

GENERAL NOTES

1. THE NOTES ON THESE DRAWINGS ARE NOT INTENDED TO REPLACE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES OR INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE GENERAL NOTES. CONSULT THESE DRAWINGS FOR LOCATIONS AND DETAIL PRIOR TO PROCEEDING WITH THE AFFEATED PORTION OF THE WORK.
2. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGISTS, LOCATIONS, DEPRESSIONS AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.
3. ALL DIMENSIONS, EXISTING CONDITIONS, AND AS-BUILT CONDITIONS MUST BE ATTENDED TO BY THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH THE AFFEATED PART OF THE WORK.
4. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE ONLY AFTER THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, BRACING, TEMPORARY BRACING, CHAINS OR METHODS. SUCH MATERIAL SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
5. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DRAWINGS SHALL BE THE PROPERTY OF THE STRUCTURAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE TO INTERPRET DETAILS TO ADDRESS OTHER PROJECT CONDITIONS.
6. THE CONTRACTOR SHALL SUBMIT COMPLETE SHOP DRAWINGS FOR ALL PARTS OF THE WORK, INCLUDING DESCRIPTION OF SHOPPING AND CONSTRUCTION METHODS AND MATERIALS TO BE USED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS. A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, INCLUDING THE NAME OF THE MANUFACTURER, SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS.
7. REFER TO THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.
8. IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE (2009 EDITION), SECTION 1704.1, A STATEMENT OF SPECIAL INSPECTIONS IS REQUIRED AS A CONDITION FOR THE CONTRACTOR TO OBTAIN A PERMIT TO CONSTRUCT. THE CONTRACTOR SHALL PROVIDE A COMPLETE LIST OF MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS, INCLUDING THE NAME OF THE MANUFACTURER, SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND WORK REQUIRING SPECIAL INSPECTIONS.
9. REFER TO THE PROJECT SPECIFICATIONS FOR ALL TESTING REQUIREMENTS.

DESIGN LOADS

1. BUILDING CODE:
 - NAME: UNIFORM BUILDING AND ENGRY CODE
 - INTERNATIONAL BUILDING CODE, 2009 EDITION
 - AND OTHER STRUCTURES.
2. DESIGN FLOOR LIVE LOADS: 40 PSF
3. DESIGN ROOF SNOW LOAD (PSF): 80 PSF
4. DESIGN WIND LOAD: 100 MPH
5. DESIGN SEISMIC FORCE PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
6. SEISMIC RESPONSE COEFFICIENT: 0.18
7. SEISMIC DESIGN CATEGORY: STRUCTURAL STEEL SYSTEM NOT SEISMICALLY RESPONSIVE ADAPTATION FACTOR (R) = 3.0
8. SEISMIC RESPONSE COEFFICIENT (Cs) = 0.16

CONCRETE NOTES

1. CONCRETE WORK SHALL CONFORM TO "THE MANUAL OF CONCRETE PRACTICE" LATEST EDITION. THIS PUBLICATION IS AVAILABLE THROUGH THE AMERICAN CONCRETE INSTITUTE (249 484-3800).
2. ALL CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
3. CONCRETE SHALL NOT BE PLACED IN WATER OR ON FROZEN GROUND.
4. REPAIRS TO CONCRETE SHALL BE MADE THROUGH PROPER CONCRETE REPAIRING METHODS.
5. REINFORCING BARS SHALL CONFORM TO ASTM A631 GRADE 60 DEFORMED BARS OR SLABS.
6. MINIMUM CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
 - a) SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER: #6 BARS, 5/8" DIAMETER WIRE AND SMALLER, 1.5"
 - b) SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER: #5 BARS, 5/8" DIAMETER WIRE AND SMALLER, 1.5"
 - c) SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER: #6 BARS, 5/8" DIAMETER WIRE AND SMALLER, 1.5"
7. REINFORCEMENT SHALL BE CONTINUOUS AROUND CORNERS AND AT INTERSECTIONS. PROVIDE LAPPED BARS AT NECESSARY SPACES OR HOOKED BARS AT DISCONTINUOUS ENDS. PROVIDE TENSION LAP SPACES PER SECTION 515, LATEST EDITION.
8. WELDING OF REINFORCEMENT IS NOT PERMITTED.
9. FOR ALL OPENINGS IN CONCRETE WALLS AND SLABS, PROVIDE SUPPLEMENTAL REINFORCING AROUND OPENINGS AS SHOWN ON THE CONTRACT DOCUMENTS WITHOUT WRITTEN PERMISSION FROM ENGINEER.
10. CONSTRUCTION JOINTS SHOWN ON DRAWINGS ARE MANDATORY. QUESTIONS, ADDITIONS, OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SIGNATURE OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATION. JOINTS ARE NOT SHOWN, OR WHEN AT TENTATIVE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND CONCRETE REINFORCEMENT SHALL BE SUBMITTED TO THE ARCHITECT AND ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION. CONSTRUCTION JOINTS SHALL BE MADE AT VERTICAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN ON NOTED VERTICAL CONSTRUCTION JOINTS AND STOPS OF MINIMUM SHEAR, UNLESS NOTED OTHERWISE.
11. SPACING OF CONSTRUCTION JOINTS, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
 - a) FOOTINGS AND WALLS: MAX LENGTH 40'-0" FOR 15'-0"
 - b) SLABS ON GRADE: SEE FOUNDATION PLAN
12. EXCEPT WHERE INTERMEDIATE CONSTRUCTION JOINTS ARE PROVIDED, MINIMUM 12" HOURS SHALL ELAPSE BETWEEN ADJACENT CONCRETE PLACEMENTS.
13. ANCHOR BARS SHALL BE HEADED BARS CONFORMING TO ASTM F1554 GRADE 36 KSI TENSILE STRENGTH. ANCHOR BARS SHALL BE HEADED BARS CONFORMING TO ASTM F1554 GRADE 36 KSI TENSILE STRENGTH. ANCHOR BARS SHALL BE HEADED BARS CONFORMING TO ASTM F1554 GRADE 36 KSI TENSILE STRENGTH. ANCHOR BARS SHALL BE HEADED BARS CONFORMING TO ASTM F1554 GRADE 36 KSI TENSILE STRENGTH.
14. ALL GROUT BENEATH BASE PLATES & BEARING PLATES SHALL BE "3"-STAR" 5000-PSI NON-SHINKING GROUT BY U.S. GROUT CORP.
15. SLAB THICKNESSES INDICATED ON THE DRAWINGS ARE MINIMUMS. PROVIDE SUFFICIENT CONCRETE TO ACCOUNT FOR STRUCTURE DEFLECTION, SUBGRADE AND LENGTHS INDICATED.

CONCRETE NOTES CONT.

17. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT.
18. ALL ITEMS TO BE EMBEDDED INTO CONCRETE SHALL BE INSTALLED PRIOR TO PLACEMENT OF CONCRETE. PROVIDE ADDITIONAL REINFORCEMENT AND/OR TEMPLATES AS REQUIRED AND CONCRETE IS PROHIBITED.

STRUCTURAL STEEL NOTES

1. STRUCTURAL STEEL FABRICATION, ERECTION, AND CONNECTION DESIGN SHALL CONFORM TO AISC SPECIFICATION FOR THE DESIGN FABRICATION, AND ERECTION LATEST EDITION.
2. STRUCTURAL STEEL, STEEL PLATES, SHAPES, AND BARS, CONFORM TO ASTM A36 UNLESS NOTED OTHERWISE (UNLESS OTHERWISE NOTED, STRUCTURAL STEEL SHAPES DESIGNATED ON THE DRAWINGS FOR WIDE-FLANGE SECTIONS ASTM A992 (ASTM A572 GRADE 50) WITH SPECIAL REQUIREMENTS PER AISC TECHNICAL BULLETIN #3 DATED MARCH, 1987).
3. STRUCTURAL TUBING: CONFORM TO ASTM A500 GRADE B46 F51.
4. CONNECTION DESIGN FOR THIS PROJECT IS THE RESPONSIBILITY OF THE CONTRACTOR. CONNECTION DETAILATIONS, SHOWN AND SIZED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WAHNE SHALL BE SUBMITTED WITH THE SHOP DRAWINGS FOR THIS PROJECT. SEE THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. FIELD CONNECTIONS SHALL BE BOLTED USING A574 A574 HIGH STRENGTH BOLTS (UNLESS OTHERWISE NOTED). CONNECTIONS ARE CRITICAL (CS) UNLESS NOTED OTHERWISE (UNLESS OTHERWISE NOTED). CONNECTIONS ARE CRITICAL (CS) UNLESS NOTED OTHERWISE (UNLESS OTHERWISE NOTED). CONNECTIONS ARE CRITICAL (CS) UNLESS NOTED OTHERWISE (UNLESS OTHERWISE NOTED).
6. WHERE WELDING IS INDICATED, ALL WELDING SHALL CONFORM TO AWS D1.1 LATEST EDITION. ELECTRODES SHALL BE CONFORM TO AWS A5.1 E70X5 SERIES WITH PROPER ROD TO PRODUCE OPTIMUM WELD (LOW HYDROGEN).
7. SEE CONCRETE NOTES AND DRAWINGS FOR ANCHOR BOLT INFORMATION, TYP.
8. FRAMING OVER COLUMNS AND IN BEAMS SUPPORTING COLUMNS BEAR.
9. PROVIDE 1/4" THICK LEADING PLATE UNDER ALL COLUMN BASE PLATES UNLESS OTHERWISE NOTED.
10. PROVIDE ALL MISCELLANEOUS ANGLES, PLATES, ANCHORS, BOLTS, ETC. SHOWN ON ARCHITECTURAL DRAWINGS FOR SUPPORT OF BLOCKING, PARTERS, FINISHERS, ETC. CONFORM TO THE PROJECT SPECIFICATIONS TO ENSURE COMPLETE COVERAGE OF ALL ITEMS.

FOOTING SCHEDULE

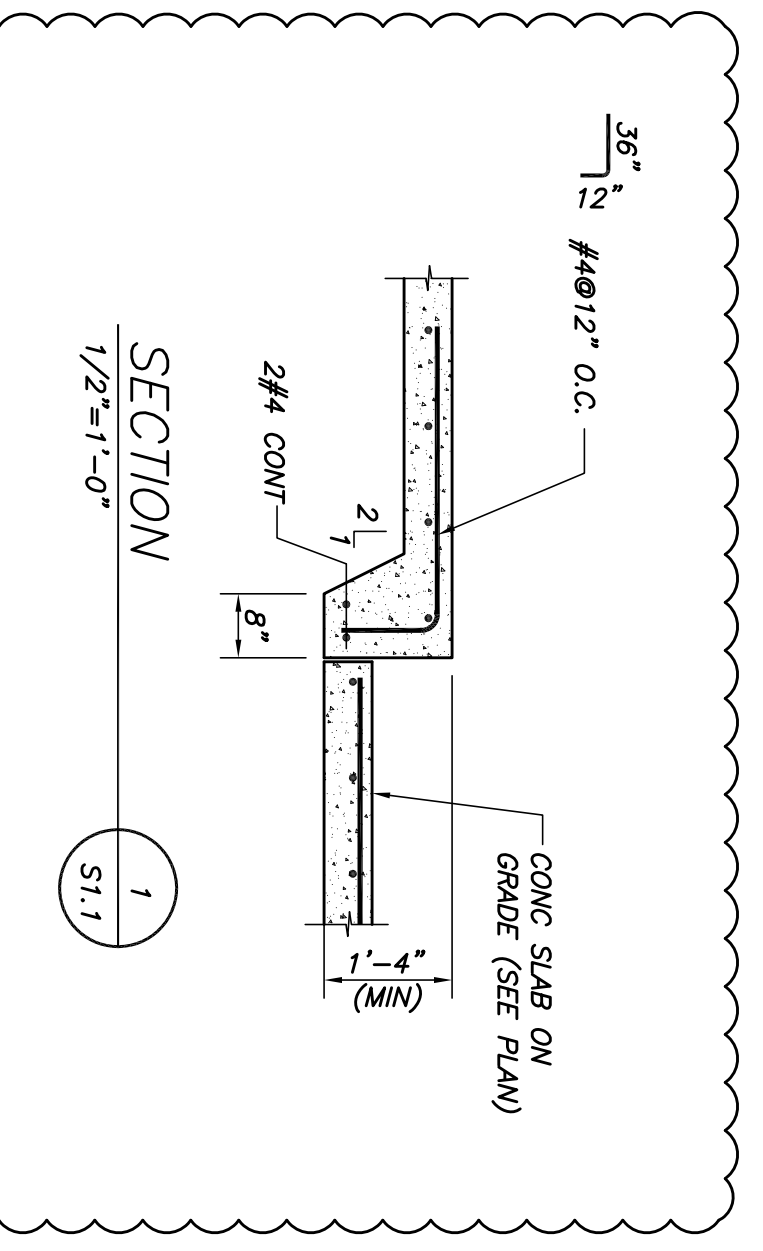
ITEM	DESCRIPTION	SIZE	QUANTITY
F46	4'-0" x 6'-0" x 1'-0"	5/8" L x 1/2" W	8
F5	5'-0" x 5'-0" x 1'-0"	5/8" L x 1/2" W	8

DETAILED WEB STEEL JOISTS

1. DESIGN DETAIL FABRICATE AND ERECT STEEL JOISTS IN ACCORDANCE WITH THE LATEST EDITION OF STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI).
2. HANGERS FOR DUCTS, PIPES, UNITS, ETC., MUST BE ATTACHED TO JOISTS AT PANEL POINTS ONLY. EXCEPT WHERE DESIGNATED ON "S" JOISTS, IN NO CASE SHALL ANY SINGLE POINT LOAD EXCEED 300 LBS.
3. PROVIDE BRACING AND BRACING ANCHORAGE IN ACCORDANCE WITH SJI SPECIFICATIONS. PROVIDE ADDITIONAL BRACING FOR UPLIFT FOR ROOF JOISTS WHERE REQUIRED BY SJI SPECIFICATIONS.

NOTICE

THE ARCHITECTURAL AND/OR ENGINEERING DRAWINGS ORIGINALLY PREPARED BY NUDELL ARCHITECTS, INC. FOR THE PROJECT IDENTIFIED HEREIN ARE THE PROPERTY OF NUDELL ARCHITECTS, INC. AND ARE NOT TO BE REPRODUCED, COPIED, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF NUDELL ARCHITECTS, INC.



1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH A REPORT ENTITLED "FOUNDATION DESIGN REPORT FOR ALL EXCAVATION, BACKFILL, REINFORCEMENT, AND CONSTRUCTION METHODS INCLUDED WITHIN THE PROJECT SPECIFICATIONS, DATED 01/25/2010. THE RECOMMENDATIONS OF THE REPORT ARE PART OF THIS WORK. REFER TO THIS REPORT FOR SPECIFIC FOUNDATION DESIGN RECOMMENDATIONS.
2. SUITABLE UNDISTURBED NATIVE SOILS AND/OR NEW COMPACTED STRUCTURAL FILL EXTENDING TO UNDISTURBED NATIVE SOIL PER THE REQUIRED DEPTHS OF THE RECOMMENDATIONS.
3. ALLOWABLE BEARING CAPACITY: 2,500 PSF.
4. EXTEND BOTTOM OF EXTERIOR FOOTINGS AT LEAST 4.5 FEET BELOW THE FINAL EXTERIOR GRADE FOR PROTECTION AGAINST FROST.
5. NO FILL FOR BUILDING SUPPORT SHALL BE PLACED UNTIL SUBGRADE HAS BEEN OBSERVED AND APPROVED BY THE GEOTECHNICAL ENGINEER.
6. REFERENCE THE GEOTECHNICAL REPORT FOR ALL EXCAVATION, BACKFILL, REINFORCEMENT, AND CONSTRUCTION METHODS INCLUDED WITHIN THE PROJECT SPECIFICATIONS. THE REPORT SHALL BE INCLUDED AS PART OF THE PROJECT WORK.
7. SOILS EXPOSED AT THE BASE OF ALL SUSPENSORY FOUNDATION EXCAVATIONS, SUCH AS DISTURBANCE FROM RAIN OR FROST SURFACE RUNOFF SHOULD BE PROTECTED AGAINST ANY DETRIMENTAL CHANGE IN CONDITION. FOUNDATION EXCAVATIONS AND SHOULD BE ADEQUATELY PROTECTED FROM RAINFALL OR FREEZING CONDITIONS. DRAINAGE CHANNELS SHOULD BE EMPLOYED TO REMOVE WATER AND APPROPRIATE MEASURES SHOULD BE EMPLOYED.
8. EXCAVATIONS FOR BUILDING CONSTRUCTION SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS. GRADED EXCAVATIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF WAHNE. DO NOT UNDERMINE EXISTING FOUNDATIONS REGISTERED IN THE STATE OF WAHNE. REFER TO THE PROJECT SPECIFICATIONS FOR ADDITIONAL AND/OR MORE SPECIFIC REQUIREMENTS.

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NOTE: THE FOLLOWING ITEMS HAVE BEEN INCORPORATED IN THE FOUNDATION & ROOF DESIGN ONLY:

1. CHALLENGER LIFT (CL 10/02)
2. ENVIRONMENTAL VEHICLE EXHAUST SYSTEM
3. PERMIT # PERMIT 212102
4. PERMIT # PERMIT 212102
5. PERMIT # PERMIT 212102
6. PERMIT # PERMIT 212102

ISSUED FOR DATE
 THE PLAN APPROVAL 11/01/08
 PERMIT # PERMIT 212102
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 PERMIT # PERMIT 212102
 PERMIT # PERMIT 212102

PROJECT NUMBER
 2008-279

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 EAS
 APPROVED
 PFB

FOR THE STATE ENGINEER
 REGISTERED PROFESSIONAL ENGINEER
 WAHNE, WASHINGTON

FOUNDATION PLAN
 AND GENERAL
 NOTES

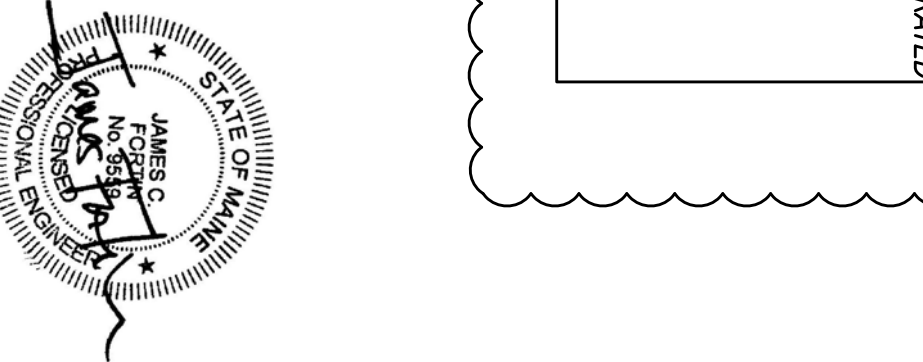
Sheet title
 project title
 EXISTING
 TSL
 BUILDING
 SERVICE
 ADDITION
 PORTLAND, ME

BECKER
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 TEL: 603.761.1111
 FAX: 603.761.1112
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 5180 W. Twelve Mile Road
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 TEL: 603.883.1234
 FAX: 603.883.1235
 WWW.NUDELLARCHITECTS.COM

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