





**LEGEND:**

EXISTING CONDITIONS:	
--- 110 ---	EXISTING MAJOR CONTOUR
--- 200.1 ---	EXISTING MINOR CONTOUR
X 200.1	EXISTING SPOT GRADE
[Hatched Box]	EXISTING BUILDING
X-X-X	EXISTING FENCE
[Dashed Line]	EXISTING STONE WALL
[Wavy Line]	EXISTING POND/LAKE
[Dotted Line]	EXISTING TREE LINE
DHW	EXISTING OVERHEAD WIRES
W	EXISTING WATER LINE
ST	EXISTING UNDERGROUND STORM LINE
[Circle]	EXISTING DECIDUOUS TREE
[Circle]	EXISTING TREE STUMP
[Circle]	EXISTING CAPPED IRON ROD
[Circle]	EXISTING MAGNETIC NAIL FOUND
[Circle]	EXISTING SPIKE FOUND
[Circle]	EXISTING BENCHMARK
[Circle]	EXISTING SANITARY MANHOLE
[Circle]	EXISTING CLEANOUT
[Circle]	EXISTING CUY WIRE
[Circle]	EXISTING UTILITY POLE
[Circle]	EXISTING LIGHT POLE
[Circle]	EXISTING GATE POST



LAKE TIORATI

**NOTES:**

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

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SUBJECT TO COVENANTS, EASEMENTS, RESTRICTIONS, CONDITIONS AND AGREEMENTS OF RECORD.

THE LOCATION OF UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS ARE NOT ALWAYS KNOWN AND OFTEN MUST BE ESTIMATED. IF ANY UNDERGROUND IMPROVEMENTS OR ENCROACHMENTS EXIST OR ARE SHOWN, THE IMPROVEMENTS OR ENCROACHMENTS ARE NOT COVERED BY THIS CERTIFICATE.

SUBSURFACE STRUCTURES NOT VISIBLE OR READILY APPARENT ARE NOT SHOWN AND THEIR LOCATION AND EXTENT ARE NOT CERTIFIED.

LOCATION OF EXISTING PROPERTY MARKERS NOT SHOWN OR CERTIFIED BY THIS SURVEY.

BUILDINGS SHOWN HEREON SERVED BY UNDERGROUND UTILITIES.

TOPOGRAPHY SHOWN HEREON WITHIN "LIMITS OF LABELLA TOPO" WAS COMPILED FROM A FIELD SURVEY COMPLETED DECEMBER 23, 2022 BY LABELLA ASSOCIATES, DATUM NAVD88, 1 FOOT CONTOUR INTERVAL. TOPOGRAPHY AND PLANIMETRICS SHOWN OUTSIDE THE "LIMITS LABELLA TOPO" WAS COMPILED FROM AERIAL MAPPING PREPARED BY MID-ATLANTIC PHOTOGRAMMETRIC SERVICES, INC. FROM PHOTOGRAPHY DATED MAY 9, 2005, 2 FOOT CONTOUR INTERVAL.

SANITARY SEWER LINES AND STRUCTURES ARE PER FIELD SURVEY UNLESS OTHERWISE NOTED.

HORIZONTAL CONTROL AND NORTH ORIENTATION IS BASED UPON THE NORTH AMERICAN DATUM OF 1983 (NAD83 NY EAST) AS DERIVED FROM ON SITE STATIC GNSS OBSERVATIONS ON THE NYSDOT RTN NETWORK, DATED OCTOBER 2, 2022.

GROUND COORDINATES, US FEET. SCALE FACTOR: 1.0000851502  
 GRID = GROUND AT BASELINE POINT #1, N 885639.067', E 605436.874', Z 1063.25'

VERTICAL CONTROL IS BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88) AS DERIVED FROM ON SITE STATIC GNSS OBSERVATIONS ON THE NYSDOT RTN NETWORK, DATED OCTOBER 2, 2022.

UNDERGROUND UTILITIES SHOWN HEREON ARE FROM DATA OBTAINED FROM RECORD MAPS AND DRAWINGS. ALL ABOVE GROUND STRUCTURES, SURFACE FEATURES AND THE LOCATION OF THE MARK OUT ARE THE RESULT OF AN INSTRUMENT SURVEY COMPLETED BY LABELLA UNLESS OTHERWISE NOTED. THERE MAY BE OTHER UNDERGROUND UTILITIES, THE EXISTENCE OF WHICH ARE NOT KNOWN OR CERTIFIED BY THE UNDERSIGNED. THE SIZE AND LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES MUST BE VERIFIED BY THE APPROPRIATE AUTHORITIES AND DIG SAFELY NEW YORK MUST BE NOTIFIED PRIOR TO CONDUCTING TEST BORINGS, EXCAVATION OR CONSTRUCTION.

THE CONTRACTOR SHALL COMPLY WITH NEW YORK STATE INDUSTRIAL CODE RULE 753 - 48 HOURS PRIOR TO DIGGING CALL DIG SAFELY NEW YORK 1-800-962-7962 TO HAVE PUBLIC UTILITY LOCATIONS PAINTED.

LOCATION OF FACILITIES SHOWN OUTSIDE OF LIMITS OF FIELD SURVEY ARE SUBJECT TO WHATEVER STATE OF FACTS A FIELD SURVEY MAY REVEAL.

**MAP REFERENCES:**

- MAP ENTITLED "LAKE TIORATI SEWAGE DISPOSAL SYSTEM, LAYOUT OF PIPE LINE, PALISADES INTERSTATE PARK COMMISSION, BEAR MOUNTAIN, NEW YORK" DRAWING NO. 2/8 DATED 11/07/1968. PLAN PROVIDED BY NEW YORK STATE OFFICE OF PARKS, RECREATION & HISTORIC PRESERVATION.
- AERIAL MAPPING PREPARED BY MID-ATLANTIC PHOTOGRAMMETRIC SERVICES, INC., DATE OF PHOTOGRAPHY 05-09-2005, 2 FOOT CONTOUR INTERVAL, VERTICAL DATUM NAVD88.
- MAP ENTITLED "D CONSTRUCTION CO. INC., WATER LINE ASBUILT SURVEY LAKE TIORATI & LAKE CHASSAS HARRIMAN STATE PARK" PREPARED BY CHAZEN ENGINEERING & LAND SURVEYING CO., P.C. DATED 05/21/2006 AND LAST REVISED 07/28/2006.

**FLOOD ZONE NOTE:**

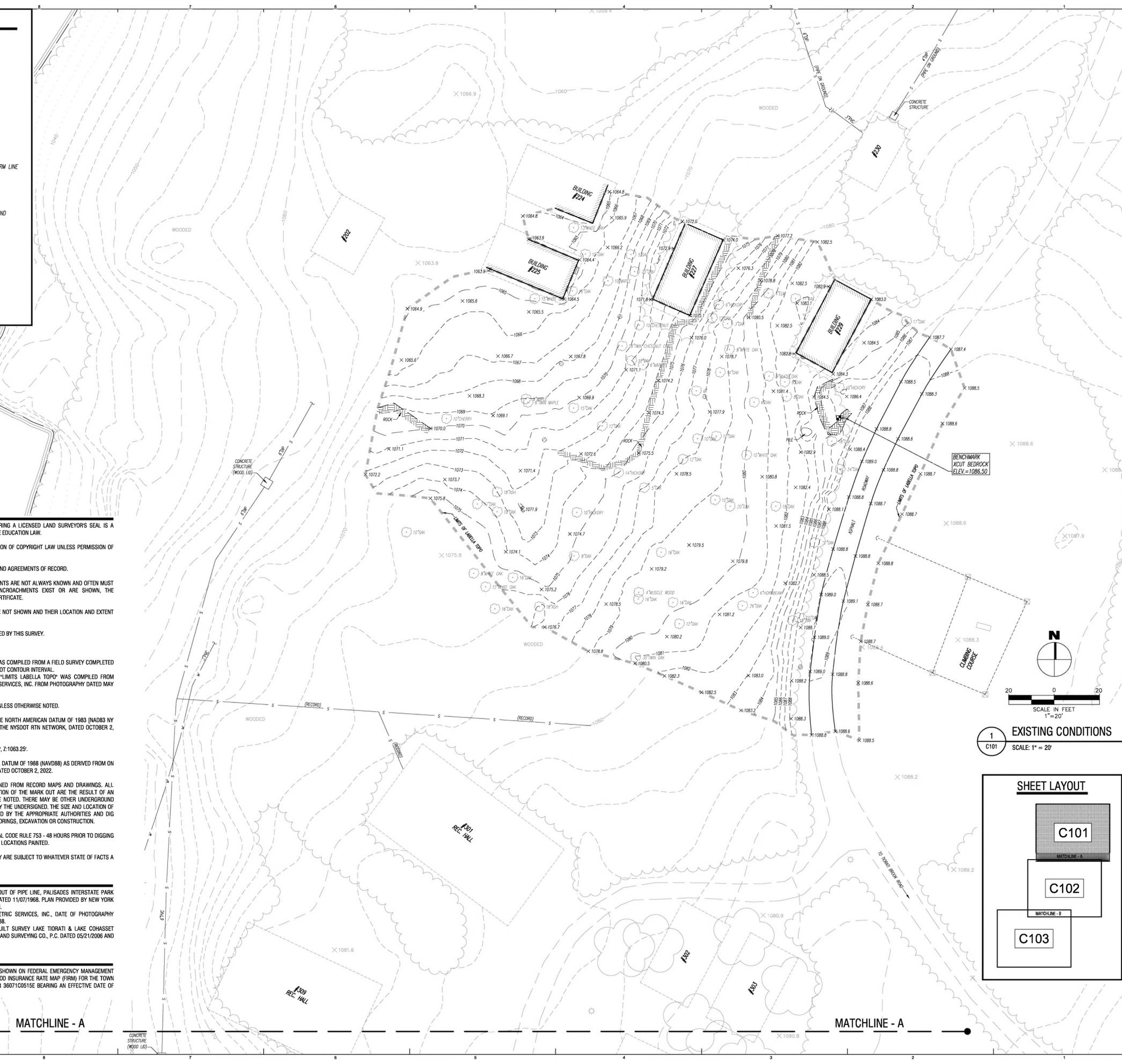
PARCELS ARE SHOWN TO LIE WITHIN "OTHER AREAS, ZONE X" AS SHOWN ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), NATIONAL FLOOD INSURANCE PROGRAM (NFIP) FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF TUXEDO (COMMUNITY NO. 360831), IDENTIFIED AS MAP NUMBER 36071C0515E BEARING AN EFFECTIVE DATE OF AUGUST 3, 2009.

MATCHLINE - A

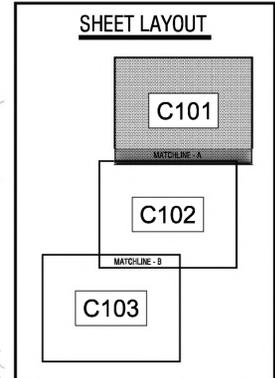
MATCHLINE - A

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 Date Printed: Mar 16, 2023, 9:12am  
 XXXXXXXX XX:XXPM

NOT FOR CONSTRUCTION



1 EXISTING CONDITIONS  
 SCALE: 1" = 20'



**New York State Parks, Recreation and Historic Preservation**  
 Governor Kathy Hochul Commissioner Erik Kulesseid

**Architect:**  
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**Surveyor / Structural / MEP Engineer:**  
 LABELLA ASSOCIATES  
 4 BRITISH AMERICAN BOULEVARD  
 LATHAM, NEW YORK 12110

**SARATOGA ASSOCIATES**  
 Landscape Architects, Architects, Engineers, and Planners, P.C.

**LaBella**  
 Powered by partnership.  
 2222163.05

**NYS OPRHP Palisades Region**  
 Palisades Interstate Park Commission  
 Bear Mountain, NY 10911  
 (845) 786-2701  
 Executive Director: James Hall  
 Capital Facilities Mngr: Michael Tesik

**Project Title:**  
 Camp Junior - Phase 3  
 Campground Rehabilitation  
 Contract No. D005876

**Project Location:**  
 Harriman State Park  
 Tiorati Brook Road  
 Tuxedo, NY 10987

**REVISIONS**

Rev No	Description	Date
1	EXISTING CONDITIONS	03/16/2023

Drawn By: CJS  
 Design By: N/A  
 Checked By: DHD  
 Approved By: DMS  
 Date: 03/16/2023

Seal and Signature

**Sheet Title:**  
 EXISTING CONDITIONS  
 BATHHOUSE #231

**Drawing Number:**  
 C101

BID DOCUMENTS SET

Project Number: 2021-059.23  
 Sheet: of X

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**Project Location:**  
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 Tuxedo, NY 10987

Rev No	Description	Date
1		
2		
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6		

Drawn By: CJS  
 Design By: N/A  
 Checked By: DHD  
 Approved By: DMS  
 Date: 03/16/2023

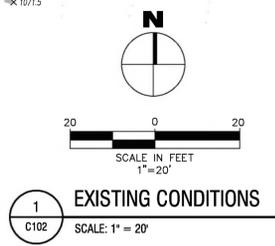
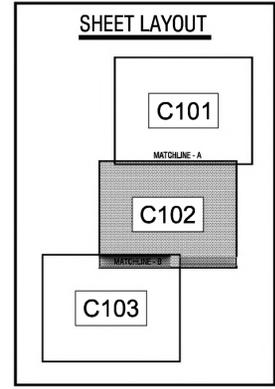
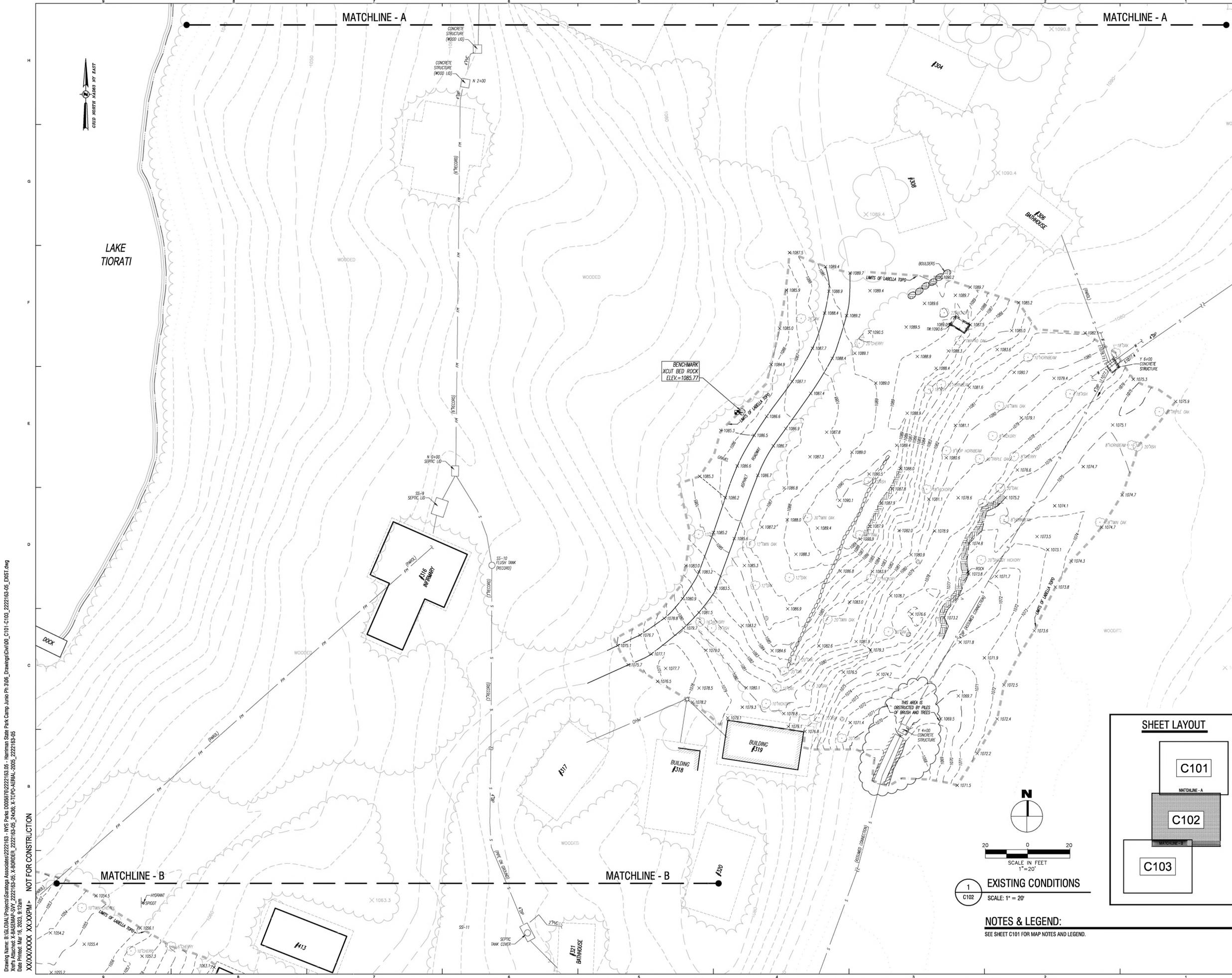


**Sheet Title:**  
 EXISTING CONDITIONS  
 BATHHOUSE #322

**Drawing Number:**  
**C102**

BID DOCUMENTS SET

Project Number: 2021-059.23  
 Sheet: of X



1 EXISTING CONDITIONS  
 SCALE: 1" = 20'

**NOTES & LEGEND:**  
 SEE SHEET C101 FOR MAP NOTES AND LEGEND.

Drawing Name: B:\GLOBAL\Projects\Saratoga Associates\2222163 - NYS Parks D005876\2222163.05 - Harriman State Park Camp Junior Ph. 3\05 Drawings\Civil\00\_C101\_C103\_2222163-05\_EXIST.dwg  
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 Executive Director: James Hall  
 Capital Facilities Mngr: Michael Tesik

**Project Title:**  
 Camp Junior - Phase 3  
 Campground Rehabilitation  
 Contract No. D005876

**Project Location:**  
 Harriman State Park  
 Tiorati Brook Road  
 Tuxedo, NY 10987

Rev No	Description	Date
1		
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Drawn By: CJS  
 Design By: N/A  
 Checked By: DHD  
 Approved By: DMS  
 Date: 03/16/2023

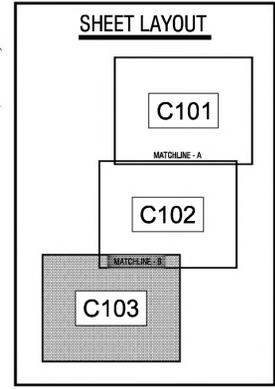
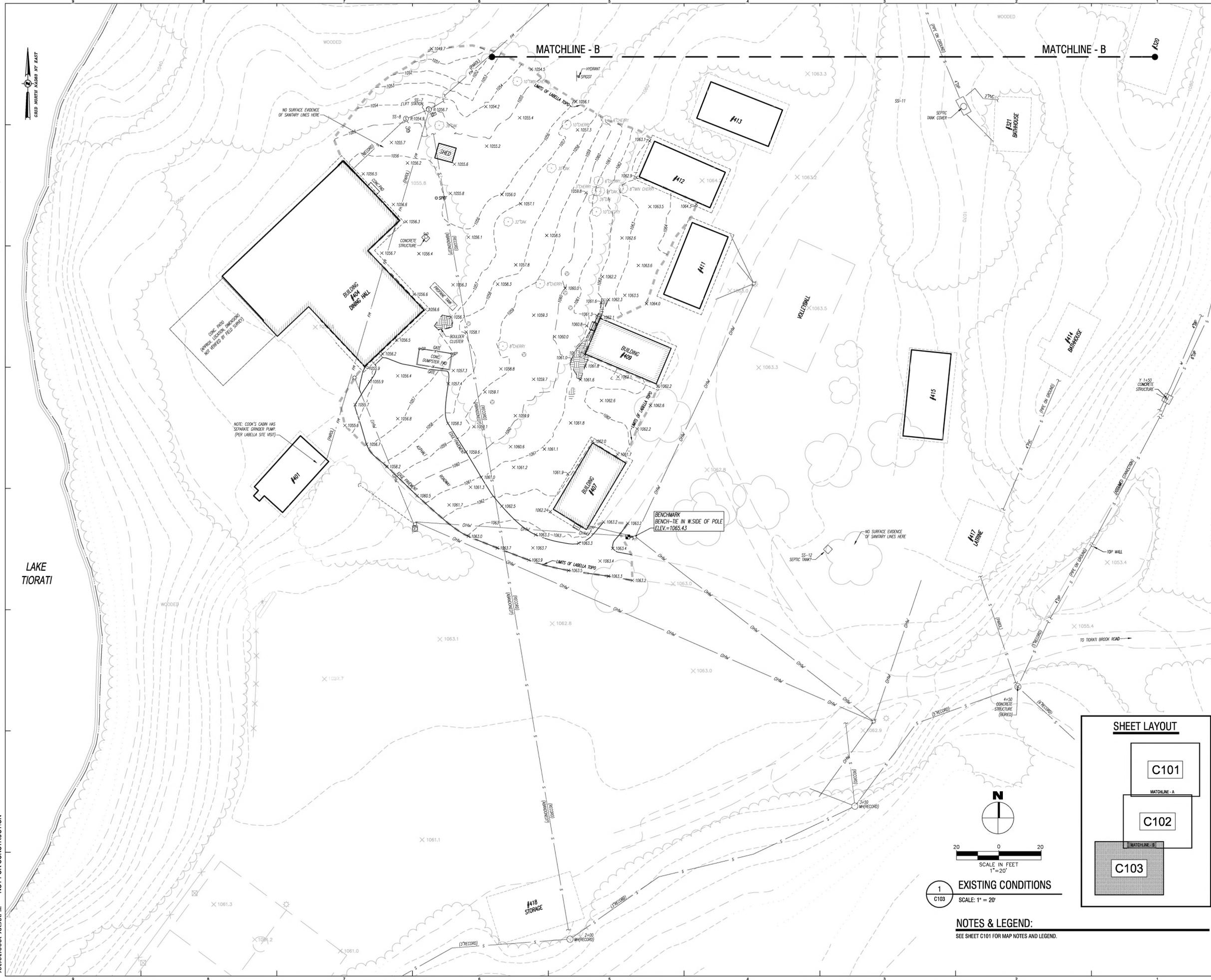


**Sheet Title:**  
 EXISTING CONDITIONS  
 BATHHOUSE #427

**Drawing Number:**  
**C103**

BID DOCUMENTS SET

Project Number: 2021-059.23  
 Sheet: of X



**1** EXISTING CONDITIONS  
 C103 SCALE: 1" = 20'

**NOTES & LEGEND:**  
 SEE SHEET C101 FOR MAP NOTES AND LEGEND.

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 Camp Junior - Phase 3  
 Campground Rehabilitation  
 Contract No. D005876

**Project Location:**  
 Harriman State Park  
 Tiorati Brook Road  
 Tuxedo, NY 10987

Rev No	Description	Date

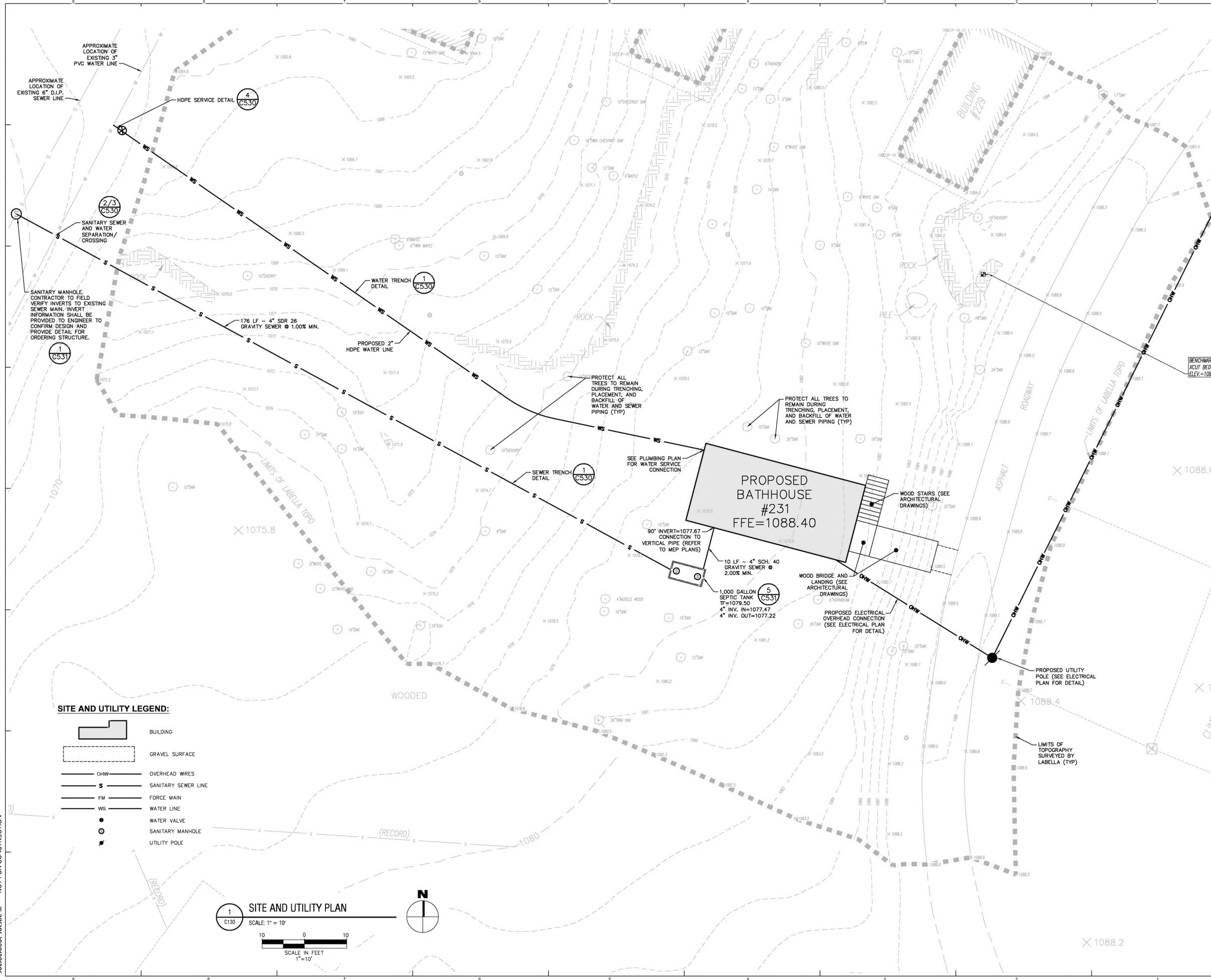
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 Design By: SMF  
 Checked By: REK  
 Approved By: DMS  
 Date: 03/31/2023

Seal and Signature

**Sheet Title:**  
 SITE AND UTILITY PLAN - BATHHOUSE #231  
 BID DOCUMENTS SET

**Drawing Number:**  
**C130**

Project Number: 2021-059.23  
 Sheet: 1 of



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**Surveyor / Structural / MEP Engineer:**  
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Executive Director: James Hall  
Capital Facilities Mngr: Michael Tesik

**Project Title:**  
Camp Junior - Phase 3  
Campground Rehabilitation  
Contract No. D005876

**Project Location:**  
Harriman State Park  
Tiorati Brook Road  
Tuxedo, NY 10987

Rev No	Description	Date

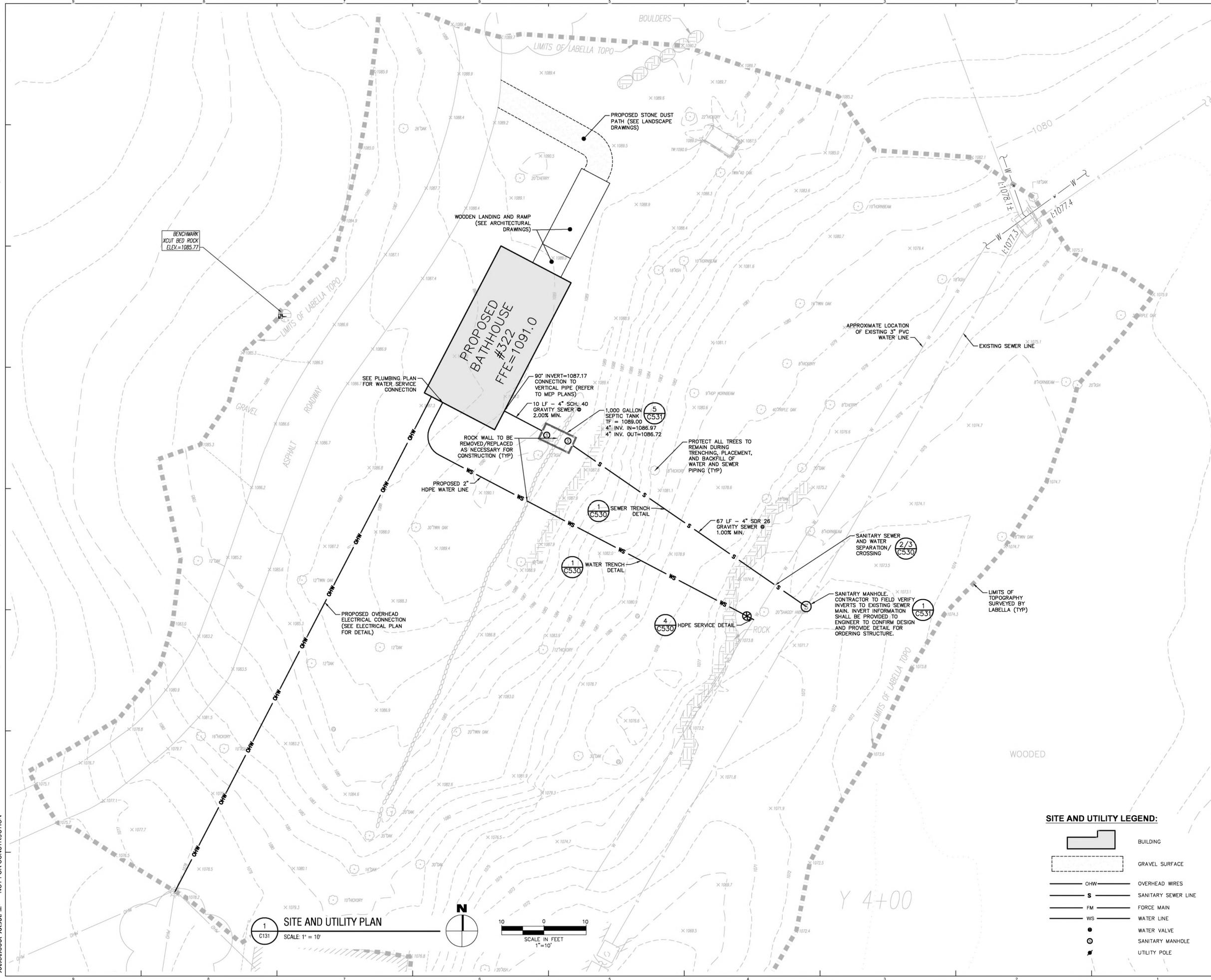
Drawn By: CAR  
Design By: SMF  
Checked By: REK  
Approved By: DMS  
Date: 03/31/2023

Seal and Signature  
ROGER E. KEATING  
REGISTERED PROFESSIONAL ENGINEER  
083455  
EXP: 12/31/2023

**Sheet Title:**  
SITE AND UTILITY PLAN -  
BATHHOUSE  
#322  
BID DOCUMENTS SET

**Drawing Number:**  
**C131**

Project Number: 2021-059.23  
Sheet: 2 of



Drawing Name: V:\sh\m\Projects\Saratoga Associates\222163\_05 - Harriman State Park Camp Junior Ph 3\05 Drawings\CAD\01 C131-132\_222163\_05\_SITE-UTIL.rvt  
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 Date Printed: Mar 29, 2023, 10:01 am  
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**SITE AND UTILITY LEGEND:**

	BUILDING
	GRAVEL SURFACE
	OVERHEAD WIRES
	SANITARY SEWER LINE
	FORCE MAIN
	WATER LINE
	WATER VALVE
	SANITARY MANHOLE
	UTILITY POLE

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 Executive Director: James Hall  
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**Project Title:**  
 Camp Junior - Phase 3  
 Campground Rehabilitation  
 Contract No. D005876

**Project Location:**  
 Harriman State Park  
 Tiorati Brook Road  
 Tuxedo, NY 10987

Rev No	Description	Date
1		
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Drawn By: CAR  
 Design By: SMF  
 Checked By: REK  
 Approved By: DMS  
 Date: 03/31/2023

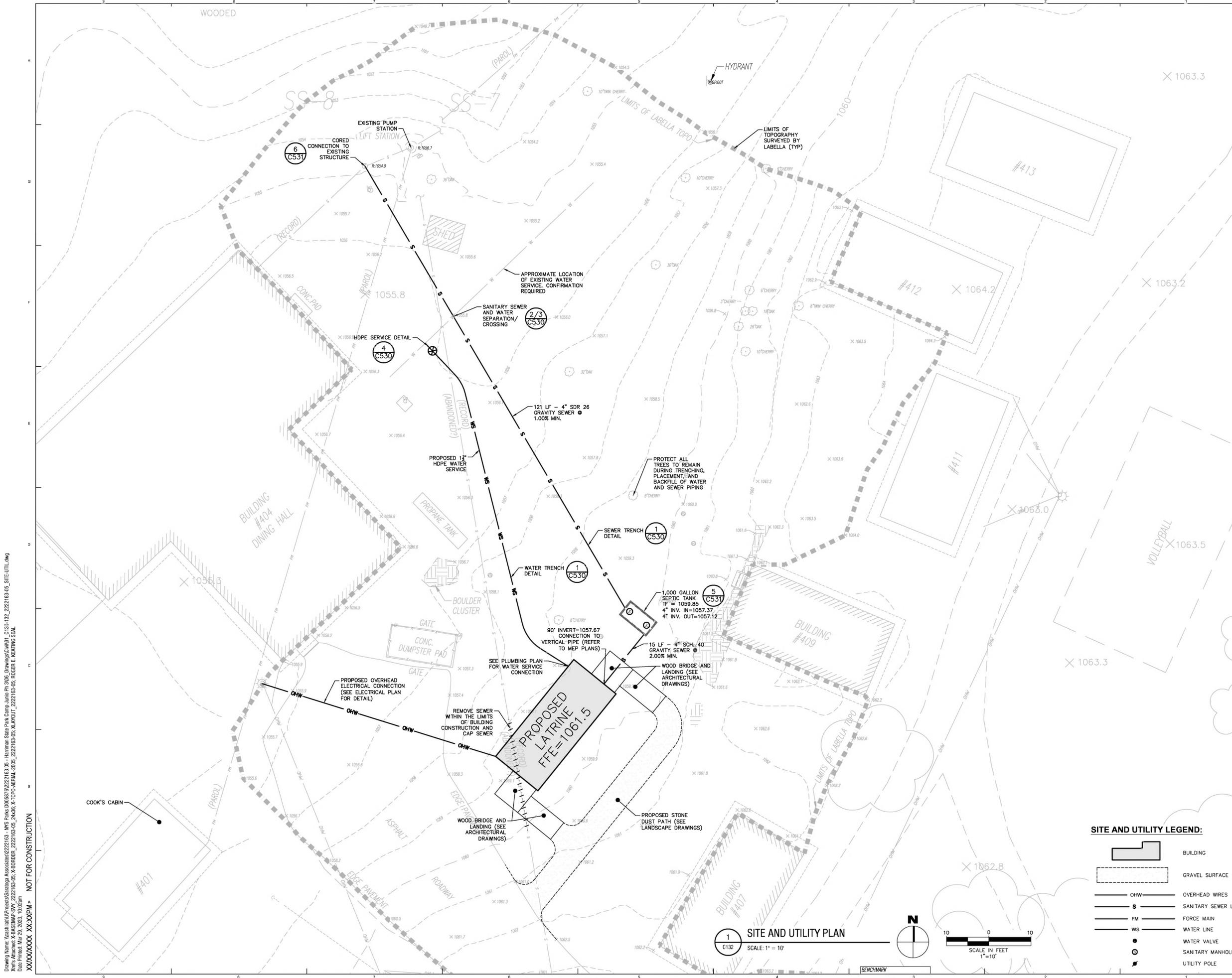


**Sheet Title:**  
 SITE AND UTILITY PLAN - LATRINE #427

**Drawing Number:**  
**C132**

BID DOCUMENTS SET

Project Number: 2021-059.23  
 Sheet: 3 of



**SITE AND UTILITY LEGEND:**

	BUILDING
	GRAVEL SURFACE
	OVERHEAD WIRES
	SANITARY SEWER LINE
	FORCE MAIN
	WATER LINE
	WATER VALVE
	SANITARY MANHOLE
	UTILITY POLE

**1 SITE AND UTILITY PLAN**  
 SCALE: 1" = 10'

10 0 10  
 SCALE IN FEET  
 1" = 10'

Drawing Name: Vashia/Projects/Saratoga Associates/222163\_05 - Harriman State Park, Camp Junior, Ph. 3/05, Drawings/Civil/01\_C132-132\_2222163\_05\_SITE-UTIL.rvt  
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 Palisades Interstate Park Commission  
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**Project Title:**  
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 Contract No. D005876

**Project Location:**  
 Harriman State Park  
 Tiorati Brook Road  
 Tuxedo, NY 10987

Rev No	Description	Date

Drawn By: CAR  
 Design By: SMF  
 Checked By: REK  
 Approved By: DMS  
 Date: 03/16/2023

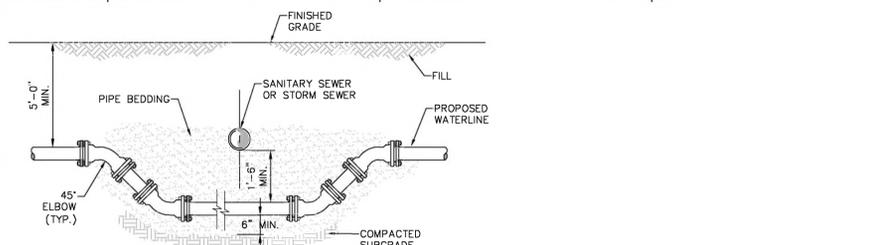
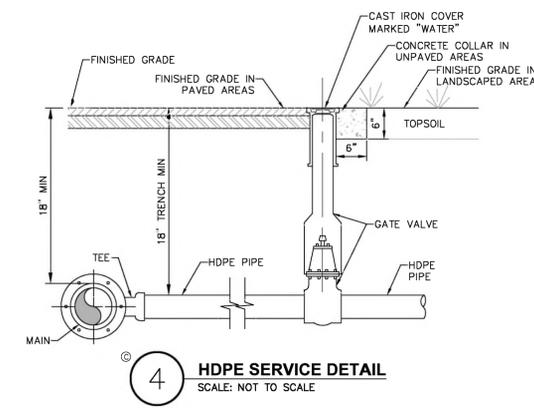
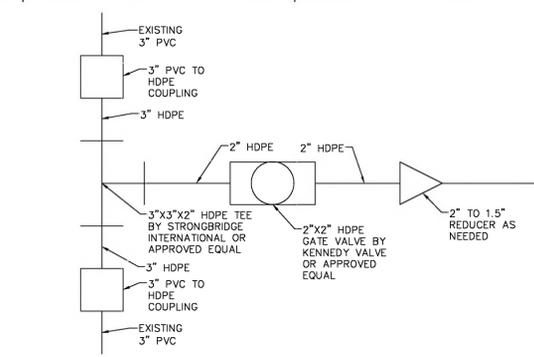
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**Sheet Title:**  
 WATER DETAILS

**Drawing Number:**  
**C530**

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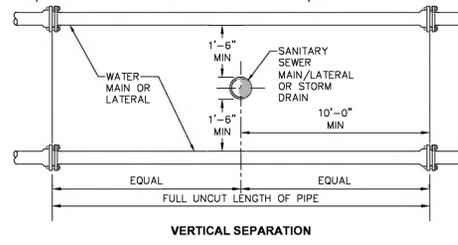
Project Number: 2021-059.23  
 Sheet: 4 of



**NOTES:**

1. WHEN THE ELEVATION OF THE SEWER CAN NOT BE VARIED TO MEET THE ABOVE REQUIREMENTS, THE WATER MAIN SHALL BE RELOCATED TO PROVIDE THIS REQUIRED SEPARATION.
2. WHEN IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS INDICATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT DUCTILE IRON PIPE OR PVC WATER WORKS GRADE PRESSURE PIPE FOR 10' EACH SIDE OF CROSSING AND SHALL BE PRESSURE TESTED TO 150psi TO ASSURE WATER TIGHTNESS.

**3 WATERLINE OFFSET DETAIL**  
 SCALE: NOT TO SCALE



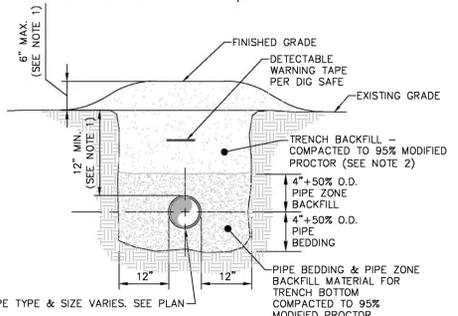
**NOTES:**

1. NO DEVIATION IN THE SEPARATION REQUIREMENTS WILL BE PERMITTED WITHOUT THE EXPRESS APPROVAL OF THE NYS HEALTH DEPARTMENT. OFFSETTING OF WATERLINE SHALL BE REQUIRED WHERE SEPARATION DISTANCES CANNOT BE MAINTAINED.
2. WHEN IT IS IMPOSSIBLE TO OBTAIN VERTICAL SEPARATION AS INDICATED ABOVE, BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE CONSTRUCTED OF MECHANICAL JOINT, DUCTILE IRON PIPE OR PVC WATER WORKS GRADE PRESSURE PIPE FOR 10' EACH SIDE OF CROSSING AND SHALL BE PRESSURE TESTED TO 150psi TO ASSURE WATER TIGHTNESS.

**2 SANITARY/STORM SEWER AND WATERMAIN SEPARATION DETAIL**  
 SCALE: NOT TO SCALE

**WATER MAIN NOTES:**

1. THE WATER LINE MAY BE DEFLECTED WITHIN PIPE SPECIFICATIONS OR LAID DEEPER IN AREAS WHERE CROSSINGS WITH THE SANITARY LINE OCCUR, TO ACHIEVE THE REQUIRED 1.5' VERTICAL SEPARATION DISTANCE. (SEE WATERLINE OFFSET DETAIL FOR FURTHER INFORMATION).
2. WATER MAINS SHALL BE TESTED PER AWWA SECTION C 600 OR C605.
3. THE WATER MAIN IS TO BE INSTALLED AT A CONTINUOUS GRADE WITH NO ABRUPT HIGH OR LOW POINTS.



**NOTES:**

1. MINIMUM COVER OVER TOP OF PIPE SHALL BE 18". IF 18" OF COVER CAN NOT BE ACHIEVED THROUGH EXCAVATION DUE TO THE PRESENCE OF ROCK, THE PIPE SHALL BE PLACED WITH 12" OF COVER TO EXISTING GRADE AND SHALL BE COVERED WITH AN ADDITIONAL 6" OF TRENCH BACKFILL MATERIAL TO OBTAIN 18" OF TOTAL COVER OVER TOP OF THE PIPE.
2. PIPE BEDDING & PIPE ZONE BACKFILL SHALL BE AN IMPORTED NATURAL RUN-OF-BANK (R.O.B.) SAND OR A MIXTURE OF CRUSHED STONE AND GRAVEL, FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. BEDDING GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	% PASSING
3/4"	100%
NO. 40	0-70%
NO. 200	0-10%

3. TRENCH BACKFILL SHALL BE A NATURAL RUN-OF-BANK (R.O.B.) OR PROCESSED GRAVEL, OR EXCAVATED MATERIAL FREE OF SOFT, NONDURABLE PARTICLES, ORGANIC MATERIALS AND ELONGATED PARTICLES, AND SHALL BE WELL GRADED FROM FINE TO COARSE PARTICLES. TRENCH BACKFILL GRADATIONS SHALL BE APPROVED BY THE ENGINEER AND SHALL MEET THE FOLLOWING GRADATION REQUIREMENTS:

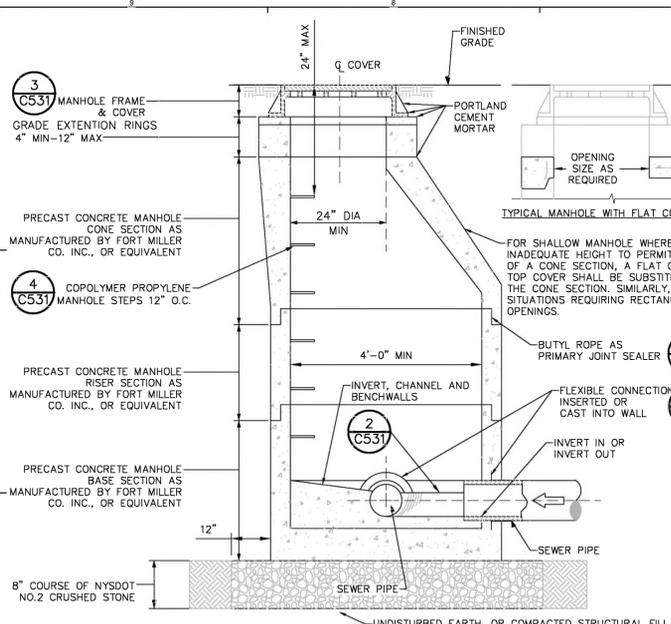
SIEVE DESIGNATION	% PASSING
4"	100%
NO. 40	0-70%
NO. 200	0-10%

IN NON-TRAFFIC UNPAVED AREAS TRENCH BACKFILL CAN BE MATERIALS EXCAVATED FROM THE TRENCH AS APPROVED BY THE ENGINEER AND COMPACTED TO 90% MODIFIED PROCTOR.

4. INSTALL CONTINUOUS DETECTABLE MARKING TAPE DURING BACKFILLING OF TRENCH FOR UNDERGROUND PIPING. LOCATE TAPE BELOW FINISHED GRADE, DIRECTLY OVER PIPING.

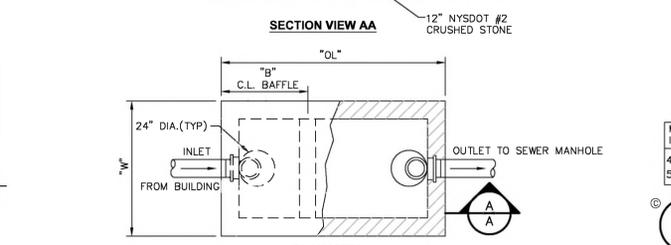
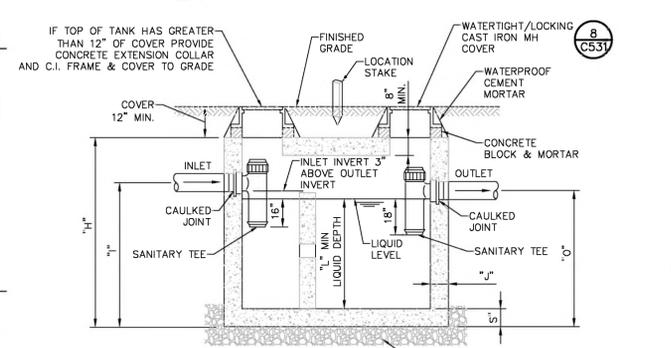
5. TRENCHING SHALL BE IMPLEMENTED IN ACCORDANCE WITH O.S.H.A. STANDARDS.

**1 PIPE TRENCH DETAIL (TYPICAL)**  
 SCALE: NOT TO SCALE



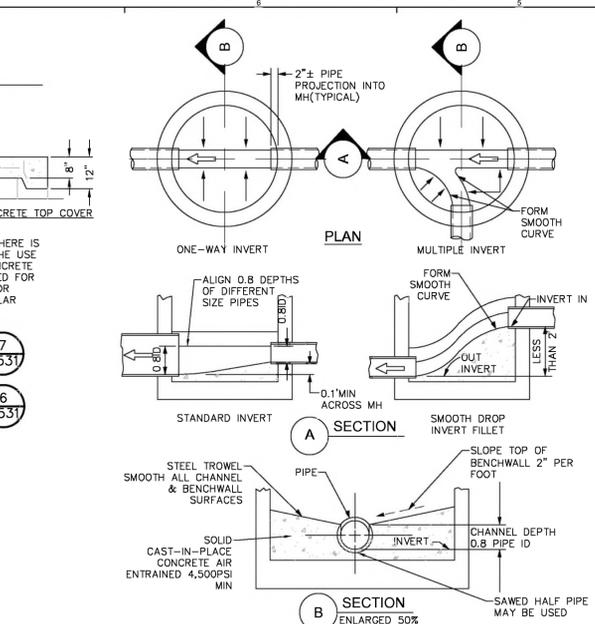
- NOTES:**
- USE ONLY WET-CAST UNITS. DRY-CAST NOT ACCEPTABLE.
  - INVERT SHALL BE FILLETED.
  - REINFORCEMENT FOR MANHOLE COMPONENTS SHALL BE DESIGNED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. STRUCTURE SHALL BE DESIGNED FOR HS20-44 VEHICULAR LOADING PLUS 25% IMPACT.
  - CONCRETE TO TEST 4,500 PSI AT 28 DAYS IN CONFORMANCE WITH A.S.T.M. C-478.
  - BENCH SHALL BE BUILT FOR FLOW BETWEEN INLET AND OUTLET.
  - EACH MANHOLE EXTERIOR SHALL RECEIVE TWO BITUMINOUS COATS.

**1 PRECAST CONCRETE MANHOLE**  
SCALE: NOT TO SCALE

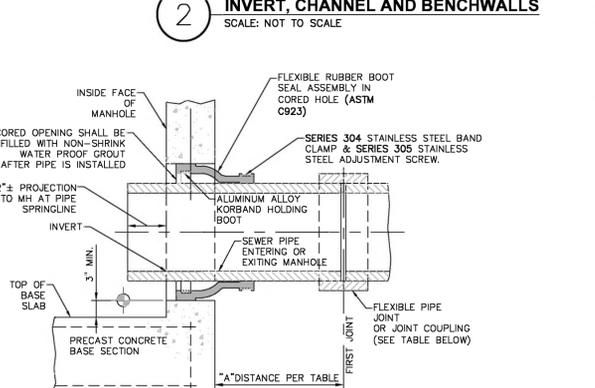


- NOTE:**
- SEPTIC TANKS SHALL BE AS MANUFACTURED BY THE FORT MILLER CO. OR APPROVED EQUIVALENT.
  - DIMENSIONS SHOWN ARE PER STRUCTURES MANUFACTURED BY FORT MILLER CO.
- | SIZE GALLONS | OVERALL HEIGHT "H" | OVERALL WIDTH "W" | OVERALL LENGTH "OL" | SLAB THICKNESS "S" | WALL THICKNESS "W" | LIQUID LEVEL "L" | INLET HEIGHT "I" | OUTLET HEIGHT "O" | BAFFLE "B" |
|--------------|--------------------|-------------------|---------------------|--------------------|--------------------|------------------|------------------|-------------------|------------|
| 1000         | 6'-10"             | 4'-3"             | 8'-2"               | 5"                 | 4"                 | 5'-0"            | 5'-10"           | 5'-7"             | -          |

**5 CONCRETE SEPTIC TANK**  
SCALE: NOT TO SCALE



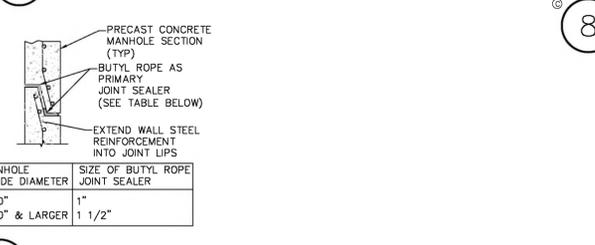
**2 INVERT, CHANNEL AND BENCHWALLS**  
SCALE: NOT TO SCALE



**FLEXIBLE JOINT REQUIREMENTS**

SEWER PIPE TYPE	FLEXIBLE JOINT TYPE IN & OUT	"A" DISTANCE (FEET)
DUCTILE IRON	STD RUBBER GASKET PIPE JOINT ONLY	10' MAX
PVC	STD RUBBER GASKET PIPE JOINT ONLY	3' MAX

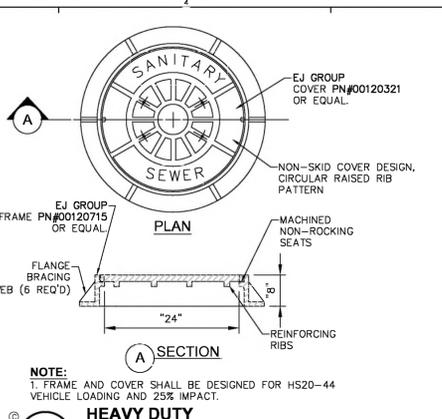
**NOTE:** REFERENCE MANHOLE DETAIL(S) FOR REQUIRED INVERT CHANNEL CONFIGURATION.



**7 MANHOLE JOINT**  
SCALE: NOT TO SCALE

MANHOLE INSIDE DIAMETER	SIZE OF BUTYL ROPE JOINT SEALER
4'-0"	1"
5'-0" & LARGER	1 1/2"

**6 PIPE CONNECTION TO MANHOLE- PRECAST OR CORED HOLE W/ INSERTED FLEXIBLE BOOT**  
SCALE: NOT TO SCALE

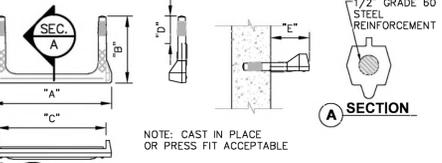


**3 HEAVY DUTY STANDARD CAST IRON MH COVER**  
SCALE: NOT TO SCALE

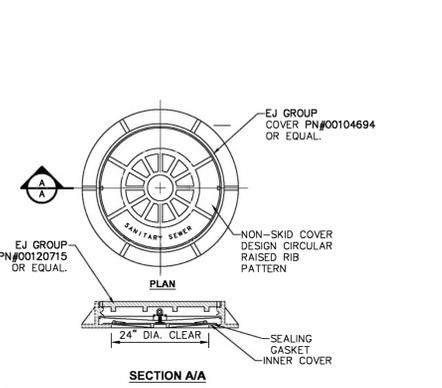
**ACCEPTABLE MANHOLE STEPS**

MANUFACTURER	PATTERN NUMBER	STEP WIDTH	"B" LEG LENGTH	"C" RUNG CLEAR	"D" EMBEDMENT	"E" RUNG CLEAR
M.A. INDUSTRIES INC*	PS2-PF	14 3/4	9 1/4	13 3/4	3 3/8	5 7/8
M.A. INDUSTRIES INC*	PS2-PFS	14 3/4	8 1/4	13 3/4	3 3/8	4 7/8

\* OR EQUIVALENT



**4 COPOLYMER POLYPROPYLENE MH STEP**  
SCALE: NOT TO SCALE



**8 WATERTIGHT/LOCKING CAST IRON MH COVER**  
SCALE: NOT TO SCALE

**TESTING GRAVITY SEWER SYSTEM:**

- LOW PRESSURE AIR TESTING MAY BE ALLOWED IN LIEU OF EXFILTRATION TESTS ONLY, WHEN SO ALLOWED, TEST SHALL BE PERFORMED UNDER DIRECTION OF ENGINEER ACCORDING TO ASTM F1417. LOW PRESSURE AIR TEST IS A COMPARISON OF THE MEASURED TIME NECESSARY FOR ONE (1) PSIG PRESSURE DROP TO OCCUR, IF AT ALL, WITH MINIMUM ALLOWABLE TIME FOR THAT PRESSURE DROP TO OCCUR DETERMINED BY METHODS INDICATED IN ASTM F1417. IF THE ONE (1) PSIG PRESSURE DROP OCCURS FASTER THAN ALLOWABLE TIME, SECTION IS UNACCEPTABLE.
- AN AIR TEST SHALL NOT BE RUN UNTIL SECTION OF LINE TO BE TESTED HAS BEEN CLEANED OF ALL FOREIGN MATERIAL BY FLUSHING AND HAS BEEN VISUALLY INSPECTED AND APPROVED BY THE ENGINEER. CERTAIN PIPE MATERIALS PRODUCE MORE CONSISTENT RESULTS WHEN INTERIOR OF PIPE IS WETTED PRIOR TO TESTING.
- WHERE AIR-TESTING IS TO BE USED FOR LINE ACCEPTANCE, CORROBORATIVE HYDROSTATIC TESTING SHALL BE PERFORMED ON SEWER INSTALLATION OF THE SAME PIPE SIZE, MATERIAL, AND CONDITIONS OF INSTALLATION. SEWER SECTIONS WHICH INDICATE RATES OF AIR LOSS PER UNIT OF SURFACE AREA WHICH MOST NEARLY APPROXIMATE RATE FOR PIPELINE ACCEPTANCE SHOULD BE SELECTED FOR CORROBORATIVE TESTS. AT LEAST 3 SECTIONS ARE TO BE SO TESTED. THE PURPOSE OF THESE CORROBORATIVE TESTS IS TO PERMIT A REASONABLE ASSUMPTION THAT, IF THESE 3 TEST SECTIONS MEET THE HYDROSTATIC TEST, THE BALANCE OF PROJECT ALSO MEETS OR EXCEEDS THESE REQUIREMENTS. IF AIR TEST IS NOT SUPPORTED BY ACCEPTABLE CORROBORATIVE HYDROSTATIC TESTS, COMPLETE HYDRO-STATIC TESTING OF SEWER LINES SHALL BE REQUIRED.
- SEWERS SHALL BE LAID WITH STRAIGHT ALIGNMENT BETWEEN MANHOLES. STRAIGHT ALIGNMENT SHALL BE CHECKED EITHER USING A LASER BEAM OR LAMPING. TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- MANHOLES, WHICH CANNOT BE PROPERLY AIR TESTED, SHOULD BE VISUALLY INSPECTED AND LEAKAGE-TESTED USING INTERNAL OR EXTERNAL HYDROSTATIC PRESSURE. LEAKAGE TESTING SHALL COMPLY WITH REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- IN AREAS WHERE CONVENTIONAL TESTING IS IMPRACTICAL (I.E. AREAS DESIGNATED BY ENGINEER WHERE EXISTING SERVICES ARE TIED INTO NEW LINE IMMEDIATELY AND ANY BLOCKAGE COULD RESULT IN HEALTH PROBLEMS) NO LINES SHALL BE BACKFILLED UNTIL EACH PIPE SECTION AND CONNECTION IS INSPECTED AND APPROVED.
- WHERE SEWERS ARE CONSTRUCTED OF PRESSURE-RATED PIPE AND INSTALLED WITH LESS THAN 18 INCHES VERTICAL SEPARATION FROM EXISTING OR PROPOSED WATER MAINS, SEWERS SHALL BE HYDROSTATICALLY TESTED AT 150 PSI TO ASSURE WATER TIGHTNESS. HYDROSTATIC ACCEPTANCE TESTS SHALL BE CONDUCTED AS SPECIFIED FOR TESTING WATER MAINS, EXCEPT THAT TESTING MAY BE PERFORMED WITH THE PIPE SECTION PARTIALLY BACK-FILLED.
- IF THE ALLOWABLE RATE OF INFILTRATION, EXFILTRATION, OR AIR LEAKAGE IS EXCEEDED, THE CONTRACTOR SHALL LOCATE POINTS OF EXCESSIVE LEAKAGE AND SHALL PROMPTLY CORRECT, REPAIR, AND BRING SYSTEM UP TO THE STANDARD. COSTS OF ALL SUCH REPAIRS AND CORRECTIVE MEASURES, INCLUDING COSTS OF REPEATED TESTS, SHALL BE BORN BY CONTRACTOR. THE SEWER LINE SECTION (INCLUDING MANHOLES AND BUILDING SERVICES) UNDER TEST SHALL NOT BE ACCEPTED UNTIL THESE TEST CRITERIA ARE MET.
- SEPTIC TANK SHALL BE TESTED FOR LEAKAGE USING THE HYDROSTATIC TEST METHOD IN ACCORDANCE WITH ASTM C1227. ENGINEER TO WITNESS LEAKAGE TEST.

**New York State Parks, Recreation and Historic Preservation**  
Governor Kathy Hochul | Commissioner Erik Kulesse  
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21 CONGRESS STREET, SUITE 201  
SARATOGA SPRINGS, NEW YORK 12866  
Landscape Architects, Architects, Engineers, and Planners, P.C.

**Surveyor / Structural / MEP Engineer:** LABELLA ASSOCIATES  
4 BRITISH AMERICAN BOULEVARD  
LATHAM, NEW YORK 12110  
Powered by geotechnical. 2222163.05

**NYS OPRHP Palisades Region**  
Palisades Interstate Park Commission  
Bear Mountain, NY 10911  
(845) 786-2701  
Executive Director: James Hall  
Capital Facilities Mngr: Michael Tesik

**Project Title:**  
Camp Junior - Phase 3  
Campground Rehabilitation  
Contract No. D005876

**Project Location:**  
Harriman State Park  
Tiorati Brook Road  
Tuxedo, NY 10987

**REVISIONS**

Rev No	Description	Date

Drawn By: CAR  
Design By: SMF  
Checked By: REK  
Approved By: DMS  
Date: 03/16/2023

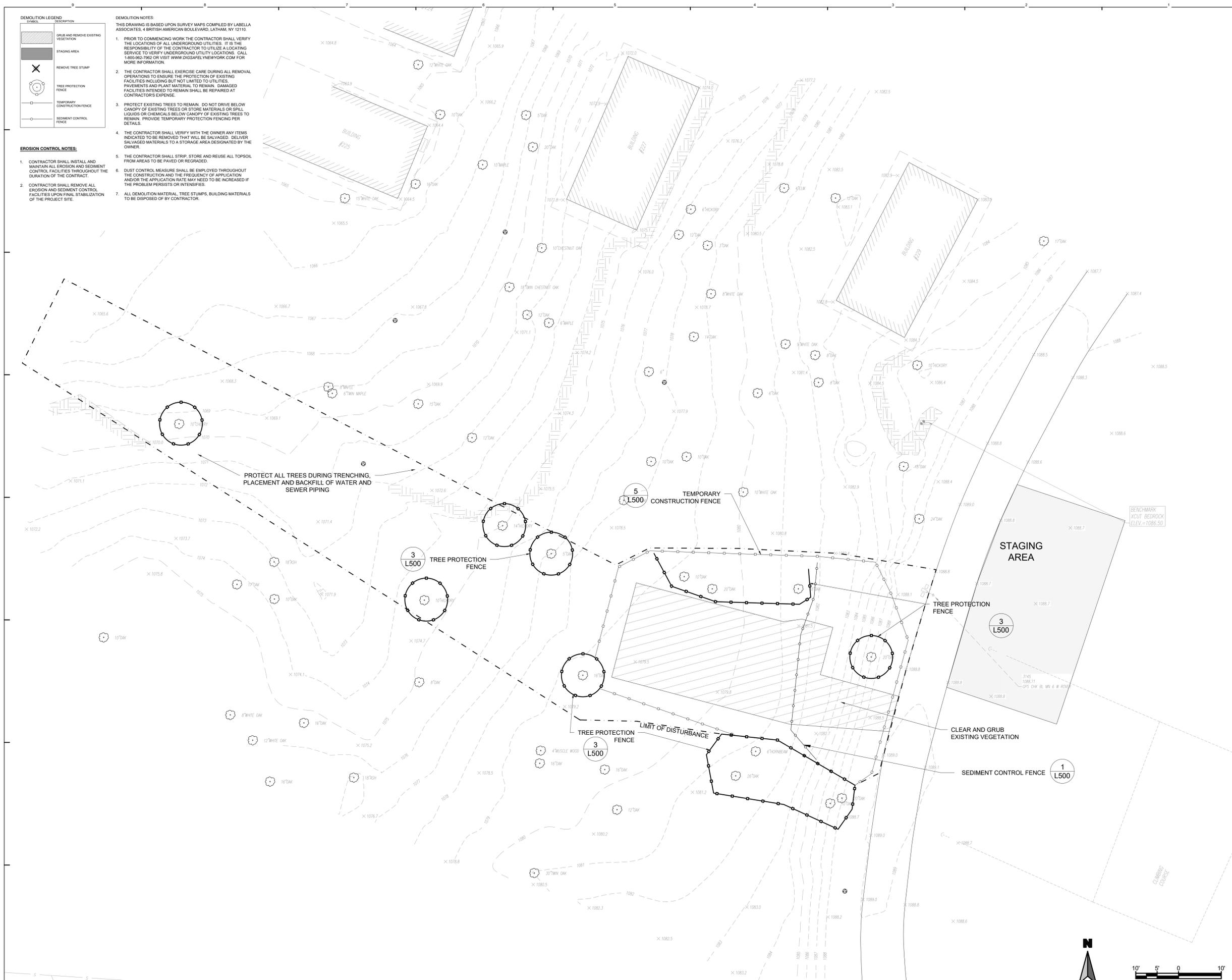
Seal and Signature  
Professional Engineer  
EXP: 12/31/2023

**MANHOLES AND OTHER BELOW GRADE STRUCTURES:**

- STRUCTURAL DESIGN FOR MANHOLES AND OTHER BELOW-GRADE PRECAST CONCRETE STRUCTURES:
  - NON-TRAFFIC LOADS: BELOW GRADE PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO WITHSTAND LOADS IMPOSED BY STRUCTURE WEIGHT, EARTH COVER, LATERAL PRESSURE FROM EARTH AND GROUND WATER, AND LIVE LOADS SUCH AS PEDESTRIAN TRAFFIC OR MACHINERY ON OR ABOVE THE STRUCTURE; AND
  - TRAFFIC LOADS: BELOW GRADE PRECAST CONCRETE STRUCTURES SHALL BE DESIGNED TO ALSO WITHSTAND TRAFFIC LOADS CREATED BY AN HS20-44 TRUCK PLUS 25% IMPACT AS DEFINED IN THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) DESIGN STANDARDS.
- MATERIAL WHICH SHALL BE UTILIZED IN THE CONSTRUCTION OF PRECAST CONCRETE STRUCTURES:
  - CEMENT: ASTM C-150, TYPES I, II, III, IV
  - SAND: NYSDOT STD. SPEC. SECTION NO. 703-0 CONCRETE SAND
  - STONE: NYSDOT STD. SPEC. SECTION NO. 703-02 COARSE AGGREGATE
  - STEEL BAR REINFORCEMENT: ASTM A615, GRADE 60
  - WIRE MESH REINFORCEMENT: ASTM A185 PLAIN
  - CONCRETE STRENGTH (28 DAY): 4,500 PSI (F'c)
  - ENTRAINED AIR: 5% MIN.
- ALL CASTINGS (FRAMES AND COVERS, FRAMES AND GRATES, ETC.) FOR USE IN CONJUNCTION WITH MANHOLES AND OTHER BELOW GRADE STRUCTURES SHALL BE MANUFACTURED FROM GRAY IRON OR DUCTILE IRON. GRAY IRON SHALL CONFORM WITH ASTM A 48, CLASS 30B AND DUCTILE IRON SHALL CONFORM WITH ASTM A 536 AND BE OF A GRADE APPROPRIATE TO ITS INTENDED USE.
- ALL ASTM REFERENCES SHALL BE FOR THE LATEST ACTIVE STANDARD.

**Sheet Title:** SEWER DETAILS  
**Drawing Number:** C531  
BID DOCUMENTS SET  
Project Number: 2021-059.23  
Sheet: 5 of

Drawing Name: Vashila\Projects\Saratoga Associates\222163 - NYS Parks - Harriman State Park Camp Junior Ph. 3\05\_Drawings\Civil\01\_C530\_222163\_05\_DET.dwg  
 Xref's Attached: X-BORDER, 222163-05\_2468; ROGER E. KEATING SEAL  
 Date Printed: Mar 16, 2023, 4:34pm  
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**DEMOLITION LEGEND**

[Hatched Box]	GRUB AND REMOVE EXISTING VEGETATION
[Solid Grey Box]	STAGING AREA
[Circle with X]	REMOVE TREE STUMP
[Circle with Dashed Line]	TREE PROTECTION FENCE
[Dashed Line]	TEMPORARY CONSTRUCTION FENCE
[Dashed Line]	SEDIMENT CONTROL FENCE

- DEMOLITION NOTES:**  
THIS DRAWING IS BASED UPON SURVEY MAPS COMPILED BY LABELLA ASSOCIATES, 4 BRITISH AMERICAN BOULEVARD, LATHAM, NY 12110.
- PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE A LOCATING SERVICE TO VERIFY UNDERGROUND UTILITY LOCATIONS. CALL 1-800-955-7262 OR VISIT WWW.DIGSAFE.NY.GOV FOR MORE INFORMATION.
  - THE CONTRACTOR SHALL EXERCISE CARE DURING ALL REMOVAL OPERATIONS TO ENSURE THE PROTECTION OF EXISTING FACILITIES INCLUDING BUT NOT LIMITED TO UTILITIES, PAVEMENTS AND PLANT MATERIAL TO REMAIN. DAMAGED FACILITIES INTENDED TO REMAIN SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
  - PROTECT EXISTING TREES TO REMAIN. DO NOT DRIVE BELOW CANOPY OF EXISTING TREES OR STORE MATERIALS OR SPILL LIQUIDS OR CHEMICALS BELOW CANOPY OF EXISTING TREES TO REMAIN. PROVIDE TEMPORARY PROTECTION FENCING PER DETAILS.
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  - THE CONTRACTOR SHALL STRIP, STORE AND REUSE ALL TOPSOIL FROM AREAS TO BE PAVED OR GRADED.
  - DUST CONTROL MEASURE SHALL BE EMPLOYED THROUGHOUT THE CONSTRUCTION AND THE FREQUENCY OF APPLICATION AND/OR THE APPLICATION RATE MAY NEED TO BE INCREASED IF THE PROBLEM PERSISTS OR INTENSIFIES.
  - ALL DEMOLITION MATERIAL, TREE STUMPS, BUILDING MATERIALS TO BE DISPOSED OF BY CONTRACTOR.

- EROSION CONTROL NOTES:**
- CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL FACILITIES THROUGHOUT THE DURATION OF THE CONTRACT.
  - CONTRACTOR SHALL REMOVE ALL EROSION AND SEDIMENT CONTROL FACILITIES UPON FINAL STABILIZATION OF THE PROJECT SITE.

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**New York State Parks, Recreation and Historic Preservation**  
Governor Kathy Hochul Commissioner Erik Kulesseid

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**Architect:**  
Saratoga Associates  
21 Congress Street, Suite 201  
Saratoga Springs, NY 12866

**SARATOGA ASSOCIATES**  
Landscape Architects, Architects, Engineers, and Planners, P.C.

**Surveyor/Structural/MEP Engineer:**  
LaBella Associates  
105 N. Tioga Street, Suite 200  
Ithaca, NY 14850  
Certificate of Authorization Number:  
Professional Engineering: 912831  
Land Surveying: 017976  
Geological: 018700

**LaBella**  
REGISTERED PROFESSIONAL ENGINEER

**Palisades Region**  
Palisades Interstate Park Commission  
Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI - PHASE 3

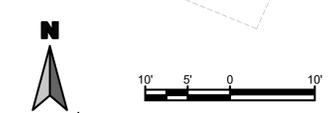
**Project Location:**  
HARRIMAN STATE PARK

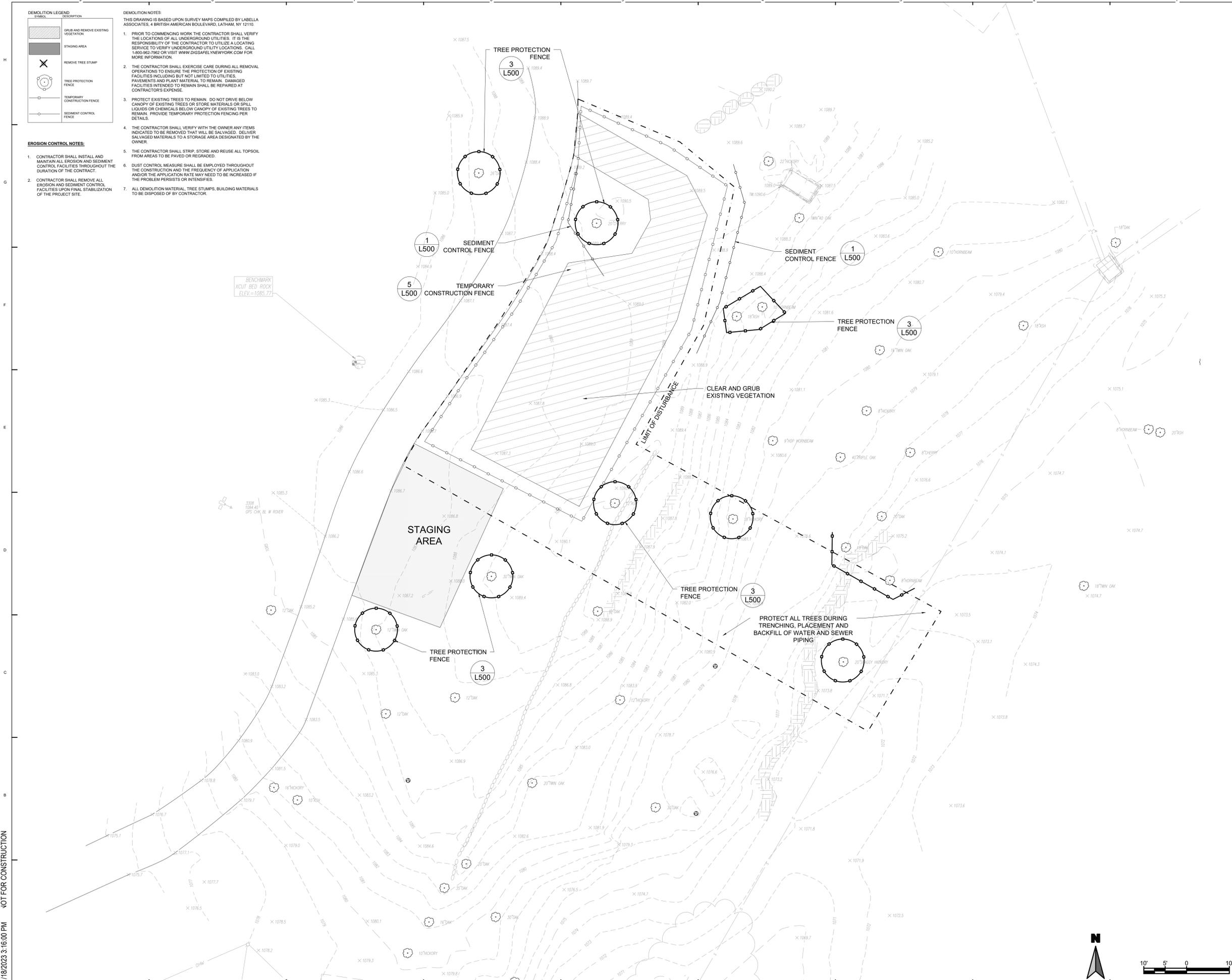
**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By: <b>APY, JMM</b> Design By: <b>APY, JMM</b> Checked By: <b>APY</b> Approved By: <b>DFM</b> Date: <b>3/16/23</b>	Seal and Signature 
<b>Sheet Title:</b> DEMOLITION PLAN BATHHOUSE #231 <b>Bid Documents Set</b> Project Number: <b>21059.23</b>	
<b>Drawing Number:</b> <b>L-200</b>	<b>Sheet:</b>





**DEMOLITION LEGEND**

SYMBOL	DESCRIPTION
[Hatched Box]	GRUB AND REMOVE EXISTING VEGETATION
[Grey Box]	STAGING AREA
[X]	REMOVE TREE STUMP
[Circle with X]	TREE PROTECTION FENCE
[Dashed Line]	TEMPORARY CONSTRUCTION FENCE
[Solid Line]	SEDIMENT CONTROL FENCE

- DEMOLITION NOTES:**  
THIS DRAWING IS BASED UPON SURVEY MAPS COMPILED BY LABELLA ASSOCIATES, 4 BRITISH AMERICAN BOULEVARD, LATHAM, NY 12110.
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  - THE CONTRACTOR SHALL STRIP, STORE AND REUSE ALL TOPSOIL FROM AREAS TO BE PAVED OR REGRADED.
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  - ALL DEMOLITION MATERIAL, TREE STUMPS, BUILDING MATERIALS TO BE DISPOSED OF BY CONTRACTOR.

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**New York State Parks, Recreation and Historic Preservation**  
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REGISTERED PROFESSIONAL ENGINEER

**Palisades Region**  
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Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

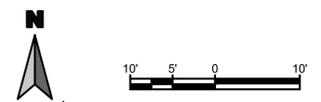
**Key Plan**

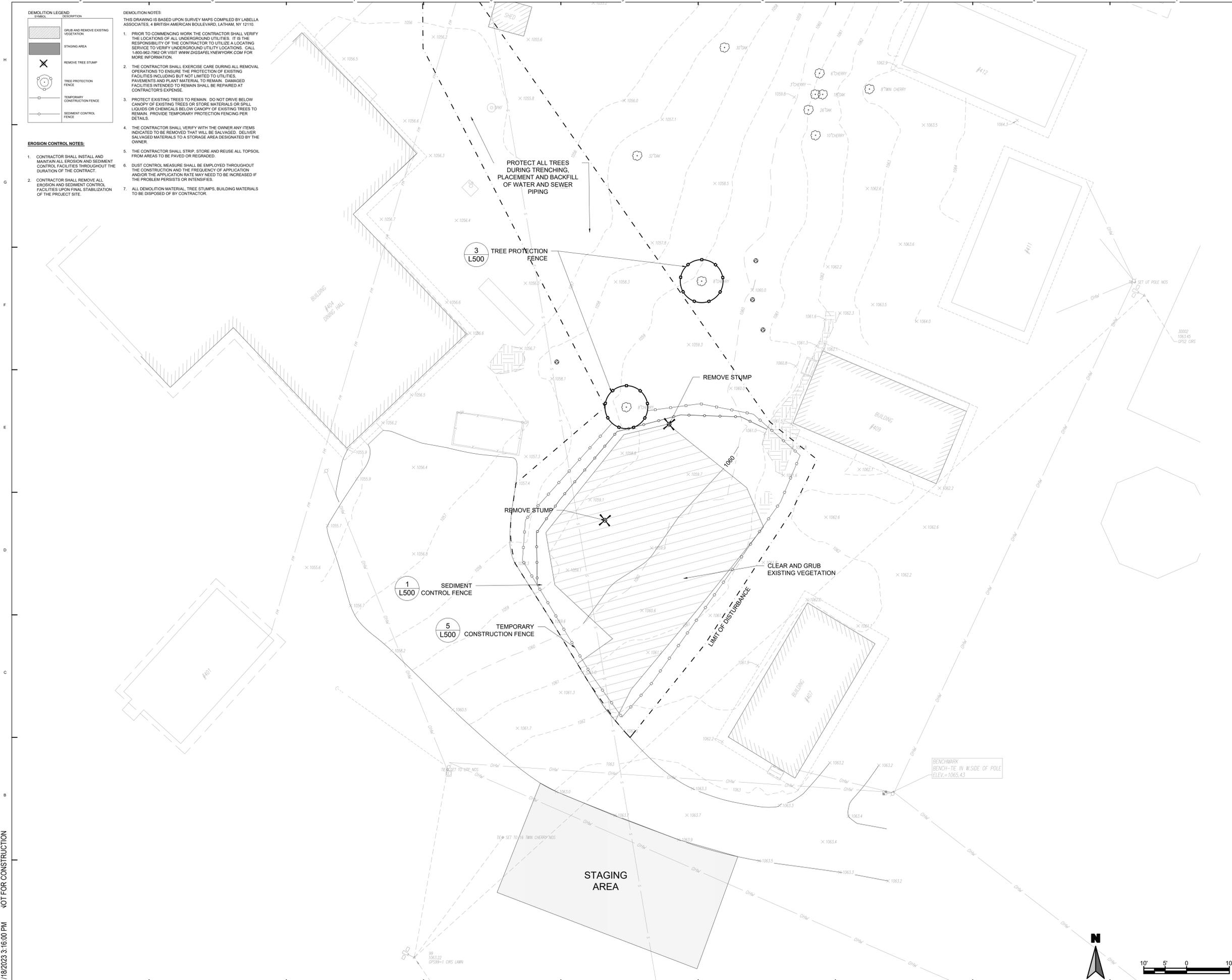
**REVISIONS**

Rev No	Description	Date

Drawn By: <b>APY, JMM</b> Design By: <b>APY, JMM</b> Checked By: <b>APY</b> Approved By: <b>DFM</b> Date: <b>3/16/23</b>	Seal and Signature 
<b>Sheet Title:</b> DEMOLITION PLAN BATHHOUSE #322 Bid Documents Set Project Number: <b>21059.23</b>	<b>Drawing Number:</b> <b>L-201</b> Sheet:

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**DEMOLITION LEGEND**

SYMBOL	DESCRIPTION
[Hatched Box]	GRUB AND REMOVE EXISTING VEGETATION
[Dotted Box]	STAGING AREA
[X]	REMOVE TREE STUMP
[Circle with X]	TREE PROTECTION FENCE
[Dashed Line]	TEMPORARY CONSTRUCTION FENCE
[Solid Line]	SEDIMENT CONTROL FENCE

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  - ALL DEMOLITION MATERIAL, TREE STUMPS, BUILDING MATERIALS TO BE DISPOSED OF BY CONTRACTOR.

- EROSION CONTROL NOTES:**
- CONTRACTOR SHALL INSTALL AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL FACILITIES THROUGHOUT THE DURATION OF THE CONTRACT.
  - CONTRACTOR SHALL REMOVE ALL EROSION AND SEDIMENT CONTROL FACILITIES UPON FINAL STABILIZATION OF THE PROJECT SITE.

**New York State Parks, Recreation and Historic Preservation**  
Governor Kathy Hochul Commissioner Erik Kulesseid

**Architect:**  
Saratoga Associates  
21 Congress Street, Suite 201  
Saratoga Springs, NY 12866

**Surveyor/Structural/MEP Engineer:**  
LaBella Associates  
105 N. Tioga Street, Suite 200  
Ithaca, NY 14850  
Certificate of Authorization Number:  
Professional Engineering: 018281  
Land Surveying: 017976  
Geological: 018720

**SARATOGA ASSOCIATES**  
Landscape Architects, Architects, Engineers, and Planners, P.C.

**LaBella**  
REGISTERED PROFESSIONAL ENGINEER

**Palisades Region**  
Palisades Interstate Park Commission  
Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

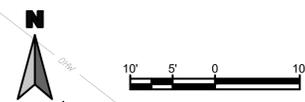
**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By: <b>APY, JMM</b> Design By: <b>APY, JMM</b> Checked By: <b>APY</b> Approved By: <b>DFM</b> Date: <b>3/16/23</b>	Seal and Signature 
<b>Sheet Title:</b> DEMOLITION PLAN LATRINE #427  <b>Bid Documents Set</b> Project Number: <b>21059.23</b>	Drawing Number:  <b>L-202</b>  Sheet:

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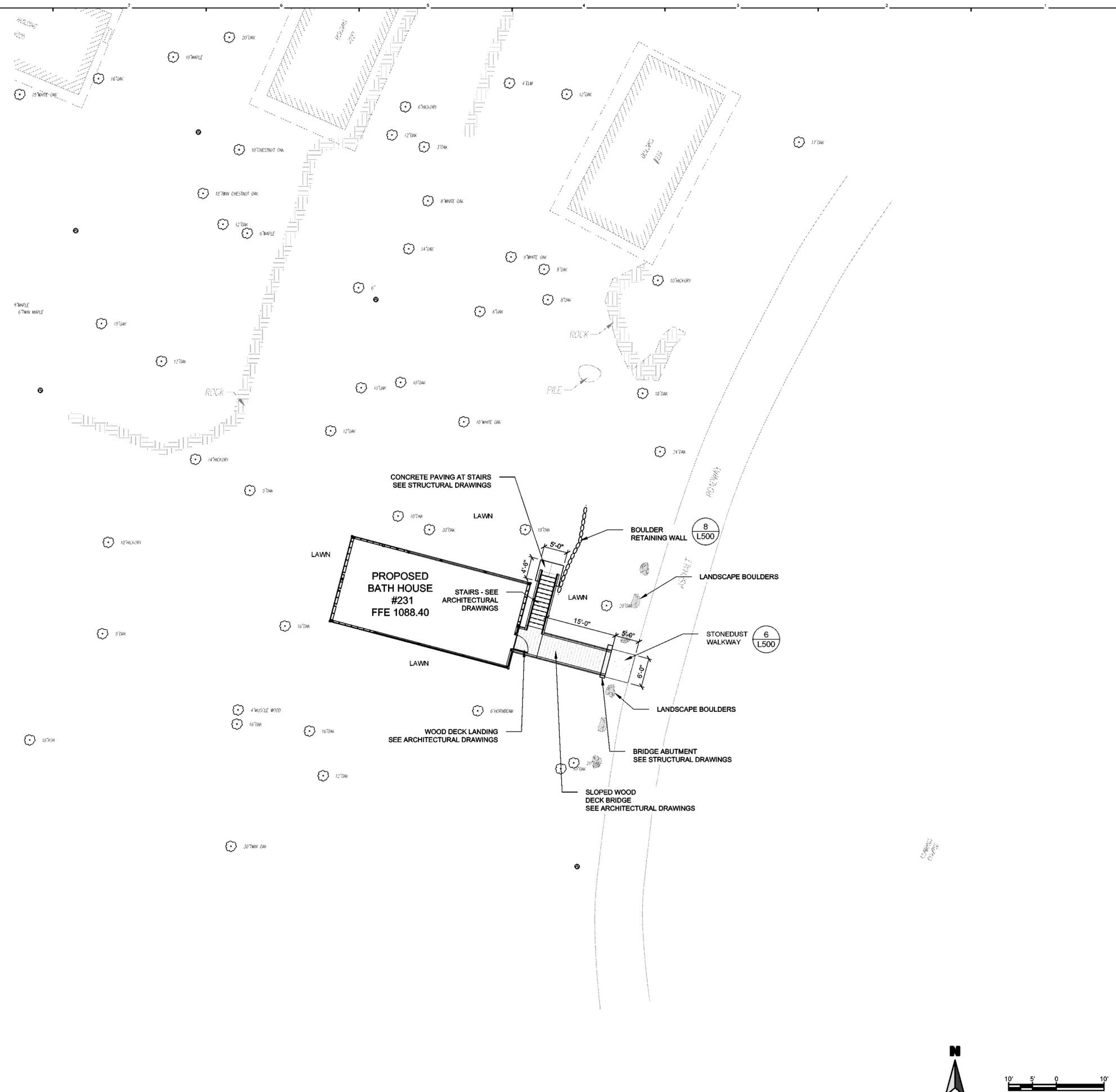


**LAYOUT LEGEND**

SYMBOL	DESCRIPTION
	CONCRETE PAVEMENT PEDESTRIAN TRAFFIC EJ = EXPANSION JOINT
	STONE DUST PAVEMENT
	WOOD DECK WALKWAY
	LANDSCAPE BOULDERS

**LAYOUT NOTES**

- PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE A LOCATING SERVICE TO VERIFY UNDERGROUND UTILITY LOCATIONS.
- THE CONTRACTOR SHALL STAKE OUT ALL WORK IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION AND NOTIFY THE OWNERS REPRESENTATIVE OF ANY DISCREPANCIES.
- ALL DIMENSIONS SHALL BE FROM THE FACE OF EDGING, CURBS, OR WALLS UNLESS OTHERWISE NOTED.
- ALL NEW PAVEMENTS SHALL MEET EXISTING PAVEMENTS WITH A SMOOTH TRANSITION AND FLUSH JOINT.
- THE CONTRACTOR SHALL PROVIDE A MAXIMUM 1.5% CROSS SLOPE ON ALL WALKS, CONFORMING TO ADA REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE WARNING CONES AND BARRICADES AS REQUIRED TO PROTECT THE PUBLIC FROM CONSTRUCTION OPERATIONS.
- SUCCESSFUL LOW BIDDER WILL BE PROVIDED A CAD FILE FOR LAYOUT PURPOSES.



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**New York State  
Parks, Recreation and  
Historic Preservation**

Governor Kathy Hochul Commissioner Erik Kulesseid

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**SARATOGA ASSOCIATES**  
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Ithaca, NY 14850  
Certificate of Authorization Number:  
Professional Engineering: 018281  
Land Surveying: 017978  
Geological: 018750

**LaBella**  
INCORPORATED

---

**Palisades Region**  
Palisades Interstate Park Commission  
Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

---

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

---

**Project Location:**  
HARRIMAN STATE PARK

---

**Key Plan**

---

REVISIONS		
Rev No	Description	Date

---

Drawn By: <b>APY, JMM</b>	Seal and Signature 
Design By: <b>APY, JMM</b>	
Checked By: <b>APY</b>	
Approved By: <b>DFM</b>	
Date: <b>3/16/23</b>	
Sheet Title: <b>LAYOUT PLAN BATHHOUSE #231</b>	Drawing Number: <b>L-300</b>
Bid Documents Set	
Project Number: <b>21059.23</b>	Sheet:

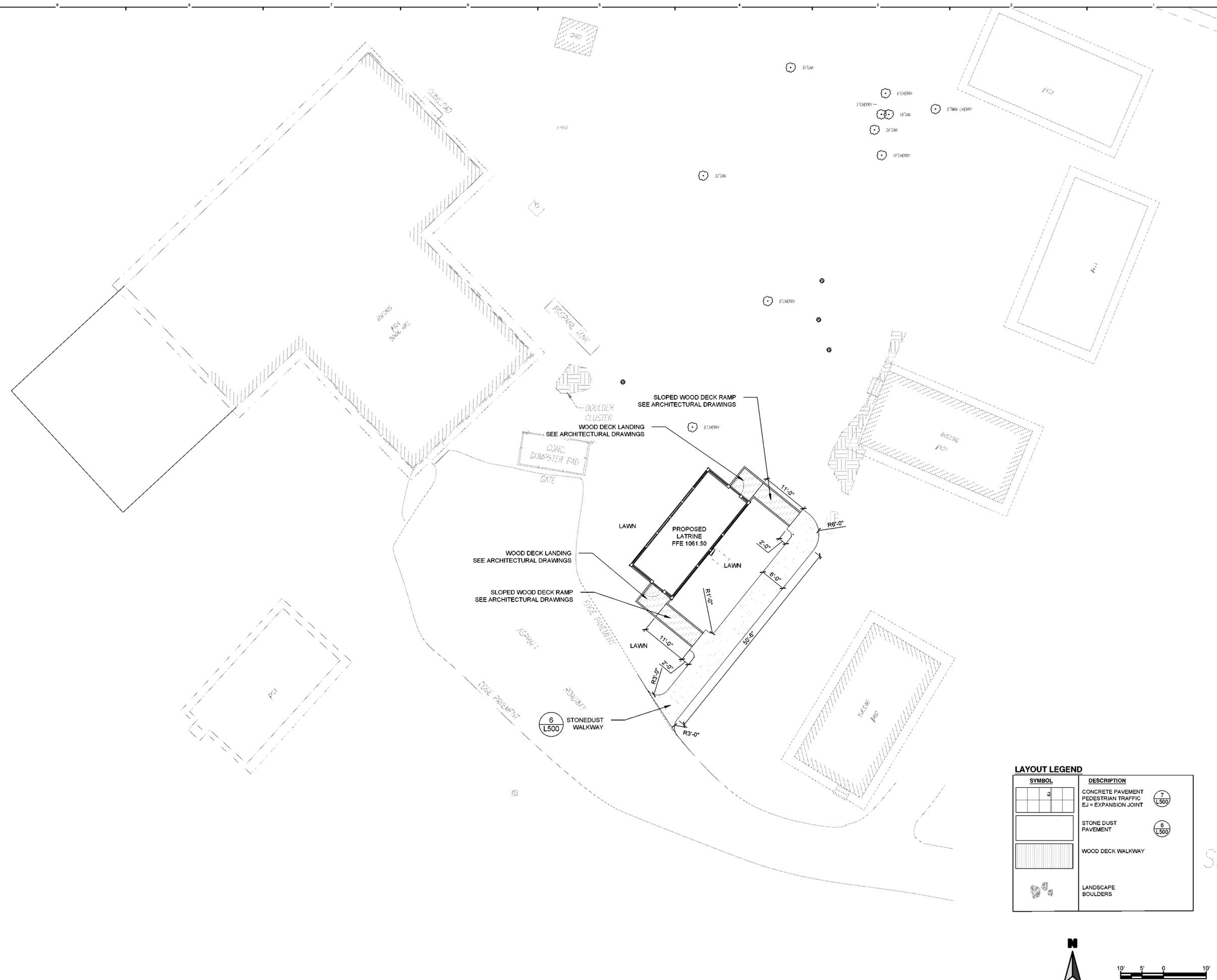


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Design By: <b>APY, JMM</b>	
Checked By: <b>APY</b>	
Approved By: <b>DFM</b>	
Date: <b>3/16/23</b>	

Sheet Title: <b>LAYOUT PLAN LATRINE #427</b>	Drawing Number: <b>L-302</b>
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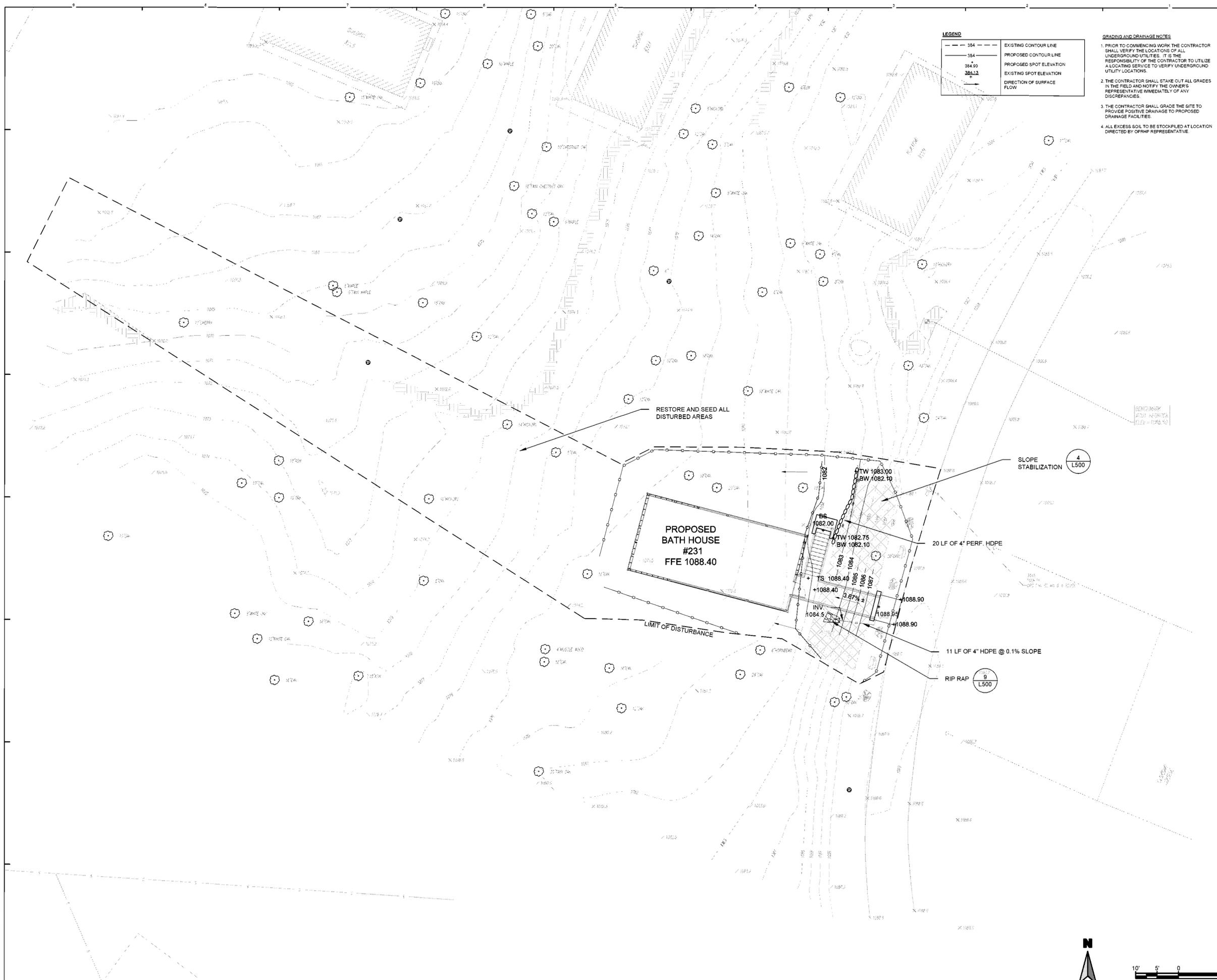
Bid Documents Set	Sheet:
Project Number: <b>21059.23</b>	



**LAYOUT LEGEND**

SYMBOL	DESCRIPTION
	CONCRETE PAVEMENT
	PEDESTRIAN TRAFFIC
	EJ = EXPANSION JOINT
	STONE DUST PAVEMENT
	WOOD DECK WALKWAY
	LANDSCAPE BOULDERS

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**LEGEND**

---	384	EXISTING CONTOUR LINE
---	384	PROPOSED CONTOUR LINE
○	384.50	PROPOSED SPOT ELEVATION
○	384.13	EXISTING SPOT ELEVATION
→		DIRECTION OF SURFACE FLOW

- GRADING AND DRAINAGE NOTES**
1. PRIOR TO COMMENCING WORK THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UTILIZE A LOCATING SERVICE TO VERIFY UNDERGROUND UTILITY LOCATIONS.
  2. THE CONTRACTOR SHALL STAKE OUT ALL GRADES IN THE FIELD AND NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES.
  3. THE CONTRACTOR SHALL GRADE THE SITE TO PROVIDE POSITIVE DRAINAGE TO PROPOSED DRAINAGE FACILITIES.
  4. ALL EXCESS SOIL TO BE STOCKPILED AT LOCATION DIRECTED BY OPRHP REPRESENTATIVE.

**New York State Parks, Recreation and Historic Preservation**  
 Governor Kathy Hochul Commissioner Erik Kulesseid

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 Professional Engineers, Inc.

Certificate of Authorization Number: Professional Engineering: 218231 Land Surveying: 017976 Geological: 018750

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 Bear Mountain, New York 10911  
 (845) 786-2701  
 Executive Director: Joshua Laird

**Project Title:**  
 CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
 HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By: <b>APY, JMM</b> Design By: <b>APY, JMM</b> Checked By: <b>APY</b> Approved By: <b>DFM</b> Date: <b>3/16/23</b>	Seal and Signature 
<b>Sheet Title:</b> GRADING PLAN BATHHOUSE #231	<b>Drawing Number:</b> <b>L-400</b>
<b>Bid Documents Set</b> Project Number: <b>21059.23</b>	Sheet:

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**New York State Parks, Recreation and Historic Preservation**  
 Governor Kathy Hochul Commissioner Erik Kulesseid

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 Land Surveying: 017976  
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 Registered Professional Engineer

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**Project Title:**  
 CAMP JUNIOR ON LAKE TIORATI - PHASE 3

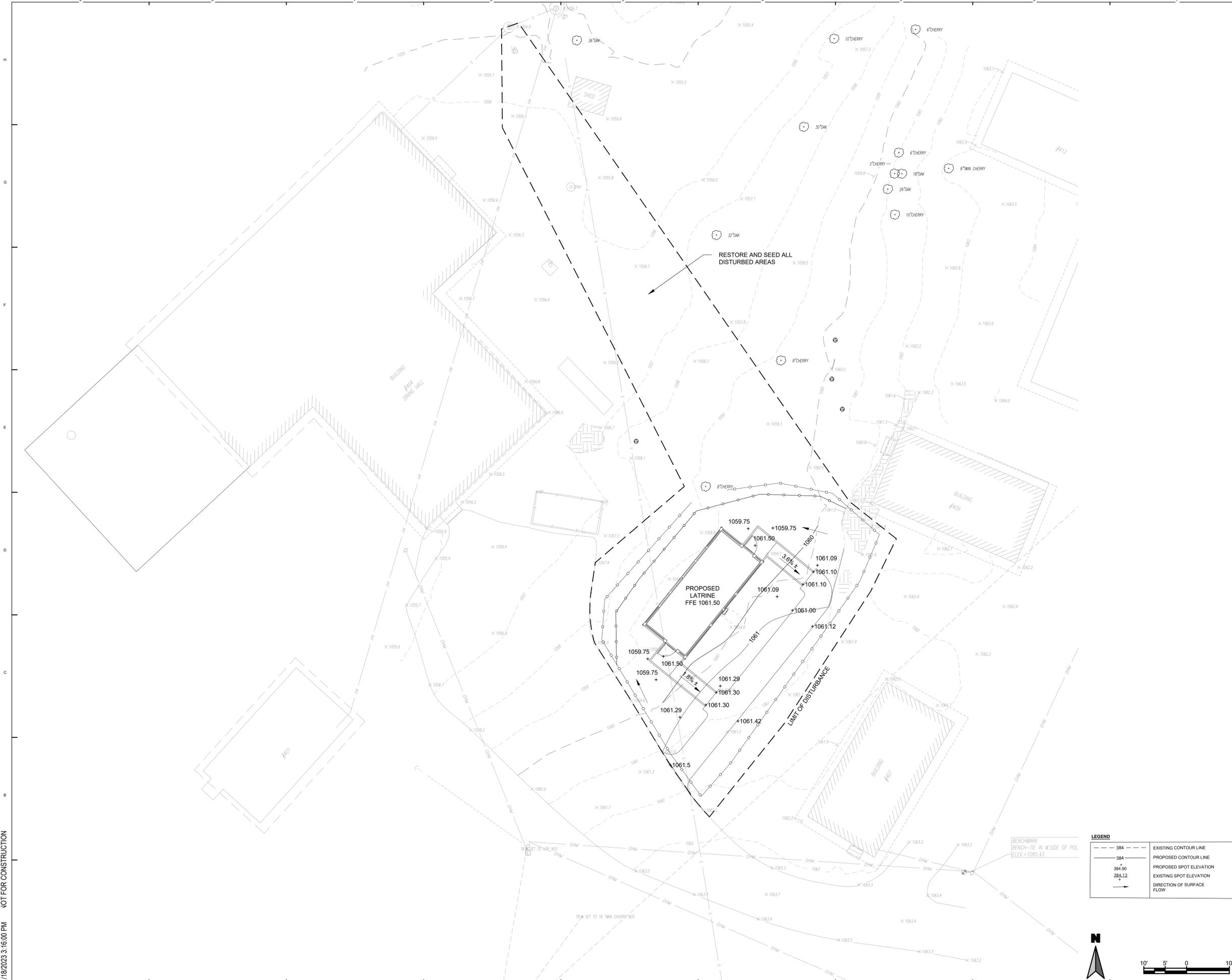
**Project Location:**  
 HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By: <b>APY, JMM</b> Design By: <b>APY, JMM</b> Checked By: <b>APY</b> Approved By: <b>DFM</b> Date: <b>3/16/23</b>	Seal and Signature 
<b>Sheet Title:</b> GRADING PLAN BATHHOUSE #322	<b>Drawing Number:</b> <b>L-401</b>
<b>Bid Documents Set</b> Project Number: <b>21059.23</b>	Sheet:



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**LEGEND**

---	384	---	EXISTING CONTOUR LINE
---	384	---	PROPOSED CONTOUR LINE
+	384.90	+	PROPOSED SPOT ELEVATION
+	384.13	+	EXISTING SPOT ELEVATION
→		→	DIRECTION OF SURFACE FLOW



**New York State Parks, Recreation and Historic Preservation**  
 Governor Kathy Hochul Commissioner Erik Kulesseid

**Architect:**  
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**Engineer:**  
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 Registered Professional Engineer

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 Bear Mountain, New York 10911  
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 Executive Director: Joshua Laird

**Project Title:**  
 CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
 HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By: <b>APY, JMM</b>	Seal and Signature 
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Checked By: <b>APY</b>	
Approved By: <b>DFM</b>	
Date: <b>3/16/23</b>	

<b>Sheet Title:</b> GRADING PLAN LATRINE #427  Bid Documents Set Project Number: <b>21059.23</b>	Drawing Number: <b>L-402</b>  Sheet:
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Geological: 018750

**Palisades Region  
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Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird**

**Project Title:  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3**

**Project Location:  
HARRIMAN STATE PARK**

**Key Plan**

REVISIONS		
Rev No	Description	Date

Drawn By:  
**APY, JMM**

Design By:  
**APY, JMM**

Checked By:  
**APY**

Approved By:  
**DFM**

Date:  
**3/16/23**



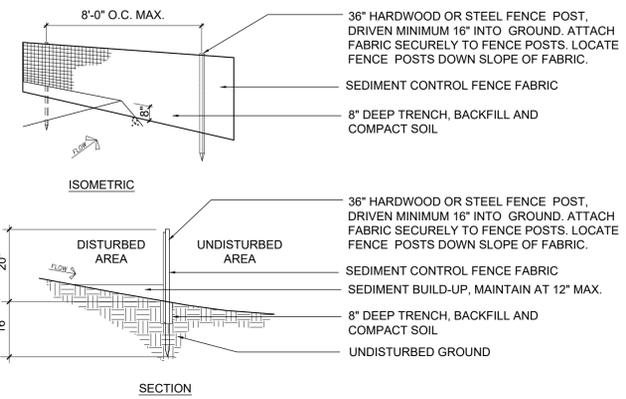
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**SITE DETAILS**

Drawing Number:  
**L-500**

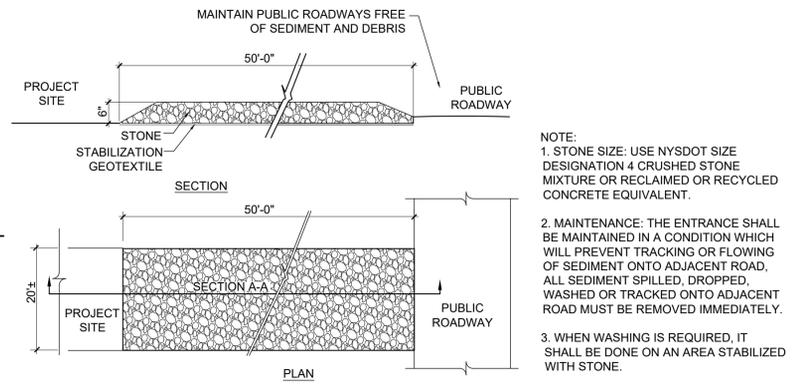
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Project Number:  
**21059.23**

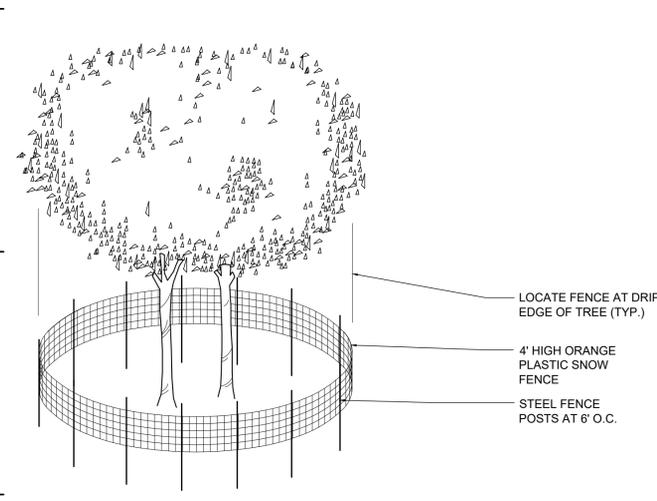
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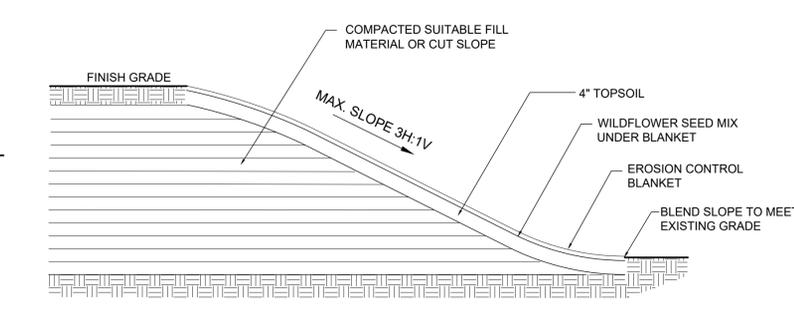
**1 SEDIMENT CONTROL FENCE**  
SCALE 1/2" = 1'-0"



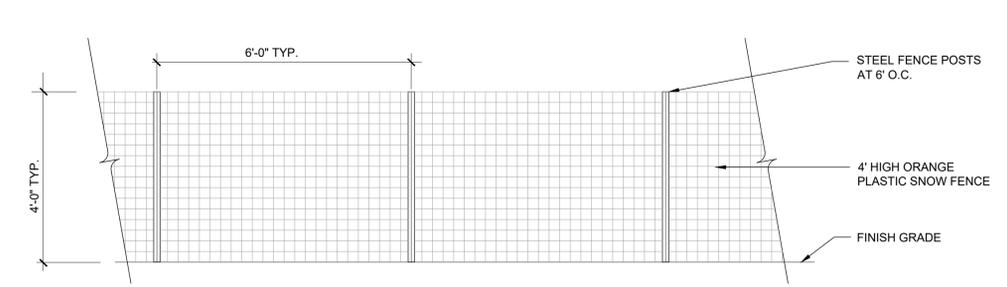
**2 STABILIZED CONSTRUCTION ENTRANCE**  
SCALE 1/2" = 1'-0"



**3 TREE PROTECTION FENCE**  
SCALE 1/2" = 1'-0"

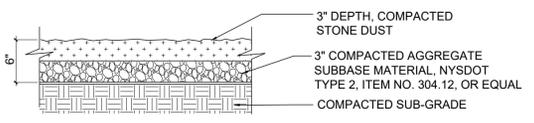


**4 SLOPE STABILIZATION**  
SCALE 1/2" = 1'-0"

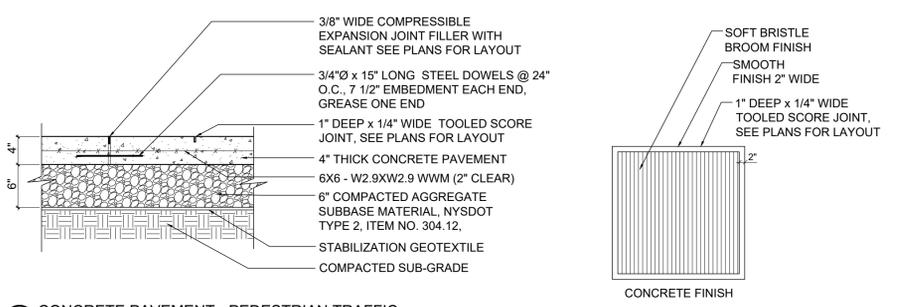


NOTES:  
1. FENCING SHALL BE PROPERLY SECURED TO POSTS AND TAUT AT ALL TIMES.  
2. PROVIDE ACCESS GATES AT ALL CONSTRUCTION ENTRANCE LOCATIONS SHOWN ON THE PLANS.  
3. ALL TEMPORARY CONSTRUCTION FENCE SHALL BE REMOVED UPON SUBSTANTIAL COMPLETION OF WORK.

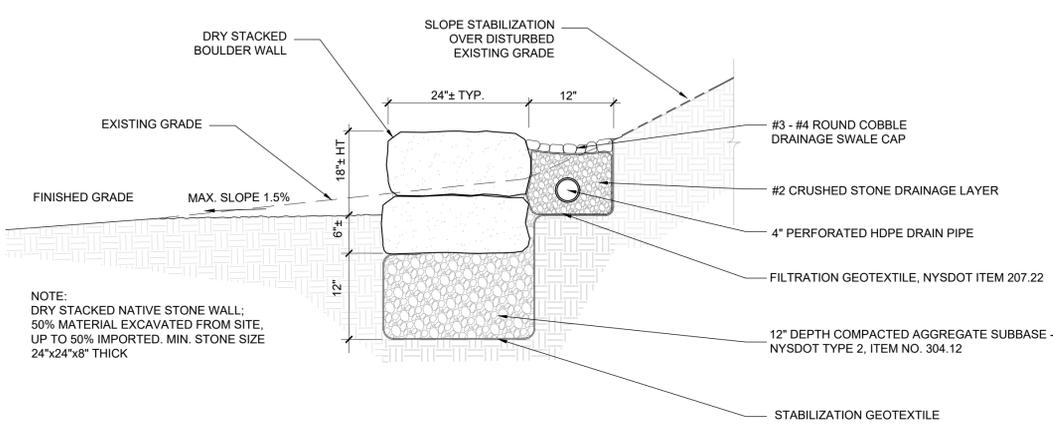
**5 4' TEMPORARY CONSTRUCTION FENCE (TYP.)**  
SCALE 1/2" = 1'-0"



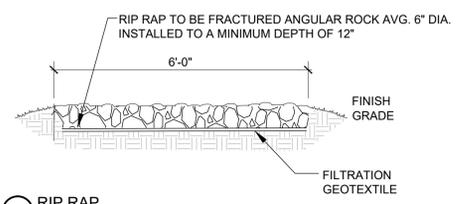
**6 STONE DUST PATH**  
SCALE 1" = 1'-0"



**7 CONCRETE PAVEMENT - PEDESTRIAN TRAFFIC**  
SCALE 1" = 1'-0"



**8 BOULDER RETAINING WALL**  
NOT TO SCALE



**9 RIP RAP**  
NOT TO SCALE

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Palisades Interstate Park Commission  
Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

REVISIONS		
Rev No	Description	Date

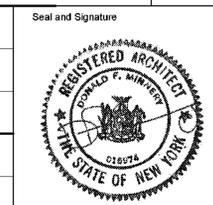
Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**



Sheet Title:  
**LIFE SAFETY PLAN**

Drawing Number:  
**A001**

**Bid Documents**

Project Number:  
**21059.23**

**DRAWING LEGEND**

- INDICATES EGRESS PATH AND DISTANCE TO EXITS
- EXIT 98 OCCUPANCY COUNT  
20 REQUIRED WIDTH (INCHES)  
36 ACTUAL EXIT WIDTH
- A-3 64 USE GROUP IN SPACE  
MAX OCCUPANCY
- ST-EX SIGN LOCATION PER OWNER

**GENERAL NOTES:**

- PROJECT WILL BE EQUIPPED WITH EMERGENCY LIGHTING. REF. ELECT. DWGS. FOR LOCATIONS.

**GENERAL CONSTRUCTION CODE DATA**

ALL WORK SHALL COMPLY WITH THE RELATED PROVISIONS OF THE 2020 UNIFORM CODE OF NEW YORK STATE WHICH ADOPTS THE 2018 IBC, ITS REFERENCE STANDARDS, AND ALL LOCAL LAW REGULATIONS.

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE EXEMPT FROM THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE DUE TO THE SECTION LISTED BELOW:

BUILDING CODE: 2020 INTERNATIONAL ENERGY CONSERVATION CODE (2020 IECC) WITH 2018 NYS SUPPLEMENT

**BUILDING CODE SECTION**

SECTION C402.1.1 LOW-ENERGY BUILDINGS

THE FOLLOWING LOW-ENERGY BUILDINGS, OR PORTIONS THEREOF SEPARATED FROM THE REMAINDER OF THE BUILDING BY BUILDING THERMAL ENVELOPE ASSEMBLIES COMPLYING WITH THIS SECTION, SHALL BE EXEMPT FROM THE BUILDING THERMAL ENVELOPE PROVISIONS OF SECTION C402.

- THOSE THAT DO NOT CONTAIN CONDITIONED SPACE.

**BUILDING CODE: 2020 NYS BUILDING CODE (2018 IBC)**

**BATHHOUSE #231 & #322**

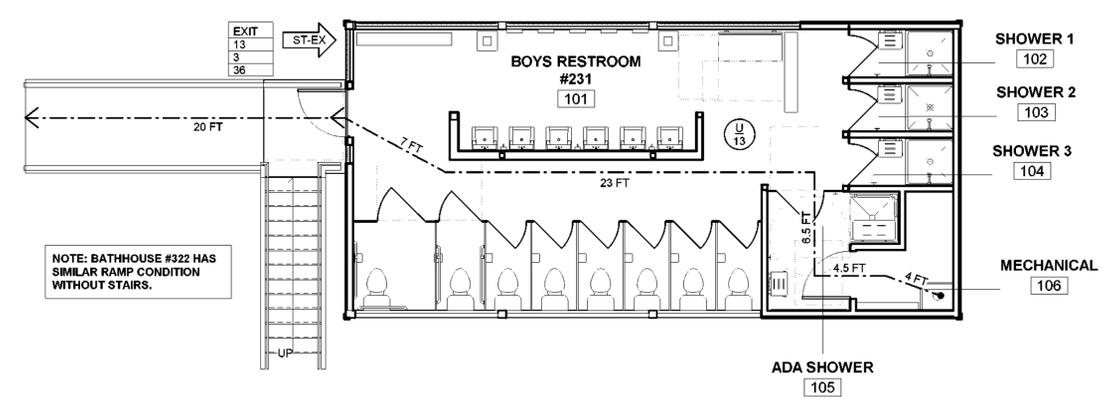
**BUILDING CODE SECTION**

SECTION	USE GROUP	REQUIRED	PROVIDED
SECTION 302.1	AREA - VB CONSTRUCTION	5,500 SF PER STORY	658 SF
TABLE 601	CONSTRUCTION CLASSIFICATION	VB	VB
	STRUCTURAL FRAME	0 HR.	0 HR.
	BEARING WALLS - EXTERIOR	0 HR.	0 HR.
	BEARING WALLS - INTERIOR	0 HR.	0 HR.
	NON-BEARING WALLS - EXTERIOR	0 HR.	0 HR.
	NON-BEARING WALLS - INTERIOR	0 HR.	0 HR.
	FLOORS	0 HR.	0 HR.
	ROOF	0 HR.	0 HR.
SECTION 707.04	SHAFT ENCLOSURE	1 HR.	NA
SECTION 903.2.7	SPRINKLERS	NOT REQUIRED	-
SECTION 906	PORTABLE FIRE EXTINGUISHERS	NOT REQUIRED	-
SECTION 1004.1.2	OCCUPANT LOAD	50 GROSS (LOCKER ROOMS) 300 GROSS (MECH. ROOM)	12 1 13
SECTION 1005.1	EGRESS WIDTH STAIRS OTHER COMPONENTS	NA 0.2" / OCC. MIN	NA 2.77" / OCC. MIN.
SECTION 1006.3.2	NUMBER OF EXITS	1 (LESS THAN 50 OCCUPANTS)	1
SECTION 1007.1.1	ARRANGEMENT	1/2 MAX. DIAGONAL	1/2 MAX. DIAGONAL
SECTION 1017.2	TRAVEL DISTANCE	300 FT MAX	70 FT MAX

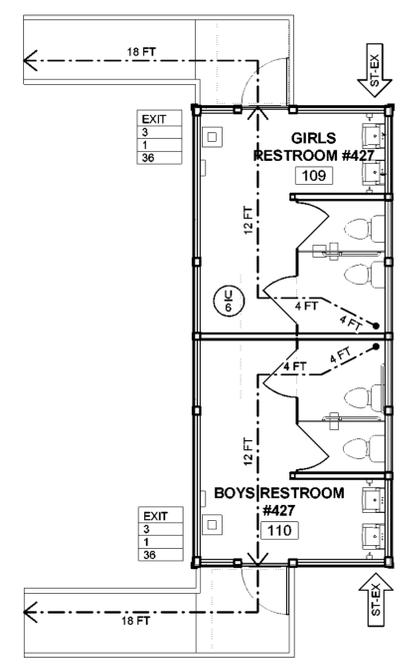
**LATRINE #427**

**BUILDING CODE SECTION**

SECTION	USE GROUP	REQUIRED	PROVIDED
SECTION 302.1	AREA - VB CONSTRUCTION	5,500 SF PER STORY	324 SF
TABLE 601	CONSTRUCTION CLASSIFICATION	VB	VB
	STRUCTURAL FRAME	0 HR.	0 HR.
	BEARING WALLS - EXTERIOR	0 HR.	0 HR.
	BEARING WALLS - INTERIOR	0 HR.	0 HR.
	NON-BEARING WALLS - EXTERIOR	0 HR.	0 HR.
	NON-BEARING WALLS - INTERIOR	0 HR.	0 HR.
	FLOORS	0 HR.	0 HR.
	ROOF	0 HR.	0 HR.
SECTION 707.04	SHAFT ENCLOSURE	1 HR.	NA
SECTION 903.2.7	SPRINKLERS	NOT REQUIRED	-
SECTION 906	PORTABLE FIRE EXTINGUISHERS	NOT REQUIRED	-
SECTION 1004.1.2	OCCUPANT LOAD	50 GROSS (LOCKER ROOM)	6
SECTION 1005.1	EGRESS WIDTH STAIRS OTHER COMPONENTS	NA 0.2" / OCC. MIN	NA 12" / OCC. MIN.
SECTION 1006.3.2	NUMBER OF EXITS	1 (LESS THAN 50 OCCUPANTS)	1
SECTION 1007.1.1	ARRANGEMENT	1/2 MAX. DIAGONAL	1/2 MAX. DIAGONAL
SECTION 1017.2	TRAVEL DISTANCE	300 FT MAX	38 FT MAX



1 BATHHOUSE #231 & #322 CODE PLAN  
3/16" = 1'-0"



2 LATRINE #427 CODE PLAN  
3/16" = 1'-0"

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Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No.	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature

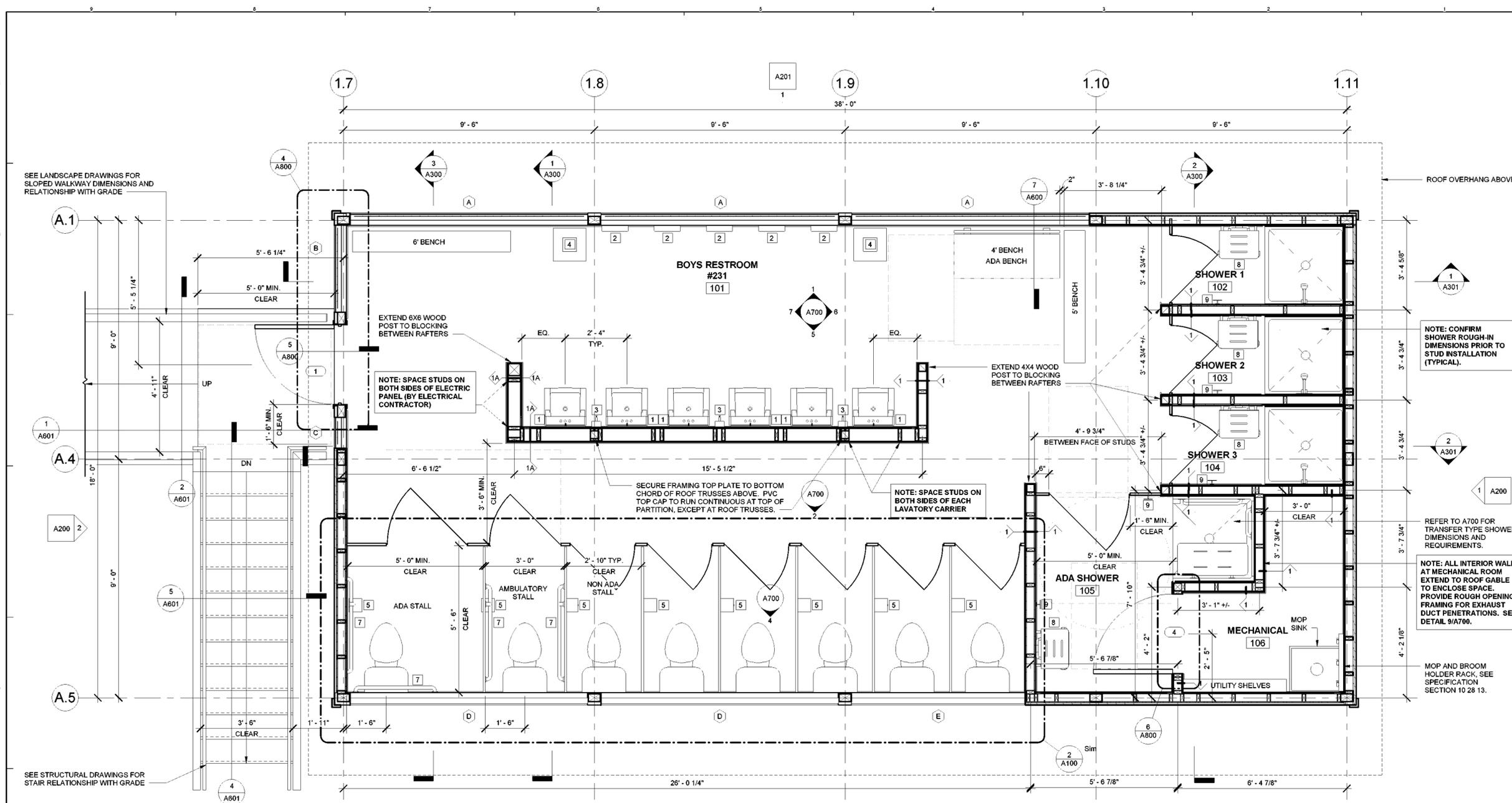


Sheet Title:  
**FLOOR PLANS -  
BATHHOUSE  
#231 & #322**

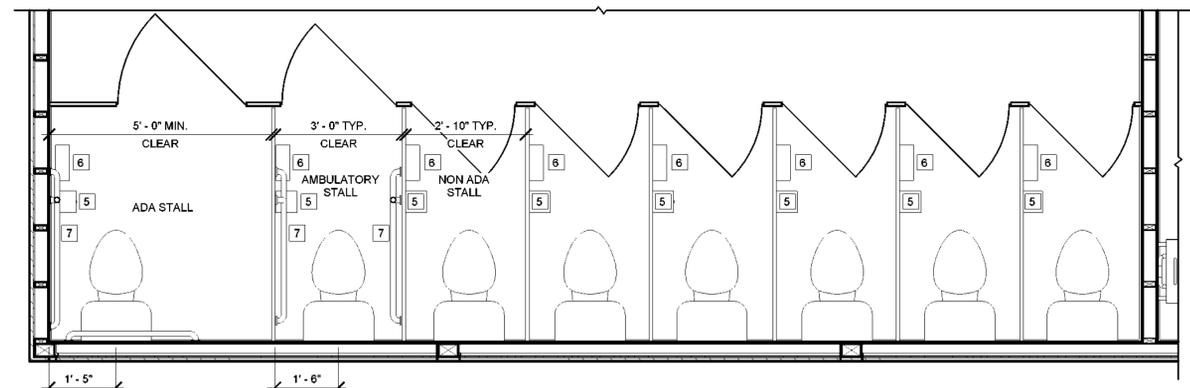
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**A100**

**Bid Documents**

Project Number:  
**21059.23**



**1 BATHHOUSE #231**  
1/2" = 1'-0"



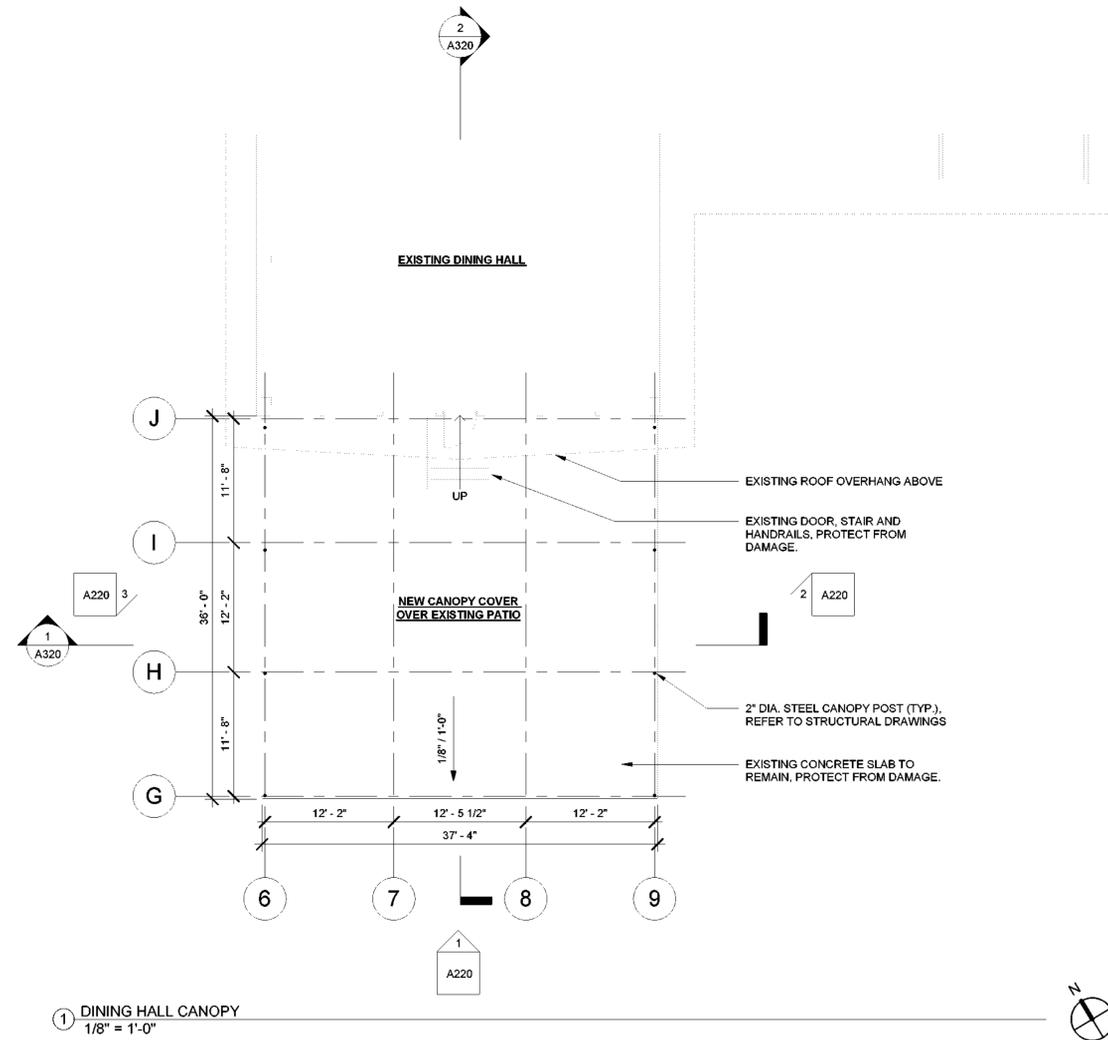
**2 BATHHOUSE #322**  
1/2" = 1'-0"



- GENERAL NOTES**
- REFER TO A700 FOR WALL TYPES AND TOILET ACCESSORIES LEGEND.
  - REFER TO A800 FOR DOOR AND WINDOW SIZES AND DETAILS.
  - REFER TO STRUCTURAL DWGS. FOR ADDITIONAL DIMENSIONS.
  - T.O. OF INTERIOR PARTITIONS TO ALIGN WITH TOP OF PERIMETER BEAMS, UNLESS OTHERWISE NOTED. DO NOT SCALE DRAWINGS. USE FIGURED DIMENSIONS. CENTER PARTITIONS ON COLUMNS OR MULLIONS UNLESS OTHERWISE NOTED, OR USE EQUAL / EQUAL AND ALIGN NOTES TO LOCATE PARTITIONS. NOTIFY THE OWNERS REPRESENTATIVE OF MISSING DIMENSIONS AND DISCREPANCIES AND GET RESOLVED PRIOR TO PROCEEDING WITH THE WORK.
  - UNLESS INDICATED OTHERWISE, ALL DIMENSIONS ARE TO/FROM CENTER OF STUD, FACE OF CONC., OR STRUCT. COLUMN GRIDS.
  - SEE FINISH SCHEDULE AND NOTES FOR WALL BASE MATERIALS. IT IS INTENDED THAT THE FACE OF EVERY CONTINUOUS PARTITION BE FLUSH WITHOUT OFFSETS. CHANGES IN PARTITION THICKNESS SHALL OCCUR AT CORNERS OR OTHER FEATURES WHICH INTERRUPT THE PLANES OF THE PARTITION.
  - THE DISTANCE FROM THE CLEAR FACE OF DOOR JAMB TO ADJACENT PERPENDICULAR WALL SHALL BE 6" IN STUD WALL CONSTRUCTION, UNLESS OTHERWISE NOTED. PROVIDE CONTINUOUS CONTROL JOINTS AT 30'-0" O.C. MAXIMUM VERTICAL AND HORIZONTAL IN ALL WALLS AND CEILINGS (UOI). COORDINATE ACTUAL LOCATIONS IN THE FIELD WITH OWNER'S REPRESENTATIVE.
  - PROVIDE PROTECTION FOR ALL CONCEALED ELECTRICAL CONDUCTORS AND PLUMBING LINES AT ALL PLATES AND STUDS AS REQUIRED.
  - DO NOT CUT THROUGH FRAMING UNLESS APPROVED BY DIRECTOR'S REPRESENTATIVE.
  - COORDINATE FLOOR FRAMING WITH PLUMBING CONTRACTOR AND ADJUST FLOOR FRAMING AS REQUIRED FOR TOILET, SHOWER AND MOP SINK OUTLETS, PROVIDING HEADERS THE SAME SIZE AS FLOOR JOISTS WITH STEEL JOIST HANGERS AS REQUIRED. PROVIDE SOLID BLOCKING UNDER FLOOR DECK AND BETWEEN FLOOR JOISTS AT/ UNDER SUCH PLUMBING FIXTURES AS REQUIRED AND SIMILAR TO DETAIL 7/A600.



- CANOPY GENERAL NOTES:**
1. PROTECT ALL EXISTING CONSTRUCTION FROM DAMAGE DURING CANOPY INSTALLATION.
  2. VERIFY ALL EXISTING DIMENSIONS IN FIELD PRIOR TO INSTALLATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
  3. SEE STRUCTURAL DRAWINGS FOR ROOF FRAMING PLAN AND FRAMING CONNECTION DETAILS.



1 DINING HALL CANOPY  
1/8" = 1'-0"



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Geological: 018750

**Palisades Region**  
Palisades Interstate Park Commission  
Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature

Sheet Title:  
**FLOOR PLANS -  
DINING HALL  
#404 CANOPY**

Drawing Number:  
**A102**

**Bid Documents**

Project Number:  
**21059.23**

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**Project Location:**  
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**Key Plan**

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Design By:  
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Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature

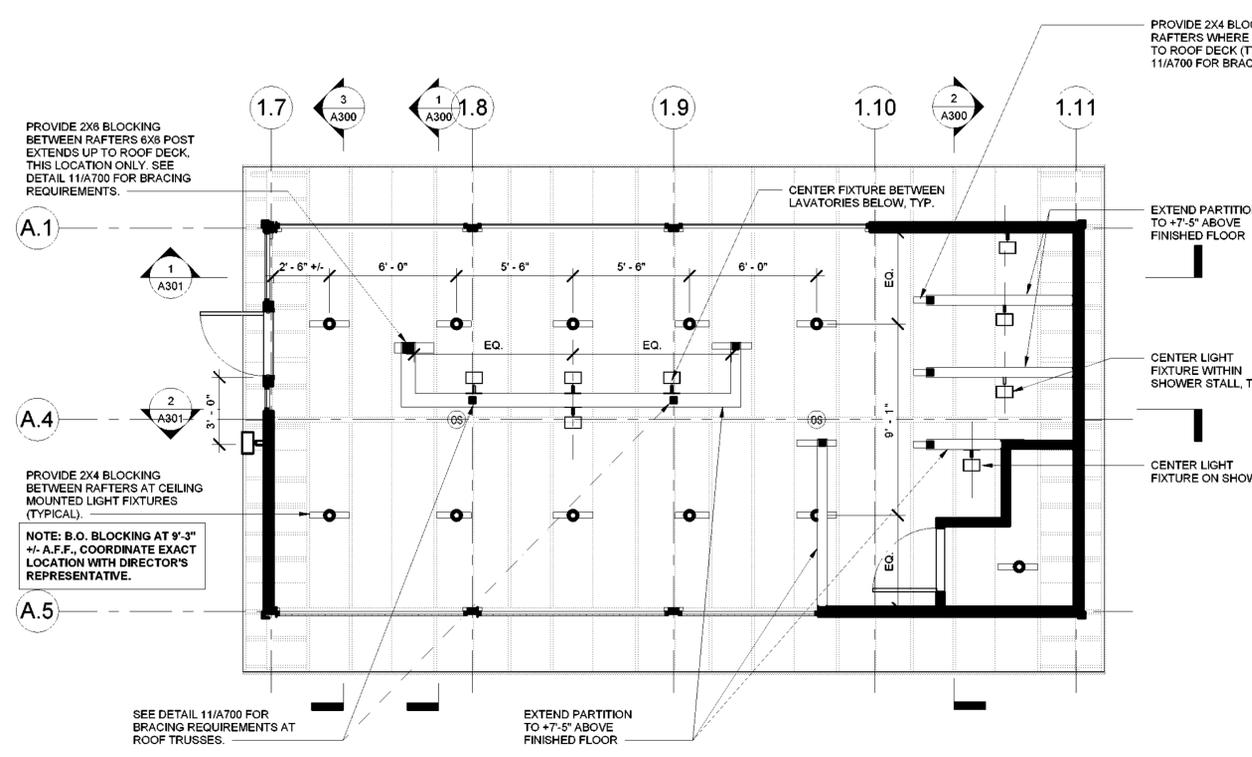


Sheet Title:  
**RCP & ROOF PLAN -  
BATHHOUSE  
#231 & #322**

Drawing Number:  
**A110**

**Bid Documents**

Project Number:  
**21059.23**



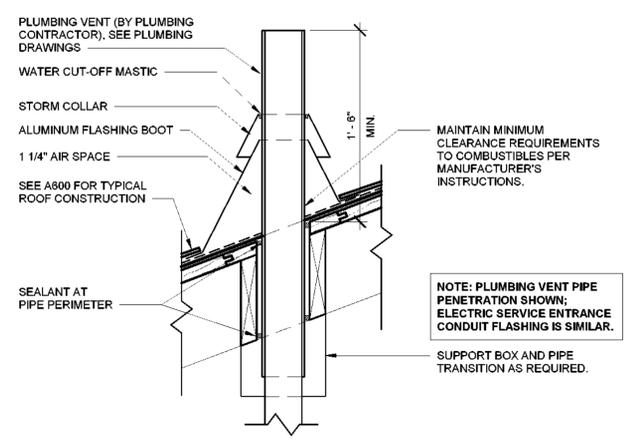
1 REFLECTED CEILING PLAN BATHHOUSE #231 & #322  
1/4" = 1'-0"

**GENERAL NOTES**

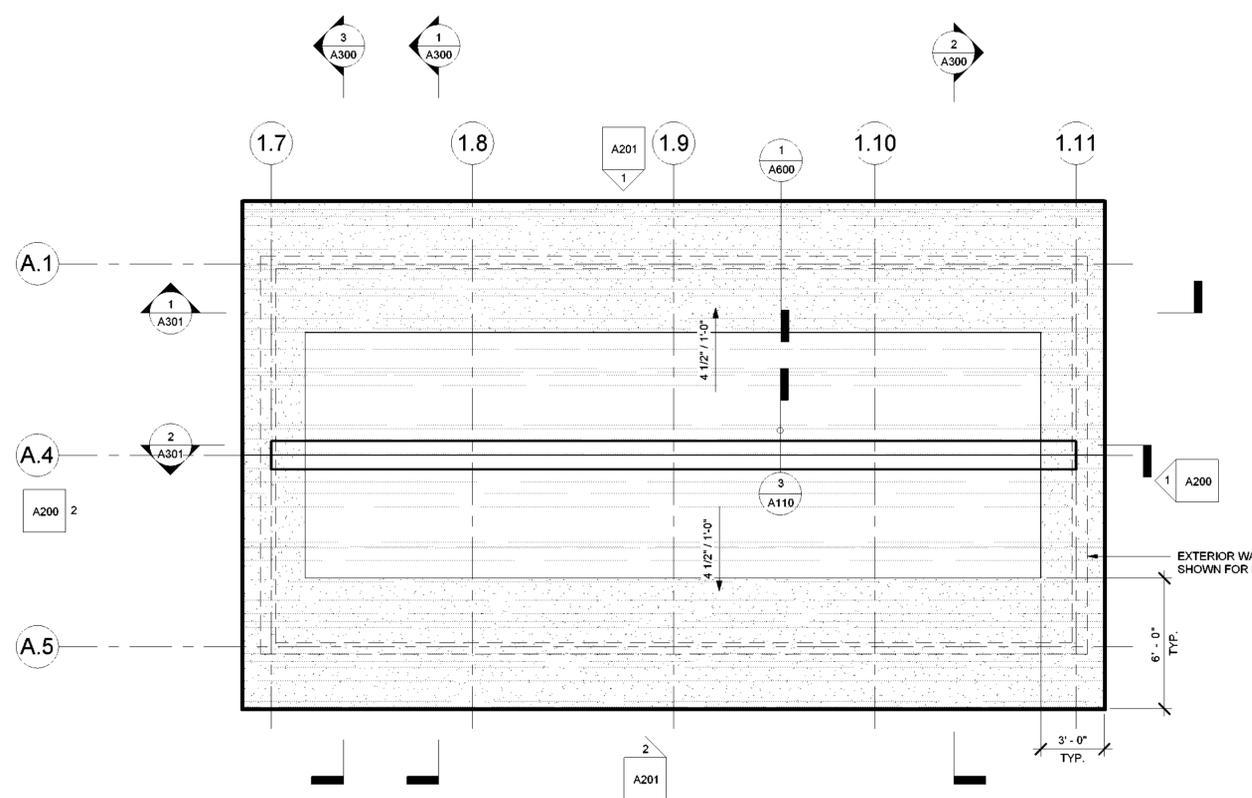
1. ALL DIMENSIONS INDICATE CENTER LINE OF FIXTURE OR FACE OF WALL FINISH, UNLESS OTHERWISE NOTED.
2. CENTER CEILING MOUNTED LIGHT FIXTURES BETWEEN RAFTERS (TYPICAL).
3. SEE ELECT. DWGS FOR LIGHTING FIXTURE TYPES.
4. SEE STRUCTURAL DRAWINGS FOR FRAMING PLAN.

**RCP SYMBOL LEGEND**

- CEILING MOUNTED LIGHT FIXTURE (SURFACE MOUNTED)
- WALL MOUNTED LIGHT FIXTURE
- OCCUPANCY SENSOR
- EMERGENCY LIGHT FIXTURE



3 TYP. PIPE PENETRATION FLASHING DETAIL  
1 1/2" = 1'-0"



2 ROOF PLAN BATHHOUSE #231 & #322  
1/4" = 1'-0"

**GENERAL ROOF NOTES**

1. COORDINATE WORK WITH OTHER TRADES WHERE SPECIFIC DETAILS ARE NOT INDICATED. PROVIDE MANUFACTURER'S STANDARD ROOFING DETAILS AT ALL PENETRATIONS, TERMINATIONS AND TRANSITIONS.
2. ICE & WATER SHIELD IS TO BE APPLIED AROUND ALL ROOF PENETRATIONS, ROOF OPENINGS, AND AT ALL ROOF EDGES. PRODUCT IS TO BE INSTALLED PER MANUFACTURER'S DIRECTION.
3. EXHAUST VENT, SEE MECHANICAL DRAWINGS

**ROOF PLAN SYMBOL LEGEND**

- ASPHALT SHINGLE ROOF
- ICE & WATER SHIELD
- WALL BELOW
- ROOF SLOPE
- EXHAUST VENT, SEE MECHANICAL DRAWINGS

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Geological: 018750

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**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

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Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature



Sheet Title:  
**RCP & ROOF PLAN - LATRINE #427**

Drawing Number:  
**A111**

**Bid Documents**

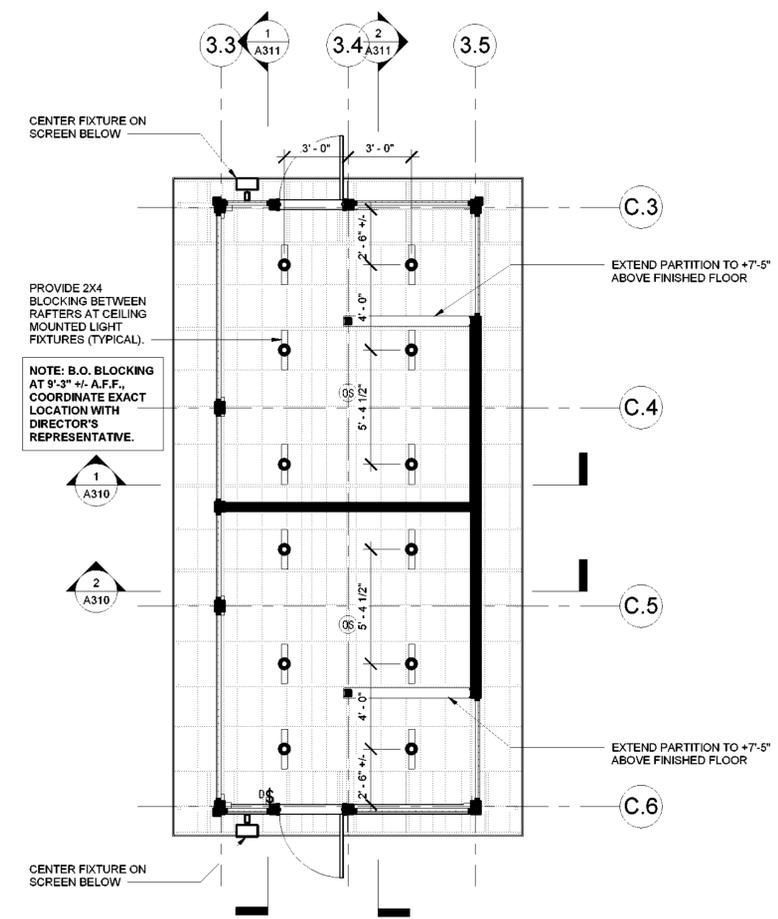
Project Number:  
**21059.23**

- GENERAL NOTES**
- ALL DIMENSIONS INDICATE CENTER LINE OF FIXTURE OR FACE OF WALL FINISH, UNLESS OTHERWISE NOTED.
  - CENTER CEILING MOUNTED LIGHT FIXTURES BETWEEN RAFTERS (TYPICAL).
  - SEE ELECT. DWGS FOR LIGHTING FIXTURE TYPES.
  - SEE STRUCTURAL DRAWINGS FOR FRAMING PLAN.

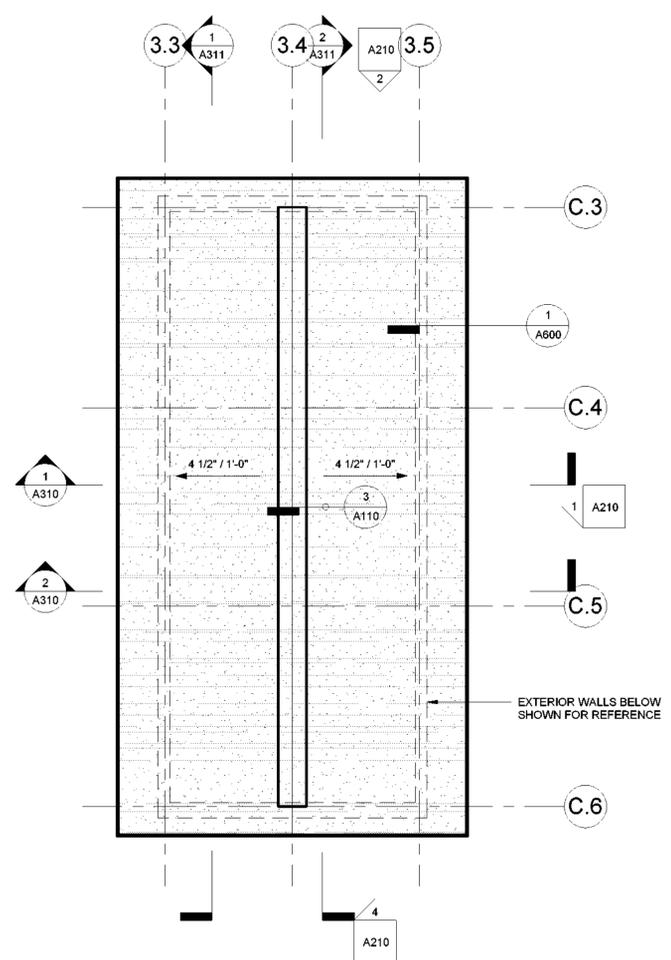
- RCP SYMBOL LEGEND**
- CEILING MOUNTED LIGHT FIXTURE (SURFACE MOUNTED)
  - WALL MOUNTED LIGHT FIXTURE
  - OS OCCUPANCY SENSOR
  - ↔ EMERGENCY LIGHT FIXTURE

- GENERAL ROOF NOTES**
- COORDINATE WORK WITH OTHER TRADES
  - WHERE SPECIFIC DETAILS ARE NOT INDICATED, PROVIDE MANUFACTURER'S STANDARD ROOFING DETAILS AT ALL PENETRATIONS, TERMINATIONS AND TRANSITIONS.
  - ICE & WATER SHIELD IS TO BE APPLIED AROUND ALL ROOF PENETRATIONS, ROOF OPENINGS, AND AT ALL ROOF EDGES. PRODUCT IS TO BE INSTALLED PER MANUFACTURERS DIRECTION.

- ROOF PLAN SYMBOL LEGEND**
- ▨ ASPHALT SHINGLE ROOF
  - ▨ ICE & WATER SHIELD
  - WALL BELOW
  - ROOF SLOPE
  - EXHAUST VENT, SEE MECHANICAL DRAWINGS



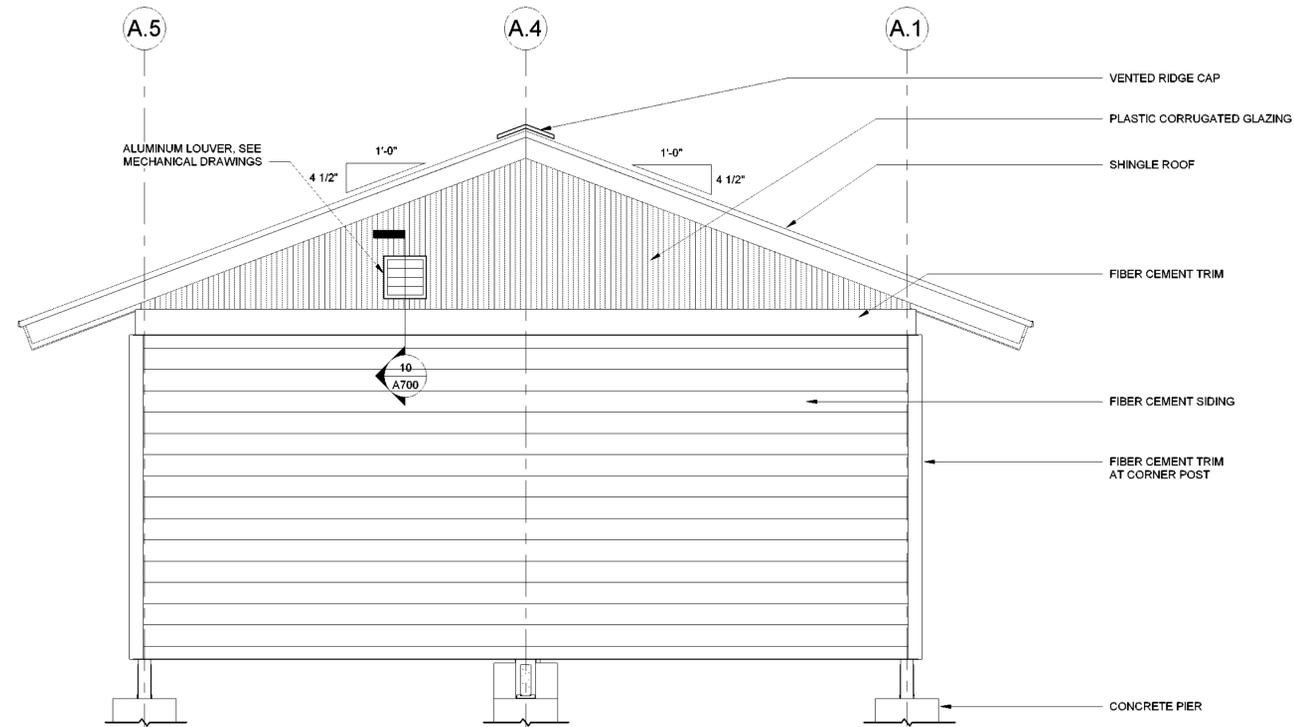
① BUILDING #427 REFLECTED CEILING PLAN  
1/4" = 1'-0"



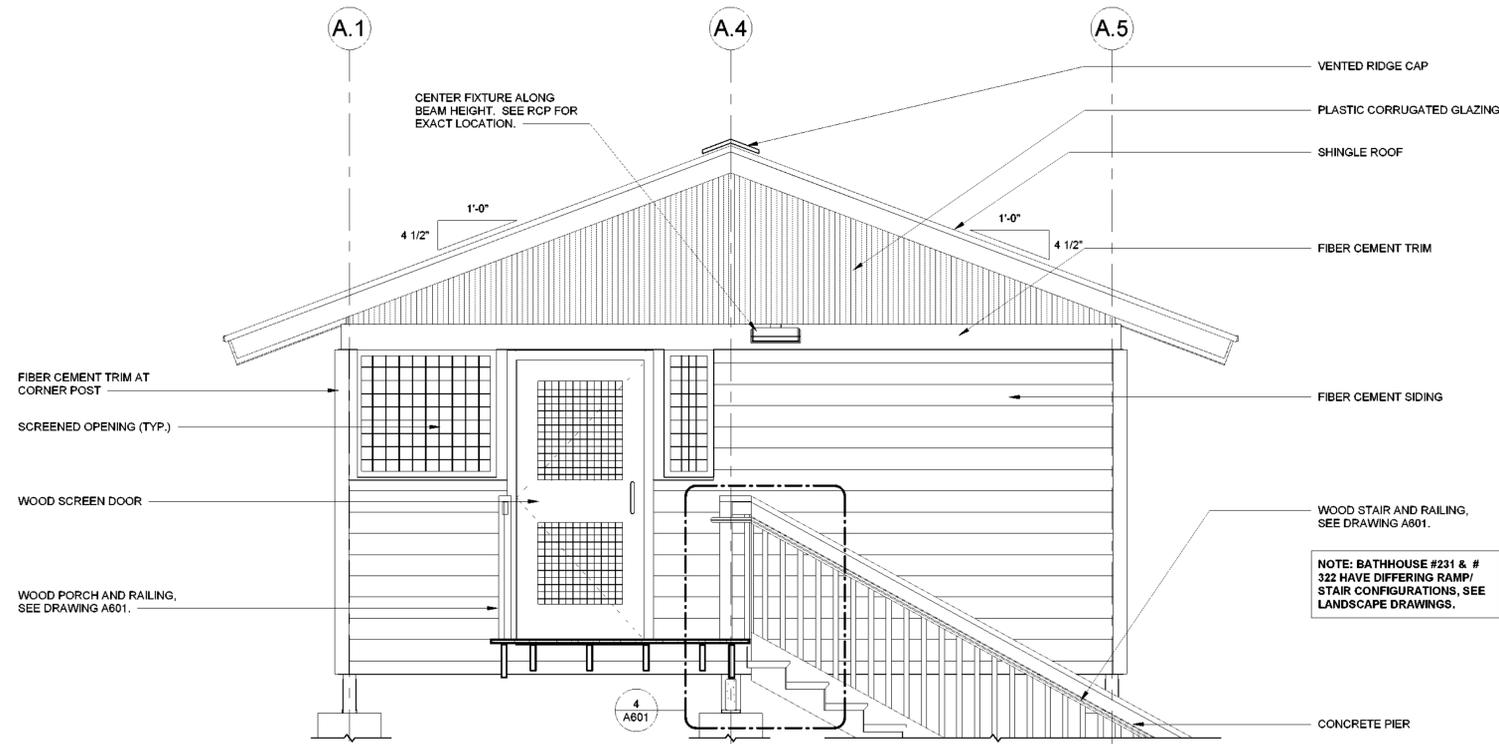
② LATRINE #427 ROOF PLAN  
1/4" = 1'-0"

**BATHHOUSE #231 & #322 GENERAL NOTES:**

1. GRADE NOT SHOWN AS BATHHOUSE #231 & #322 HAVE DIFFERING SITE CONDITIONS. SEE LANDSCAPE DRAWINGS.
2. SEE DRAWING A601 FOR RAMP DETAILS AT BATHHOUSE #231. SEE DRAWING A602 FOR RAMP DETAIL AT BATHHOUSE #322. SIM.
3. ALL EXPOSED WOOD FRAMING, ROOF DECKING, SIDING, AND TRIM (NON PRESSURE-TREATED) TO BE PAINTED. SEE SPECIFICATION SECTION 09 91 01.
4. SEE MECHANICAL DRAWINGS FOR DUCT/PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.



① BATHHOUSE #231 & #322 - EAST  
1/2" = 1'-0"



② BATHHOUSE #231 & #322 - WEST  
1/2" = 1'-0"

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Geological: 018750

**Palisades Region**  
Palisades Interstate Park Commission  
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(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature

**Sheet Title:**  
ELEVATIONS -  
BATHHOUSE  
#231 & #322

Drawing Number:  
**A200**

**Bid Documents**

Project Number:  
**21059.23**

**BATHHOUSE #231 & #322 GENERAL NOTES:**

1. GRADE NOT SHOWN AS BATHHOUSE #231 & #322 HAVE DIFFERING SITE CONDITIONS. SEE LANDSCAPE DRAWINGS.
2. SEE DRAWING A601 FOR RAMP DETAILS AT BATHHOUSE #231. SEE DRAWING A602 FOR RAMP DETAIL AT BATHHOUSE #322. SIM.
3. ALL EXPOSED WOOD FRAMING, ROOF DECKING, SIDING, AND TRIM (NON PRESSURE-TREATED) TO BE PAINTED. SEE SPECIFICATION SECTION 09 91 01.
4. SEE MECHANICAL DRAWINGS FOR DUCT/ PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.

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**Project Title:**  
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**Project Location:**  
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Design By:  
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**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

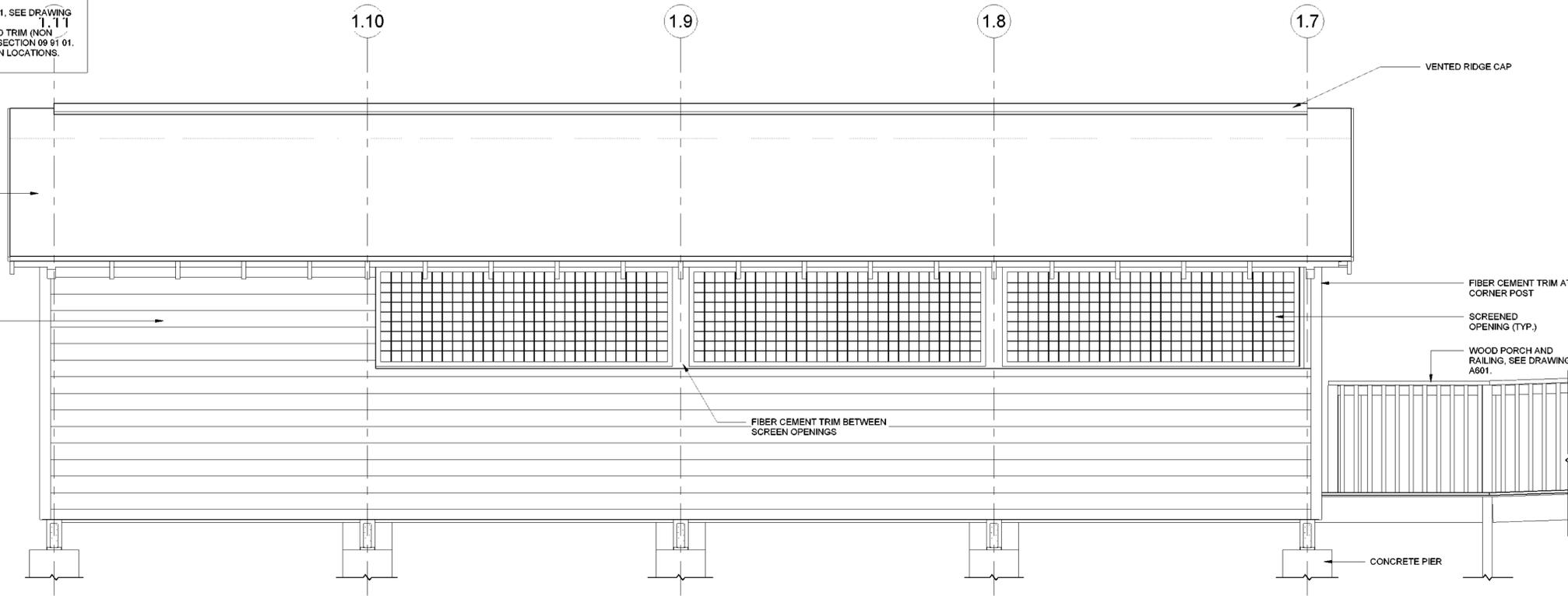
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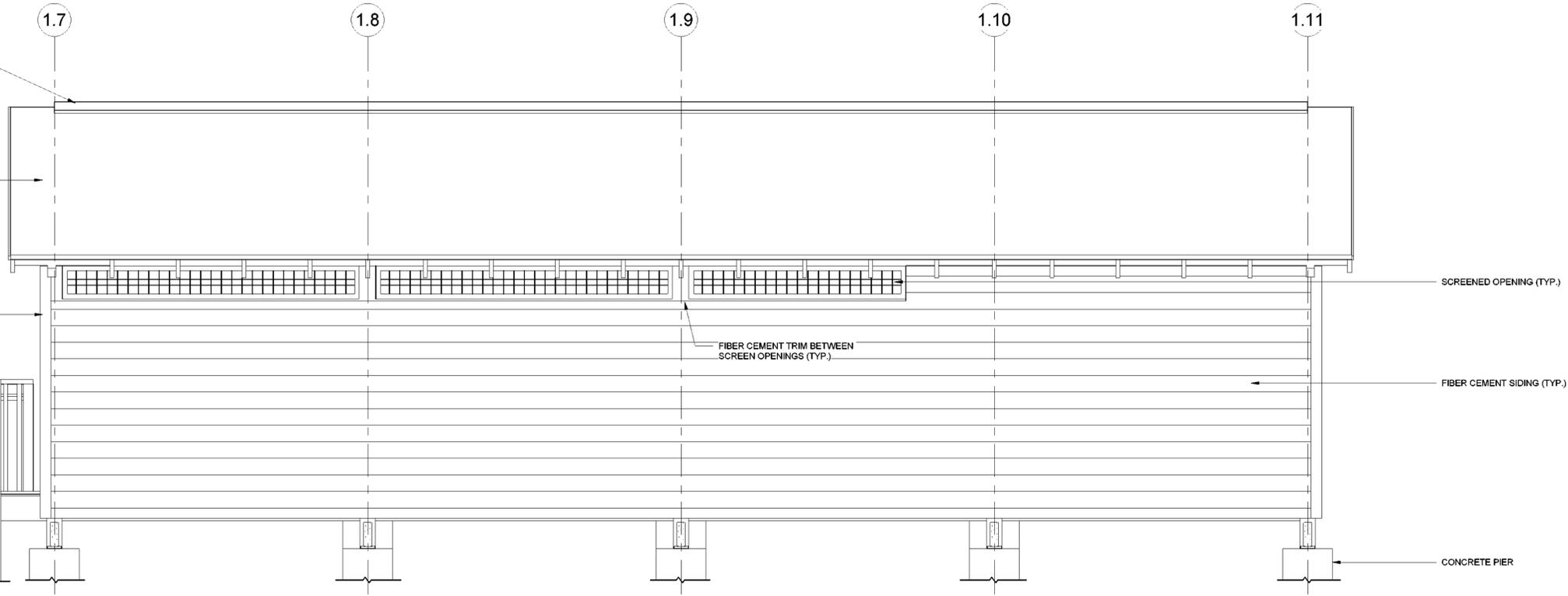
**Sheet Title:**  
 ELEVATIONS - BATHHOUSE #231 & #322

**Drawing Number:**  
**A201**

**Bid Documents**  
 Project Number:  
**21059.23**



① BATHHOUSE #231 & #322 - NORTH  
 1/2" = 1'-0"



② BATHHOUSE #231 & #322 - SOUTH  
 1/2" = 1'-0"

NOTE: BATHHOUSE #231 & #322 HAVE DIFFERING RAMP CONFIGURATIONS. SEE LANDSCAPE DRAWINGS.

**LATRINE #427 GENERAL NOTES:**

1. SEE DRAWING A602 FOR RAMP DETAILS.
2. ALL EXPOSED WOOD FRAMING, ROOF DECKING, SIDING, AND TRIM (NON PRESSURE-TREATED) TO BE PAINTED. SEE SPECIFICATION SECTION 09 01 01.
3. SEE MECHANICAL DRAWINGS FOR DUCT/ PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.

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**Project Location:**  
 HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

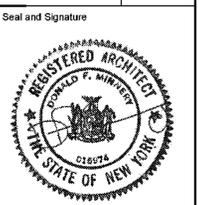
Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

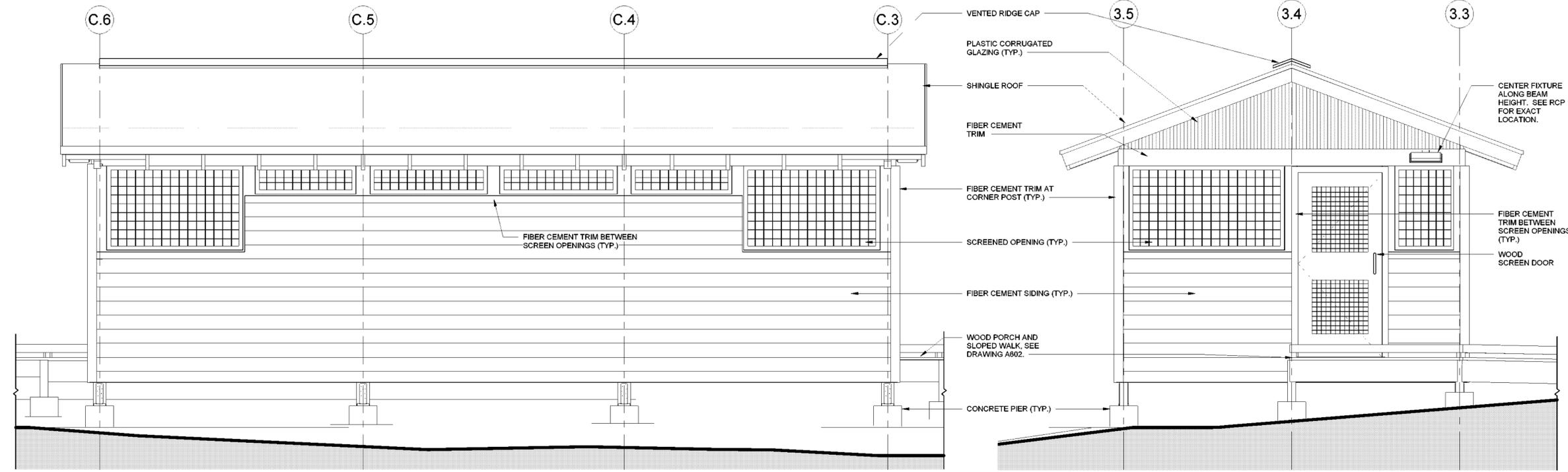


Sheet Title:  
**ELEVATIONS - LATRINE #427**

Drawing Number:  
**A210**

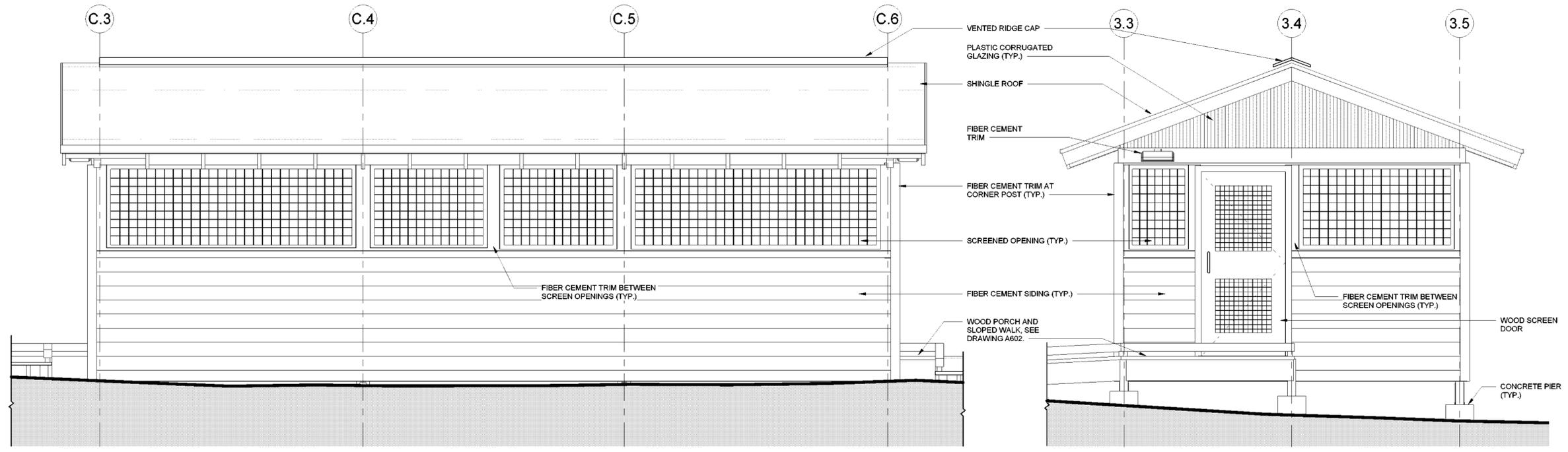
**Bid Documents**

Project Number:  
**21059.23**



① LATRINE #427 - EAST  
 1/2" = 1'-0"

② LATRINE #427 - NORTH  
 1/2" = 1'-0"

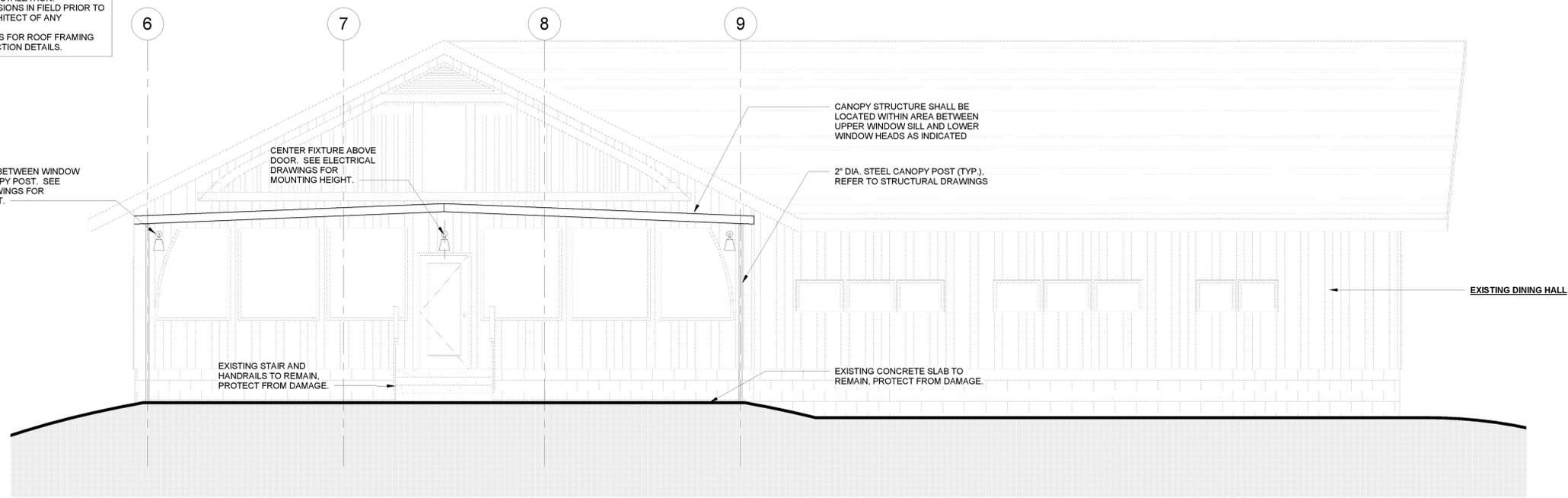


③ LATRINE #427 - WEST  
 1/2" = 1'-0"

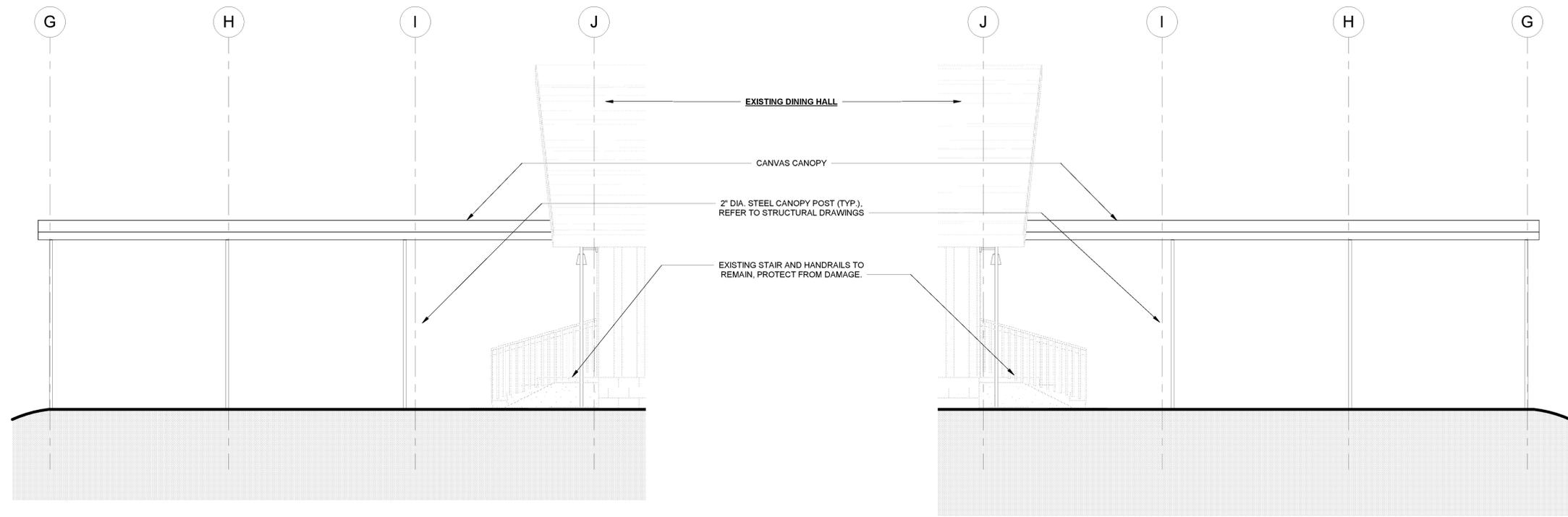
④ LATRINE #427 - SOUTH  
 1/2" = 1'-0"

**CANOPY GENERAL NOTES:**

1. PROTECT ALL EXISTING CONSTRUCTION FROM DAMAGE DURING CANOPY INSTALLATION. VERIFY ALL EXISTING DIMENSIONS IN FIELD PRIOR TO INSTALLATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. SEE STRUCTURAL DRAWINGS FOR ROOF FRAMING PLAN AND FRAMING CONNECTION DETAILS.



① DINING HALL - SOUTH  
1/4" = 1'-0"



② DINING HALL - EAST  
1/4" = 1'-0"

③ DINING HALL - WEST  
1/4" = 1'-0"

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Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

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**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature

**Sheet Title:**  
ELEVATIONS -  
DINING HALL  
#404

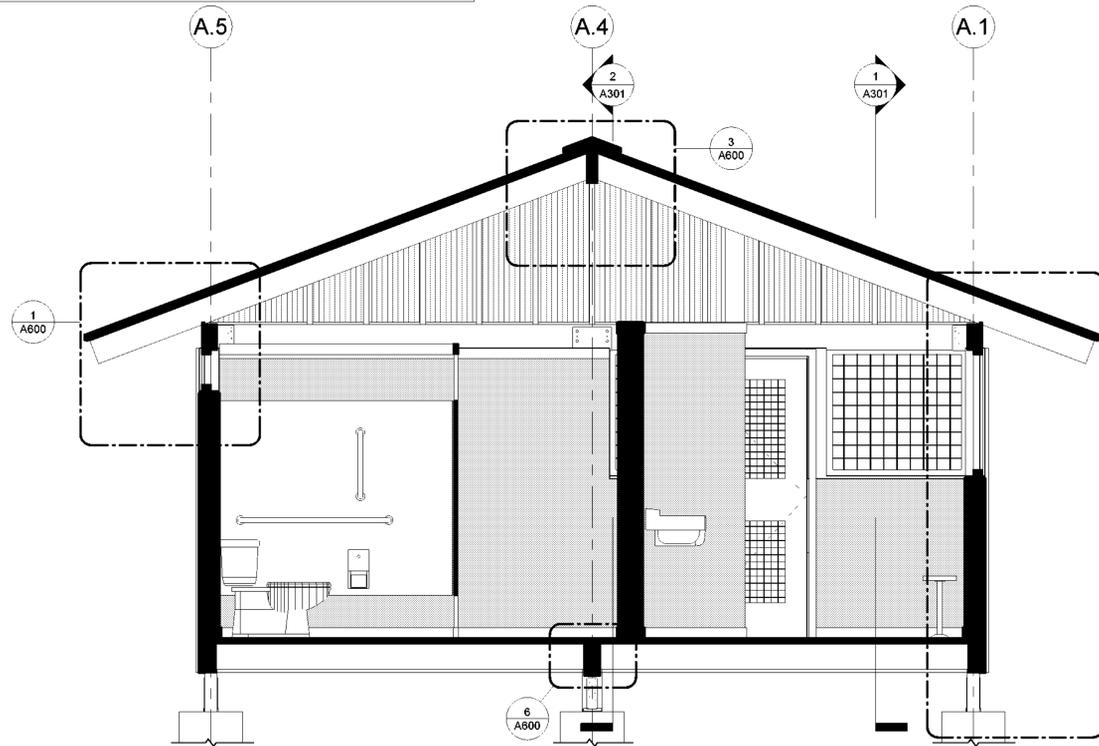
Drawing Number:  
**A220**

**Bid Documents**

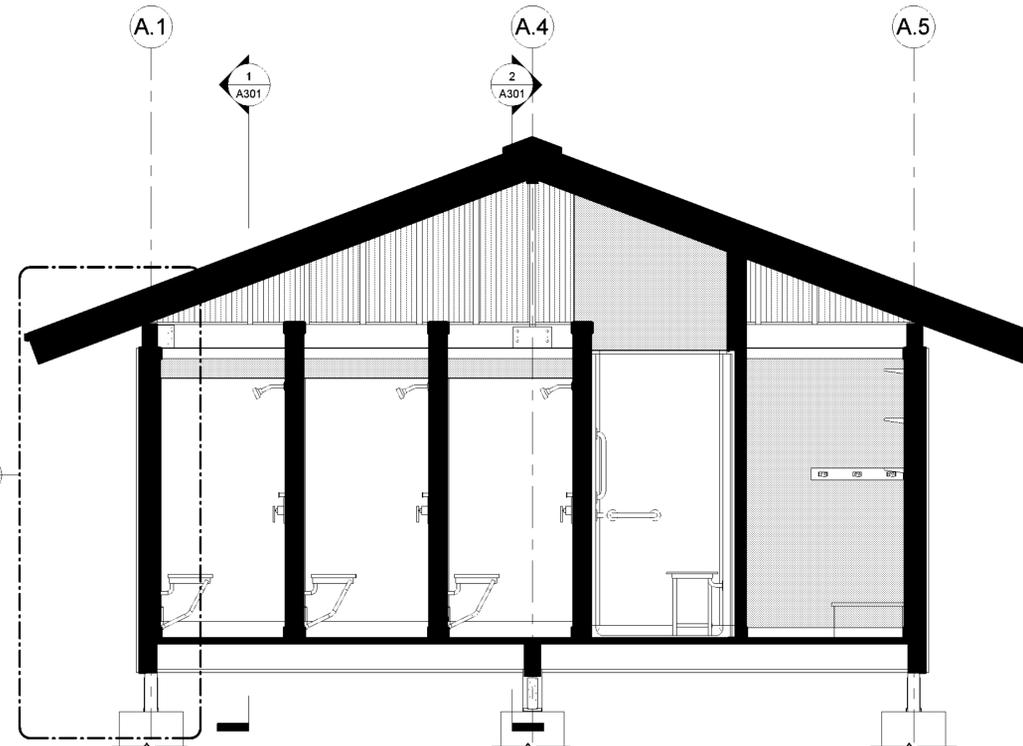
Project Number:  
**21059.23**

**BATHHOUSE #231 & #322 GENERAL NOTES:**

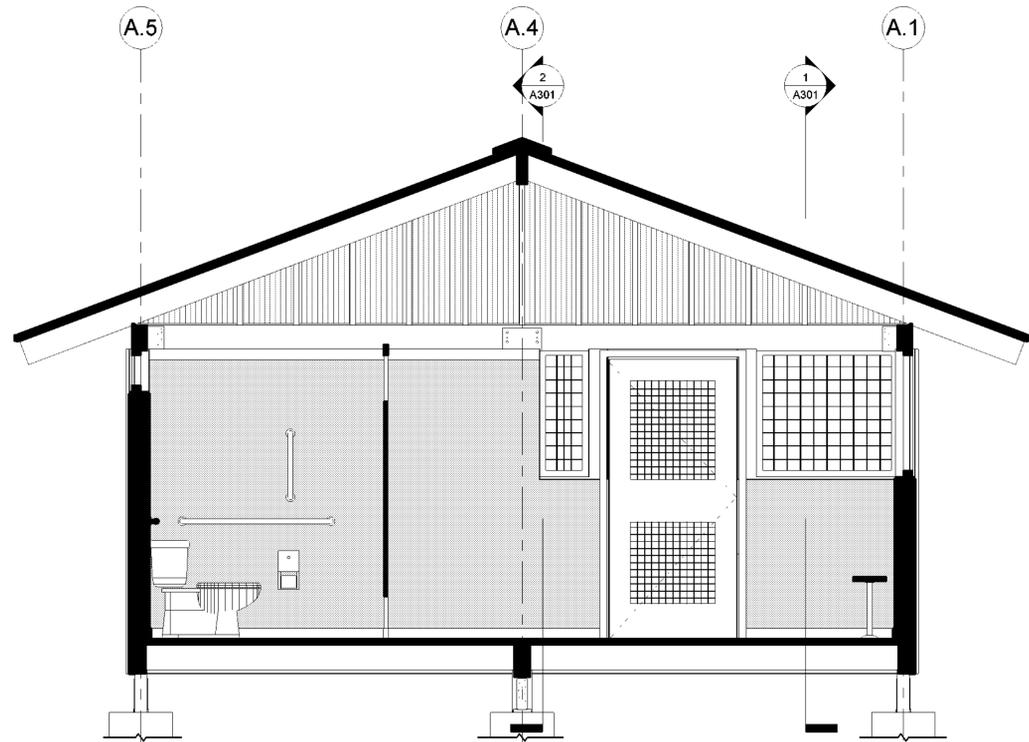
1. GRADE NOT SHOWN AS BATHHOUSE #231 & #322 HAVE DIFFERING SITE CONDITIONS. SEE LANDSCAPE DRAWINGS.
2. SEE DRAWING A601 FOR RAMP DETAILS AT BATHHOUSE #231. SEE DRAWING A602 FOR RAMP DETAIL AT BATHHOUSE #322. SIM.
3. ALL EXPOSED WOOD FRAMING, ROOF DECKING, SIDING, AND TRIM (NON PRESSURE-TREATED) TO BE PAINTED. SEE SPECIFICATION SECTION 09 91 01.
4. SEE MECHANICAL DRAWINGS FOR DUCT/ PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.



1 BATHHOUSE #231 & #322 SECTION A  
1/2" = 1'-0"



2 BATHHOUSE #231 & #322 SECTION B  
1/2" = 1'-0"



3 BATHROOM #231 SECTION A1  
1/2" = 1'-0"

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**LaBella**

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Land Surveying: 017978  
Geological: 018750

**Palisades Region**  
Palisades Interstate Park Commission  
Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

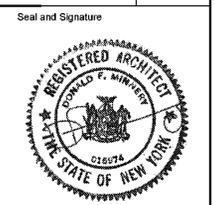
Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**



Sheet Title:  
**SECTIONS -  
BATHHOUSE  
#231 & #322**

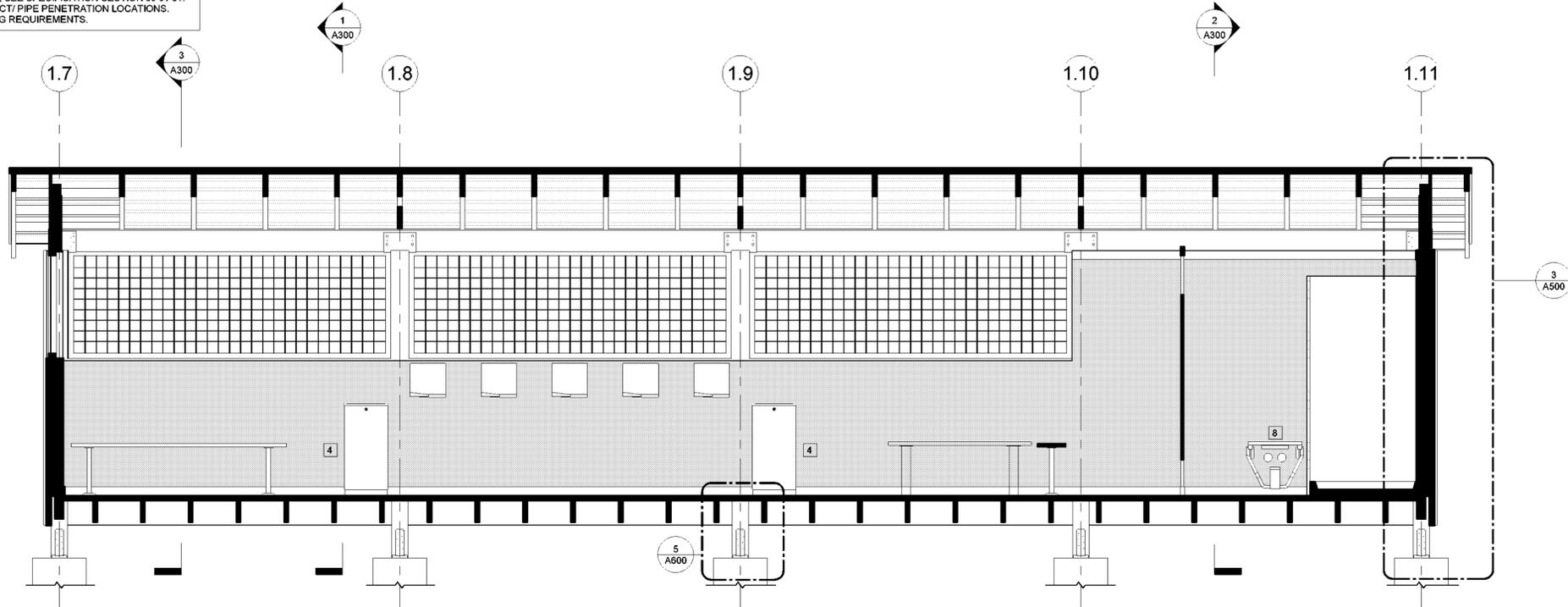
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**Bid Documents**

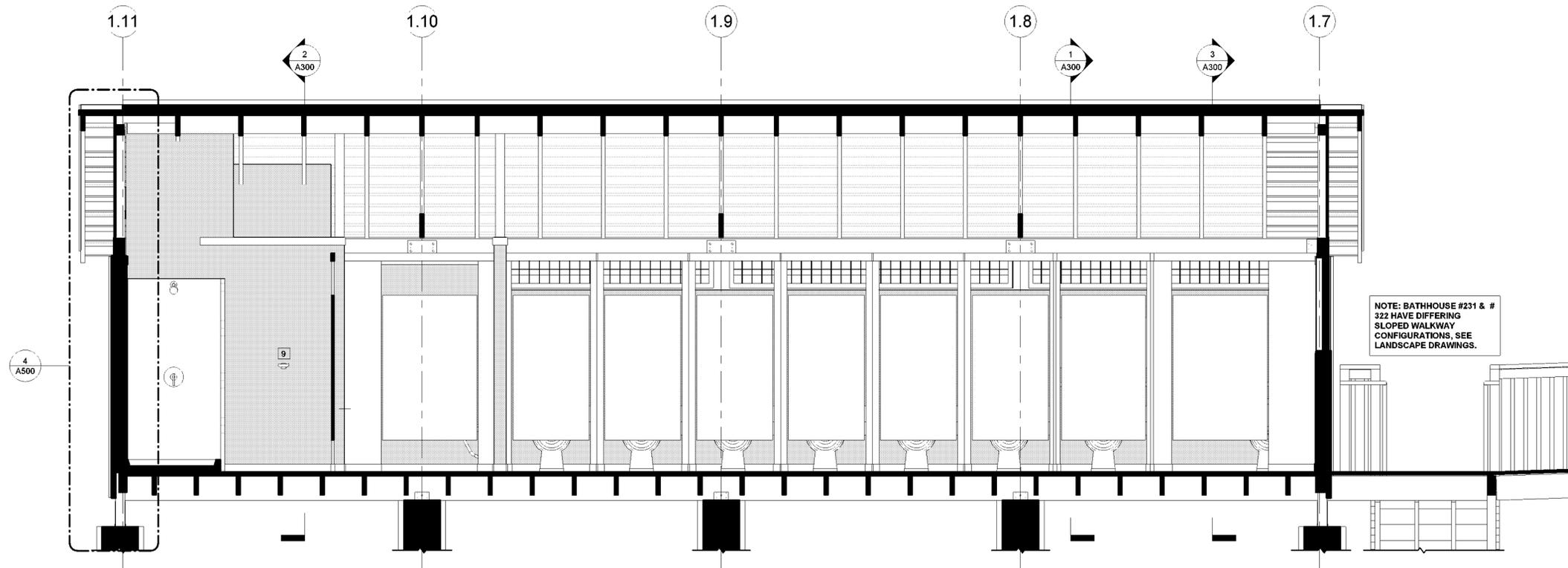
Project Number:  
**21059.23**

**BATHHOUSE #231 & #322 GENERAL NOTES:**

1. GRADE NOT SHOWN AS BATHHOUSE #231 & #322 HAVE DIFFERING SITE CONDITIONS. SEE LANDSCAPE DRAWINGS.
2. SEE DRAWING A601 FOR RAMP DETAILS AT BATHHOUSE #231. SEE DRAWING A602 FOR RAMP DETAIL AT BATHHOUSE #322. SIM.
3. ALL EXPOSED WOOD FRAMING, ROOF DECKING, SIDING, AND TRIM (NON PRESSURE-TREATED) TO BE PAINTED. SEE SPECIFICATION SECTION 09 91 01.
4. SEE MECHANICAL DRAWINGS FOR DUCT/PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.



1 BATHROOM #231 & #322 SECTION C  
1/2" = 1'-0"



NOTE: BATHHOUSE #231 & #322 HAVE DIFFERING SLOPED WALKWAY CONFIGURATIONS. SEE LANDSCAPE DRAWINGS.

2 BATHHOUSE #231 & #322 SECTION D  
1/2" = 1'-0"

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Geological: 018750

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Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature

Sheet Title:  
**SECTIONS -  
BATHHOUSE  
#231 & #322**

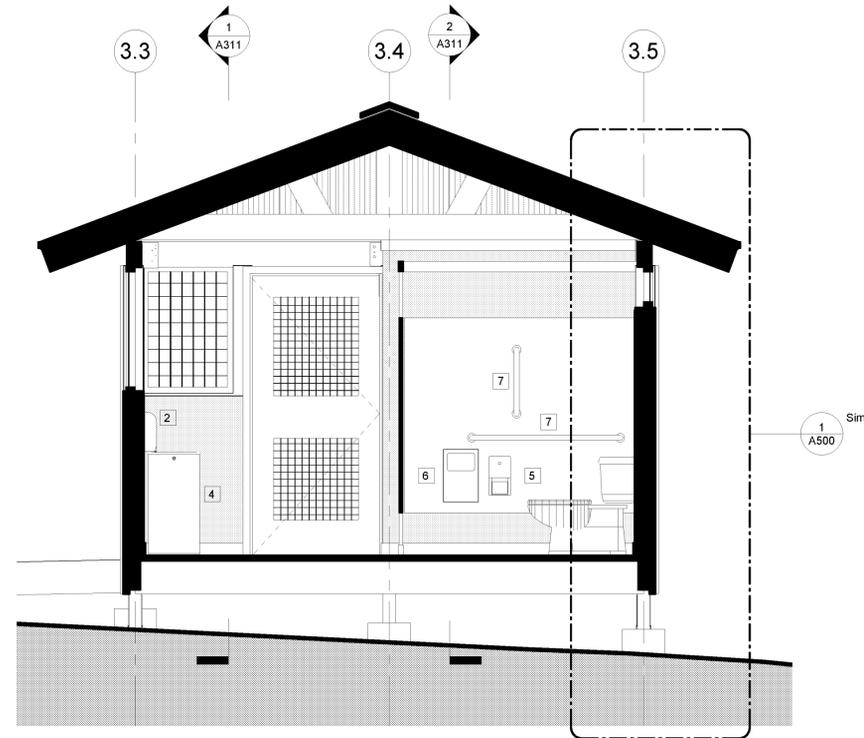
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**Bid Documents**

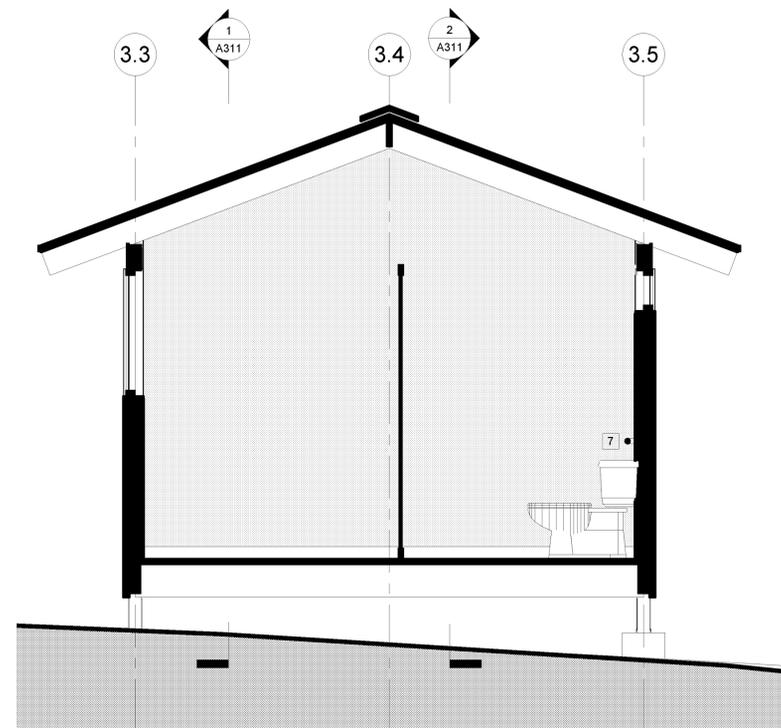
Project Number:  
**21059.23**

**LATRINE #427 GENERAL NOTES:**

1. SEE DRAWING A602 FOR RAMP DETAILS.
2. ALL EXPOSED WOOD FRAMING, ROOF DECKING, SIDING, AND TRIM (NON PRESSURE-TREATED) TO BE PAINTED. SEE SPECIFICATION SECTION 09 91 01.
3. SEE MECHANICAL DRAWINGS FOR DUCT/ PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.



① LATRINE #427 SECTION A  
1/2" = 1'-0"



② LATRINE #427 SECTION B  
1/2" = 1'-0"

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Geological: 018750

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**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature

**Sheet Title:**  
SECTIONS -  
LATRINE #427

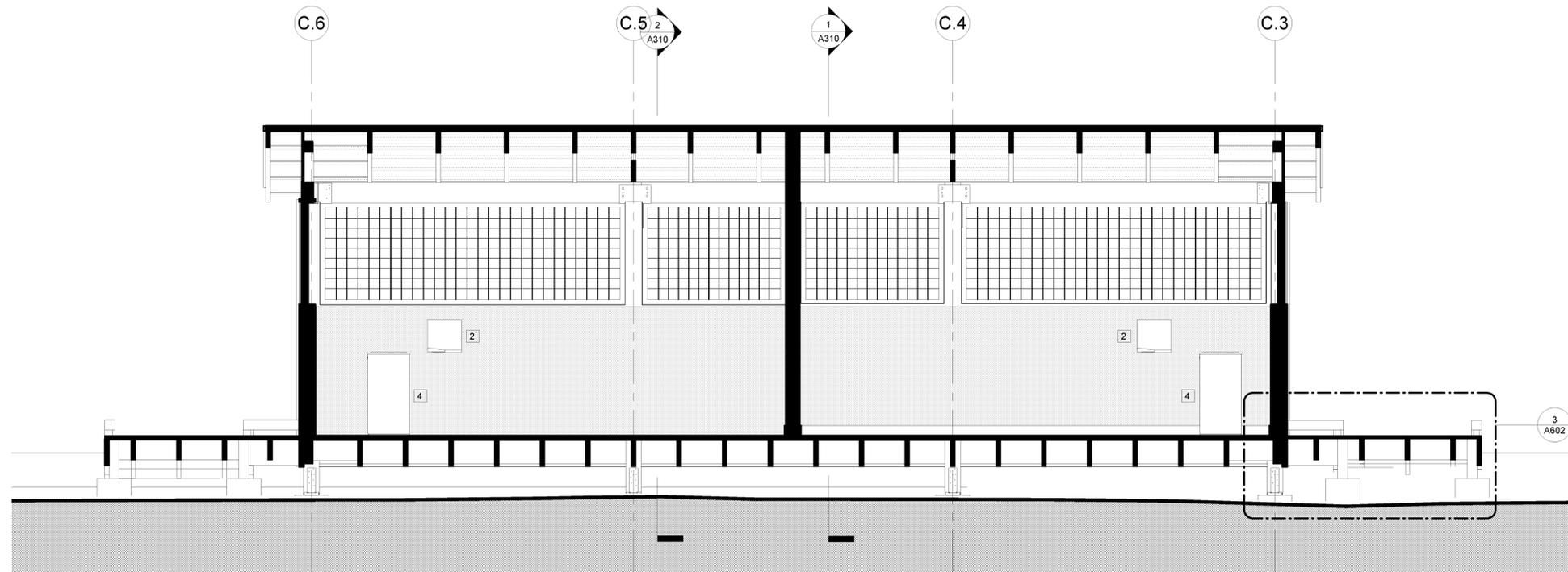
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**Bid Documents**

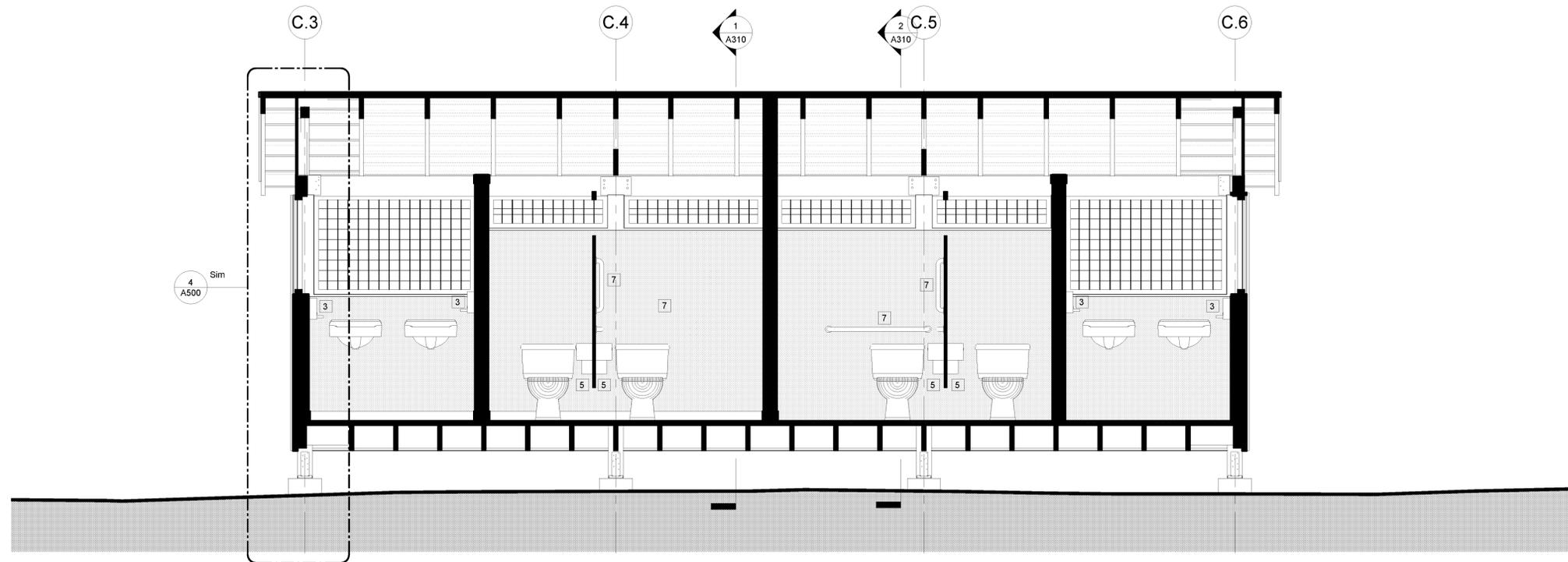
Project Number:  
**21059.23**

**LATRINE #427 GENERAL NOTES:**

1. SEE DRAWING A602 FOR RAMP DETAILS.
2. ALL EXPOSED WOOD FRAMING, ROOF DECKING, SIDING, AND TRIM (NON PRESSURE-TREATED) TO BE PAINTED. SEE SPECIFICATION SECTION 09 91 01.
3. SEE MECHANICAL DRAWINGS FOR DUCT/ PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.



1 LATRINE #427 SECTION C  
1/2" = 1'-0"



2 LATRINE #427 SECTION D  
1/2" = 1'-0"

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**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

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Design By:  
**LLH**

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**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

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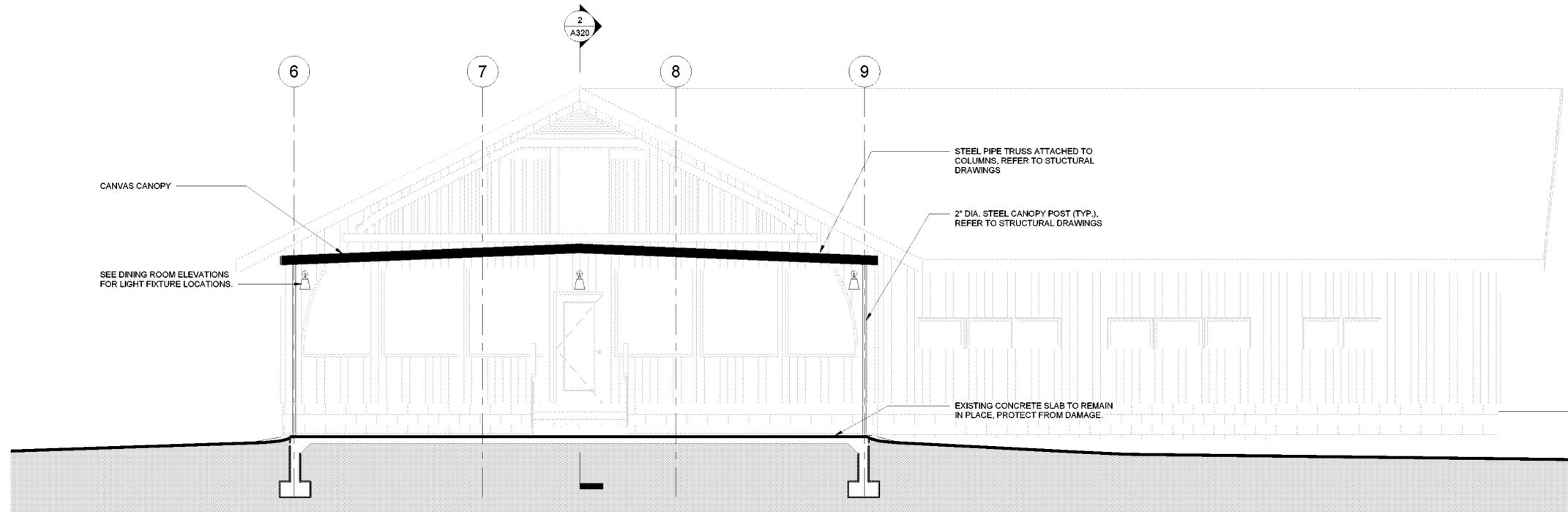
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LATRINE #427**

Drawing Number:  
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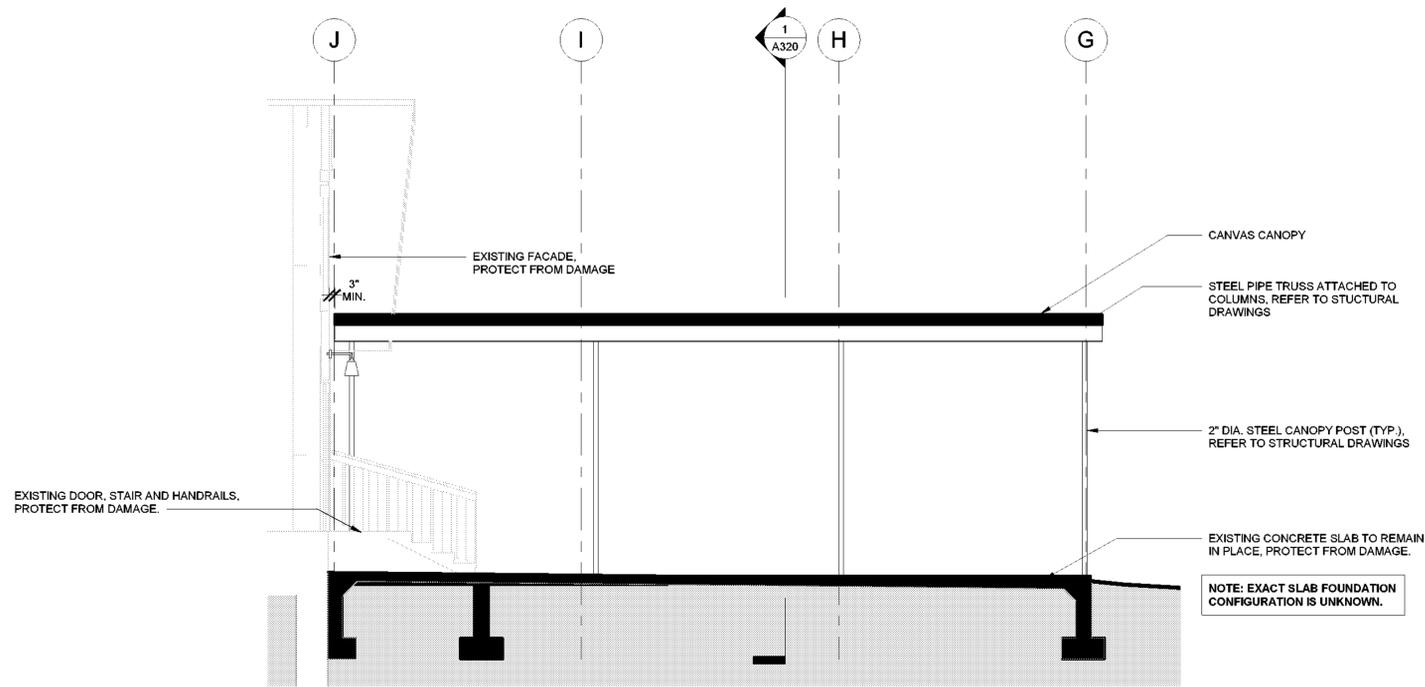
**Bid Documents**

Project Number:  
**21059.23**

- CANOPY GENERAL NOTES:**
1. PROTECT ALL EXISTING CONSTRUCTION FROM DAMAGE DURING CANOPY INSTALLATION.
  2. VERIFY ALL EXISTING DIMENSIONS IN FIELD PRIOR TO INSTALLATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
  3. SEE STRUCTURAL DRAWINGS FOR ROOF FRAMING PLAN AND FRAMING CONNECTION DETAILS.



① DINING HALL SECTION A  
1/4" = 1'-0"



② DINING HALL SECTION B  
1/4" = 1'-0"

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Geological: 018750

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**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

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**Sheet Title:**  
DINING HALL #404 SECTIONS

**Drawing Number:**  
**A320**

**Bid Documents**

Project Number:  
**21059.23**

**GENERAL NOTES:**

- ALL EXTERIOR SIDING AND TRIM SHALL BE SYNTHETIC (FIBER CEMENT), PRE-PRIMED AND FIELD-PAINTED, UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS SECTIONS 07 46 49 AND 09 91 01.
- SCREEN 1X TRIM SHALL BE SIZED PER DRAWINGS, AND FROM S4S CEDAR, GRADE C AND BETTER CLEAR.
- SEE SPECIFICATIONS SECTION 07 62 00 FOR SHEET METAL FLASHING AT EXTERIOR WALLS.
- SEAL ALL EXPOSED WOOD AT INTERIOR WITH SPAR MARINE VARNISH. SEE SPECIFICATIONS SECTION 09 91 23.
- SEE MECHANICAL DRAWINGS FOR DUCT/PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.
- COORDINATE FLOOR FRAMING WITH PLUMBING CONTRACTOR AND ADJUST FLOOR FRAMING AS REQUIRED FOR TOILET, SHOWER AND MOP SINK OUTLETS, PROVIDING HEADERS THE SAME SIZE AS FLOOR JOISTS WITH STEEL JOIST HANGERS AS REQUIRED. PROVIDE SOLID BLOCKING UNDER FLOOR DECK AND BETWEEN FLOOR JOISTS AT/ UNDER SUCH PLUMBING FIXTURES AS REQUIRED AND SIMILAR TO DETAIL 7/A600.

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 Land Surveying: 017878  
 Geological: 018750

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**Project Title:**  
 CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
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**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature

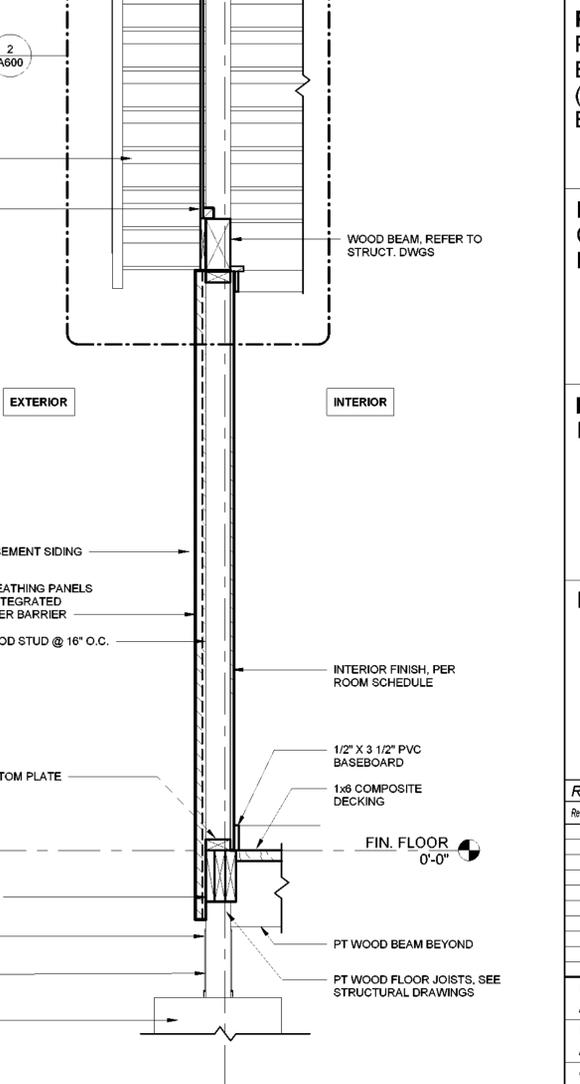
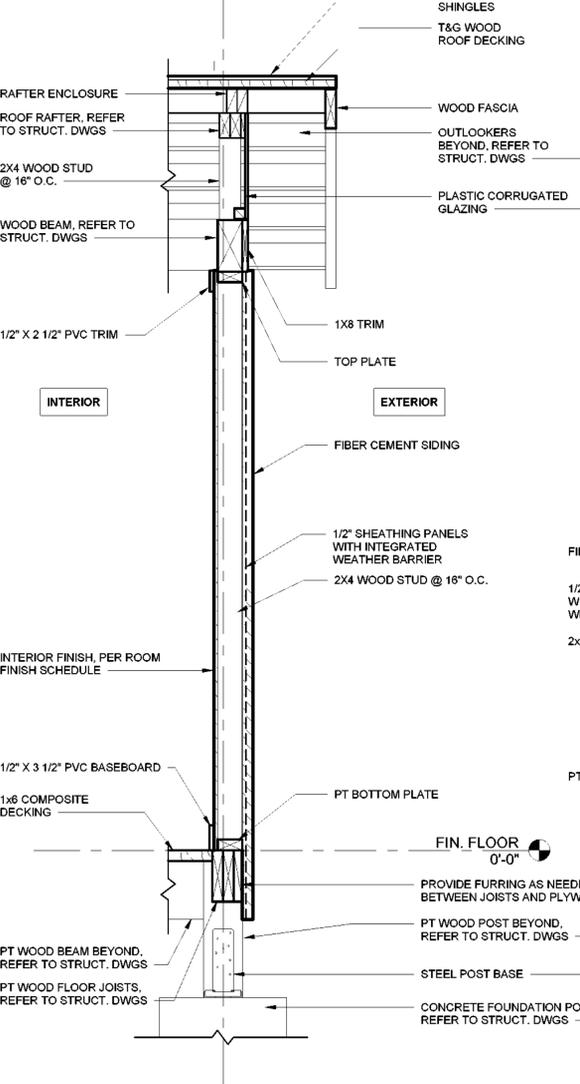
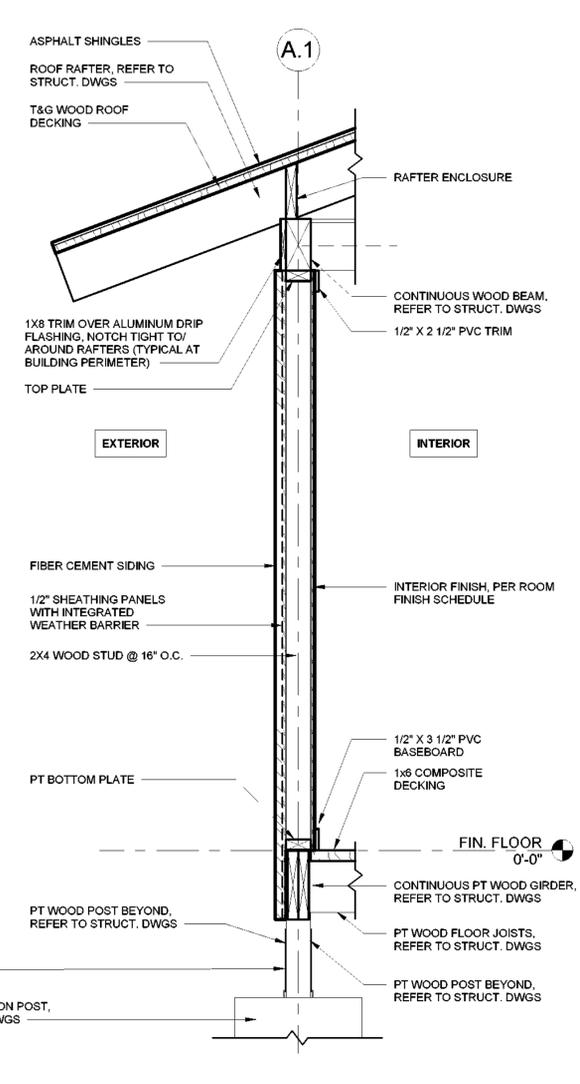
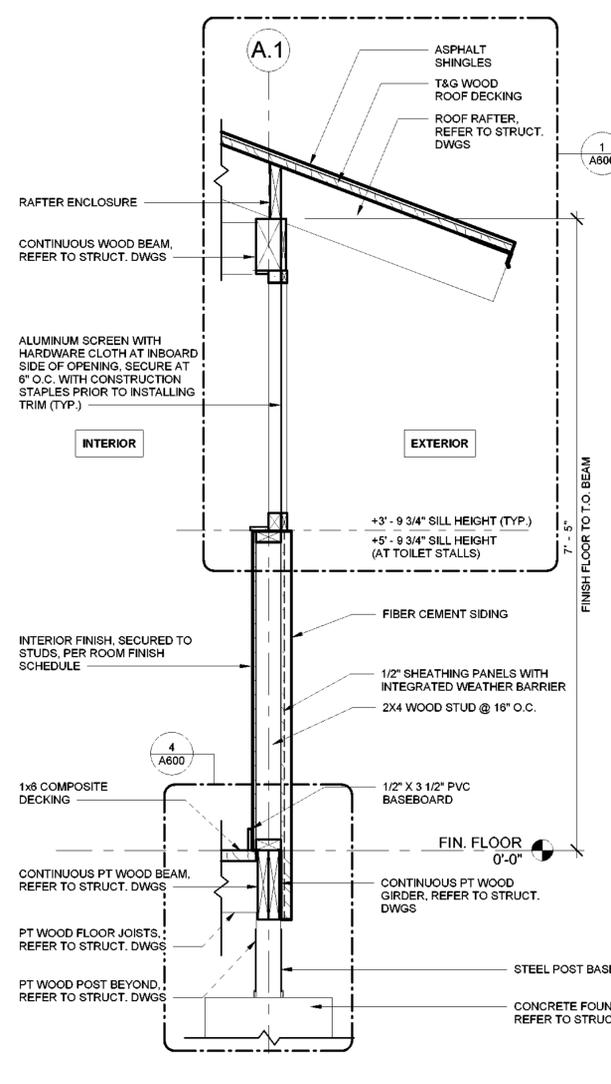


Sheet Title:  
**BATHHOUSE #231 & #322 WALL SECTIONS**

Drawing Number:  
**A500**

Bid Documents

Project Number:  
**21059.23**



1 BATHHOUSE #231 & 322 WALL SECTION A  
 1" = 1'-0"

2 BATHHOUSE #231 & 322 WALL SECTION B  
 1" = 1'-0"

3 BATHHOUSE #231 & 322 WALL SECTION C  
 1" = 1'-0"

4 BATHHOUSE #231 & 322 WALL SECTION D  
 1" = 1'-0"

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Geological 018750

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(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature

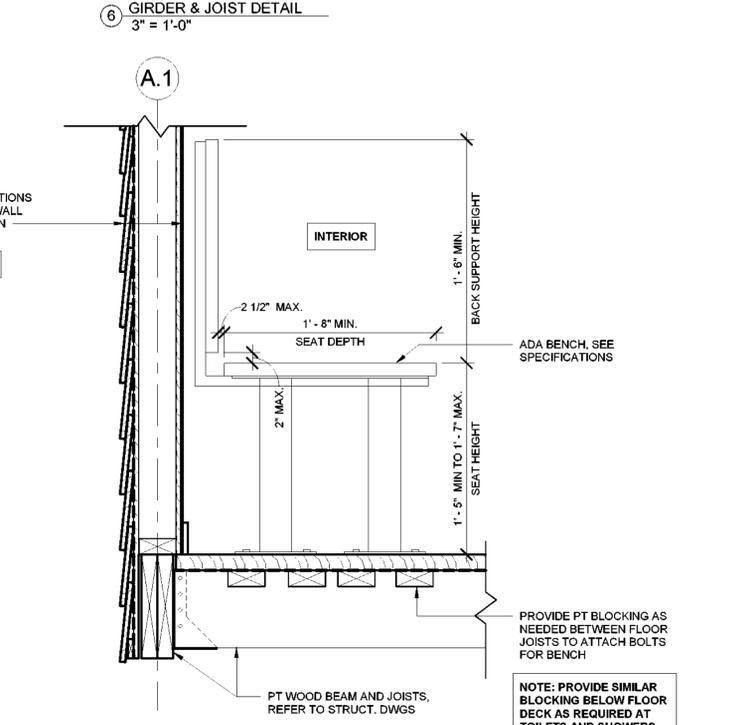
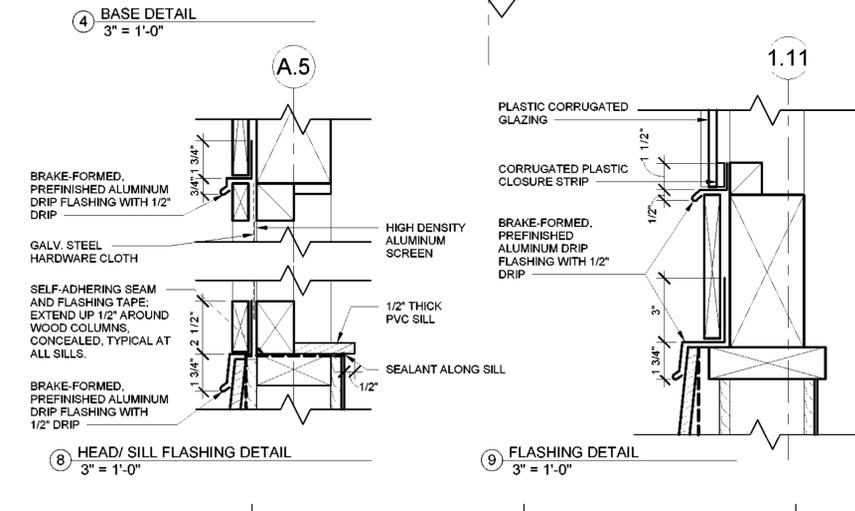
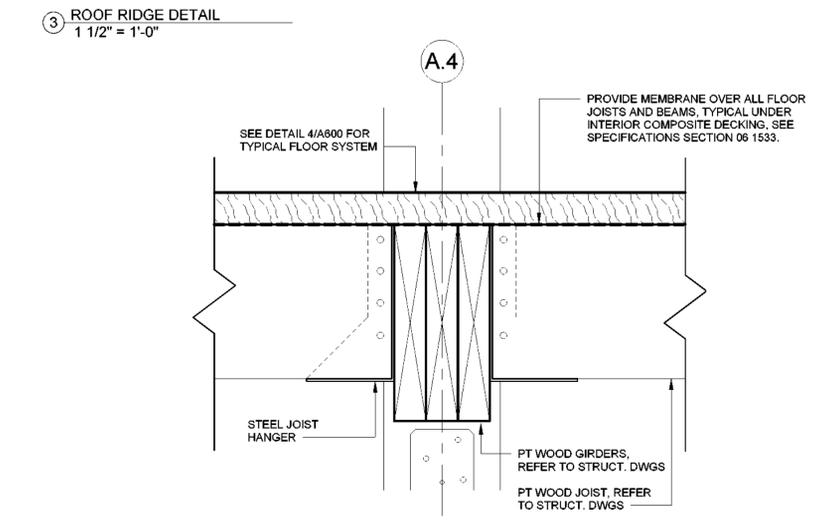
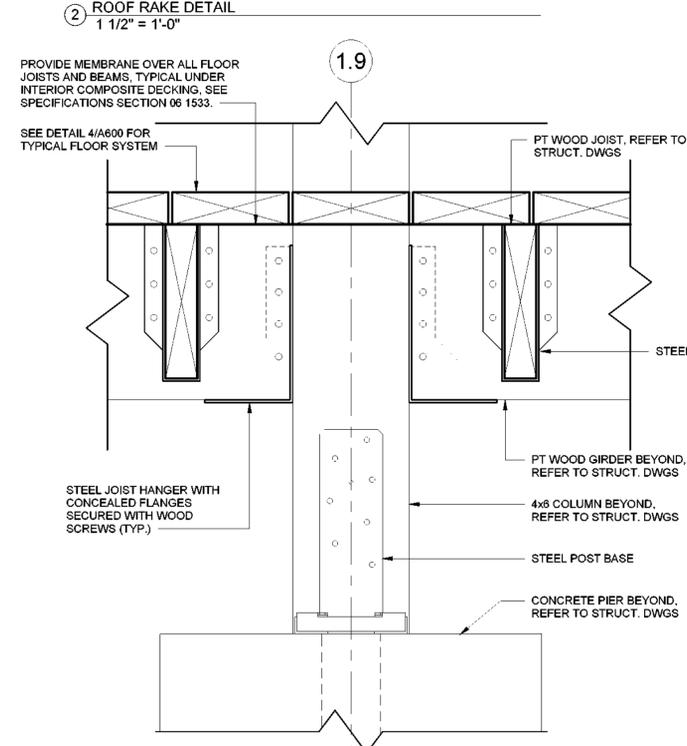
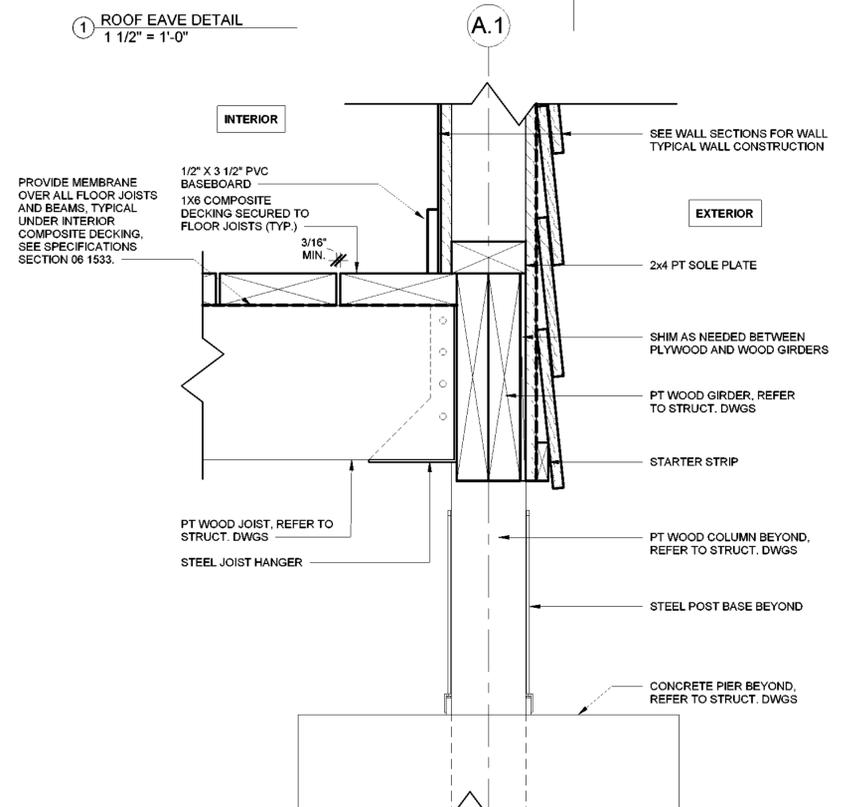
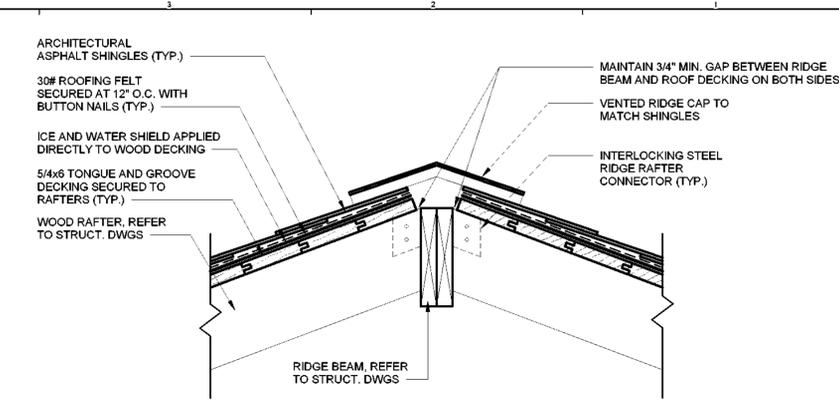
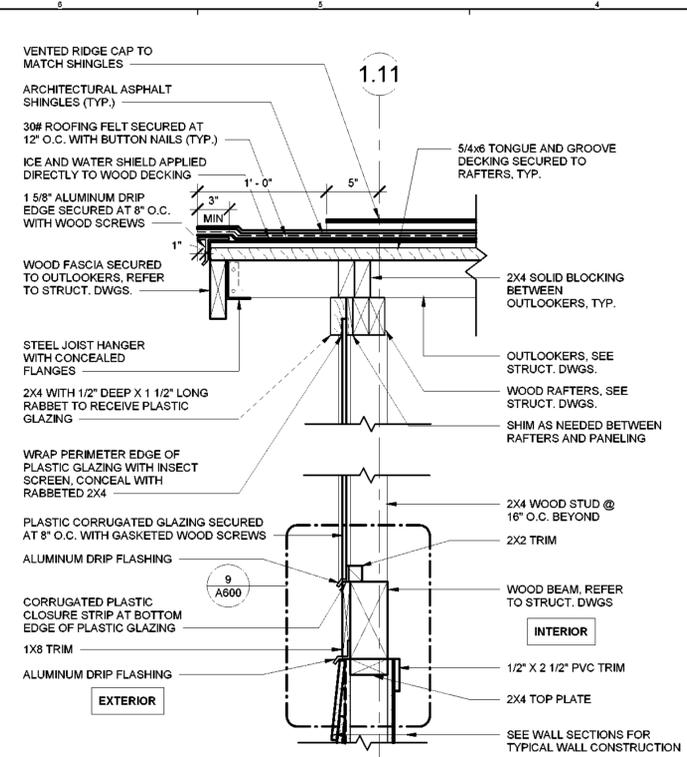
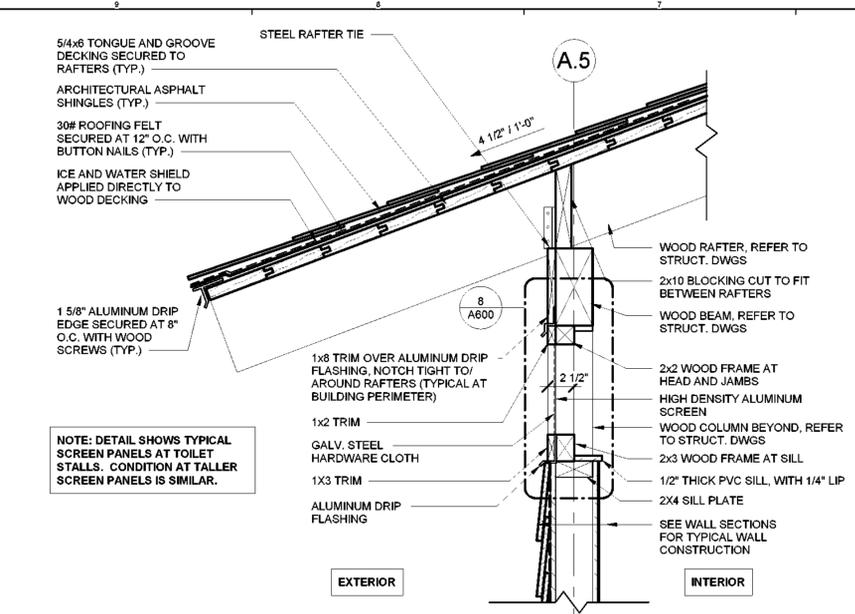


Sheet Title:  
**DETAILS -  
BATHHOUSE  
#231 & #322,  
LATRINE #427**

Drawing Number:  
**A600**

**Bid Documents**

Project Number:  
**21059.23**



- GENERAL NOTES:**
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  - SCREEN 1X TRIM SHALL BE SIZED PER DRAWINGS, AND FROM S45 CEDAR, GRADE C AND BETTER CLEAR.
  - SEE SPECIFICATIONS SECTION 07 62 00 FOR SHEET METAL FLASHING AT EXTERIOR WALLS.
  - SEAL ALL EXPOSED WOOD AT INTERIOR WITH SPAR MARINE VARNISH. SEE SPECIFICATIONS SECTION 09 91 23.
  - SEE MECHANICAL DRAWINGS FOR DUCT/ PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.
  - COORDINATE FLOOR FRAMING WITH PLUMBING CONTRACTOR AND ADJUST FLOOR FRAMING AS REQUIRED FOR TOILET, SHOWER AND MOP SINK OUTLETS. PROVIDING HEADERS THE SAME SIZE AS FLOOR JOISTS WITH STEEL JOIST HANGERS AS REQUIRED. PROVIDE SOLID BLOCKING UNDER FLOOR DECK AND BETWEEN FLOOR JOISTS AT/ UNDER SUCH PLUMBING FIXTURES AS REQUIRED AND SIMILAR TO DETAIL 7/A600.

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Land Surveying 017878  
Geological 018750

**Palisades Region**  
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Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**LLH, RDD**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

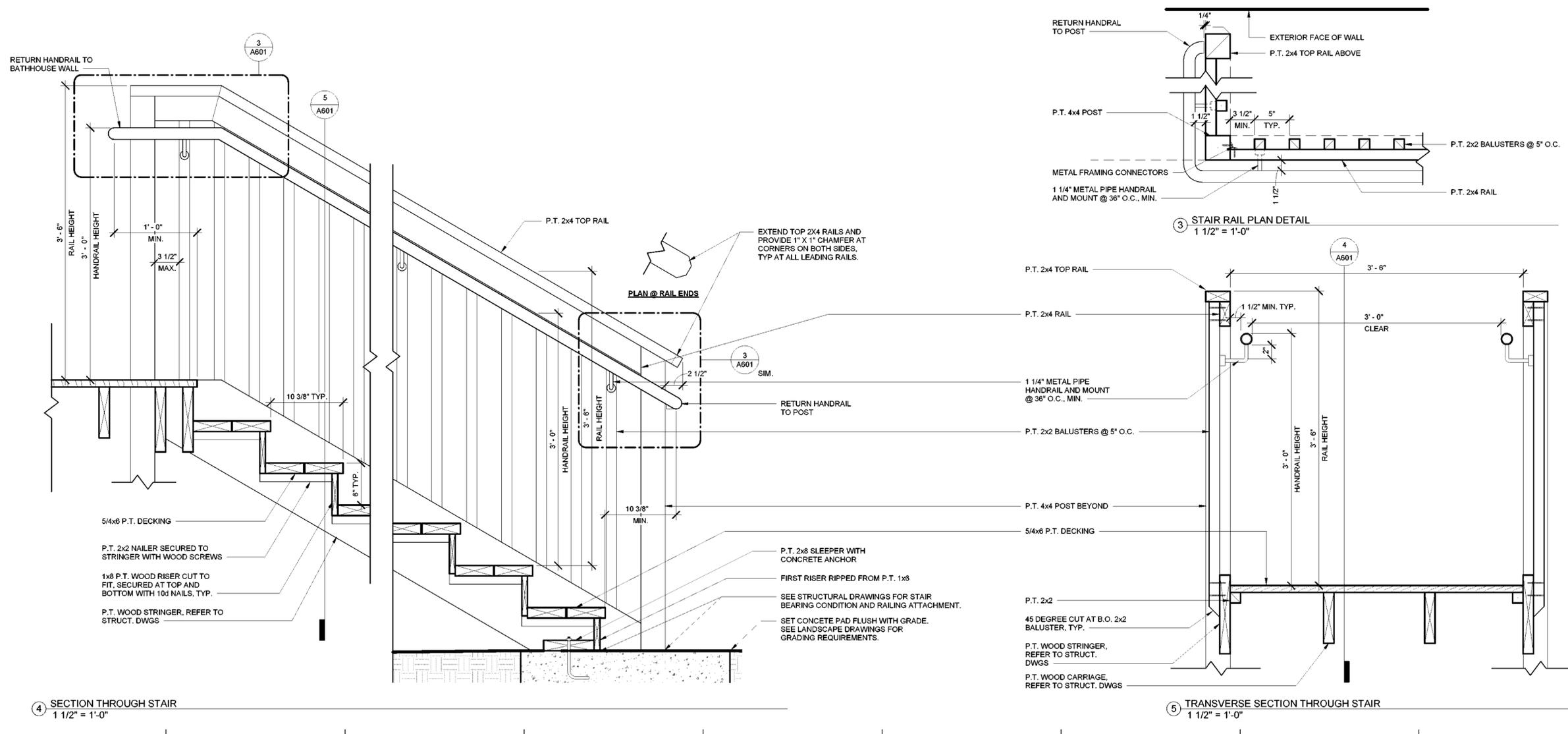
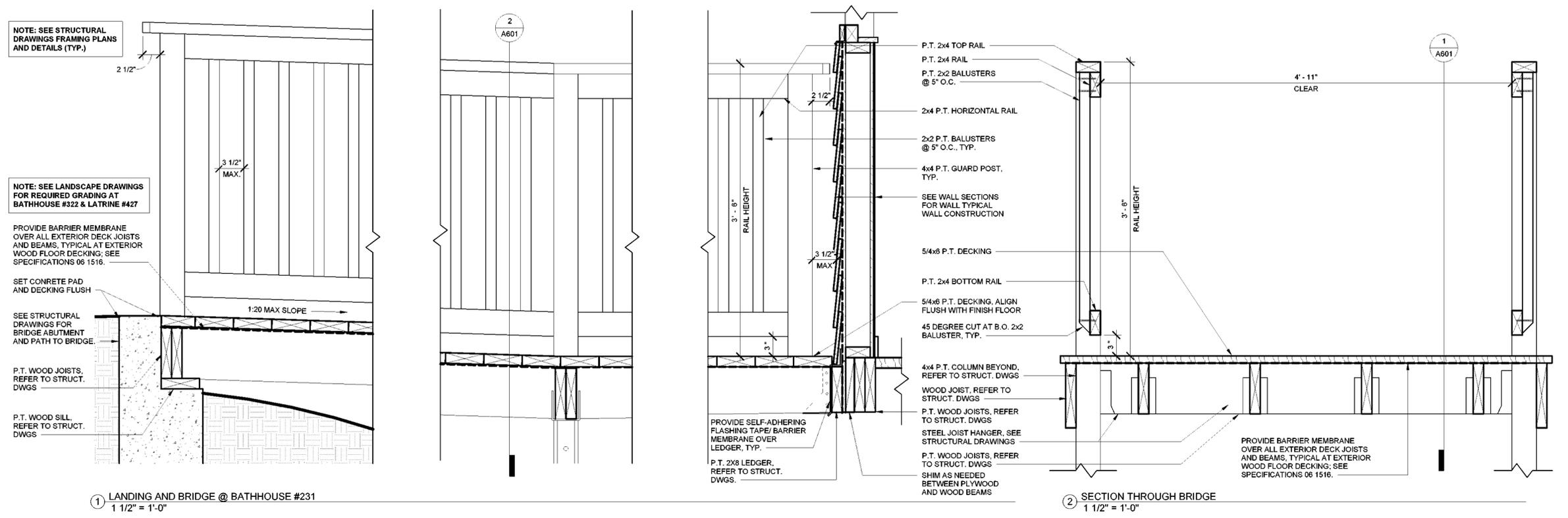
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Sheet Title:  
**DETAILS -  
BATHHOUSE  
#231**

Drawing Number:  
**A601**

**Bid Documents**  
Project Number:  
**21059.23**



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Geological: 018130

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**Project Location:**  
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Rev No	Description	Date

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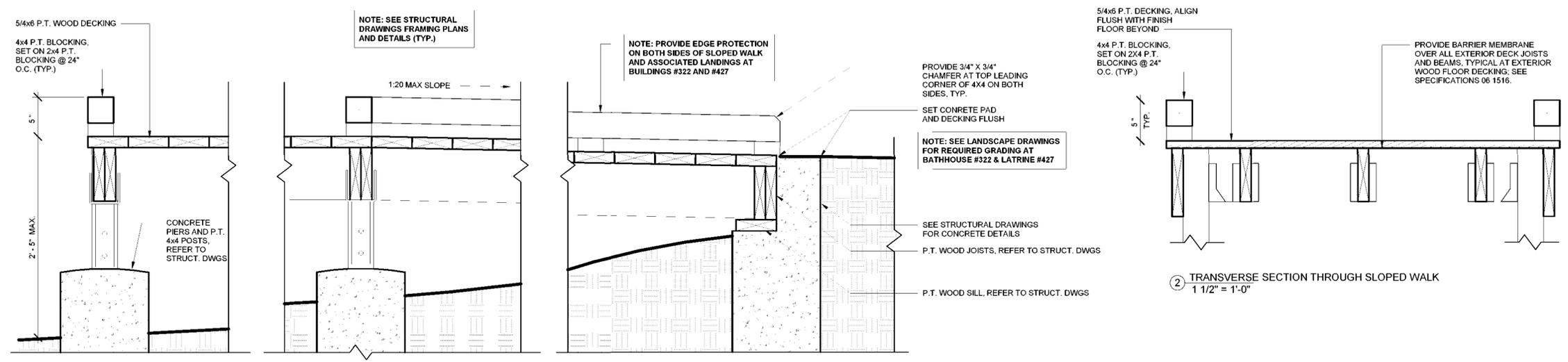


Sheet Title:  
**DETAILS -  
BATHHOUSE  
#322 & LATRINE  
#427**

Drawing Number:  
**A602**

**Bid Documents**

Project Number:  
**21059.23**



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Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**



Sheet Title:  
**BATHHOUSE #231 & #322  
INTERIOR  
ELEVATIONS &  
FINISH  
SCHEDULES  
DIA DOCUMENTS**

Drawing Number:  
**A700**

Project Number:  
**21059.23**

**Room Finish Schedule - Bathhouse #231 & #322**

Number	Name	Wall Material	Wall Finish	Base Material	Base Finish	Floor Material	Floor Finish	Ceiling Material	Ceiling Finish																																						
101	BOYS RESTROOM #231	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN																																						
102	SHOWER 1	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN																																						
103	SHOWER 2	FRP	N/A	PVC	N/A	CWD	N/A </tr <tr> <td>104</td> <td>SHOWER 3</td> <td>FRP</td> <td>N/A</td> <td>PVC</td> <td>N/A</td> <td>CWD</td> <td>N/A</td> <td>WD</td> <td>VRN</td> </tr> <tr> <td>105</td> <td>ADA SHOWER</td> <td>FRP</td> <td>N/A</td> <td>PVC</td> <td>N/A</td> <td>CWD</td> <td>N/A</td> <td>WD</td> <td>VRN</td> </tr> <tr> <td>106</td> <td>MECHANICAL</td> <td>FRP</td> <td>N/A</td> <td>PVC</td> <td>N/A</td> <td>CWD</td> <td>N/A</td> <td>WD</td> <td>VRN</td> </tr> <tr> <td>107</td> <td>GIRLS RESTROOM #322</td> <td>FRP</td> <td>N/A</td> <td>PVC</td> <td>N/A</td> <td>CWD</td> <td>N/A</td> <td>WD</td> <td>VRN</td> </tr>	104	SHOWER 3	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN	105	ADA SHOWER	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN	106	MECHANICAL	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN	107	GIRLS RESTROOM #322	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN
104	SHOWER 3	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN																																						
105	ADA SHOWER	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN																																						
106	MECHANICAL	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN																																						
107	GIRLS RESTROOM #322	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN																																						

**GENERAL NOTES:**

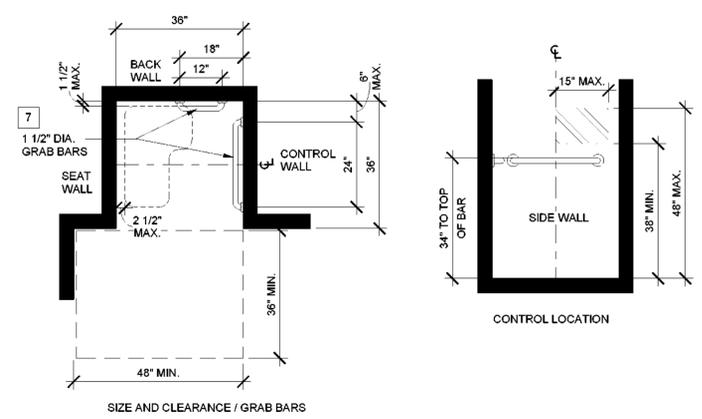
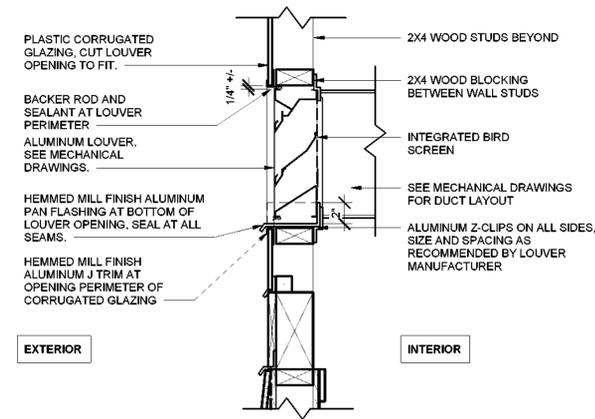
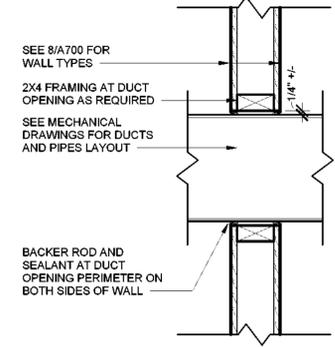
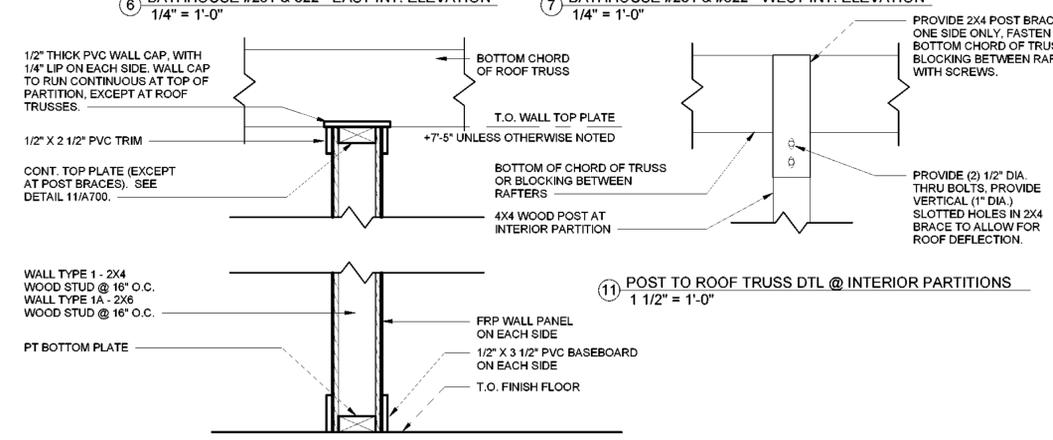
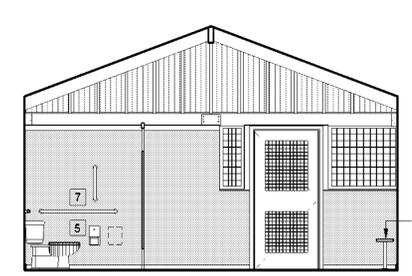
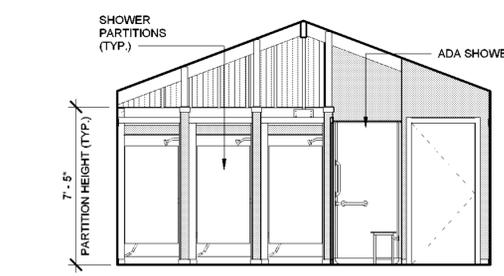
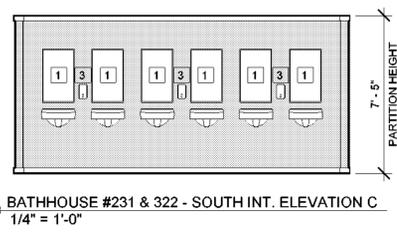
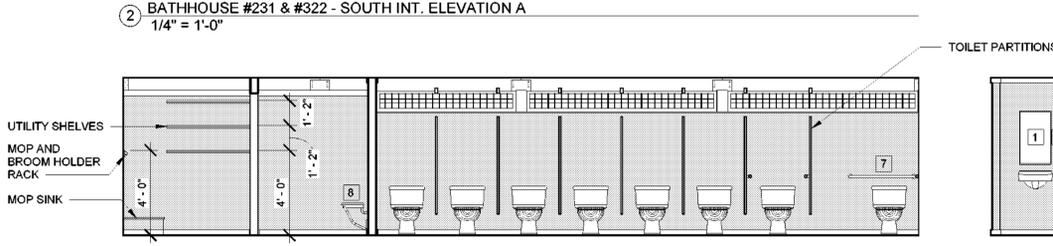
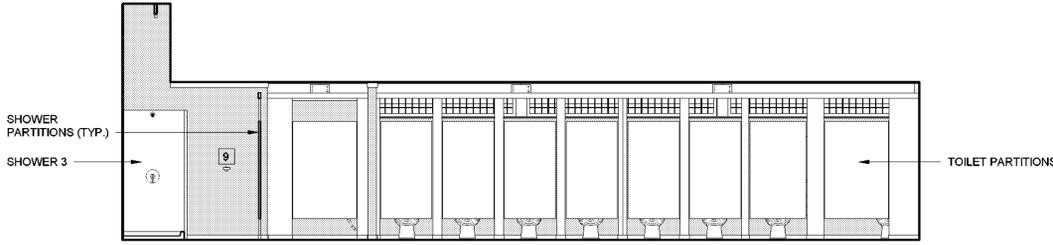
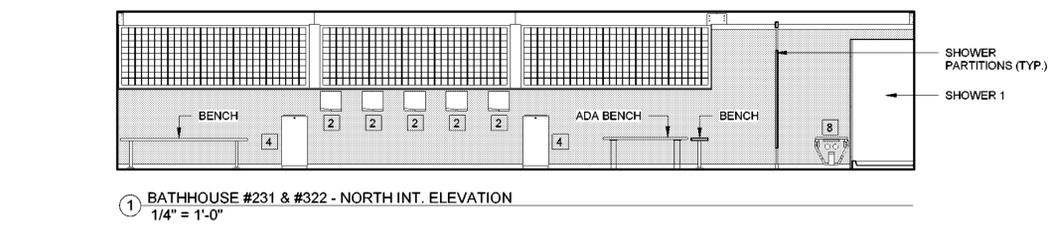
- ALL EXTERIOR SIDING AND TRIM SHALL BE SYNTHETIC (FIBER CEMENT), PRE-PRIMED AND FIELD-PAINTED, UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS SECTIONS 07 46 49 AND 09 91 01.
- SCREEN 1 X TRIM SHALL BE SIZED PER DRAWINGS, AND FROM S4S CEDAR, GRADE C AND BETTER CLEAR.
- SEE SPECIFICATIONS SECTION 07 62 00 FOR SHEET METAL FLASHING AT EXTERIOR WALLS.
- SEAL ALL EXPOSED WOOD AT INTERIOR WITH SPAR MARINE VARNISH. SEE SPECIFICATIONS SECTION 09 91 23.
- SEE MECHANICAL DRAWINGS FOR DUCT/ PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.
- COORDINATE FLOOR FRAMING WITH PLUMBING CONTRACTOR AND ADJUST FLOOR FRAMING AS REQUIRED FOR TOILET, SHOWER AND MOP SINK OUTLETS, PROVIDING HEADERS THE SAME SIZE AS FLOOR JOISTS WITH STEEL JOIST HANGERS AS REQUIRED. PROVIDE SOLID BLOCKING UNDER FLOOR DECK AND BETWEEN FLOOR JOISTS AT/ UNDER SUCH PLUMBING FIXTURES AS REQUIRED AND SIMILAR TO DETAIL 7/A600.

**FINISH LEGEND**

CWD	COMPOSITE WOOD DECKING
FG	FIBERGLASS
FRP	FIBER REINFORCED PANEL
N/A	NOT APPLICABLE
PT	PAINT
PVC	POLYVINYL CHLORIDE
VRN	VARNISH
WD	WOOD

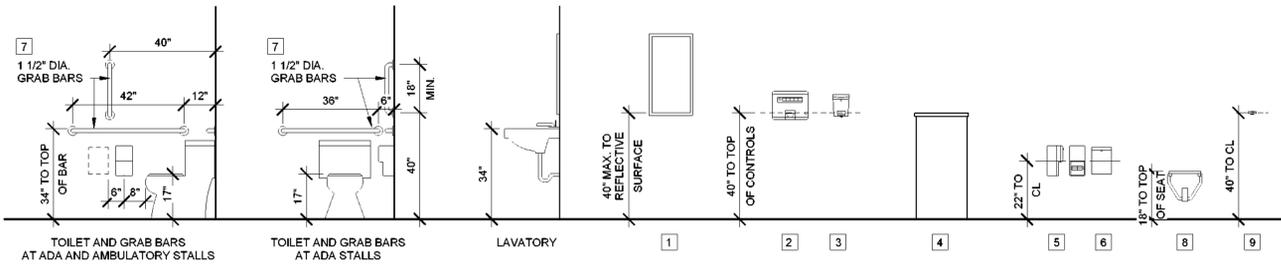
**FINISH MATERIAL LEGEND**

	CORRUGATED FIBERGLASS PANELING
	COMPOSITE WOOD AND FIBER REINFORCED PANEL (FRP)



**ACCESSORIES LEGEND**

1	MIRROR
2	PAPER TOWEL DISPENSER, FURNISHED BY CAMPGROUND, INSTALLED BY G.C.
3	SOAP DISPENSER, FURNISHED BY CAMPGROUND, INSTALLED BY G.C.
4	TRASH CAN, PROVIDED BY OWNER
5	TOILET PAPER DISPENSER
6	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL
7	GRAB BAR (REF. DIMS IN ELEVATION)
8	FOLD-DOWN SHOWER SEAT
9	ROBE HOOK



Room Finish Schedule - Latrine #427									
Number	Name	Wall Material	Wall Finish	Base Material	Base Finish	Floor Material	Floor Finish	Ceiling Material	Ceiling Finish
109	GIRLS RESTROOM #427	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN
110	BOYS RESTROOM #427	FRP	N/A	PVC	N/A	CWD	N/A	WD	VRN

**GENERAL NOTES:**

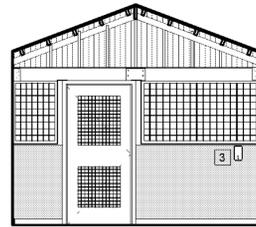
- ALL EXTERIOR SIDING AND TRIM SHALL BE SYNTHETIC (FIBER CEMENT), PRE-PRIMED AND FIELD-PAINTED, UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS SECTIONS 07 46 49 AND 09 91 01.
- SCREEN 1X TRIM SHALL BE SIZED PER DRAWINGS, AND FROM S4S CEDAR, GRADE C AND BETTER CLEAR.
- SEE SPECIFICATIONS SECTION 07 82 00 FOR SHEET METAL FLASHING AT EXTERIOR WALLS.
- SEAL ALL EXPOSED WOOD AT INTERIOR WITH SPAR MARINE VARNISH. SEE SPECIFICATIONS SECTION 09 91 23.
- SEE MECHANICAL DRAWINGS FOR DUCT/PIPE PENETRATION LOCATIONS. SEE DETAIL 9/A700 FOR WALL OPENING REQUIREMENTS.
- COORDINATE FLOOR FRAMING WITH PLUMBING CONTRACTOR AND ADJUST FLOOR FRAMING AS REQUIRED FOR TOILET, SHOWER AND MOP SINK OUTLETS, PROVIDING HEADERS THE SAME SIZE AS FLOOR JOISTS WITH STEEL JOIST HANGERS AS REQUIRED. PROVIDE SOLID BLOCKING UNDER FLOOR DECK AND BETWEEN FLOOR JOISTS AT/ UNDER SUCH PLUMBING FIXTURES AS REQUIRED AND SIMILAR TO DETAIL 7/A600.

**FINISH LEGEND**

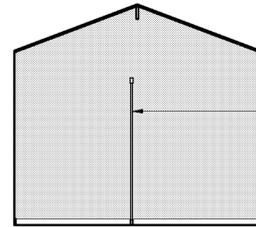
CWD	COMPOSITE WOOD DECKING
FG	FIBERGLASS
FRP	FIBER REINFORCED PANEL
N/A	NOT APPLICABLE
PT	PAINT
PVC	POLYVINYL CHLORIDE
VRN	VARNISH
WD	WOOD

**FINISH MATERIAL LEGEND**

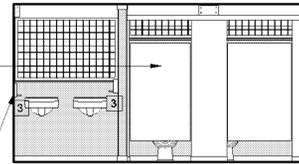
	CORRUGATED FIBERGLASS PANELING
	COMPOSITE WOOD AND FIBER REINFORCED PANEL (FRP)



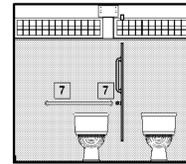
1 LATRINE #427 - NORTH INT. ELEVATION A  
1/4" = 1'-0"



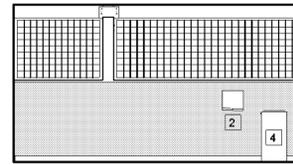
2 LATRINE #427 - SOUTH INT. ELEVATION A  
1/4" = 1'-0"



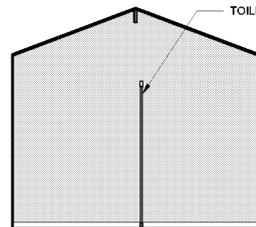
3 LATRINE #427 - EAST INT. ELEVATION A  
1/4" = 1'-0"



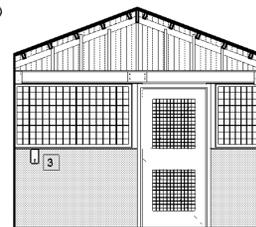
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1/4" = 1'-0"



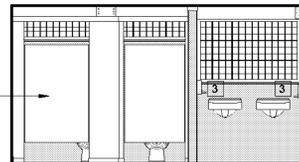
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1/4" = 1'-0"



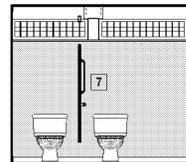
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1/4" = 1'-0"



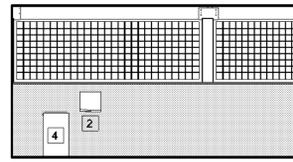
7 LATRINE #427 - SOUTH INT. ELEVATION B  
1/4" = 1'-0"



8 LATRINE #427 - EAST INT. ELEVATION B  
1/4" = 1'-0"



9 LATRINE #427 - EAST INT. ELEVATION B-B  
1/4" = 1'-0"



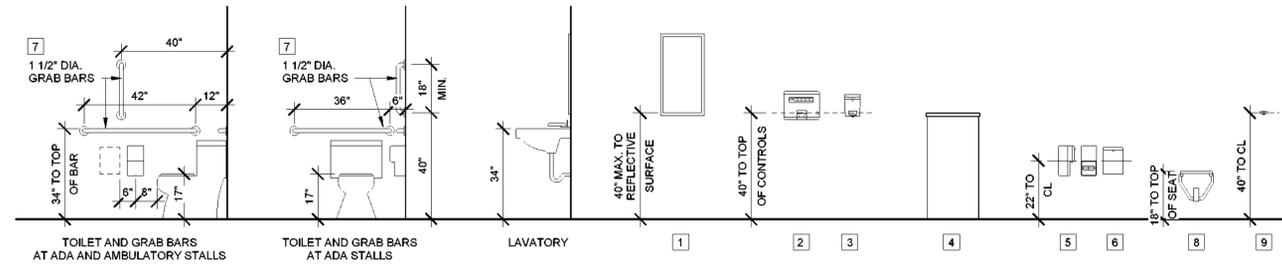
10 LATRINE #427 - WEST INT. ELEVATION B  
1/4" = 1'-0"

TOILET PARTITIONS (TYP.)  
MOUNT SOAP DISPENSER BELOW SILL WHERE SHOWN

TOILET PARTITIONS (TYP.)

**ACCESSORIES LEGEND**

1	MIRROR
2	PAPER TOWEL DISPENSER, FURNISHED BY CAMPGROUND, INSTALLED BY G.C.
3	SOAP DISPENSER, FURNISHED BY CAMPGROUND, INSTALLED BY G.C.
4	TRASH CAN, PROVIDED BY OWNER
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7	GRAB BAR (REF. DIMS IN ELEVATION)
8	FOLD-DOWN SHOWER SEAT
9	ROBE HOOK



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21 Congress Street, Suite 201  
Saratoga Springs, NY 12866

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Landscape Architects, Architects  
Engineers, and Planners, P.C.

**Surveyor/ Structural/ MEP Engineer:**  
LaBella Associates  
105 N. Tioga Street, Suite 200  
Ithaca, NY 14850

**LaBella**

Certificate of Authorization Number:  
Professional Engineering: 018281  
Land Surveying: 017876  
Geological: 018750

**Palisades Region**  
Palisades Interstate Park Commission  
Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature

Sheet Title:  
**LATRINE #427 INTERIOR ELEVATIONS**

Drawing Number:  
**A701**

**Bid Documents**

Project Number:  
**21059.23**

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21 Congress Street, Suite 201  
Saratoga Springs, NY 12866

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Ithaca, NY 14850

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CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

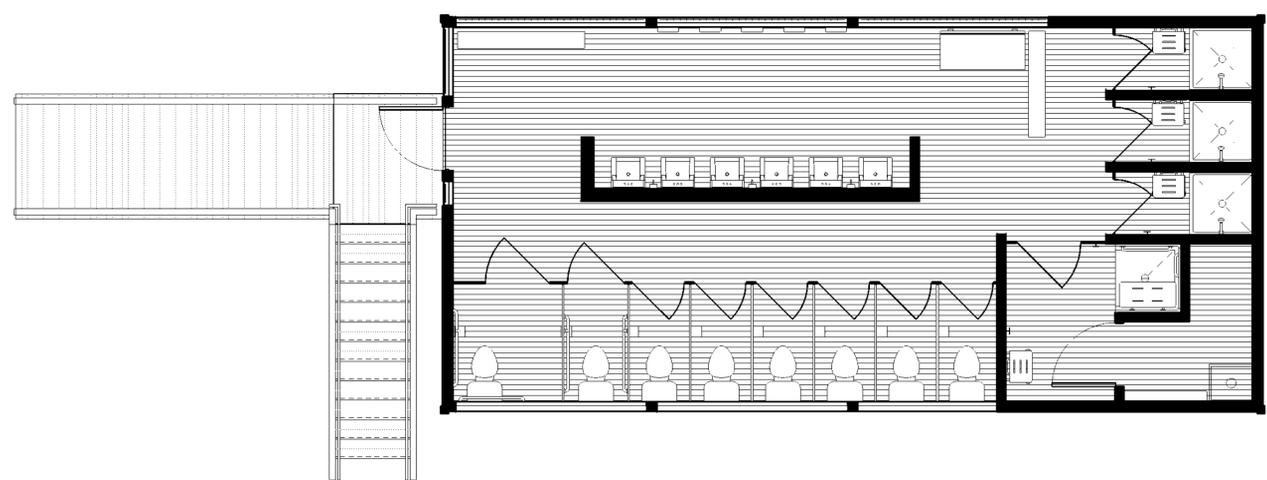
Rev No	Description	Date

Drawn By: <b>KET, LLH</b>	Seal and Signature 
Design By: <b>LLH</b>	
Checked By: <b>CTS</b>	
Approved By: <b>CTS</b>	
Date: <b>3/16/23</b>	

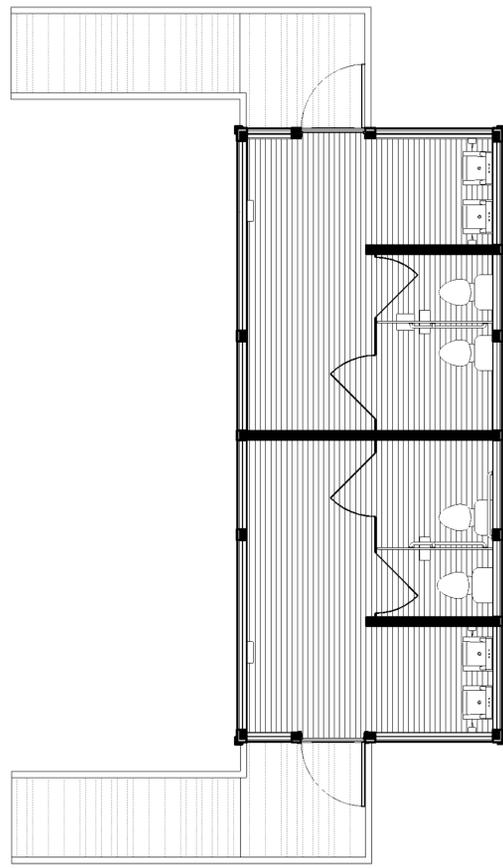
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<b>Bid Documents</b>	
Project Number: <b>21059.23</b>	

**FINISH MATERIAL LEGEND**

	COMPOSITE WOOD DECKING
	PT WOOD DECKING



① FINISH PLAN - BATHHOUSE #231 & #322  
1/4" = 1'-0"



② FINISH PLAN - LATRINE BUILDING #427  
1/4" = 1'-0"

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Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No.	Description	Date

Drawn By:  
**KET, LLH**

Design By:  
**LLH**

Checked By:  
**CTS**

Approved By:  
**CTS**

Date:  
**3/16/23**

Seal and Signature



Sheet Title:  
**DOORS AND WINDOWS**

Drawing Number:  
**A800**

**Bid Documents**

Project Number:  
**21059.23**

**Door and Frame Schedule**

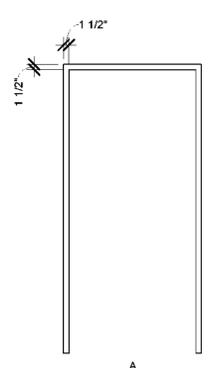
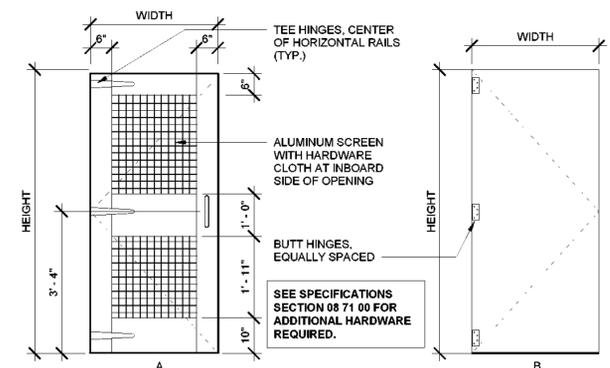
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		Width	Height	Elev.	Material	Door Finish	Frame Type	Material	Frame Finish	Head		Jamb	Sill
1	BOYS RESTROOM #231	3' - 0"	6' - 8"	A	WD	PT	A	WD	PT	5/A800	4/A800	5/A800	01
2	BOYS RESTROOM #427	3' - 0"	6' - 8"	A	WD	PT	A	WD	PT	5/A800	4/A800	5/A800	01
3	GIRLS RESTROOM #427	3' - 0"	6' - 8"	A	WD	PT	A	WD	PT	5/A800	4/A800	5/A800	01
4	ADA SHOWER	3' - 0"	6' - 8"	B	WD	VRN	A	WD	VRN	7/A800	6/A800	7/A800	02
5	GIRLS RESTROOM #322	3' - 0"	6' - 8"	A	WD	PT	A	WD	PT	5/A800	4/A800	5/A800	01

**FINISH LEGEND**

CWD	COMPOSITE WOOD DECKING
FG	FIBERGLASS
FRP	FIBER REINFORCED PANEL
N/A	NOT APPLICABLE
PT	PAINT
PVC	POLYVINYL CHLORIDE
VRN	VARNISH
WD	WOOD

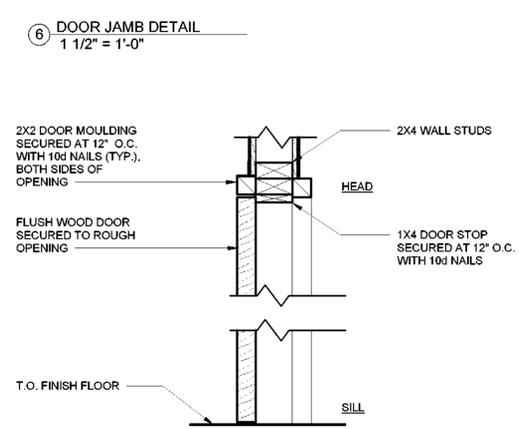
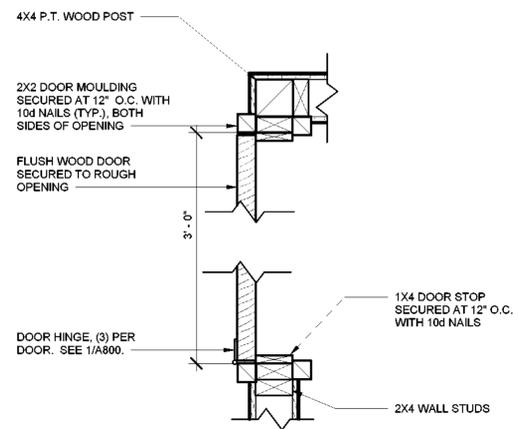
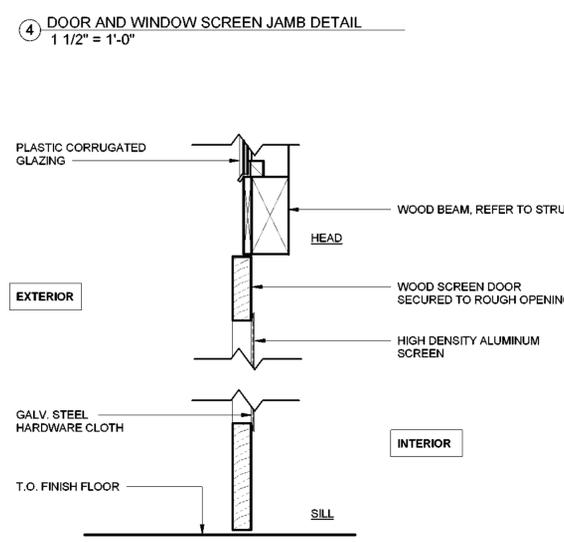
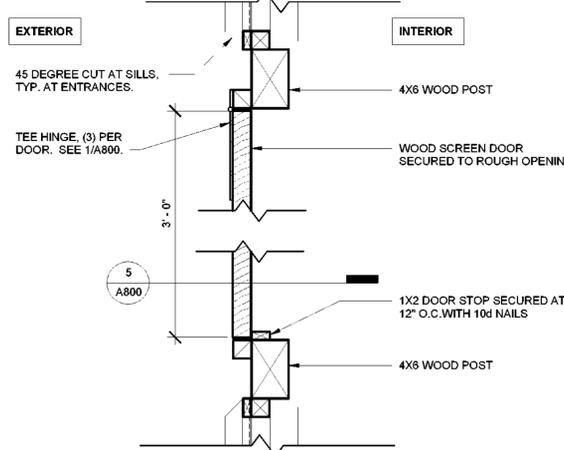
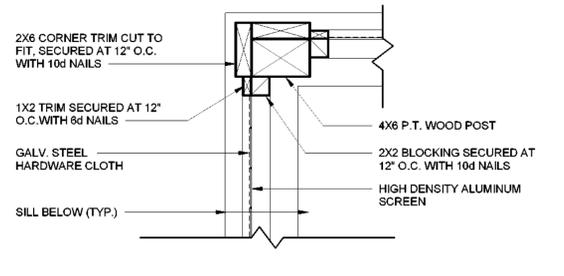
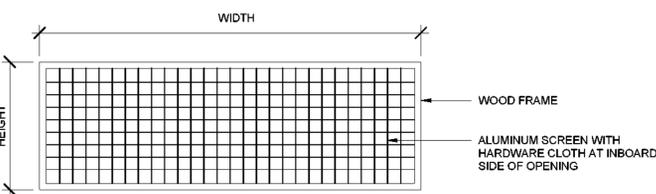
**DOOR AND WINDOW NOTES:**

- CONTRACTOR SHALL FIELD VERIFY AND COORDINATE ALL DIMENSIONS PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- PAINT ALL EXPOSED EXTERIOR WOOD TRIM AT DOORS AND WINDOWS. SEAL ALL EXPOSED INTERIOR WOOD TRIM WITH VARNISH.
- REFER TO SPECIFICATIONS SECTION 08 71 00 FOR DOOR HARDWARE SCHEDULE.



**Window Schedule**

Mark	Width	Height	Sill	Jamb	Head
A	9' - 0"	3' - 0"	1/A600	4/A800	1/A600
B	3' - 4"	3' - 0"	1/A600	4/A800	1/A600
C	1' - 2"	3' - 0"	1/A600	4/A800	1/A600
D	9' - 0"	1' - 0"	1/A600	4/A800	1/A600
E	6' - 7"	1' - 0"	1/A600	4/A800	1/A600
F	8' - 11"	3' - 0"	1/A600	4/A800	1/A600
G	4' - 2"	3' - 0"	1/A600	4/A800	1/A600
H	2' - 2"	3' - 0"	1/A600	4/A800	1/A600
J	5' - 7"	3' - 0"	1/A600	4/A800	1/A600
K	4' - 11"	3' - 0"	1/A600	4/A800	1/A600
L	3' - 7"	1' - 0"	1/A600	4/A800	1/A600
M	4' - 2"	1' - 0"	1/A600	4/A800	1/A600



**GENERAL STRUCTURAL NOTES:**  
 1. BUILDING CODE: BUILDING CODE OF NEW YORK STATE, LATEST EDITION  
 2. CONSTRUCTION LOADING: DURING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL LIMIT AND CONTROL CONSTRUCTION LOADING, INCLUDING BUT NOT LIMITED TO:  
 a. MATERIAL STOCKPILING AND EQUIPMENT TO PRECLUDE OVERSTRESSING, CONSTRUCTION LIVE LOAD IN EXCESS OF 20 PSF, OR DAMAGE TO ANY STRUCTURAL ELEMENT.  
 3. COORDINATION WITH OTHER DISCIPLINES: THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL WORK WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.  
 4. EXISTING CONDITIONS: THE INFORMATION SHOWN ON THESE DOCUMENTS IS THE BEST REPRESENTATION OF EXISTING CONDITIONS AVAILABLE TO THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND BRING TO THE ENGINEER'S AND CONSTRUCTION MANAGER'S ATTENTION ANY DISCREPANCIES PRIOR TO COMMENCING WORK.  
 5. EXISTING STRUCTURES: ALL EXISTING STRUCTURES ADJACENT TO NEW WORK ARE TO BE ADEQUATELY PROTECTED AND/OR SUPPORTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY NEW OR EXISTING CONSTRUCTION DAMAGED WHILE WORK IS IN PROGRESS.  
 6. OPENINGS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SIZE AND LOCATION OF ALL OPENINGS IN NEW AND EXISTING CONSTRUCTION WITH THE DISCIPLINE REQUIRING THEM.

**FOUNDATION NOTES:**  
 1. NO GEOTECHNICAL INFORMATION WAS AVAILABLE AT THE TIME OF DESIGN. ASSUMED ALLOWABLE BEARING PRESSURE = 1,500 PSF.  
 2. TAKE ALL NECESSARY PRECAUTIONS WHEN EXCAVATING OR DRILLING ADJACENT TO EXISTING STRUCTURES TO AVOID DISTURBING EXISTING FOUNDATIONS. DO NOT EXCAVATE BELOW EXISTING FOUNDATIONS. CONTACT THE ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWINGS.  
 3. ALL EXCAVATIONS SHALL FULLY CONFORM TO LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.  
 4. DO NOT BACKFILL AGAINST CONCRETE ELEMENTS UNTIL PLACED CONCRETE HAS REACHED 75% OF ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.  
 5. ALLOW TESTING AGENCY TO INSPECT AND APPROVE ALL COMPACTED SUBGRADE AND FILL LAYERS PRIOR TO FURTHER BACKFILL AND/OR PLACEMENT OF CONCRETE. TESTING AND INSPECTION RESULTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.  
 6. THE SUITABILITY AND STABILITY OF EXISTING SOILS AND FILL, THE DEPTHS AND LATERAL LIMITS OF UNSUITABLE MATERIAL TO BE REMOVED, AND ADEQUACY OF FOUNDATION BEARING GRADES SHALL BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER.  
 7. BACKFILL AND FILL MATERIALS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO THE MODIFIED PROCTOR TEST (ASTM D-1557). ALL EXISTING BACKFILL SHALL BE RECOMPACTED AS SUCH.  
 8. EXCAVATION AND BACKFILL OPERATIONS SHALL BE MAINTAINED IN A DRY CONDITION. SURFACE AND INFILTRATING WATER SHALL BE REMOVED BY SITE GRADING AND/OR BY PUMPING FROM SLUMPS AS REQUIRED.

**CONCRETE NOTES:**  
 1. SUBMITTALS  
 a. SUBMIT SHOP DRAWINGS FOR REINFORCING, INCLUDING ALL NECESSARY ACCESSORIES TO HOLD REINFORCING SECURELY IN PLACE, FOR REVIEW AND APPROVAL. WHERE RESUBMITTAL OF SHOP DRAWINGS IS REQUIRED, ALL REVISIONS SHALL BE CLEARLY IDENTIFIED BY CLOUDING AND REVISION TAGS.  
 b. SUBMIT FOR REVIEW ALL MATERIALS AND METHODS FOR CONCRETE CURING.  
 2. PROVIDE THE FOLLOWING MINIMUM CONCRETE CLEAR COVER FOR REINFORCING STEEL, UNLESS OTHERWISE NOTED:  
 a. CONCRETE PLACED AGAINST EARTH: 3.0 IN.  
 b. FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER  
 #6 THROUGH #18 BARS: 2.0 IN.  
 #5 BARS AND SMALLER: 1.5 IN.  
 c. FORMED SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER  
 #14 AND #18 BARS: 1.5 IN.  
 #11 BARS AND SMALLER: 1.0 IN.  
 3. ALL CONCRETE WORK, CONSTRUCTION AND REINFORCING DETAILS SHALL CONFORM TO THE "BUILDING CODE OF NEW YORK STATE, LATEST EDITION".  
 4. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318.  
 5. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.  
 6. ALL REINFORCING SHALL BE LAPPED OR EMBEDDED IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE NOTED.  
 7. PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING AT CORNERS OR INTERSECTIONS.  
 8. CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE.  
 9. PRIOR TO PLACEMENT OF CONCRETE, A FIELD REPRESENTATIVE SHALL BE INFORMED A MINIMUM OF 24 HOURS IN ADVANCE OF PLACEMENT TO ALLOW INSPECTION OF REINFORCING STEEL, AND PREPARATION FOR TAKING CONCRETE SAMPLES. INDEPENDENT TESTS ARE REQUIRED FOR ALL CONCRETE PLACEMENTS.  
 10. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT.  
 11. W.W.R. SHALL CONFORM TO ASTM A1064 AND SHALL BE FABRICATED INTO FLAT SHEETS.  
 12. CHEMICAL ADHESIVE: HILTI HIT-HY 200, SIMPSON SET EPOXY, OR DEWALT AC100+ GOLD.  
 13. GROUT: NON-METALLIC/NON-SHRINK STRUCTURAL GROUT. FIVE STAR GROUT OR APPROVED EQUAL.  
 14. SYNTHETIC MICRO-FIBER: FIBRILLATED POLYPROPYLENE MICRO-FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE, COMPLYING WITH ASTM C 1116/C 1116M, TYPE III.  
 15. PROTECT CONCRETE FROM PREMATURE DRYING IMMEDIATELY AFTER PLACEMENT. CURING OF CONCRETE SLABS MUST START WITHIN 2 HOURS AFTER FINISHING OPERATIONS ARE COMPLETE. SLABS-ON-GRADE SHALL BE WET CURED FOR 7 DAYS. CURING COMPOUNDS ARE PROHIBITED.  
 16. SLABS-ON-GRADE SHALL HAVE CONTROL JOINTS AS SHOWN ON PLANS. SAW CUT JOINTS SHALL BE MADE WITHIN 12 HOURS OF PLACING SLAB. AFTER CONCRETE IS CURED AND READY FOR PLACEMENT OF FLOOR FINISH, ALL SLABS INSIDE THE BUILDING SHALL HAVE CONTROL JOINTS FILLED WITH APPROVED JOINT FILLER.  
 17. CONCRETE SHALL BE CONTROLLED, PROPORTIONED, MIXED AND PLACED IN THE PRESENCE OF A REPRESENTATIVE OF AN APPROVED TESTING AGENCY.  
 18. CONDUIT OR PIPES SHALL BE PLACED UNDER SLABS-ON-GRADE.  
 19. ALUMINUM CONDUITS OR PIPES SHALL NOT BE PLACED IN CONCRETE.  
 20. AIR-ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260 AND WATER-REDUCING ADMIXTURES SHALL CONFORM TO ASTM C494

**WOOD FRAMING NOTES:**  
 1. SUBMITTALS  
 a. CONTRACTOR SHALL PROVIDE ALL CONNECTION DETAILS FOR REVIEW PRIOR TO CONSTRUCTION. CONTRACTOR SHALL SUBMIT ENGINEERING DATA FOR ALL CONNECTORS AND CONNECTIONS NOT SHOWN ON THE DRAWINGS.  
 b. SUBMIT DESIGN CALCULATIONS AND SHOP DRAWINGS FOR ALL ENGINEERED TRUSSES AND TRUSS CONNECTORS, PREPARED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK, TO THE ENGINEER OF RECORD FOR REVIEW BEFORE CONSTRUCTION.  
 2. WOOD CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL FOREST PRODUCTS ASSOCIATION'S (NFPA) NATIONAL DESIGN SPECIFICATIONS (NDS) AND CHAPTER 23 OF THE BUILDING CODE OF NYS, LATEST EDITION.  
 3. MINIMUM DESIGN VALUES SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:  
 4. WOOD IN CONTACT WITH MASONRY, CONCRETE OR EARTH, OR WITHIN 1'-0" OF GRADE OR EXPOSED TO THE EXTERIOR SHALL BE PRESURE TREATED.  
 5. FRAMING ANCHORS AND MISCELLANEOUS METAL DEVICES FOR ALL FRAMING SHALL BE GALVANIZED STEEL OF AT LEAST 16 GAGE THICKNESS (G90 FOR INTERIOR APPLICATION, G185 OR STAINLESS STEEL FOR EXTERIOR). INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. USE FASTENERS AND FASTENING METHODS RECOMMENDED BY THE MANUFACTURER. EXTERIOR EXPOSED ANCHORS AND ANCHORS IN CONTACT WITH PRESURE TREATED WOOD TO BE STAINLESS OR GALVANIZED (G185).  
 6. BUILT-UP FRAMING MEMBERS SHALL BE FASTENED IN ACCORDANCE WITH NDS STANDARDS UNLESS OTHERWISE NOTED.  
 7. NOTCHES, COPES, AND HOLES IN WOOD MEMBERS ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED. NOTCHES, COPES, AND HOLES IN PRE-ENGINEERED MEMBERS SHALL BE IN ACCORDANCE AND APPROVED BY THE MANUFACTURER.  
 8. ROOF TRUSSES, INCLUDING DESIGN, FRAMING CONNECTORS, BRACING ERECTION AND QUALITY SHALL CONFORM TO THE SPECIFICATIONS AND RECOMMENDATIONS OF NFPA AND THE TRUSS PLATE INSTITUTE (TPI).  
 9. SHEATHING SHALL BE RATED AS FOLLOWS (CHECK THAT IT MEETS DESIGN LOADS)  
 a. WALL: APA RATED 24" O.C. EXPOSURE I (7/16" MIN. THICKNESS)  
 b. FLOOR: APA RATED 24/16, EXPOSURE I (3/4" MIN. THICKNESS)  
 c. ROOF: APA RATED 48/24, EXPOSURE I (5/8" MIN. THICKNESS)  
 10. SHEATHING SHALL BE CONTINUOUS OVER TWO OR MORE SUPPORTS. FLOOR AND ROOF SHEATHING SHALL BE ORIENTED WITH THE STRENGTH AXIS PERPENDICULAR TO THE SUPPORTS. WALL SHEATHING CAN BE ORIENTED PERPENDICULAR OR PARALLEL.  
 11. WALL SHEATHING SHALL HAVE 2X BLOCKING OR FRAMING MEMBERS BEHIND ALL PANEL EDGES.  
 12. UNLESS NOTED OTHERWISE, THE MINIMUM FASTENING FOR SHEATHING SHALL BE AS FOLLOWS:  
 a. WALL: 8d COMMON NAILS @ 6" O.C. (EDGE) & 12" O.C. (FIELD)  
 b. FLOOR: GLUED AND 10d COMMON NAILS @ 6" O.C. (PANEL EDGES) AND 12" O.C. (FIELD)  
 c. ROOF: 10d COMMON NAILS @ 6" O.C. (PANEL EDGES) AND 12" O.C. (FIELD)  
 d. GWB: #6 - 1 1/4" SCREWS AT 8" (EDGE) AND 12" (FIELD).  
 13. WOOD CONNECTORS: SIMPSON STRONG-TIE CONNECTORS USED AS BASIS OF DESIGN. USP STRUCTURAL CONNECTORS OF EQUAL STRENGTH ARE ACCEPTABLE.  
 14. BOLTS THROUGH WOOD MEMBERS SHALL BE ASTM A307.

STRUCTURAL DESIGN TABLE - IBC 2018 (IN ACCORDANCE WITH APPLICABLE BUILDING CODE)			
<b>BUILDING DATA:</b>	LOCATION HARRIMAN STATE PARK II 2020 NYS BUILDING CODE	IBC 2018 TABLE 1604.5	
<b>FLOOR LIVE LOAD:</b>	TOILET ROOMS LL1	60 PSF	ASCE 7-16 TABLE C4.3-1
<b>SNOW LOAD:</b>	SNOW LOAD IMPORTANCE FACTOR GROUND SNOW LOAD SNOW EXPOSURE FACTOR THERMAL FACTOR FLAT ROOF SNOW	Is Pg De Ct Pf	1.00 31.6 PSF 1.0 1.2 26.5 PSF
<b>WIND LOAD (COMPONENTS &amp; CLADDING):</b>	ULTIMATE DESIGN WIND SPEED (3-SECOND GUST) SPECTRAL RESPONSE ACCELERATION AT 1.0 SEC EXPOSURE CATEGORY	Vult Vasd B	112 mph 87 mph B
<b>EARTHQUAKE LOAD:</b>	SOIL SITE CLASSIFICATION SPECTRAL RESPONSE ACCELERATION AT 0.2 SEC SPECTRAL RESPONSE ACCELERATION AT 1.0 SEC SEISMIC IMPORTANCE FACTOR DESIGN SPECTRAL RESPONSE COEFFICIENT DESIGN SPECTRAL RESPONSE COEFFICIENT SEISMIC DESIGN CATEGORY	Ss S1 Is SDS SD1	D 0.278g 0.06g 1.00 0.292g 0.090g B

EARTH-WORK - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING			
AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	-	1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC	-	-
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	PERIODIC	-	-
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS	-	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC	-	-
CAST-IN-PLACE CONCRETE - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING			
AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318 CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
2. INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	ACI 318: 17.8.2	-
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. <sup>a</sup> a. ADHESIVE ANCHORS: INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a.	CONTINUOUS	ACI 318: 17.8.2.4	-
4. VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.5	1906.6, 1908.7, 1908.8
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.5.3 - 26.5.5	1908.9
8. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.11.2	-
9. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 26.11.2 (b)	-

<sup>a</sup> WHERE APPLICABLE, SEE SECTION 1712 SPECIAL INSPECTION FOR BRINKING RESISTANCE.  
<sup>b</sup> SPECIAL REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE IN ACCORDANCE WITH 17.8.2 IN ACI 318. OR OTHER QUALIFICATION PROCEDURES WHERE SPECIAL REQUIREMENTS ARE NOT PROVIDED. SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

**New York State Parks, Recreation and Historic Preservation**  
 Governor Kathy Hochul | Commissioner Erik Kulevskii

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 (845) 786-2701  
 Executive Director: Joshua Laird

**Project Title:**  
 CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
 HARRIMAN STATE PARK

**Key Plan**

REVISIONS		
Rev No	Description	Date

Drawn By: <b>MCRB</b> Design By: <b>MCM</b> Checked By: <b>MCM</b> Approved By: <b>MCM</b> Date: <b>3/16/23</b>	Seal and Signature  EXPIRATION DATE: 10/31/2025
<b>Sheet Title:</b> GENERAL NOTES	<b>Drawing Number:</b> S001
<b>Bid Documents</b> Project Number: <b>2222163.05</b>	Sheet:

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Design By:  
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Checked By:  
**MCM**

Approved By:  
**MCM**

Date:  
**3/16/23**



Sheet Title:  
**FOUNDATION  
PLANS -  
BATHHOUSE  
#231 & #322**

Drawing Number:  
**S101**

Bid Documents

Project Number:  
**2222163.05**

Sheet:

FOOTING SCHEDULE						
MARK	FOOTING DIMENSIONS			FOOTING REINFORCEMENT		COMMENTS
	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCEMENT LONGITUDINAL REINF.	TRANSVERSE REINF.	
F1	2'-0"	2'-0"	10"	(3) #4	(3) #4	NA
F2	2'-0"	2'-0"	10"	(3) #4	(3) #4	NA

PIER SCHEDULE				
MARK	PIER DIAMETER	PIER REINFORCEMENT		COMMENTS
		VERTICAL	TIES	
P1	1'-0"	(4) #5	#3 @ 10" O.C.	
P2	1'-0"	(6) #6	#3 @ 10" O.C.	

**FOUNDATION LEGEND**

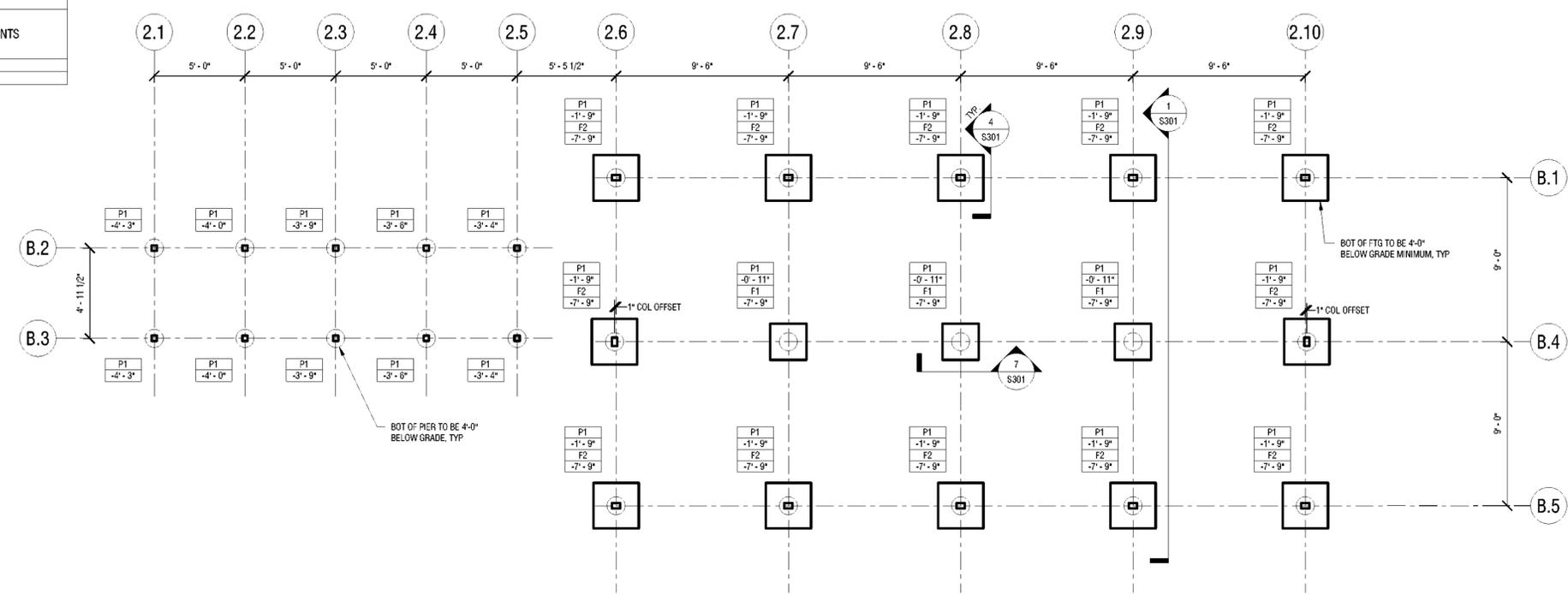
1.  $\frac{P\#}{W\#}$  - P# - INDICATES PIER TYPE (SEE PIER SCHEDULE)  
W# - INDICATES WALL TYPE (SEE FOUNDATION WALL &/OR WALL SCHEDULE)

2.  $\frac{WF\#}{P\#}$  - WF# - INDICATES WALL FOOTING TYPE (SEE WALL FOOTING SCHEDULE)  
P# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE)

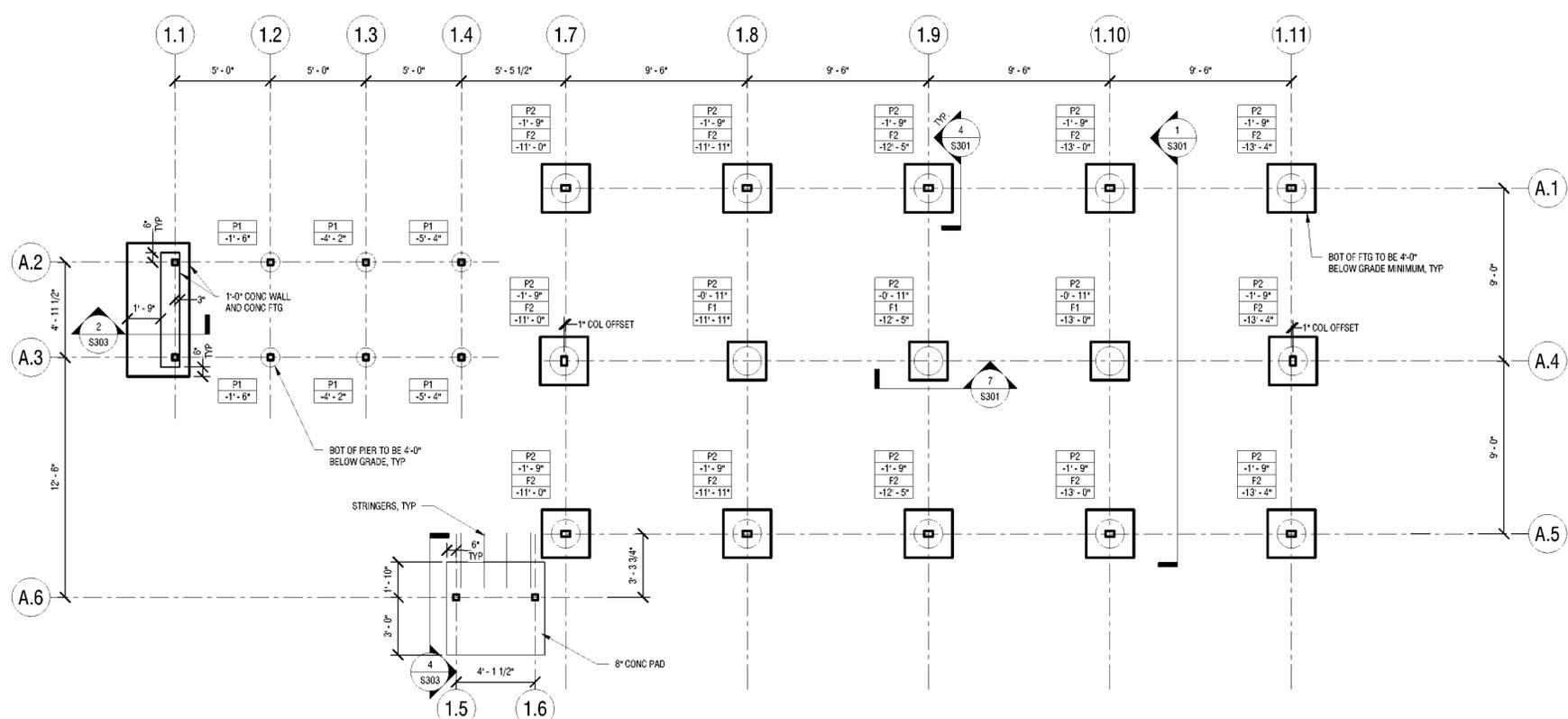
3.  $\frac{F\#}{P\#}$  - F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE)  
P# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE)

4.  $\frac{F\#}{P\#}$  - F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE)  
P# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE)

5.  $\frac{F\#}{P\#}$  - F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE)  
P# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE)



**2 FOUNDATION PLAN - BATH HOUSE #322**  
1/4" = 1'-0"  
DATUM ELEVATION OF 0'-0" IS EQUAL TO SITE/SURVEY ELEVATION OF 1091.0 FEET

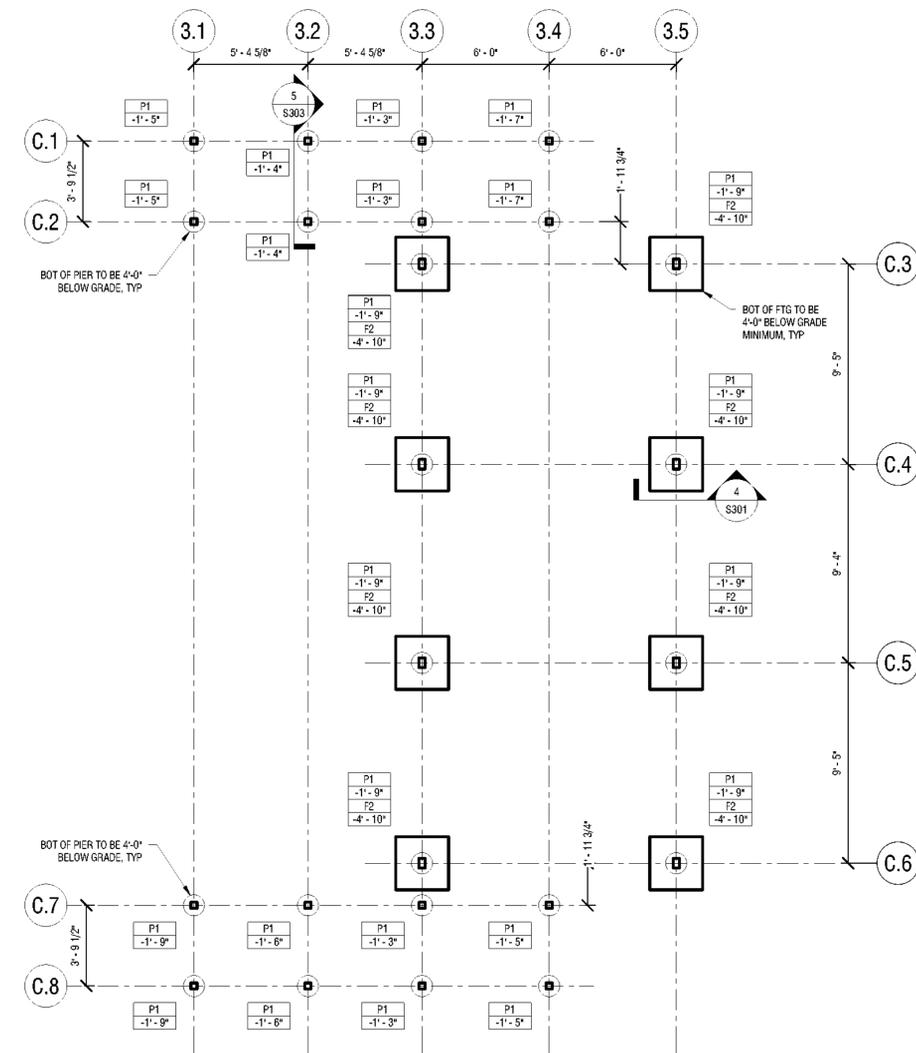


**1 FOUNDATION PLAN - BATH HOUSE #231**  
1/4" = 1'-0"  
DATUM ELEVATION OF 0'-0" IS EQUAL TO SITE/SURVEY ELEVATION OF 1088.4 FEET

FOOTING SCHEDULE							
MARK	FOOTING DIMENSIONS			FOOTING REINFORCEMENT		TOP REINFORCEMENT	COMMENTS
	LENGTH	WIDTH	THICKNESS	LONGITUDINAL REINF.	TRANSVERSE REINF.		
F1	2'-0"	2'-0"	10"	(3) #4	(3) #4	NA	
F2	2'-0"	2'-0"	10"	(3) #4	(3) #4	NA	

PIER SCHEDULE				
MARK	PIER DIMENSIONS		PIER REINFORCEMENT	COMMENTS
	DIAMETER	VERTICAL		
P1	1'-0"	(4) #5	#3 @ 10" O.C.	
P2	1'-0"	(6) #6	#3 @ 10" O.C.	

FOUNDATION LEGEND	
1.  P# F#	P# - INDICATES PIER TYPE (SEE PIER SCHEDULE) F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE) [-#'-#"] - BELOW COLUMN FOOTING TYPE INDICATES BOTTOM OF FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0'-0". [-#'-#"] - BELOW PIER TYPE INDICATES TOP OF PIER ELEVATION WITH RESPECT TO DATUM ELEVATION = 0'-0".
2.  W#	## - INDICATES WALL TYPE (SEE FOUNDATION WALL &/OR WALL SCHEDULE)
3.  WF# #'-#"	WF# - INDICATES WALL FOOTING TYPE (SEE WALL FOOTING SCHEDULE) #'-#"- BOTTOM OF FOOTING ELEV. FOR WALL FOOTING W/ RESPECT TO DATUM ELEVATION = 0'-0".
4.  #'-#"	#'-#"- BOTTOM OF FOOTING ELEV. FOR WALL FOOTING W/ RESPECT TO DATUM ELEVATION = 0'-0".
5.  [##'-##"]	TOP OF WALL ELEVATION



1 FOUNDATION PLAN - LATRINE #427  
 S102 1/4" = 1'-0"  
 DATUM ELEVATION OF 0'-0" IS EQUAL TO SITE/SURVEY ELEVATION OF 1061.5 FEET.

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Project Title:  
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 PHASE 3

Project Location:  
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Key Plan

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 MCRB

Design By:  
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Checked By:  
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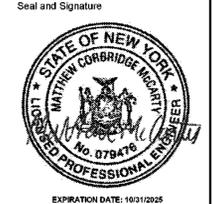
Approved By:  
 MCM

Date:  
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Sheet Title:  
 FOUNDATION PLAN - LATRINE #427

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**MCM**

Date:  
**3/16/23**

Expiration Date: 10/31/2025



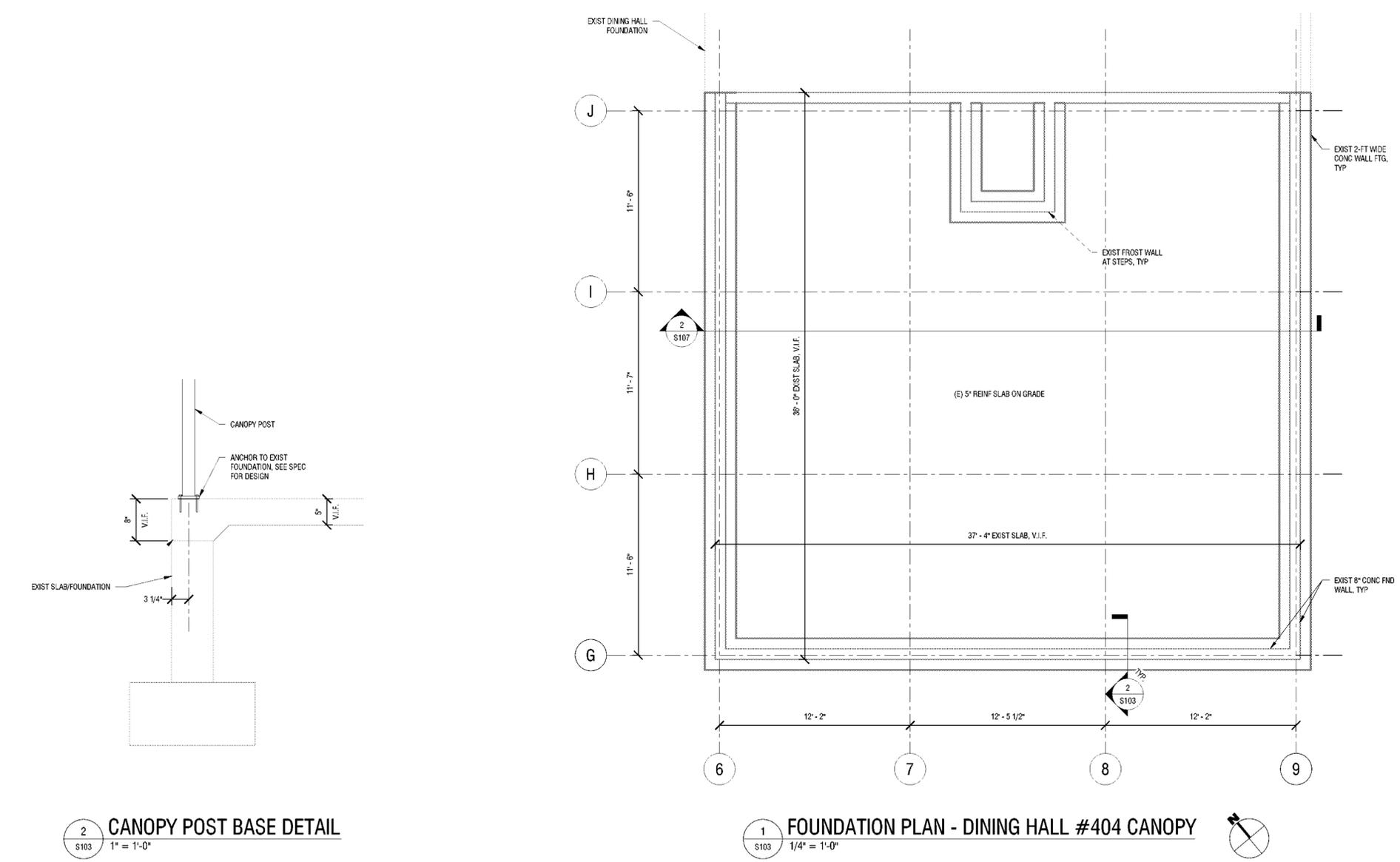
Sheet Title:  
**FOUNDATION PLAN - DINING HALL #404 CANOPY**

Drawing Number:  
**S103**

Bid Documents

Project Number:  
**2222163.05**

Sheet:



**2 CANOPY POST BASE DETAIL**  
 S103 1" = 1'-0"

**1 FOUNDATION PLAN - DINING HALL #404 CANOPY**  
 S103 1/4" = 1'-0"

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**LaBella**

**Certificate of Authorization Number:**  
 Professional Engineering: 015251  
 Land Surveying: 017970  
 Geological: 018750

**Palisades Region**  
 Palisades Interstate Park Commission  
 Bear Mountain, New York 10911  
 (845) 786-2701  
 Executive Director: Joshua Laird

**Project Title:**  
 CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
 HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**MCRB**

Design By:  
**MCM**

Checked By:  
**MCM**

Approved By:  
**MCM**

Date:  
**3/16/23**

Sheet Title:  
**FLOOR FRAMING PLANS - BATHHOUSE #231 & #322**

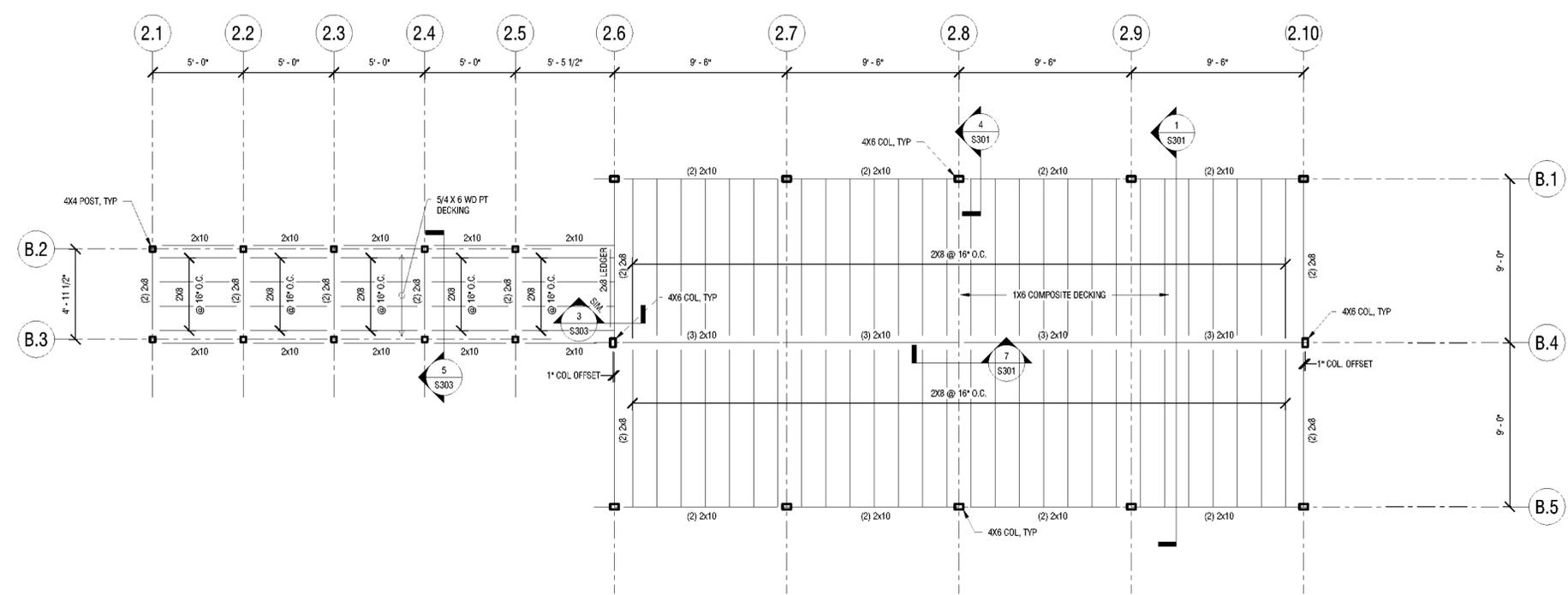
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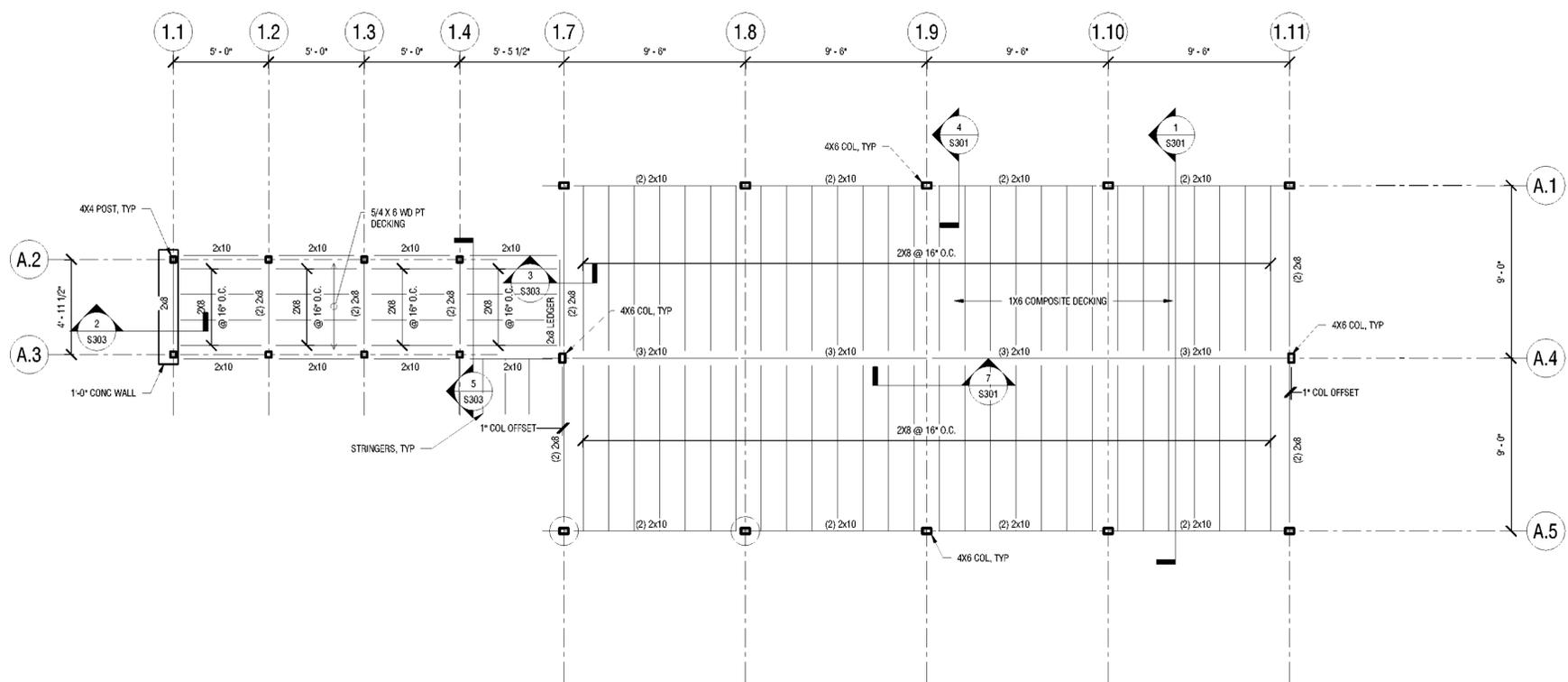
Drawing Number:  
**S104**

Project Number:  
**2222163.05**

Sheet:



**2 FLOOR FRAMING PLAN - BATHHOUSE #322**  
 S104 1/4" = 1'-0"



**1 FLOOR FRAMING PLAN - BATHHOUSE #231**  
 S104 1/4" = 1'-0"

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Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

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Checked By:  
**MCM**

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**MCM**

Date:  
**3/16/23**

**Seal and Signature**  

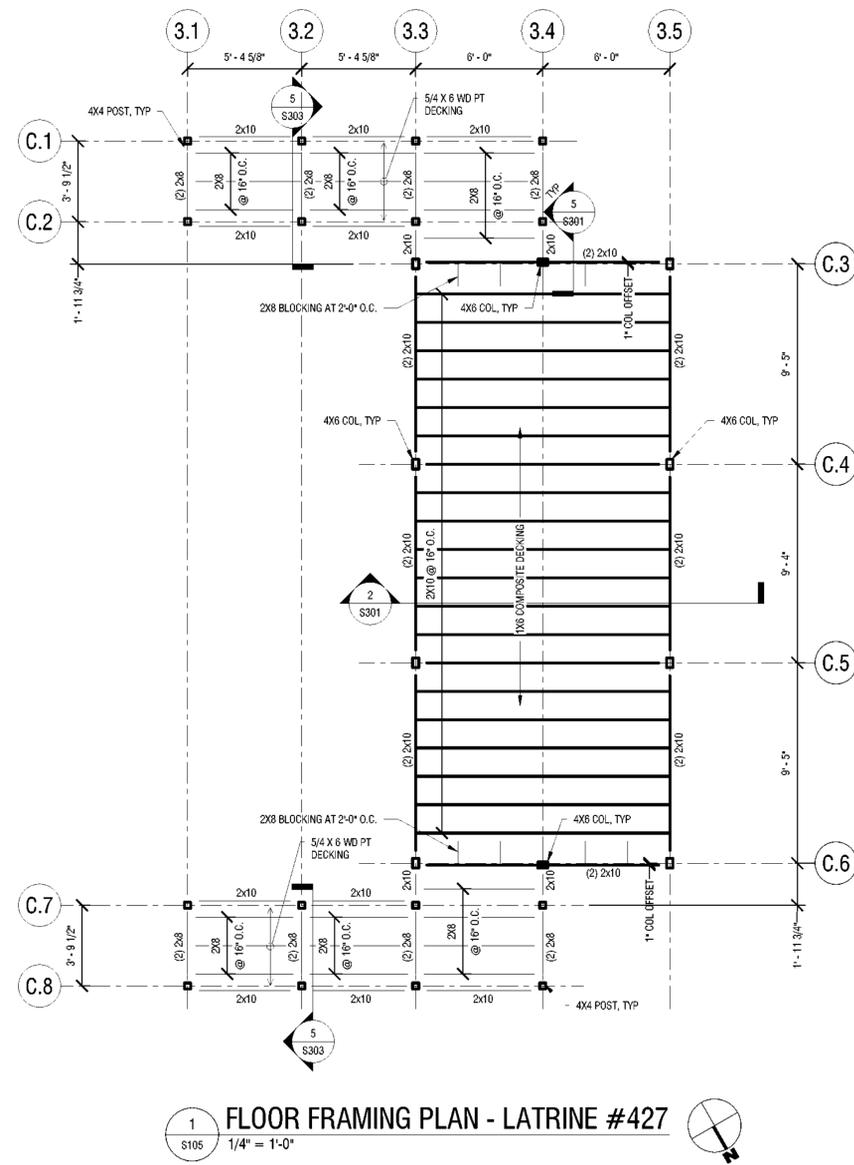

**Sheet Title:**  
FLOOR FRAMING PLAN -  
LATRINE #427

**Drawing Number:**  
**S105**

**Bid Documents**

Project Number:  
**2222163.05**

Sheet:



**1 FLOOR FRAMING PLAN - LATRINE #427**  
S105 1/4" = 1'-0"

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PHASE 3

**Project Location:**  
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**Key Plan**

**REVISIONS**

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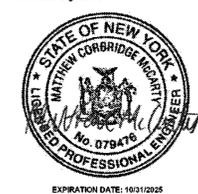
Design By:  
**MCM**

Checked By:  
**MCM**

Approved By:  
**MCM**

Date:  
**3/16/23**

Sheet Title:  
**ROOF FRAMING PLANS**



Seal and Signature

Drawing Number:  
**S106**

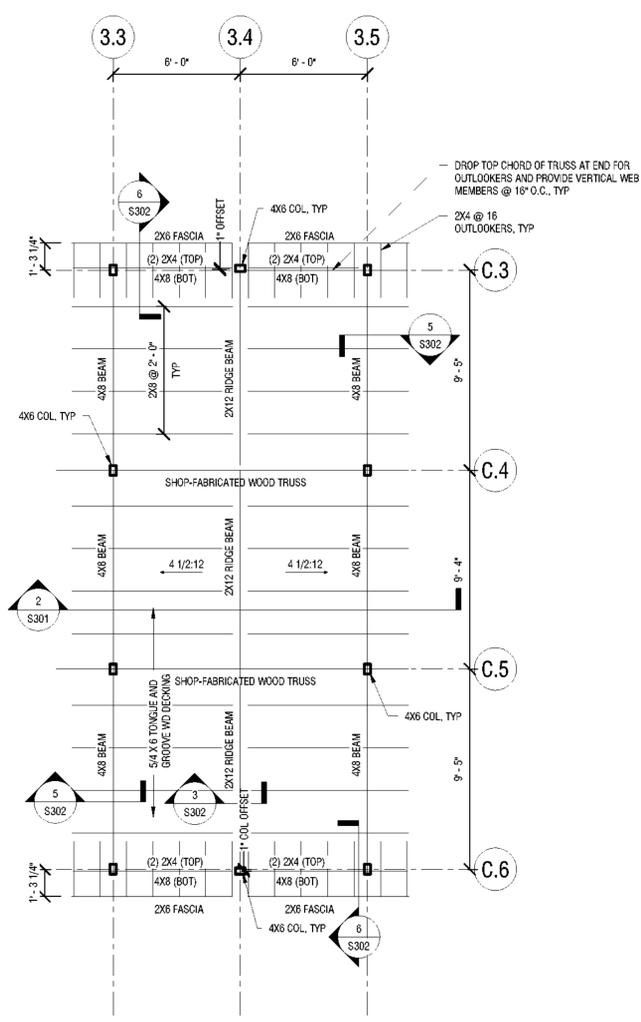
Bid Documents

Project Number:  
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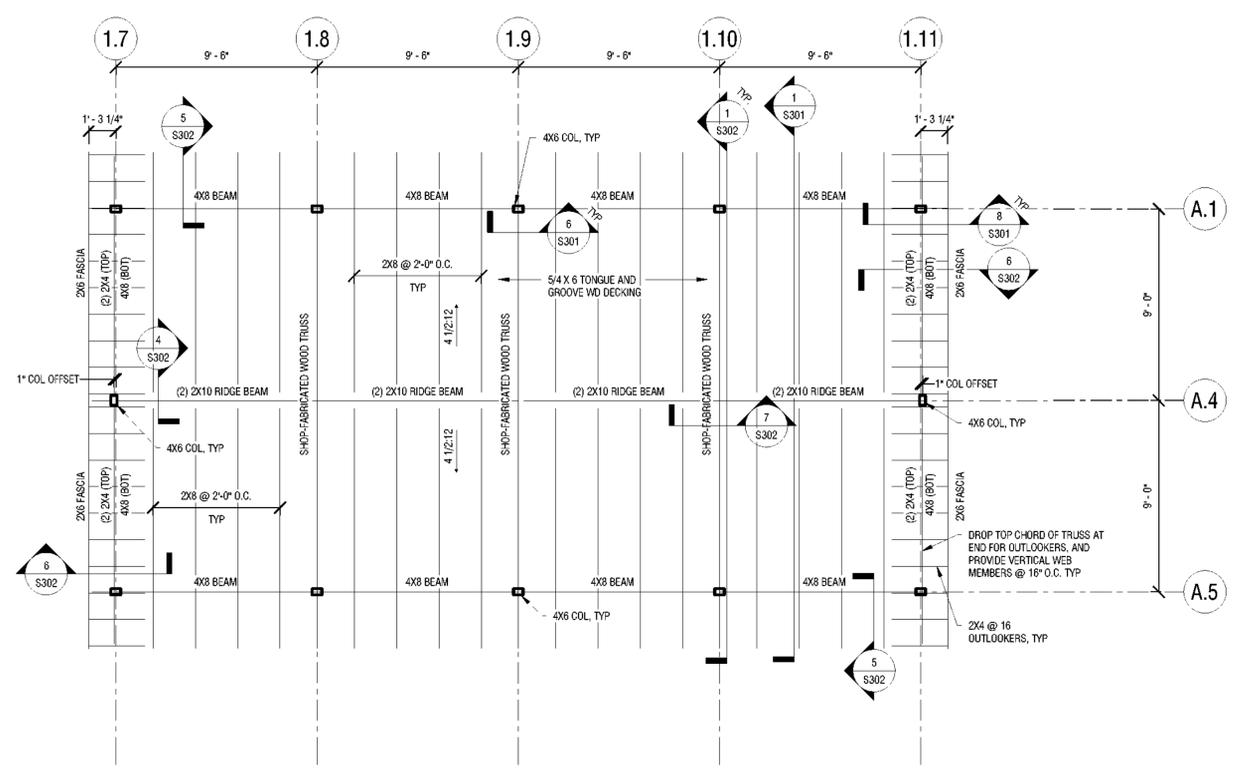
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**FRAMING LEGEND**

1. DENOTES MOMENT CONNECTION
2. DENOTES MASONRY/CONCRETE BEARING
3. DENOTES RIGID CONNECTION
4. (# - #) BEAM AT ELEV. ABOVE OR BELOW PLAN ELEV. (SEE PLAN NOTES)
5. (BELOW) BEAM LOCATED BELOW ANOTHER BEAM IN PLAN
6. S# ELEVATED SLAB: ARROWS INDICATE SPAN DIRECTION  
# = SLAB MARK (SEE ELEVATED SLAB SCHEDULE)
7. R# ROOF DECK: ARROWS INDICATE SPAN DIRECTION  
# = DECK MARK (SEE ROOF DECK SCHEDULE)
8. W# WALL MARK: SEE WALL SCHEDULE
9. F.D. FLOOR DRAIN (SEE MECH. & ARCH.)
10. C.O. CLEAN OUT (SEE MECH. & ARCH.)
11. R.D. ROOF DRAIN (SEE MECH. & ARCH.)



**2 ROOF FRAMING PLAN - LATRINE #427**  
1/4" = 1'-0"



**1 ROOF FRAMING PLAN - BATHHOUSE #231 AND #322**  
1/4" = 1'-0"  
COLUMN GRID TAGS SHOWN ARE FOR BATHHOUSE #231, SEE OTHER PLANS FOR BATHHOUSE #322 TAGS.

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**Project Location:**  
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**Key Plan**

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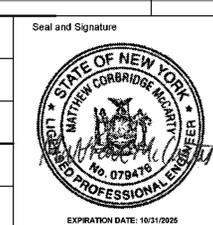
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**MCM**

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Date:  
**3/16/23**

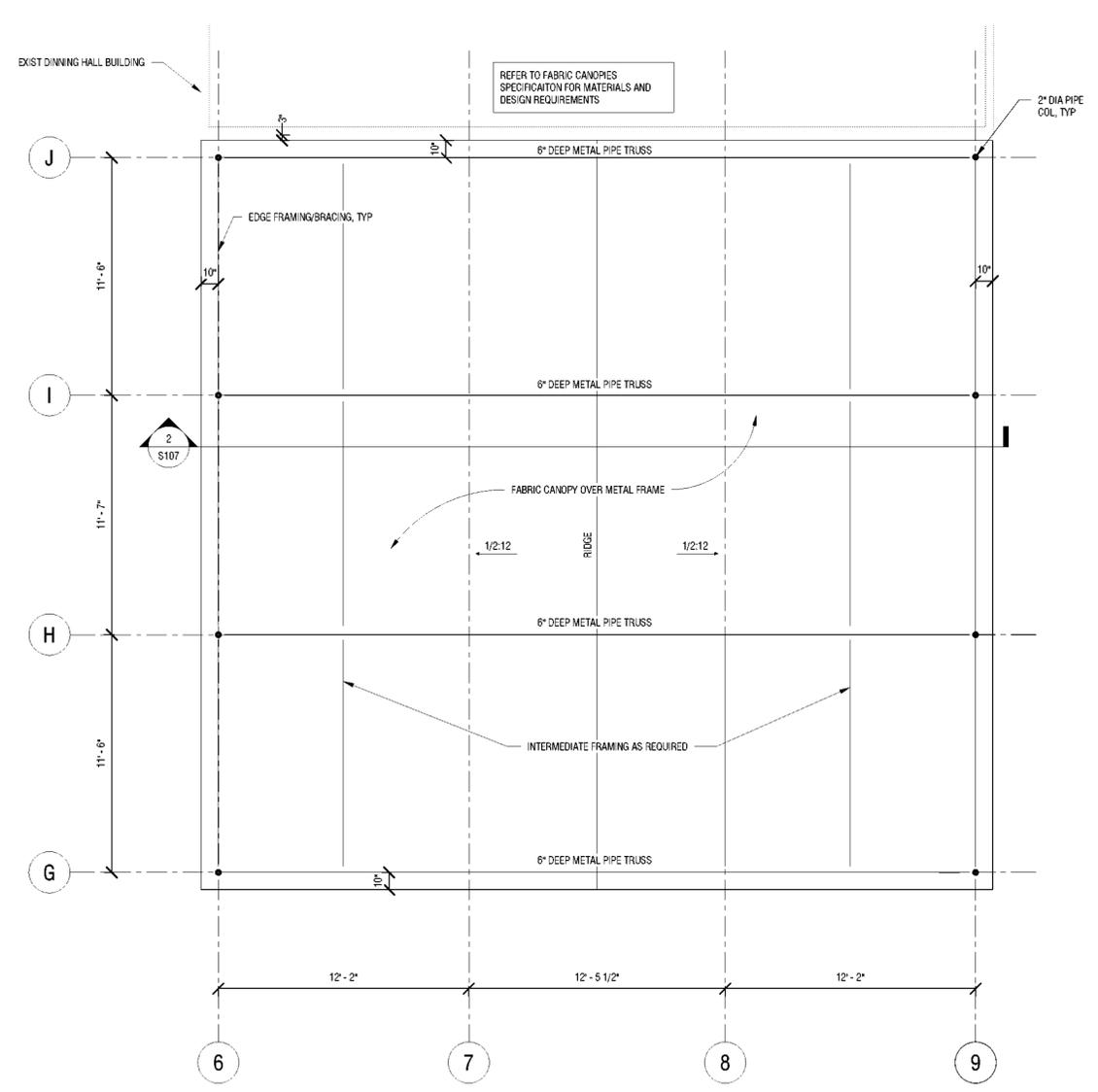
Sheet Title:  
**ROOF FRAMING PLAN - DINING HALL #404 CANOPY**

Bid Documents  
Project Number:  
**2222163.05**

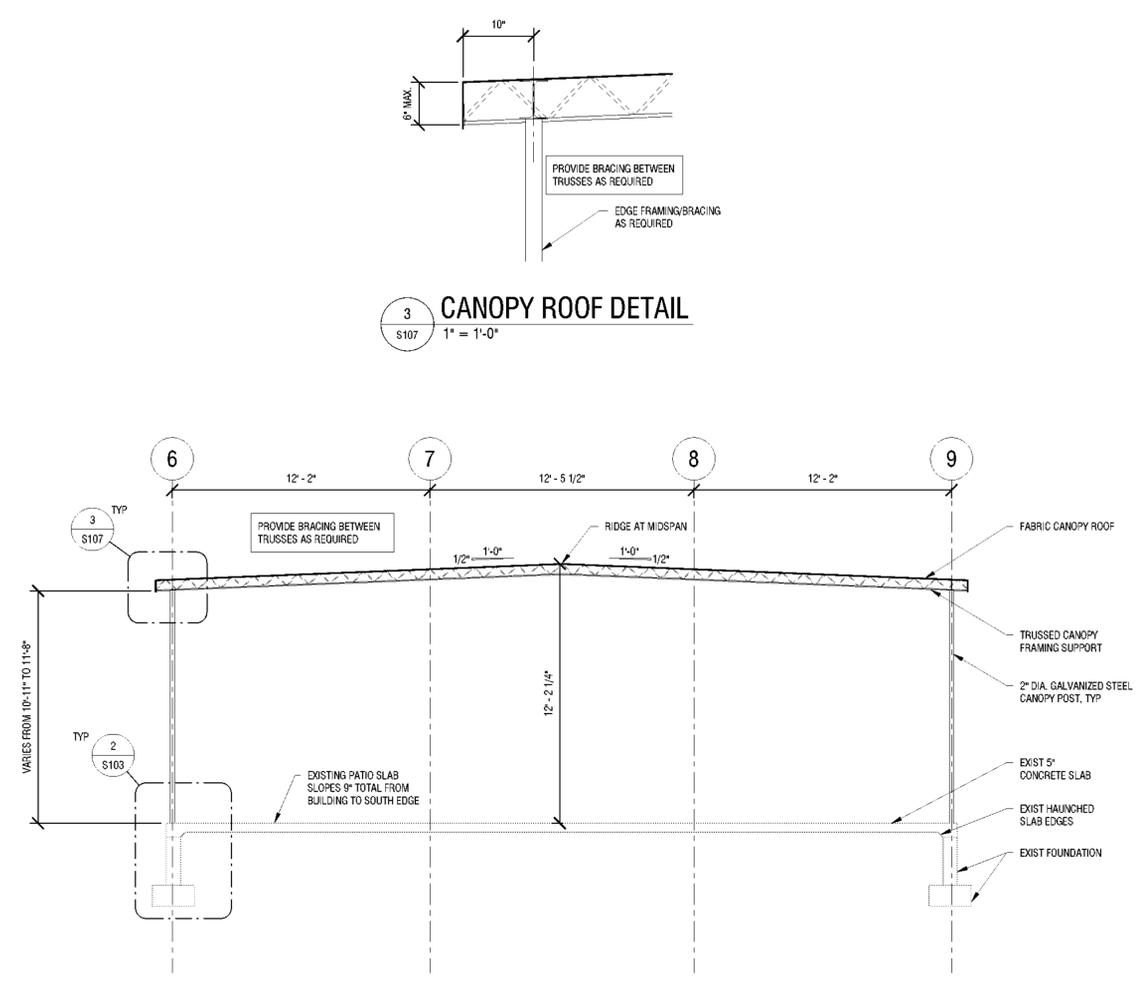


Drawing Number:  
**S107**

Sheet:



**1 ROOF FRAMING PLAN - DINING HALL #404 CANOPY**  
 S107 1/4" = 1'-0"



**2 SECTION THROUGH DINING CANOPY**  
 S107 1/4" = 1'-0"

**3 CANOPY ROOF DETAIL**  
 S107 1" = 1'-0"

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Geological: 018750

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Bear Mountain, New York 10911  
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PHASE 3**

**Project Location:  
HARRIMAN STATE PARK**

**Key Plan**

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**MCM**

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**MCM**

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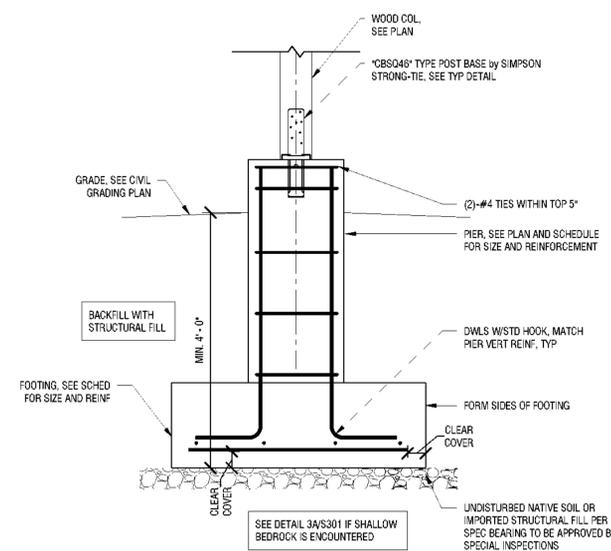


Sheet Title:  
**TYPICAL SECTIONS AND  
DETAILS**

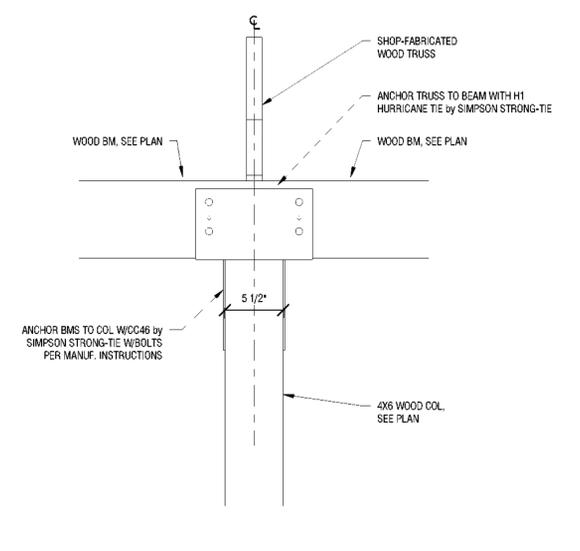
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**S301**

Bid Documents  
Project Number:  
**2222163.05**

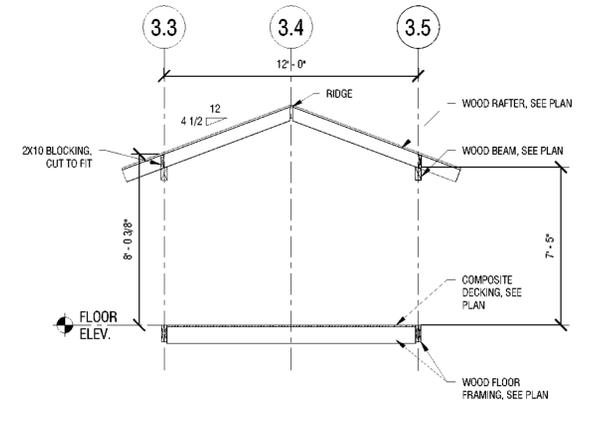
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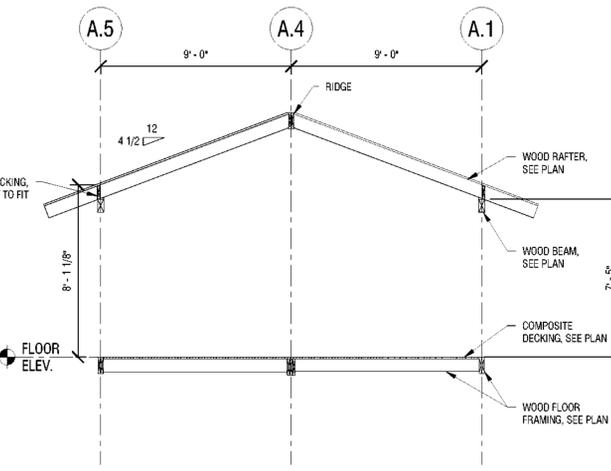
**3** TYPICAL PIER AND FOOTING  
S301 3/4" = 1'-0"



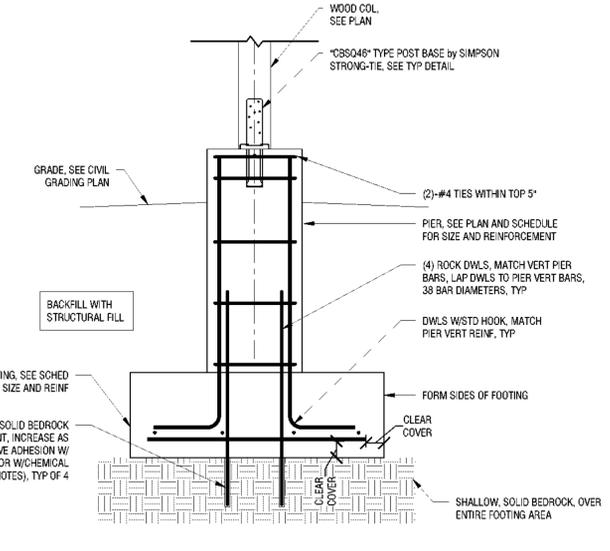
**6** TYPICAL TRUSS AND BEAM AT COLUMN  
S301 1 1/2" = 1'-0"



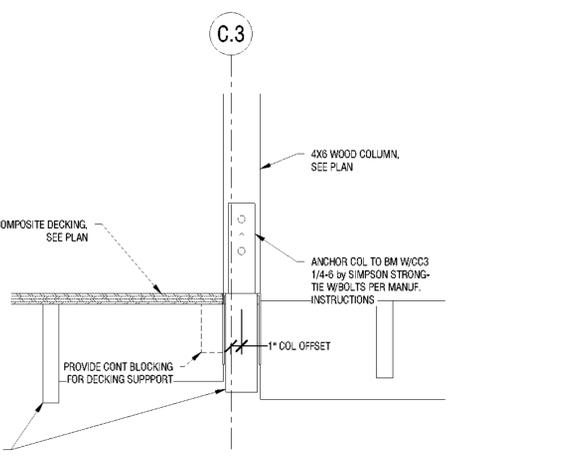
**2** TYPICAL SECTION THROUGH LATRINE #427  
S301 1/4" = 1'-0"



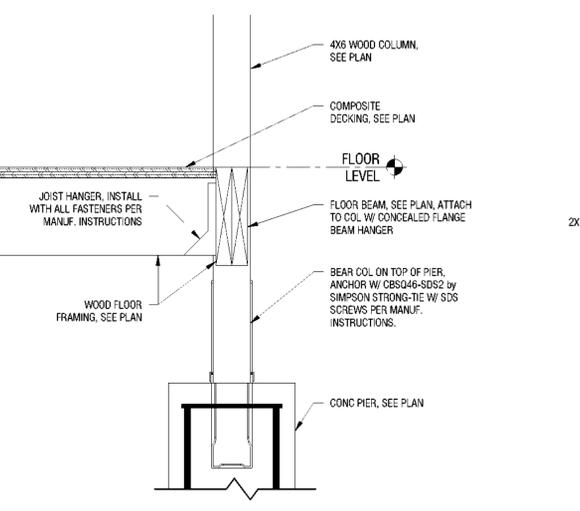
**1** TYPICAL SECTION THROUGH BATHHOUSE  
S301 1/4" = 1'-0"



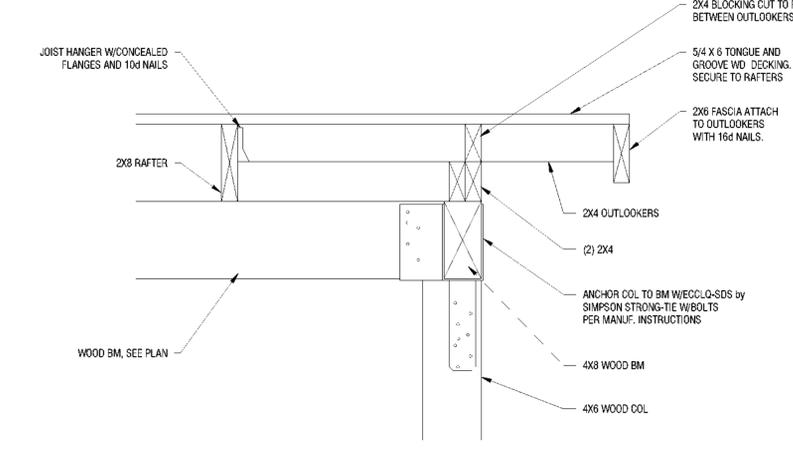
**3A** TYPICAL PIER AND FOOTING AT BEDROCK  
S301 3/4" = 1'-0"



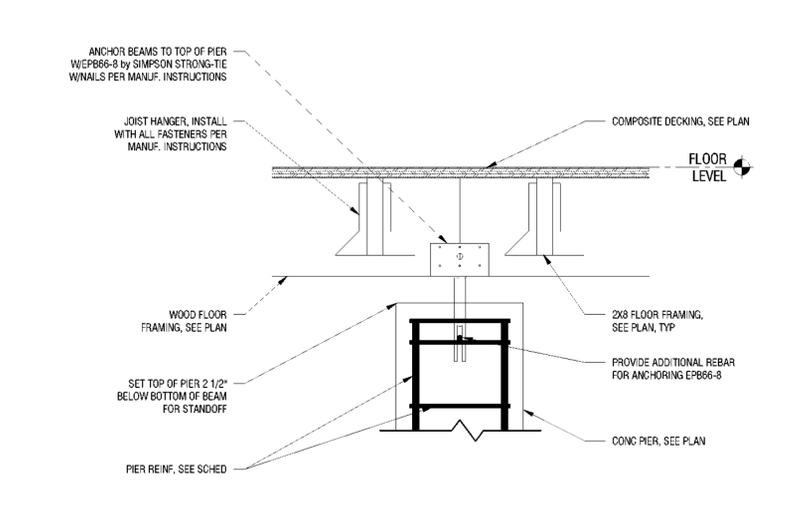
**5** COLUMN ON BEAM  
S301 1 1/2" = 1'-0"



**4** TYPICAL COLUMN BEARING AT PIER  
S301 1 1/2" = 1'-0"



**8** TYPICAL TRUSS AT END  
S301 1 1/2" = 1'-0"



**7** WOOD FRAMING TO CONCRETE PIER CONNECTION  
S301 1 1/2" = 1'-0"

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Palisades Interstate Park Commission  
Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

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**MCRB**

Design By:  
**MCM**

Checked By:  
**MCM**

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**MCM**

Date:  
**3/16/23**

Sheet Title:  
**ROOF FRAMING  
DETAILS**

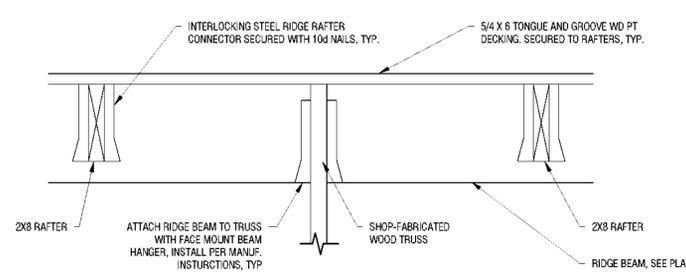
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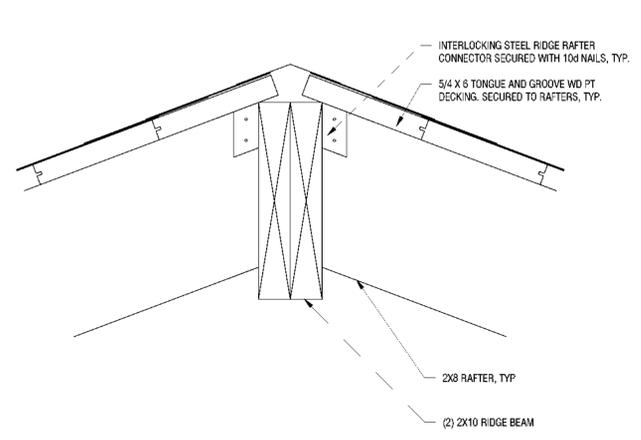


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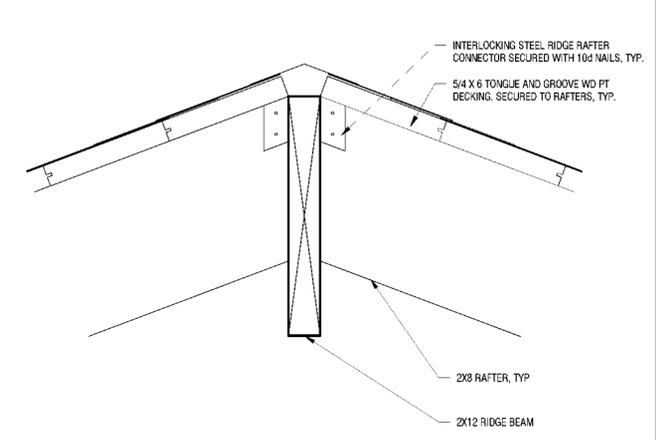
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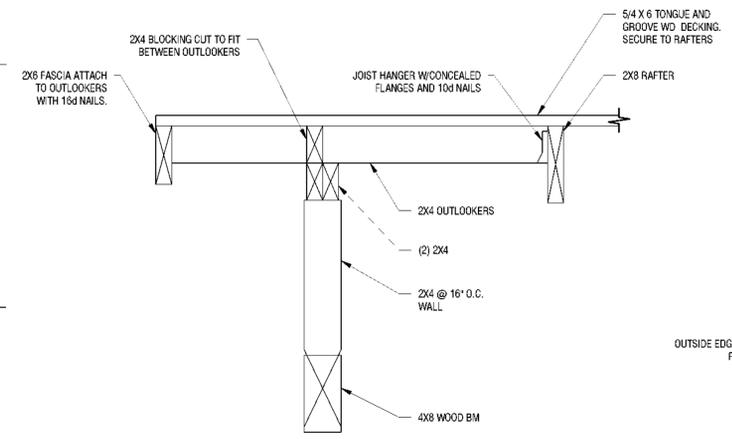
**7 TYPICAL CONNECTION AT RIDGE**  
S302 1 1/2" = 1'-0"



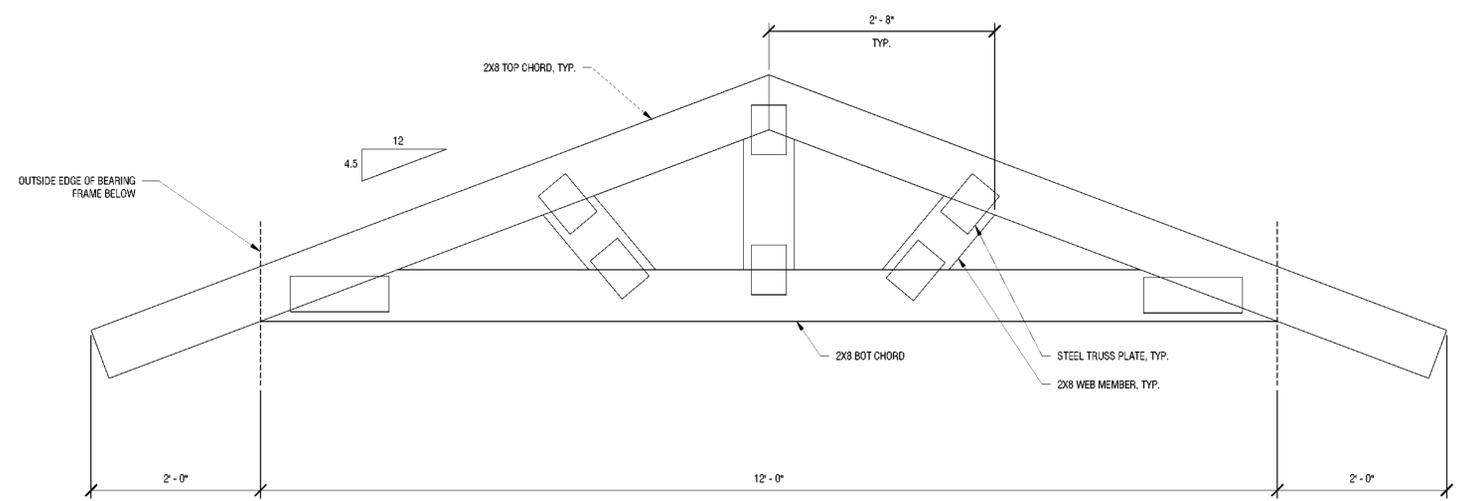
**4 BATH HOUSE RIDGE DETAIL**  
S302 3" = 1'-0"



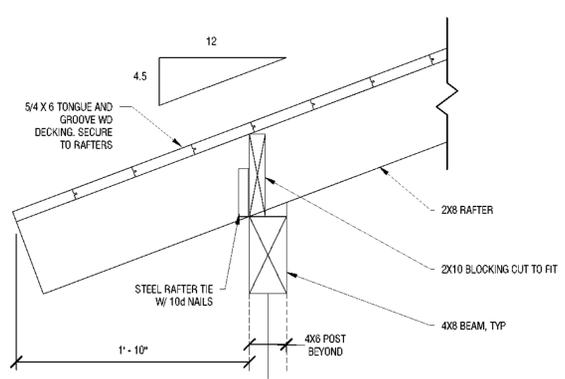
**3 BUILDING #427 RIDGE DETAIL**  
S302 3" = 1'-0"



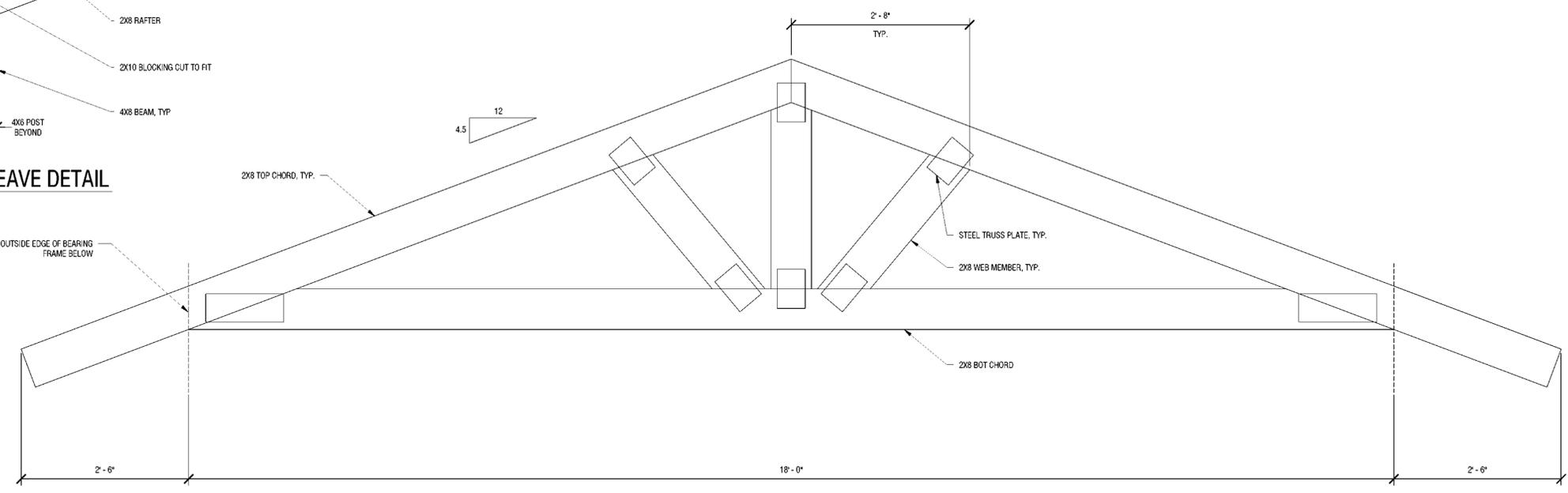
**6 TYPICAL SECTION AT FASCIA**  
S302 1 1/2" = 1'-0"



**2 BUILDING #427 PREFABRICATED TRUSS ELEVATION DETAIL**  
S302 1" = 1'-0"



**5 TYPICAL EAVE DETAIL**  
S302 1 1/2" = 1'-0"



**1 BATH HOUSE PREFABRICATED TRUSS ELEVATION DETAIL**  
S302 1" = 1'-0"

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**Project Location:**  
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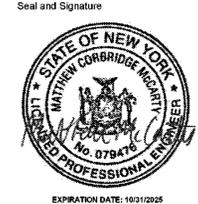
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Design By:  
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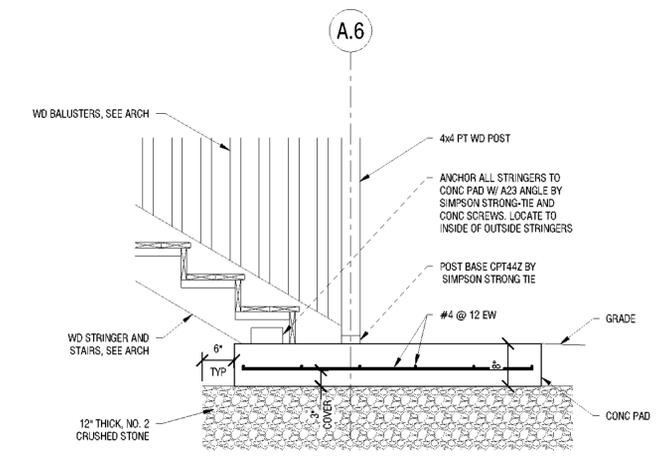
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**RAMP AND STAIR DETAILS**

Bid Documents

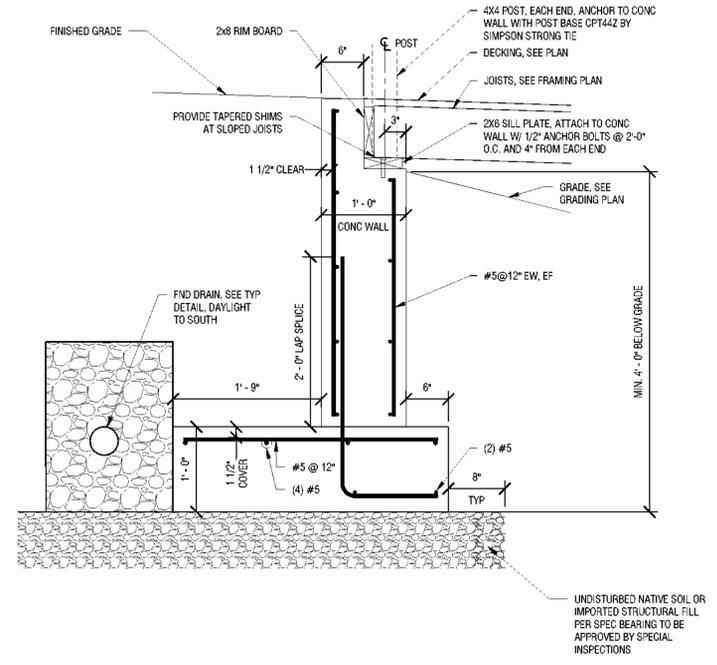
Project Number:  
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Drawing Number:  
**S303**

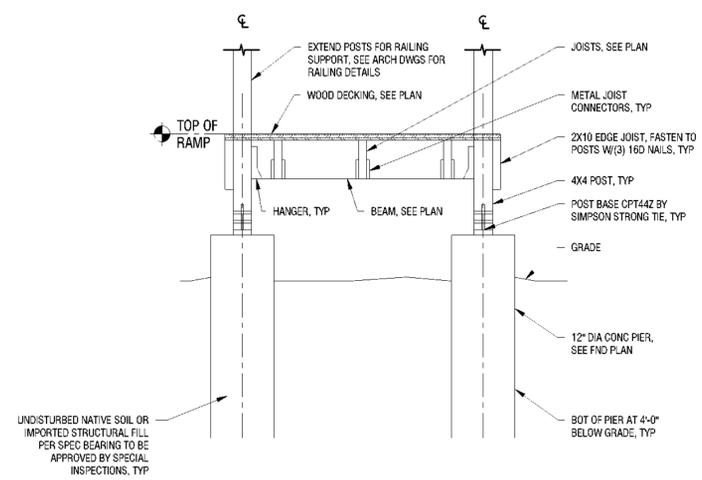
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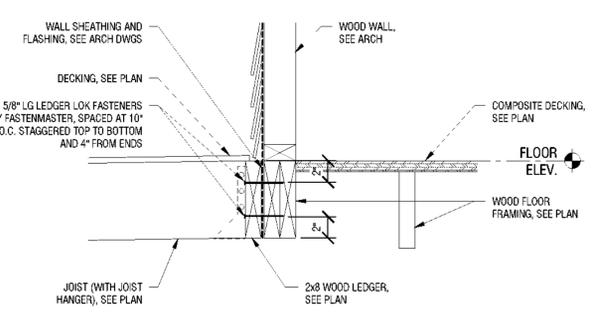
**4 CONCRETE PAD AT BOTTOM OF STAIRS**  
S303 3/4" = 1'-0"



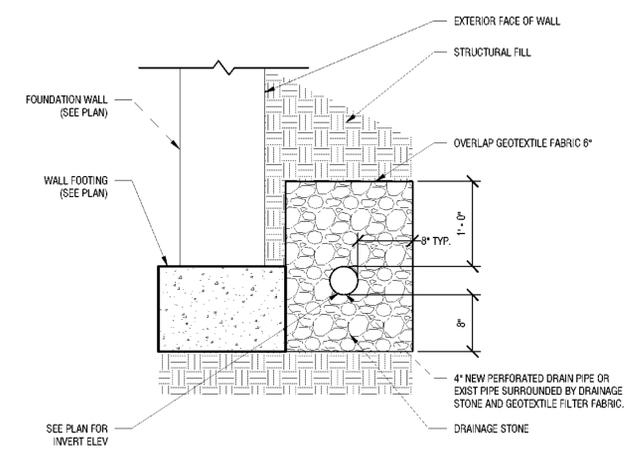
**2 RETAINING WALL DETAIL**  
S303 1" = 1'-0"



**5 SECTION AT RAMP**  
S303 3/4" = 1'-0"



**3 TYPICAL SECTION AT LEDGER**  
S303 1 1/2" = 1'-0"



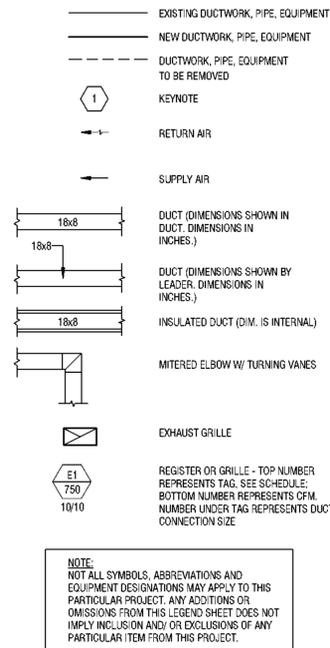
**1 TYPICAL FOUNDATION DRAIN**  
S303 1" = 1'-0"

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### GENERAL NOTES

- GENERAL CONTRACTOR TO PROVIDE ALL ROOF PENETRATIONS REQUIRED TO ACCOMMODATE HVAC EQUIPMENT OPENINGS AND SET CURBS. HVAC CONTRACTOR TO COORDINATE EXACT LOCATION OF PENETRATIONS WITH G.C. AND SHALL ASSIST WITH SETTING ALL HVAC EQUIPMENT ROOF CURBS. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY CAP OF ALL ROOF PENETRATIONS IN WINTER FROM TIME PENETRATIONS ARE COMPLETE TO TIME EQUIPMENT IS SET ON ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FLASHING ALL EQUIPMENT CURBS AND OTHER HVAC RELATED ROOF PENETRATIONS. HVAC CONTRACTOR SHALL REMOVE AND DISPOSE OF TEMPORARY CAP WHEN EQUIPMENT IS SET IN PLACE.
- PROVIDE 45 DEGREE SHOE-TAP FITTING AND VOLUME DAMPER AT ALL BRANCH DUCT TAKE-OFFS (TOP, SIDE AND BOTTOM) FOR EXHAUST AIR, UNLESS SHOWN OR NOTED OTHERWISE.
- COORDINATE HVAC INSTALLATION WITH STRUCTURE, CEILING, LIGHTING, CONDUIT, HEATING AND DOMESTIC PIPING, STORM AND SANITARY DRAIN PIPING (ALL TRADES). PREPARE AND SUBMIT FULL COORDINATION DRAWINGS FOR APPROVAL BY ENGINEER PRIOR TO ORDERING MATERIALS AND/OR BEGINNING CONSTRUCTION.
- ALL 90 DEGREE RECTANGULAR ELBOWS AND DUCTWORK TEES SHALL BE HARD MITERED WITH FACTORY TURNING VANES.
- ALL DUCTWORK PASSING THROUGH NON-FIRE RATED WALLS TO BE SEALED AROUND PERIMETER (BOTH SIDES) WITH DRYWALL JOINT COMPOUND OR APPROVED EQUAL.
- ALL SUPPORT OF EQUIPMENT, DUCTWORK AND ASSOCIATED DISTRIBUTION SERVICES SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE BUILDING CODE OF NEW YORK STATE.
- WORK INDICATED ON THIS SHEET SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR (MC) UNLESS OTHERWISE NOTED.
- COORDINATE ALL WORK WITH ELECTRICAL CONTRACTOR (EC).
- COORDINATE ALL WORK WITH GENERAL CONTRACTOR (GC); FLASHING AT EXTERIOR WALL SHALL BE BY GENERAL CONTRACTOR. MC SHALL PROVIDE VARIABLE SPEED CONTROLLER IN BOX NEAR FAN WITH RACEWAY AND CONDUCTORS FROM EXHAUST FAN TO SUCH CONTROLLER.
- ALL CONDUIT AND WIRING SHALL CONFORM TO THE ELECTRICAL SPECIFICATIONS AND CONTRACT DRAWINGS UNLESS OTHERWISE NOTED. THE CONDUIT AND WIRING FROM THE ELECTRIC PANEL UP TO BUT NOT INCLUDING THE SPEED CONTROLLER SHALL BE BY THE ELECTRICAL CONTRACTOR. THE SPEED CONTROLLER AND ALL CONDUIT AND WIRING BETWEEN THE CONTROLLER COMPONENTS AND THE UNIT SHALL BE BY THE MECHANICAL CONTRACTOR AND SHALL CONFORM TO THE ELECTRICAL SPECIFICATIONS AND CONTRACT DRAWINGS.
- EC SHALL PROVIDE DISCONNECTS, OCCUPANCY SENSORS AND ALL CONDUCTORS, RACEWAY AND BOXES TO EXHAUST FANS. EC SHALL CONNECT MC'S VARIABLE SPEED CONTROLLER TO DISCONNECT (BY EC), WALL OCCUPANCY SENSOR (BY EC) AND POWER FEED (BY EC) AND PROVIDE REQUIRED RACEWAY AND CONDUCTORS. COORDINATION NOTE: EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR. POWER CONNECTION AND OCCUPANCY CONTROLS, CONDUCTORS, RACEWAY BY ELECTRICAL CONTRACTOR.
- GENERAL CONTRACTOR SHALL PROVIDE ALL PLATE PROTECTION FOR CONCEALED ELECTRICAL CONDUCTORS AND PLUMBING LINES AT ALL PLATES AND STUDS AS REQUIRED.
- DO NOT CUT THRU FRAMING UNLESS APPROVED BY DIRECTOR'S REPRESENTATIVE.
- ALL DUCTWORK/HVAC EQUIPMENT SHALL BE A MINIMUM OF 7'-6" ABOVE FINISHED FLOOR.

### DRAWING SYMBOLS



### APPLICABLE CODES

- BUILDING CODE OF NEW YORK STATE
- ENERGY CODE OF NEW YORK STATE
- MECHANICAL CODE OF NEW YORK STATE
- FIRE CODE OF NEW YORK STATE
- PLUMBING CODE OF NEW YORK STATE
- ENERGY CONSERVATION CODE OF NEW YORK STATE
- ACCESSIBLE AND USABLE BUILDING AND FACILITIES - CODEBOOKS A117.1
- NATIONAL ELECTRIC CODE
- NATIONAL FIRE CODE NFPA 13

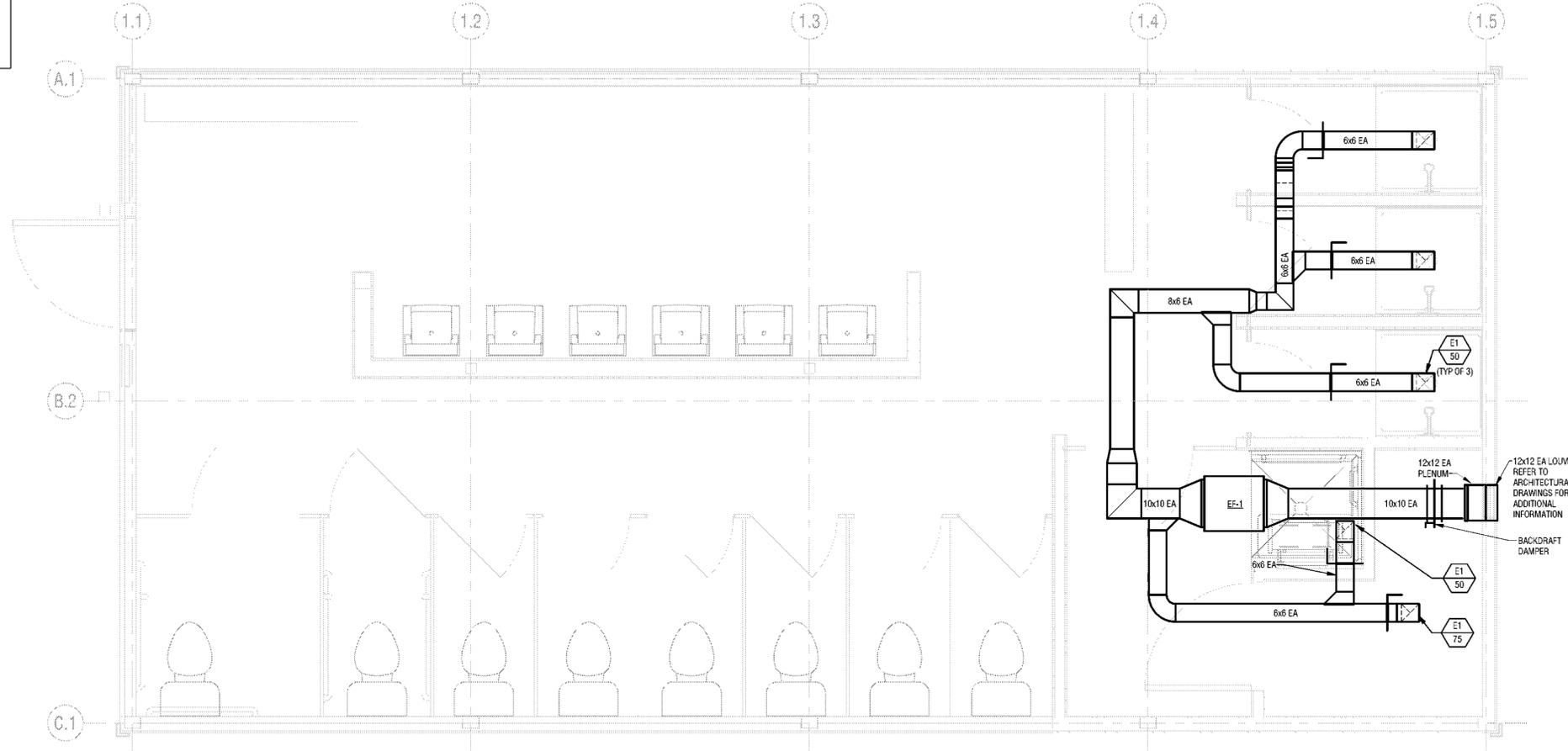
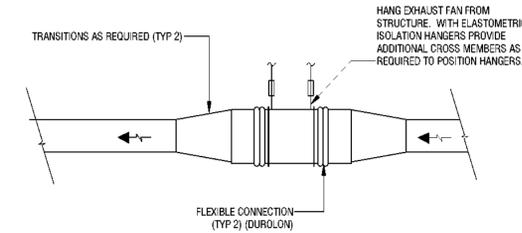
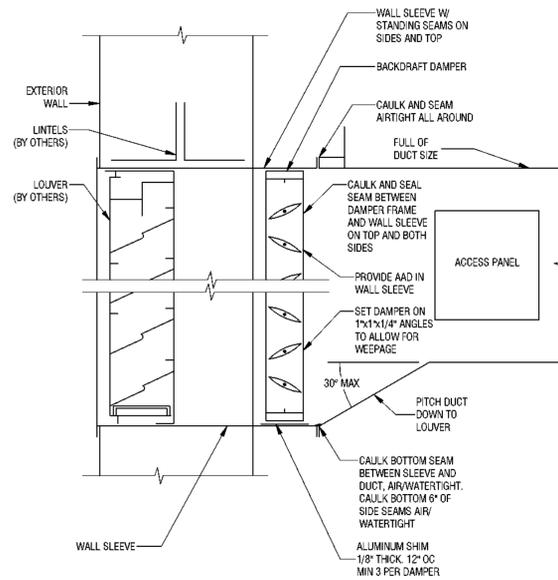
### EXHAUST FAN SCHEDULE

UNIT	SERVICE	CFM	ESP (IN WG)	DRIVE TYPE	FAN TYPE	FAN RPM	MAX SOUNE LEVEL	MOTOR DATA			DESIGN BASIS	NOTES	
								RPM	VOLT	PH			
EF-1	BUILDING EXHAUST - BATHHOUSE 231	275	1.0	DIRECT	CENTRIFUGAL	1570	13	1550	115	1	1/6	LOREN COOK 120SDM17D	1,2,3
EF-2	BUILDING EXHAUST - BATHHOUSE 322	275	1.0	DIRECT	CENTRIFUGAL	1570	13	1550	115	1	1/6	LOREN COOK 120SDM17D	1,2,3

- NOTES:**
- PROVIDE WITH FACTORY MOUNTED DISCONNECT.
  - PROVIDE WITH FACTORY MOUNTED FAN SPEED CONTROLLER.
  - EXHAUST FAN SHALL BE CONTROLLED BY OCCUPANCY SENSOR (PROVIDED BY EC).

### REGISTER, GRILLES, AND DIFFUSERS

TYPE	SERVICE	DESCRIPTION	MAX NO.	DESIGN BASIS	NOTES
E1	EXHAUST	HEAVY DUTY GRILLE - 10x10 SIZE	25	TITUS 63FL	-



**1 BATHHOUSE 231 AND 322 MECHANICAL PLAN**  
M101 1/2" = 1'-0"

**New York State Parks, Recreation and Historic Preservation**  
Governor Kathy Hochul Commissioner Erik Kulesseid

**ARCHITECT:** Saratoga Associates, 21 Congress Street, Suite 201, Saratoga Springs, NY 12866  
SARATOGA ASSOCIATES, Landscape Architects, Architects, Engineers, and Planners, P.C.

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Certificate of Authorization Number: Professional Engineering 015281, Land Surveying 017978, Geological 018750

**Palisades Region**  
Palisades Interstate Park Commission  
Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

### Key Plan

**REVISIONS**

Rev No	Description	Date

Drawn By: **NAF**  
Design By: **NAF**  
Checked By: **JMD**  
Approved By: **JMD**  
Date: **3/16/2023**  
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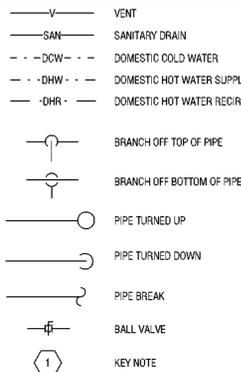
Seal and Signature: **JEFFREY M. DAVIS**, Professional Engineer, No. 076827

**Sheet Title:** CAMP JUNIOR MECHANICAL PLANS  
**Bid Documents**  
Project Number: 2222163.05

Drawing Number: **M101**  
Sheet:  

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**DRAWING SYMBOLS**



**APPLICABLE CODES**

- BUILDING CODE OF NEW YORK STATE
- MECHANICAL CODE OF NEW YORK STATE
- FIRE CODE OF NEW YORK STATE
- PLUMBING CODE OF NEW YORK STATE
- ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE
- ACCESSIBLE AND USABLE BUILDING AND FACILITIES-CABO/ANSI A117.1
- NATIONAL ELECTRIC CODE
- NFPA 13: STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

**EQUIPMENT DESIGNATIONS**

CO	CLEANOUT
DWH	DOMESTIC WATER HEATER
ET	EXPANSION TANK
EW	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
HB	HOSE BIBB
LAV	LAVATORY
MS	MOP SINK
P	PUMP
SA	SHOCK ABSORBER (WATER HAMMER ARRESTOR)
SH	SHOWER
UR	URINAL
WC	WATER CLOSET
WCO	WALL CLEANOUT

**GENERAL NOTES**

- DO NOT SHUT DOWN ANY PLUMBING OR RELATED SYSTEMS WITHOUT BUILDING OWNER'S PRIOR WRITTEN APPROVAL. FOLLOW ALL OWNER REQUIREMENTS AND SHUT DOWN PROCEDURES AS WELL AS ALL REQUIREMENTS OF THIS PROJECT.
- IF REQUIRED, PROVIDE SHUT DOWNS AND TIE-INS DURING OFF HOURS TO AVOID DISRUPTION OF BUILDING SYSTEMS. COORDINATE ALL SHUT DOWN REQUIREMENTS PRIOR TO SUBMITTING BID (INCLUDE ALL REQUIRED DURING OFF HOURS IN BID).
- PROVIDE ALL WORK IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES. OBTAIN ALL REQUIRED PERMITS.
- PROVIDE ALL REQUIRED EXCAVATION, BACKFILL AND COMPACTION FOR ALL UNDERGROUND WORK.
- FIELD VERIFY EXACT LOCATION, DEPTH, COMPOSITION AND CONDITION OF ALL PIPING, VALVES AND SYSTEMS AS REQUIRED FOR WORK OF THE CONTRACT.
- PROVIDE SCHEDULE 40 BLACK STEEL PIPE SLEEVES FOR ALL UNDERGROUND PIPING PASSING THROUGH OR UNDER FOOTINGS, WALLS, FOUNDATION WALLS, SLABS FLOORS AND/OR UNDERGROUND STRUCTURES. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- WHERE PIPING IS LOCATED OVER FOOTINGS AND/OR OTHER UNDERGROUND STRUCTURES, ROLL DOWN AS REQUIRED TO CONNECT TO SYSTEMS NOTED. PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND CONNECTIONS.
- PITCH ALL SANITARY, WASTE, AND STORM PIPING AS FOLLOWS: PIPING SMALLER THAN 3", PITCH AT 2 PERCENT (1/4" PER FOOT) MINIMUM. 3" AND LARGER, PITCH AT 1 PERCENT (1/8" PER FOOT) MINIMUM.
- CONNECT TO SITE PIPING OUTSIDE BUILDING AS SHOWN. PROVIDE ALL REQUIRED OFFSETS, FITTINGS AND CONNECTIONS. FIELD VERIFY EXACT LOCATION, DEPTH AND COMPOSITION OF SITE SERVICES AND COORDINATE ALL WORK WITH SITE CONTRACTOR.
- COORDINATE ALL VENT TERMINATIONS ABOVE ROOF WITH HVAC CONTRACTOR. ALL VENT TERMINATIONS ABOVE ROOF SHALL BE A MINIMUM 10'-0" AWAY FROM ANY HVAC OUTSIDE AIR INTAKE (ROOFTOP UNIT, LOUVER, ETC.).
- PROVIDE SINGLE HOSE BIBB WITH VACUUM BREAKER (HB) UNDER LAVATORY(S) IN ALL TOILET ROOMS WITH FLOOR DRAINS. ONE REQUIRED PER ROOM.
- REFER TO ARCHITECTURAL DRAWINGS AND THE PROJECT SPECIFICATIONS FOR ANY PROJECT PHASING REQUIREMENTS.
- THE ENTIRE PLUMBING SYSTEM SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE PLUMBING CODE OF NEW YORK STATE AND LOCAL PLUMBING INSPECTOR.
- CONTRACTOR SHALL COORDINATE AND PROVIDE ALL NECESSARY PIPING & PLUMBING FITTINGS, PIPING, MISCELLANEOUS ITEMS REQUIRED FOR A COMPLETE INSTALLATION OF ALL PLUMBING RELATED ITEMS.
- PITCH ALL POTABLE WATER PIPING TO DRAIN BEFORE BUILDING SHUTOFF.
- ALL PIPING PENETRATIONS THROUGH NEW WALL OR FLOOR SHALL BE SEALED TO EQUAL THE RATING OF THE NEW, EXISTING WALL OR FLOOR.
- THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE TO THE LOCAL CODE & HEALTH DEPARTMENT REQUIREMENTS.
- THE BACKFLOW PREVENTION DEVICE SHALL BE INSTALLED PER STATE AND LOCAL CODE & PER AUTHORITY HAVING JURISDICTION REQUIREMENTS.
- ALL (VTR'S) VENT THRU ROOF PENETRATIONS INDICATED ON PLANS ARE PRELIMINARY. FINAL LOCATIONS SHALL BE COORDINATED WITH ALL TRADES.
- CONTRACTOR SHALL INSULATE ALL PLUMBING PIPING PER SPECIFICATION.
- MAINTAIN 3'-0" CLEARANCE IN FRONT OF ALL DOMESTIC WATER SYSTEM PIPING COMPONENTS AND ELECTRICAL DISTRIBUTION PANELS.
- COORDINATE ELECTRICAL AND PLUMBING TRADES. DO NOT LOCATE PIPING ABOVE ELECTRICAL DISTRIBUTION PANELS, WITHIN 6'-0" ABOVE THE TOP OF THE PANEL (OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER).
- THE PLUMBING CONTRACTOR SHALL COORDINATE ALL VERTICAL AND HORIZONTAL RUNS WITH GENERAL CONTRACTOR PRIOR TO TRACING. GENERAL CONTRACTOR SHALL PROVIDE ALL PLATE PROTECTION FOR CONCEALED LINES AT ALL PLATES AND STUDS AS REQUIRED. DO NOT CUT THRU FRAMING UNLESS APPROVED BY DIRECTOR'S REPRESENTATIVE.
- ALL WORK ON THESE PLUMBING DRAWINGS SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE.
- COORDINATE LOCATION AND ROUTING OF PLUMBING LINES WITH OTHER TRADES.

**ELECTRIC WATER HEATER SCHEDULE**

UNIT	BUILDING	SERVICE	LOCATION	ELECTRICAL DATA	DIMENSIONS	MANUFACTURER	MODEL	NOTES	
				TOTAL WATTS	V/PH/Hz				
EW-1	BATHHOUSE 231	DOMESTIC HOT WATER	MECH ROOM	12300	240/1/60	30" x 70" H	LOCHINVAR	LCA-120AKW	-
EW-2	BATHHOUSE 322	DOMESTIC HOT WATER	MECH ROOM	12300	240/1/60	30" x 70" H	LOCHINVAR	LCA-120AKW	-
EW-3	LATRINE 427	DOMESTIC HOT WATER	UNDER SINK	1400	115/1/60	9" L x 9" W x 15" H	EEMAX	EMT1	-
EW-4	LATRINE 427	DOMESTIC HOT WATER	UNDER SINK	1400	115/1/60	9" L x 9" W x 15" H	EEMAX	EMT1	-

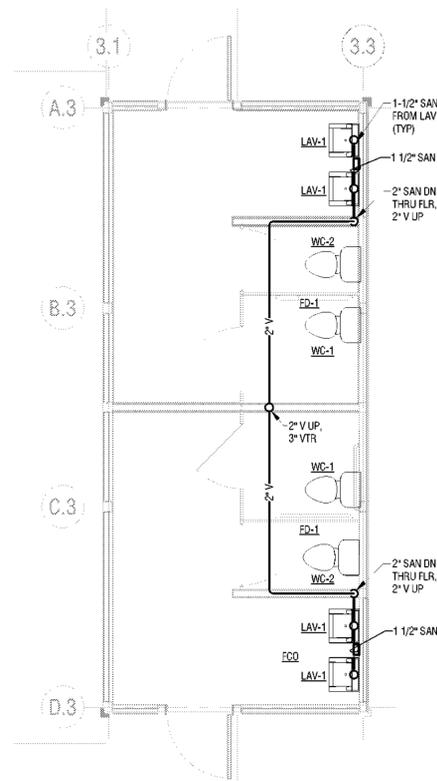
**PLUMBING FIXTURE SCHEDULE**

UNIT	TRIM	PIPING CONNECTION (IN)	SUPPORT	REMARKS	MANUFACTURER	MODEL
		COLD	HOT	SAN/W	VENT	
HB-1	-	1/2	-	-	-	WALL MOUNTED
SH-1	-	1/2	1/2	3	2	WALL MOUNTED
SH-2	-	1/2	1/2	3	2	WALL MOUNTED
WC-1	A	1/2	-	4	2	FLOOR MOUNTED
WC-2	A	1/2	-	4	2	FLOOR MOUNTED
LAV-1	B	1/2	1/2	1-1/2	1-1/2	WALL MOUNTED
LAV-2	C	1/2	1/2	1-1/2	1-1/2	WALL MOUNTED
FD-1	D	-	-	3	2	FLOOR MOUNTED
MS-1	E	3/4	3/4	3	2	FLOOR MOUNTED

- FIXTURE TAIL:**
- 1/2" STAINLESS STEEL BRAIDED HOSE SUPPLY WITH ESCUTCHEON AND 1/4" TURN ANGLE STOP. 1.23 GPM. HEAVY WEIGHT INJECTION MOLDED SOLID PLASTIC, BLACK ELONGATED SEAT, OPEN FRONT LESS COVER WITH STAINLESS STEEL SELF SUSTAINING CHECK HINGES, SIMILAR TO BEMIS MODEL 1956-SST. PROVIDE FLOOR FLANGE, SEALANT AND ANCHOR BOLTS.
  - DECK MOUNTED CHROME PLATED DIE-CAST METAL FAUCET WITH INFRARED SENSOR, BATTERY POWER SUPPLY, MULTI-LAMINAR SPRAY, 0.50 GPM. SIMILAR TO SLOAN SF-2450-4-BAT-TEE-CP-0.50GPM-MLM-IR-FCT. ASSE 1070 APPROVED TEMPERING VALVE. SIMILAR TO POWERS MODEL LF480. CHROME PLATED CAST BRASS GRID STRAINER WITH 1-1/4" TAILPIECE, SIMILAR TO MCGUIRE MODEL 8902. CHROME PLATED CAST BRASS SUPPLIES WITH LOOSE KEY ANGLE STOP AND SET-SCREW ESCUTCHEON. PROVIDE TRAP AND SUPPLY COVERING TO MEET ADA REQUIREMENTS, SIMILAR TO "PRO-WRAP".
  - DECK MOUNTED CHROME PLATED DIE-CAST METAL WRIST HANDLES, NON-METERING, 0.50 GPM, 4" CENTERSET, 4" RIGID SPOUT, SIMILAR TO GERBER G044542. ASSE 1070 APPROVED TEMPERING VALVE. SIMILAR TO POWERS MODEL LF480. CHROME PLATED CAST BRASS GRID STRAINER WITH 1-1/4" TAILPIECE, SIMILAR TO MCGUIRE MODEL 8902. CHROME PLATED CAST BRASS SUPPLIES WITH LOOSE KEY ANGLE STOP AND SET-SCREW ESCUTCHEON.
  - DEEP SEAL P-TRAP AND ASSE 1072 APPROVED MECHANICAL SEAL, SIMILAR TO "SURE-SEAL".
  - CHROME PLATED CAST BRASS WALL FAUCET WITH VACUUM BREAKER, PAIL HOOK, WALL BRACE AND HOSE OUTLET, SIMILAR TO FIAT MODEL 830-AA. STAINLESS STEEL HOSE BRACKET WITH RUBBER GRIP AND HOSE, SIMILAR TO FIAT MODEL 832-AA. STAINLESS STEEL MOP HANGER SIMILAR TO FIAT MODEL 889-CC. VINYL BUMPER GUARDS ON EXPOSED EDGES SIMILAR TO FIAT MODEL E-77-AA. STAINLESS STEEL WALL GUARDS ON ADJACENT WALLS SIMILAR TO FIAT MODEL MS22424.

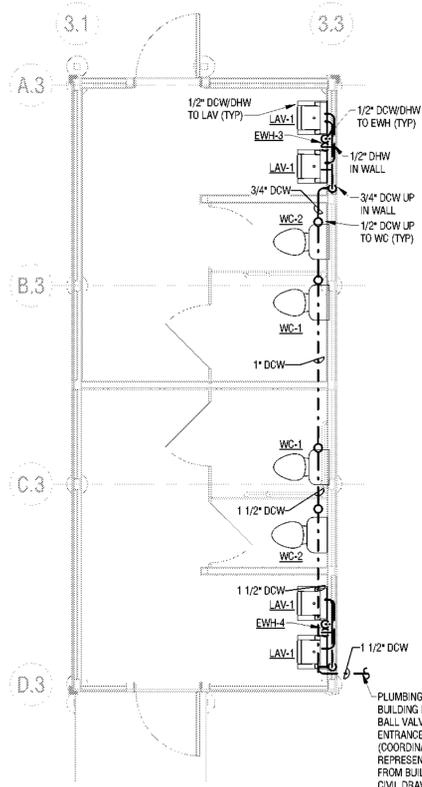
**RECIRCULATION PUMP SCHEDULE**

UNIT	LOCATION	GPM	FEET OF HEAD	PUMP HP (WATTS)	VOLTS	AMPS	MANUFACTURER	MODEL	NOTES
RP-1	WATER SERVICE ROOM	6	5	25	115	0.23	GRUNDFOS	UP15-10	-



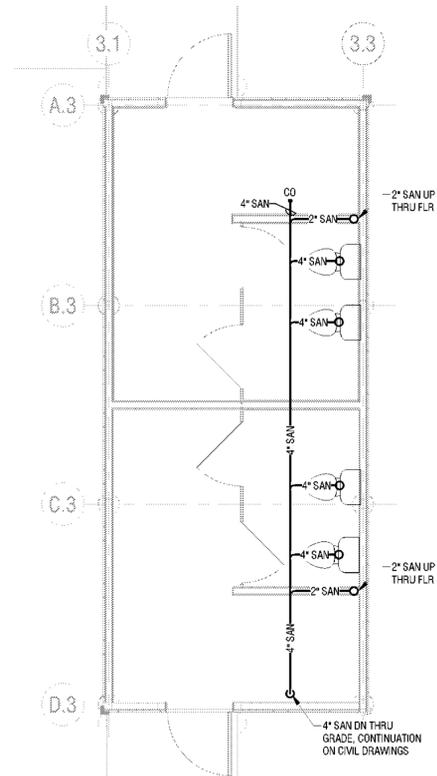
**LATRINE 427 PLUMBING PLAN - SANITARY/VENT**

5  
P101  
1/4" = 1'-0"



**LATRINE 427 PLUMBING PLAN - DOMESTIC**

7  
P101  
1/4" = 1'-0"



**LATRINE 427 PLUMBING PLAN - UNDERFLOOR SANITARY/VENT**

4  
P101  
1/4" = 1'-0"

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Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

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**NAF**

Design By:  
**NAF**

Checked By:  
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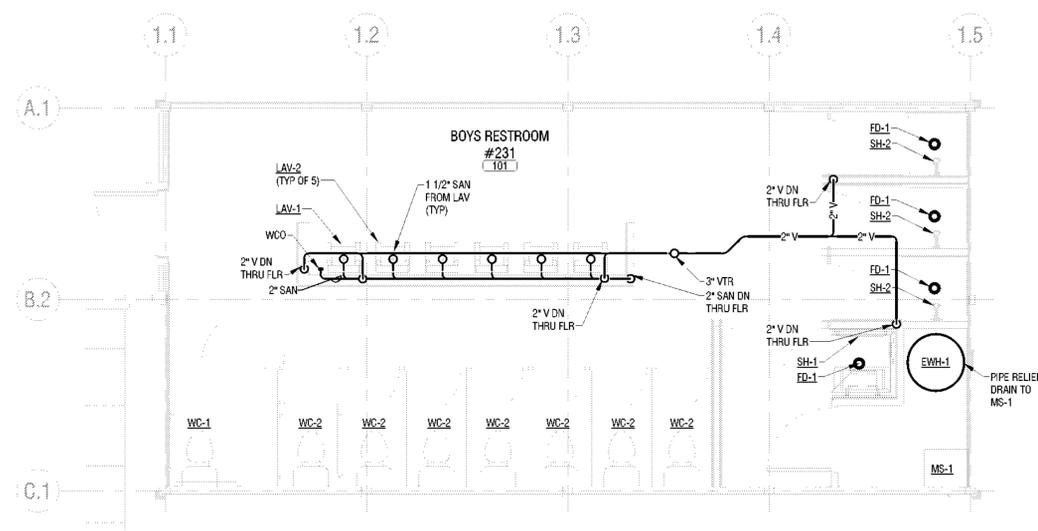
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Rev No	Description	Date

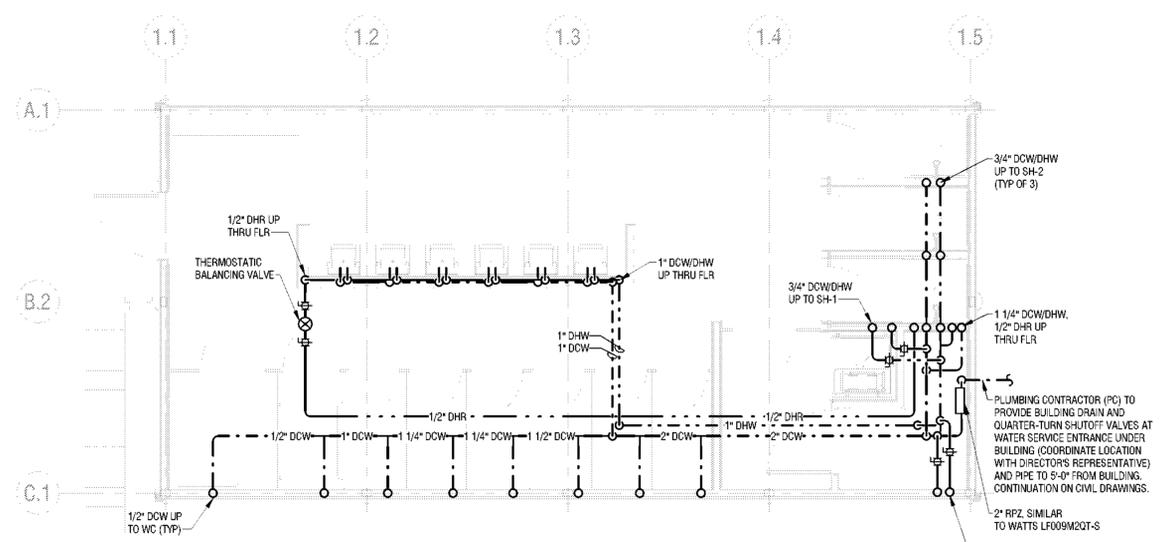
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 Drawing Number: **P102**

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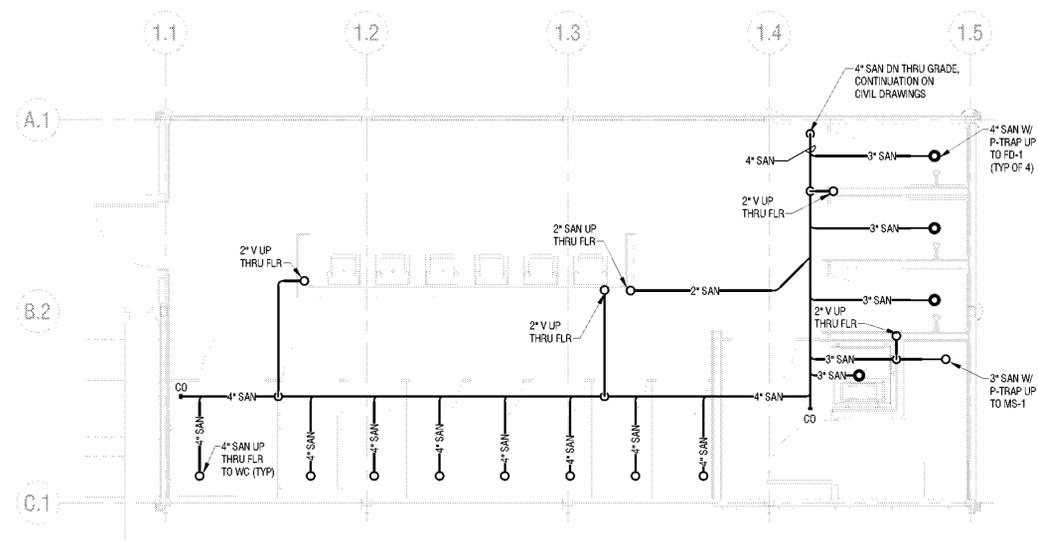

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 Project Number: **2222163.05**  
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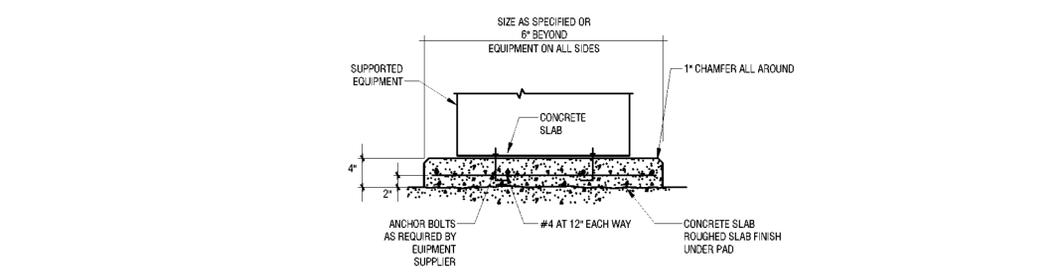
**3 BATHHOUSE 231 AND 322 PLUMBING PLAN - SANITARY/VENT**  
 P102 1/4" = 1'-0"



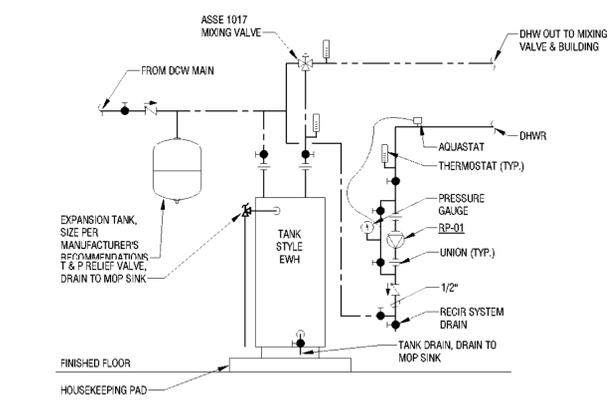
**2 BATHHOUSE 231 & 322 PLUMBING PLAN - UNDERFLOOR DOMESTIC**  
 P102 1/4" = 1'-0"



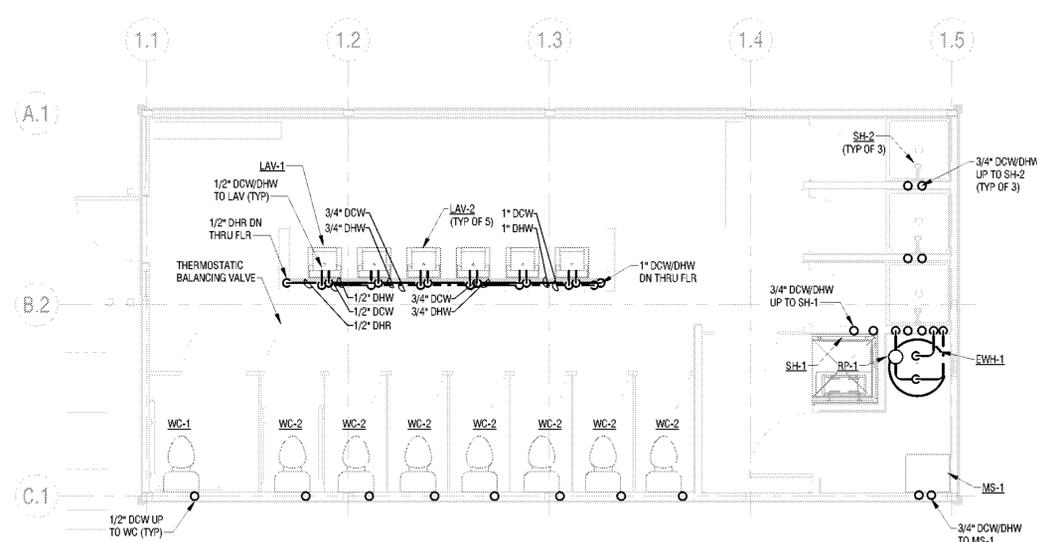
**1 BATHHOUSE 231 & 322 PLUMBING PLAN - UNDERFLOOR SANITARY/VENT**  
 P102 1/4" = 1'-0"



**6 HOUSEKEEPING PAD DETAIL**  
 P102 NONE



**5 TANK TYPE ELECTRIC WATER HEATER DETAIL**  
 P102 NONE



**4 BATHHOUSE 231 AND 322 PLUMBING PLAN - DOMESTIC**  
 P102 1/4" = 1'-0"

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**ELECTRICAL NOTES, SYMBOL LEGEND, & ABBREVIATIONS**

Drawing Number:  
**E001**

Bid Documents

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Sheet:

**ELECTRICAL LEGEND**

**ELECTRICAL GENERAL NOTES**

- FOR EXACT LOCATIONS AND SURFACE FINISH CONDITIONS OF CEILINGS, WALLS, OR FLOORS, REFER TO ARCHITECTURAL DRAWINGS.
- FOR EXACT LOCATION OF FACILITY EXPANSION JOINTS, FIRE RATED WALLS, AND SMOKE WALLS, REFER TO ARCHITECTURAL DRAWINGS.
- VERIFY EXACT LOCATION OF CONNECTION POINTS PRIOR TO ROUGH-IN.
- COORDINATE LOCATIONS OF ALL RECEPTACLES AND LUMINAIRES IN MECHANICAL SPACES WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN TO AVOID CONFLICTS WITH EQUIPMENT AND DUCTWORK.
- MOUNTING HEIGHTS ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS NOTED OTHERWISE. EXCEPT FOR PENDANT LIGHTING WHICH ARE TO THE BOTTOM OF THE LUMINAIRE. FOR AREAS WITH DIFFERENT FLOOR LEVELS, HEIGHT IS BASED UPON CLOSEST FLOOR OR LANDING TO DEVICE, EQUIPMENT, OR LUMINAIRE. ELEVATIONS GIVEN ON LEGEND SHEET ARE UNLESS NOTED OTHERWISE ON DRAWINGS.
- PROVIDE RACEWAY, WIRE AND CABLE, ASSOCIATED FITTINGS AND CONNECTORS, AND COMPLETE CONNECTIONS REQUIRED FOR DESIGNATED BRANCH CIRCUITS FROM DEVICE(S) TO FINAL OVERCURRENT DEVICE AND TO LOCAL CONTROL DEVICE(S) PER SPECIFICATIONS.
- MINIMUM BRANCH CIRCUIT WIRE SIZE SHALL BE #12 AWG. SIZE BRANCH CIRCUIT CONDUCTORS AS PER NEC AND AS SCHEDULED ON THIS DRAWING BASED ON ACTUAL CIRCUIT DISTANCE. INCLUDE GROUND CONDUCTOR DERATINGS.
- PULL A SEPARATE NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS REQUIRING A NEUTRAL CONNECTION. DERATE CONDUCTORS PER NEC ACCORDINGLY. MULTIWIRE BRANCH CIRCUITS ARE NOT ACCEPTABLE.
- PROVIDE GROUNDING PER NEC & TIA 607B. PROVIDE GREEN GROUND CONDUCTOR IN ALL BRANCH AND FEEDER CIRCUITS.
- DO NOT INSTALL ANY NEW WORK DIRECTLY ABOVE ANY ELECTRICAL PANELS, SWITCHBOARDS, SWITCHGEAR, OR TRANSFORMERS.
- CONFIRM ALL LABELS AND ROOM NUMBERS WITH OWNER PRIOR TO FINALIZING LABELING AND PROGRAMMING.
- COORDINATE FINAL OUTLET LOCATION WITH ALL TRADES AND FURNITURE/MILLWORK PLACEMENT PRIOR TO ROUGH-IN. GENERAL CONTRACTOR SHALL PROVIDE ALL DRILLING AND GROMMETTING IN FURNITURE/CASEWORK FOR CORD ACCESS IF REQUIRED.
- SWITCHES SHOWN SIDE BY SIDE OR GANGED SHALL BE INSTALLED UNDER A COMMON COVERPLATE, UNLESS NOTED OTHERWISE.
- PROVIDE FIRESTOPPING AT ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS, CEILINGS, & ROOFS AS CALLED OUT ON ARCHITECTURAL PLANS. PROVIDE ACOUSTICAL SEALANT AT PENETRATIONS THROUGH ALL NON-FIRE RATED WALLS, FLOORS, & CEILINGS.
- PROVIDE CONDUIT EXPANSION JOINTS AT ALL EXPANSION JOINTS AS CALLED OUT ON ARCHITECTURAL PLANS.
- SITE PLAN CONDUIT ROUTING SHOWN FOR INTENT. REFERENCE CIVIL DRAWINGS FOR UNDERGROUND COORDINATION AND DISTANCE OF RUNS. COORDINATE WITH ALL TRADES.
- WORK INDICATED ON THIS SHEET SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR (EC) UNLESS OTHERWISE NOTED.
- COORDINATE ALL WORK WITH THE WORK OF ALL OTHER CONTRACTORS.
- ELECTRICAL CONTRACTOR (EC) SHALL PROVIDE CIRCUIT BREAKER, RACEWAY AND CONDUCTORS TO FEED EWH-1, ALONG WITH SAFETY DISCONNECT SWITCH FOR SAME.
- ELECTRICAL CONTRACTOR (EC) SHALL PROVIDE CIRCUIT BREAKER, RACEWAY AND CONDUCTORS TO FEED EWH-2, ALONG WITH SAFETY DISCONNECT SWITCH FOR SAME.
- EC SHALL PROVIDE DISCONNECTS, OCCUPANCY SENSORS AND ALL CONDUCTORS, RACEWAY AND BOXES TO EXHAUST FANS. EC SHALL CONNECT MC'S VARIABLE SPEED CONTROLLER TO DISCONNECT (BY EC), WALL OCCUPANCY SENSOR (BY EC) AND POWER FEED (BY EC) AND PROVIDE REQUIRED RACEWAY AND CONDUCTORS.
- THE CONDUIT AND WIRING FROM THE ELECTRIC PANEL UP TO BUT NOT INCLUDING THE SPEED CONTROLLER SHALL BE BY THE ELECTRICAL CONTRACTOR. THE SPEED CONTROLLER AND ALL CONDUIT AND WIRING BETWEEN THE CONTROLLER COMPONENTS AND THE UNIT SHALL BE BY THE MECHANICAL CONTRACTOR AND SHALL CONFORM TO THE ELECTRICAL SPECIFICATIONS AND CONTRACT DRAWINGS.
- COORDINATION NOTE: EXHAUST FAN PROVIDED BY MECHANICAL CONTRACTOR. POWER CONNECTION AND OCCUPANCY CONTROLS, CONDUCTORS, RACEWAY BY ELECTRICAL CONTRACTOR.

**ABBREVIATIONS**

°	DEGREES	kAIC	KILOAMPERE INTERRUPTING CURRENT
Δ	DELTA	kAIR	KILOAMPERE INTERRUPTING RATING
Ω	OHMS	KO	KNOCK OUT
Φ	PHASE	kV	KILOVOLT
Y	WYE	kVA	KILOVOLT-AMPERE
		kW	KILOWATT
A	AMPERE	kWh	KILOWATT HOUR
AFI	ARC-FAULT CIRCUIT INTERRUPTING	LED	LIGHT EMITTING DIODE
AF	AMPERE FUSE	LTG	LIGHTING
AFB	ABOVE FINISHED FLOOR	LV	LOW VOLTAGE
AFS	AMPERE FRAME SIZE	MC	MECHANICAL CONTRACTOR
AFG	ABOVE FINISHED GRADE	MCA	MINIMUM CIRCUIT AMPERES
AHJ	AUTHORITY HAVING JURISDICTION	MCB	MAIN CIRCUIT BREAKER
AH	AIR HANDLING UNIT	MECH	MECHANICAL
AIC	AMPERE INTERRUPTING CAPACITY	MFR	MANUFACTURER
ALUM	ALUMINUM	MZ	MARKLE
AM	AMMETER	MIN	MINIMUM
ANN	ANNUNCIATOR	MLO	MAIN LUGS ONLY
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	NEC	NATIONAL ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	NEQA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
AV	AUDIO VISUAL	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
AVG	AVERAGE	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GAUGE	NL	NIGHT LIGHT
		NTS	NOT TO SCALE
BFC	BELOW FINISHED CEILING	OC	ON CENTER
BFG	BELOW FINISHED GRADE	OH	OVERHEAD
BLDG	BUILDING	P	POLE
		PA	PUBLIC ADDRESS
CND	CONDUIT	PB	PULLBOX
CB	CIRCUIT BREAKER	PC	PERSONAL COMPUTER
CKT	CIRCUIT	PH	PHASE
CLG	CEILING	PANL	PANEL
CM	CONSTRUCTION MANAGER	PLC	PROGRAMMABLE LOGIC CONTROLLER
CO	COMPANY	POE	POWER OVER ETHERNET
CU	COPPER	PRI	PRIMARY
		PT	POTENTIAL TRANSFORMER
DC	DIRECT CURRENT	PTZ	PAN TILT ZOOM
DA	DIAMETER	PVC	POLYVINYL CHLORIDE
DISC	DISCONNECT	PWR	POWER
DN	DOWN	RCP	REFLECTED CEILING PLANS
DWG	DRAWING	RECP	RECEPTACLE
		RMC	RIGID METAL CONDUIT
EA	EACH	SCHED	SCHEDULE
EC	ELECTRICAL CONTRACTOR	SEC	SECONDARY
ECB	ENCLOSED CIRCUIT BREAKER	SPT	SINGLE POLE DOUBLE THROW
EF	EXHAUST FAN	SPST	SINGLE POLE SINGLE THROW
EGC	EQUIPMENT GROUNDING CONDUCTOR	TYP	TYPICAL
ELEC	ELECTRIC	UGND	UNDERGROUND
EMT	ELECTRICAL METALLIC TUBING	UNO	UNLESS NOTED OTHERWISE
EQUIP	EQUIPMENT	V	VOLT
EXH	EXHAUST	VA	VOLT-AMPERE
		W	WATT
FLR	FLOOR	WAN	WIRELESS ACCESS POINT
FU SW	FUSED SWITCH	WAP	WEATHERPROOF COVER
FTL	FEED THRU LUGS	WR	WEATHER RESISTANT
		WR	WIRE SIZING AMPS
GC	GENERAL CONTRACTOR	XFMR	TRANSFORMER
GEC	GROUND ELECTRODE CONDUCTOR		
GEN	GENERATOR		
GFCI	GROUND FAULT CIRCUIT INTERRUPTING		
GFI	GROUND FAULT INTERRUPTING		
G	GROUND		
HP	HORSEPOWER		
HTR	HEATER		
ID	INSIDE DIAMETER		
IMC	INTERMEDIATE METAL CONDUIT		
J-BOX	JUNCTION BOX		

**DEVICE SUBSCRIPTS**

- ROMAN NUMERAL INDICATES QUANTITY OF GANGED DEVICES UNDER COMMON FACEPLATE  
HEIGHT OF DEVICE ABOVE FINISHED FLOOR (IN INCHES)  
LOWER CASE LETTER(S) INDICATES SWITCH CONTROL ARRANGEMENT  
NUMERAL INDICATES BRANCH CIRCUIT NUMBER (POWER & LIGHTING)/CANDELA RATING (FIRE ALARM DEVICES)  
WITH AUXILIARY CONTACTS
- A  
AC  
B  
BF  
CD  
CH  
CL  
CLS  
C\*  
COP  
COF  
D  
E  
EN  
EQ  
ER  
EPL  
ETR  
EWC  
EXP  
FL  
FB  
FRA  
GFCI  
GFI  
GFP  
H  
HA  
IG  
K  
L  
LV  
M  
M\*  
MCW  
N  
NIC  
NL  
NLG  
O  
P  
PH  
PI  
PJ  
PP  
R\*  
REF  
S  
SP  
SR  
SW  
T  
TR  
TS  
TV  
UC  
USB  
VEND  
V  
W  
WG  
WPS  
WR  
Z\*
- INSTALL ABOVE COUNTER, AT 40" AFF. COORDINATE WITH GC  
REMOVE DEVICE AND INSTALL BLANK COVERPLATE  
BLANKFACE GFCI  
CORD DROP RECEPTACLE  
CLOCK HANGER RECEPTACLE  
INSTALL FLUSH IN CEILING  
INSTALL ON SURFACE OF CEILING  
CONTROL POINT IDENTIFIER (\*) INDICATES CONTROL NUMBER)  
RECEPTACLE FOR COFFEE, INSTALL 18" AFF  
RECEPTACLE FOR COFFEE, INSTALL 44" AFF  
DIMMER SWITCH (LIGHTING CONTROL)  
EXISTING BACKBOX TO REMAIN AND BE REUSED  
EXISTING BACKBOX WITH NEW DEVICE  
EQUIPMENT SUPPLIED BY OWNER  
INSTALL IN EQUIPMENT/CASEWORK  
EXISTING TO BE REMOVED  
EXISTING TO BE RELOCATED  
EXISTING TO REMAIN  
RECEPTACLE FOR WATER COOLER. COORDINATE EXACT LOCATION WITH GC & PC PRIOR TO ROUGH-IN  
EXPLOSION PROOF  
INSTALL FLUSH IN FLOOR  
INSTALL IN FLOORBOX/POCKETTHRU  
FIRE RATED ASSEMBLY  
GROUND FAULT CIRCUIT INTERRUPTING RECEPTACLE  
GROUND FAULT CIRCUIT INTERRUPTING BREAKER PROTECTED  
FEED THROUGH GROUND FAULT CIRCUIT INTERRUPTING PROTECTED  
INSTALL HORIZONTALLY  
HIGH ABUSE COVERPLATE WITH CENTER PIT REJECT SCREWS  
ISOLATED GROUND RECEPTACLE  
KEY OPERATED  
LOCATOR STYLE TOGGLE SWITCH (PILOT LIGHT ON WHILE DEVICE IS OFF OR UNPOWERED)  
LOW VOLTAGE  
INSTALL IN MULLION  
MONITORING POINT IDENTIFIER (\*) INDICATES MONITORING POINT NUMBER)  
RECEPTACLE FOR MICROWAVE, INSTALL IN UPPER CABINET, COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN  
INDICATES NEW DEVICE  
NOT IN CONTRACT/PROVIDE BY OTHERS  
NIGHT LIGHT LUMINAIRE (UNSWITCHED) / INTEGRAL NIGHT LIGHT STYLE RECEPTACLE  
INTEGRAL NIGHT LIGHT STYLE GFCI RECEPTACLE  
OCCUPANCY SENSOR (AUTOMATIC ON LIGHTING SENSOR SWITCH)  
PILOT STYLE TOGGLE SWITCH (PILOT LIGHT ON WHILE DEVICE IS ON OR POWERED)  
FOR PHONE, INSTALL 54" AFF  
POWER INDICATING RECEPTACLE  
RECEPTACLE FOR PROJECTOR, INSTALL FLUSH IN CEILING  
BACKBOX FOR AUTODOOR PUSH PLATE  
RELAY DESIGNATION (\*) INDICATES RELAY NUMBER)  
RECEPTACLE FOR REFRIGERATOR, INSTALL 44" AFF  
INSTALL ON SURFACE  
SURGE PROTECTOR STYLE RECEPTACLE  
INSTALL IN SURFACE RACEWAY  
SPLIT WIRED RECEPTACLE FOR REMOTE SWITCHING  
DIGITAL ELECTRONIC INTERVAL TIMER (LIGHTING SWITCH)  
TAMPER RESISTANT  
DIGITAL ELECTRONIC PROGRAMMABLE TIME SWITCH (LIGHTING SWITCH)  
FOR TELEVISION MONITOR, INSTALL 72" AFF  
INSTALL UNDER COUNTER. COORDINATE EXACT LOCATION WITH GC PRIOR TO ROUGH-IN  
RECEPTACLE WITH USB CHARGING PORTS  
RECEPTACLE FOR VENDING MACHINE, INSTALL 44" AFF  
VACANCY SENSOR (MANUAL ON LIGHTING SENSOR SWITCH)  
INSTALL 44" AFF  
WIRE GUARD  
WEATHERPROOF DEVICE / WEATHERPROOF WHILE-IN-USE EXTRA DUTY COVER & WEATHER RESISTANT RECEPTACLE  
WEATHERPROOF SPRING LOADED COVER (WEATHERPROOF WHEN CLOSED), WEATHER RESISTANT RECEPTACLE  
WEATHER RESISTANT DEVICE/WEATHER RESISTANT RECEPTACLE  
DEVICE ZONE IDENTIFIER (\*) INDICATES ZONE NUMBER)

**GENERAL LINEWORK DESCRIPTIONS & DRAWINGS NOTES**

- NEW WORK  
EXISTING WORK / FUTURE PROVISIONS / NOT IN CONTRACT WORK  
WIRE AND / OR CONDUIT RUN CONTINUED ON REFERENCED DETAIL
- DRAWING KEYED NOTES

**BRANCH CIRCUIT CONDUCTOR SIZING**

- CIRCUIT NOTATION:**
- 11.13 → CIRCUIT NUMBER(S)  
TL,NL,T → SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)
- PROVIDE MINIMUM WIRE SIZE AS FOLLOWED UNLESS NOTED OTHERWISE:  
20A CB - #12 AWG  
30A CB - #10 AWG  
40A CB - #8 AWG  
50A CB - #6 AWG  
INCREASE SIZE OF CONDUCTOR FOR DISTANCE AS SHOWN BELOW IN 20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE.

**20A BRANCH CIRCUIT CONDUCTOR SIZING SCHEDULE:**

CONDUCTOR SIZE (AWG)	#12	#10	#8	#6	#4
MAXIMUM BRANCH CIRCUIT LENGTH AT 120V (FEET)	90	140	225	355	565
MAXIMUM BRANCH CIRCUIT LENGTH AT 277V (FEET)	205	325	520	825	1310

- NOTES:**
- INCREASE ALL BRANCH CIRCUIT CONDUCTORS AS INDICATED BASED ON LENGTH OF CIRCUIT, INCLUDING EQUIPMENT GROUNDING CONDUCTOR.
  - TRANSITION FROM LARGER CONDUCTOR SIZE TO #12 AWG FOR FINAL TERMINATION TO OUTLET DEVICE. PROVIDE JUNCTION BOX WITHIN 10' OF OUTLET AND EXTEND #12 AWG CONDUCTORS TO OUTLET.
  - LENGTHS ARE FROM OVERCURRENT PROTECTIVE DEVICE, ALONG CIRCUIT ROUTING, TO CENTER OF EQUIPMENT LOAD.
  - SCHEDULE ASSUMES 12A LOAD, FOR LOADS HIGHER THAN 12A, INCREASE CONDUCTOR SIZE.

**EQUIPMENT CONNECTIONS**

- SINGLE PHASE MOTOR/PUMP CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE  
THREE PHASE MOTOR/PUMP CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE  
SINGLE POINT EQUIPMENT CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE

**PANELBOARDS**

**PANELBOARD - FLOOR PLAN NOTATION:**

- DOOR STYLE (DESIGNATES VOLTAGE):  
208/120V OR 240V SYSTEM
- SIZE (DESIGNATES PANELBOARD TYPE):  
PANELBOARD
- FILL (DESIGNATES BRANCH TYPE):  
NORMAL BRANCH PANELBOARD

**ELECTRICAL DEVICES**

- GENERAL ELECTRICAL DEVICE NOTATION:**
- SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)
- CIRCUIT #  
INSTALLATION HEIGHT TO CENTER OF DEVICE IN INCHES (IF OTHER THAN SPECIFIED ON LEGEND)  
SUBSCRIPT (IF APPLICABLE)
- Ⓢ NEMA 5-20R DUPLEX RECEPTACLE, 18" AFF  
Ⓢ NEMA 5-20R GFCI DUPLEX RECEPTACLE, 18" AFF  
WP = WEATHERPROOF COVER

**LIGHTING CONTROL DEVICES**

- NOTE: LIGHTING CONTROL DEVICES SHOW FUNCTIONAL REQUIREMENTS, NOT ALL DEVICES NEEDED FOR A FULLY FUNCTIONING SYSTEM. DEPENDING ON CONFIGURATION AND MANUFACTURER, DEVICES SUCH AS POWER PACKS, RELAYS, SINGLE/DOUBLE/TRIPLE OUTPUT ROOM CONTROLLERS MAY BE NECESSARY. REFER TO DETAILS & SPECIFICATIONS.
- Ⓢ SINGLE POLE TOGGLE SWITCH, 44" AFF  
Ⓢ SINGLE POLE KEYSWITCH, 44" AFF  
Ⓢ OCCUPANCY SENSOR SWITCH, DUAL TECHNOLOGY SINGLE POLE, WALL-BOX STYLE, 44" AFF  
Ⓢ OCCUPANCY SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY, WIDE VIEW, CEILING MOUNTED  
Ⓢ PHOTOCELL DEVICE, LINE VOLTAGE, 12" ABOVE ROOF, AIMED NORTH

**LIGHTING**

- GENERAL LUMINAIRE NOTATION:**
- SOURCE PANELBOARD (IF OTHER THAN NOTED ON SHEET/CIRCUIT BOUNDARY)
- CIRCUIT #  
SWITCHLEG CONTROL ARRANGEMENT  
RELAY DESIGNATION (IF APPLICABLE)  
LUMINAIRE TYPE - REFER TO LUMINAIRE SCHEDULE
- ARROW INDICATES AIMING DIRECTION (WHERE APPLICABLE)
- DOTS INDICATE PENDANT HUNG  
TAIL INDICATES WALL MOUNT STYLE LUMINAIRE
- GEOMETRIC SHAPE LUMINAIRE, RECESSED OR SURFACE MOUNTED PER LUMINAIRE SCHEDULE  
ILLUMINATED EXIT SIGN - SINGLE/DOUBLE FACE AS SHOWN - DIRECTION OF ARROWS AS INDICATED - CEILING, SURFACE WALL, OR PERPENDICULAR WALL AS SHOWN  
SELF CONTAINED BATTERY LIGHTING UNIT

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Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By:  
**JJS**

Design By:  
**JJS**

Checked By:  
**NCH**

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**NCH**

Date:  
**3/16/23**

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Sheet Title:  
**BATHHOUSE  
#231 & #322  
POWER PLANS**

Drawing Number:  
**E101**

**Bid Documents**

Project Number:  
**21059.23**

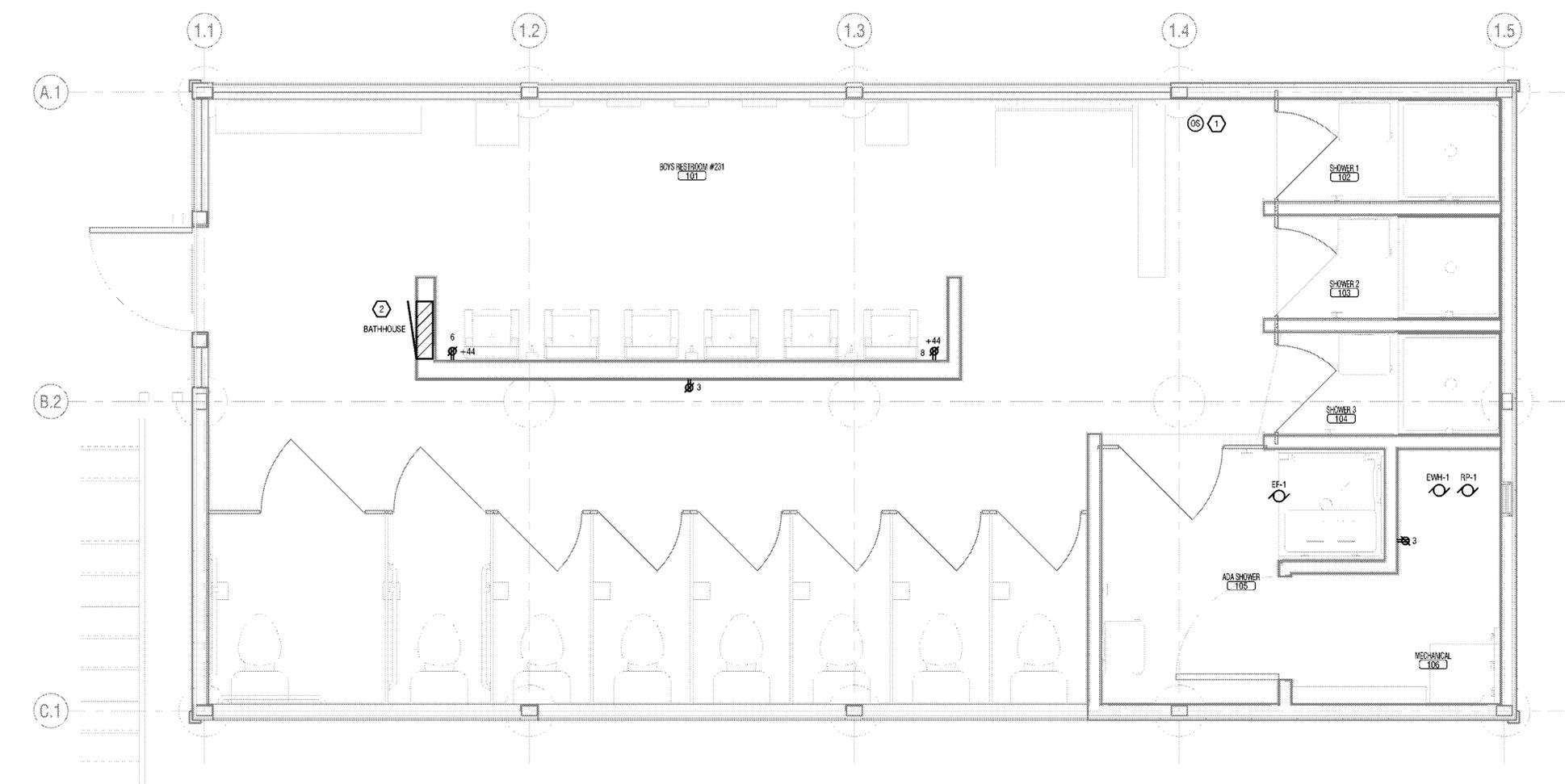
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**DRAWING NOTES:**

- A. CIRCUIT RECEPTACLES TO 20A1/1P CIRCUIT BREAKER IN BATHHOUSE PANEL USING 2#12, 1 #126 IN 1/2", CIRCUIT NUMBER AS INDICATED.

**KEYED NOTES:**

- 1 PROVIDE OCCUPANCY SENSOR AND POWER PACK TO CONTROL EXHAUST FAN 1. COORDINATE LOCATION OF EXHAUST FAN WITH MECHANICAL CONTRACTOR.
- 2 MOUNT PANELBOARD AT 66 ABOVE FINISH FLOOR TO THE TOP OF TRIM.



**1 BATHHOUSE #231 & #322 POWER PLAN**  
E101 1/2" = 1'-0"

**DRAWING NOTES:**

A. CIRCUIT LIGHTING FIXTURES TOGETHER TO 20A/1P CIRCUIT BREAKER IN BATHHOUSE PANEL USING 2#12, 1#12G IN 1/2", CIRCUIT NUMBER AS INDICATED.

**KEYED NOTES:**

- 1 MOUNT FIXTURE AT 7'1" ABOVE FINISH FLOOR. FIXTURE SHALL BE CONTROLLED BY ROOF MOUNTED PHOTOCELL.
- 2 MOUNT PHOTOCELL TO THE SOFFIT FACING NORTH.
- 3 MOUNT BOTTOM OF FIXTURES AT 6'8" ABOVE FINISH FLOOR. FIELD VERIFY LOCATION PRIOR TO INSTALLATION.
- 4 MOUNT FIXTURE TO BLOCKING BETWEEN RAFTERS/TRUSS (BLOCKING BY GC).
- 5 MOUNT DIMMER SWITCH 6" ABOVE FINISH FLOOR AND ABOVE KEYED SWITCH.

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**Project Title:**  
 CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
 HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

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 Checked By: **NCH**  
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 Date: **3/16/23**

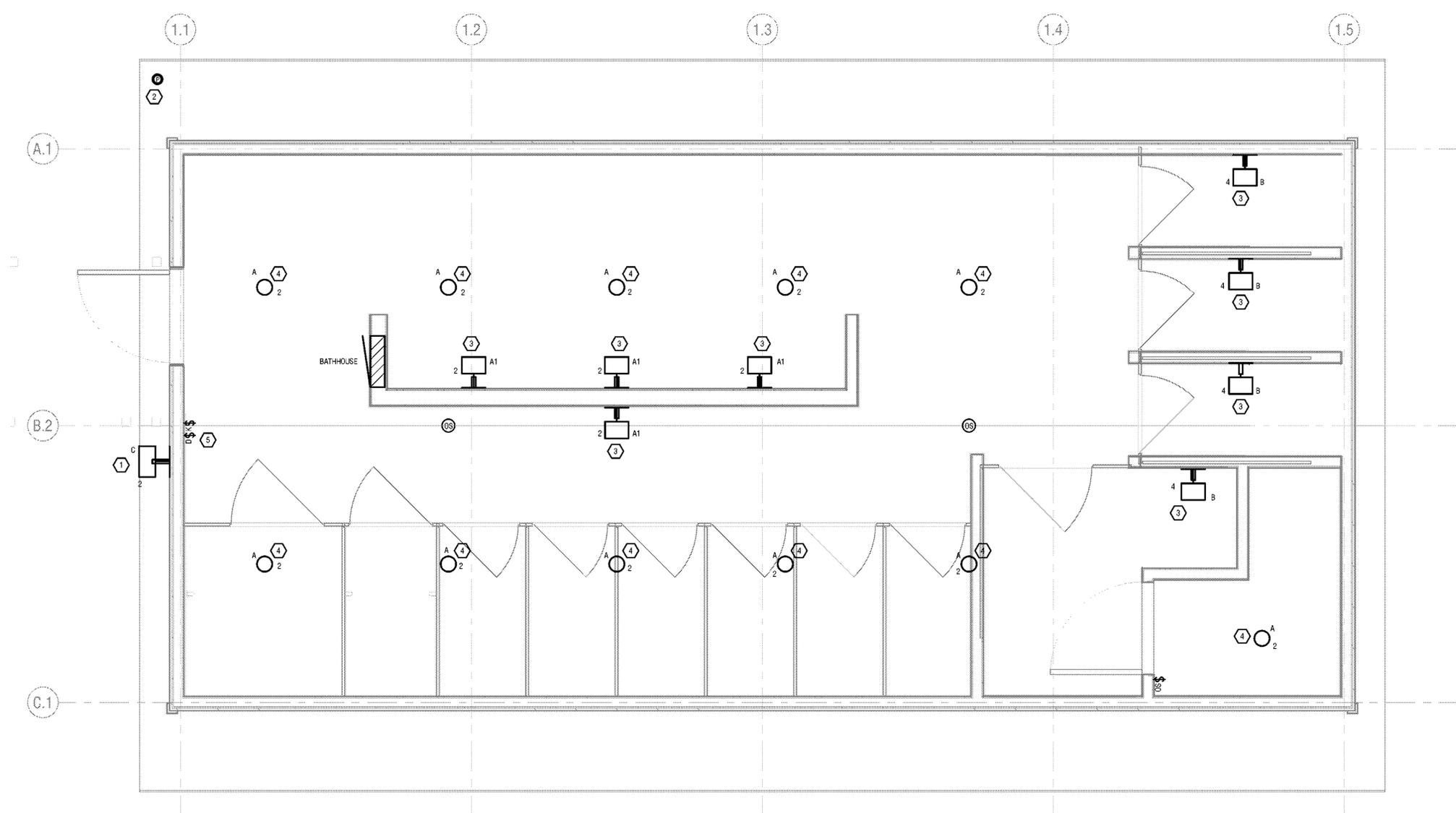
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**Sheet Title:**  
 BATHHOUSE #231 & #322 LIGHTING PLANS

**Bid Documents**  
 Project Number: **21059.23**

Drawing Number:  
**E102**

Sheet:



**1 BATHHOUSE #231 & #322 LIGHTING PLAN**  
 E102 1/2" = 1'-0"

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PHASE 3

**Project Location:**  
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**Key Plan**

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Sheet Title:  
**LATRINE #427  
POWER &  
LIGHTING PLAN**

Drawing Number:  
**E103**

**Bid Documents**

Project Number:  
**21059.23**

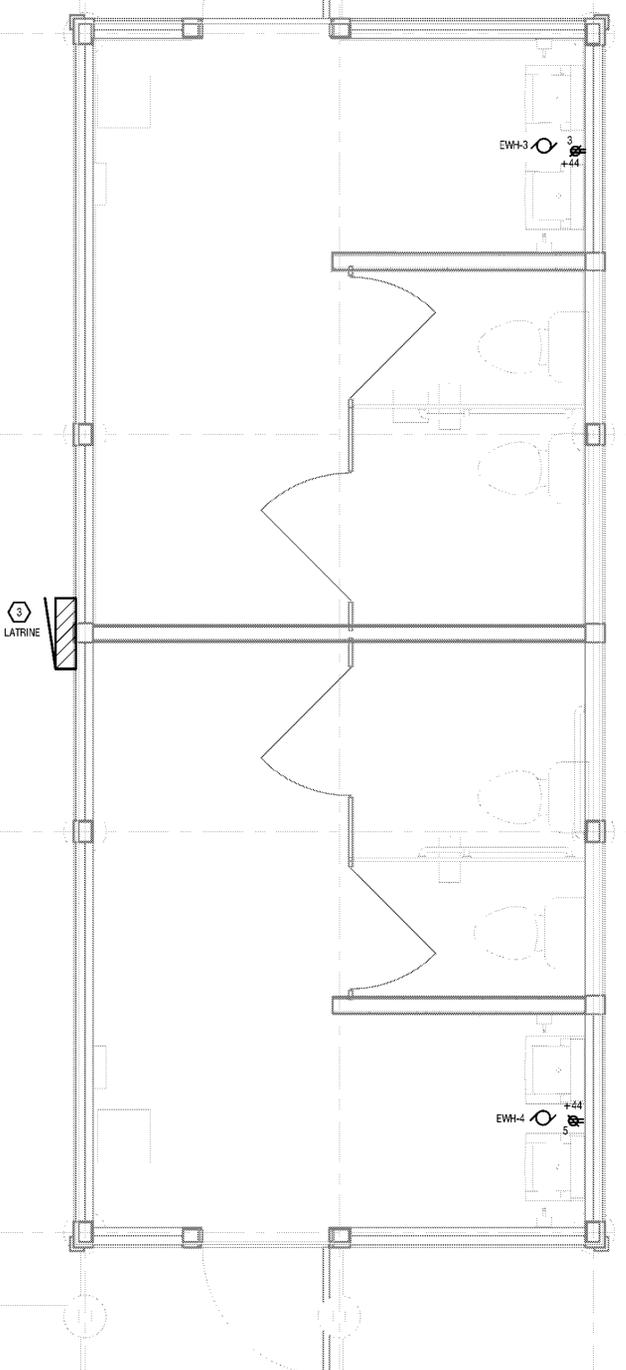
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**DRAWING NOTES:**

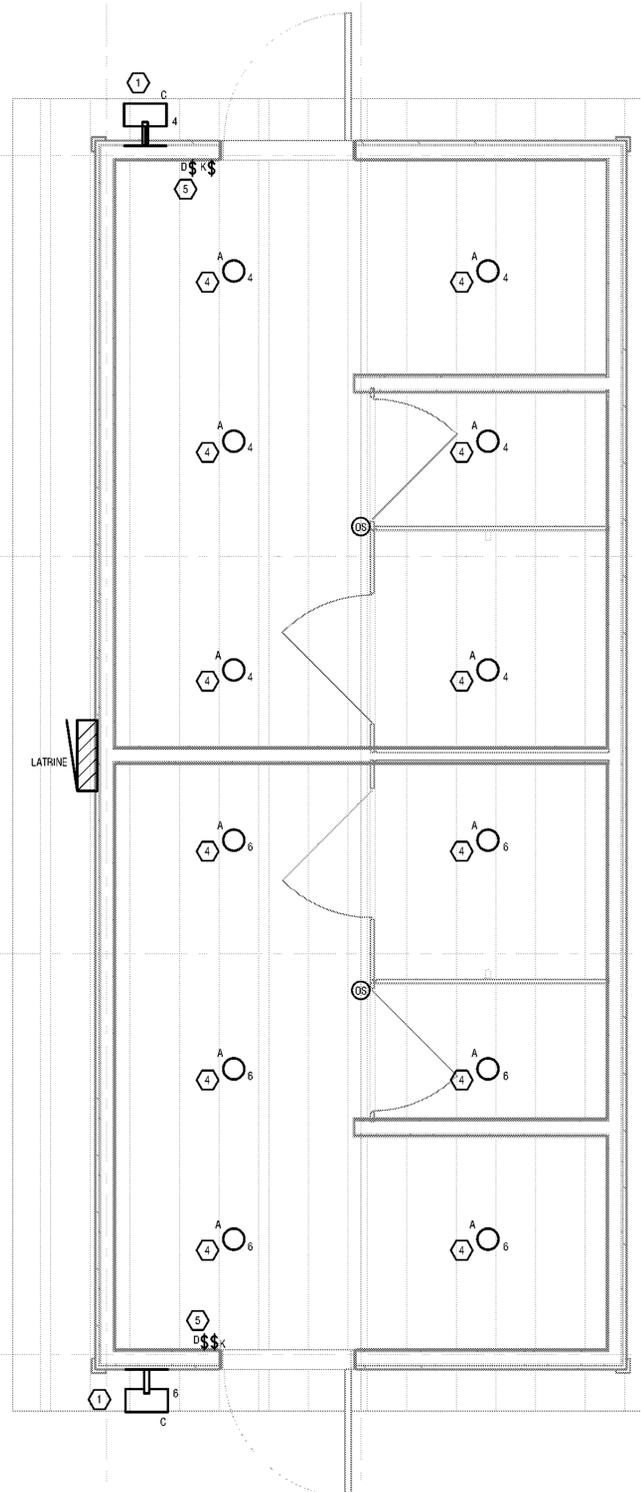
- A. CIRCUIT RECEPTACLES TO 20A/1/1P CIRCUIT BREAKER IN LATRINE PANEL USING 2#12, 1#12G IN 1/2", CIRCUIT NUMBER AS INDICATED.
- B. CIRCUIT LIGHTING FIXTURES TO 20A/1/1P CIRCUIT BREAKER IN BATHHOUSE PANEL USING 2#12, 1#12G IN 1/2", CIRCUIT NUMBER AS INDICATED.

**KEYED NOTES:**

- 1 MOUNT FIXTURE AT 7'1" ABOVE FINISH FLOOR. FIXTURE SHALL BE CONTROLLED BY ROOF MOUNTED PHOTOCELL.
- 2 MOUNT PHOTOCELL TO THE SOFFIT FACING NORTH.
- 3 MOUNT PANELBOARD AT 4'8" ABOVE FINISH GRADE TO THE TOP OF TRIM.
- 4 MOUNT FIXTURE TO BLOCKING BETWEEN RAFTERS/TRUSS (BLOCKING BY GC).
- 5 MOUNT DIMMER SWITCH 6'2" ABOVE FINISH FLOOR AND ABOVE KEYED SWITCH.



1 LATRINE #427 POWER PLAN  
E103 1/2" = 1'-0"



2 LATRINE #427 LIGHTING PLAN  
E103 1/2" = 1'-0"

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Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI -  
PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

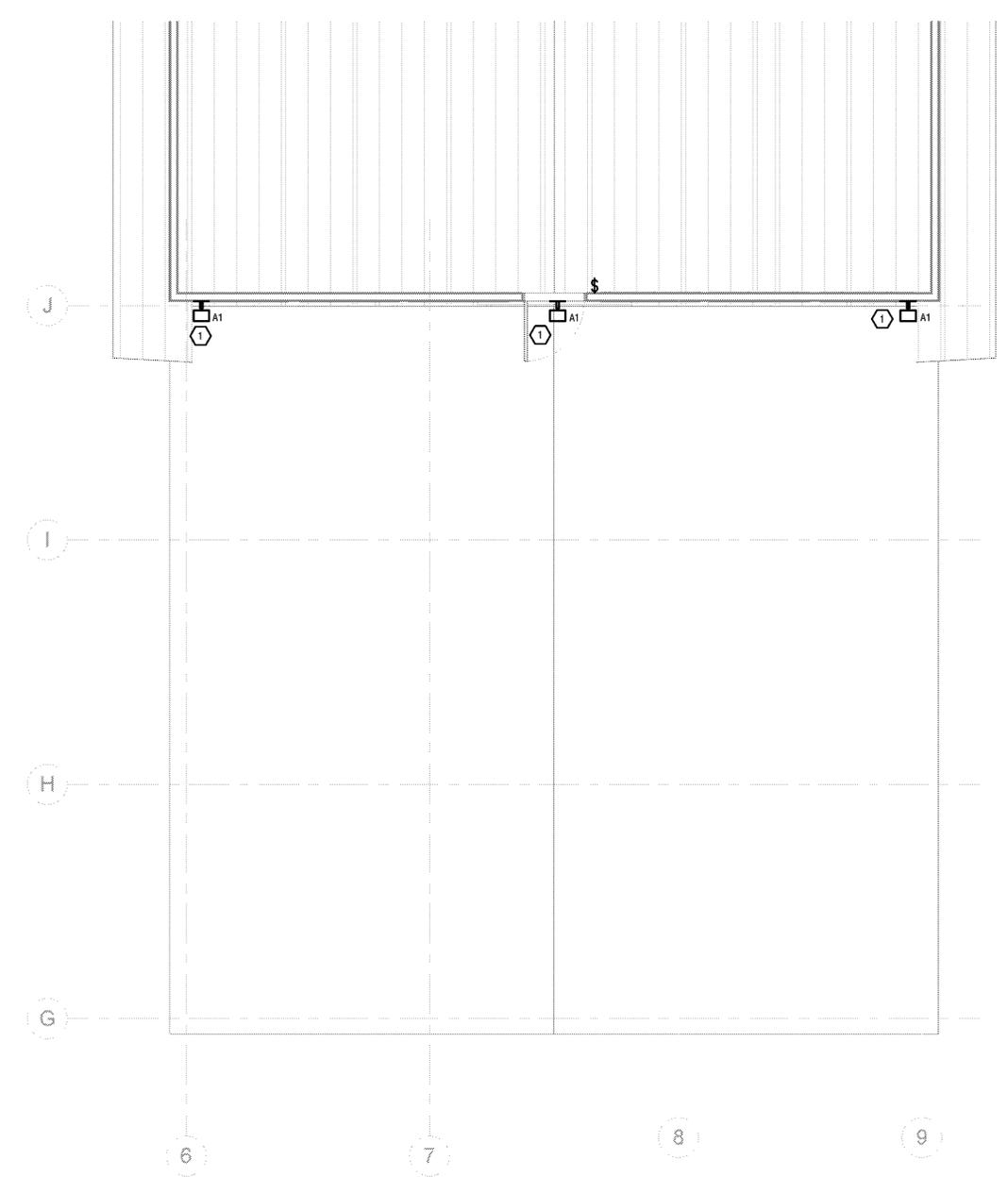
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Sheet Title: <b>DINING HALL #404 CANOPY LIGHTING PLANS</b>  <b>Bid Documents</b> Project Number: <b>21059.23</b>	Drawing Number:  <b>E104</b>  Sheet:
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**KEYED NOTES:**

① MOUNT FIXTURE AT 10'-0" ABOVE FINISH FLOOR. CIRCUIT NEW LIGHTING FIXTURES USING 2#12, 1#12G IN 1/2" C TO EXISTING CIRCUIT FEEDING THE EXIT SIGNS. ROUTE CONDUIT ON THE INSIDE OF THE BUILDING AND COME THROUGH EXTERIOR OF THE BUILDING AT THE LIGHT FIXTURES.



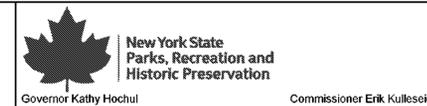
① **DINING HALL #404 CANOPY LIGHTING PLAN**  
E104 1/4" = 1'-0"

LUMINAIRE SCHEDULE

ID	LAMP		MANUFACTURER	MODEL	DESCRIPTION	COLOR TEMP	LUMEN OUTPUT	NOTES
	TYPE	WATTS						
A	LED	17	RAB LIGHTING	VX100DG HOUSING	SURFACE MOUNT	2700K	1600	PROVIDE RAB LIGHTING A21-17-E26-927-DIM LED BULB
A1	LED	17	RAB LIGHTING	VXBR100DG HOUSING	WALL MOUNT	2700K	1600	PROVIDE RAB LIGHTING A21-17-E26-927-DIM LED BULB
B	LED	20	COOPER LIGHTING FAIL-SAFE SERIES	B95-HE-BR2-LD4-20-30-CL-UNV-EDC1	WALL MOUNT	3000K	1200	HORIZONTAL ORIENTATION
C	LED	26	RAB LIGHTING	FFLED26V/E*	WALL MOUNT	3000K	3952	BRONZE FINISH. PROVIDE RAB LIGHTING PART VXCA WIRING BOX WITH XC1A COVER BOTH IN BRONZE FINISH

EQUIPMENT CONNECTION SCHEDULE

DESIGNATION	LOCATION	DESCRIPTION	LOAD	VOLTAGE	PHASE	POWER SOURCE	CIRCUIT NUMBER	PROTECTIVE DEVICE RATING (A)	NUMBER OF POLES	CONDUCTORS & CONDUIT	CONTROLLER TYPE	CONTROLLER SIZE	CONTROLLER ACCESSORIES	DISCONNECT	NOTES
EF-1	MECHANICAL	EXHAUST FAN	864 VA	115 V	1	BATHHOUSE	1	20	1	2#12, 1#12G, 1/2"C	OCCUPANCY SENSOR	20A	-	FACTORY MOUNTED	
EF-2	MECHANICAL	EXHAUST FAN	864 VA	115 V	1			20	1	2#12, 1#12G, 1/2"C	OCCUPANCY SENSOR	20A	-	FACTORY MOUNTED	SAME AS EF-1 EXCEPT LOCATED IN BATHHOUSE #322
EW-1	MECHANICAL	ELECTRIC WATER HEATER	13200 VA	240 V	1	BATHHOUSE	5,7	70	2	2#8, 1#8G, 3/4"C	INTEGRAL	-	-	100A/70AT FUSED DISCONNECT	CONFIRM CIRCUIT BREAKER REQUIRED WITH MANUFACTURER
EW-2	MECHANICAL	ELECTRIC WATER HEATER	13200 VA	240 V	1			70	2	2#8, 1#8G, 3/4"C	INTEGRAL	-	-	100A/70AT FUSED DISCONNECT	SAME AS EW-1 EXCEPT LOCATED IN BATHHOUSE #322
EW-3	MECHANICAL	ELECTRIC WATER HEATER	1400 VA	115 V	1	LATRINE	1	20	1	2#12, 1#12G, 1/2"C	-	-	-	PROVIDE GFI TYPE RECEPTACLE	
EW-4	MECHANICAL	ELECTRIC WATER HEATER	1400 VA	115 V	1	LATRINE	2	20	1	2#12, 1#12G, 1/2"C	-	-	-	PROVIDE GFI TYPE RECEPTACLE	
RP-1	MECHANICAL	RECIRCULATION PUMP	25 VA	120 V	1	BATHHOUSE	9	15	1	2#8, 1#8G, 3/4"C	-	-	-	PROVIDE GFI TYPE RECEPTACLE	



Governor Kathy Hochul Commissioner Erik Kulesseid

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**LaBella**

Certificate of Authorization Number:  
Professional Engineering: 019281  
Last Renewal: 01/19/23  
Geological: 018750

**Palisades Region**  
Palisades Interstate Park Commission  
Bear Mountain, New York 10911  
(845) 786-2701  
Executive Director: Joshua Laird

**Project Title:**  
CAMP JUNIOR ON LAKE TIORATI - PHASE 3

**Project Location:**  
HARRIMAN STATE PARK

**Key Plan**

**REVISIONS**

Rev No	Description	Date

Drawn By: <b>JJS</b> Design By: <b>JJS</b> Checked By: <b>NCH</b> Approved By: <b>NCH</b> Date: <b>3/16/23</b>	Seal and Signature 
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**Sheet Title:**  
SCHEDULES

**Drawing Number:**  
**E600**

**Bid Documents**

Project Number:  
**21059.23**

Sheet:

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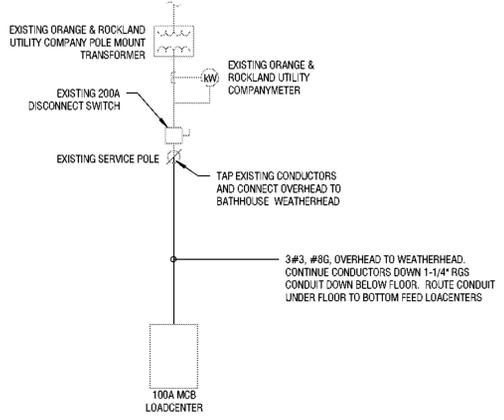
Sheet Title:  
**PARTIAL ONE-LINE DIAGRAM AND SCHEDULES**

Drawing Number:  
**E700**

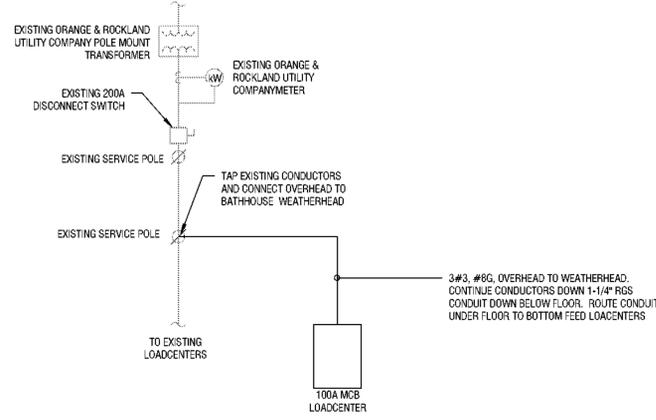
**Bid Documents**

Project Number:  
**21059.23**

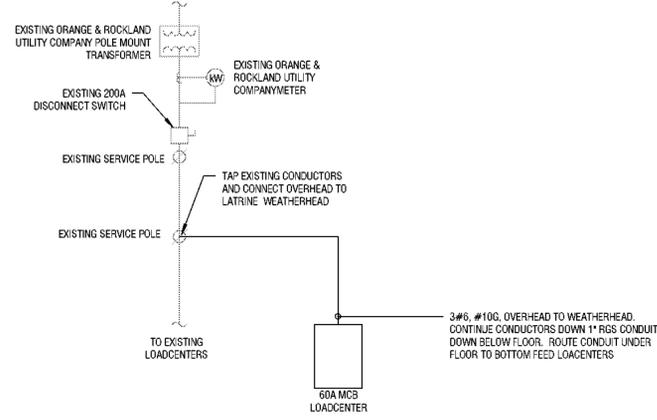
Sheet:



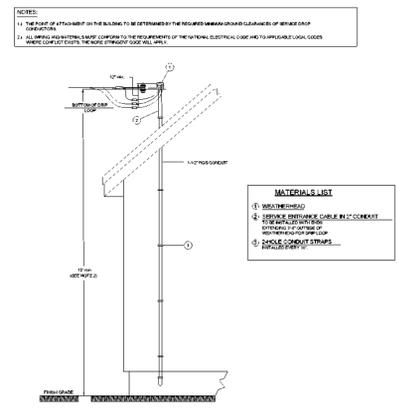
**1 POWER ONE-LINE DIAGRAM - BATHHOUSE #231**  
E700 NOT TO SCALE



**2 POWER ONE-LINE DIAGRAM -BATHHOUSE #322**  
E700 1/8\" = 1'-0"



**3 POWER ONE-LINE DIAGRAM - LATRINE**  
E700 1/8\" = 1'-0"



**4 OVERHEAD SERVICE ENTRANCE DETAIL**  
E700 1/8\" = 1'-0"

**DESIGNATION: BATHHOUSE**

LOCATION: BOYS RESTROOM #231 101

FED FROM: SERVICE ENTRANCE LABEL: OPTIONS:

DESIGN BASE: GE POWERMARK GOLD LOAD CENTER

DISTRIBUTION VOLTAGE: 120/240V SINGLE PHASE

# OF PHASES: 1

# OF WIRES: 3

MOUNTING: RECESSED

ENCLOSURE TYPE: NEMA 3R

FULLY RATED AIC: 10,000

MAIN TYPE: MCB

BUS RATING: 100 A

MCB TRIP: 100 A

MODIFICATIONS:

**PANELBOARD SCHEDULE NOTATION:**

- \* PROVIDE GFCI TYPE BREAKER
- \*\* REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
- \*\*\* COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A	B	POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	EF-1	20 A	1	864	455.4			LIGHTING	2
3	RECEPTACLES	20 A	1		360	80	1 20 A	SHOWER LIGHTING*	4
5				6150	180			RECEPTACLES	6
7	EW-1	70 A	2		6150	180	1 20 A	RECEPTACLES	8
9	RP-1	20 A	1	25					10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
TOTAL CONNECTED PHASE LOADS:				7871 VA	6770 VA				
TOTAL CONNECTED PHASE CURRENTS:				64 A	56 A				
<b>LOAD CLASSIFICATION</b>		<b>CONNECTED LOAD</b>	<b>DEMAND FACTOR</b>	<b>ESTIMATED DEMAND LOAD</b>	<b>TOTALS</b>				
Lighting		356 VA	100.00%	356 VA					
Motor		13189 VA	123.31%	16284 VA					
RECEP		900 VA	100.00%	900 VA					
					CONNECTED LOAD: 14441 VA				
					ESTIMATED DEMAND LOAD: 17516 VA				
					CONNECTED CURRENT: 60 A				
					ESTIMATED DEMAND CURRENT: 73 A				
					NON-COINCIDENT HEATING/COOLING: 0 A				
					ESTIMATED DEMAND - NC HEAT/COOL: 73 A				

**DESIGNATION: LATRINE**

LOCATION:

FED FROM: SERVICE ENTRANCE LABEL: OPTIONS:

DESIGN BASE: GE POWERMARK GOLD LOAD CENTER

DISTRIBUTION VOLTAGE: 120/240V SINGLE PHASE

# OF PHASES: 1

# OF WIRES: 3

MOUNTING: SURFACE

ENCLOSURE TYPE: NEMA 3R

FULLY RATED AIC: 10,000

MAIN TYPE: MCB

BUS RATING: 100 A

MCB TRIP: 60 A

MODIFICATIONS:

**PANELBOARD SCHEDULE NOTATION:**

- \* PROVIDE GFCI TYPE BREAKER
- \*\* REFER TO POWER DISTRIBUTION ONE-LINE DIAGRAM OR EQUIPMENT CONNECTION SCHEDULE(S) FOR TRIP RATING.
- \*\*\* COORDINATE CIRCUIT BREAKER RATING WITH SPD MANUFACTURER

CKT	CIRCUIT DESCRIPTION	BKR	POLES	A	B	POLES	BKR	CIRCUIT DESCRIPTION	CKT
1	EW-3	15 A	1	1400	1400			EW-2	2
3	RECEPTACLES	20 A	1		180	330.4	1 20 A	LIGHTING	4
5	RECEPTACLES	20 A	1	180	127		1 20 A	LIGHTING	6
7									8
9									10
11									12
13									14
15									16
17									18
19									20
21									22
23									24
TOTAL CONNECTED PHASE LOADS:				3103 VA	510 VA				
TOTAL CONNECTED PHASE CURRENTS:				26 A	4 A				
<b>LOAD CLASSIFICATION</b>		<b>CONNECTED LOAD</b>	<b>DEMAND FACTOR</b>	<b>ESTIMATED DEMAND LOAD</b>	<b>TOTALS</b>				
Lighting		279 VA	100.00%	279 VA					
Motor		2800 VA	112.50%	3150 VA					
RECEP		540 VA	100.00%	540 VA					
					CONNECTED LOAD: 3612 VA				
					ESTIMATED DEMAND LOAD: 3962 VA				
					CONNECTED CURRENT: 15 A				
					ESTIMATED DEMAND CURRENT: 17 A				
					NON-COINCIDENT HEATING/COOLING: 0 A				
					ESTIMATED DEMAND - NC HEAT/COOL: 17 A				