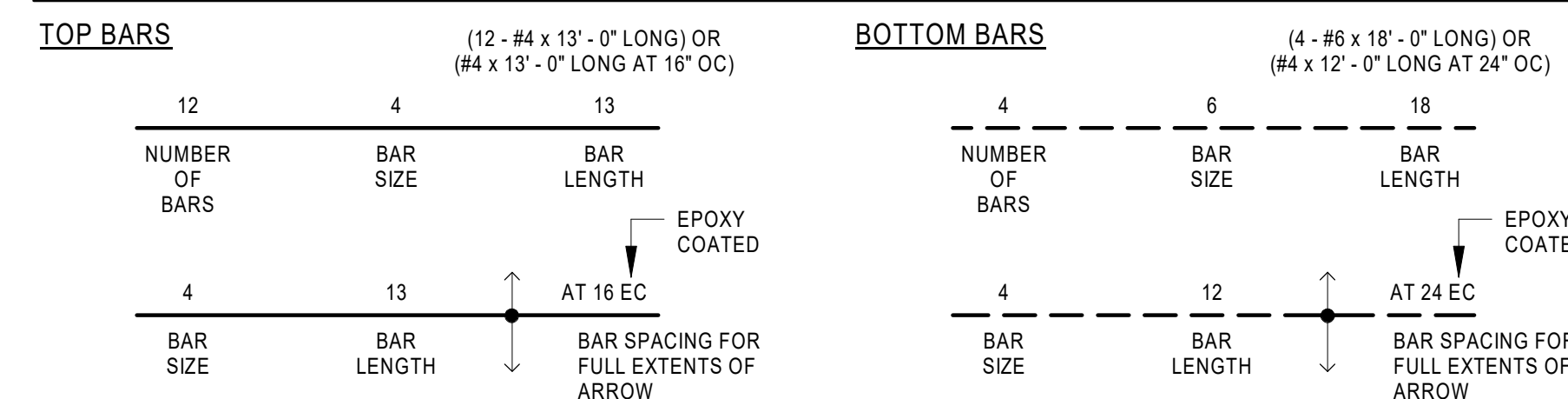
	APPROXIMATE LOCATION OF DRAIN TILE
	MATCH LINE
	LINE OF DEMOLITION
	SLAB STEP LOCATION WITH ELEVATIONS
	SLAB STEP LOCATION
	CHANGE IN SLAB SLOPE
	CHANGE IN SLAB THICKNESS
	KEYNOTE MARK NUMBER
	NEW BUILDING GRID LINE
	EXISTING BUILDING GRID LINE
	ELEVATION MARKER
	SHADED AREA INDICATES CUT THROUGH EXISTING CONSTRUCTION
	SHADED AREA INDICATES PROJECTION OF EXISTING CONSTRUCTION
	WALL MARK NUMBER OR WALL TYPE
	APPROXIMATE LOCATION OF UTILITY PIPE PENETRATION THROUGH FOUNDATION WALL
	FOOTING STEP LOCATION
	APPROXIMATE LOCATION OF SOIL BORING
	COMPRESSION PILE
	TENSION / COMPRESSION PILE
	TEST PILE
	SPAN DIRECTION OF ELEMENT
	EXTENT OF ELEMENT
	CONTINUOUS EXTENT OF ELEMENT
	DETAIL CALLOUT
	ELEVATION CALLOUT

**PLAN SYMBOLS LEGEND:**

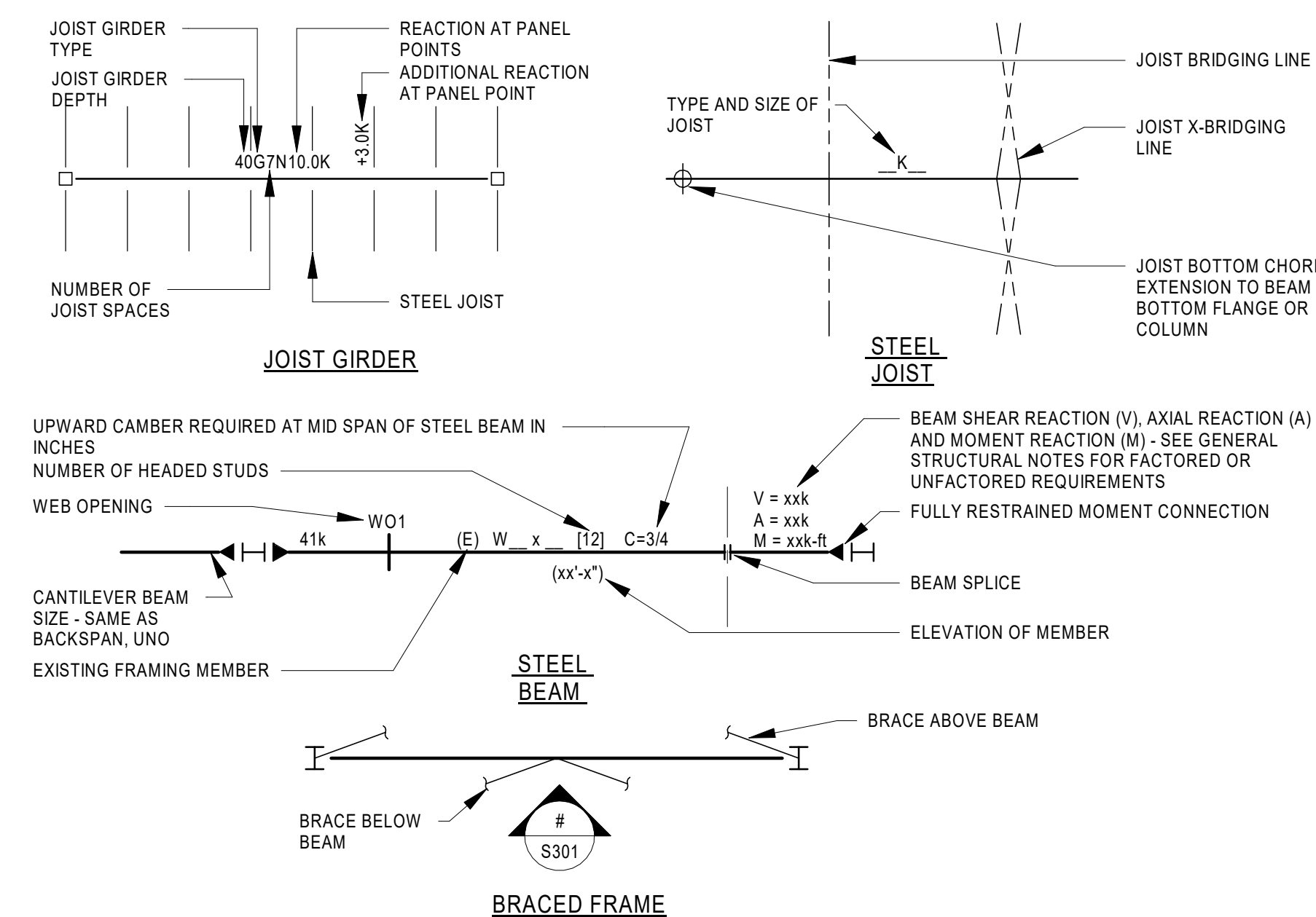
**FOUNDATION SYSTEM:**



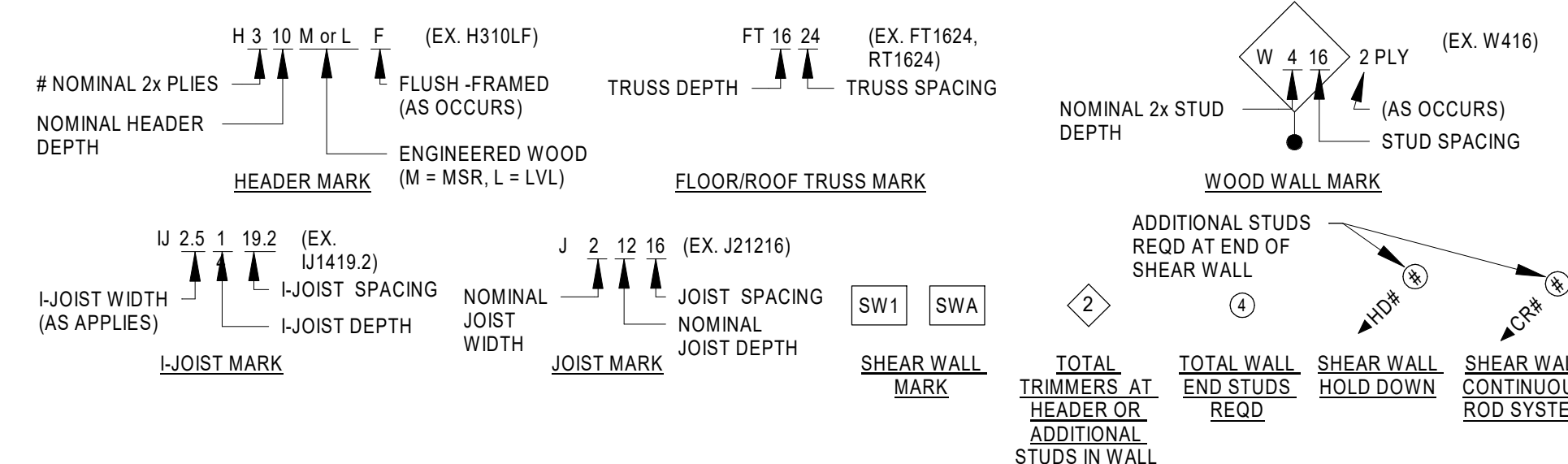
**REBAR FRAMING SYSTEM:**



**STEEL FRAMING SYSTEM:**



**WOOD FRAMING SYSTEM:**





**TYPICAL NOTES:**  
These notes specify the requirements for the design, represented in these documents. The construction and materials shall comply with all the pertinent codes and references, plans, and details, including (but not limited to) those shown in architectural, civil, mechanical and electrical drawings.

The Contractor shall verify all dimensions and existing conditions in the field that affect construction prior to commencing work on the affected element or shop drawing submittals. Resolve any discrepancies with the Architect prior to construction.

The contract structural drawings and specifications represent the completed structure. The Contractor is responsible for bracing and shoring (without oversteering) all structural elements as necessary at any stage of construction until completion of the project. The Structural Engineer of Record is not responsible for the Contractor's means, methods, sequences or procedures of construction. Contractor shall recognize and consider effects of thermal movements of structural elements during construction period.

The Contractor is solely responsible for site safety including all temporary precautionary measures and safety programs. Site observation visits by the Structural Engineer of Record do not include review of the contractor's safety precautions.

Refer to architectural, mechanical and electrical drawings for locations, elevations, dimensions, and details of sleeves, inserts, openings, recesses, curbs, housekeeping pads, etc. that are not shown on the structural drawings and do not damage structural members.

Information shown in the structural drawings regarding existing conditions represents the current and general field conditions related to the new work, to the best of our knowledge. Report all discrepancies (unforeseen conditions) to the Architect for resolution prior to performing related new work.

Requests for information shall be submitted in writing and shall reference the part of the construction documents that is in question.

**SPECIAL INSPECTIONS:**

Special inspections required by the building code and these documents shall be provided in addition to inspections to be performed by the city in which the project is located.

Contractor shall read and understand their duties in the specification and under the building code for special inspections and coordinate as necessary the Owner's responsibilities.

The Special Inspectors shall be provided by the Owner and shall use current structural drawings incorporating all revisions and approved shop drawings.

Special inspection reports are to be submitted promptly and within 24 hours to the Structural Engineer of Record and Contractor from the time when inspections are performed.

The General Contractor shall provide timely notice (minimum 24 hours) to the Special Inspector and sufficient time for the Inspector to perform their inspection.

For a schedule of Special Structural Inspections required by the building code for this project, see the Special Inspection Schedule.

**STRUCTURAL TEST AND SPECIAL INSPECTION SCHEDULE:**

	Continuous	Periodic	None
<b>1. STEEL CONSTRUCTION:</b> Section 1705.2.1 and Table 1705.2.2			
1.1 Fabricator Documentation - Note (1)	☐	■	☐
1.2 High Strength Bolting-Bearing Material	☐	■	☐
1.3 High-Strength Bolting-Slip-Critical and Material	☐	■	☐
1.4 Steel Material, Seismic - Section 1705.11.1	☐	■	☐
1.5 Welds: Full and Part Pen and Multi-Pass Fillet	■	☐	☐
1.6 Welds: Single Pass Fillet for All Sections	☐	☐	☐
1.7 Frame Joint Detail Compliance	☐	■	☐
<b>2. CONCRETE CONSTRUCTION:</b> Section 1705.3 Table 1705.3			
2.1 Member Shape and Size Compliance in Formwork	☐	■	☐
2.2 Reinl Steel and PT Tendons Size, Quantity and Placement	☐	☐	☐
2.3 Weldability of Reinforcing and Welds	☐	☐	☐
2.4 Anchors in Concrete	☐	☐	☐
2.5 Use of Required Mix Design	☐	☐	☐
2.6 Sample for Specimens and Tests	☐	☐	☐
2.7 Placement of CIP Concrete and Shotcrete	☐	☐	☐
2.8 Curing Compliance	☐	☐	☐
2.9 Strength for Stressing PT Tendons	☐	☐	☐
2.10 Prestressing Force Application	☐	☐	☐
2.11 Grouting Bonded Tendons - Seismic	☐	☐	☐
2.12 Strength for Formwork Removal	☐	☐	☐
2.13 Erection of Precast Members	☐	☐	☐
<b>3. WOOD CONSTRUCTION:</b> Section 1705.5			
3.1 Fabricator, Prefab Trusses and Panels, Note 1	☐	☐	■
3.2 High Load Diaphragms - Table 2306.2 (2)	☐	☐	■
<b>4. SOILS:</b> Section 1705.6 and Table 1705.6			
4.1 Bearing Material, Capacity and Depth	☐	■	☐
4.2 Compacted Fill Compliance With Soils Report	■	☐	☐
<b>5. PIER FOUNDATIONS:</b> Section 1705.8 and Table 1705.8			
5.1 Observation, Compliance and Records per Pier	☐	☐	■

- Notes:
- When the fabricator does not meet the requirements of 1704.2.5.2 and where applicable the exception in 1705.2, Special Inspection in the Fabricator's shop is required.
  - Empirically designed masonry is excluded.

**SHOP DRAWINGS:**

Submit shop drawing schedule with construction schedule that includes consideration for review period. See specification for additional information.

General contractor shall submit shop drawings in digital format for structural review. Digital drawings shall meet the following requirements.

- All pages are native .pdf files, rotated, printed to scale with searchable text.
- All transmittals shall be located as the first page of the submittal or as a separate file within one digital package.
- Contractor digital review comments and their digital stamp shall be attached. Our review will not occur until the contractor has reviewed, coordinated with other trades and provided shop stamp.
- MBJ will mark-up the digital set in red and return a digital file via email, ftp site or other means.

**DEFERRED SUBMITTALS:**

The following items shall be issued as deferred submittals per IBC:

- Concrete Formwork and Shoring
- Carbon Fiber Reinforced Polymer Concrete Strengthening
- Post-Tensioned Concrete Tendon Design
- Precast Concrete Hollow Core Planks
- Precast Structural Concrete
- Precast Concrete Wall Panels
- Architctural Precast Concrete
- Structural Steel Connections
- Steel Joist and Joist Girders
- Cold-Formed Steel Framing
- Metal Stairs, Handrails and Guardrails
- Shop Fabricated Metal Balconies
- Cable Barrier Systems
- Metal Building Systems
- Continuous Anchor Rod System
- Metal Plate Connected Wood Trusses
- Wood Joist
- Glued-Laminated Wood Construction
- Curtain Wall Framing
- Skylight Systems
- Fall Protection Systems
- Helical Piers

All engineering design provided by others and submitted for review shall bear the certification stamp and signature of a qualified Professional Engineer who is licensed in the state where the project is located. Under no circumstances will MJB review shop drawings that are considered to be scanned/copied construction document submittals. The Detailer shall produce and submit original documents for review.

All items issued as deferred submittals shall be issued a minimum of 30 days prior to installation and shall not be installed until their design and submittal documents have been reviewed for general conformance to the drawings by the General Contractor, the Structural Engineer of Record and the Building Official. A copy of the deferred submittal shall be forwarded to the Building Official after the Structural Engineer of Record has reviewed the documents and prior to the erection of the deferred submittal items.

**DESIGN CODES AND STANDARDS:**

2012 International Building Code, as amended and adopted by the state and city.

**MATERIAL PROPERTIES:**

Reinforcing Steel (Fy):		
Typical	60,000 psi	ASTM A615 Grade 60
Weldable	60,000 psi	ASTM A706 Grade 60

**Cast-in-Place Concrete (fc) at 28 days, u.n.o.:**

Controlled Low Strength Material (CLSM)	1,200 psi	Maximum
Footings	50 psi	Minimum
Concrete for Underpinning	4,000 psi	
Concrete Fill for Pipe Piles	3,000 psi	
Pile Caps	4,000 psi	
Grade Beams	4,000 psi	
Drilled Piers	4,000 psi	
Micropiles	4,000 psi	
Precast Prestressed Driven Piles	5,000 psi	
Piers and Walls (non-shear)	4,000 psi	
Non P-T Structural Slabs, and Beams	5,000 psi	
P-T Slab and Beams	6,000 psi	
	3,000 psi at 24 hours	
Shear Walls	4,000 psi	
Shear Walls, see schedule	Varies	
Columns	4,000 psi	
Columns, see schedule	Varies	
Concrete placed over Metal Floor Deck	4,000 psi	
Slabs on Grade	4,000 psi	
Exterior Concrete	4,500 psi w/ air entrainment	
All Concrete not otherwise noted	4,000 psi	

<b>Structural Steel (Fy):</b>		
Wide Flanges:	50,000 psi	ASTM A992
Angles, Channels, Plates, and Bars	36,000 psi	ASTM A36
Rectangular HSS	46,000 psi	ASTM A500, Grade B
Round HSS	42,000 psi	ASTM A500, Grade B
Steel Pipe	35,000 psi	ASTM A53, Grade B

<b>Structural Fasteners:</b>		
Typical High-Strength Bolts	120,000 psi	ASTM F3125 Grade A325
Twist-off Tension Control Bolts	120,000 psi	ASTM F3125 Grade1852,

<b>Type 1</b>		
High-Strength Bolts where noted	150,000 psi	ASTM F3125 Grade A490
Carbon Steel, Threaded Rods	36,000 psi	ASTM A36
Threaded Rods Grade B7 where noted	125,000 psi	ASTM A193
Stainless Steel, Threaded Rods	65,000 psi	ASTM F593
Anchor Rods, Grade 36 U.N.O.	48,000 psi	ASTM F1554
Anchor Rods, Grade 55 where noted	55,000 psi	ASTM F1554
Anchor Rods Grade 105 where noted	105,000 psi	ASTM F1554
Direct Tension Indicator Washers where noted	ASTM F959	

<b>SAWN LUMBER:</b>		
Hem Fir (HF) No. 2 or better: (Joists and Headers):	Fb 850 psi	
	Fc 1300 psi parallel to grain	
	Fv 150 psi	
	E 1,300,000 psi	

<b>STRUCTURAL COMPOSITE LUMBER:</b>		
Hem Fir (HF) No. 2 or better: (Joists and Headers):	Fb 850 psi	
	Fc 1300 psi parallel to grain	
	Fv 150 psi	
	E 1,300,000 psi	

<b>Doug Fir (DF) No. 2 or better: (Joists, Ledgers and Headers):</b>		
	Fb 900 psi	
	Fv 180 psi	
	E 1,600,000 psi	

<b>Spruce-Pine-Fir (SPF) No. 2 or better: (Studs and Built-up Posts)</b>		
	Fb 875 psi	
	Fc 1150 psi parallel to grain	
	Fc 425 psi perpendicular to grain	
	E 1,400,000 psi	

<b>Doug Fir (DF) #2 or better: (Studs and Built-up Posts)</b>		
	Fb 900 psi	
	Fc 1350 psi parallel to grain	
	Fc 625 psi perpendicular to grain	
	E 1,600,000 psi	

<b>Southern Yellow Pine (SYP) No. 2 or better: (Preservative Treated Wood)</b>		
	Fb 1500 psi	
	Fv 175 psi	
	Fc 1600 psi parallel to grain	
	Fc 565 psi perpendicular to grain	
	E 1,600,000 psi	

<b>Southern Yellow Pine (SYP): (Machine Stress Rated (MSR)):</b>		
	Fb 2400 psi	
	Fv 190 psi	
	Fc 1975 psi parallel to grain	
	Fc 805 psi perpendicular to grain	
	E 2,000,000 psi	

<b>Douglas Fir-Larch (DFL) No. 1 or better: (Heavy Timber, full sawn) (Beams and columns wider than 5")</b>		
	Fb 1200 psi	
	Fv 170 psi	
	Fc 1000 psi parallel to grain	
	Fc 625psi perpendicular to grain	
	Ft 825 psi	
	E 1,600,000 psi	

<b>Cedar No. 2 grade: (Wood Decks and Railings)</b>		
	Fb 1050 psi parallel to grain	
	Fv 75 psi perpendicular to grain	
	E 1,000,000 psi	

<b>STRUCTURAL COMPOSITE LUMBER:</b>		
Laminated Veneer Lumber (LVL): (Beams and Headers) (1 3/4" x Depth)	Fb 2900 psi	
	Fv 285 psi	
	Fc 750 psi perpendicular to grain	
	E 2,000,000 psi	

<b>Parallel Strand Lumber (PSL): (Columns and Posts)</b>		
	Fb 2400 psi tabulated	
	Fc 2500 psi parallel to grain	
	E 1,800,000 psi	

<b>Laminated Strand Lumber (LSL): (Rim Board)</b>		
	Fb 1700 psi	
	Fv 410 psi	
	Fc 750 psi perpendicular to grain	
	E 1,350,000 psi	

<b>Oriented Strand Board (OSB): (APA Rated Rim Board)</b>		
	Fbe 600 psi	
	Fve 270 psi	
	Fce 550 psi perpendicular to grain	
	E 550,000 psi	

**DESIGN LOADS:**

**LATERAL LOADS:**

<b>Risk Category:</b>	
<b>Wind Loads:</b>	
<b>Primary Frame Wind Data:</b>	
<b>Basic Wind Speed:</b>	V ult = 115 mph
<b>Exposure Category:</b>	C
<b>Internal Pressure Coefficient (Gcpi):</b>	+0.18 or -0.18
<b>Components and Cladding Wind Loads:</b>	
<b>Exterior Component/Cladding:</b>	Supplier to develop based on code criteria and indicate on shop drawings.

<b>Seismic Loads:</b>	
<b>Primary Seismic Data:</b>	No design required

<b>Primary Seismic Data:</b>	Ss: 0.171 S1: 0.057
<b>Mapped Spectral Response Accelerations:</b>	

<b>Site Class:</b>	D
<b>Site Coefficients:</b>	Fa = 1.2 Fv = 1.6

<b>Design Spectral Acceleration Parameters:</b>	Sds: 0.182 Sd1: 0.091
---	-----------------------

<b>Importance Factor:</b>	1.0
<b>Seismic Design Category:</b>	B

<b>Basic Seismic-Force- Resisting System:</b>	Steel Systems Not Specifically Detailed For Seismic Resistance, Excluding Cantilever Column Systems
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<b>Response Modification Factor:</b>	R = 3.0
<b>Overstrength Factor:</b>	Qo = 3.0
<b>Seismic Response Coefficient:</b>	Cs = 0.061

<b>Ultimate Design Base Shear:</b>	V = 0.061(W)
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<b>Analysis Procedure:</b>	Equivalent Lateral Force Procedure
----------------------------	------------------------------------

(User Note: Edit for appropriate lateral load resisting system type for project. Content below is just an example)

**LATERAL RESISTING SYSTEM:**

Steel frame is a "non-self-supporting" steel frame requiring interaction of the steel framing, floor/roof diaphragms and shear walls/braced frames/moment frames. Contractor shall provide temporary bracing as necessary to provide support of framing until all attachments are complete, including structural steel, structural steel to diaphragm/shear walls, and diaphragm to shear walls.

The lateral-load-resisting system and diaphragm elements that provide for lateral strength and stability in the completed structure include the following:

- Floor and roof deck and attachments including concrete topping on steel deck.
- Fully connected moment frames, brace frames, masonry shear walls, or concrete shear walls
- Framing members indicated as drag struts.
- Framing members with axial loads indicated for connection design.

**GRAVITY LOADS:**

<b>Dead Load:</b>	
<b>Roof:</b>	psf
<b>Floor:</b>	psf
<b>Snow Load:</b>	
Ground Snow Load, Pg:	50 psf
Flat-Roof Snow Load, Pf:	35 psf
Snow Exposure Factor, Ce:	1.0
Snow Load Importance Factor, I:	1.0
Thermal Factor, Ct:	1.0
Unbalanced/Drift Snow Load:	Refer to plan, U.N.O.

<b>Roof Live Load:</b>	
Live Load, (reducible):	20 psf
Net Uplift for Joist Design:	psf
Mechanical Room Hanging Loads:	40 psf
Hanging Catwalks:	75 psf
Mechanical and Electrical Equipment Units:	Refer to drawings, for the units' locations, sizes, and weights.
Future Mechanical and Electrical Units:	This project is not designed for future units. Refer to drawings, for the future units' locations, sizes, and weights used for framing design.

<b>Floor Live Loads:</b>	
Floor Topping and Finish Allowance:	20 psf
<b>Public Assembly:</b>	100 psf

**FOUNDATIONS:**

Refer to geotechnical report number \_\_\_\_\_ by \_\_\_\_\_, dated \_\_\_\_\_.

The Contractor shall verify the location of all existing and new underground utilities and tanks prior to beginning excavation.

For underground utilities adjacent to foundations and through foundations reference drawings for typical detail showing step footings below utilities as required to avoid undermining of structure by utilities.

**CONVENTIONAL FOOTINGS:**

Footings are designed for a maximum allowable soil bearing pressure of \_\_\_\_\_ pounds per square foot on undisturbed natural soil or compacted engineered fill. Soil bearing pressure is to be verified in the field during construction by a qualified Geotechnical Engineer.

-or-

Footings are designed for an assumed soil bearing pressure of 1,500 pounds per square foot per Section 1806.2 Presumptive Load Bearing Values. It shall be the Contractor's/Owner's responsibility to retain a Geotechnical Engineer to verify that this value may be achieved at the bottom of footing elevation with out damaging, differential settlement.

The quality of the bedrock shall be explored by the Owner's Geotechnical Engineer for the presence of soil filled seams at each column location. This shall be accomplished by drilling a 1 1/2" diameter test hole into the bedrock at each footing location prior to the placing of concrete. The depth of test hole will depend of the quality of the exposed rock, but shall not be less than 6'-0" below the bottom of the footing.

All topsoil, fill, organic, and/or other unsuitable bearing material shall be removed below the footings and/or within the building area to the depths indicated in the geotechnical engineering report and extent of removal shall be field verified by the Geotechnical Engineer.

All excavations shall be observed by a qualified Geotechnical Engineer to verify removal of all unsuitable material and confirm the proper preparation of bearing conditions. Rock excavation for individual footings is not expected to exceed five foot depth, U.N.O. No mass excavation is anticipated. Blasting is not permitted.

For footings that do not bear on natural undisturbed soil, extend engineered fill laterally beyond bottom edge of footing per recommendations in the geotechnical report.

Foundation and retaining walls shall be back filled with free draining fill approved by the Geotechnical Engineer. Provide drainage board and perforated pipe as required by the contract documents and verify with the Architect and Civil Engineer.

Backfill equally on both sides of foundation walls to prevent overturning or lateral wall movement, or brace as necessary.

For stepping of wall footings reference drawings for detail.

**REINFORCED CONCRETE:**

The detailing, fabrication and erection of all reinforcing shall be done in accordance with the latest edition of ACI-315, "Manual of Standard Practice for Detailing Reinforced Concrete Structures and ACI-318, "Building Code Requirements for Structural Concrete."

All reinforcing bars are deformed and continuous, unless noted otherwise. Refer to drawings for reinforcing lap length schedule.

Provide suitable wire spacers, chairs, etc. for support of reinforcing steel in proper position while placing concrete. All bars shall be tied to prevent displacement while placing concrete. All chairs and slab bolsters shall be plastic or steel with plastic tips. When reinforcing steel is epoxy coated or p/t tendons are fully encapsulated, all chairs and slab bolsters shall be epoxy coated or plastic and all support bars shall be epoxy coated. Chairs are to be stable and resist tipping.

The fabricator shall submit a complete list of accessories and placing details with the shop drawings.

No horizontal







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**MECHANICAL & ELECTRICAL ENGINEER**  
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**LAKE BYLLESBY  
PARK PAVILION +  
BEACH BATH**

**50% PROGRESS SET  
NOT FOR CONSTRUCTION**

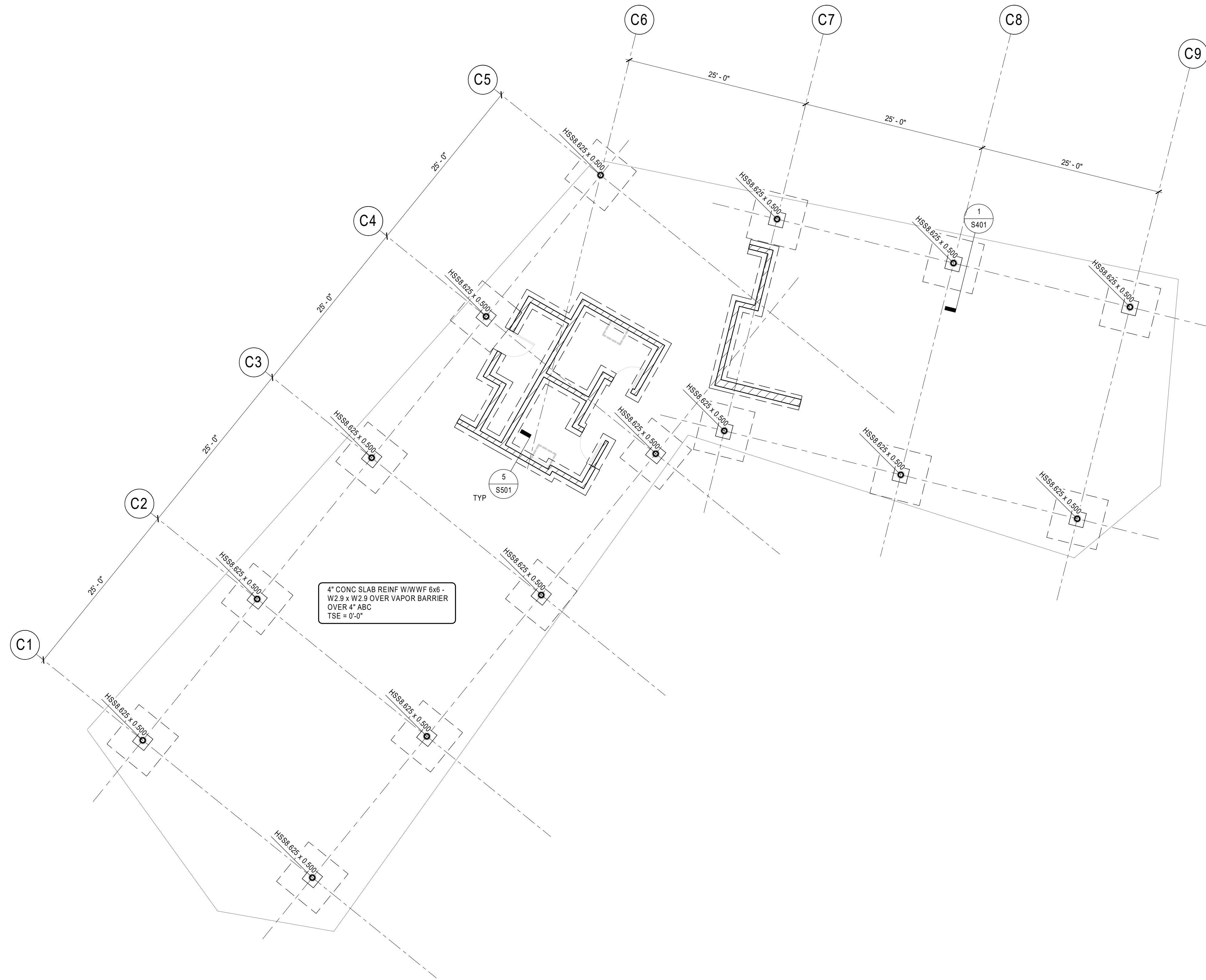
9/21/2021

**CLIENT**  
**GOODHUE COUNTY**  
5001 MN-19, Cannon Falls, MN 55009

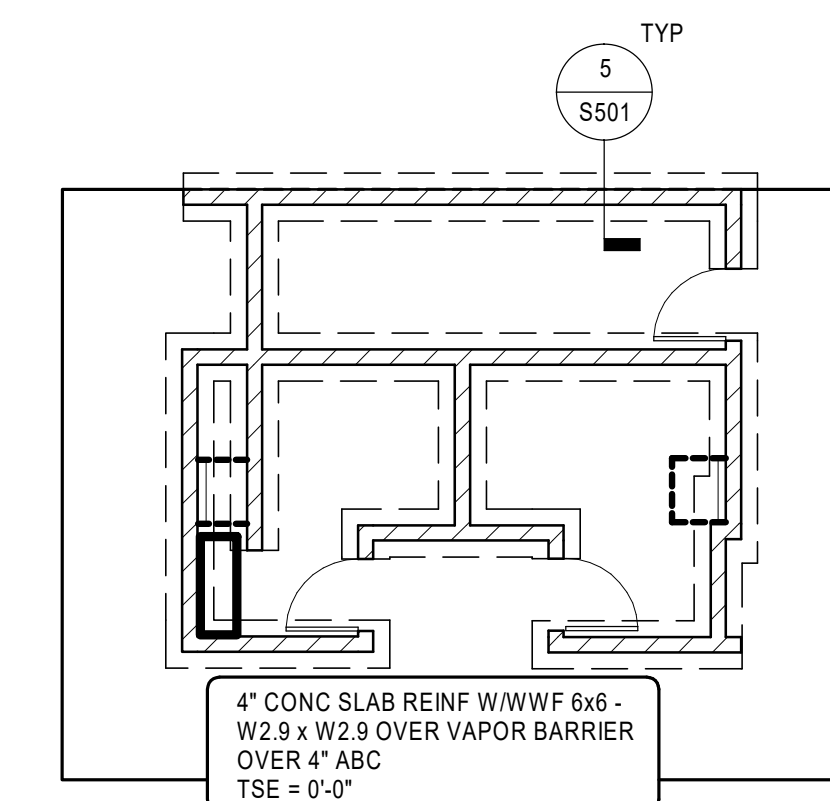
No.	Description	Date

**SHEET NAME**  
**FOUNDATION  
PLAN**

**SHEET NUMBER**  
**S201**



**1** NEW PAVILION FOUNDATION PLAN  
1/8" = 1'-0"



**2** BEACH BATH FOUNDATION PLAN  
1/8" = 1'-0"



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St Paul, MN 55114  
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**LAKE BYLLESBY  
PARK PAVILION +  
BEACH BATH**

50% PROGRESS SET  
NOT FOR CONSTRUCTION

9/21/2021

**CLIENT**  
**GOODHUE COUNTY**  
5001 MN-19, Cannon Falls, MN 55009

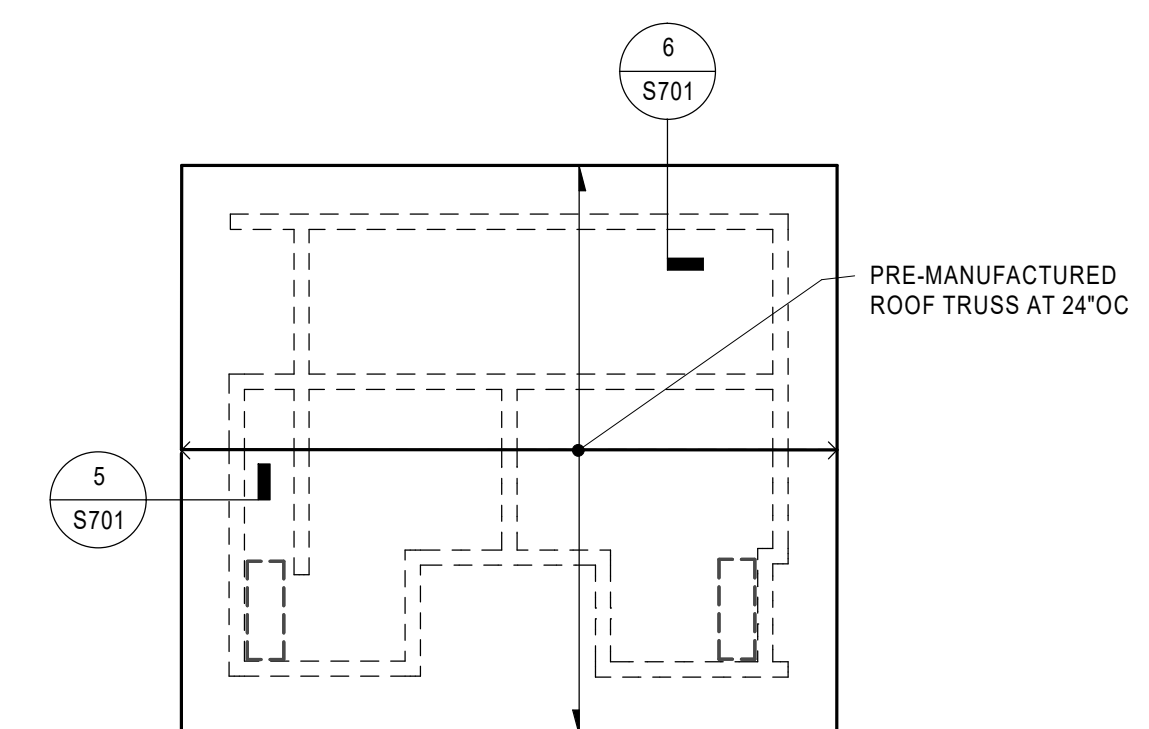
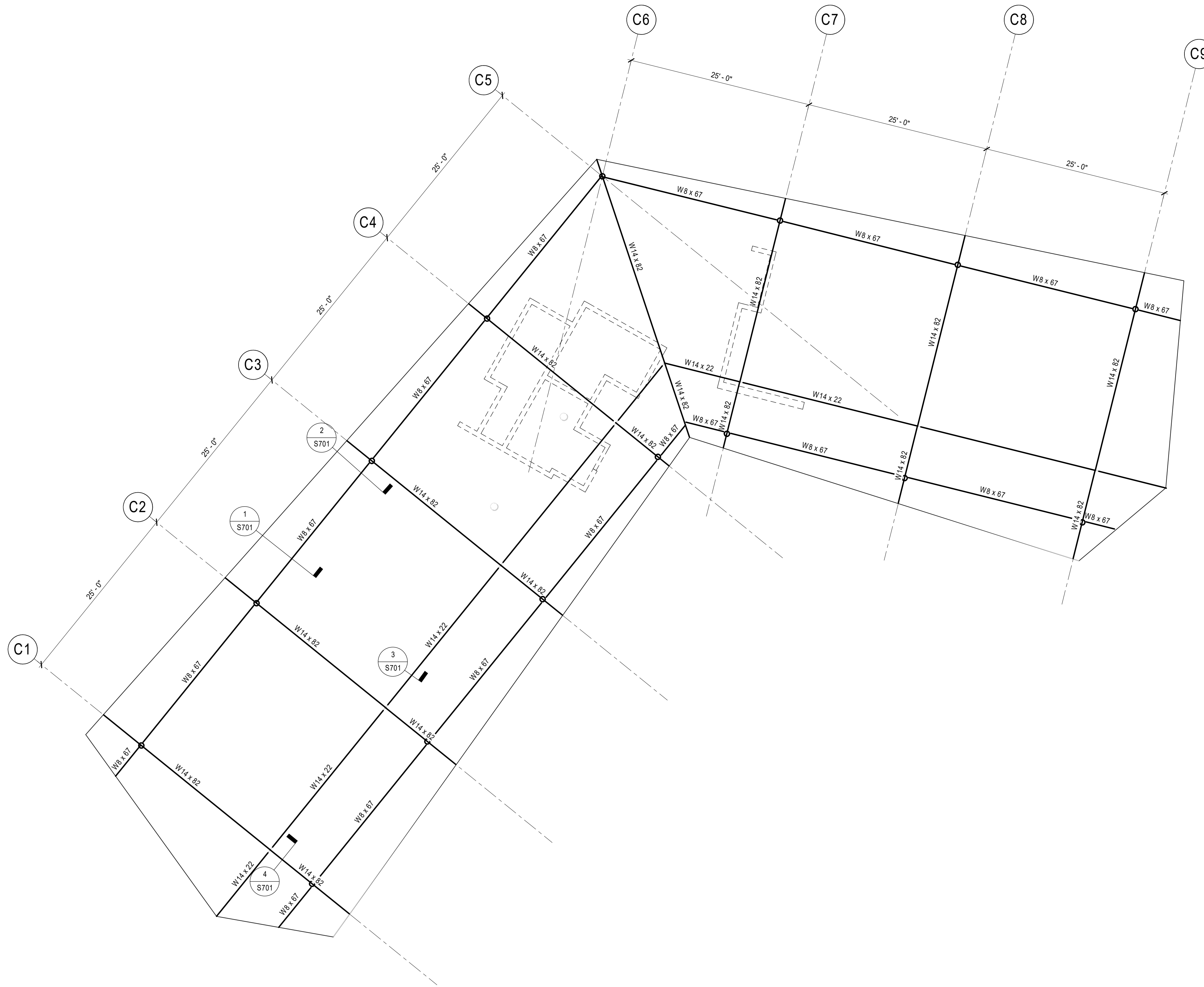
No.	Description	Date

SHEET NAME

**ROOF  
FRAMING  
PLANS**

SHEET NUMBER

**S202**



1 NEW PAVILION ROOF FRAMING PLAN  
1/8" = 1'-0"

2 BEACH BATH ROOF FRAMING PLAN  
1/8" = 1'-0"



**ARCHITECT OF RECORD**

LOCUS ARCHITECTURE  
4453 Nicollet Ave,  
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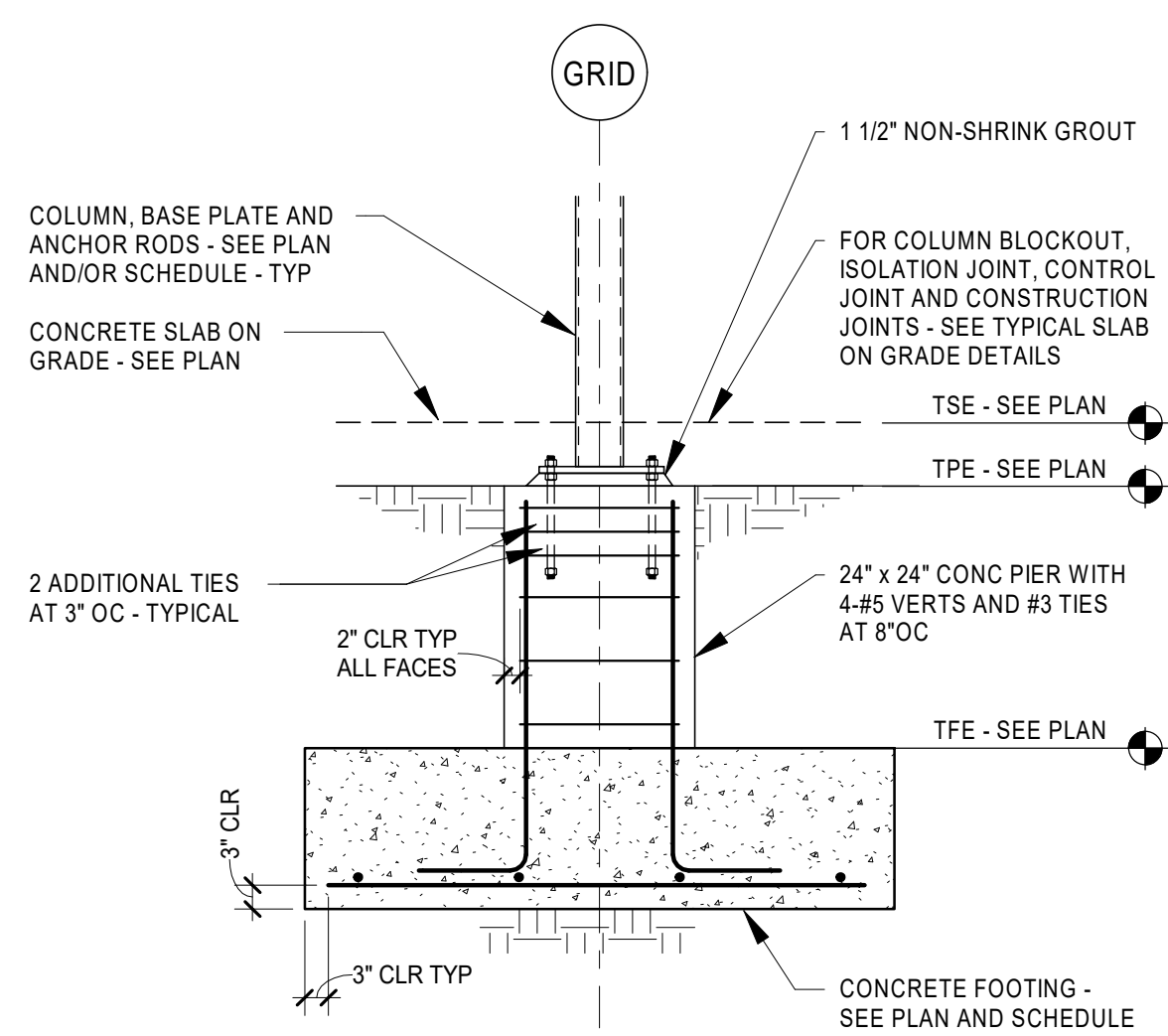
No.	Description	Date

**SHEET NAME**

**TYPICAL  
SCHEDULES  
AND DETAILS**

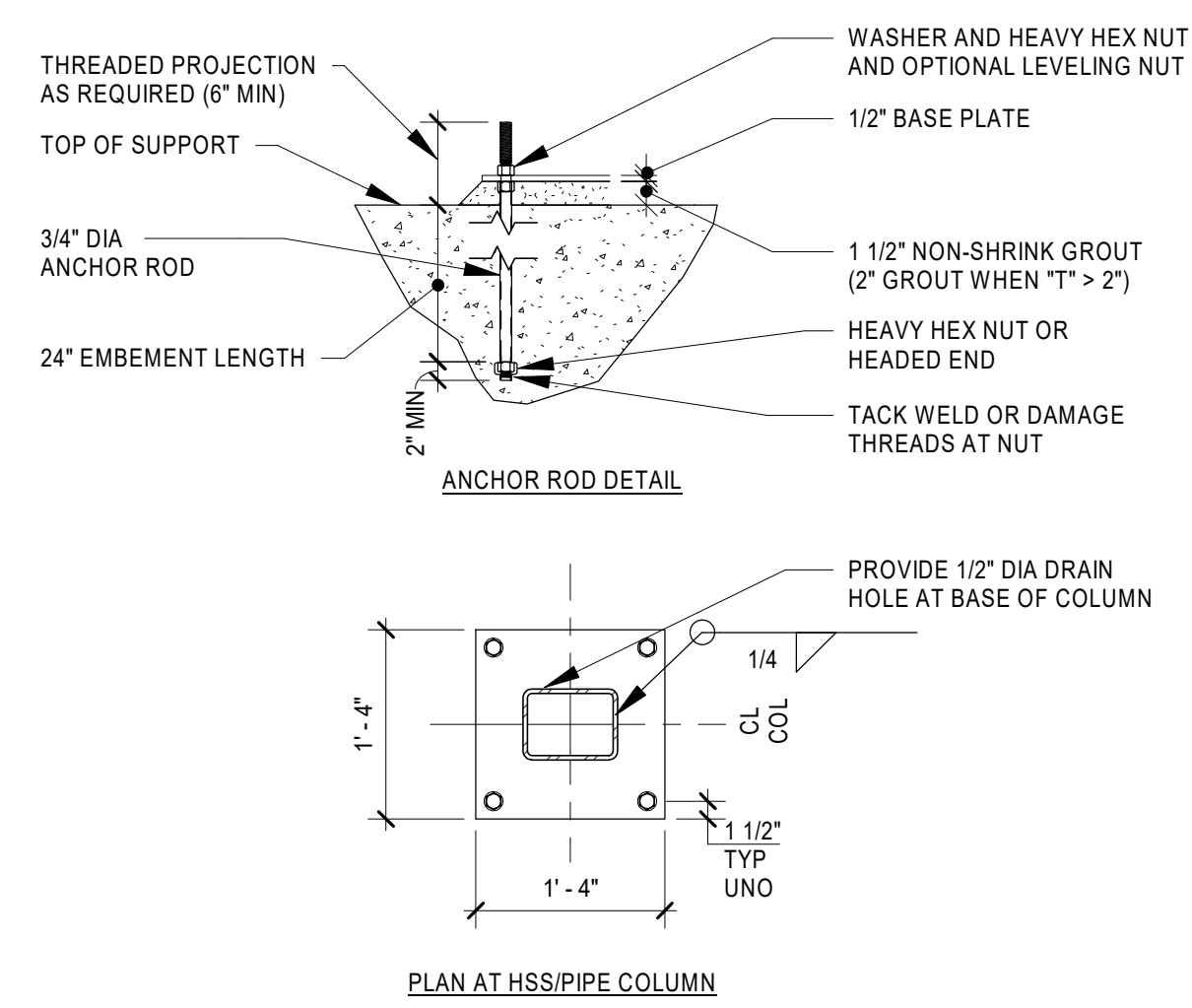
**SHEET NUMBER**

**S401**



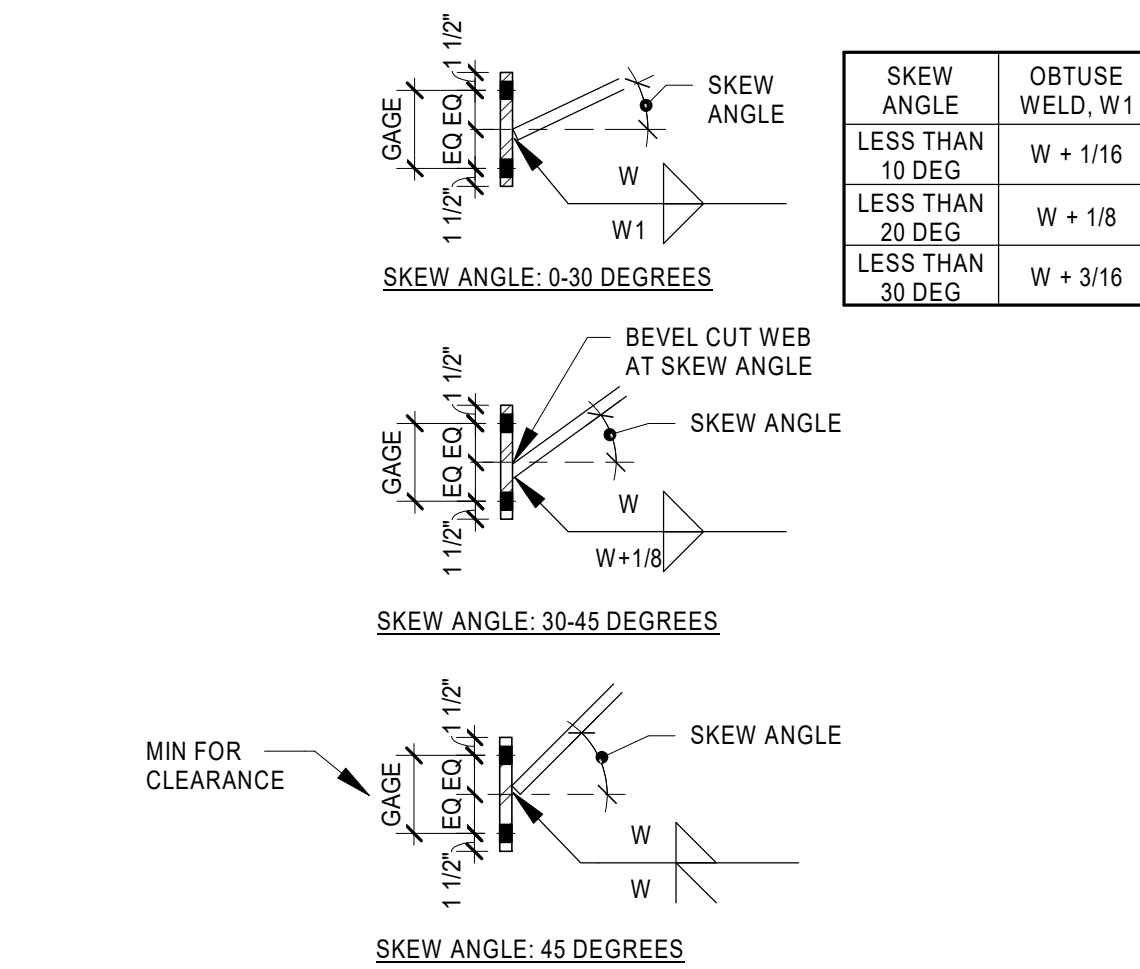
**1**  
TYPICAL HSS/PIPE COLUMN, CONCRETE PIER AND FOOTING DETAIL

S401 NO SCALE



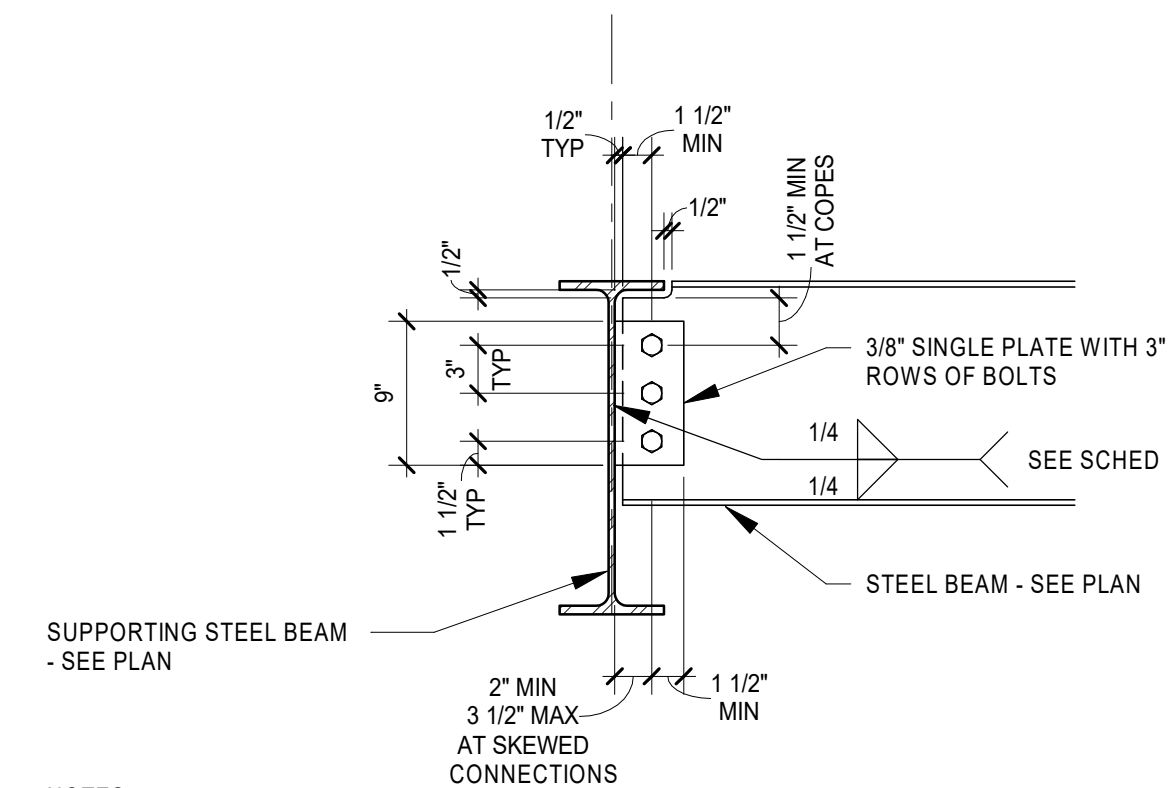
**2**  
TYPICAL COLUMN BASE PLATE DETAILS

S401 NO SCALE



**3**  
TYPICAL SKEWED BOLTED / WELDED SHEAR END PLATE DETAIL

S401 NO SCALE



**NOTES:**  
1. BOLTS SHALL BE 3/4\"/>

**4**  
TYPICAL SINGLE PLATE CONNECTION DETAIL

S401 NO SCALE







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No.	Description	Date

SHEET NAME

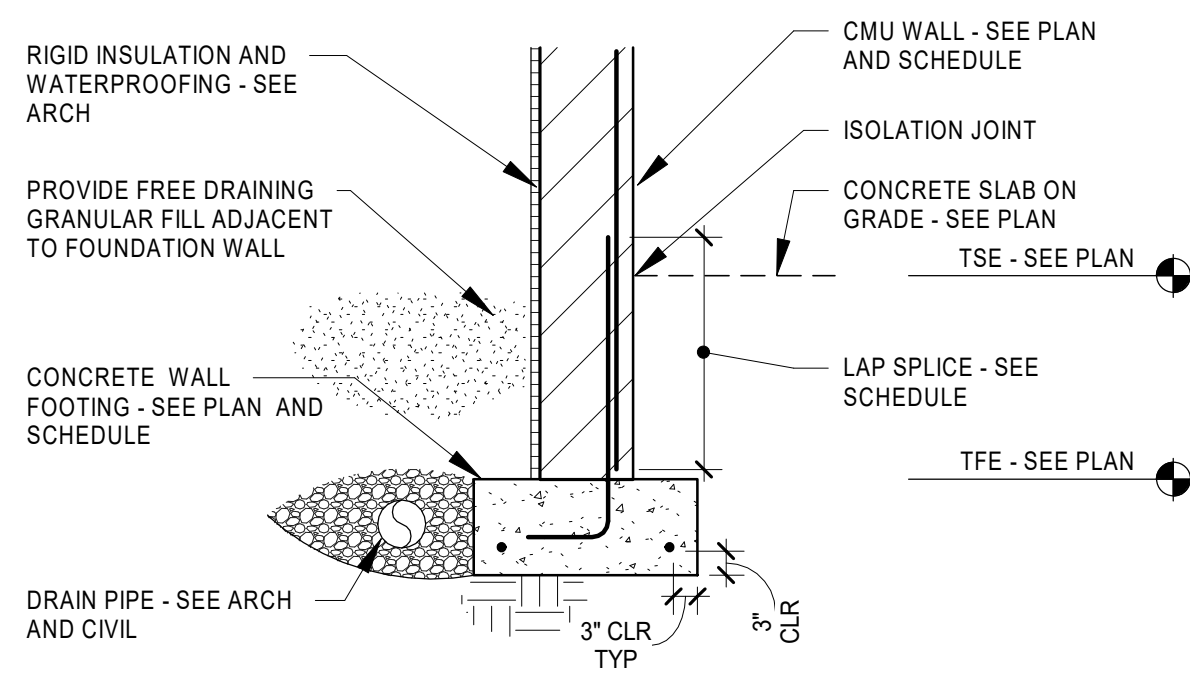
**TYPICAL  
FOUNDATION  
SCHEDULES  
AND DETAILS**  
SHEET NUMBER  
**S501**

CONCRETE PAD FOOTING SCHEDULE						
MARK	SIZE			REINFORCING - BOTTOM BARS		COMMENTS
	LENGTH	WIDTH	THICKNESS	LONG	TRANS	

- NOTES:  
1. SEE TYPICAL FOOTING DETAILS FOR ADDITIONAL INFORMATION.  
2. LONGITUDINAL (LONG) BARS ARE PARALLEL TO FOOTING LENGTH DIMENSION AND TRANSVERSE (TRANS) BARS ARE PARALLEL TO FOOTING WIDTH DIMENSION  
3. CENTER FOOTING ON COLUMN, PIER OR WALL UNLESS NOTED OTHERWISE.  
4. SEE GEOTECHNICAL REPORT FOR SUBGRADE REQUIREMENTS.  
5. FOR RECTANGULAR FOOTINGS, LONGITUDINAL BARS ARE TO BE THE BOTTOM LAYER OF REINFORCING.

**1 CONCRETE PAD FOOTING SCHEDULE**

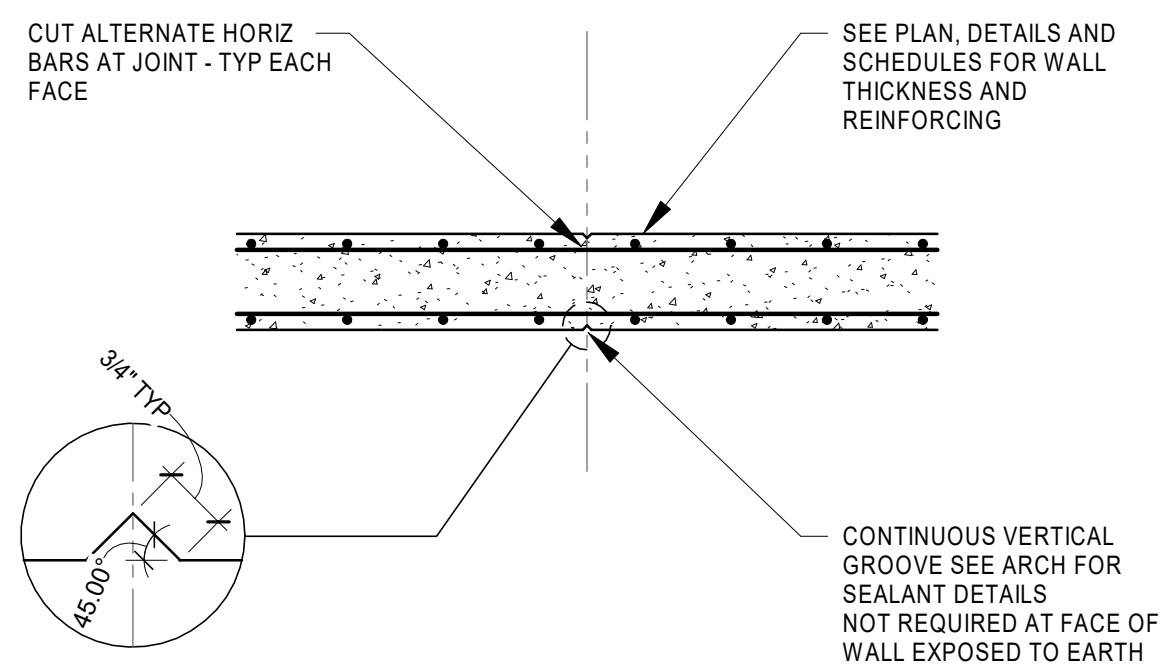
S501 NO SCALE



- NOTES:  
1. STRUCTURAL SLAB AT TOP OF WALL MUST BE IN PLACE WITH POSITIVE CONNECTION TO TOP OF ALL AND CURED A MINIMUM OF 72 HOURS BEFORE BACKFILL IS PLACED ABOVE LEVEL OF CONCRETE SLAB ON GRADE.

**5 TYPICAL CMU WALL AND FOOTING DETAIL**

S501 NO SCALE



- NOTES:  
1. SUBMIT PROPOSED JOINT LOCATIONS FOR APPROVAL IF NOT SHOWN ON DRAWINGS.  
2. MAXIMUM SPACING OF CONTROL JOINTS IS 20 FT ON CENTER OR 1 1/2 TIMES THE WALL HEIGHT ON CENTER, WHICHEVER IS LESS.  
3. DO NOT USE THIS DETAIL FOR SHEAR WALLS OR WALLS THAT SPAN HORIZONTALLY.

**9 TYPICAL VERTICAL CONTROL JOINT FOR CONCRETE WALLS**

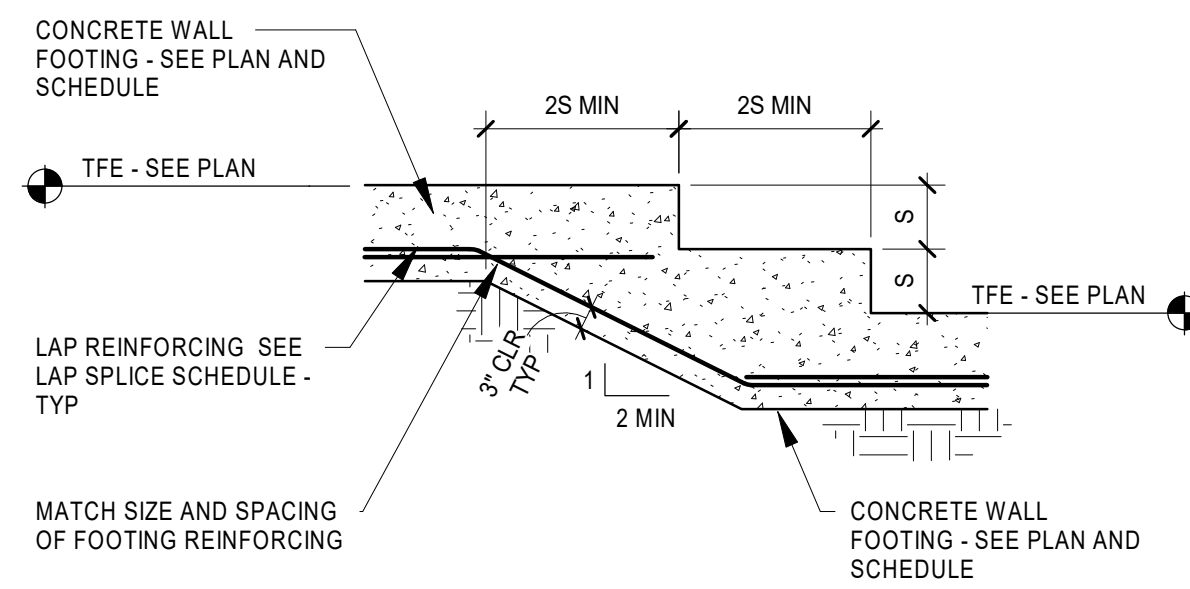
S501 NO SCALE

PIER SCHEDULE				
PIER MARK	SIZE	REINFORCING		COMMENTS
		VERTICAL BARS	TIES	

- NOTES:  
1. SEE TYPICAL COLUMN, PIER AND FOOTING DETAIL FOR ADDITIONAL INFORMATION.  
2. SEE TYPICAL CONCRETE PIER BAR AND TIE LAYOUT FOR REINFORCING CONFIGURATIONS.  
3. PROVIDE STANDARD 90 DEGREE HOOK AT VERTICAL (VERT) BARS TO FOOTING.  
4. CONTRACTORS OPTION PROVIDE HOOKED DOWELS LAP SPICED TO VERTICAL REINFORCING. MATCH SIZE AND LOCATION OF VERTICAL REINFORCING.

**2 CONCRETE PIER SCHEDULE**

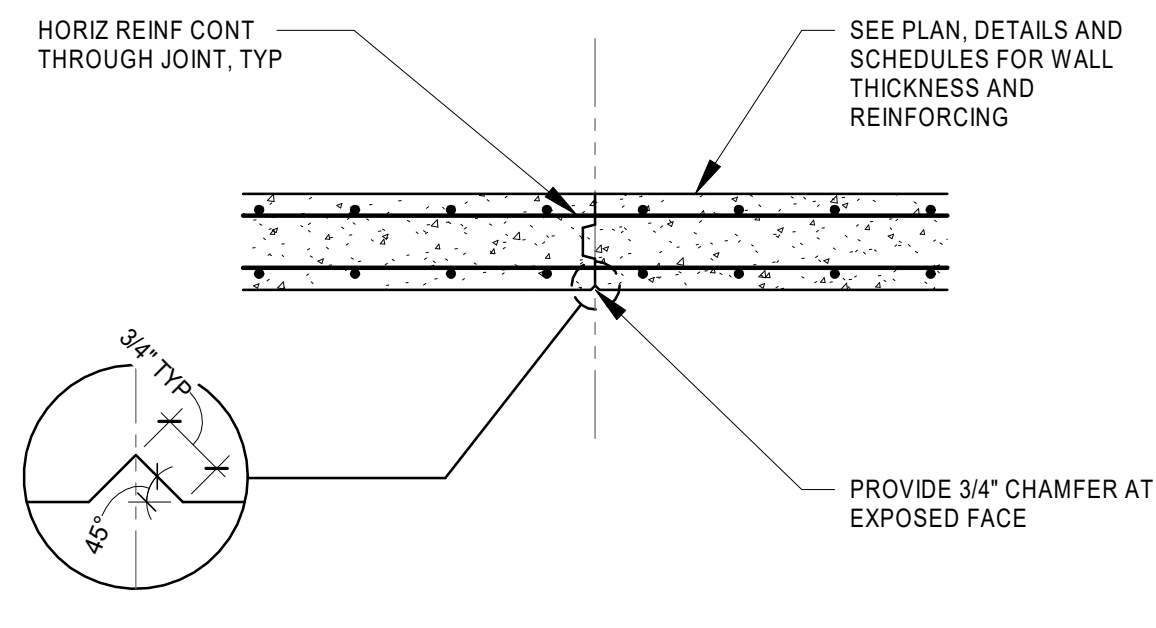
S501 NO SCALE



- NOTES:  
1. SEE PLAN FOR FOOTING STEP LOCATIONS.  
2. 'S' SHALL NOT EXCEED 16" FOR CMU WALLS OR 24" FOR CAST-IN-PLACE OR PRECAST CONCRETE WALLS.

**6 TYPICAL WALL FOOTING STEP**

S501 NO SCALE



- NOTES:  
1. SUBMIT PROPOSED JOINT LOCATIONS FOR APPROVAL.  
2. JOINTS SHALL BE LOCATED NO CLOSER THAN 5'-0" FROM WALL CORNERS OR PILASTERS.  
3. JOINTS SHALL BE SPACED A MAXIMUM OF 60 FT OC.  
4. WHERE WALL SPANS HORIZONTALLY, LOCATE JOINT WITHIN THE MIDDLE THIRD SPAN, UNO.  
5. USE 2X4 KEYWAY (1 1/2" x 3 1/2") FOR WALLS UP TO 16" THICK. USE 2x6 KEYWAY (1 1/2" x 5 1/2") FOR WALLS >16" TO 24" THICK.

**10 TYPICAL VERTICAL CONSTRUCTION JOINTS FOR CONCRETE WALLS**

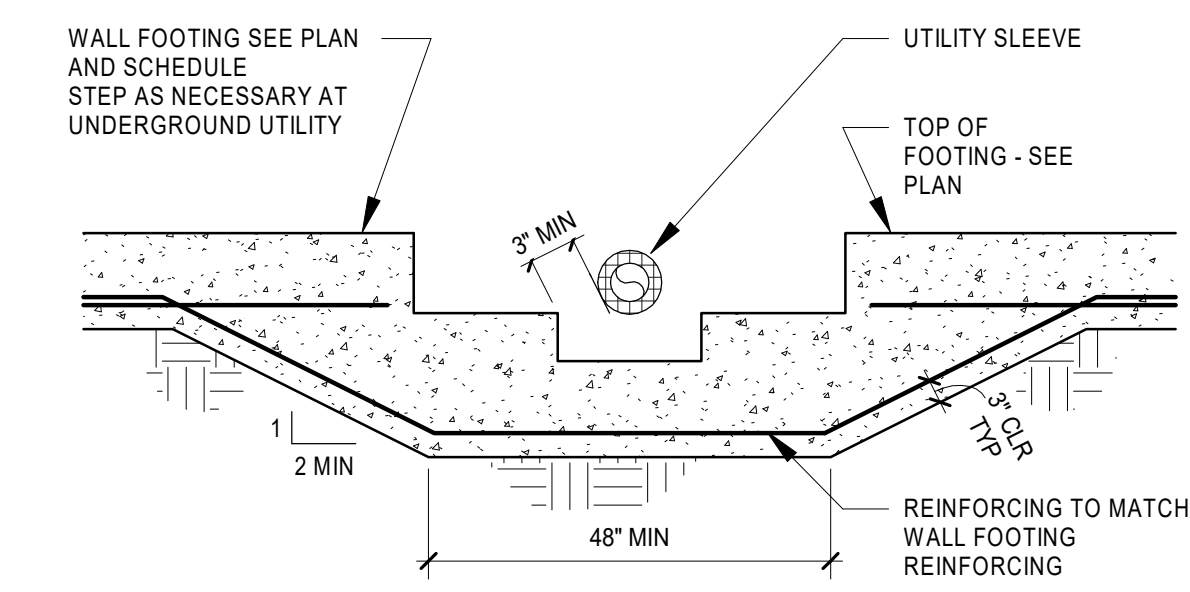
S501 NO SCALE

BAR SIZE	CONCRETE REINFORCING BAR LAP SPlice SCHEDULE							
	f <sub>c</sub> = 3,000 PSI		f <sub>c</sub> = 4,000 PSI		f <sub>c</sub> = 5,000 PSI		f <sub>c</sub> ≥ 6,000 PSI	
	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
#3	18"	22"	16"	20"	14"	18"	12"	16"
#4	22"	30"	20"	26"	18"	22"	16"	20"
#5	28"	36"	24"	32"	22"	28"	20"	26"
#6	34"	44"	30"	38"	26"	34"	24"	32"
#7	48"	64"	42"	54"	38"	50"	34"	44"
#8	56"	72"	48"	62"	44"	56"	40"	52"
#9	62"	82"	54"	70"	48"	64"	44"	58"
#10	70"	92"	62"	80"	54"	70"	50"	64"
#11	78"	102"	68"	88"	60"	78"	56"	72"

- NOTES:  
1. REINFORCING BAR LAP SPlice SCHEDULE APPLIES TO UNCOATED, GRADE 60 REINFORCING BARS IN NORMAL WEIGHT CONCRETE.  
2. PROVIDE CLASS A LAP UNLESS NOTED OTHERWISE.  
3. FOR EPOXY COATED BAR, MULTIPLY THE ABOVE LENGTHS BY 1.5.  
4. FOR LIGHT WEIGHT CONCRETE, MULTIPLY THE ABOVE LENGTHS BY 1.3.  
5. FOR TOP BARS IN BEAMS AND HORIZONTAL WALL REINFORCING, MULTIPLY THE ABOVE LENGTHS BY 1.3.  
6. MAXIMUM SPACING OF BARS BEING LAPPED IS ONE FIFTH THE LAP SPlice LENGTH, NOT TO EXCEED 6".

**3 REINFORCING BAR LAP SPlice SCHEDULE**

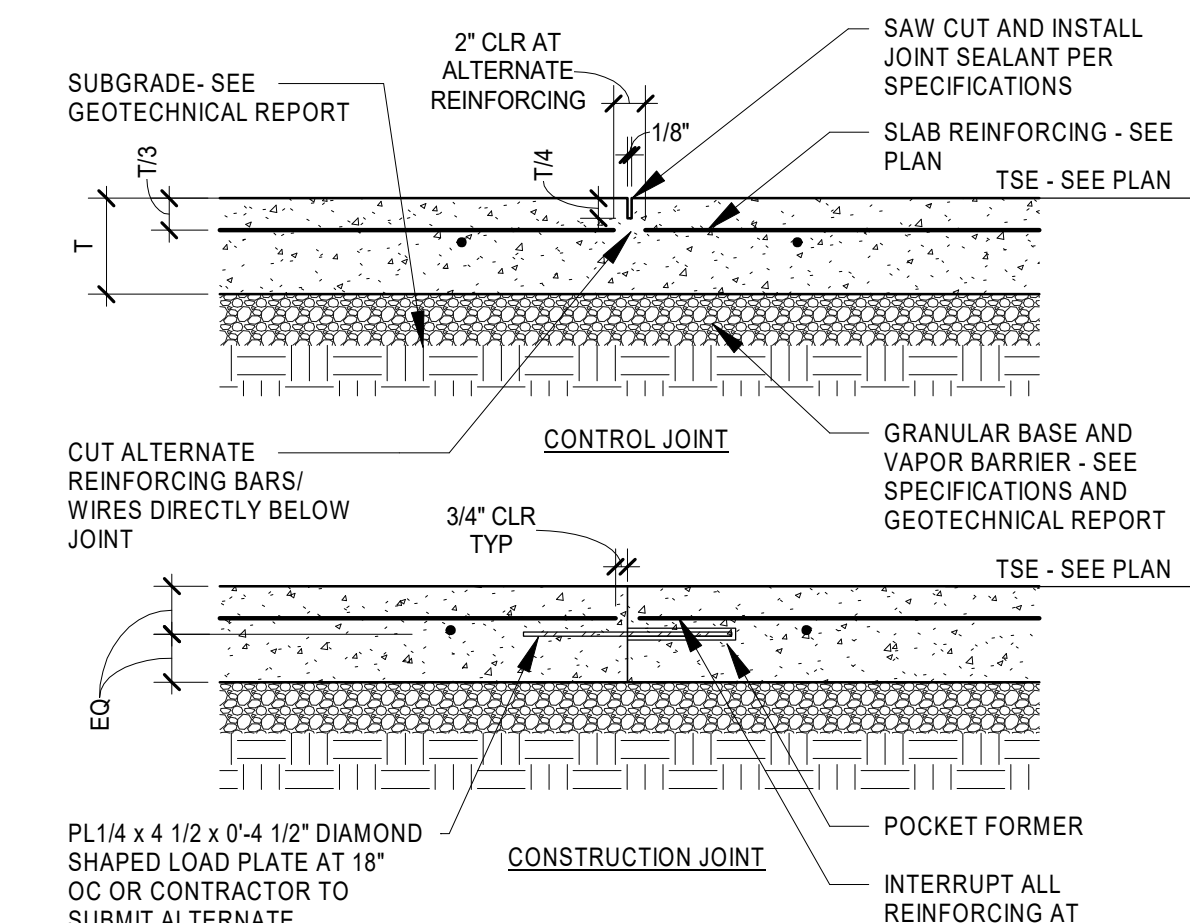
S501 NO SCALE



- NOTES:  
1. SEE TYPICAL WALL FOOTING STEP DETAIL FOR ADDITIONAL INFORMATION.  
2. UTILITY SLEEVE DIAMETER TO BE 2" GREATER THAN UTILITY PIPE OUTSIDE DIAMETER. INSULATE WITH 1" COMPRESSIBLE MATERIAL BETWEEN SLEEVE AND UTILITY.  
3. AT FOOTINGS BELOW CMU WALLS, COORDINATE WALL FOOTING STEP LOCATIONS WITH CMU COURSING.

**7 TYPICAL STEPPED WALL FOOTING AT UTILITIES**

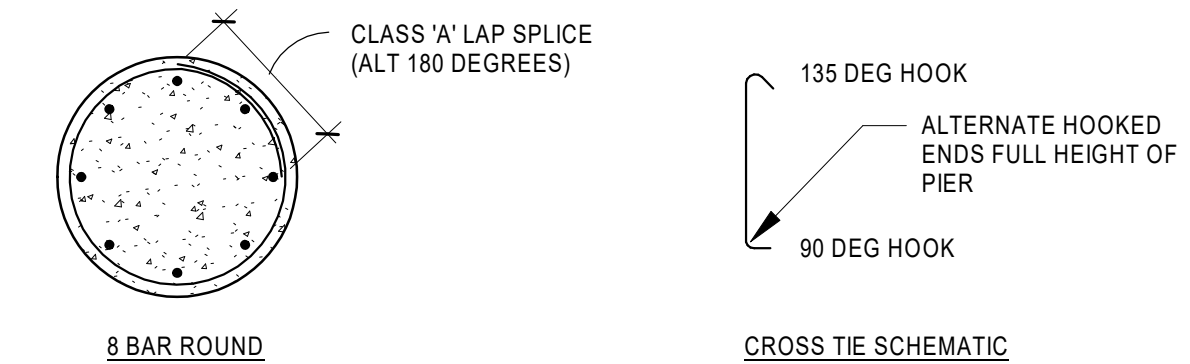
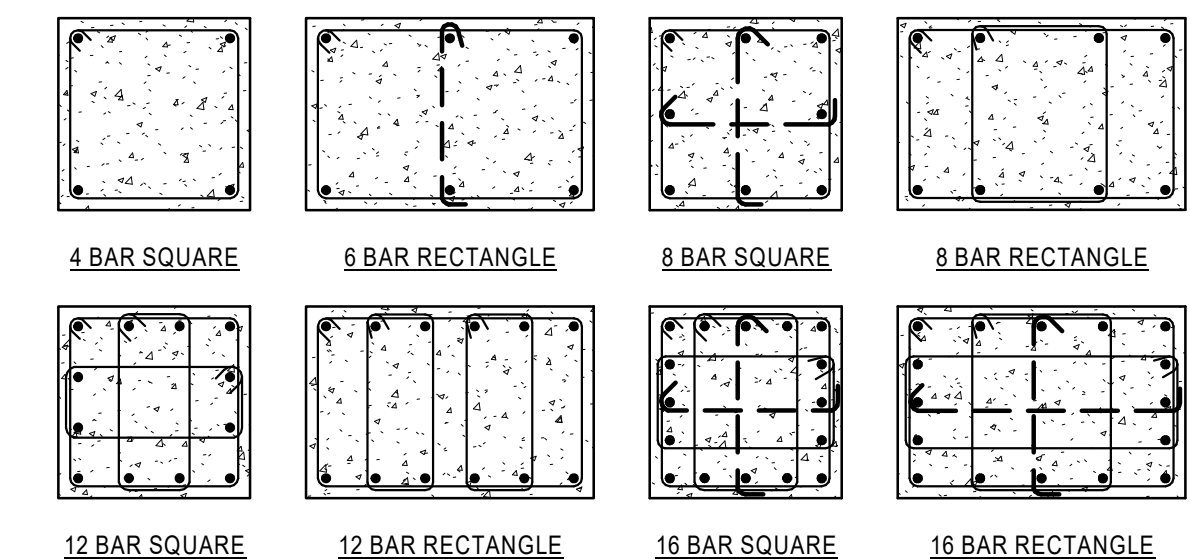
S501 NO SCALE



- NOTES:  
1. PROVIDE CHAIRS FOR SUPPORT OF REINFORCING.  
2. AT EXTERIOR SLAB ON GRADE LOCATIONS, VAPOR BARRIER IS NOT REQUIRED.  
3. PROVIDE DIAMOND SHAPED LOAD PLATE COMPLIANT WITH ACI 302.1R.

**11 TYPICAL SLAB ON GRADE CONSTRUCTION**

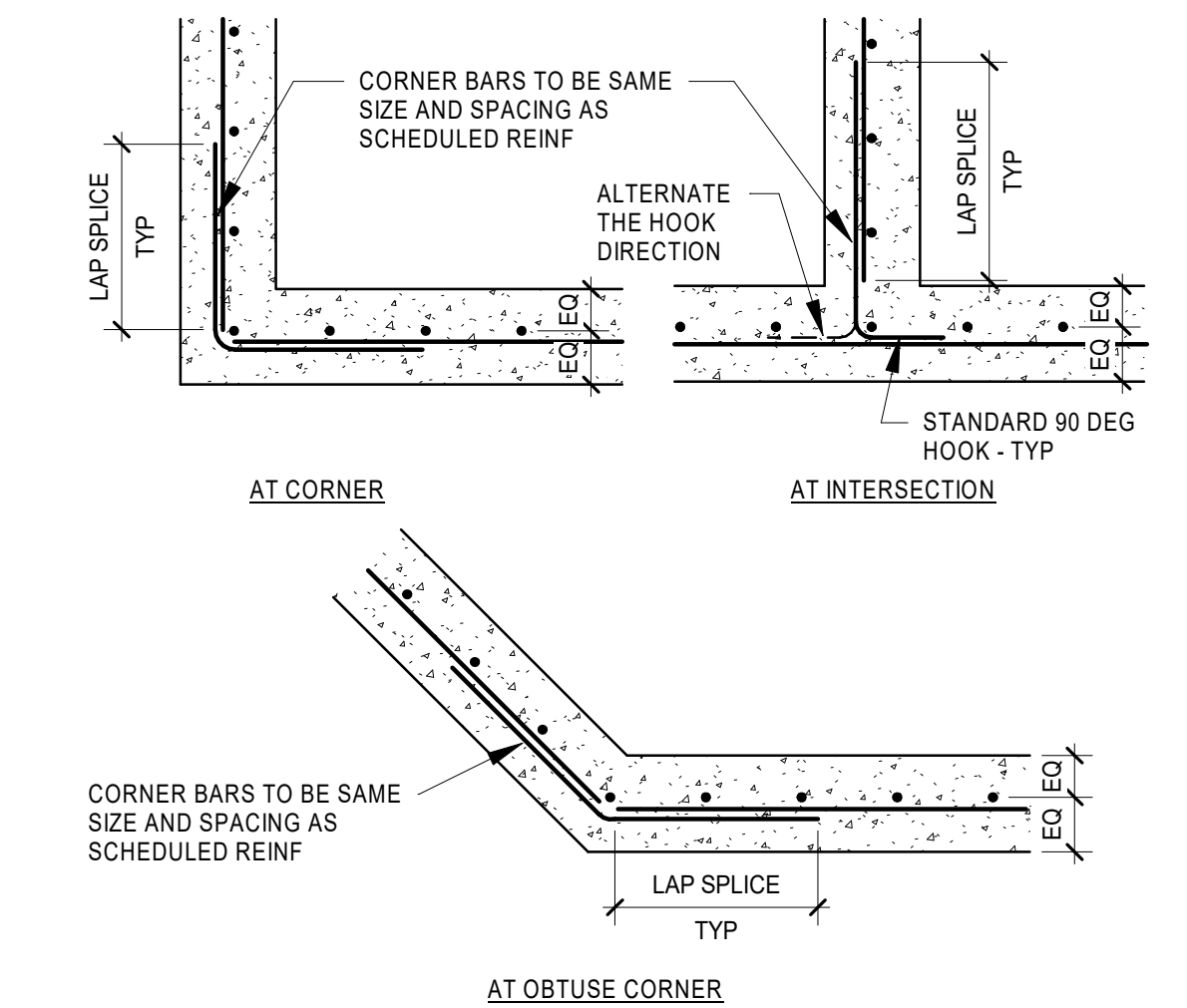
S501 NO SCALE



- NOTES:  
1. IF CLEAR SPACING BETWEEN VERTICAL BARS IS GREATER THAN 6", PROVIDE ADDITIONAL CROSS TIES, SHOWN DASHED.

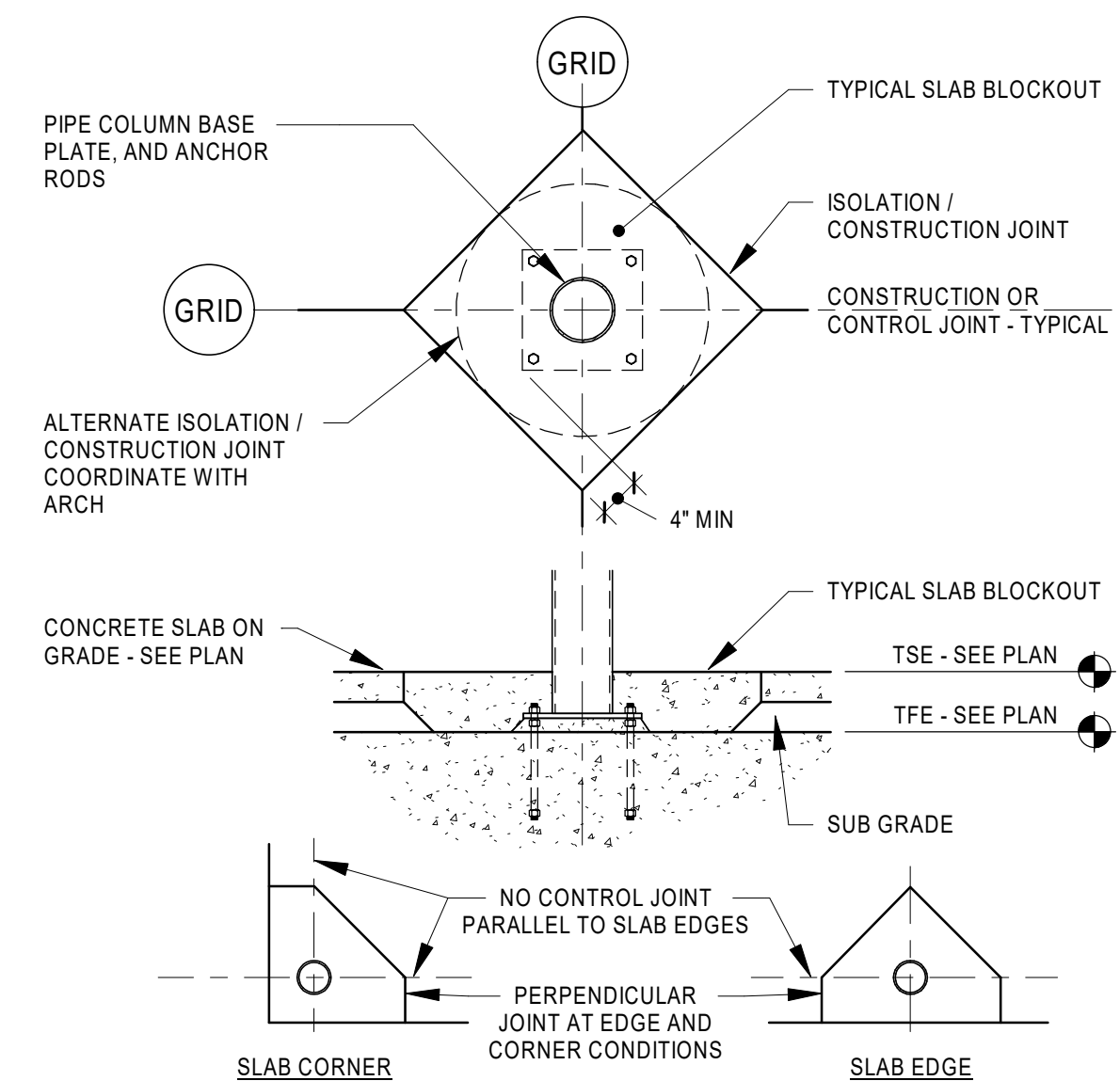
**4 CONCRETE PIER BAR AND TIE LAYOUT**

S501 NO SCALE



**8 TYPICAL CORNER BAR PLACING DETAIL**

S501 NO SCALE



**12 TYPICAL COLUMN ISOLATION JOINT**

S501 NO SCALE



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CLIENT  
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5001 MN-19, Cannon Falls, MN 55009

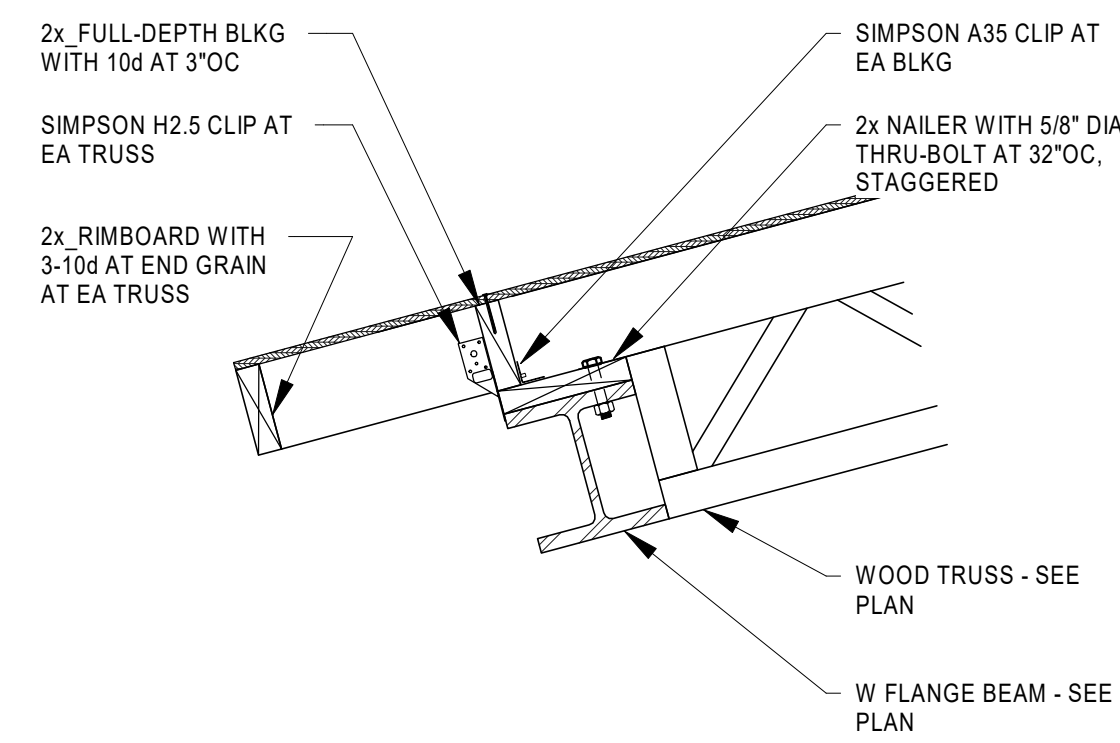
No.	Description	Date

SHEET NAME

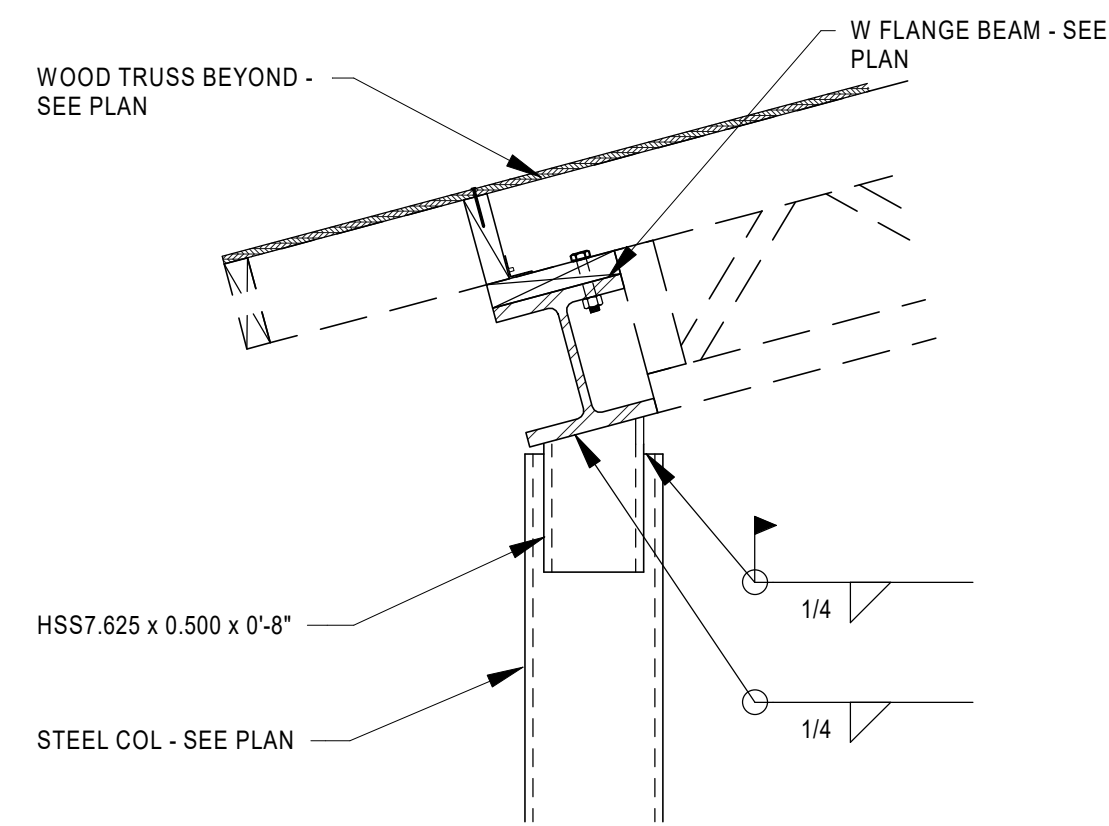
**FRAMING  
DETAILS**

SHEET NUMBER

**S701**

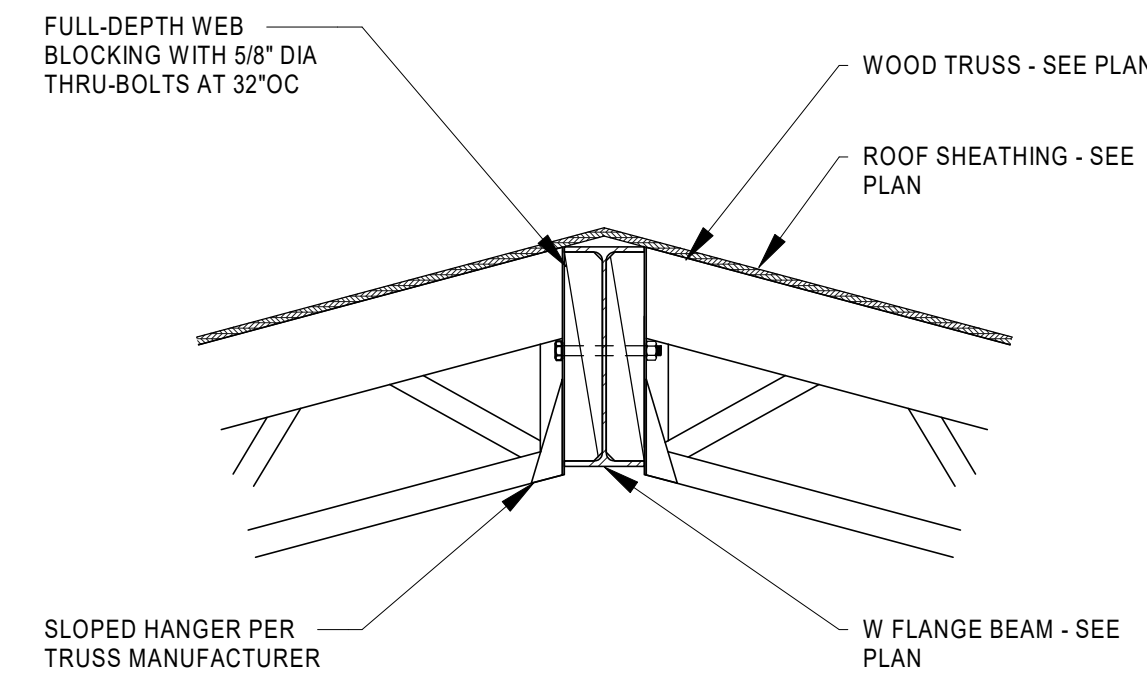


**1 SECTION**  
S701 1" = 1'-0"

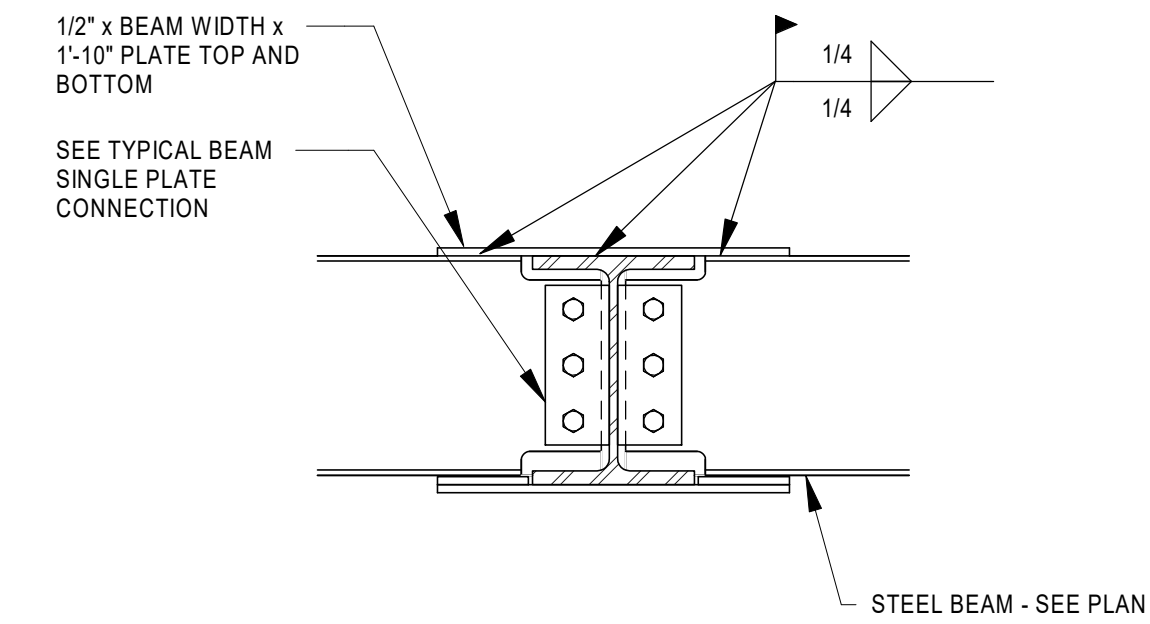


NOTES:  
1. SEE 1/S701 FOR INFO NOT SHOWN

**2 SECTION**  
S701 1" = 1'-0"

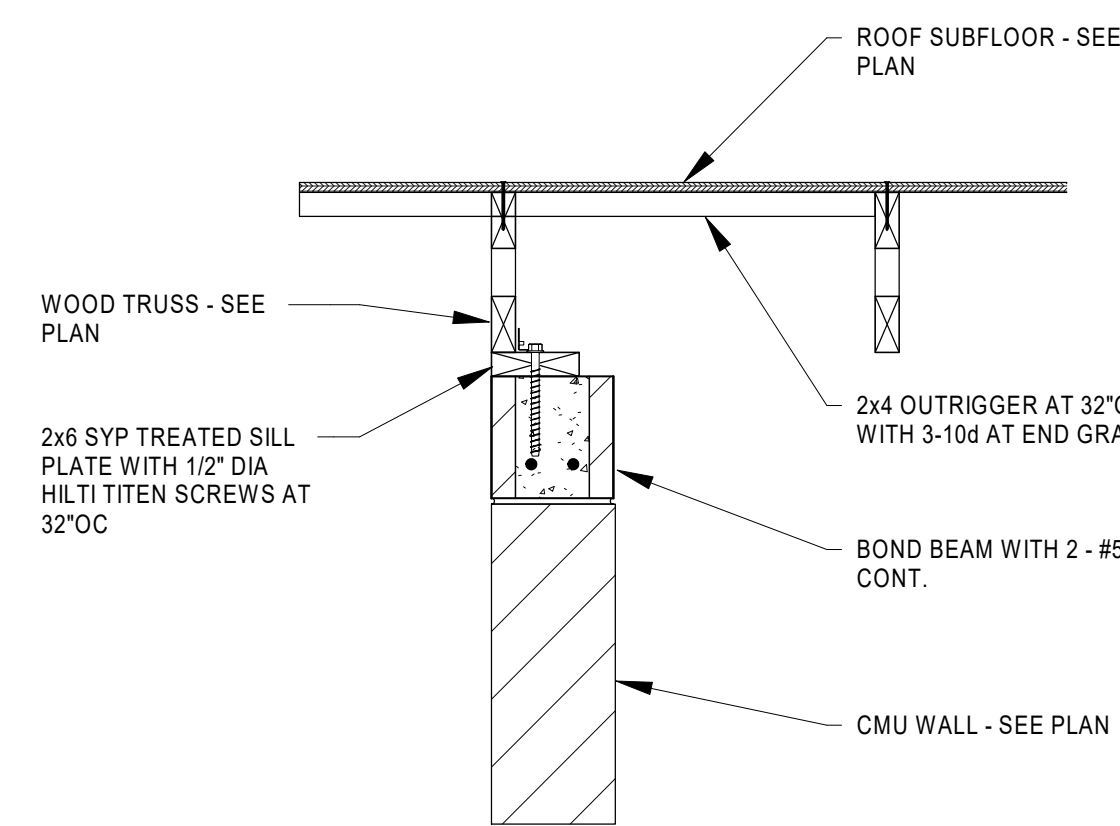


**3 SECTION**  
S701 1" = 1'-0"

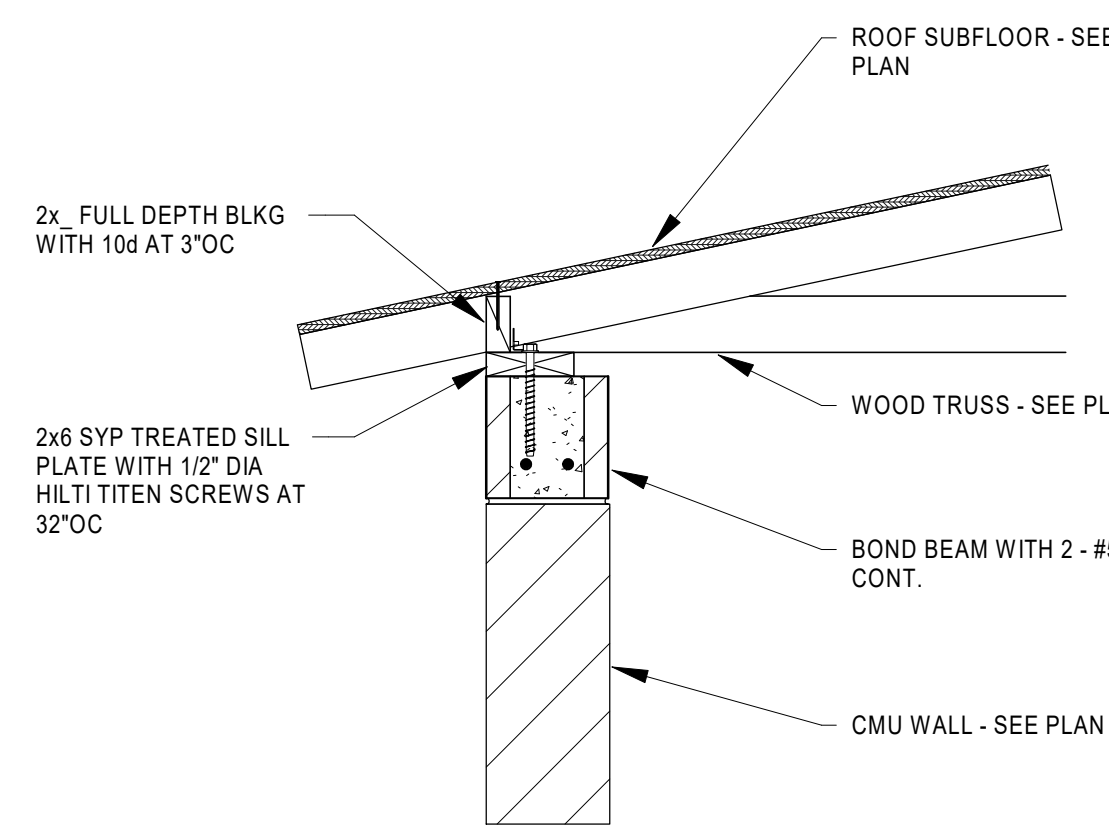


NOTES:  
1. WOOD TRUSS NOT SHOWN FOR CLARITY.

**4 SECTION**  
S701 1" = 1'-0"



**5 SECTION**  
S701 1" = 1'-0"



**6 SECTION**  
S701 1" = 1'-0"



**ARCHITECT OF RECORD**  
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## LAKE BYLLESBY PARK PAVILION + BEACH BATH

50% PROGRESS SET  
 NOT FOR CONSTRUCTION

9/21/2021

CLIENT  
 GOODHUE COUNTY

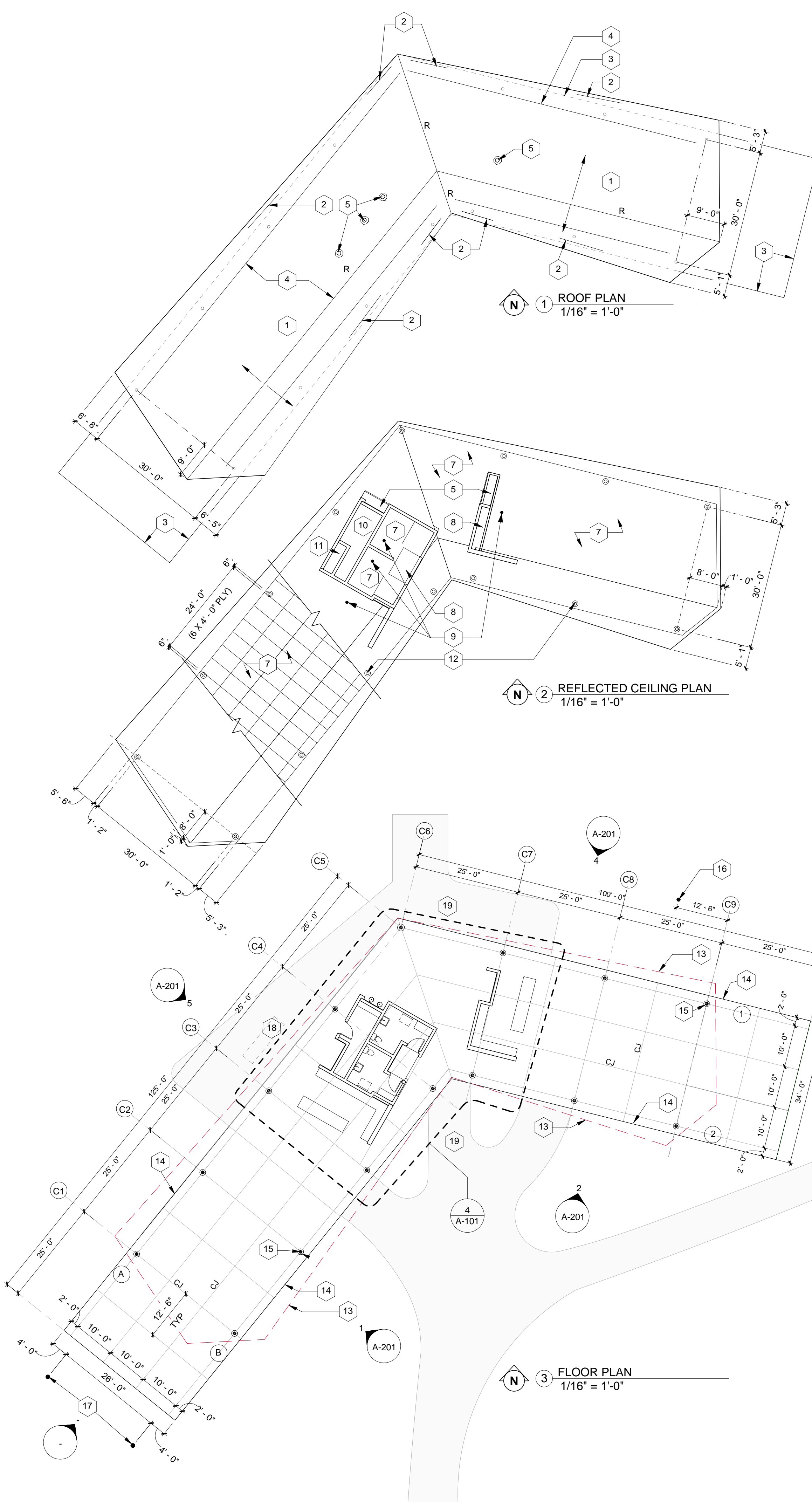
No.	Description	Date

SHEET NAME

## PAVILION PLANS

SHEET NUMBER

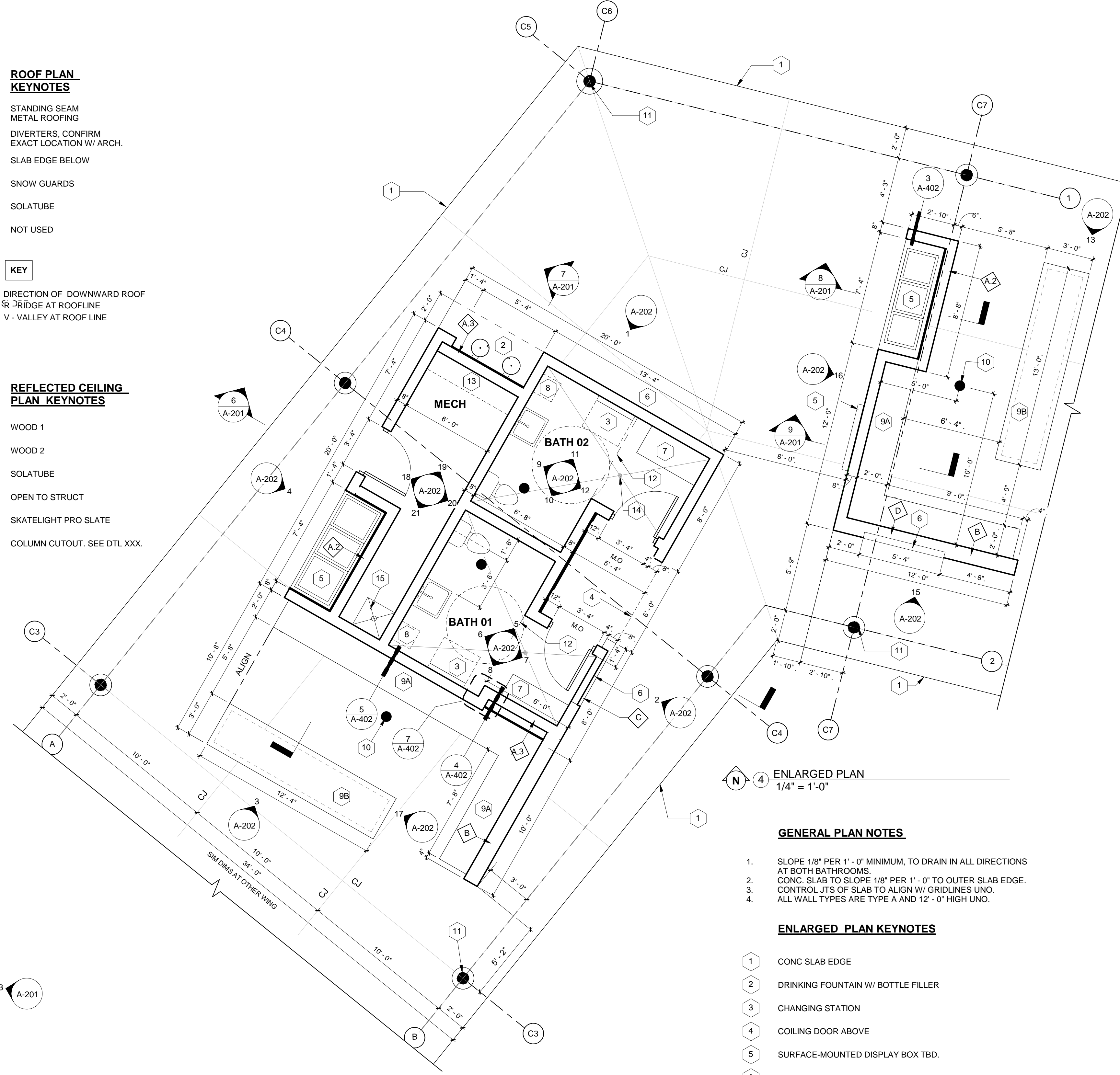
# A-101



- ROOF PLAN KEYNOTES**
- 1 STANDING SEAM METAL ROOFING
  - 2 DIVERTERS, CONFIRM EXACT LOCATION W/ ARCH.
  - 3 SLAB EDGE BELOW
  - 4 SNOW GUARDS
  - 5 SOLATUBE
  - 6 NOT USED
- KEY**
- DIRECTION OF DOWNWARD ROOF
  - ↔ RIDGE AT ROOFLINE
  - V - VALLEY AT ROOF LINE

- REFLECTED CEILING PLAN KEYNOTES**
- 7 WOOD 1
  - 8 WOOD 2
  - 9 SOLATUBE
  - 10 OPEN TO STRUCT
  - 11 SKATELIGHT PRO SLATE
  - 12 COLUMN CUTOUT. SEE DETL XXX.

- FLOOR PLAN KEYNOTES**
- 13 EDGE OF ROOF LINE ABOVE
  - 14 CONCRETE SLAB EDGE
  - 15 STEEL COLUMN WITH GRAVEL BASE
  - 16 BAR B Q STANDS/SMALL
  - 17 BAR B Q STANDS/LARGE
  - 18 PIG ROASTER SLAB- SEE CIVIL FOR LOCATION.
  - 19 PAVED PATH - SEE CIVIL.



4 ENLARGED PLAN  
 1/4" = 1'-0"

- GENERAL PLAN NOTES**
1. SLOPE 1/8" PER 1'-0" MINIMUM, TO DRAIN IN ALL DIRECTIONS AT BOTH BATHROOMS.
  2. CONC. SLAB TO SLOPE 1/8" PER 1'-0" TO OUTER SLAB EDGE.
  3. CONTROL JTS OF SLAB TO ALIGN W/ GRIDLINES UNO.
  4. ALL WALL TYPES ARE TYPE A AND 12'-0" HIGH UNO.

**ENLARGED PLAN KEYNOTES**

- 1 CONC SLAB EDGE
- 2 DRINKING FOUNTAIN W/ BOTTLE FILLER
- 3 CHANGING STATION
- 4 COILING DOOR ABOVE
- 5 SURFACE-MOUNTED DISPLAY BOX TBD.
- 6 RECESSED LOCKING MESSAGE BOARD
- 7 BUILT-IN BENCH
- 8 HAND DRYER
- 9A COUNTER 1 (STAINLESS STEEL)
- 9B COUNTER 2 (STONE). DIM SHOWN TO T.O. COUNTER. TYP 6" OVERHANG ALL AROUND.
- 10 SOLATUBE ABOVE.
- 11 STEEL COLUMN W/ GRAVEL BASE.
- 12 DROPPED CLG ABOVE, SEE RCP
- 13 SHELIVING- BY OWNER, NIC.
- 14 FLOOR DRAIN. SLOPE FLOOR SLAB TO DRAIN.
- 15 MOP SINK



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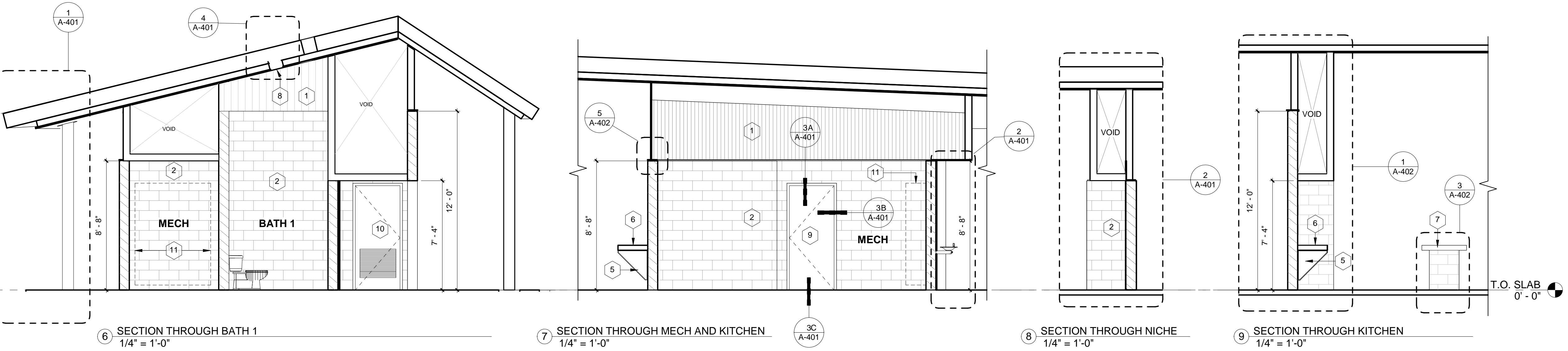
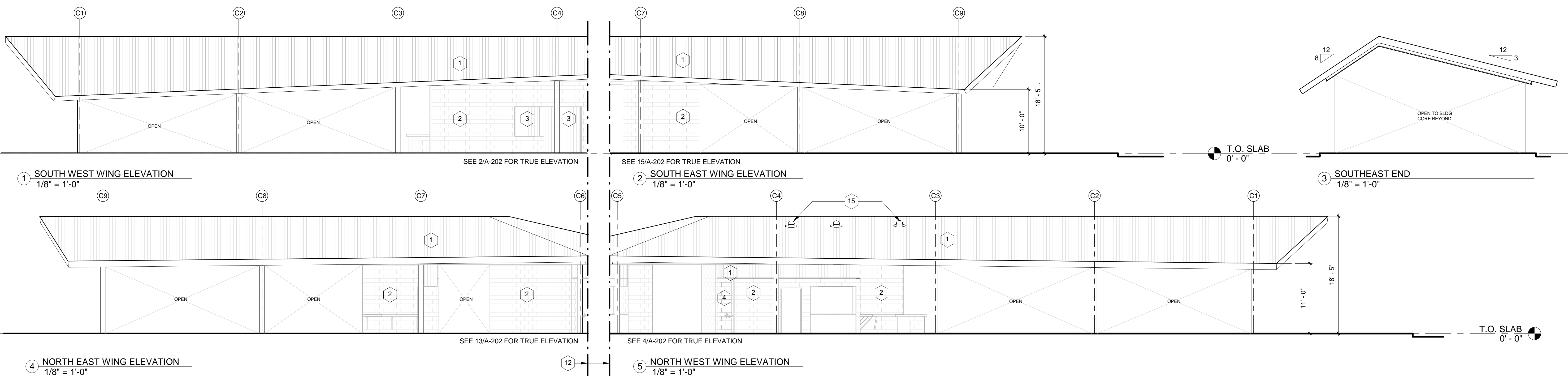
No.	Description	Date

SHEET NAME

**PAVILION  
EXTERIOR  
ELEVATIONS  
& SECTIONS**

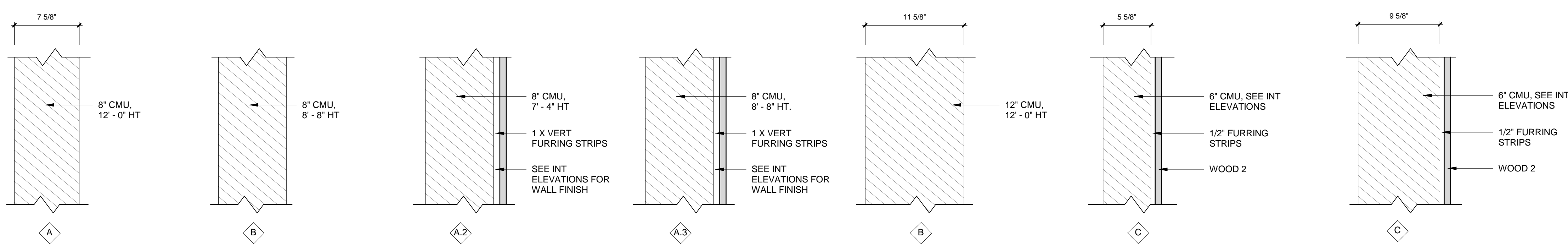
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**A-201**

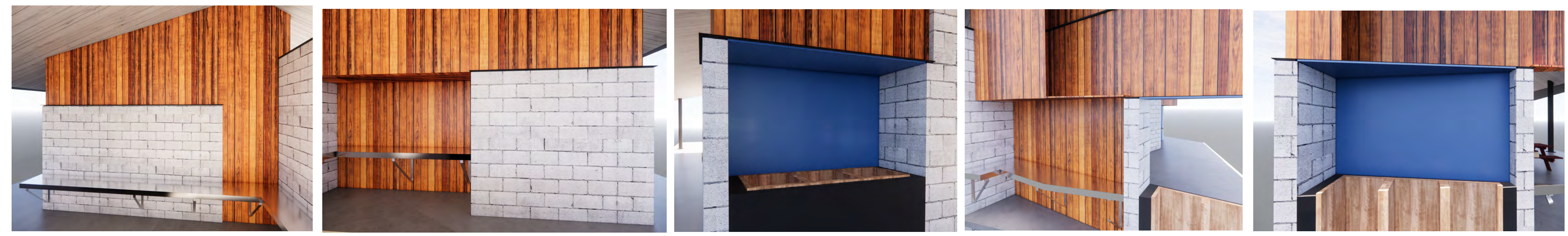


**ELEVATION AND SECTION KEYNOTES**

- 1 STANDING SEAM METAL ROOFING
- 2 BURNISHED OR GROUND FACED MASONRY UNITS (DESIGNER SERIES 754 GLACIAL WHITE)
- 3 WOOD 2
- 4 SKATELITE PRO SLATE
- 5 BRACKET 1
- 6 COUNTER 1 (STAINLESS STEEL)
- 7 COUNTER 2 (STONE)
- 8 SOLATUBE
- 9 METAL FRAME AND DOOR
- 10 METAL FRAME AND DOOR W/ LOUVER
- 11 SHELVING BY OWNER, NIC.
- 12 MITERED CORNER OF ROOF



10 WALL TYPES  
1 1/2" = 1'-0"





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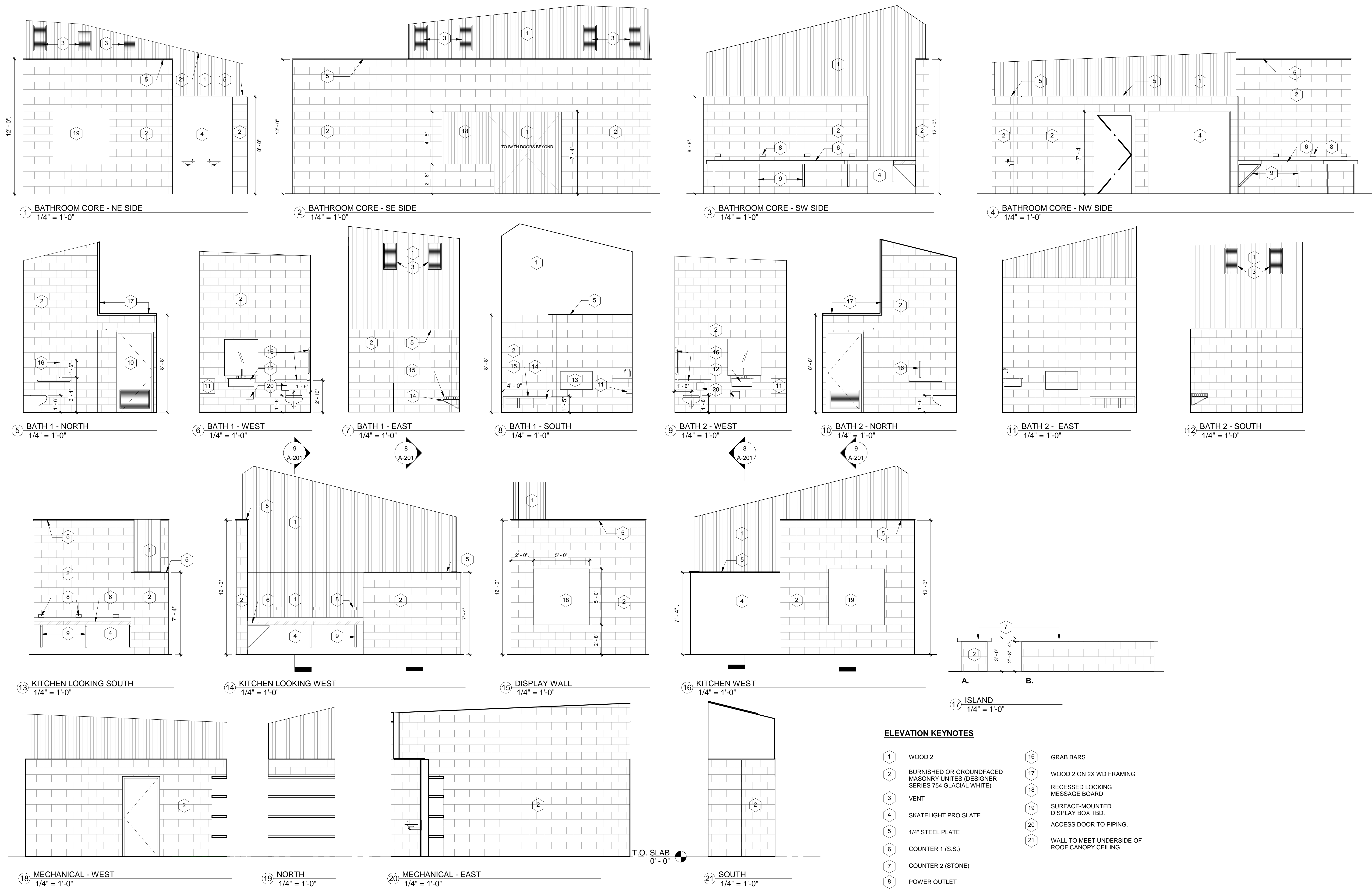
No.	Description	Date

SHEET NAME

## PAVILION INTERIOR ELEVATIONS

SHEET NUMBER

# A-202



- ELEVATION KEYNOTES**
- 1 WOOD 2
  - 2 BURNISHED OR GROUND FACED MASONRY UNITS (DESIGNER SERIES 754 GLACIAL WHITE)
  - 3 VENT
  - 4 SKATELIGHT PRO SLATE
  - 5 1/4" STEEL PLATE
  - 6 COUNTER 1 (S.S.)
  - 7 COUNTER 2 (STONE)
  - 8 POWER OUTLET
  - 9 BRACKET 1
  - 10 METAL FRAME & DOOR W/ LOUVER
  - 11 HAND DRYER
  - 12 SINK
  - 13 CHANGING STATION
  - 14 BRACKET 2
  - 15 BUILT-IN BENCH
  - 16 GRAB BARS
  - 17 WOOD 2 ON 2X WD FRAMING
  - 18 RECESSED LOCKING MESSAGE BOARD
  - 19 SURFACE-MOUNTED DISPLAY BOX TBD.
  - 20 ACCESS DOOR TO PIPING.
  - 21 WALL TO MEET UNDERSIDE OF ROOF CANOPY CEILING.









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**LAKE BYLLESBY  
PARK PAVILION +  
BEACH BATH**

50% PROGRESS SET  
NOT FOR CONSTRUCTION

9/21/2021

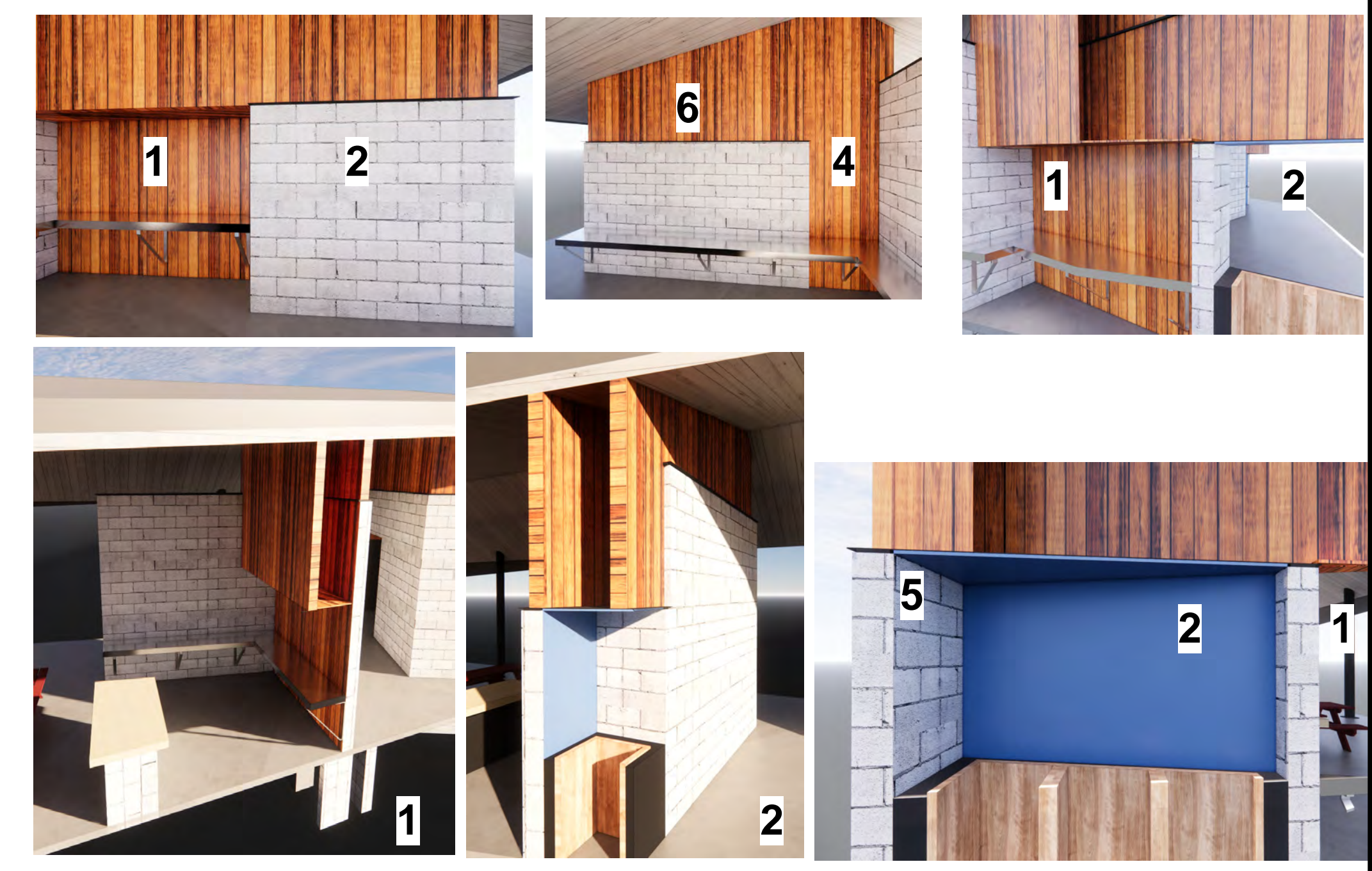
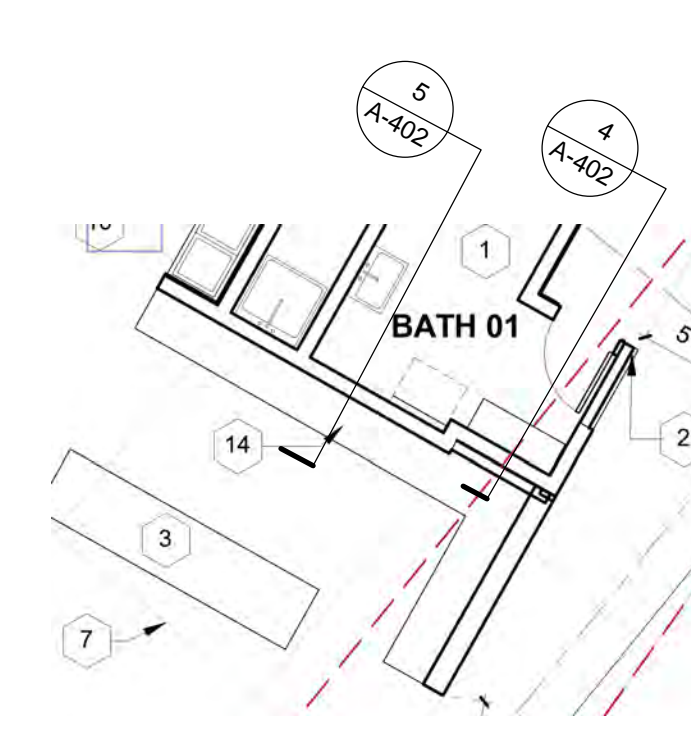
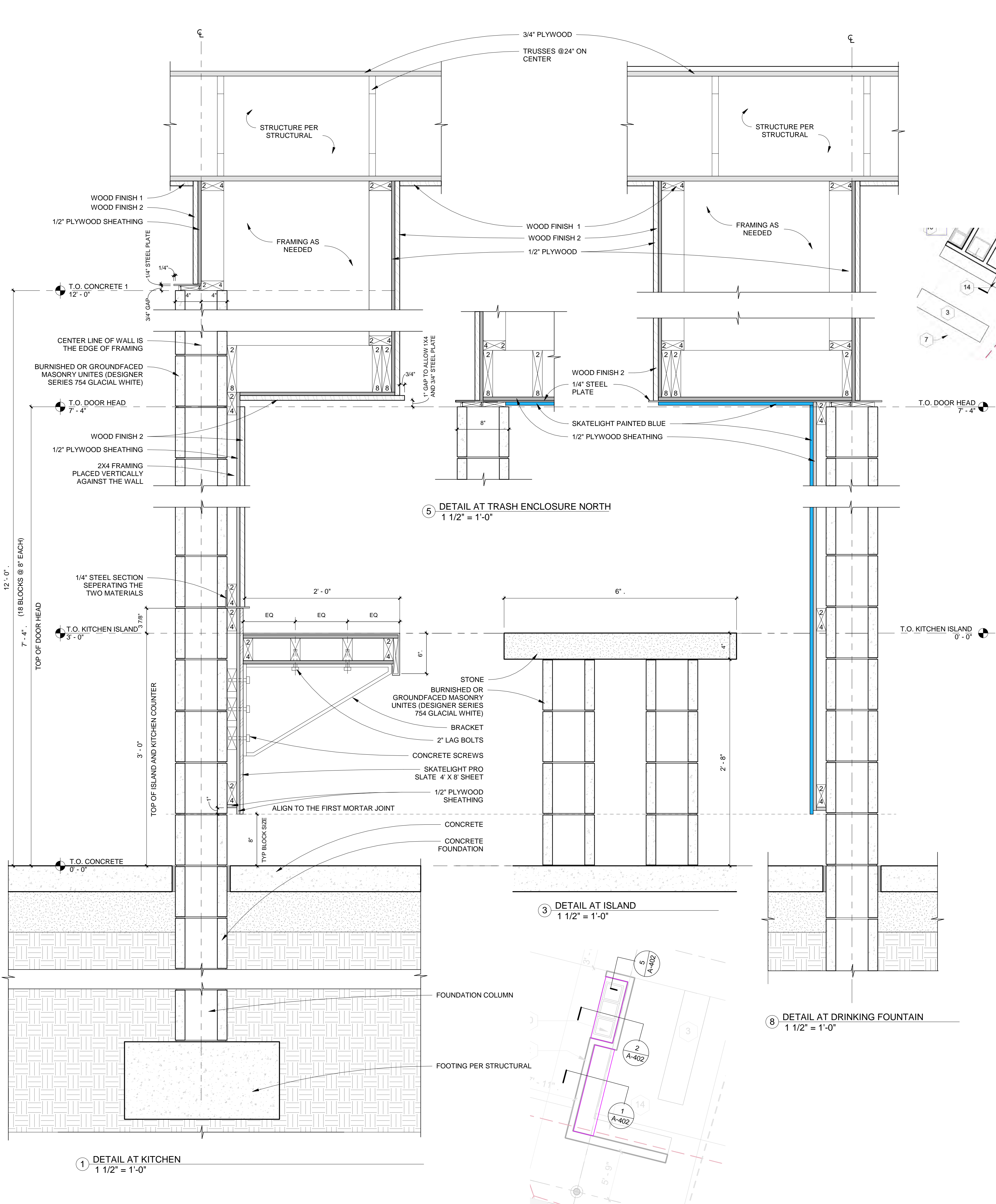
CLIENT  
**GOODHUE COUNTY**

No.	Description	Date

SHEET NAME  
**PAVILION  
DETAILS**

SHEET NUMBER

**A-402**





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## LAKE BYLLESBY PARK PAVILION + BEACH BATH

50% PROGRESS SET  
 NOT FOR CONSTRUCTION

9/24/2021

CLIENT  
 GOODHUE COUNTY

No.	Description	Date

SHEET NAME  

# BEACH BATH DRAWINGS

SHEET NUMBER  

# SA-101

### EXTERIOR ELEVATION KEYNOTES

- 1 STANDING SEAM METAL ROOFING
- 2 BURNISHED OR GROUND FACED MASONRY UNITS
- 3 WOOD 2
- 4 SKATELIGHT PRO SLATE 4' X 8' SHEET
- 5 METAL FRAME AND DOOR W/ LOUVER
- 6 VENT
- 7 DRINKING FOUNTAIN
- 8 1/4" STEEL PLATE
- 9 FASCIA
- 10 NOT USED

### INTERIOR ELEVATION KEYNOTES

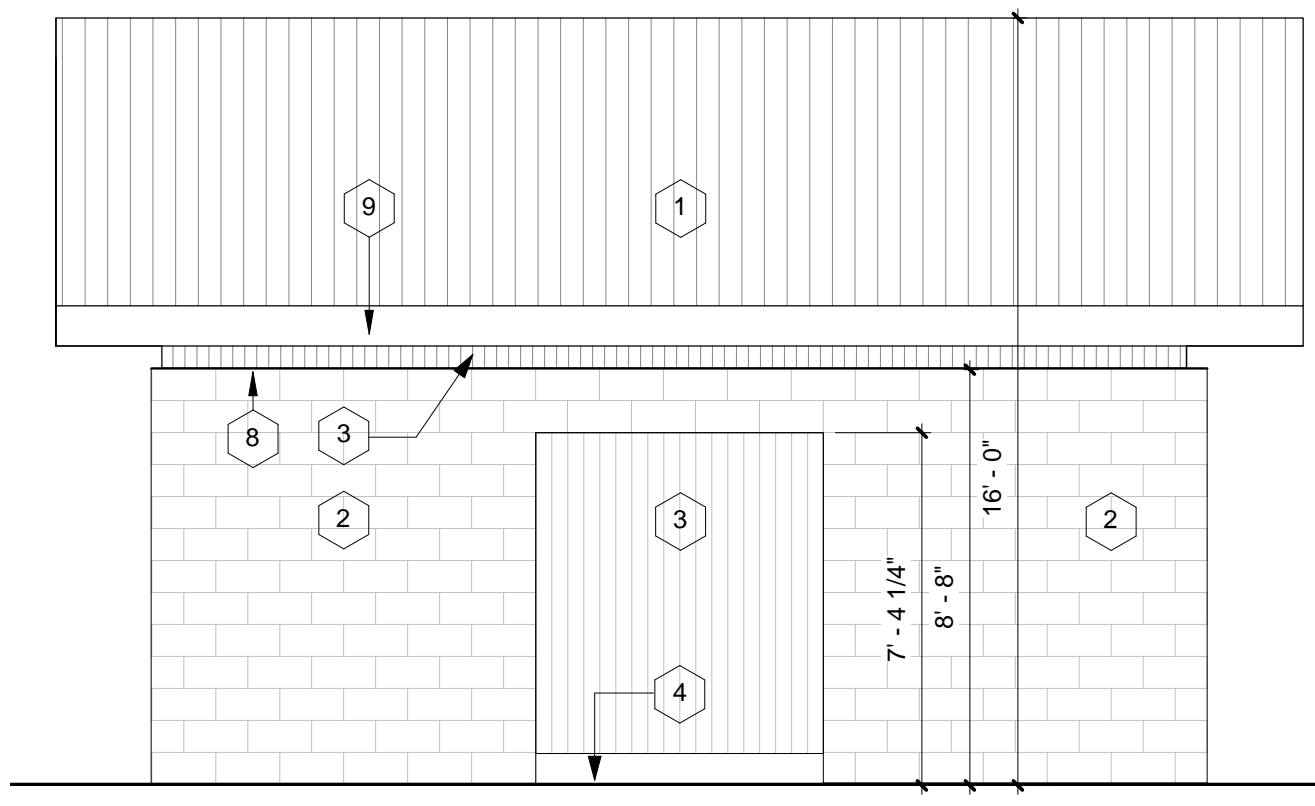
- 11 BUILT IN BENCH
- 12 MATERIAL TBD
- 13 HAND DRYER
- 14 METAL FRAME AND DOOR WITH LOUVER.
- 15 BURNISHED OR GROUND FACED MASONRY UNITS
- 16 VENT
- 17 ACCESS DOOR TO PIPING
- 18 CHANGING STATION
- 19 MIRROR
- 20 MOP SINK
- 21 WALL-MOUNTED SINK
- 22 SHELVING

### GENERAL PLAN NOTES

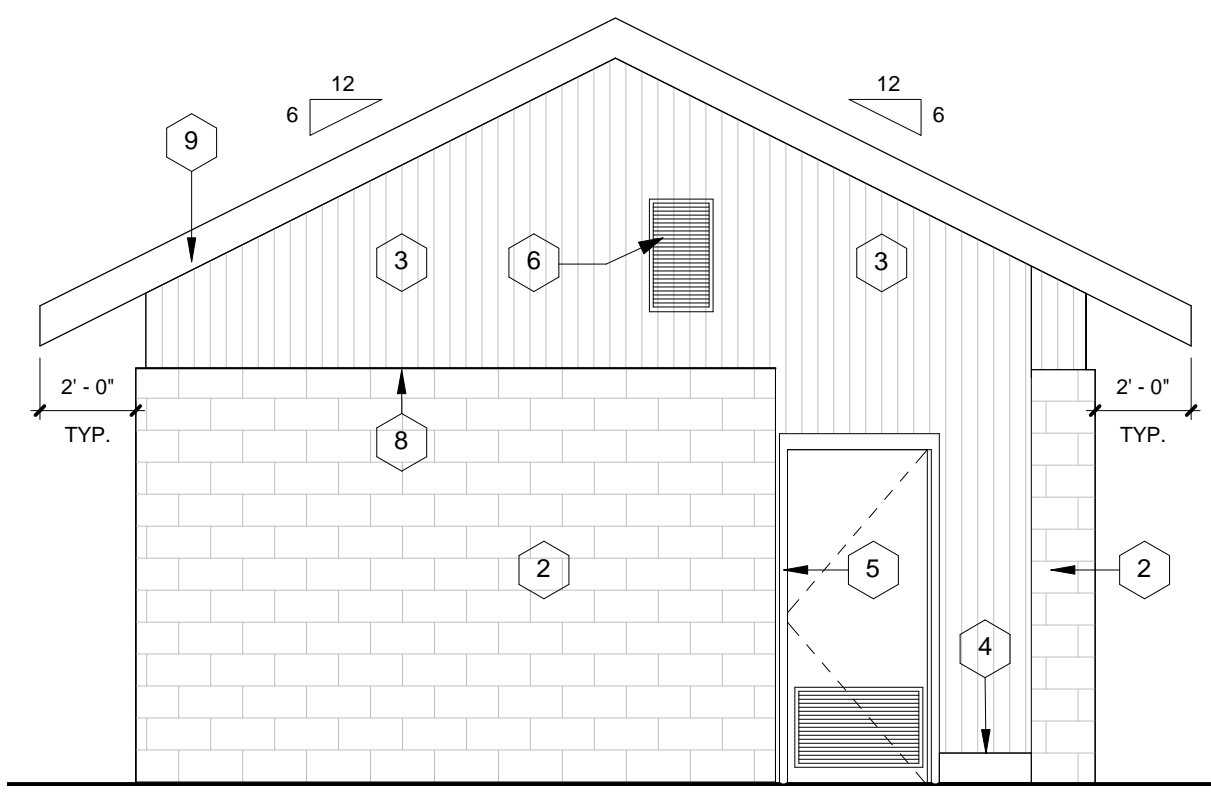
1. WALLS ARE DIMENSIONED TO F.O. CMU.
2. ALL EXT WALLS AND INT PARTITIONS ARE NOMINAL 8" CMUs UNO.
3. CMU WALL FINISH: PAINT 1.
4. CMU FLOOR SLAB FINISH: XXX.
5. CONCRETE SLAB CONTROL JOINTS TBD.

### FLOOR PLAN KEYNOTES

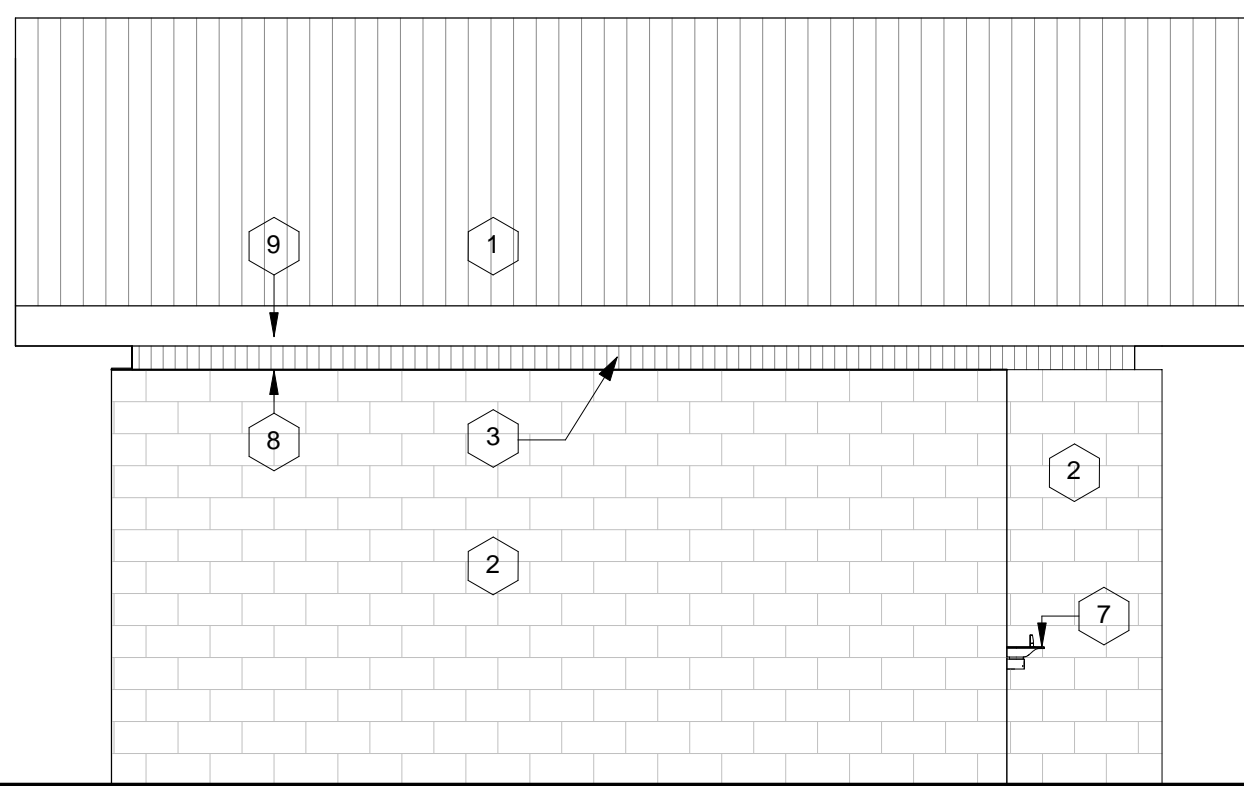
- 30 SHELVING
- 31 BENCH
- 32 WALL-MOUNTED SINK
- 33 HAND DRYER
- 34 MOP SINK
- 35 NOT USED
- 36 EDGE OF CONC SLAB
- 37 DRINKING FOUNTAIN
- 38 CHANGING STATION
- 39 SKATELITE OVER 2X FURRING OVER CMU
- 40 WOOD 2 OVER FURRING
- 41 FLOOR DRAIN. SLOPE CONC SLAB TO DRAIN.



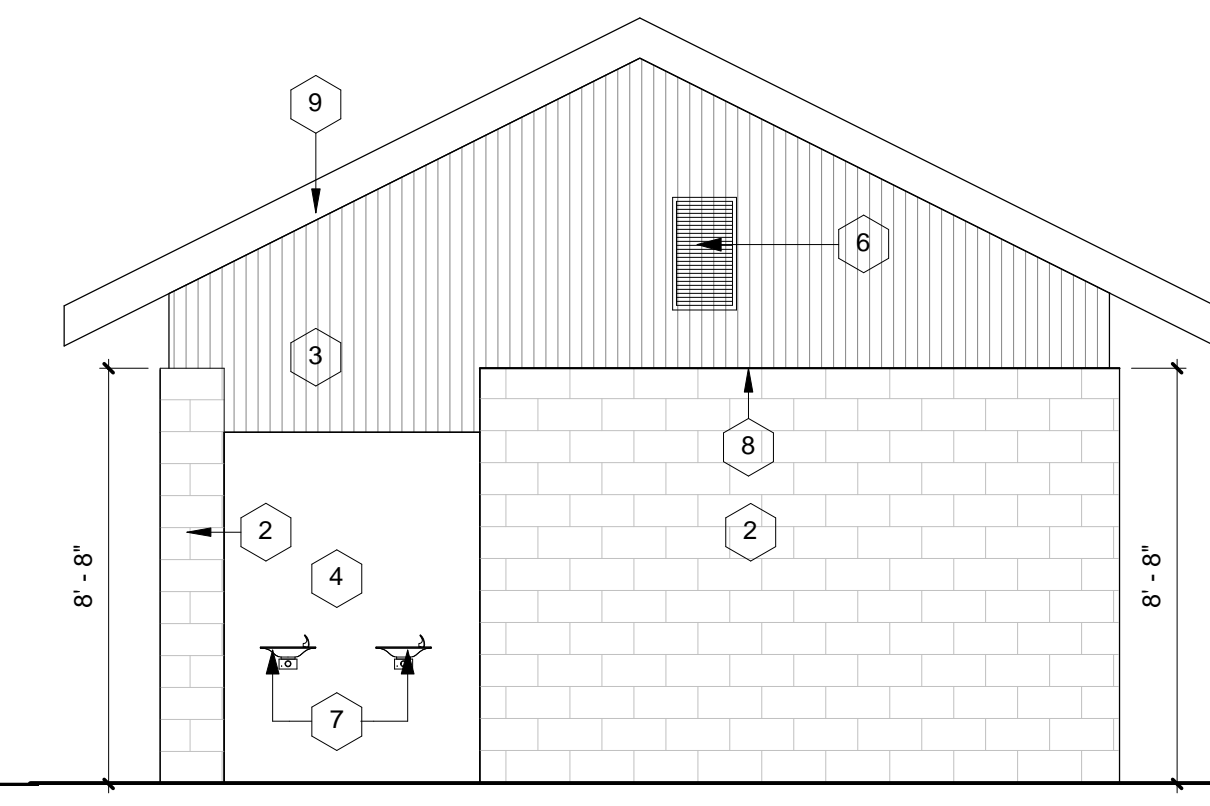
1 SOUTH ELEVATION  
 1/4" = 1'-0"



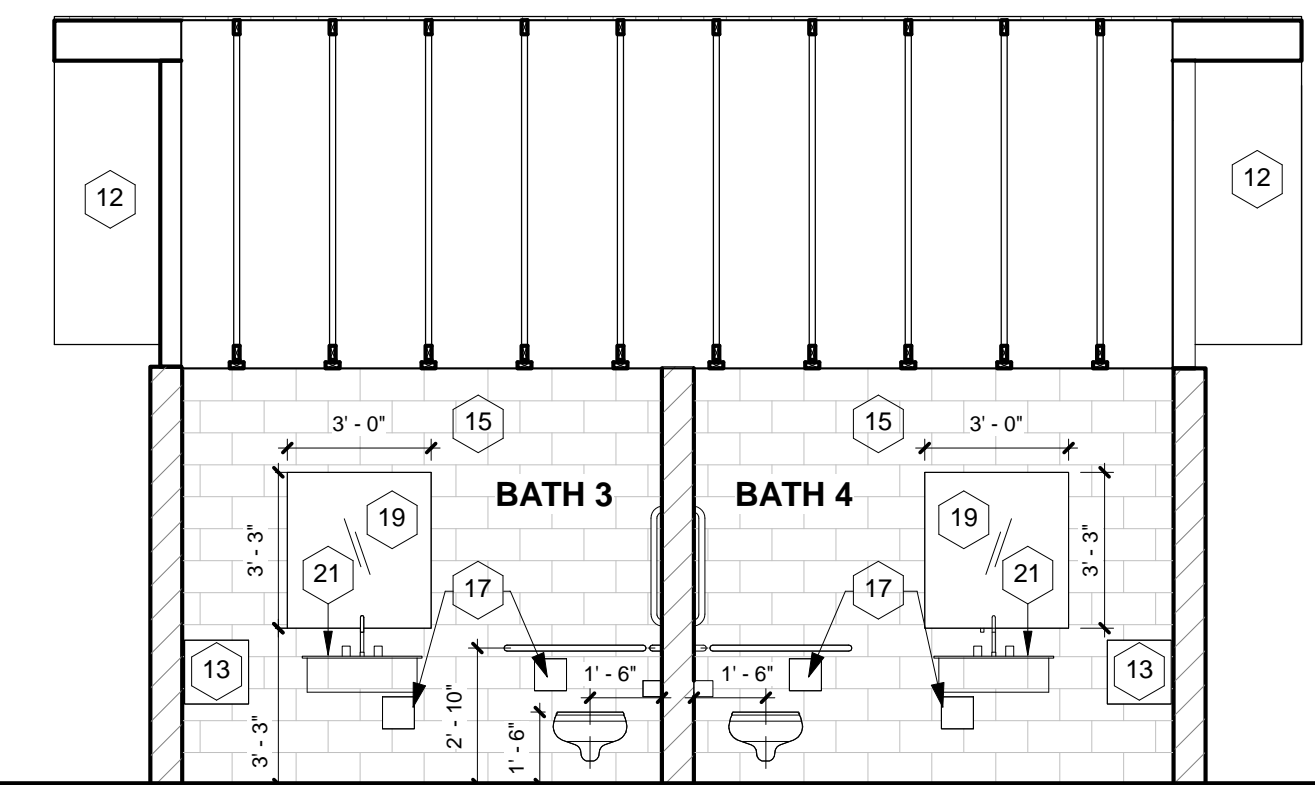
2 EAST ELEVATION  
 1/4" = 1'-0"



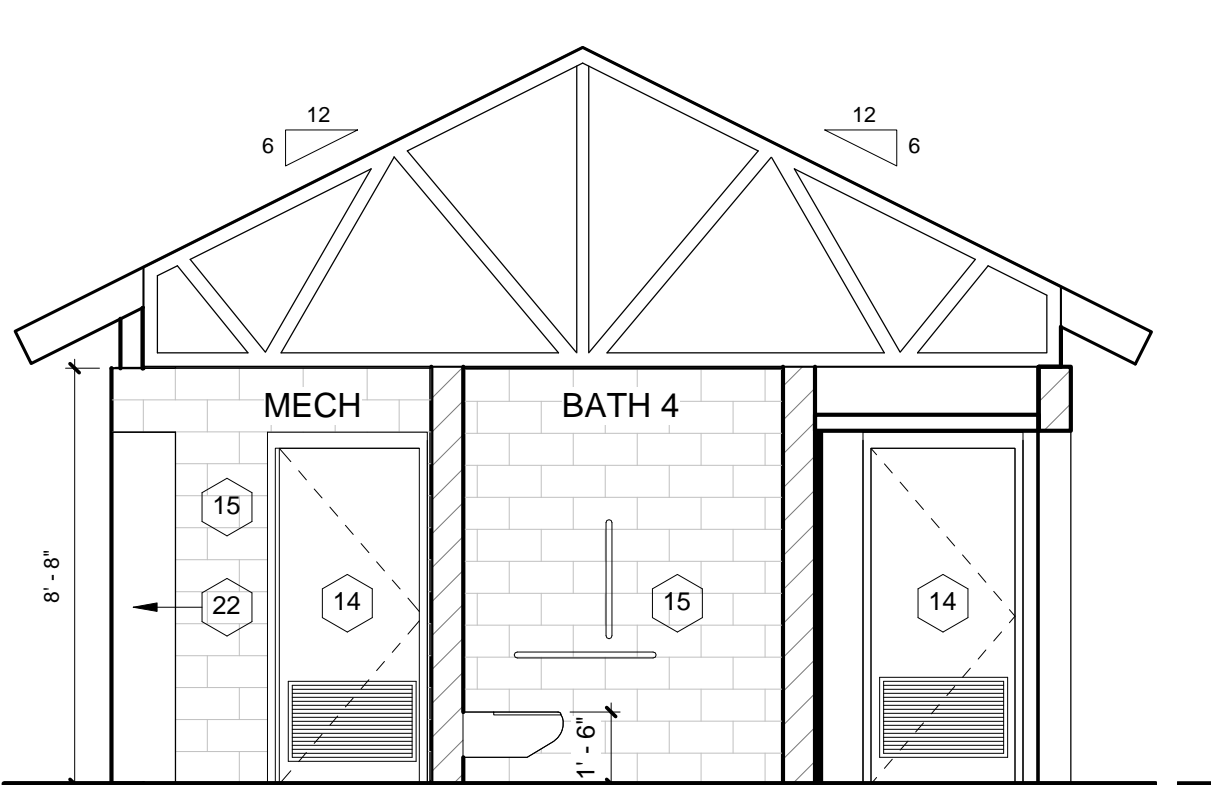
3 NORTH ELEVATION  
 1/4" = 1'-0"



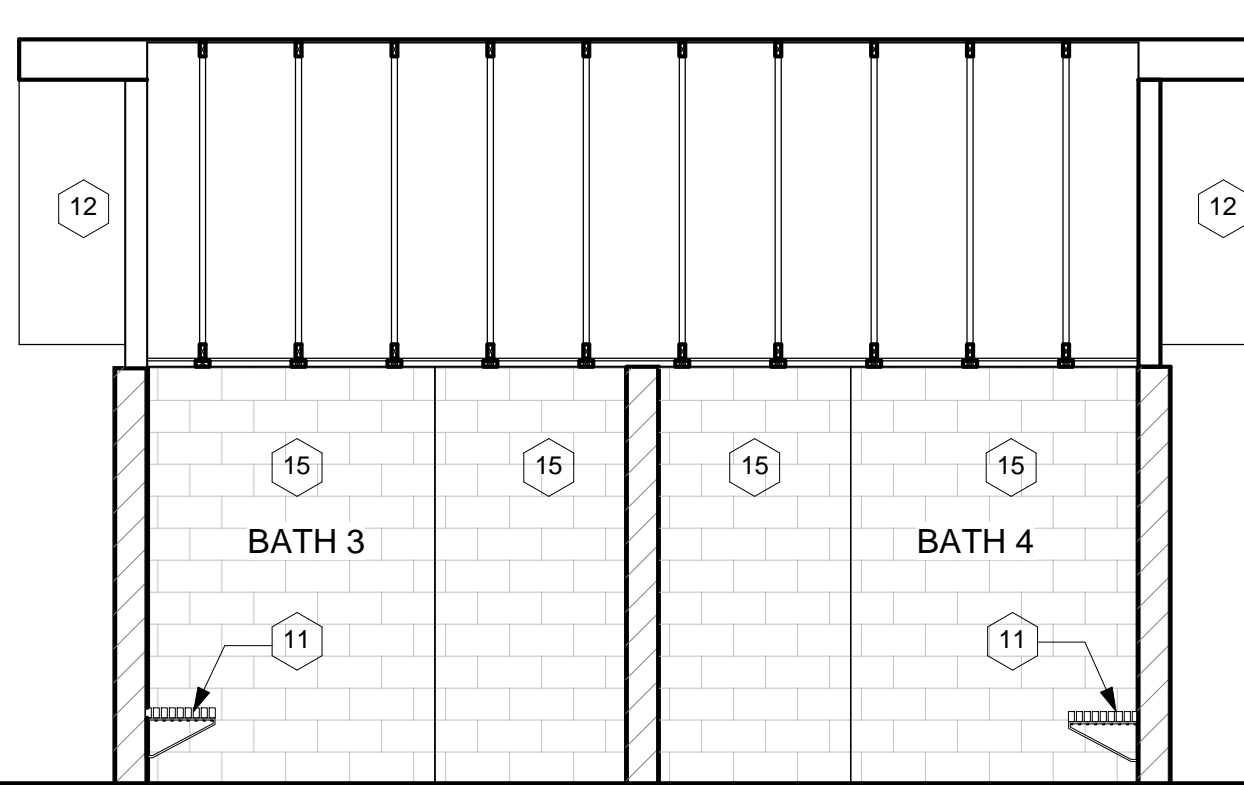
4 WEST ELEVATION  
 1/4" = 1'-0"



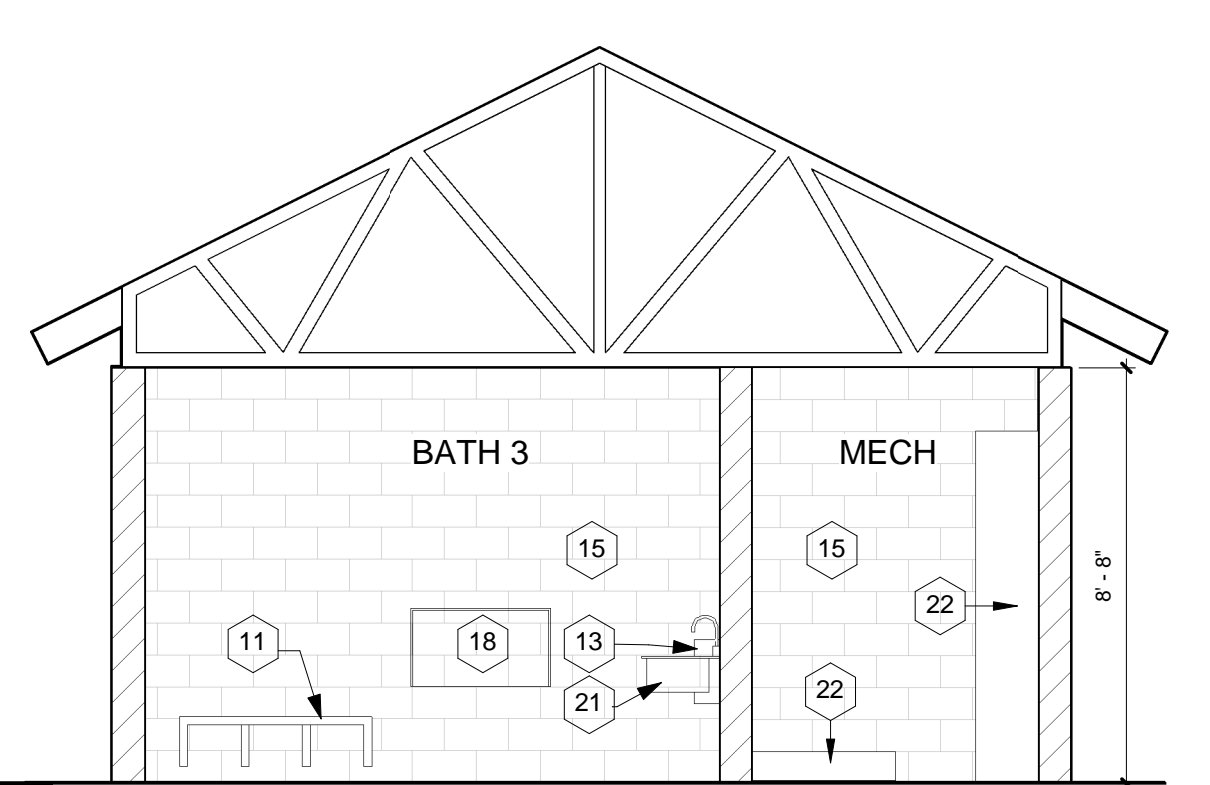
5 SECTION 1  
 1/4" = 1'-0"



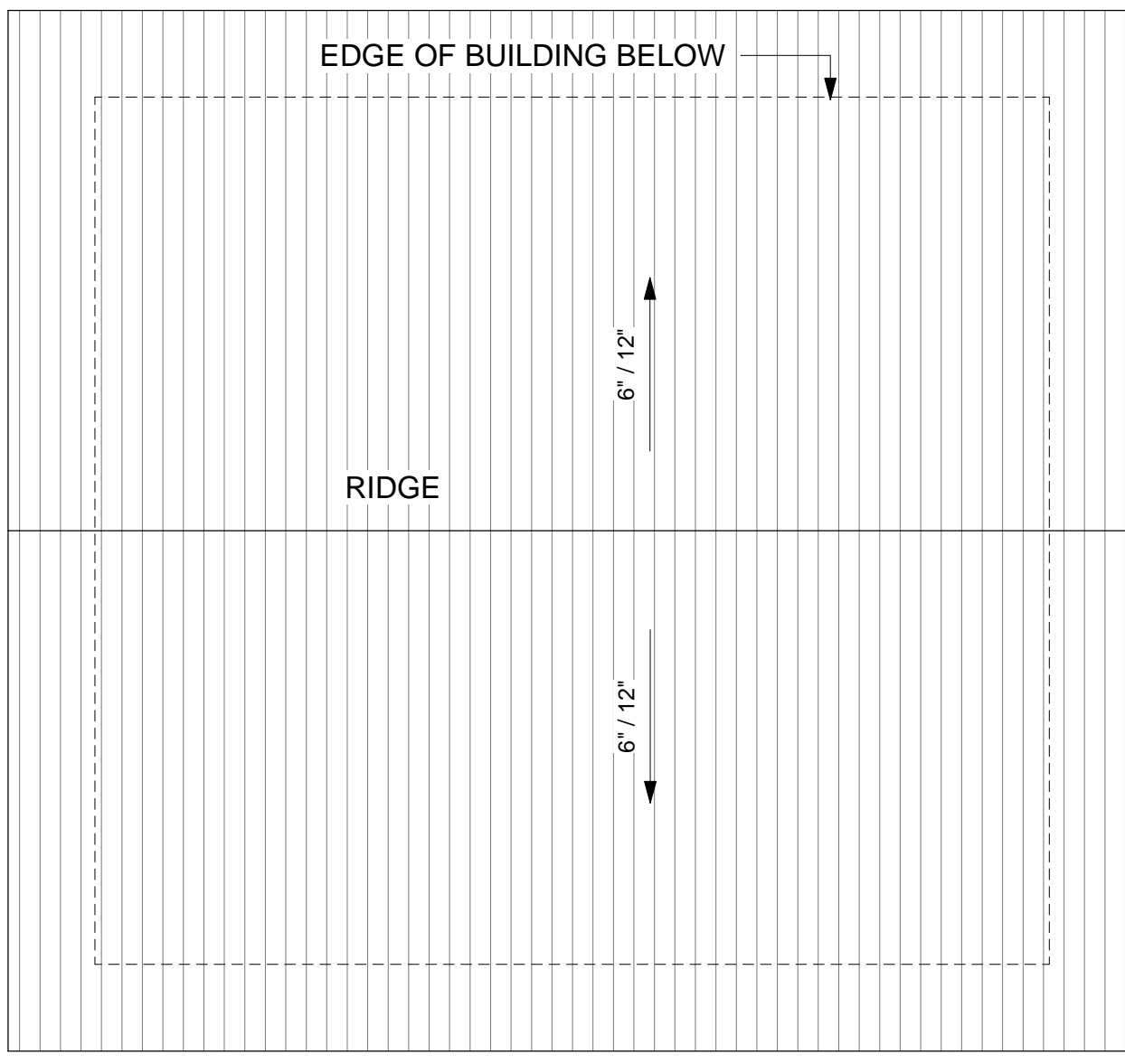
6 SECTION 2  
 1/4" = 1'-0"



7 SECTION 3  
 1/4" = 1'-0"



8 SECTION 4  
 1/4" = 1'-0"



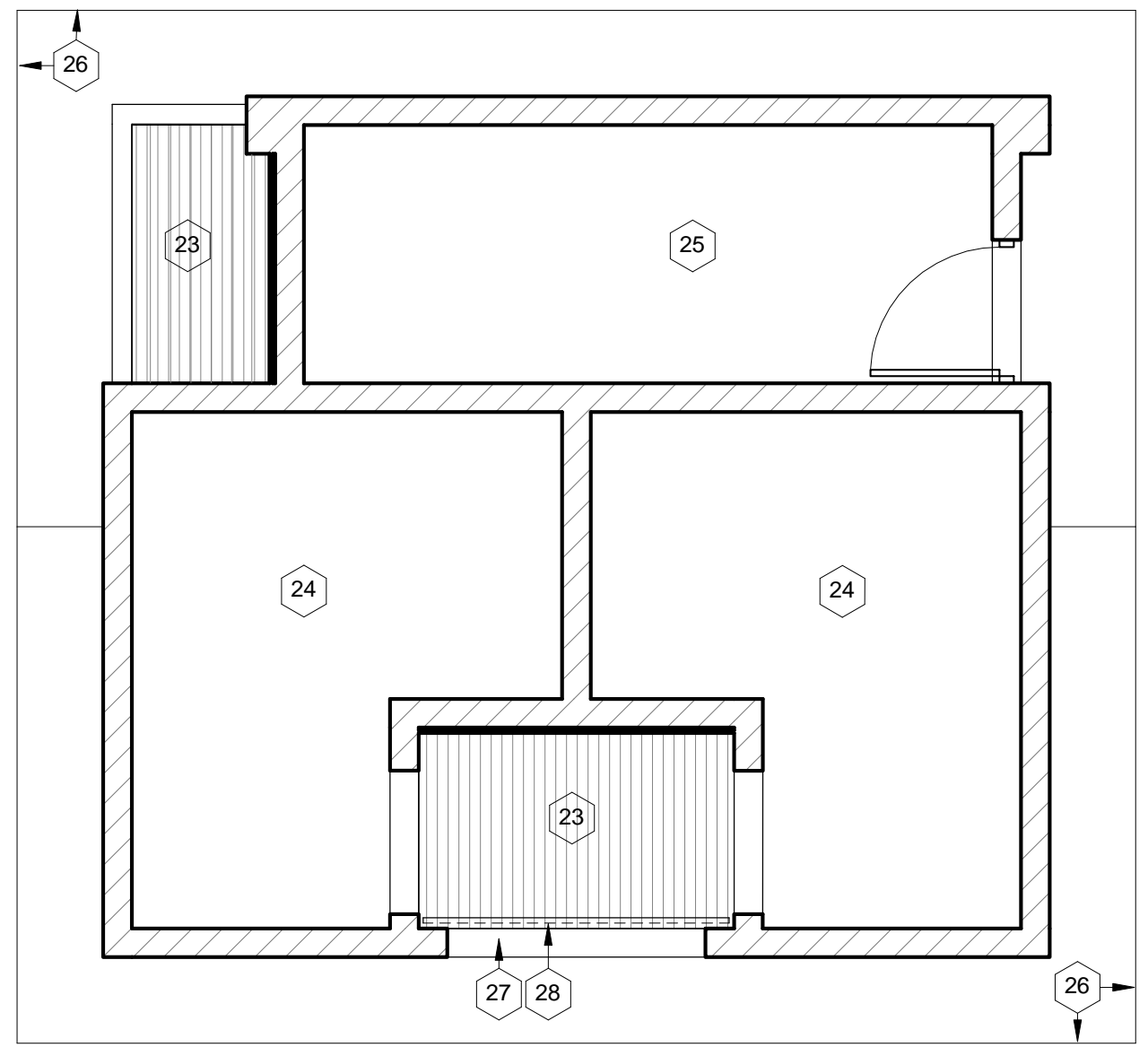
9 ROOF PLAN  
 1/4" = 1'-0"

### ROOF PLAN NOTES

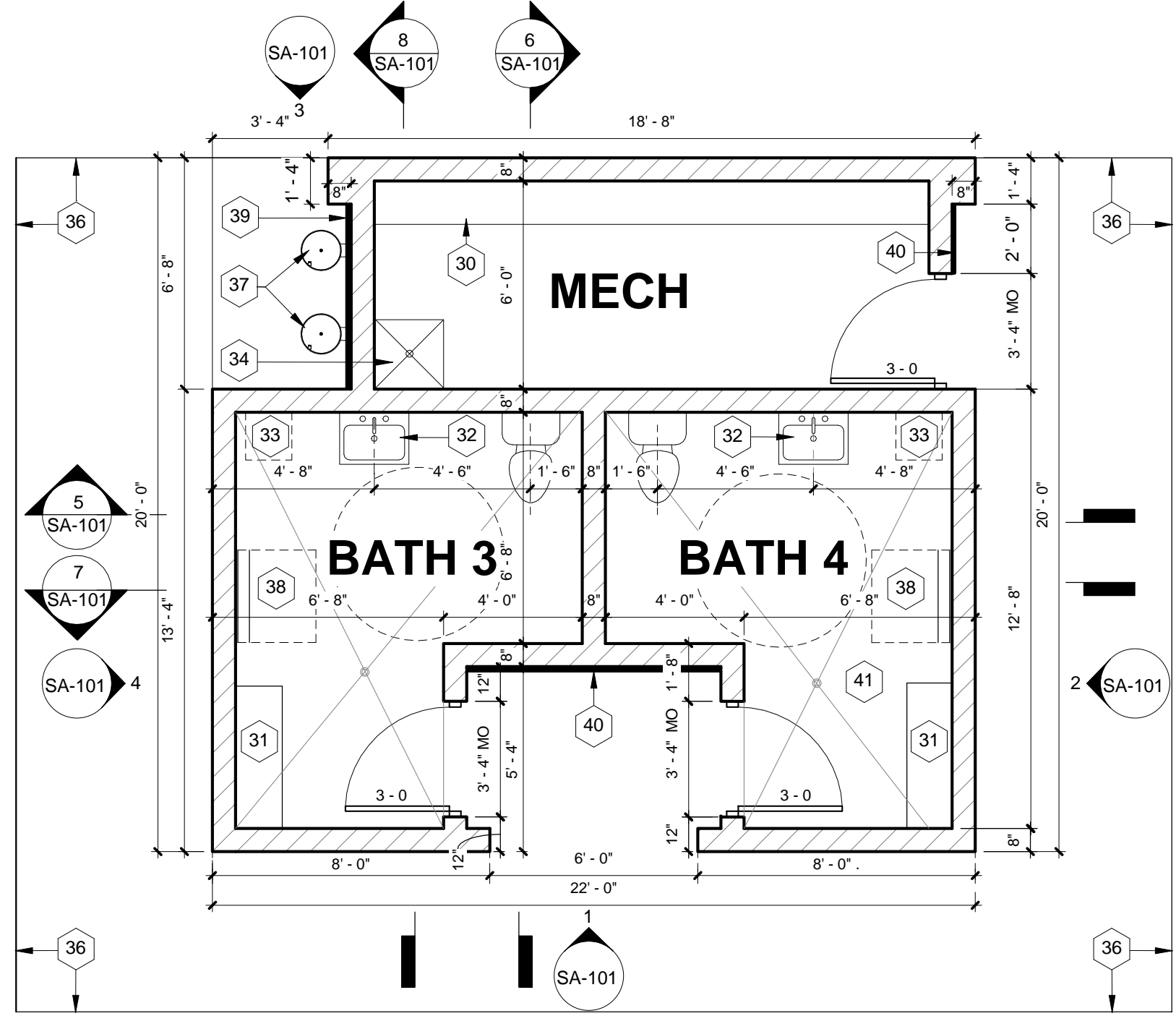
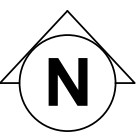
1. STANDING SEAM METAL ROOFING.
2. 6.12 ROOF SLOPE, TYP.

### RCP KEYNOTES

- 23 WOOD 2
- 24 TBD
- 25 OPEN TO STRUCT.
- 26 EDGE OF ROOF ABOVE
- 27 HEADER AT 7' - 4" ABOVE CONC. SLAB
- 28 RECESSED COILING DOOR
- 29 NOT USED.



10 REFLECTED CEILING PLAN  
 1/4" = 1'-0"



11 BEACH BATH  
 1/4" = 1'-0"





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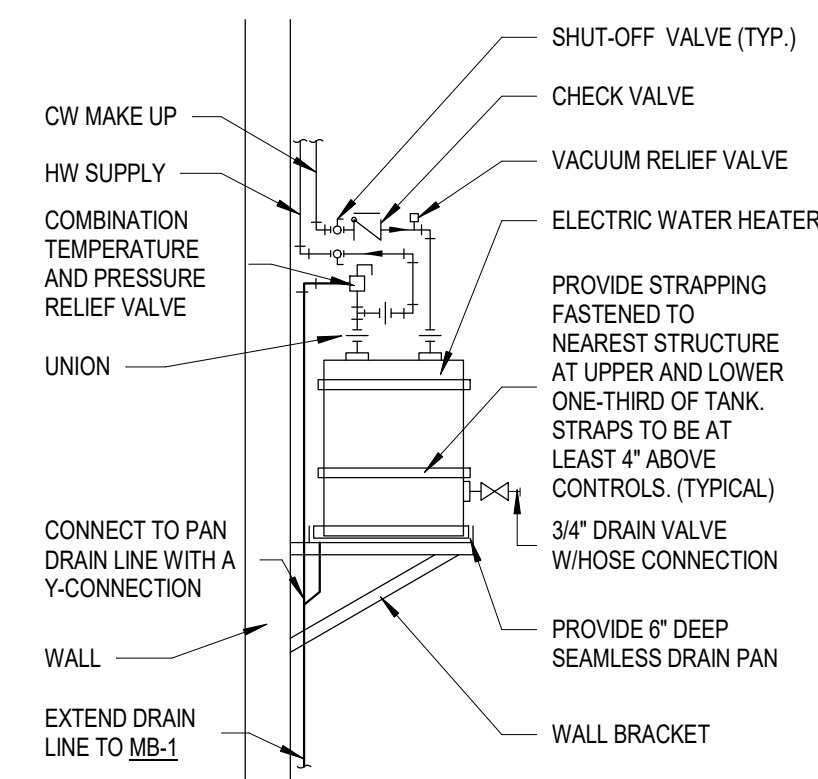
PLUMBING FIXTURE SCHEDULE											
MARK	DESCRIPTION	ADA	COLD (IN)	HOT (IN)	WASTE (IN)	VENT (IN)	FIXTURE		TRIM		NOTES
							MANUFACTURER	MODEL	MANUFACTURER	MODEL	
DF-1	BH-LEVEL, HEAVY DUTY VANDAL RESISTANT, FREEZE RESISTANT, STAINLESS STEEL DRINKING FOUNTAIN	Yes	1/2	-	1 1/2	1 1/2	ELKAY	EHW117FPK			
L-1A	WALL MOUNTED BATHROOM SINK WITH MANUAL 2 HANDLE 0.5 GPM FAUCET	Yes	1/2	1/2	1 1/2	1 1/2	KOHLER	KINGSTON K-2005	KOHLER	CORALAIS K-15240-4NDRA	1
MB-1	24"x24" MOLDED STONE MOP SERVICE BASIN WITH SERVICE FAUCET	No	3/4	3/4	3	1 1/2	FIAT PRODUCTS	MSBDTG2424			2
WC-1A	FLOOR MOUNTED PRESSURE ASSIST TANK TYPE TOILET, ENLARGED BOWL, ADA HEIGHT, WHITE, 1.6 GPF	Yes	1/2	-	4	2	KOHLER	K-3493-SS	KOHLER	K-4650	

- NOTES:**  
 1. PROVIDE WITH MOLDED COVERING FOR WATER AND WASTE PIPING, TRUBRO LAV GUARD2.  
 2. PACKAGE INCLUDES FAUCET, HOSE AND BRACKET, MOP HANGER.

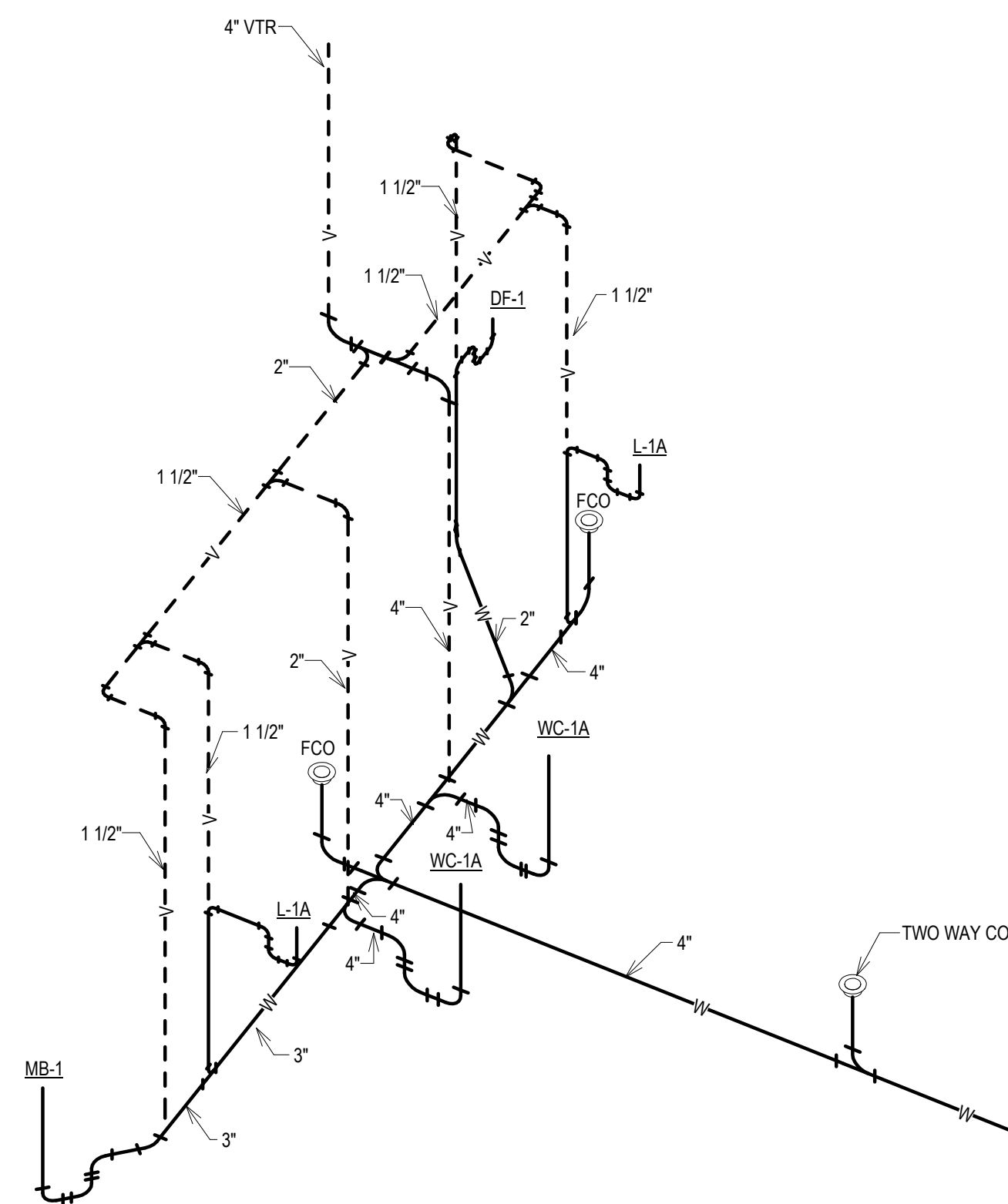
ELECTRIC WATER HEATER SCHEDULE															
MARK	LOCATION	NUMBER OF ELEMENTS	KW (EACH)	VOLTAGE	PHASE	HZ	STORAGE CAPACITY (GALLONS)	TEMPERATURE SETTING (°F)	RECOVERY		MANUFACTURER	MODEL	NOTES	EXPANSION TANK	
									WATER GPH	TEMP RISE (°F)				MANUFACTURER	MODEL
EWH-1	MECH	1	2	120	1	60	6	120	8	100	A O SMITH	DEL-6			

ELECTRIC WALL HEATER SCHEDULE									
MARK	LOCATION	AIRFLOW (CFM)	ELECTRICAL DATA				MANUFACTURER	MODEL	NOTES
			WATTS	VOLTAGE	PHASE	HZ			
EH-1	MECH	65	500	120	1	60	QMARK	CWH1101DSF	1
EH-2	BATH 01	65	500	120	1	60	QMARK	CWH1101DSF	1
EH-3	BATH 02	65	500	120	1	60	QMARK	CWH1101DSF	1

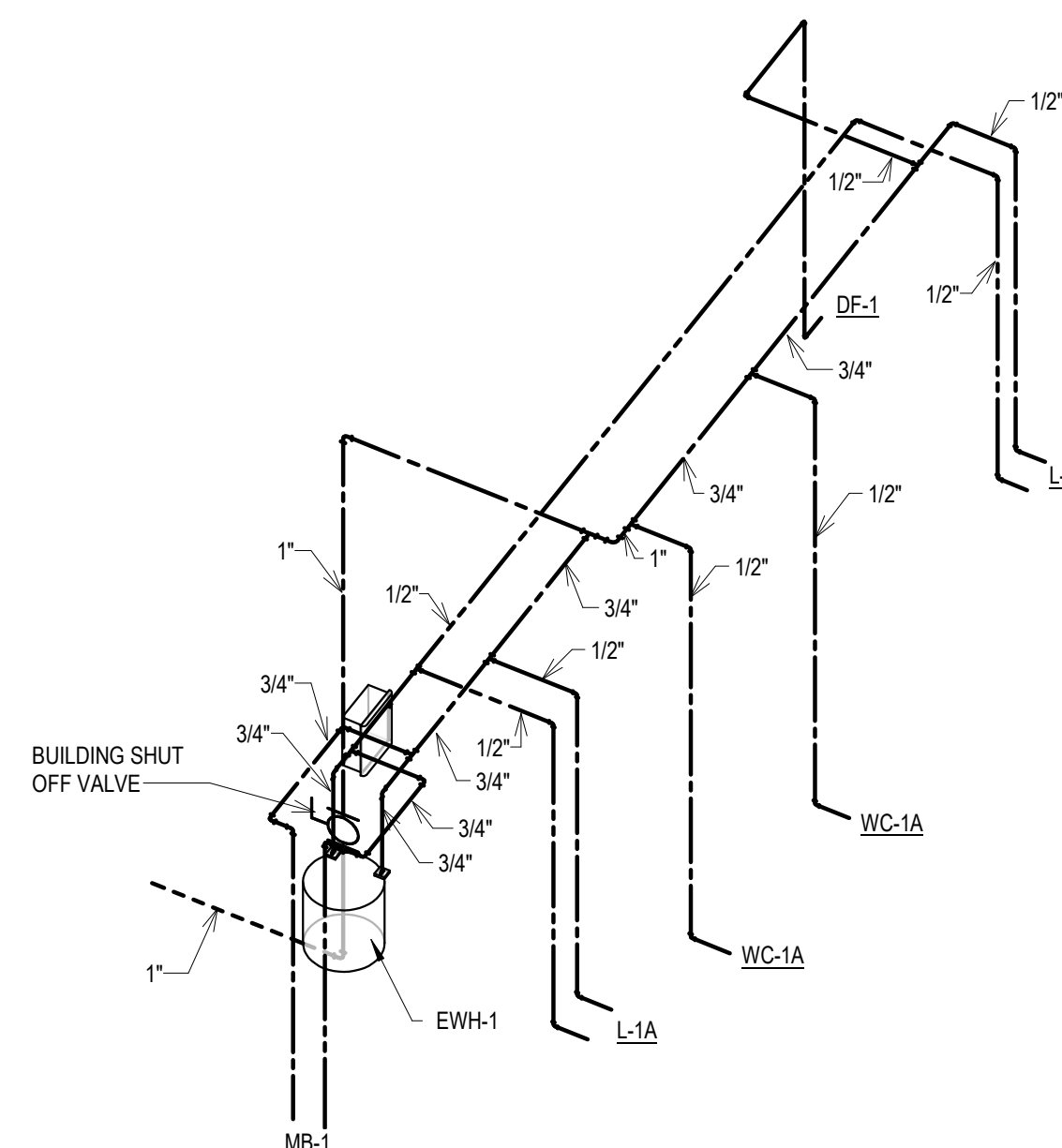
- NOTES:**  
 1. PROVIDE WITH SURFACE MOUNTING FRAME.



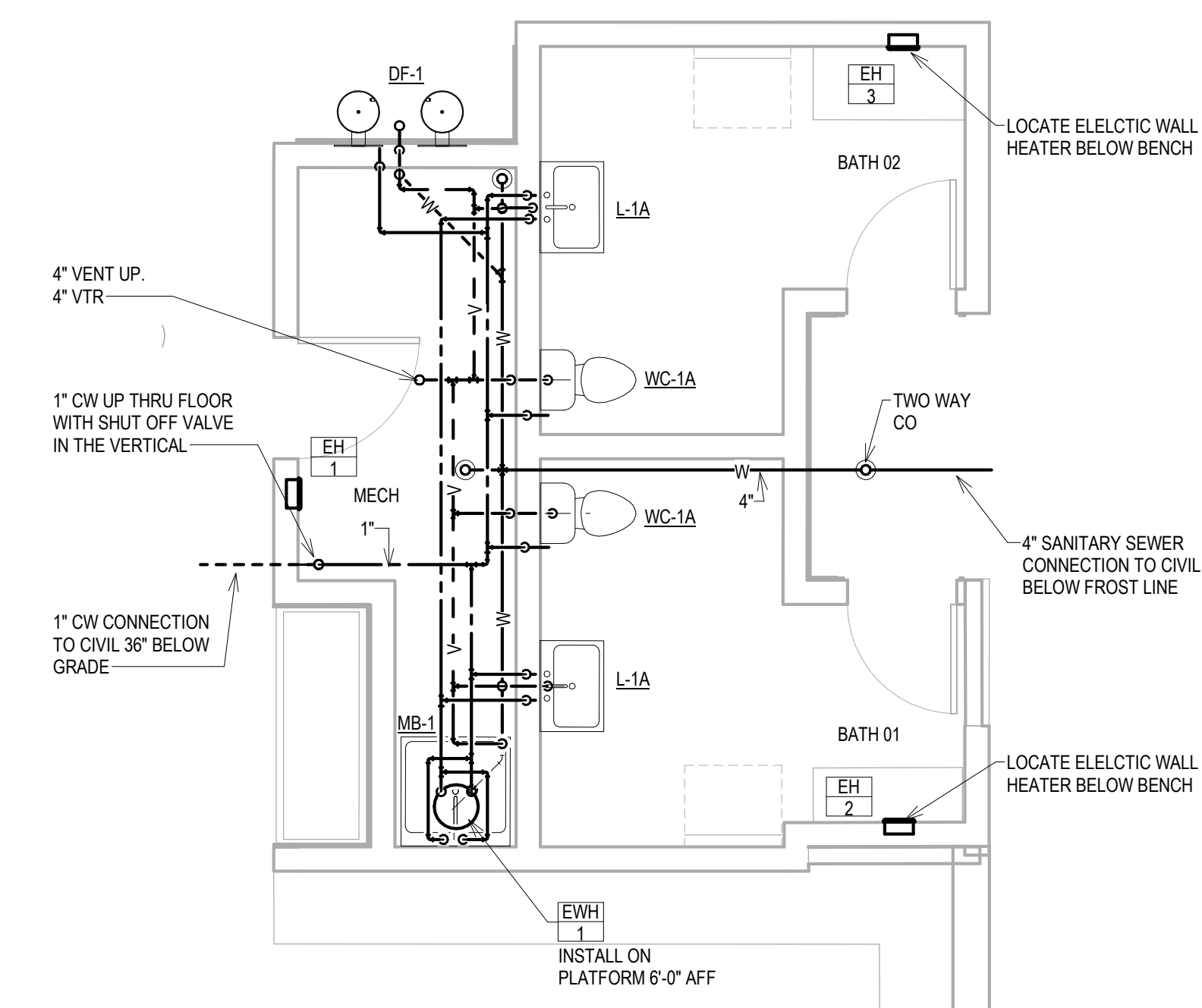
4 WALL MOUNTED ELECTRIC WATER HEATER DETAIL  
NO SCALE



3 SANITARY WASTE AND VENT RISER DIAGRAM  
NO SCALE



2 DOMESTIC WATER RISER DIAGRAM  
NO SCALE



1 PAVILION PLUMBING PLAN  
1/4" = 1'-0"

### PLUMBING GENERAL NOTES

- ALL WORK SHALL COMPLY WITH REQUIREMENTS OF NATIONAL AND LOCAL CODES, WHICHEVER IS MORE STRINGENT.
- PROVIDE OFFSETS AS REQUIRED TO MEET SPACE REQUIREMENTS AND TO AVOID INTERFERENCE WITH OTHER TRADES. NOT ALL PIPING RISERS AND DROPS ARE SHOWN. ROUTE ALL PIPING AS HIGH AS POSSIBLE UNLESS NOTED OTHERWISE.
- COORDINATE FINAL LOCATION OF NEW PIPING AND PLUMBING FIXTURES WITH STRUCTURE, LIGHTING, ARCHITECTURAL ELEMENTS, DUCTWORK, PIPING AND SPRINKLERS.
- REFER TO PLUMBING DETAILS FOR ACCESSORIES AND FINAL CONNECTIONS TO PLUMBING EQUIPMENT.
- PROVIDE SHUTOFF VALVES IN EACH PRESSURE PIPING BRANCH TAKEOFF AND EACH BRANCH SERVING THREE OR MORE FIXTURES.
- PROVIDE ADEQUATE CLEARANCE FOR INSULATION IN HANGERS, FROM STRUCTURE AND FROM EQUIPMENT.
- SLOPE SANITARY WASTE AND VENT PIPING AT 1/4 INCH PER FOOT (2%) UNLESS OTHERWISE INDICATED.
- INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION AND TO MINIMIZE STRESSING OF EQUIPMENT AND FIXTURE CONNECTIONS.
- WHERE ANY CONTROL VALVE, MANUAL VALVE, DRAIN OR AIR VENT CANNOT BE ACCESSED OR VIEWED THROUGH LAY-IN CEILING OR OTHER CONVENIENT MEANS, COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE A MINIMUM 24 INCH X 24 INCH ARCHITECTURALLY ACCEPTABLE RATED ACCESS PANEL AT EACH INACCESSIBLE LOCATION.
- CONNECT PIPE AND EQUIPMENT HANGERS TO TOP CHORD OF ROOF JOISTS, BEAM FLANGES OR CONCRETE FLOOR DECK, BY APPROVED MEANS.
- CONCRETE CURBS AND PADS ARE PROVIDED BY OTHERS. COORDINATE EXACT SIZES AND LOCATIONS.
- REFER TO ARCHITECTURAL FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF FIXTURES AND EQUIPMENT.
- ALL PLUMBING VENT-THRU-ROOF SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY WALL OR VERTICAL SURFACE AND A MINIMUM OF 10'-0" FROM FRESH AIR INTAKES.
- PROVIDE 2-WAY CLEANOUT FOR SANITARY WASTE IMMEDIATELY OUTSIDE OF EXTERIOR WALL.

## LAKE BYLLESBY PARK PAVILION + BEACH BATH

50% PROGRESS SET

NOT FOR CONSTRUCTION

09/22/2021

CLIENT  
GOODHUE COUNTY

No.	Description	Date

SHEET NAME

# PLUMBING PLAN, SCHEDULES AND DETAILS

SHEET NUMBER

# P-101



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### PLUMBING GENERAL NOTES

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- ALL PLUMBING VENT-THRU-ROOF SHALL BE LOCATED A MINIMUM OF 2'-0" FROM ANY WALL OR VERTICAL SURFACE AND A MINIMUM OF 10'-0" FROM FRESH AIR INTAKES.
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### PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	ADA	COLD (IN)	HOT (IN)	WASTE (IN)	VENT (IN)	FIXTURE		TRIM		NOTES
							MANUFACTURER	MODEL	MANUFACTURER	MODEL	
DF-1	BH-LEVEL, HEAVY DUTY VANDAL RESISTANT, FREEZE RESISTANT, STAINLESS STEEL DRINKING FOUNTAIN	Yes	1/2	-	1 1/2	1 1/2	ELKAY	EHWM17FPK	KOHLER	CORALAIS K-15240-4NDRA	1
L-1A	WALL MOUNTED BATHROOM SINK WITH MANUAL 2 HANDLE 0.5 GPM FAUCET	Yes	1/2	1/2	1 1/2	1 1/2	KOHLER	KINSTON K-2005	KOHLER		2
MB-1	24"x24" MOLDED STONE MOP SERVICE BASIN WITH SERVICE FAUCET	No	3/4	3/4	3	1 1/2	FIAT PRODUCTS	MSBIDTG2424			
WC-1A	FLOOR MOUNTED PRESSURE ASSIST TANK TYPE TOILET, ENLARGED BOWL, ADA HEIGHT, WHITE, 1.6 GPF	Yes	1/2	-	4	2	KOHLER	K-3493-SS	KOHLER	K-4650	

**NOTES:**

- PROVIDE WITH MOLDED COVERING FOR WATER AND WASTE PIPING, TRUBRO LAV GUARD2.
- PACKAGE INCLUDES FAUCET, HOSE AND BRACKET, MOP HANGER.

### ELECTRIC WATER HEATER SCHEDULE

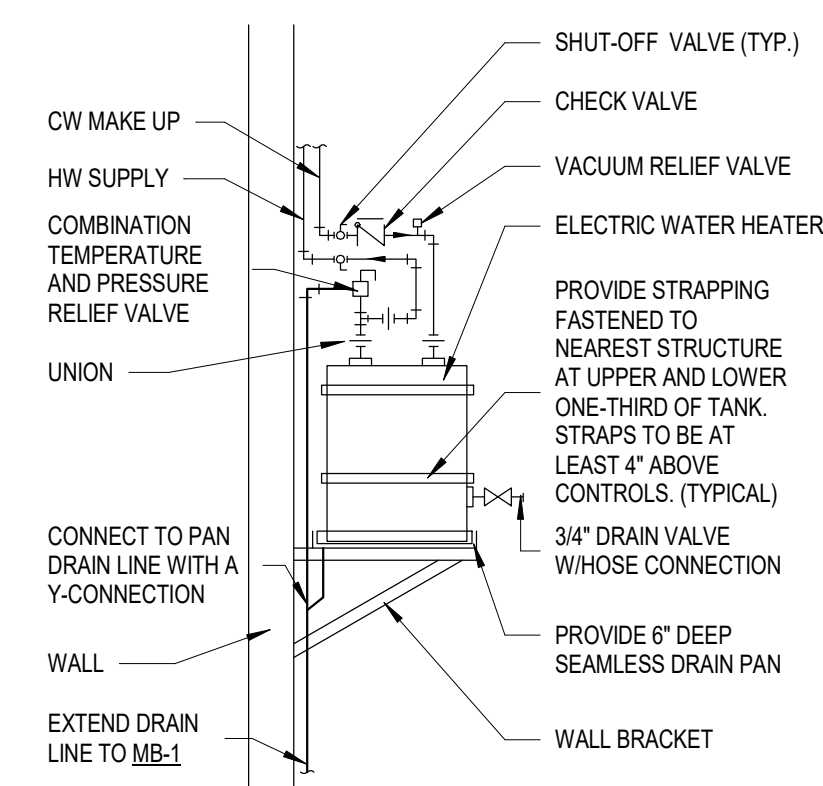
MARK	LOCATION	ELECTRICAL DATA					STORAGE CAPACITY (GALLONS)	TEMPERATURE SETTING (°F)	RECOVERY		MANUFACTURER	MODEL	NOTES	EXPANSION TANK	
		NUMBER OF ELEMENTS	KW (EACH)	VOLTAGE	PHASE	HZ			WATER GPH	TEMP RISE (°F)				MANUFACTURER	MODEL
EWH 1	MECH	1	2	120	1	60	6	120	8	100	A O SMITH	DEL 6		AMTROL	ST-5

### ELECTRIC WALL HEATER SCHEDULE

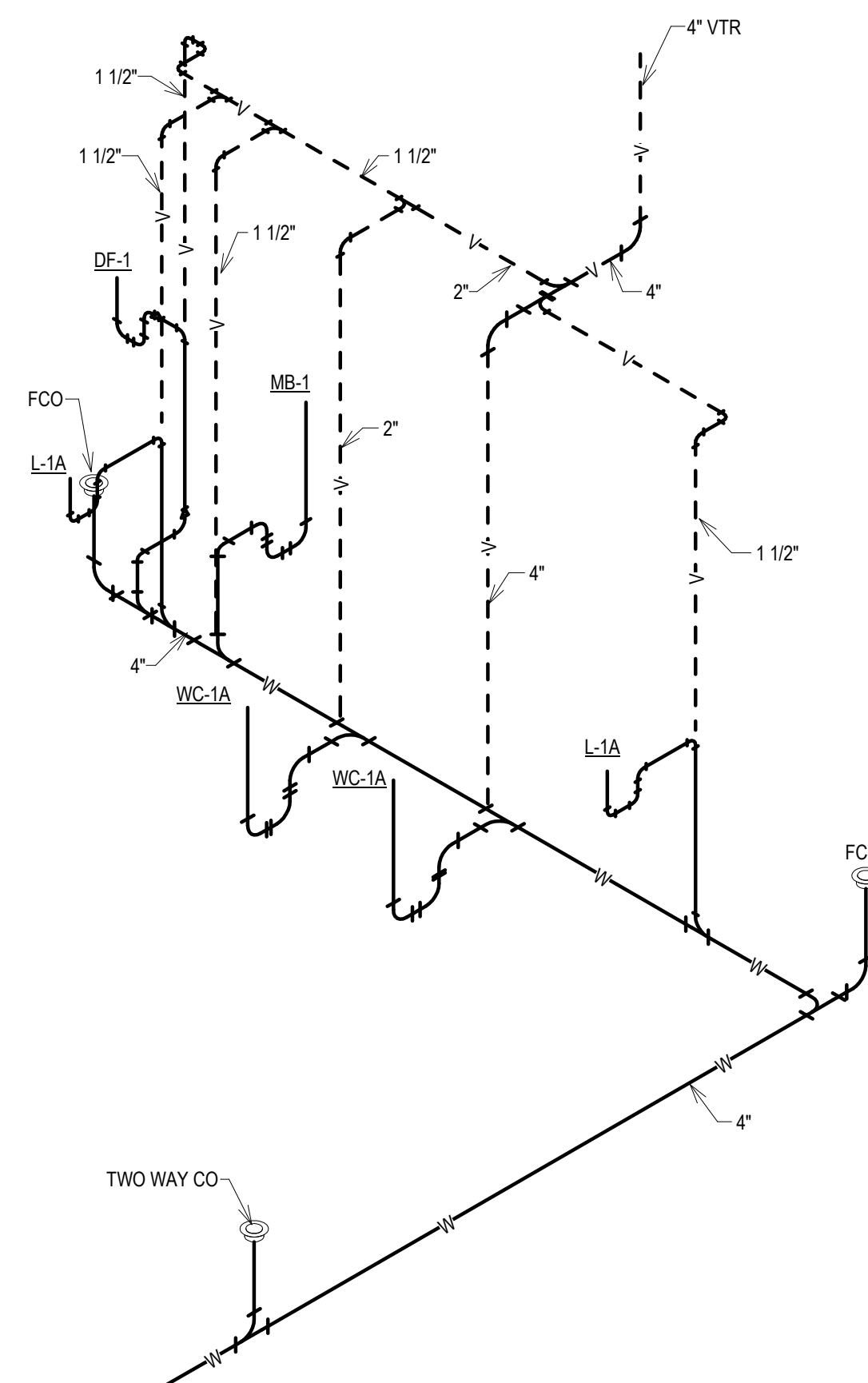
MARK	LOCATION	AIRFLOW (CFM)	ELECTRICAL DATA				MANUFACTURER	MODEL	NOTES
			WATTS	VOLTAGE	PHASE	HZ			
EH 1	MECH	65	500	120	1	60	QMARK	CWH1101DSF	1
EH 2	BATH 01	65	500	120	1	60	QMARK	CWH1101DSF	1
EH 3	BATH 02	65	500	120	1	60	QMARK	CWH1101DSF	1

**NOTES:**

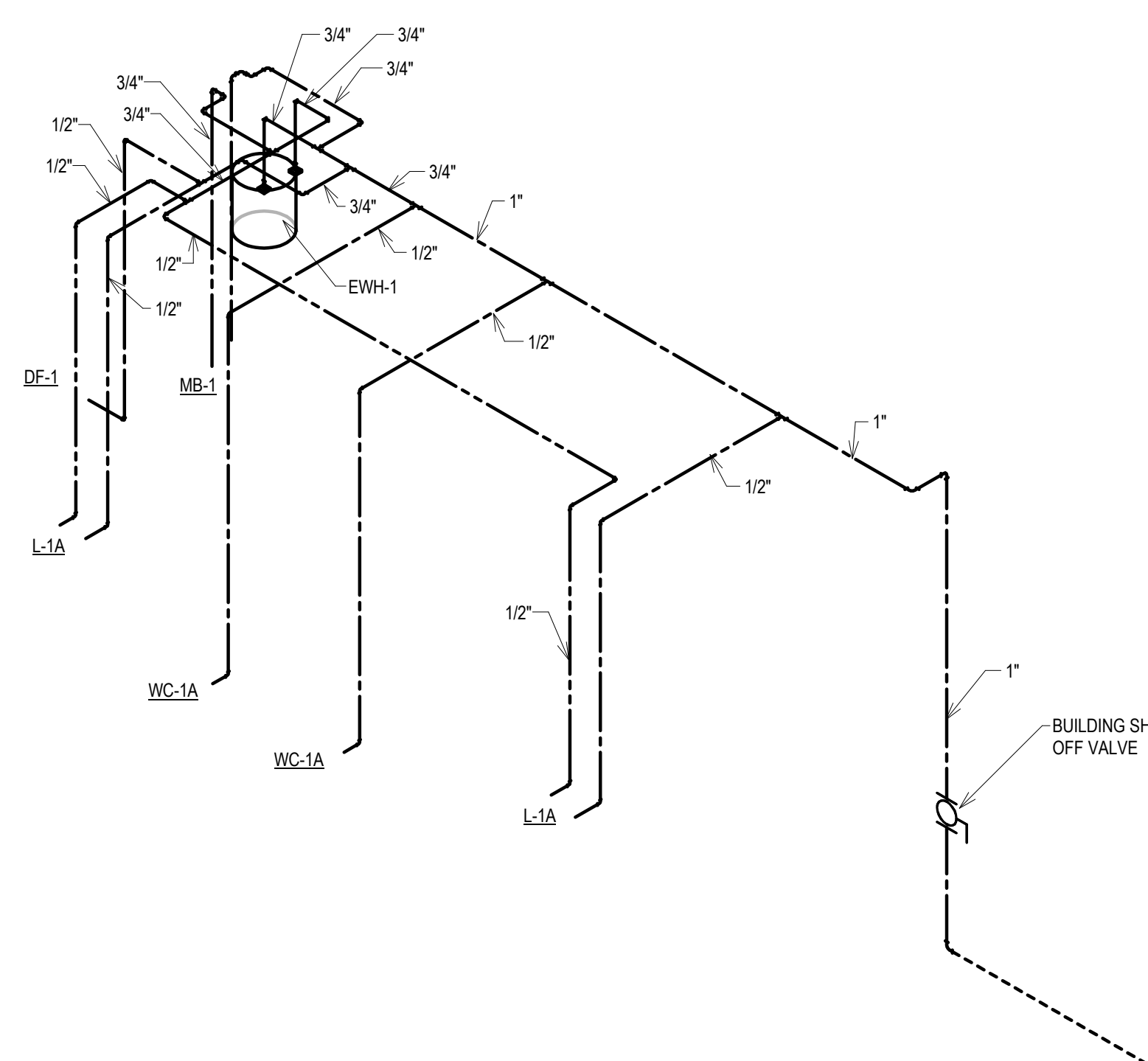
- PROVIDE WITH SURFACE MOUNTING FAME.



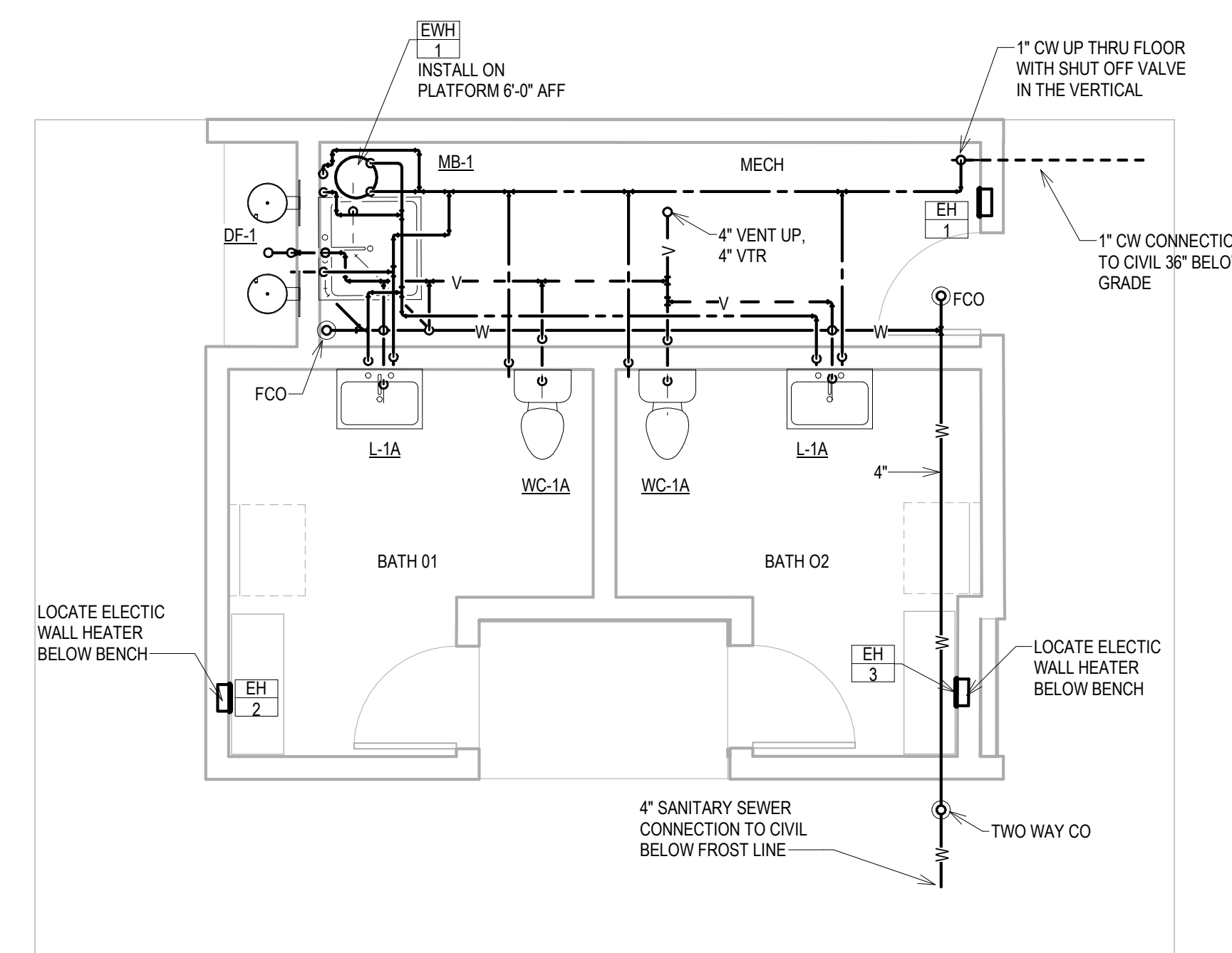
4 WALL MOUNTED ELECTRIC WATER HEATER DETAIL  
 SP-101 NO SCALE



3 SANITARY WASTE AND VENT RISR DIAGRAM  
 SP-101 NO SCALE



2 DOMESTIC WATER RISER DIAGRAM  
 SP-101 NO SCALE



1 BEACH BATH PLUMBING PLAN  
 SP-101 1/4" = 1'-0"

## LAKE BYLLESBY PARK PAVILION + BEACH BATH

50% PROGRESS SET

NOT FOR CONSTRUCTION

09/22/2021

CLIENT  
 GOODHUE COUNTY

No.	Description	Date

SHEET NAME

# PLUMBING PLAN, SCHEDULES, AND DETAILS

SHEET NUMBER

# SP-101







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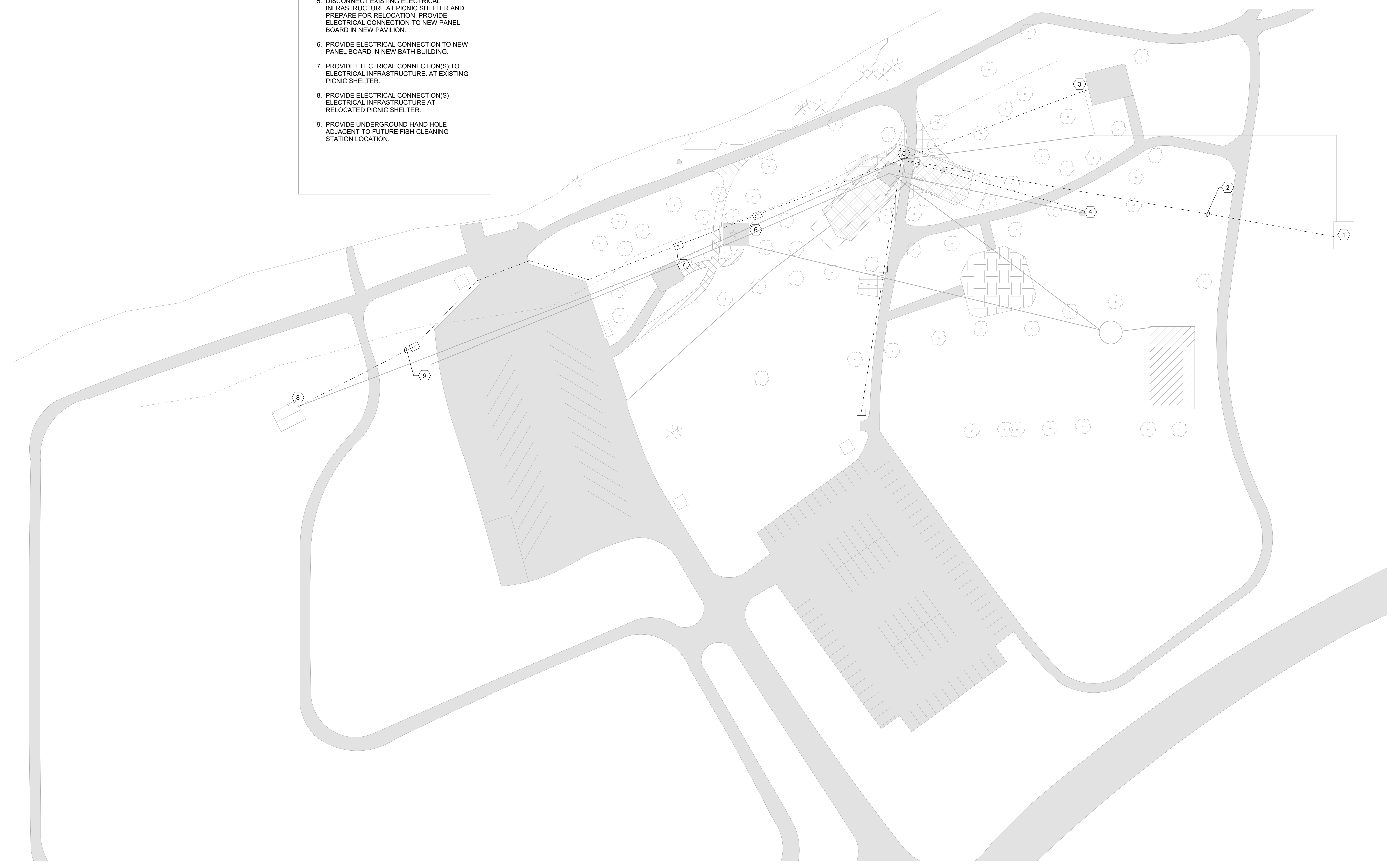
No.	Description	Date

**SHEET NAME**  
**ELECTRICAL  
SITE PLAN**

**SHEET NUMBER**  
**E-101**

- KEYED SHEET NOTES**
1. PROVIDE NEW 240 V 200 A ELECTRICAL SERVICE FROM EXISTING OVERHEAD UTILITY. PROVIDE METER AND CT CABINET PER UTILITY REQUIREMENTS.
  2. PROVIDE NEW ELECTRICAL SERVICE CONDUCTORS PAVILION.
  3. PROVIDE ELECTRICAL CONNECTION(S) TO ELECTRICAL INFRASTRUCTURE AT EXISTING PICNIC SHELTER.
  4. DISCONNECT EXISTING ELECTRICAL WELL AND EQUIPMENT AND PREPARE FOR REMOVAL. PROVIDE ELECTRICAL CONNECTION(S) AS REQUIRE TO NEW WELL EQUIPMENT.
  5. DISCONNECT EXISTING ELECTRICAL INFRASTRUCTURE AT PICNIC SHELTER AND PREPARE FOR RELOCATION. PROVIDE ELECTRICAL CONNECTION TO NEW PANEL BOARD IN NEW PAVILION.
  6. PROVIDE ELECTRICAL CONNECTION TO NEW PANEL BOARD IN NEW BATH BUILDING.
  7. PROVIDE ELECTRICAL CONNECTION(S) TO ELECTRICAL INFRASTRUCTURE. AT EXISTING PICNIC SHELTER.
  8. PROVIDE ELECTRICAL CONNECTION(S) ELECTRICAL INFRASTRUCTURE AT RELOCATED PICNIC SHELTER.
  9. PROVIDE UNDERGROUND HAND HOLE ADJACENT TO FUTURE FISH CLEANING STATION LOCATION.

- GENERAL SHEET NOTES**
- A. ALL ELECTRICAL CONDUCTORS INSTALLED BELOW GRADE SHALL HAVE TYPE XHHW-2 INSULATION AND SHALL BE A MINIMUM OF #8 AWG CU.
  - B. ALL BURIED ELECTRICAL CONDUIT SHALL BE SCHEDULE 40 PVC. PROVIDE SCHEDULE 80 PVC WHERE CONDUIT PASSES UNDER PAVED ROADWAYS OR WALKWAYS. BURY ALL ELECTRICAL CONDUIT A MINIMUM OF 24" BELOW GRADE.





**ARCHITECT OF RECORD**  
LOCUS ARCHITECTURE  
4453 Nicollet Ave.  
Minneapolis, MN 55419  
Wynne Yelland  
612.232.3609

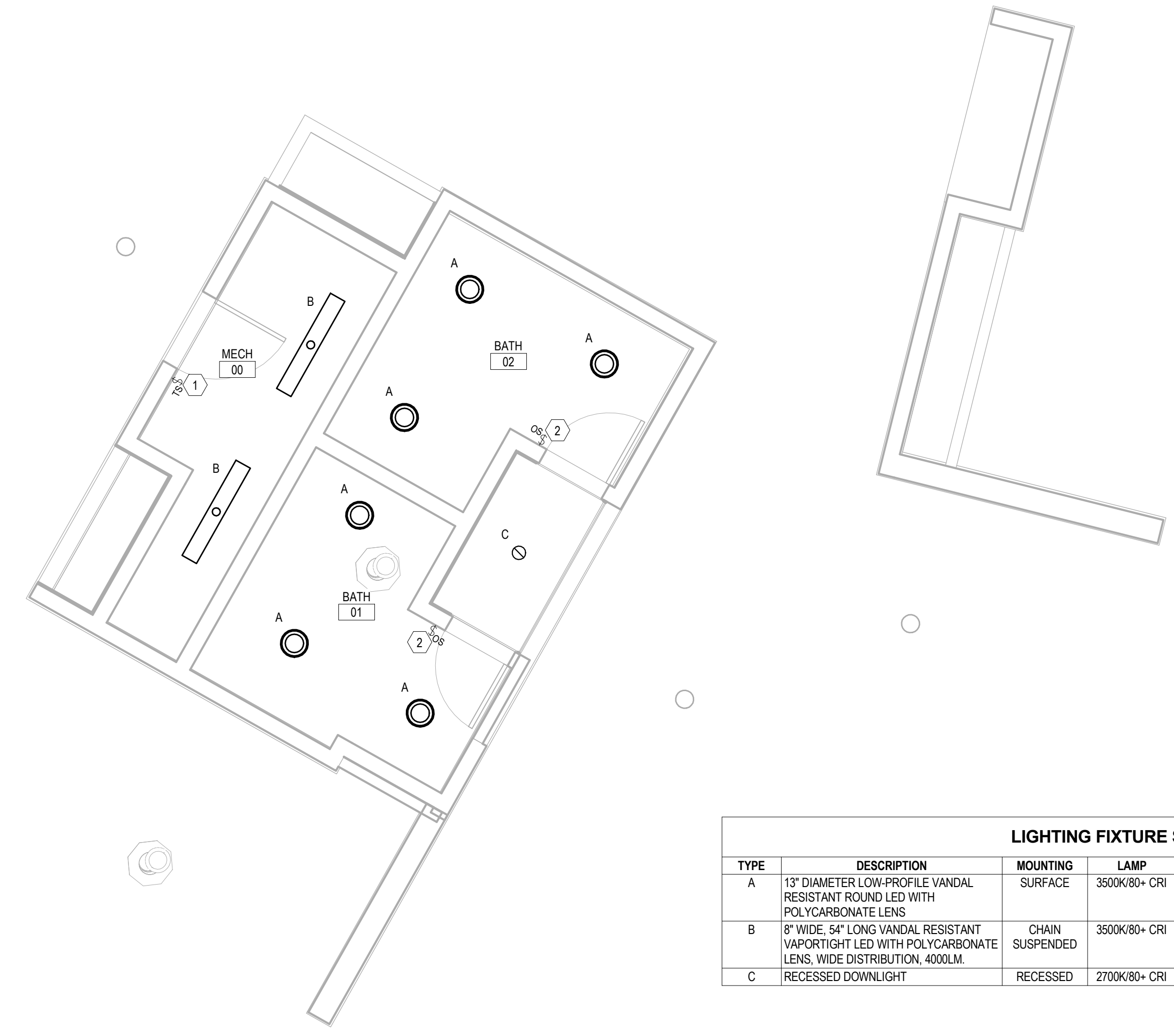
**STRUCTURAL ENGINEER**  
MEYER BORGMAN JOHNSON  
510 S Marquette Ave UNIT 900,  
Minneapolis, MN 55402  
Murphy Curran, PE  
612.604.3623

**CIVIL ENGINEER**  
SRF CONSULTING  
3701 Wayzata Boulevard Suite 100,  
Minneapolis, MN 55416  
Ken Grieshaber, PLA,ASLA  
763.249.6709

**MECHANICAL & ELECTRICAL ENGINEER**  
VICTUS ENGINEERING  
2327 Wycliff St Suite 230,  
St Paul, MN 55114  
Willow Nichols, PE  
415.314.7882

- GENERAL SHEET NOTES**
- A. ALL ELECTRICAL LUMINAIRES, EQUIPMENT, AND DEVICES ON THIS SHEET ARE NEW, UNLESS NOTED OTHERWISE.
  - B. CIRCUIT WIRING IS NOT SHOWN. PROVIDE NUMBER OF CONDUCTORS NEEDED TO ACHIEVE CIRCUITING AND SWITCHING ARRANGEMENTS INDICATED.
  - C. CONFIGURE LIGHTING CONTROL DEVICES FOR OCCUPANCY (AUTO-ON, AUTO-OFF) OPERATION, UNLESS NOTED OTHERWISE.
  - D. SET TIME DELAY OF ALL OCCUPANCY SENSING DEVICES TO TWENTY (20) MINUTES, UNLESS NOTED OTHERWISE.
  - E. WHERE CONNECTED TO A 20 A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED FOR 20 A.
  - F. CONNECT ALL NEW BRANCH CIRCUITS TO PANEL LC-P. NUMERICAL TAGS AT ELECTRICAL DEVICES INDICATE CIRCUIT/BREAKER NUMBER.
  - G. PROVIDE DEDICATED CIRCUIT FOR EACH RECEPTACLE SHOWN.

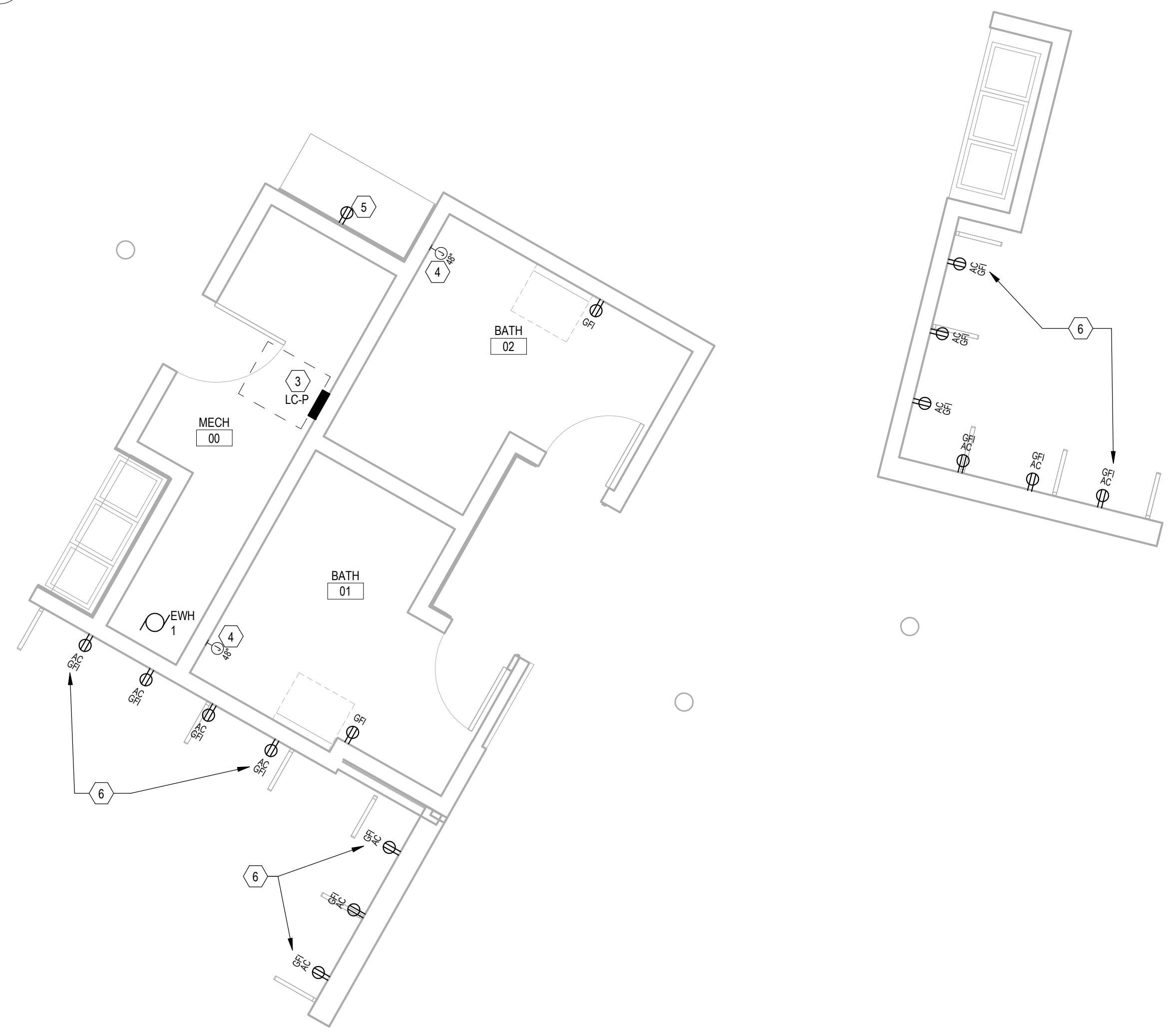
- KEYED SHEET NOTES**
1. PROVIDE WALL MOUNTED DIGITAL TIME SWITCH, ADJUSTMENT RANGE 5 MINUTES TO 12 HOURS, AUDIBLE AND FLASH WARNING, WITH POWER PACK AND CONTROLLER. WATTSTOPPER TS-400 OR EQUIVALENT.
  2. PROVIDE COMBINATION PIR OCCUPANCY SENSOR/SWITCH, WALL MOUNTED, LINE VOLTAGE, WITH ON-OFF PUSHBUTTON. WATTSTOPPER PW-301-W OR EQUIVALENT.
  3. PROVIDE 240/120 V SINGLE-PHASE, SURFACE-MOUNTED PANELBOARD WITH A SERVICE-RATED 200A MCB.
  4. PROVIDE DEDICATED 240V SINGLE-PHASE CONNECTION TO ELECTRIC HAND DRYER. PROVIDE 20A CIRCUIT BREAKER. COORDINATE EXACT INSTALLATION HEIGHT WITH EQUIPMENT MANUFACTURER.
  5. PROVIDE DEDICATED 120V 15A RECEPTACLE FOR WATER FOUNTAIN/BOTTLE FILLER.
  6. INSTALL RECEPTACLES HORIZONTALLY ABOVE EXTERIOR COUNTER. TYP ALL RECEPTACLES ABOVE COUNTER.



**LIGHTING FIXTURE SCHEDULE**

TYPE	DESCRIPTION	MOUNTING	LAMP	VOLT	WATT	MFR	CATALOG SERIES	NOTE
A	13" DIAMETER LOW-PROFILE VANDAL RESISTANT ROUND LED WITH POLYCARBONATE LENS	SURFACE	3500K/80+ CRI	120 V	10 W	KENALL	MR13FL PP XX 10L35K DV	
B	8" WIDE, 54" LONG VANDAL RESISTANT VAPORTIGHT LED WITH POLYCARBONATE LENS, WIDE DISTRIBUTION, 4000LM.	CHAIN SUSPENDED	3500K/80+ CRI	120 V	33 W	LITHONIA	VAP-4000LM FST WD MVOLT GZ10 35K 80CRI	
C	RECESSED DOWNLIGHT	RECESSED	2700K/80+ CRI	120 V	19 W	TBD	TBD	

1 LEVEL 1 LIGHTING PLAN  
E-201 1/4" = 1'-0"



**ELECTRICAL EQUIPMENT SCHEDULE**

NO.	DESCRIPTION	LOCATION		VOLT	PHASE	CONDUIT & WIRE SIZE	NOTES
		NAME	NUMBER				
EWH 1	ELECTRIC WATER HEATER	MECH	00	120 V	1	3/4" C, 2#10, #12G	

2 LEVEL 1 POWER PLAN  
E-201 1/4" = 1'-0"

**LAKE BYLLESBY  
PARK PAVILLION +  
BEACH BATH**

50% PROGRESS SET

NOT FOR CONSTRUCTION

09/22/2021

CLIENT  
GOODHUE COUNTY

No.	Description	Date

SHEET NAME  
**PAVILLION  
ELECTRICAL  
PLANS**

SHEET NUMBER  
**E-201**









**Greg Isakson, P.E.**  
 Public Works Director/County Engineer  
 Goodhue County Public Works Department

2140 Pioneer Road  
 Red Wing, MN 55066  
 Office (651) 385-3025

TO: Goodhue County Parks, Trails, and Recreation Advisory Board  
 FROM: Greg Isakson, Public Works Director  
 RE: 07 Oct 21 Park Board Meeting  
**Byllesby Park Berm Planting Plan**  
 Date: 01 Oct 21

Summary

It is requested that the Park Board review and approve Byllesby Park berm planting concepts, plant sizes, budget goals, and project funding.

Background

The eastern 26 acres of Byllesby Park, commonly referred to as “the Goudy Property” or the “Savanna Campground” in the 2017 Byllesby Park Master Plan, is currently an undeveloped and underutilized portion of the park. The Park Board has identified building a berm on this property along Highway 19 as the next priority grant project, with the goal of creating a sound, visual, and light buffer between the highway and the proposed walking trails/campground. Even if the campground is not developed for many years, this will give plant material an opportunity to grow enough to help block noise and light.

Goodhue County has utilized the soil stockpile from the Mill Towns State Trail construction, along with soil removed during routine county road ditch cleaning/maintenance, to create a berm along Highway 19. The berm follows the elevation of the highway, has been seeded to prevent erosion, and will later be planted with layers of trees and shrubs to create a visual and noise barrier between the park and Highway 19. Plantings and wood mulch may be installed using local funds or under a grant application sometime between 2024-2026.

Staff has prepared two different planting options for the berm (attached). Option 1 is a more “landscaped” look that includes grouping of plants to provide pockets of color and an overall tidier appearance. Option 2 is a more “natural” look that has the different species intermingled. Some pricing and plant sizing options have been prepared as a starting point:

**Planting Sizes with Approximate Cost Increase Per Year**

Planting Size	2021	2022	2023	2024	2025
Smaller Containers (#10 trees, #2 shrubs)	\$10,750.00	\$11,072.50	\$11,404.68	\$11,746.82	\$12,099.22
Larger Containers (#20 trees, #5 shrubs)	\$17,250.00	\$17,767.50	\$18,300.53	\$18,849.54	\$19,415.03

\*Estimated price increase of 3% per year



Mulching should require approximately 35-40 yards to mulch around each plant or approximately 900 yards to mulch the entire berm. A 45 yard load may run approximately \$1,000 delivered in 2023. 900 yards may run approximately \$18,675 delivered in 2023.

### Recommendations

It is recommended that the Park Board:

- Choose a planting concept
- Identify any plant species they would like to add or change
- Identify desired sizes of plant material to install
- Set project budget goals and identify if this project should be submitted for a grant funding request.



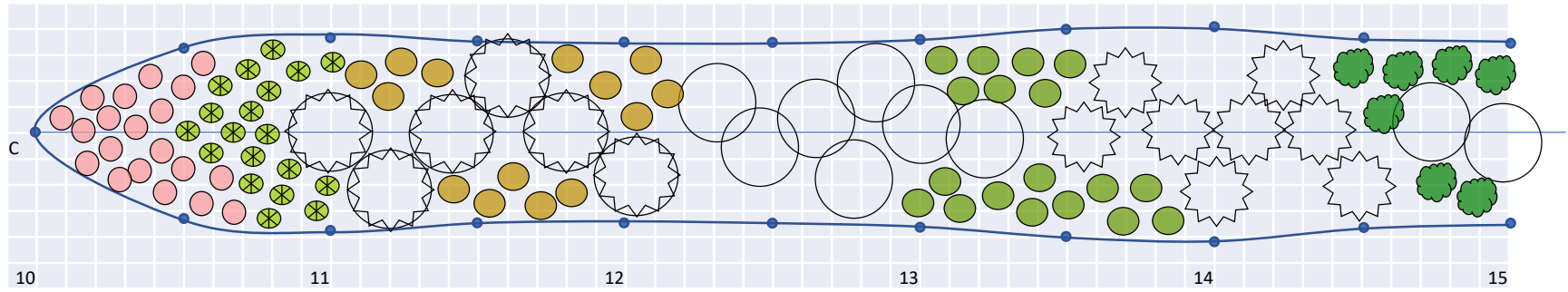
OPTION 1 - LANDSCAPED BERM PLANTINGS

CHOKEBERRY (19)

SCOTCH PINE (6)

IRONWOOD (7)

BLACK HILLS SPRUCE (8)



CAROLINA ROSE (20)

HAZELNUT (14)

BIG BLUESTEM (40)

ELDERBERRY (18)

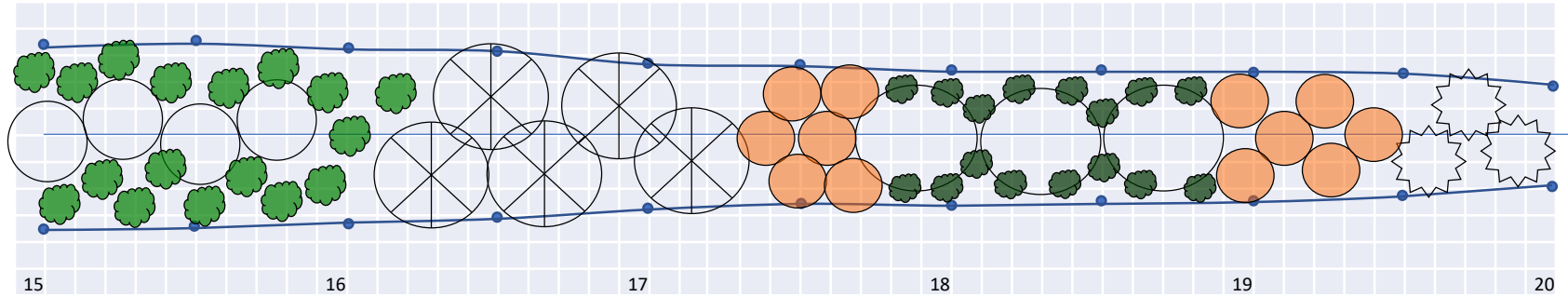
BASSWOOD (5)

AUSTRIAN PINE (5)

SERVICEBERRY (6)

RED MAPLE (3)

SERVICEBERRY (6)



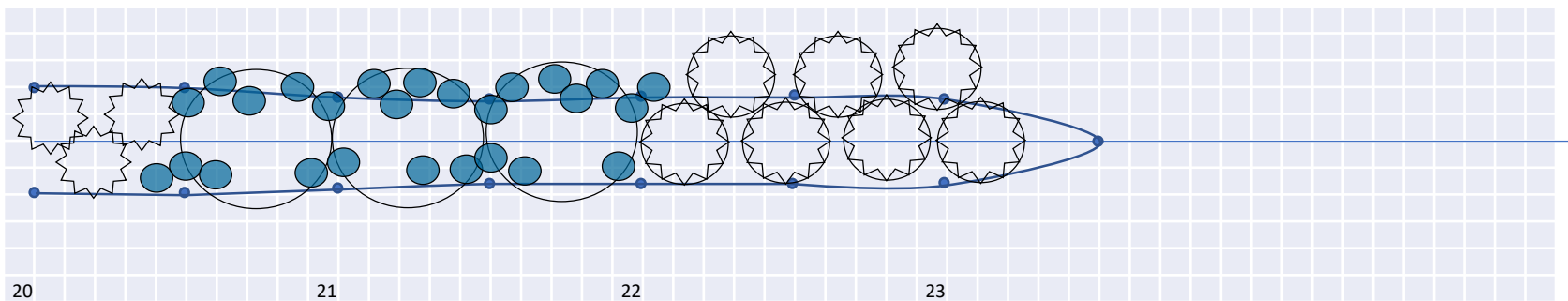
NANNYBERRY VIBURNUM (23)

WINTERBERRY (16)

BLACK HILLS SPRUCE (6)

N. PIN OAK (3)

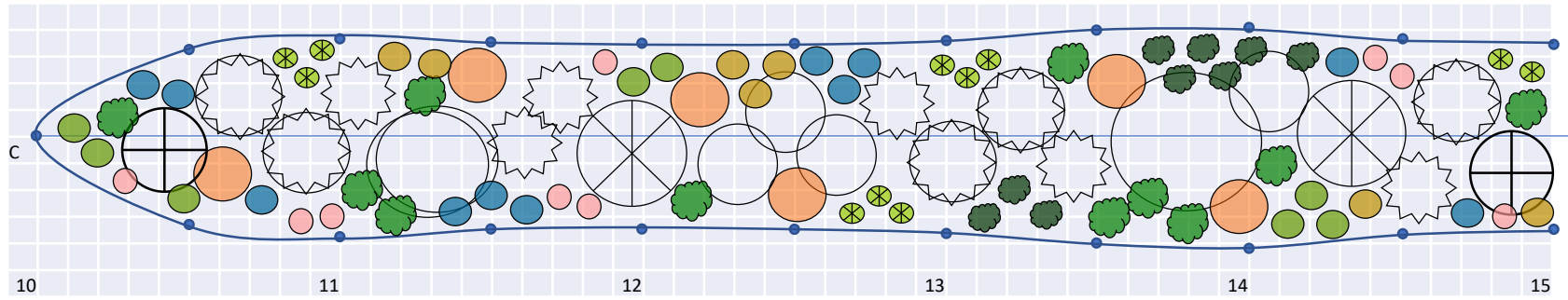
SCOTCH PINE (7)



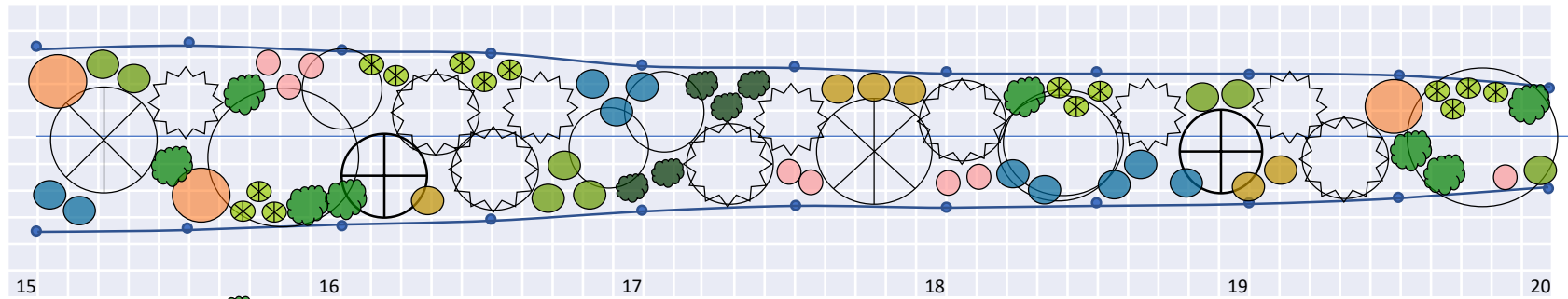
CHICAGO LUSTRE & BLUE MUFFIN VIBURNUM (26)



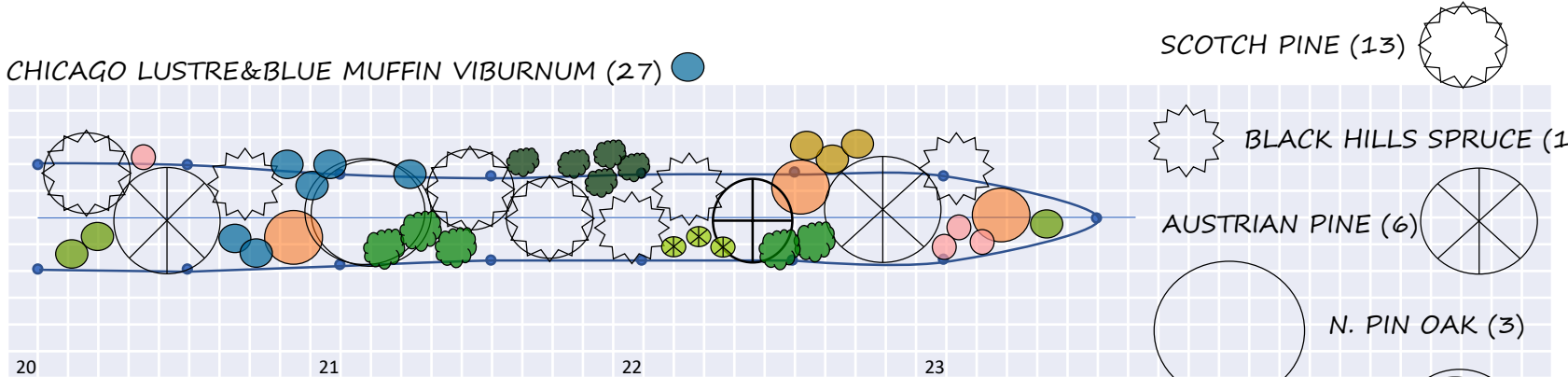
# OPTION 2 - NATURALIZED BERM PLANTINGS



- CAROLINA ROSE (21)
- HAZELNUT (16)
- ⊗ CHOKEBERRY (29)
- ELDERBERRY (19)



- NANNYBERRY VIBURNUM (24)
- WINTERBERRY (19)



- CHICAGO LUSTRE & BLUE MUFFIN VIBURNUM (27)

- SCOTCH PINE (13)
- BLACK HILLS SPRUCE (15)
- AUSTRIAN PINE (6)
- N. PIN OAK (3)
- RED MAPLE (3)

- IRONWOOD (7)
- BASSWOOD (5)
- SERVICEBERRY (12)



**Greg Isakson, P.E.**  
*Public Works Director/County Engineer*  
*Goodhue County Public Works Department*

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2140 Pioneer Road  
Red Wing, MN 55066  
Office (651) 385-3025

TO: Goodhue County Parks, Trails, and Recreation Advisory Board

FROM: Greg Isakson, Public Works Director

RE: 07 Oct 21 Park Board Meeting  
**Fishing at Lake Byllesby**

Date: 01 Oct 21

Summary

It is requested that the Park Board discuss fishing at Lake Byllesby.

Background

Public Works staff has received input that quality fishing experiences on the lake are decreasing. As the park is primarily water activity based, staff is looking for input and direction on whether discussions with the DNR should be initiated regarding fish in Lake Byllesby.