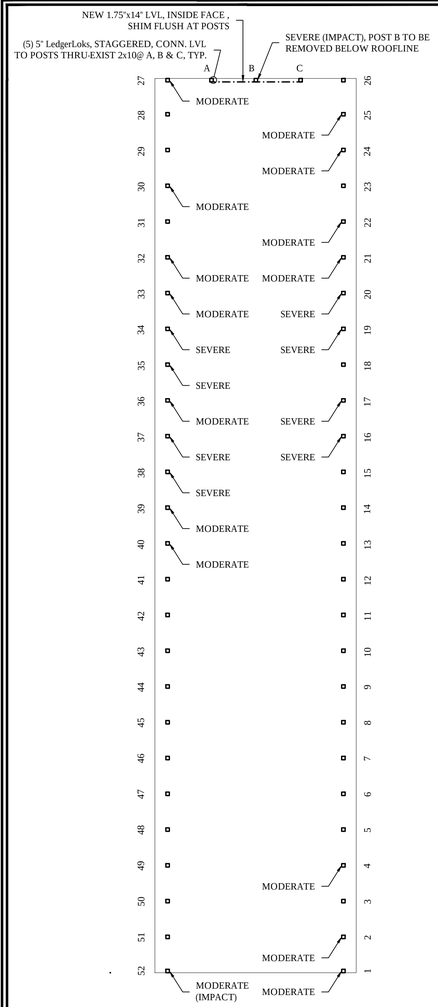


EXPLANITORY NOTES

1. THE EXISTING TIMBER POSTS OF THE PAVILION HAVE BEGUN TO DECAY WHERE THEY PASS BELOW GRADE. THESE POSTS MUST BE REPAIRED. THE LAYOUT DESIGNATES THE LOCATION OF DAMAGED POSTS AND RELATIVE SEVERITY. IT IS ANTICIPATED THAT THE FOUNDATION WILL NEED TO BE REPAIRED OR REPLACED AT ALL DAMAGED LOCATIONS, AND THAT SPLICING OR REPLACEMENT OF THE POST WILL BE NECESSARY AT LOCATIONS MARKED "SEVERE".
2. THE PROJECT ALSO INCLUDES THE INSTALLATION OF A LVL SPREADER BEAM AT THE NORTH END, ELIMINATING COLUMN "B".
3. THIS PROJECT INCLUDES REPAIR OF THE ROOF PER THE ROOF REPAIR NOTES BELOW.

REPAIR LAYOUT

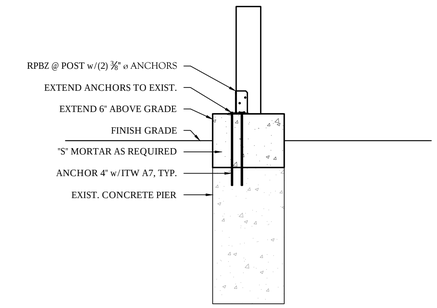
SCALE: 1/16" = 1'-0"

LAYOUT KEY

SEVERE: BOTTOM OF PIER IS SIGNIFICANTLY REDUCED IN SECTION AND MUST BE REPLACED
MODERATE: BOTTOM OF PIER IS SOMEWHAT REDUCED IN SECTION AND MUST BE REPLACED OR REINFORCED

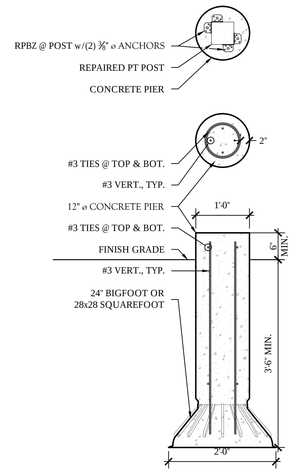
LAYOUT NOTES

1. UNLESS NOTED OTHERWISE (U.N.O.) LISTED DAMAGE IS FROM DECAY / MOISTURE AT AND BELOW THE GRADE LINE. AREAS GOVERNED BY IMPACT DAMAGE ARE NOTED AS SUCH.
2. ANY AREAS OF NOTED DAMAGE ARE TO BE EXCAVATED TO EXPOSE THE FOOTING PRIOR TO REPAIR, AND ANY DAMAGE BELOW GRADE IS TO BE QUANTIFIED. IT IS TO BE ANTICIPATED THAT THE WORST DAMAGE WILL BE BELOW GRADE. THE EXISTING FOOTING CAN EITHER BE REUSED OR REPLACED PER THE DETAILS PROVIDED.
3. REPAIR/REPLACEMENT DETAILS PROVIDED HEREIN REQUIRE THAT THE POST BE ELEVATED AT LEAST 6" ABOVE THE SURROUNDING GRADE, WHICH WILL NECESSITATE CUTTING AT LEAST 6" FROM THE END OF THE EXISTING POST. THIS CUTTING OF THE BOTTOM END MAY BE FOUND TO COMPLETELY REMOVE THE MODERATELY DAMAGED SECTIONS, BUT WILL LIKELY NOT REMOVE ENOUGH OF THE SEVERELY DAMAGED SECTIONS TO AVOID SPLICING.
4. ALL ELEMENTS BEING AFFECTED BY DECAY ACTION SHOULD BE FIELD TREATED WITH PRESERVATIVE PER NOTE W3. THIS TREATMENT INCLUDES EAVES PAST THE COLUMN LINES AND THE BOTTOMS OF ALL POSTS (WITHIN 12" OF GRADE).
5. ANY EXISTING ELEMENTS HEAVILY AFFECTED BY DECAY, SUCH AS THE EAVE PROJECTIONS, SHOULD BE SISTERED WITH NEW PT ELEMENTS OF SIMILAR SIZE. THIS WORK IS TO BE PERFORMED BY OTHERS, AND IS OUTSIDE BASE SCOPE.



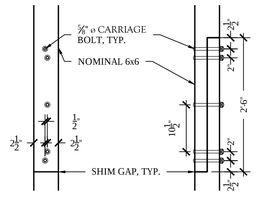
1a / SK1 TYP. PEIR REPAIR DETAIL

SCALE: 3/4" = 1'0"
NOTE: PIERS MAY BE REPAIRED OR REPLACED A.C.D.



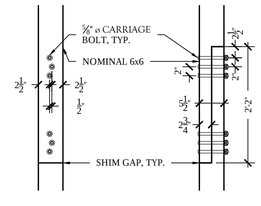
1b / SK1 TYP. PEIR REPLACEMENT DETAIL

SCALE: 3/4" = 1'0"
NOTE: PIERS MAY BE REPAIRED OR REPLACED A.C.D.



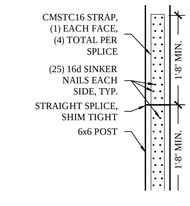
2a / SK1 TYP. POST SPLICE DETAIL

SCALE: 3/4" = 1'0"
NOTE: POSTS MAY BE SPLICED PER a,b, OR c OR REPLACED A.C.D.



2b / SK1 TYP. POST SPLICE DETAIL

SCALE: 3/4" = 1'0"
NOTE: POSTS MAY BE SPLICED PER a,b, OR c OR REPLACED A.C.D.



2c / SK1 TYP. POST SPLICE DETAIL

SCALE: 3/4" = 1'0"
NOTE: POSTS MAY BE SPLICED PER a,b, OR c OR REPLACED A.C.D.

GENERAL STRUCTURAL NOTES

G1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2015 INTERNATIONAL BUILDING CODE, AS AMENDED FOR THE 2018 CONNECTICUT BUILDING CODE.

G2. THE GENERAL CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR MEANS AND METHODS OF CONSTRUCTION AND SAFETY ON THE JOB SITE INCLUDING TEMPORARY SHORING.

CONCRETE / REINFORCED CONCRETE

C1. GENERAL: ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTES 'SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS' (ACI 301-95).

C2. CONCRETE MIXES SHALL INCLUDE MID-RANGE WATER REDUCING ADMIXTURE OR PLASTICIZER AND SHALL HAVE A DESIGN SLUMP OF 5" WITH A MAXIMUM PLACEMENT SLUMP OF 6.5". HIGHER SLUMPS ARE ALLOWABLE IF HIGH RANGE PLASTICIZERS ARE USED.

CONCRETE FOR FOUNDATIONS WALLS AND FOOTINGS:
f'c = 4OOO PSI AT 28 DAYS
w/c RATIO = O.47 (MAX)
AIR ENTRAINMENT = 6%

C3. REINFORCING STEEL: ASTM A615 - GRADE 60.

C4. BAR DETAILING: IN ACCORDANCE WITH THE "ACI DETAILING MANUAL - 1988". PLACING DRAWINGS SHALL SHOW THE NUMBER AND LOCATION OF ALL BAR SUPPORTS AND ACCESSORIES.

C6. CONCRETE COVER:
SHALL BE AS FOLLOWS: CONCRETE POURED AGAINST EARTH..... ..... 3"
CONCRETE POURED IN FORMS BUT EXPOSED TO EARTH OR WEATHER..... 2"

WOOD NOTES

W1. ALL FRAMING EXPOSED TO THE WEATHER OR GROUND CONTACT SHALL BE PRESSURE TREATED (PT) AS REQUIRED, AND SHALL BE SOUTHERN YELLOW PINE #2 (SYP2) OR SUPERIOR. ALL NON-EXPOSED FRAMING LUMBER SHALL BE HEM-FIR NORTH #2 OR BETTER UNLESS OTHERWISE NOTED. ALL PRESSURE TREATED LUMBER (ACQ) LEVEL OF TREATMENT SHALL BE IN ACCORDANCE W / AWPA STANDARDS FOR RETENTION BASED ON END USE APPLICATION (ABOVE GROUND USE, GROUND CONTACT, DECKING, ETC.).

W2. OUR OFFICE RECOMMENDS THAT ALL NEW PT LUMBER OPEN TO WEATHER BE TREATED WITH A PENETRATING WATER REDUCER (SUCH AS BOILED LINSEED OIL) IN ORDER TO INCREASE THE LIFE OF THE STRUCTURE. ALL CUT ENDS, NOTCHES, AND DRILLED HOLES IN PT LUMBER MUST BE FIELD TREATED PER AWPA M4 STANDARDS, SUCH AS WITH COPPER NAPHTHENATE.

W3. ENGINEERED LUMBER:
LAMINATED VENEER LUMBER (LVL) SHALL BE MICROLLAM 2.0E BY ILEVEL

ALTERNATE PRODUCTS WILL ONLY BE PERMITTED IF APPROVED IN ADVANCE IN WRITING BY THE STRUCTURAL ENGINEER. ENGINEERED LUMBER SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

W4. ALL BOLTS, NAILS AND ASSOCIATED FASTENERS EXPOSED TO THE WEATHER SHALL BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM WEIGHT OF ZINC COATING = 1.00 OZ./FT.

W5. ALL WOOD FRAMING CONNECTIONS SHALL BE FASTENED IN ACCORDANCE WITH "FASTENING SCHEDULE" OF 2009 IRC, UNLESS OTHERWISE INDICATED.

W6. UNLESS NOTED OTHERWISE, ALL NAILS ARE TO BE COMMON WIRE NAILS, WITH CORROSION RESIDENCE APPROPRIATE TO THE USE. FOR REFERENCE: 16d=0.162" ø WHILE 10d=0.148" ø

ROOF REPAIR

R1. AS PART OF THIS PROJECT, THE ROOF IS TO BE REPAIRED WITH A METAL ROOF COATING SUCH AS "GACO-FLEX S-42", "ARMOR GARAGE", OR EQUAL APPROVED IN WRITING PRIOR TO CONTRACT ACCEPTANCE.

R2. PATCH ALL THE HOLES, DAMAGED SEAM, AND LOOSE/MISSING SCREWS.

R3. CLEAN ALL RUST AND APPLY A PAINT COMPATIBLE ZINC PRIMER. APPLY MASTIC TO ANY AREAS OF DAMAGE/PERFORATIONS.

R4. CLEAN AND DECREASE ROOF.

R5. CHECK ADHESION. APPLY EPOXY BONDING PRIMER TO ANY AREAS OF POOR ADHESION PRIOR TO PANTING FIRST COAT.

R6. APPLY METAL ROOF COATINGS TO MEET THE PRODUCT WARRANTY.

NUMBER	DATE	REVISION
2	2021-10-21	REQUESTED REVISION OF TOB TITLE
1	2021-10-20	GENERAL REVISION

Ledyard Town Green Pole Barn Improvements
740 Colonel Ledyard Highway
Ledyard, CT 06339

IMPROVEMENT PLAN

CLA Engineers, Inc.
CIVIL • STRUCTURAL • SURVEYING
317 Main Street Norwich, Connecticut
(860) 886-1966 Fax (860) 886-9165
www.claengineers.com

CLA PROJECT NO. 6967
PROJ. ENGINEER ADB
DATE: 2021-10-11
SHEET NO. (OF 1 SHEETS)
SK1