THE **HIGHLANDER TOWNHOMES** 30TH AND PATRICK **OMAHA NE 68111**



CONTACT INFORMATION

PROJECT INFORMATION

DRAWING SHEET INDEX

VICINITY MAP

NORTH 30TH STREET

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MEP ENGINEER

ENGINEERING TECHNOLOGIES, INC 1111 NORTH 13TH ST. #216 OMAHA, NEBRASKA, 68102 (402)330-2772 / FAX: (402)330-2630

- 2006 INTERNATIONAL RESIDENTIAL CODE
- 2014 NATIONAL ELECTRICAL CODE
- 2000 LIFE SAFETY CODE & 2003 INTERNATIONAL FIRE CODE
- 2006 INTERNATIONAL MECHANICAL CODE & CHAPTER 40 OMAHA MUNICIPAL CODE OMAHA PLUMBING CODE & CH 49 OMAHA MUNICIPAL CODE

TOTAL 'B' UNITS 10

TOTAL UNITS	10
TOTAL 'A' UNITS	0

Provide below slab gas mitigation system integrated into vapor barrier and extended

through roof at first floor of building one. Coordinate location with Architect.

Replace all fiberglass windows with vinyl windows. Basis of design TBD.

APPLICABLE CODES

- 2009 INTERNATIONAL ENERGY CONSERVATION CODE_CHAPTER 4
- 2006 INTERNATIONAL BUILDING CODE INCL. ANSI A 117.1-03

ACCESSIBILITY / ADAPTABILITY INFORMATION

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- BUILDING A (NORTH LANDSCAPE PLAN) BUILDING B (SOUTH LANDSCAPE PLAN)
- HARDSCAPE DETAILS HARDSCAPE DETAILS L4.1

COVER SHEET

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SITE GRADING PLAN

SITE GRADING PLAN

STORM SEWER PLAN

STORM SEWER PLAN

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MISCELLANEOUS DETAILS

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WALL, FLOOR & ROOF TYPES

HARDSCAPE DETAILS L4.2

LANDSCAPE DETAILS /1 \$16.0

AS1.0 SITE PLAN

ARCHITECTURAL

GENERAL

CODE

- AS1.1 STORM SHELTER FLOOR PLANS, ELEVATIONS AND SECTIONS FLOOR PLANS TYPICAL
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- BUILDING SECTIONS
- WALL SECTION DETAILS GENERAL BUILDING DETAILS DOOR SCHEDULE & FRAME ELEVATIONS
- REFLECTED CEILING PLANS TYPICAL
- ENLARGED TYPICAL UNIT PLAN UNIT - KITCHEN AND BATHROOM ELEVATIONS

STRUCTURAL

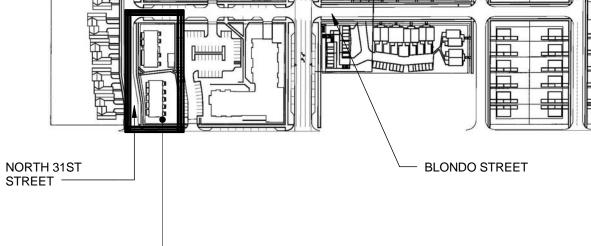
- STRUCTURAL NOTES FOUNDATION PLAN
- SECOND FLOOR FRAMING PLAN
- ROOF FRAMING PLAN
- FOUNDATION AND ROOF FRAMING PLANS STORM SHELTER
- STRUCTURAL SECTIONS STRUCTURAL SECTIONS

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- ENLARGED TYPICAL UNIT MECHANICAL PLANS
- MECHANICAL DETAILS AND RISERS MECHANICAL SCHEDULES & SYMBOLS

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- ELECTRICAL SITE PLAN
- TYPICAL UNIT ELECTRICAL PLANS
- ELECTRICAL SCHEDULES
- ELECTRICAL SYMBOLS, DETAILS, AND RISER DIAGRAMS





SUBMITTALS

DD SET ISSUED FOR DESIGN DEVELOPMENT

09/25/2015 RAZ

09/30/2015 RAZ

ALLEY-POYNER

MACCHIETTO

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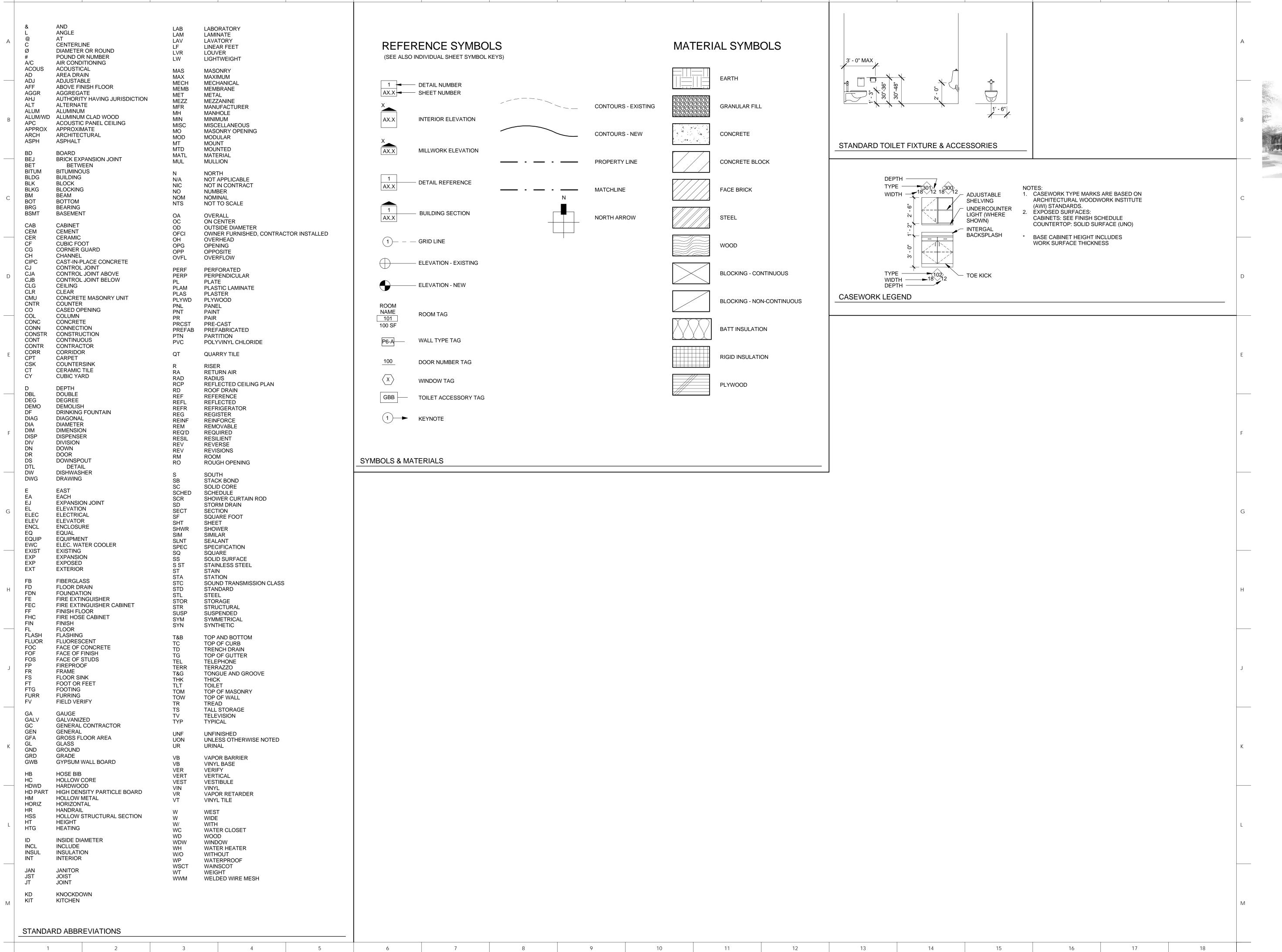
ARCHITECT / COORDINATING PROFESSIONAL

I, Michael Alley, am the Coordinating Professional on the THE HIGHLANDER TOWNHOMES

ALLEY

POYNER MACCHIETTO ARCHITECTURE

06/15/2015



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12

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THE **HIGHLANDER TOWNHOMES** 30TH AND PATRICK OMAHA NE 68111



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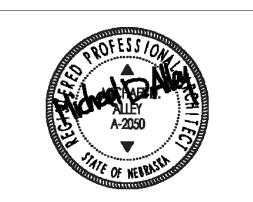
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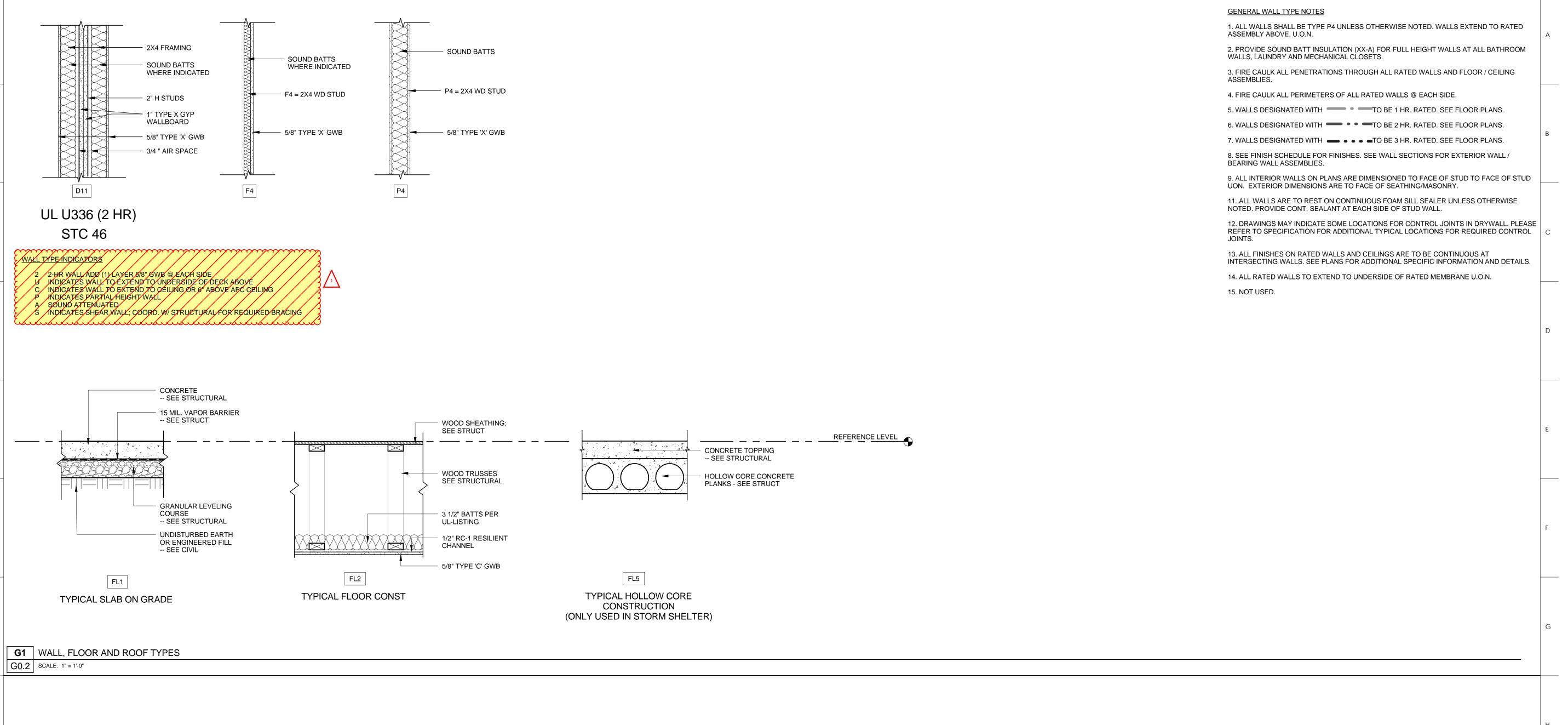
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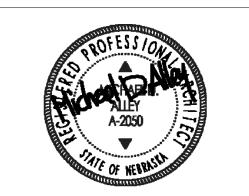
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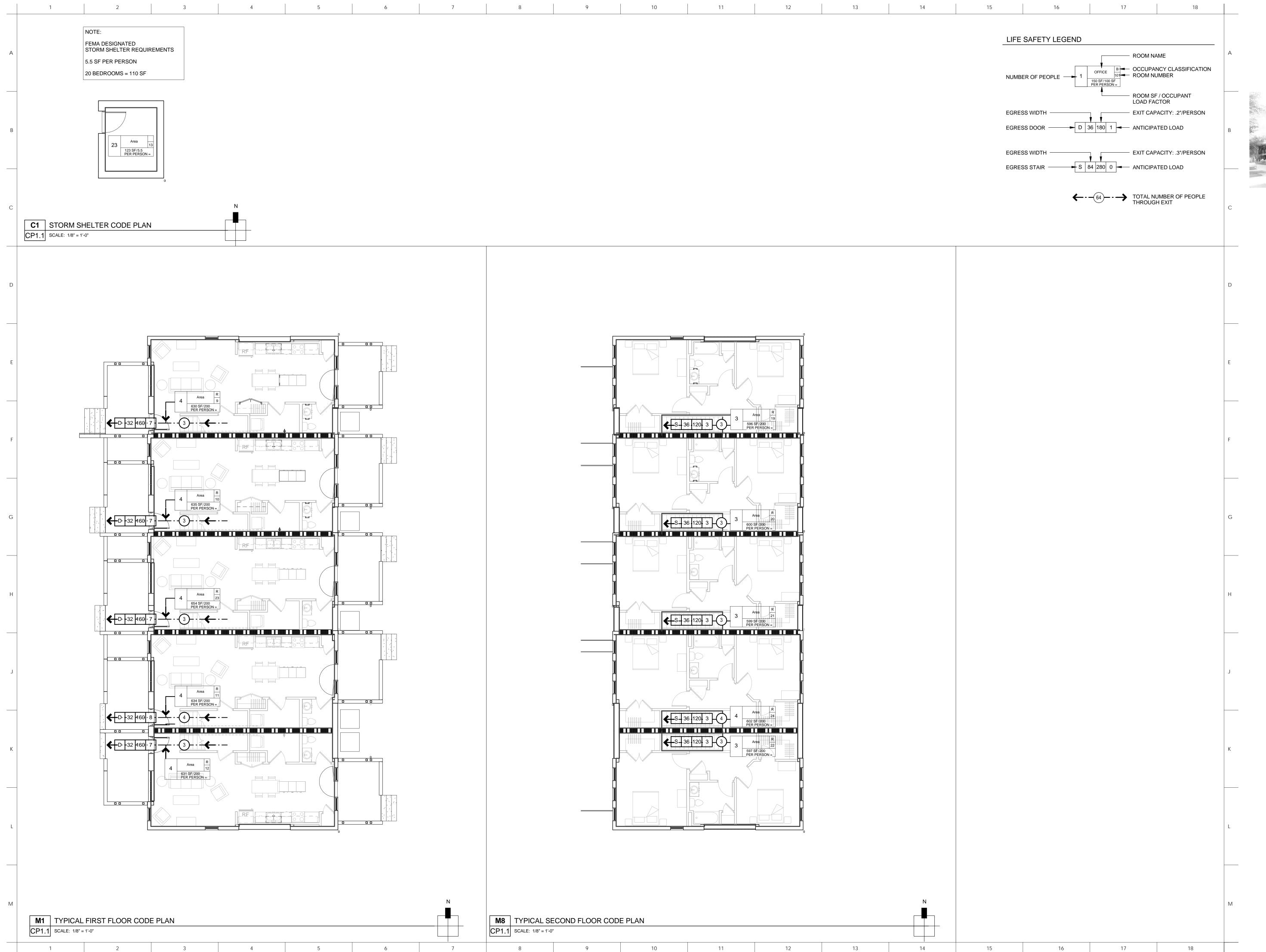
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Wall, Floor & Roof Types

DATE





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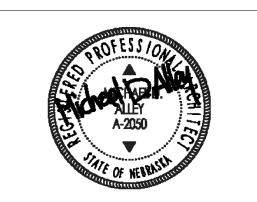
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CODE PLAN - TYPICAL BUILDING

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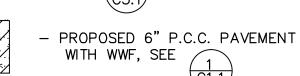
LEGEND

- PROPERTY LINE

- PROPOSED BUILDING



PROPOSED 6" P.C.C. PAVEMENT SEE



PROPOSED 7" P.C.C. PAVEMENT,

- PROPOSED 5" P.C.C. SIDEWALK SEE

- PROPOSED RETAINING WALL

- PROPOSED CURB INLET

PROPOSED STORMCEPTOR

- PROPOSED MANHOLE

PROPOSED AREA INLET

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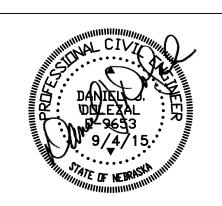
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ADDENDUM #3

04/07/16

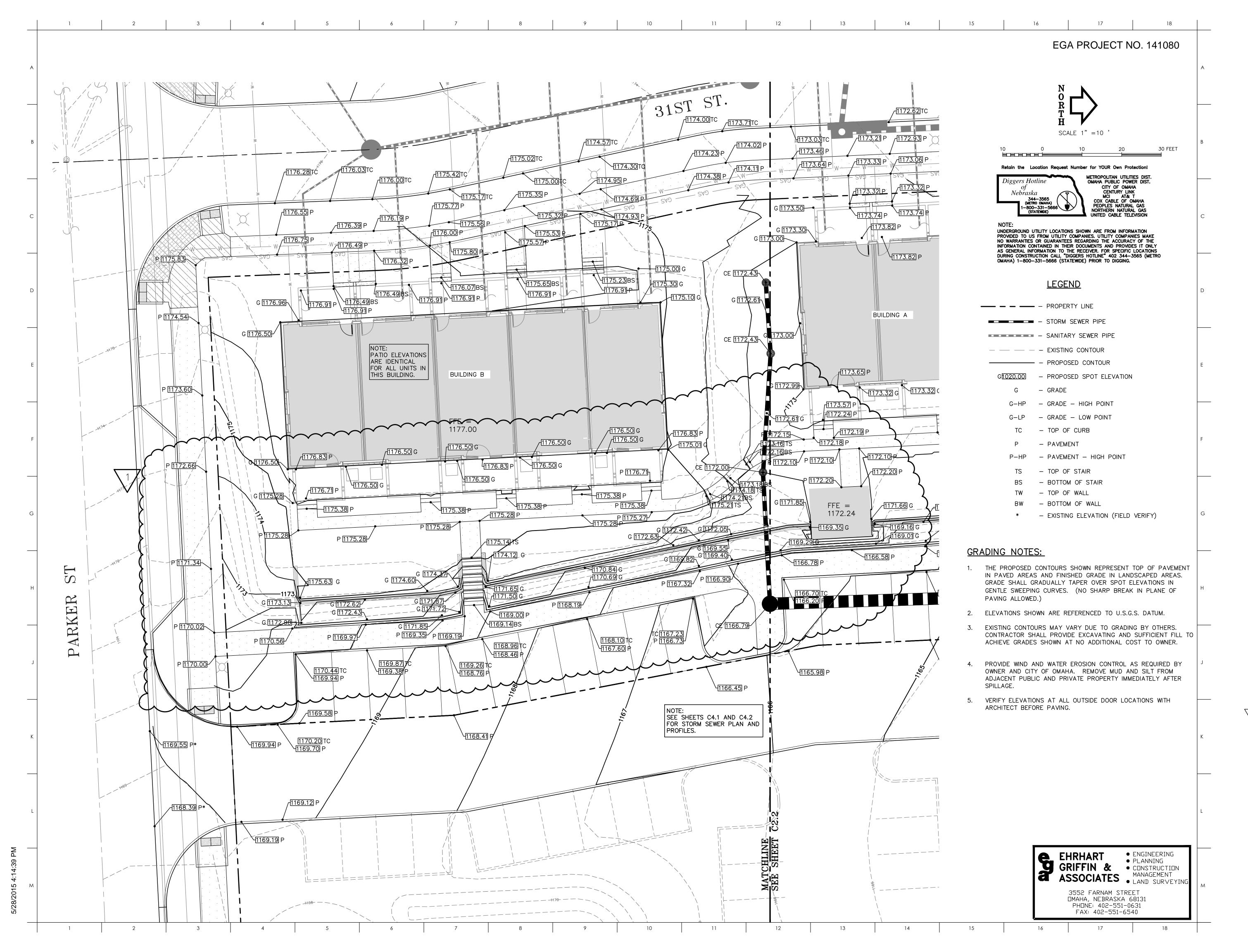
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SITE LAYOUT PLAN

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ADDENDUM #3

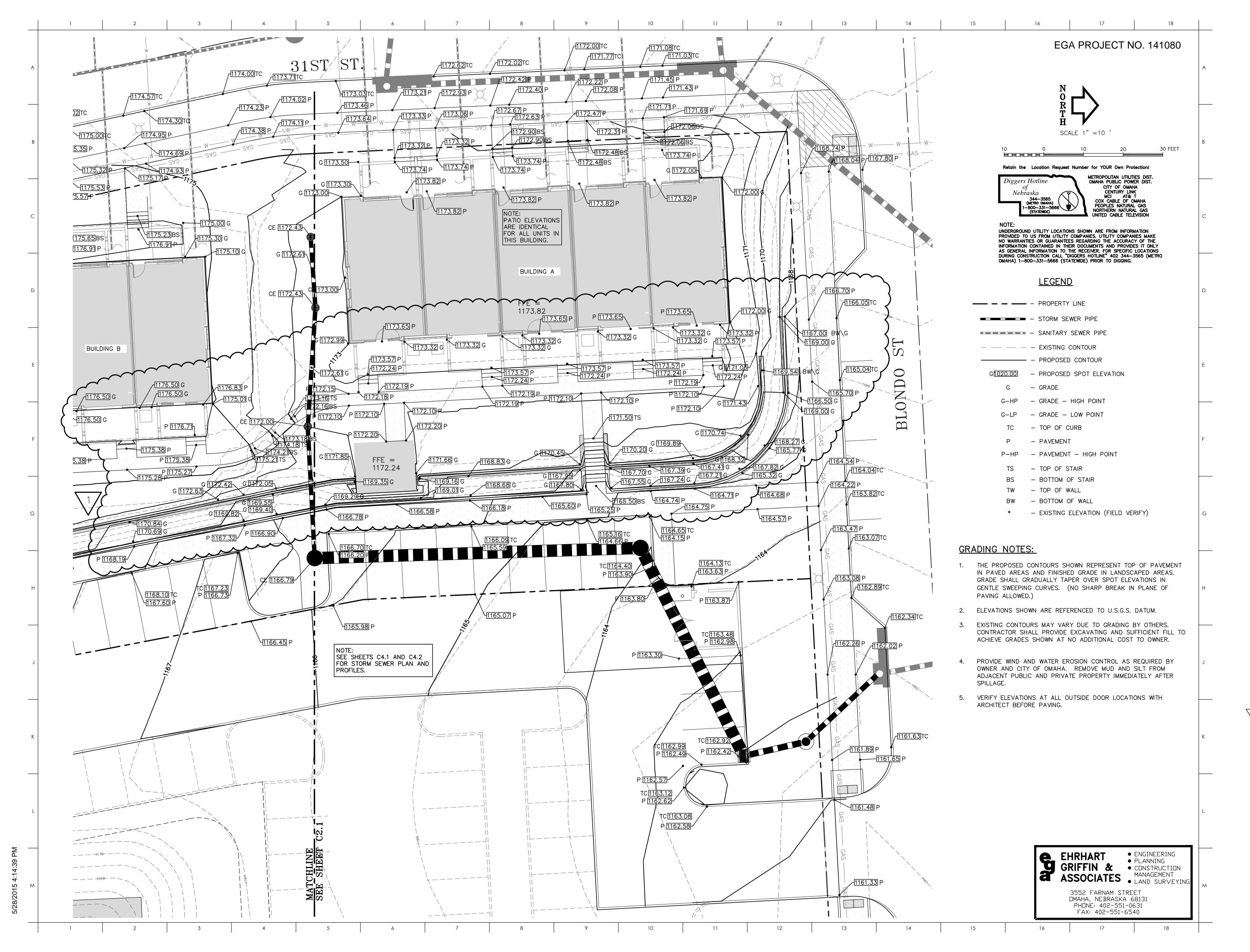
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SITE GRADING PLAN



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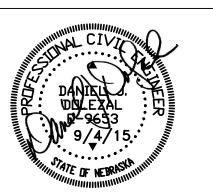
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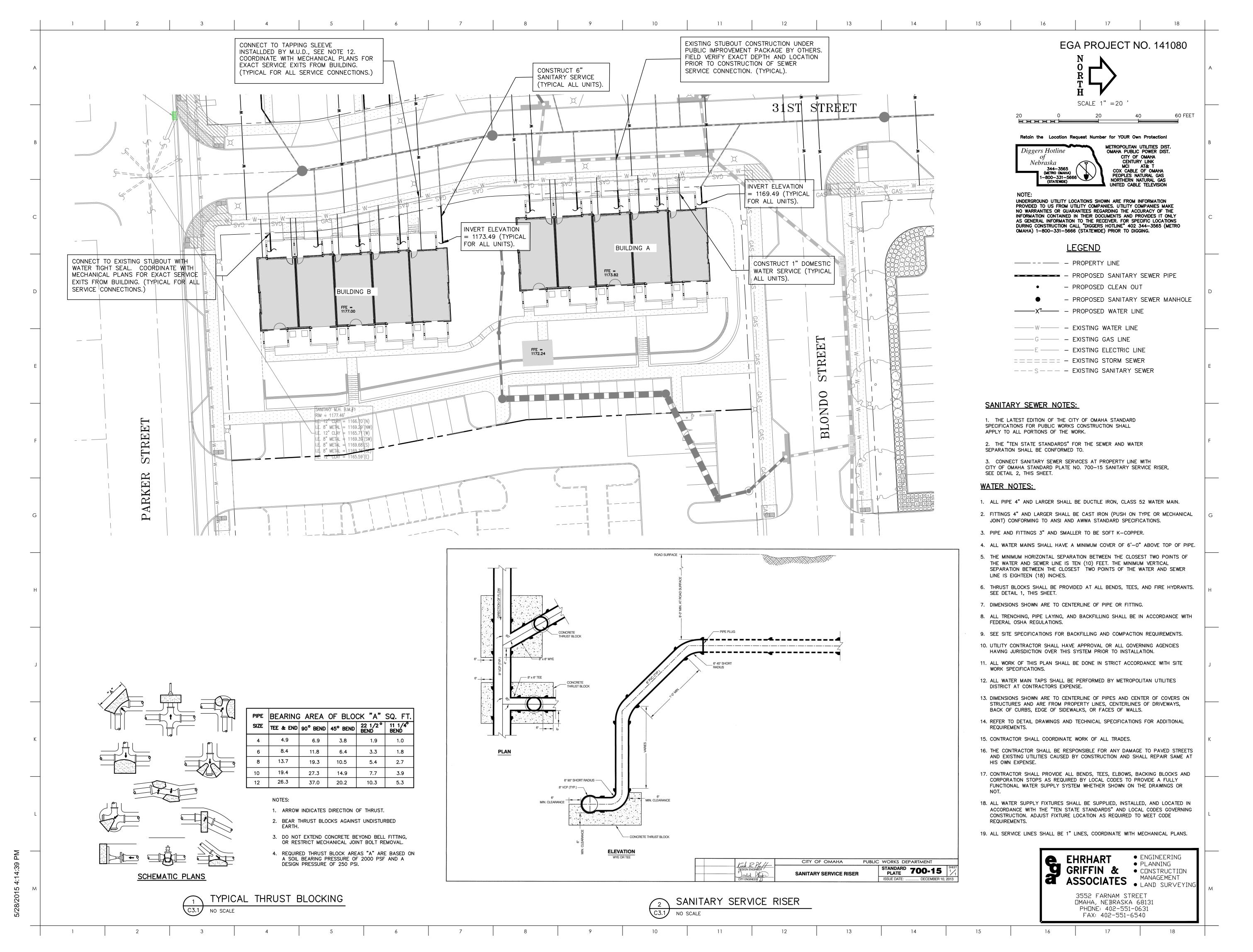
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SITE GRADING PLAN



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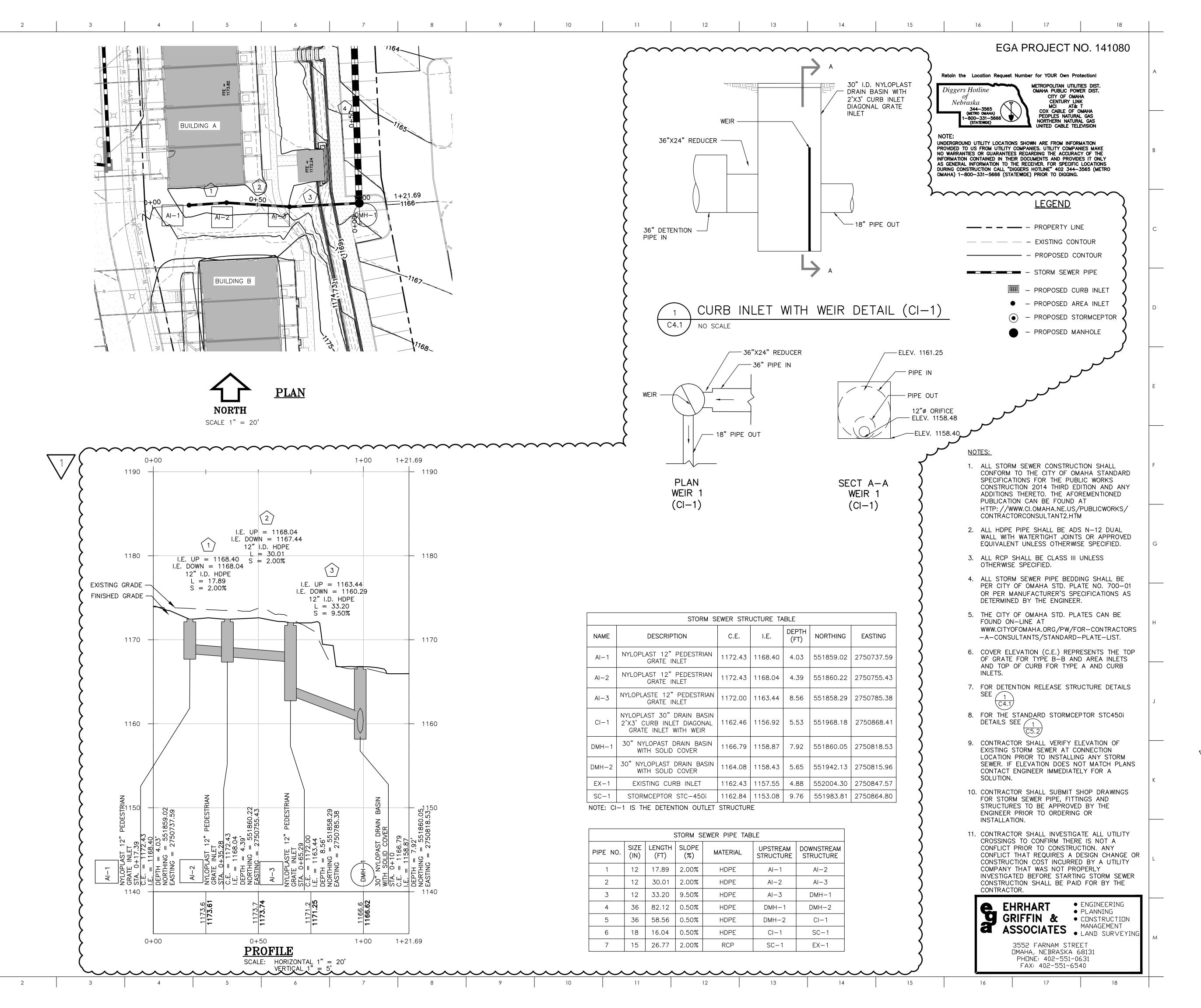
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SITE UTILITY PLAN



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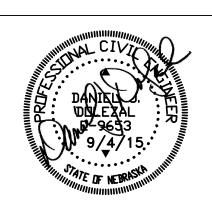
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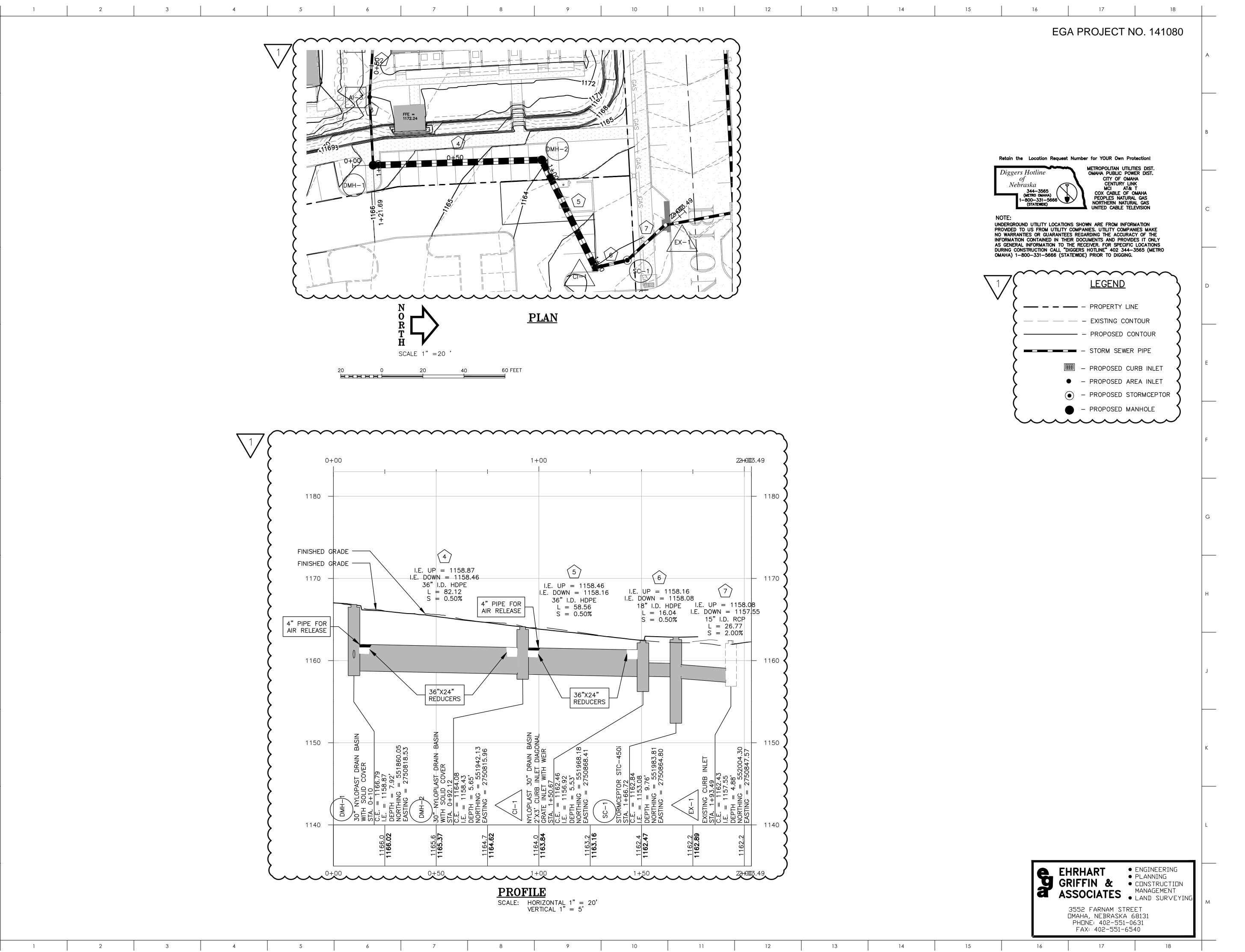
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STORM SEWER PLAN



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ALLEY-POYNER MACCHIETTO

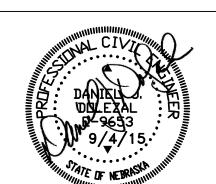
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1/ ADDENDUM #3

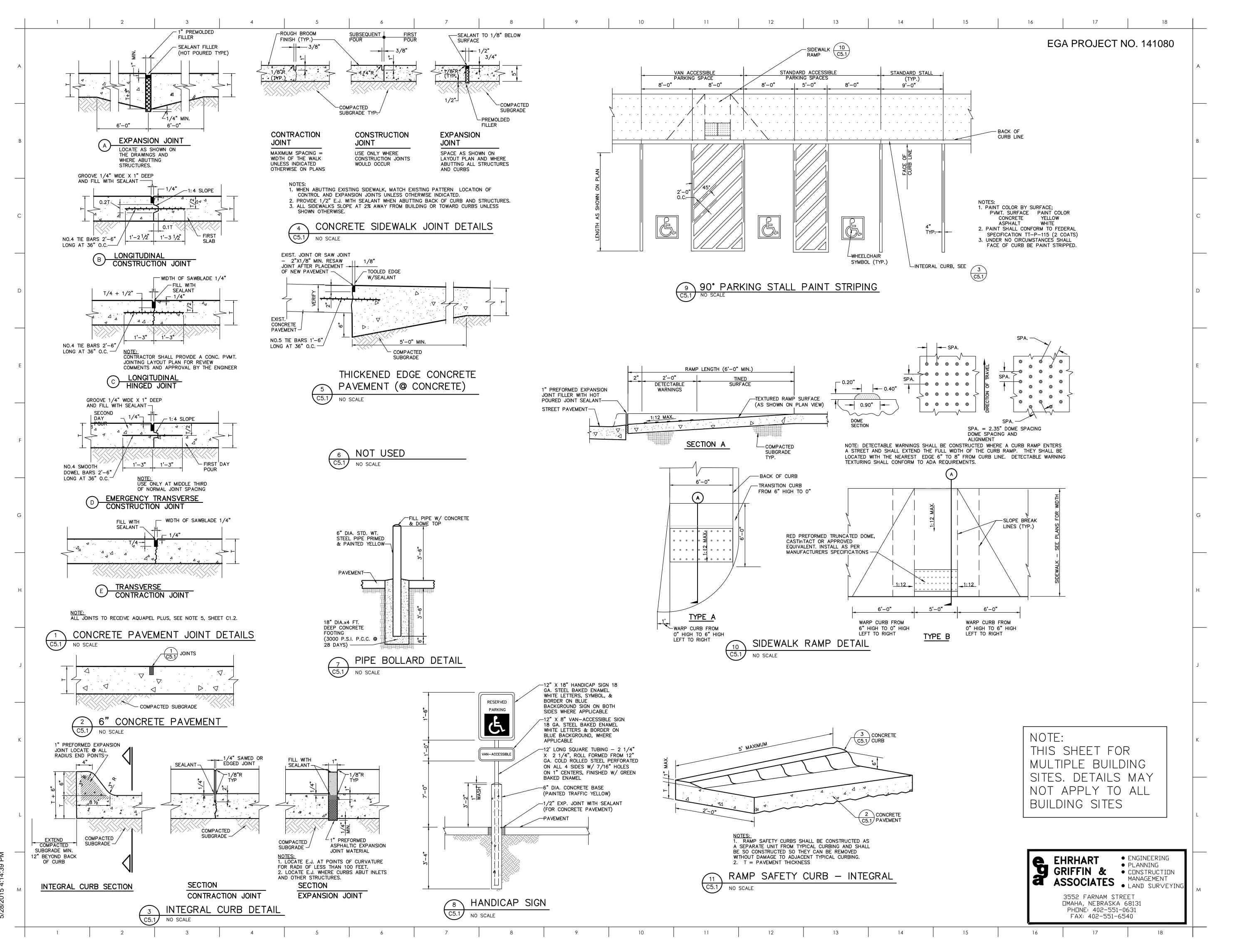
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STORM SEWER PLAN



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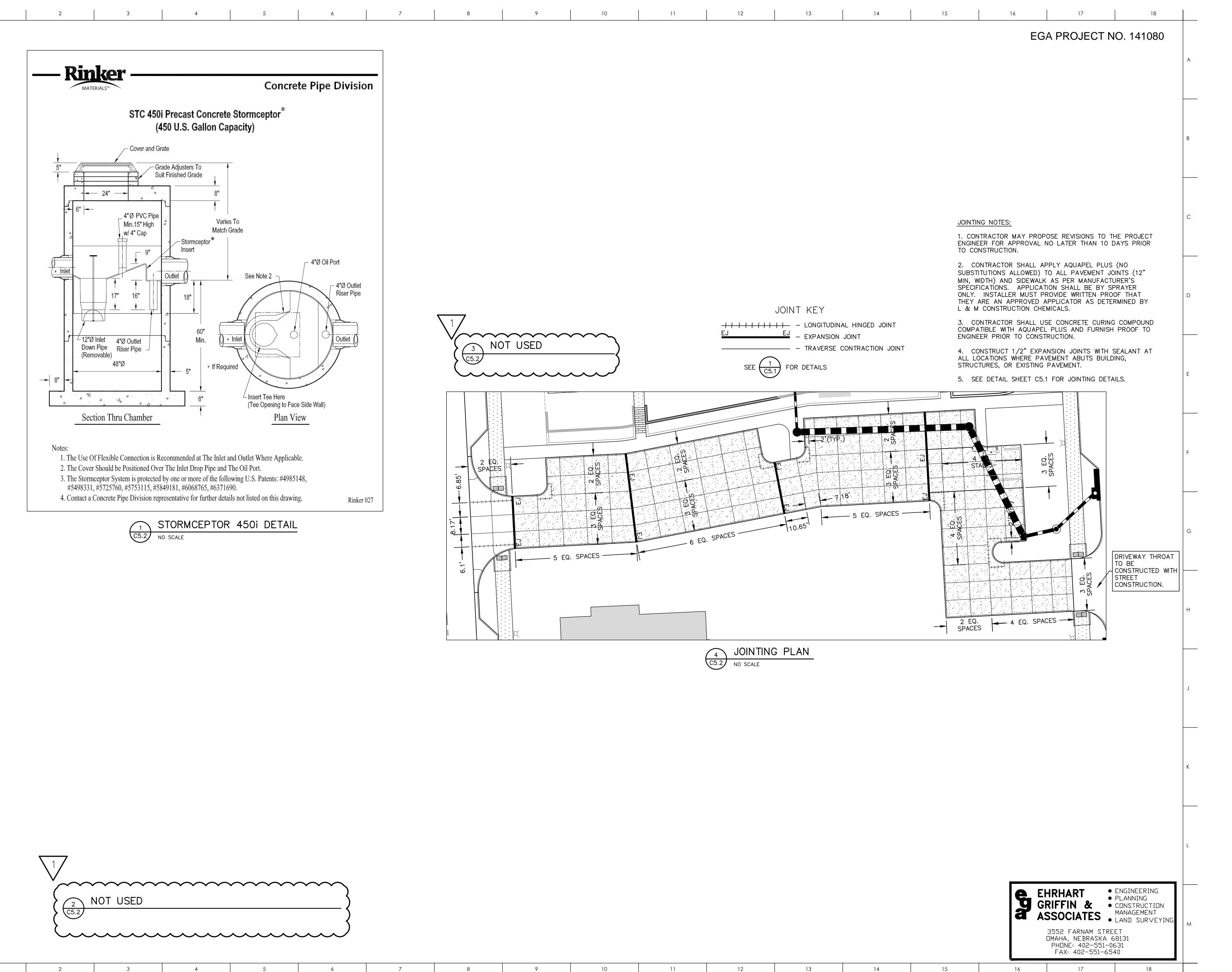
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MISCELLANEOUS DETAILS

C5.1



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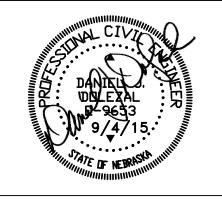
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ADDENDUM #3

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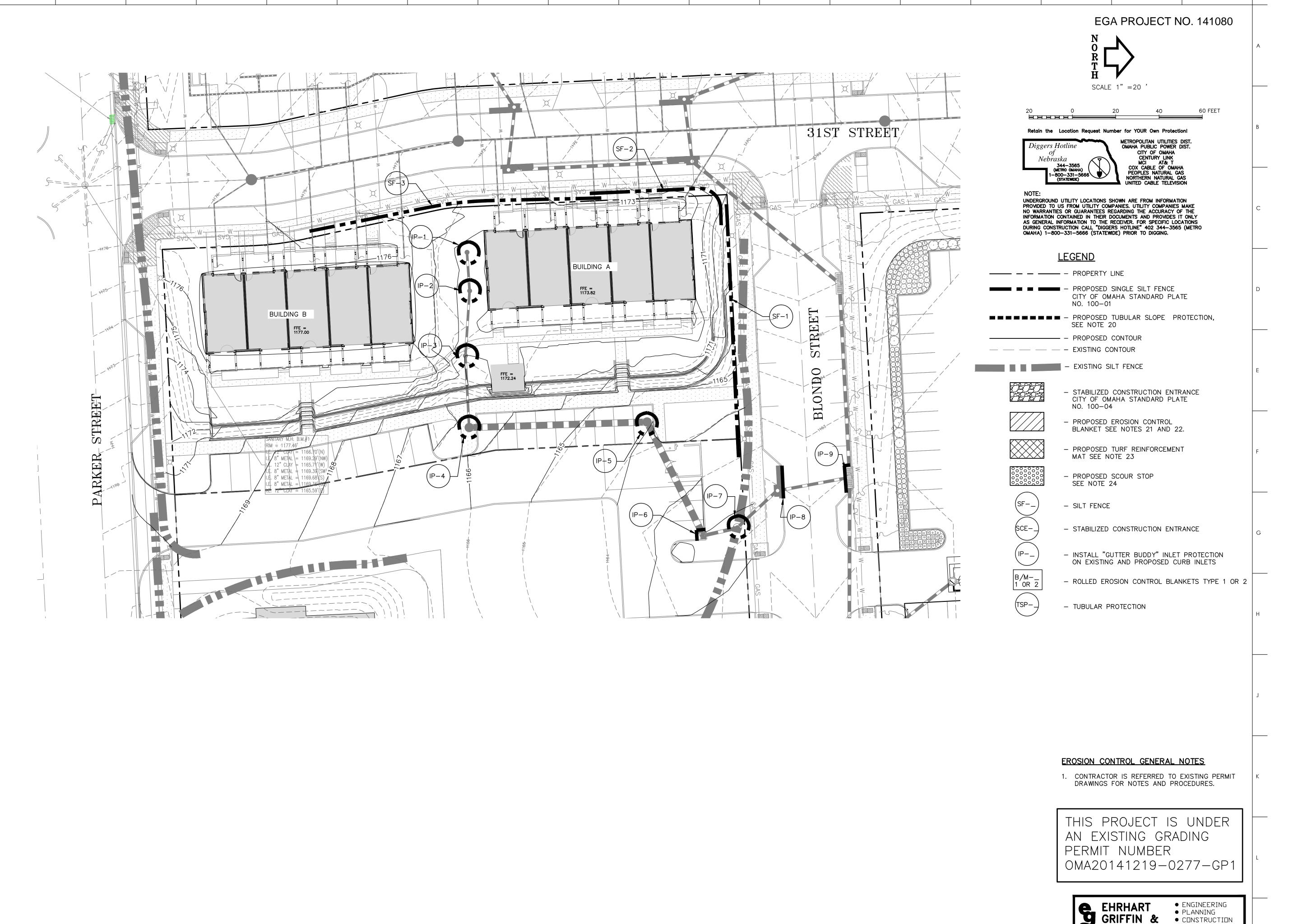
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MISCELLANEOUS DETAILS



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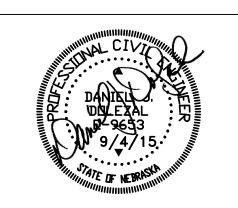
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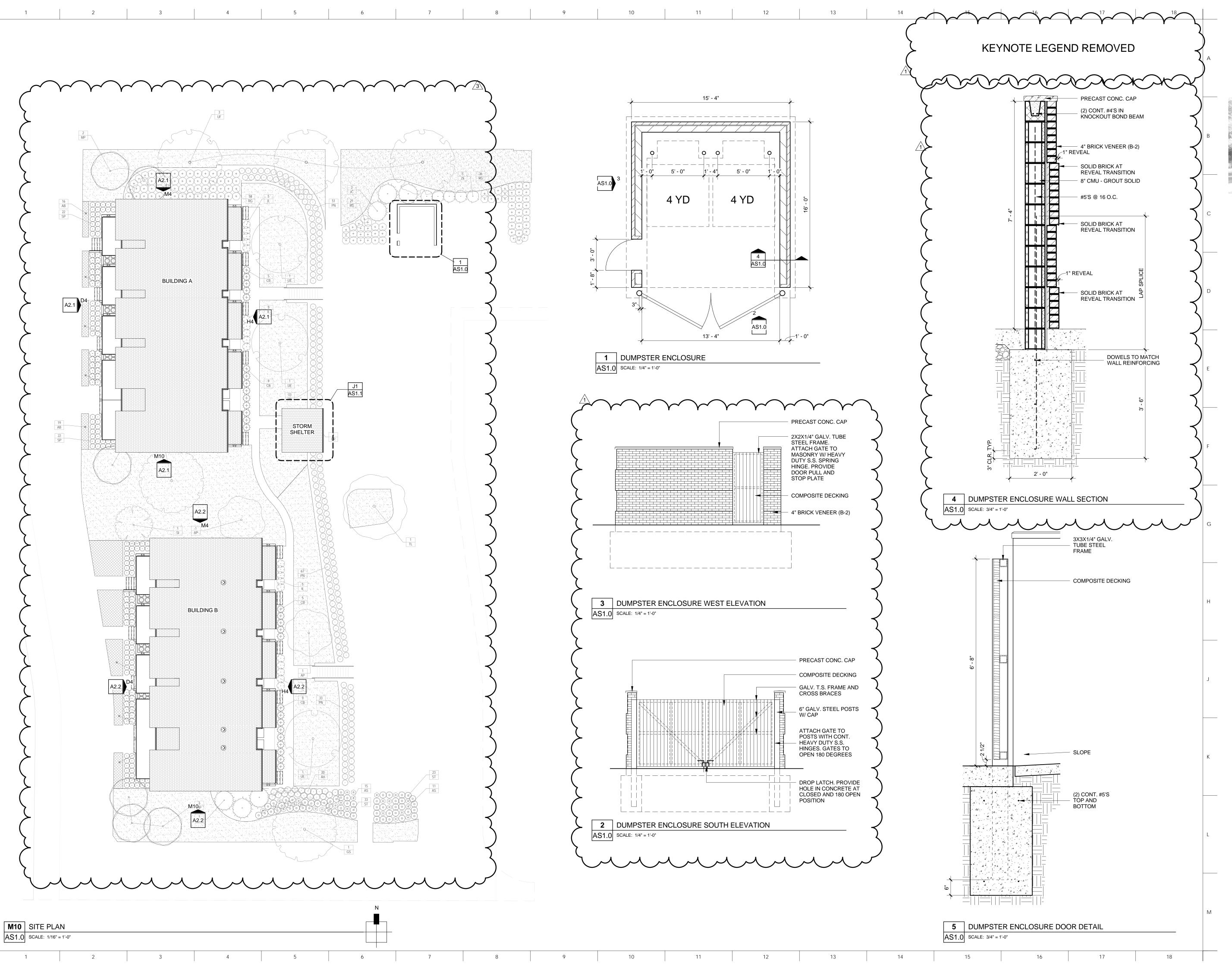
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STORMWATER POLLUTION
PREVENTION PLAN

C6.1



30TH AND PATRICK OMAHA NE 68111



ALLEY-POYNER MACCHIETTO

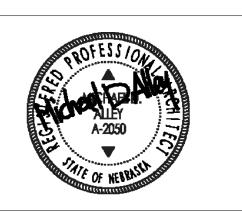
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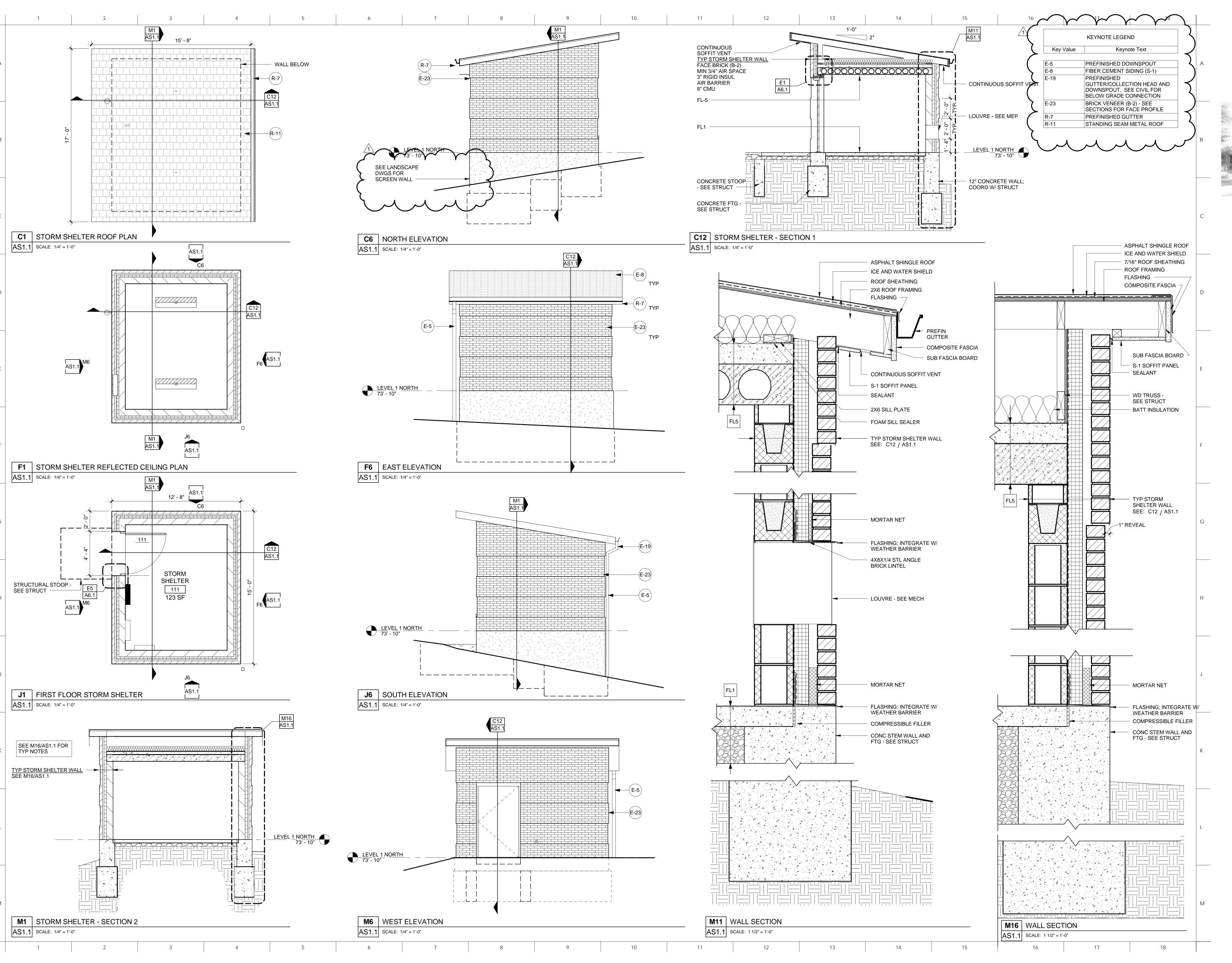
Date 1

04/04/2016

PROJECT NUMBER: 15051-2 DATE: September 4, 2015

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SITE PLAN





ALLEY POYNER MACCHIETTO

ARCHITECTURE 1516 Cuming Street Omaha, NE 68102

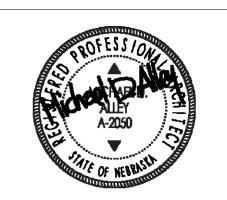
Ph: 402.341.1544 Fx: 402.341.4735

CIVIL ENGINEER
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STRUCTURAL ENGINEER THOMPSON DREESEN & DORNER, INC. 10836 OLD MILL ROAD OMAHA, NEBRASKA, 68154

(402)330-8860 / FAX: (402)330-5866 MECHANICAL ENGINEER ENGINEERING TECHNOLOGIES, INC. 1111 NORTH 13TH ST. #216 OMAHA, NEBRASKA, 68102 (10)3230 2373 (242)

(402)330-2772 / FAX: (402)330-2630 ELECTRICAL ENGINEER ENGINEERING TECHNOLOGIES, INC. 1111 NORTH 13TH ST. #216 OMAHA, NEBRASKA, 68102 (402)330-2772 / FAX: (402)330-2630

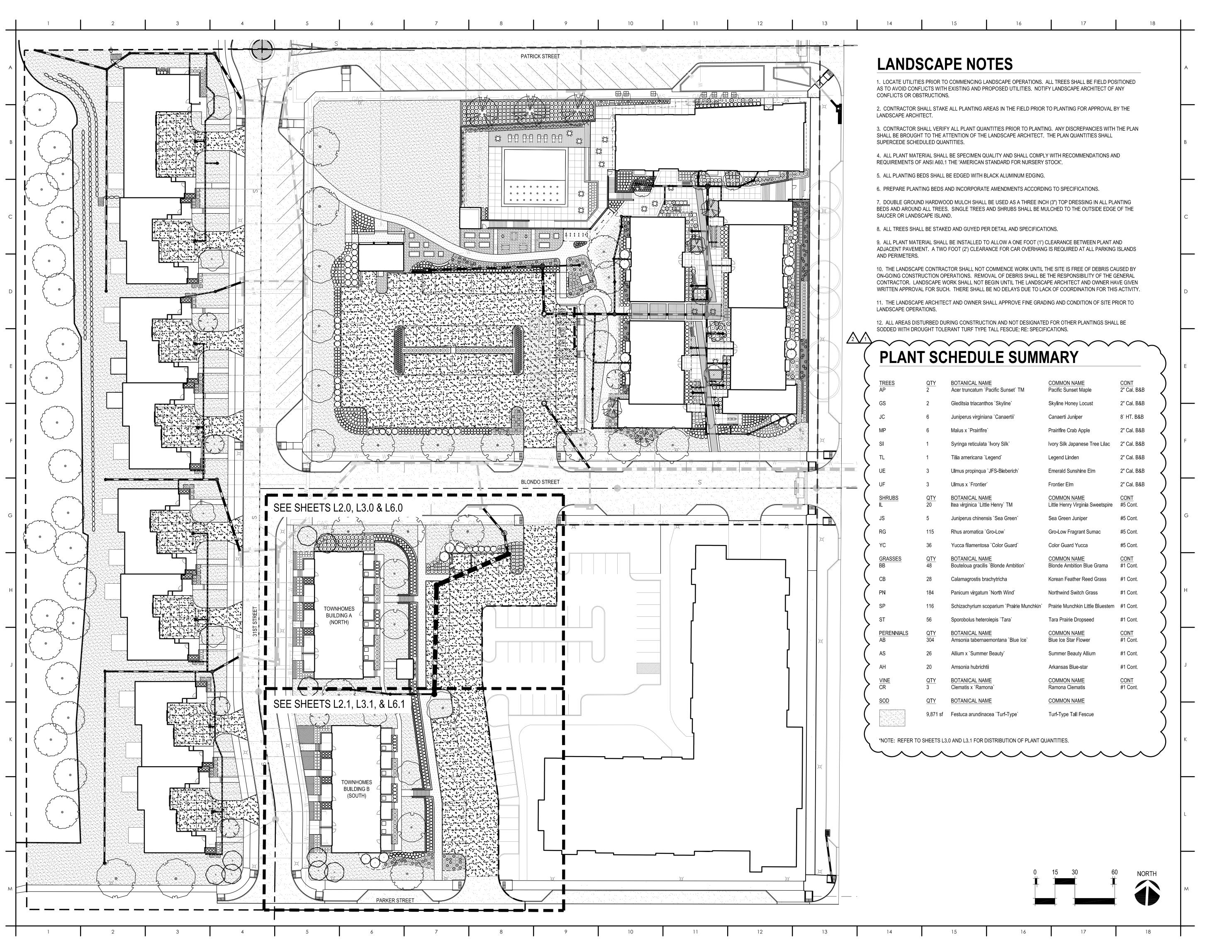


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STORM SHELTER FLOOR PLANS, **ELEVATIONS AND SECTIONS**



31ST AND PARKER **OMAHA NE 68111**

ALLEY POYNER MACCHIETTO

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(402)330-8860 / FAX: (402)330-5866 LANDSCAPE ARCHITECT 1111 NORTH 13TH ST. #116 OMAHA, NEBRASKA, 68102

ELECTRICAL ENGINEER ENGINEERING TECHNOLOGIES, INC. 1111 NORTH 13TH ST. #216 OMAHA, NEBRASKA, 68102 (402)330-2772 / FAX: (402)330-2630

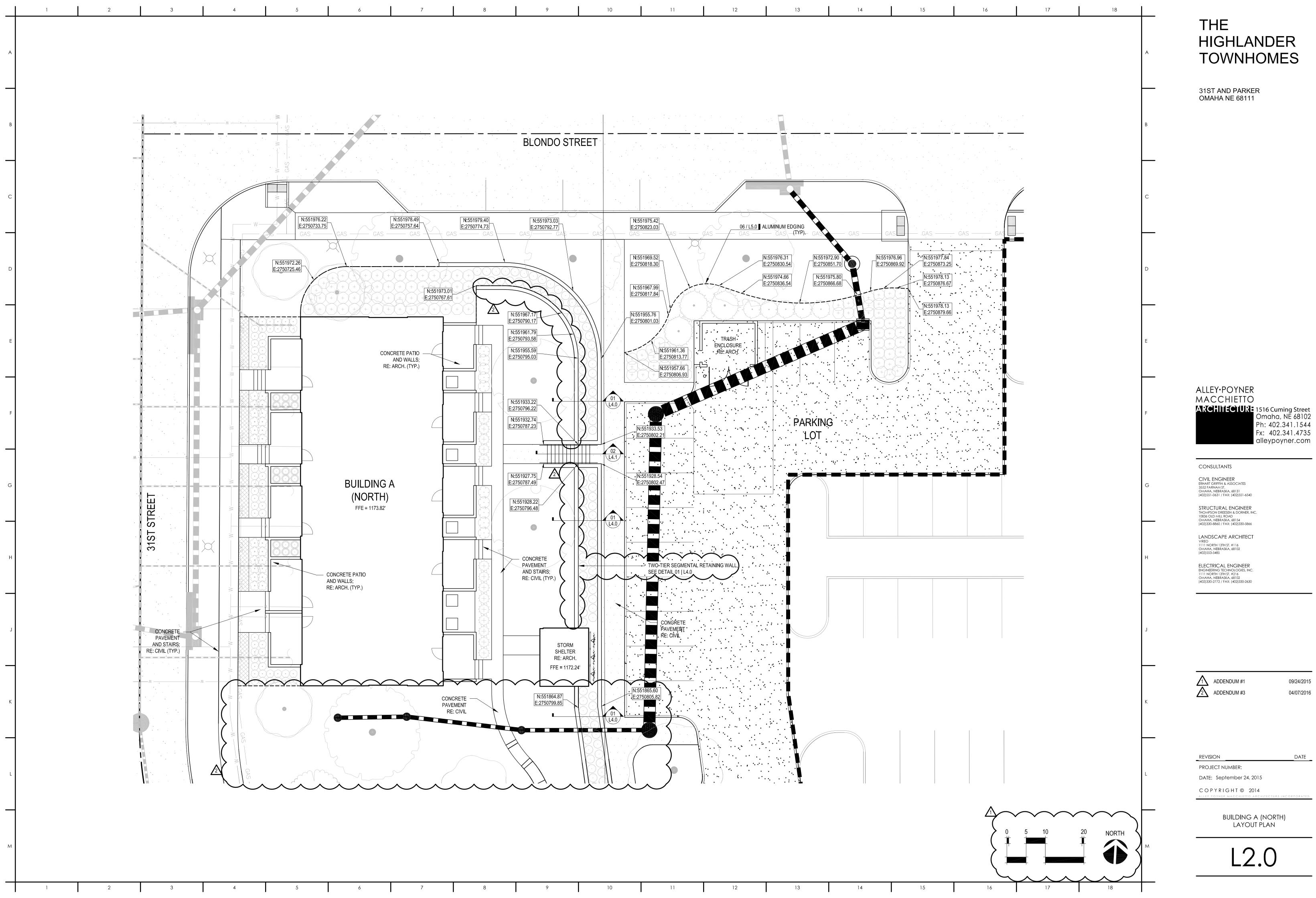
(402)553-5485

ADDENDUM #1 09/24/2015 ADDENDUM #3 04/07/2016

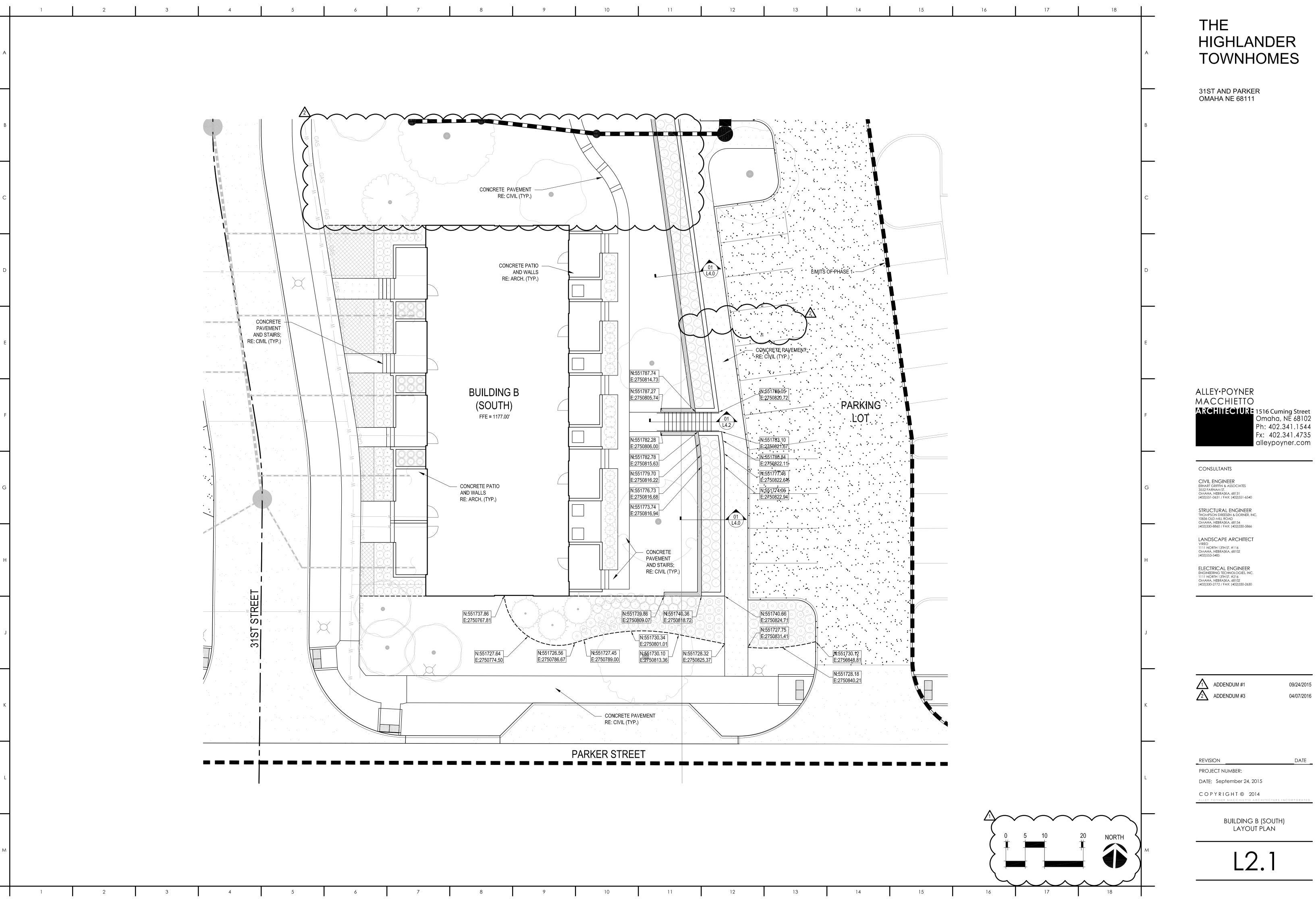
REVISION PROJECT NUMBER: DATE: September 24, 2015

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OVERALL SITE PLAN

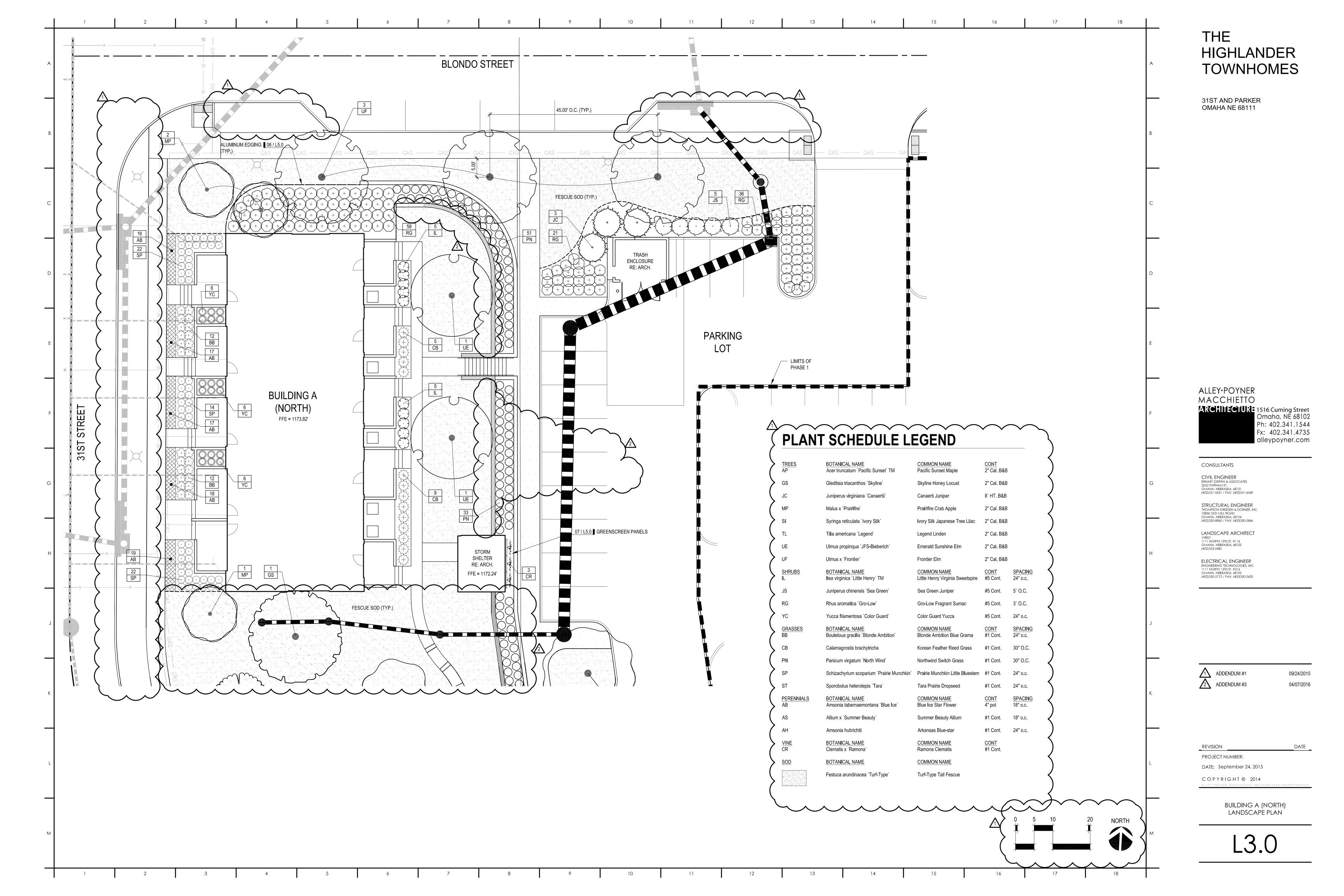


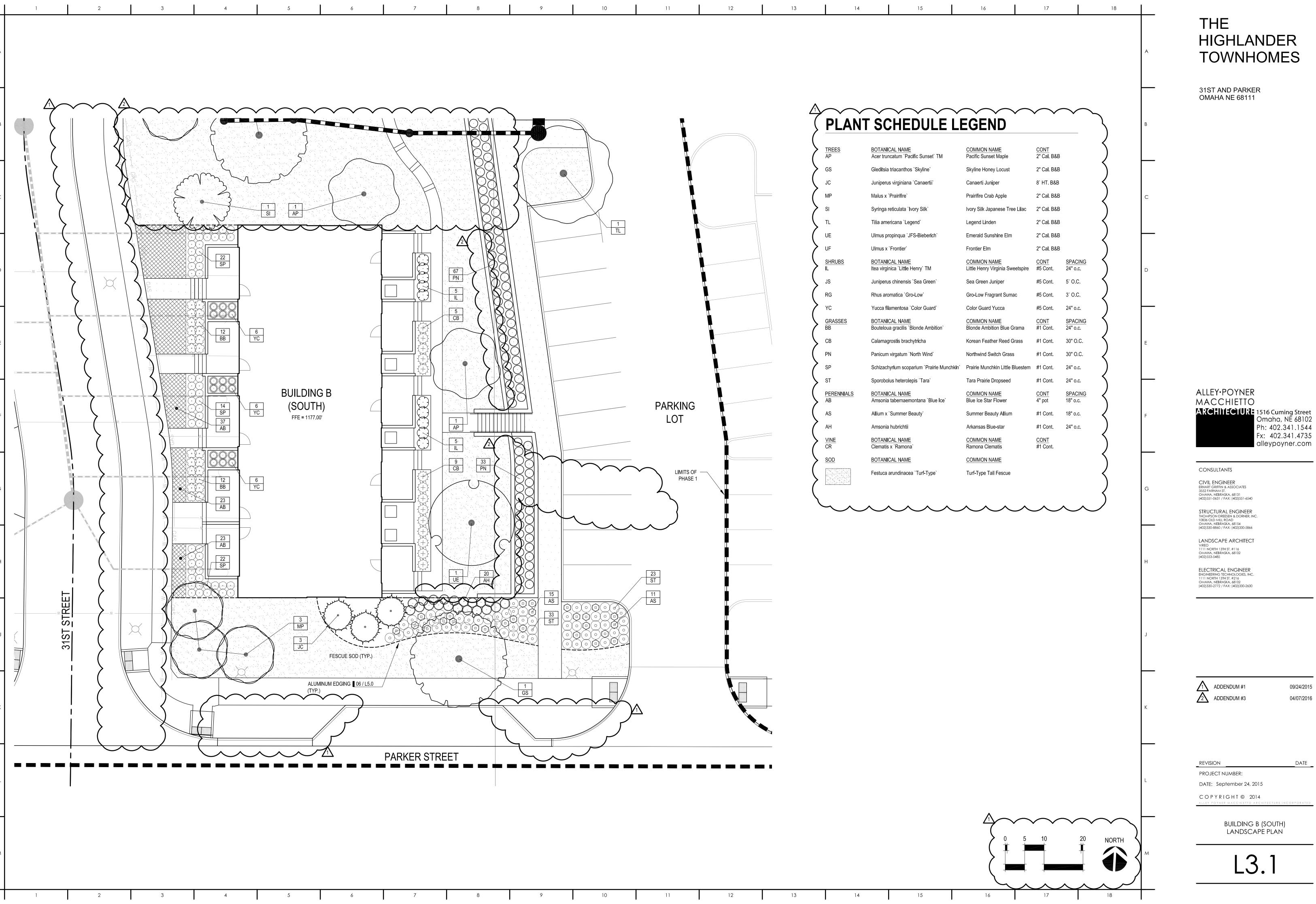
04/07/2016



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04/07/2016





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ALLEY-POYNER MACCHIETTO

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LANDSCAPE ARCHITECT

ELECTRICAL ENGINEER ENGINEERING TECHNOLOGIES, INC. 1111 NORTH 13TH ST. #216 OMAHA, NEBRASKA, 68102 (402)330-2772 / FAX: (402)330-2630

ADDENDUM #1 ADDENDUM #3

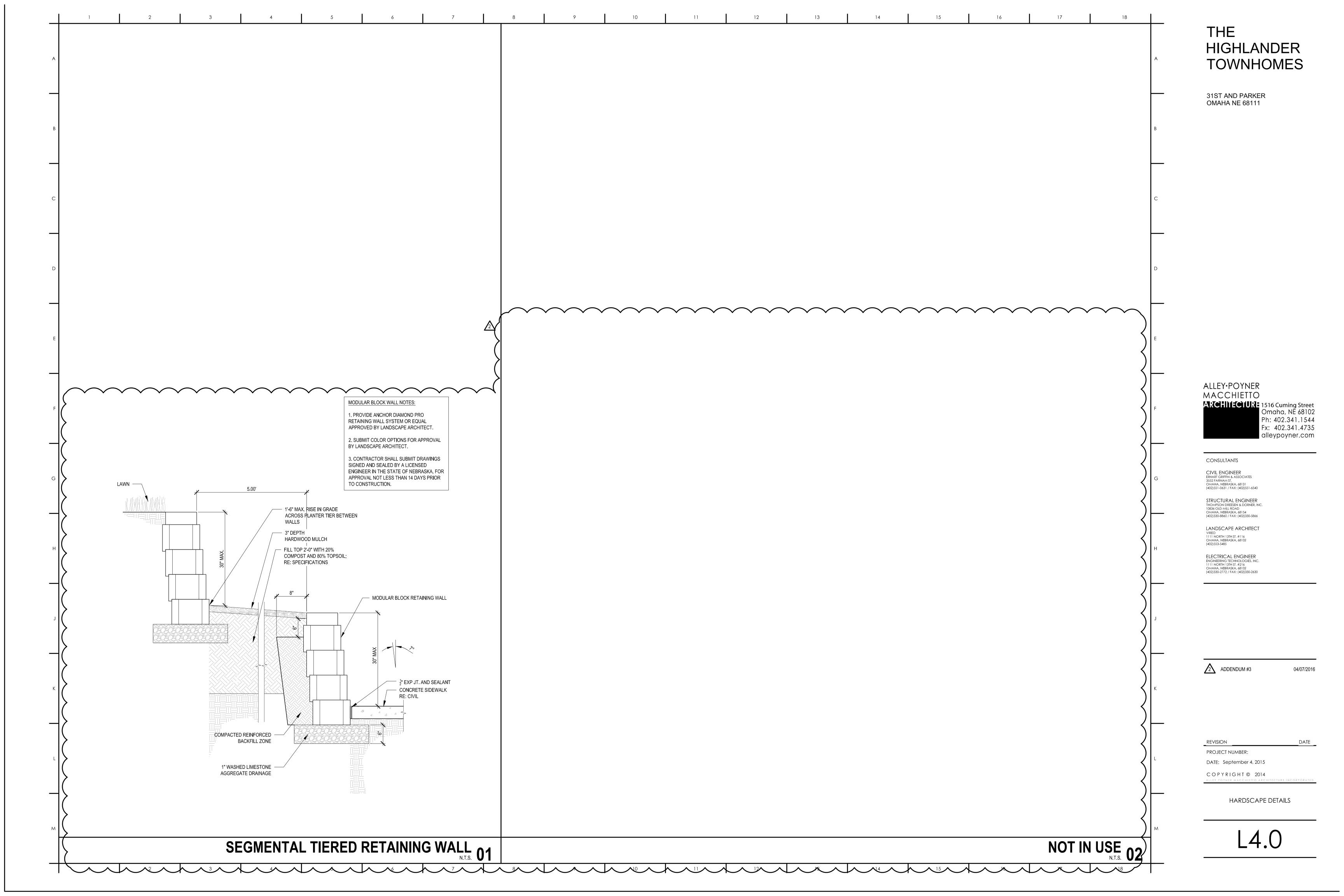
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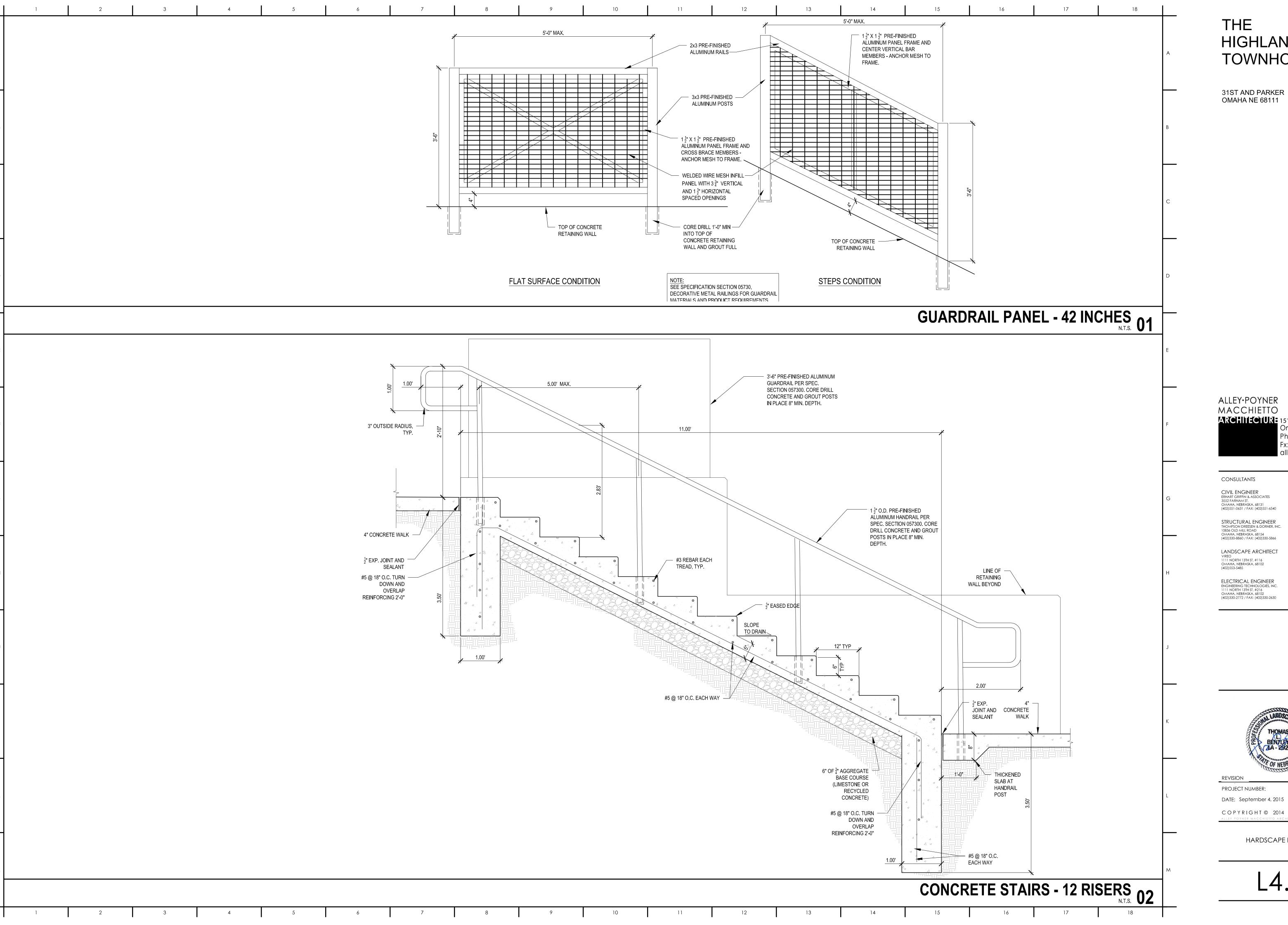
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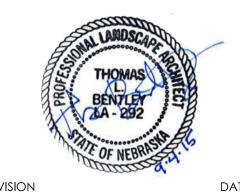
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BUILDING B (SOUTH) LANDSCAPE PLAN

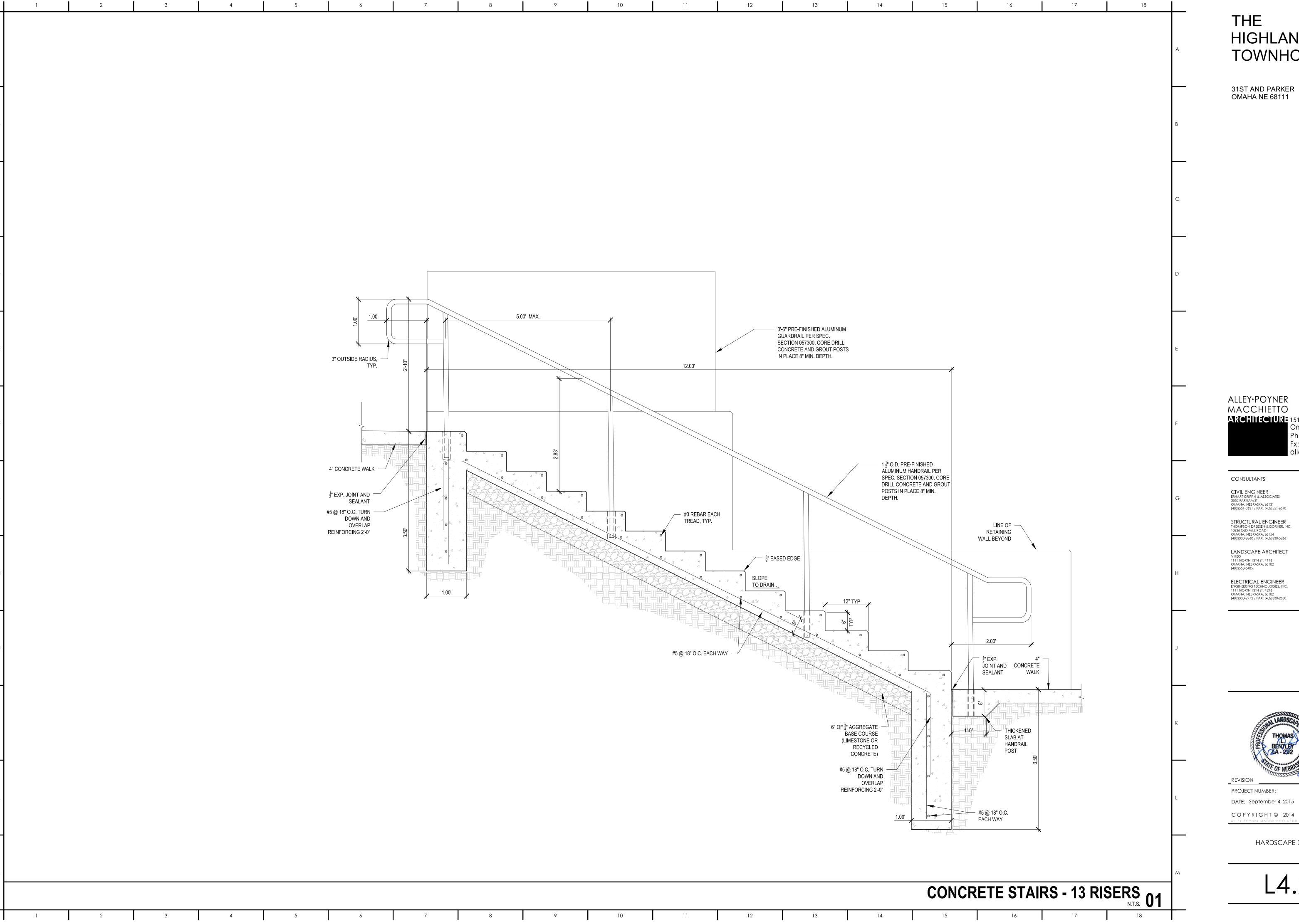




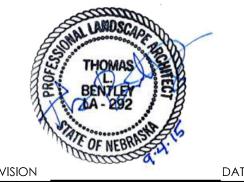
ARCHITECTURE 1516 Cuming Street Omaha, NE 68102 Ph: 402.341.1544 Fx: 402.341.4735 alleypoyner.com



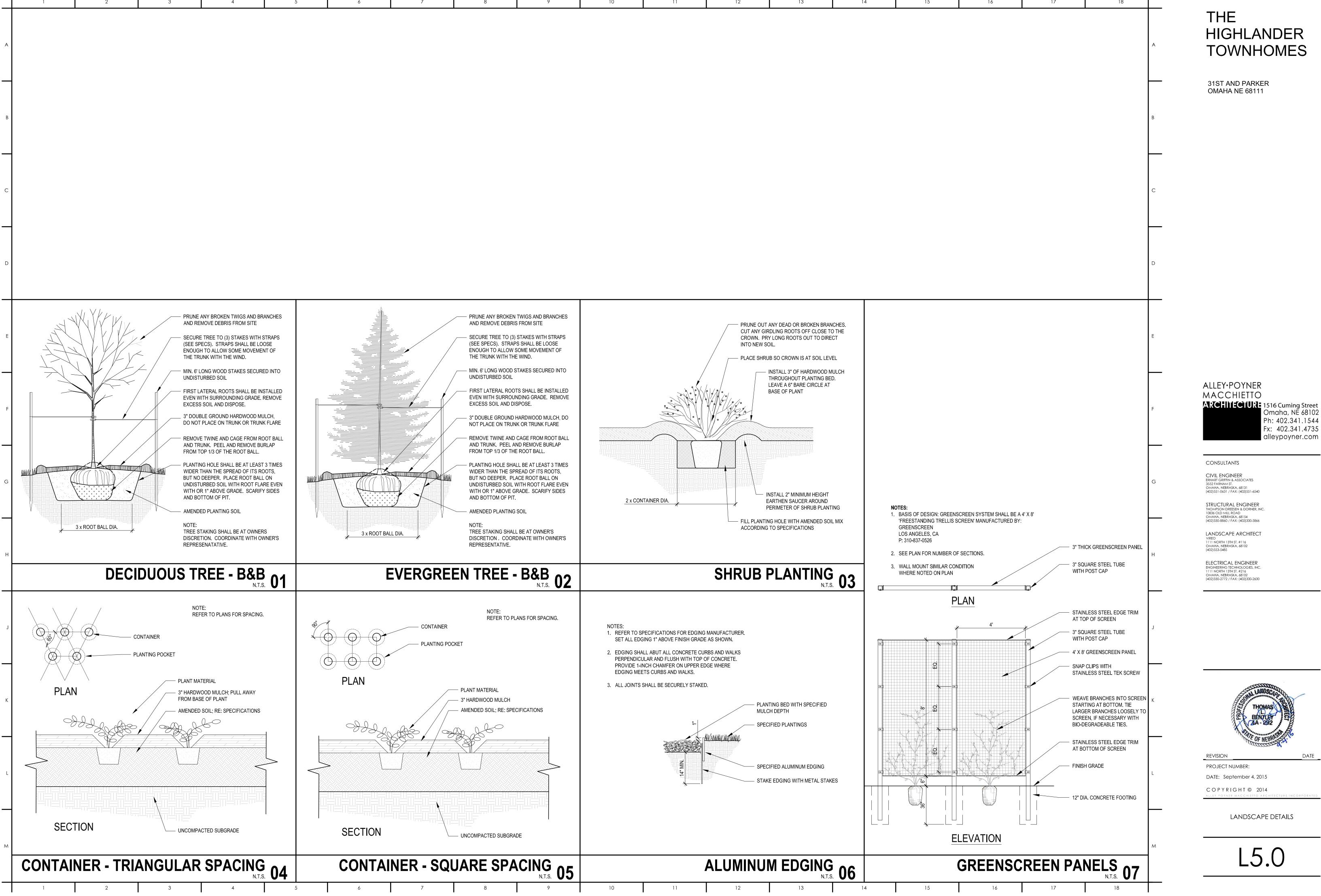
HARDSCAPE DETAILS



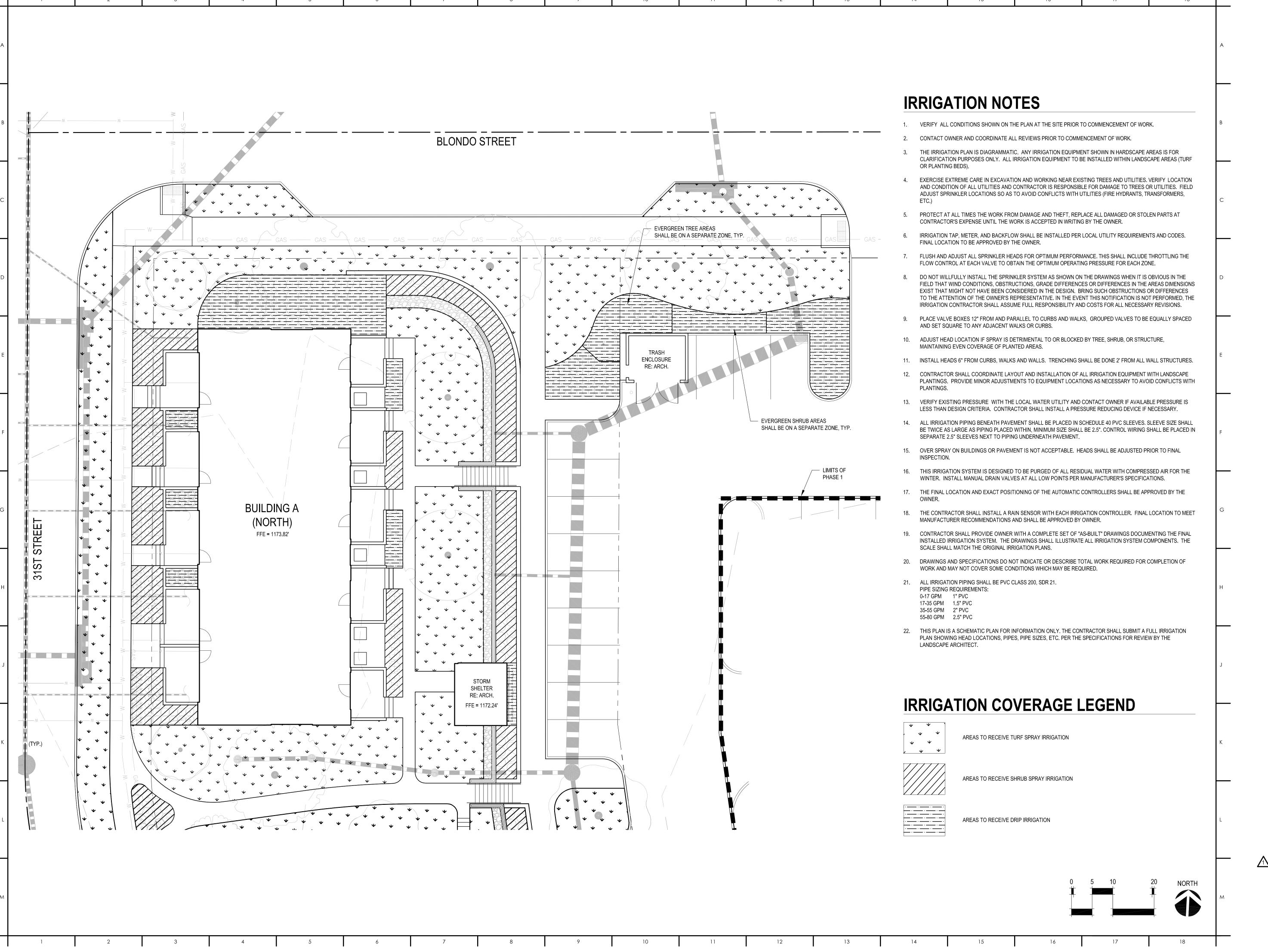
ARCHIIECIUR 1516 Cuming Street Omaha, NE 68102 Ph: 402.341.1544 Fx: 402.341.4735 alleypoyner.com



HARDSCAPE DETAILS







31ST AND PARKER OMAHA NE 68111

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ADDENDUM #1

JM #1

09/24/2015

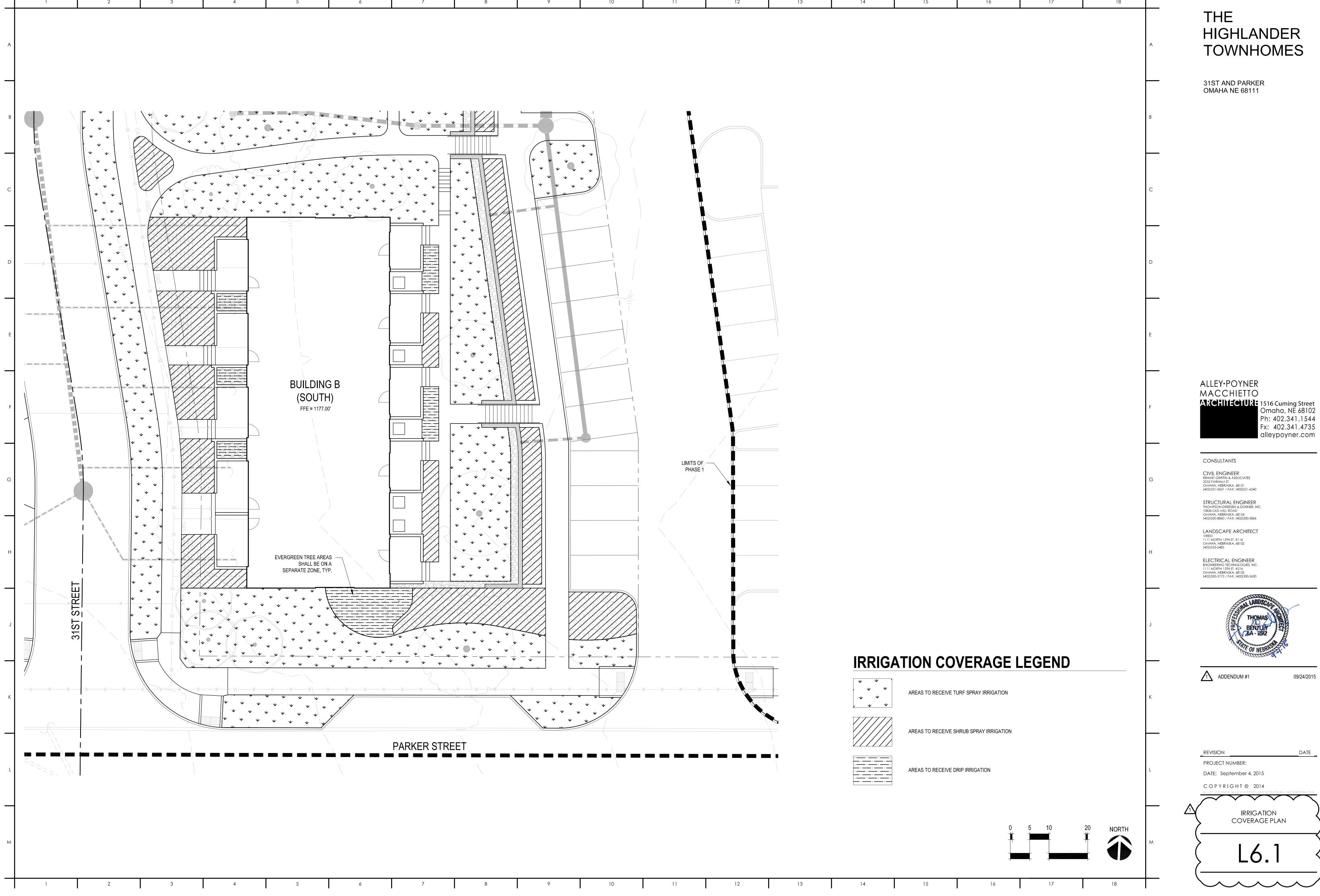
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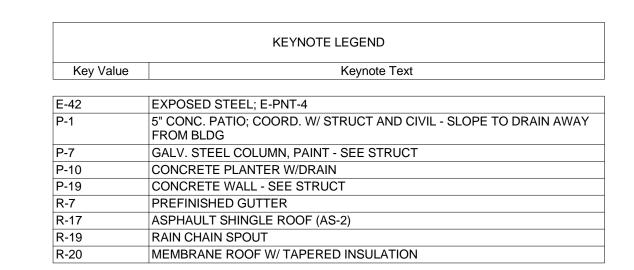
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IRRIGATION COVERAGE PLAN

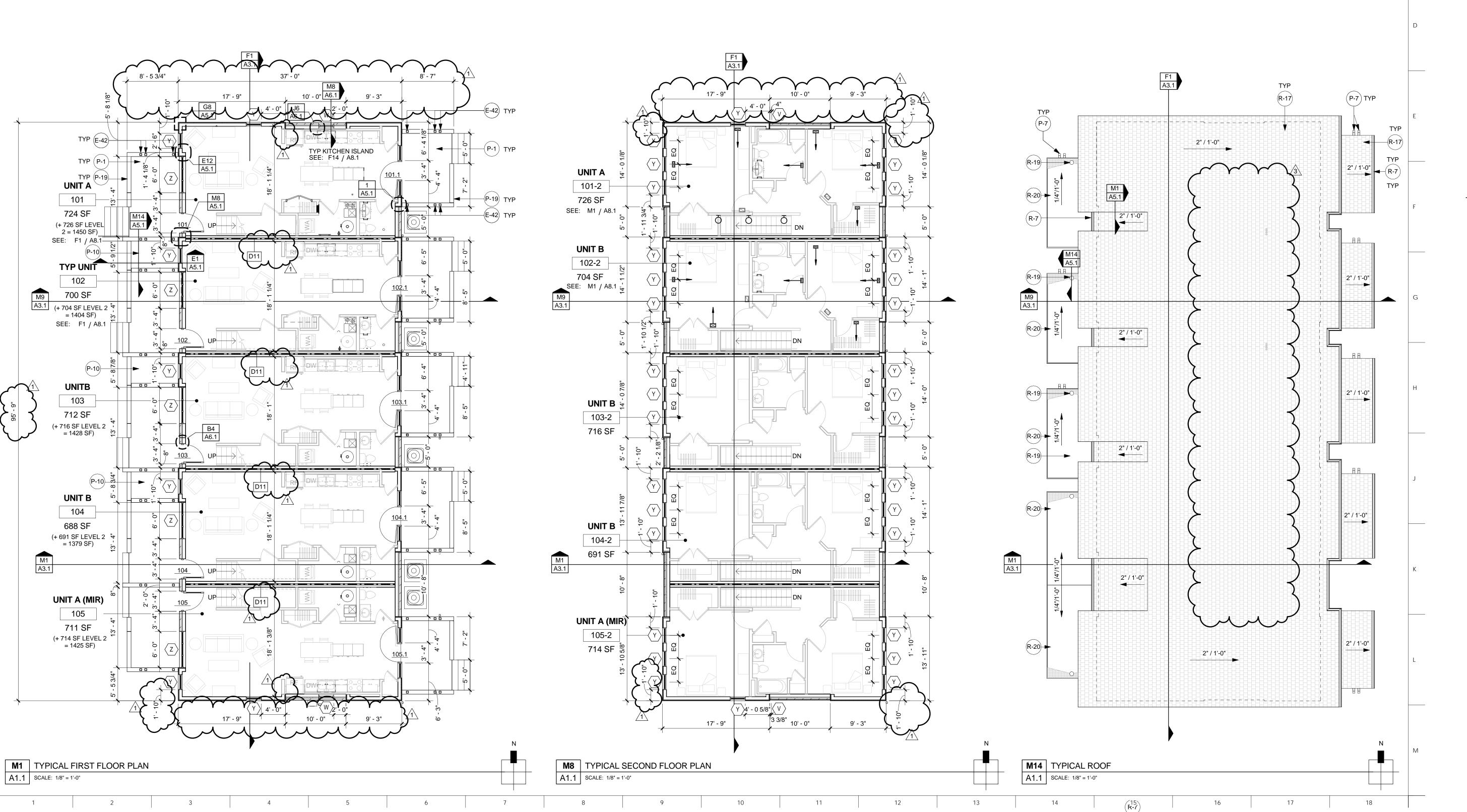
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ALLEY POYNER MACCHIETTO

ARCHITECTURE 1516 Cuming Street Omaha, NE 68102

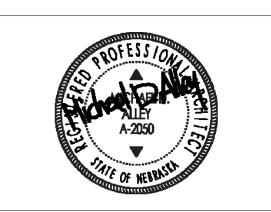
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1 ADDM 1 3 ADDM 3

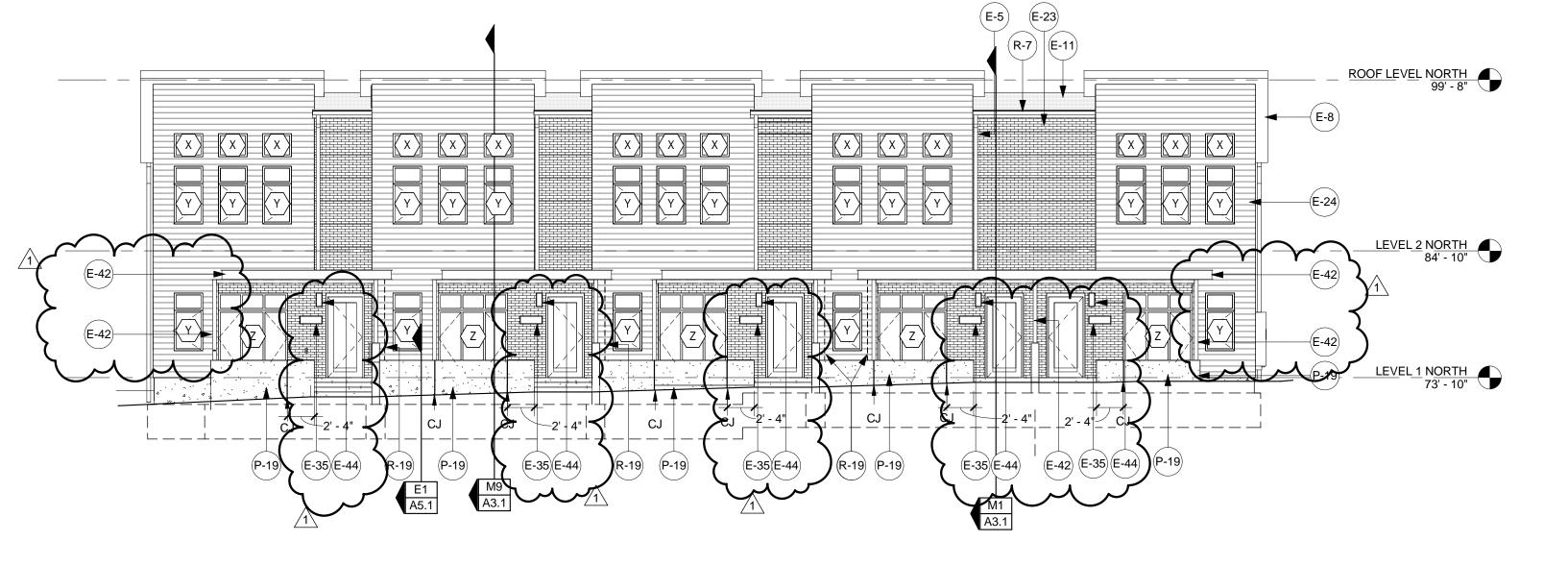
DATE REVISION PROJECT NUMBER: 15051-2

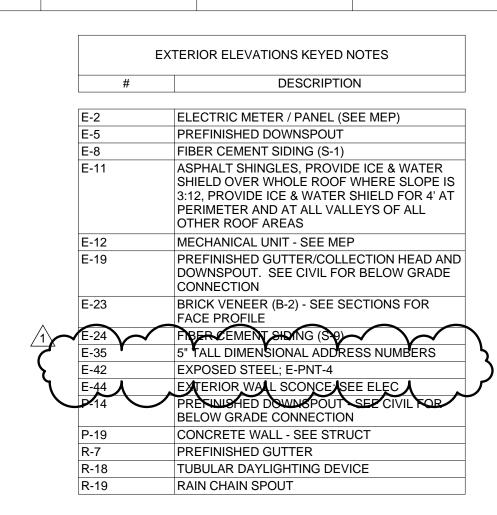
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FLOOR PLANS TYPICAL

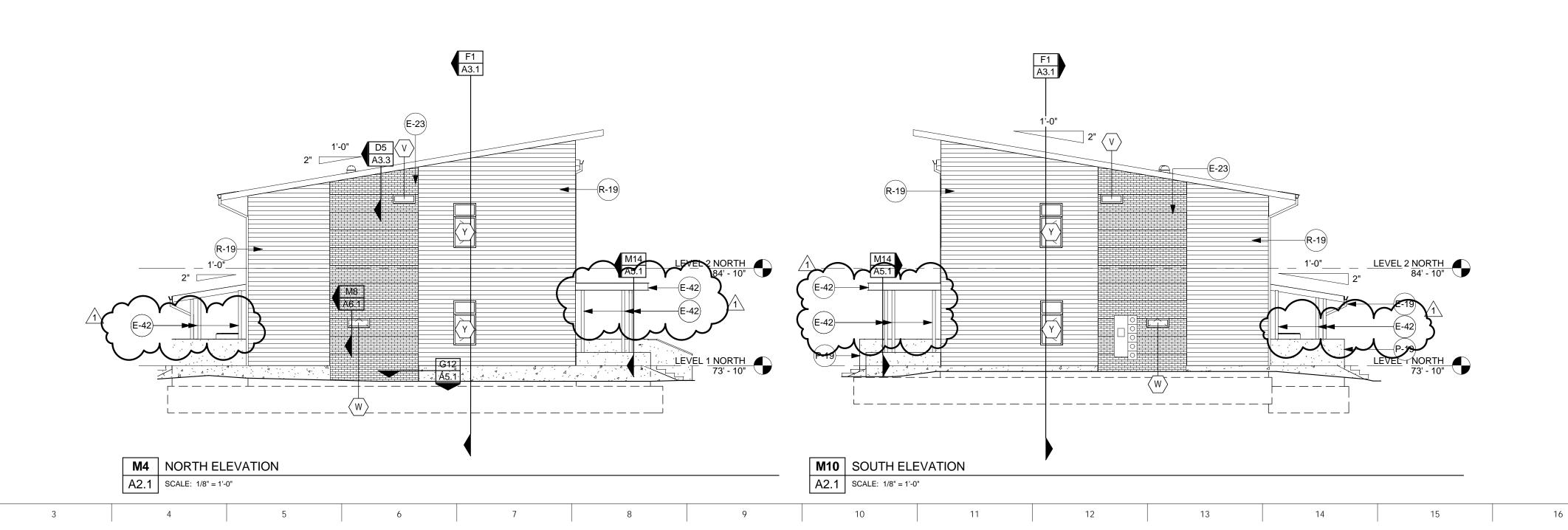




D4 WEST ELEVATION A2.1 | SCALE: 1/8" = 1'-0"



H4 EAST ELEVATION A2.1 SCALE: 1/8" = 1'-0"



THE **HIGHLANDER TOWNHOMES** 30TH AND PATRICK



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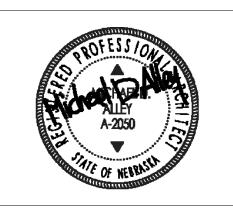
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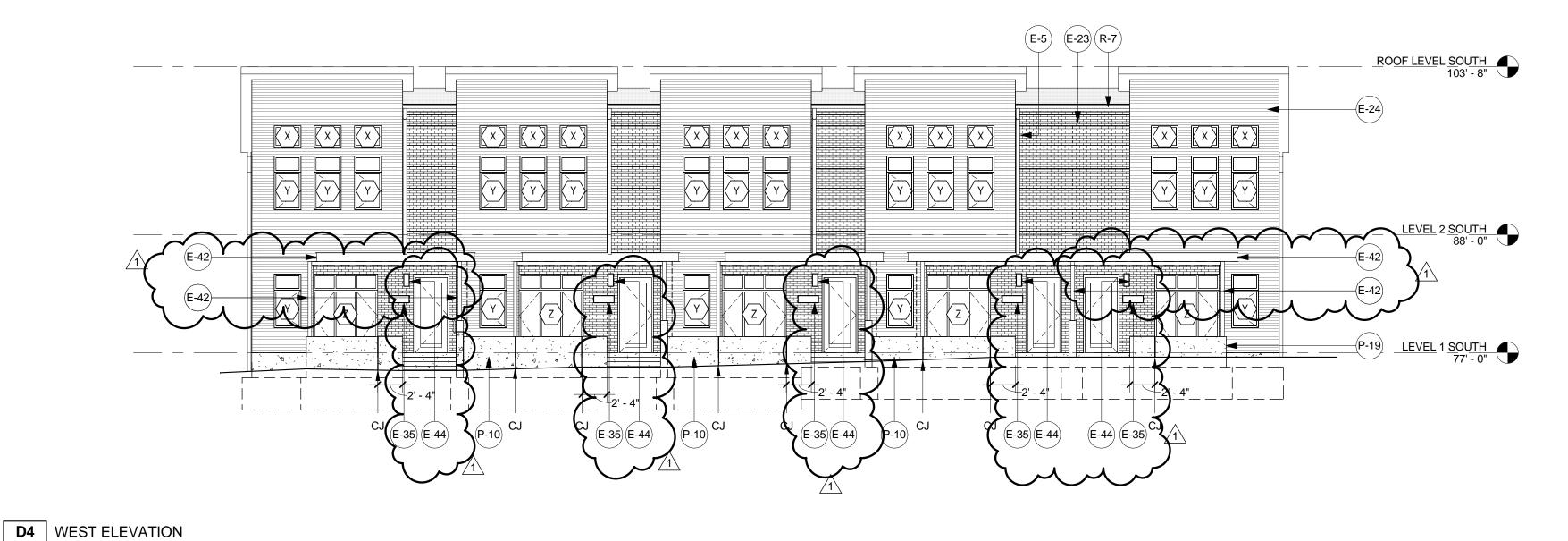
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DATE: September 4, 2015

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EXTERIOR ELEVATIONS - BUILDING A

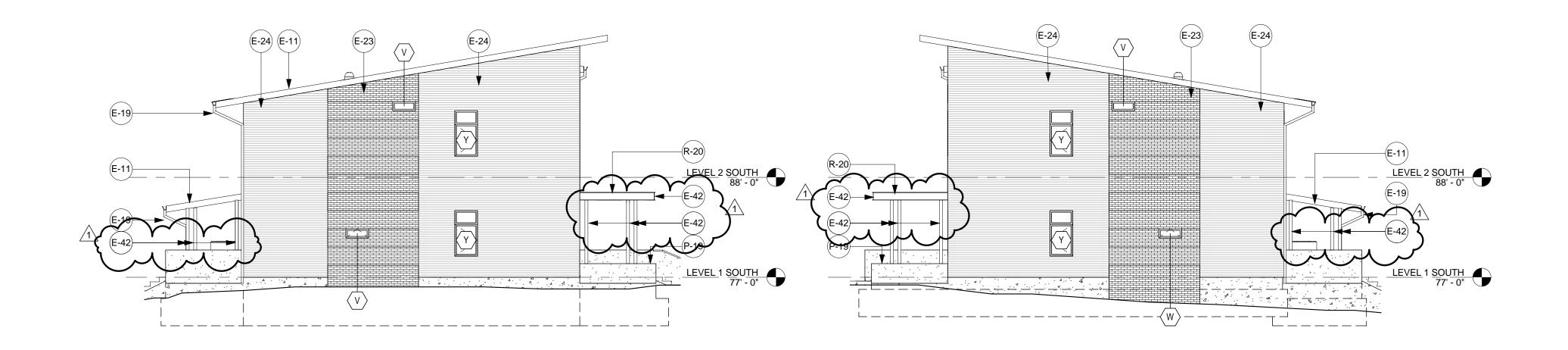


EXTERIOR ELEVATIONS KEYED NOTES DESCRIPTION PREFINISHED DOWNSPOUT ASPHALT SHINGLES, PROVIDE ICE & WATER SHIELD OVER WHOLE ROOF WHERE SLOPE IS 3:12, PROVIDE ICE & WATER SHIELD FOR 4' AT PERIMETER AND AT ALL VALLEYS OF ALL OTHER ROOF AREAS MECHANICAL UNIT - SEE MEP PREFINISHED GUTTER/COLLECTION HEAD AND DOWNSPOUT. SEE CIVIL FOR BELOW GRADE CONNECTION BRICK VENEER (B-2) - SEE SECTIONS FOR FACE PROFILE FIBER CEMENT SIDING (S-9) 5" TALL DIMENSIONAL ADDRESS NUMBERS EXPOSED STEEL; E-PNT-4 EXTERIOR WALL SCONCE; SEE ELEC GALV. STEEL COLUMN, PAINT - SEE STRUCT CONCRETE PLANTER W/DRAIN CONCRETE WALL - SEE STRUCT PREFINISHED GUTTER MEMBRANE ROOF W/ TAPERED INSULATION

A2.2 | SCALE: 1/8" = 1'-0"



H4 EAST ELEVATION A2.2 SCALE: 1/8" = 1'-0"



M4 NORTH ELEVATION A2.2 | SCALE: 1/8" = 1'-0"

M10 SOUTH ELEVATION A2.2 | SCALE: 1/8" = 1'-0"

THE HIGHLANDER **TOWNHOMES** 30TH AND PATRICK OMAHA NE 68111



ALLEY POYNER MACCHIETTO ARCHITECTURE 1516 Cuming Street Omaha, NE 68102

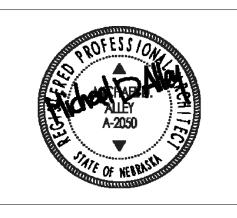
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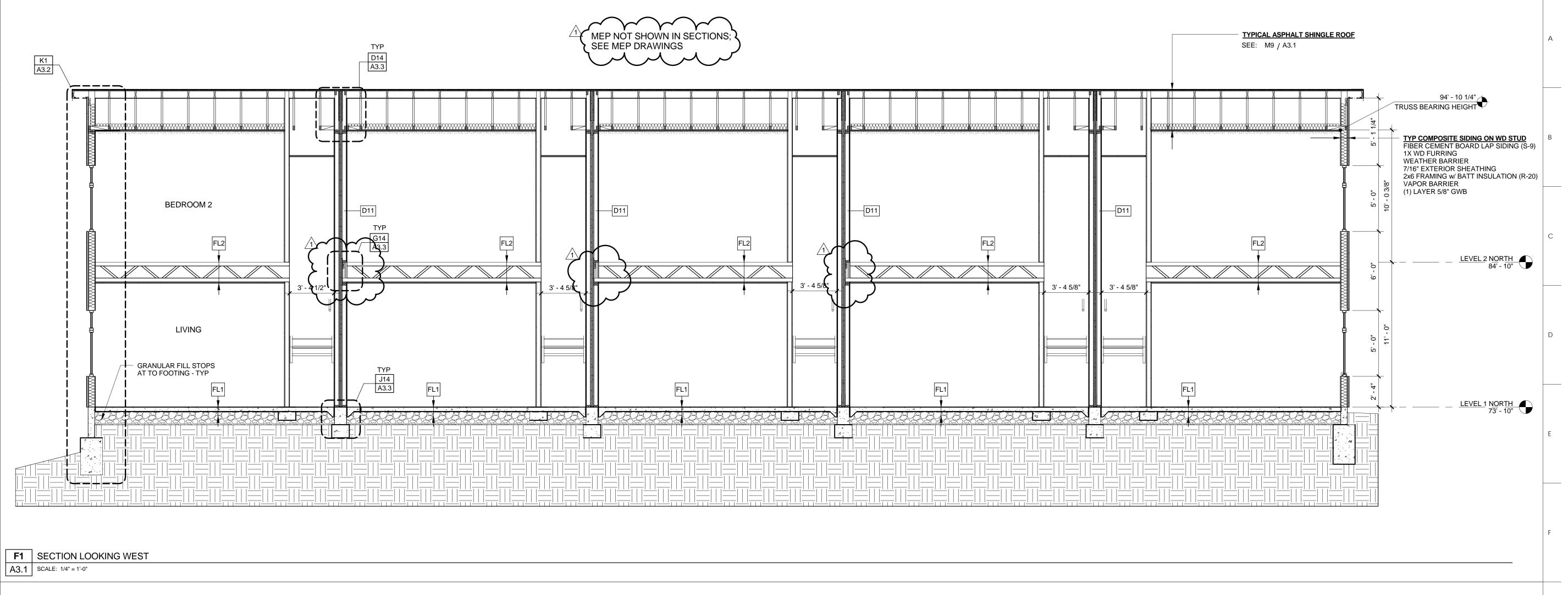
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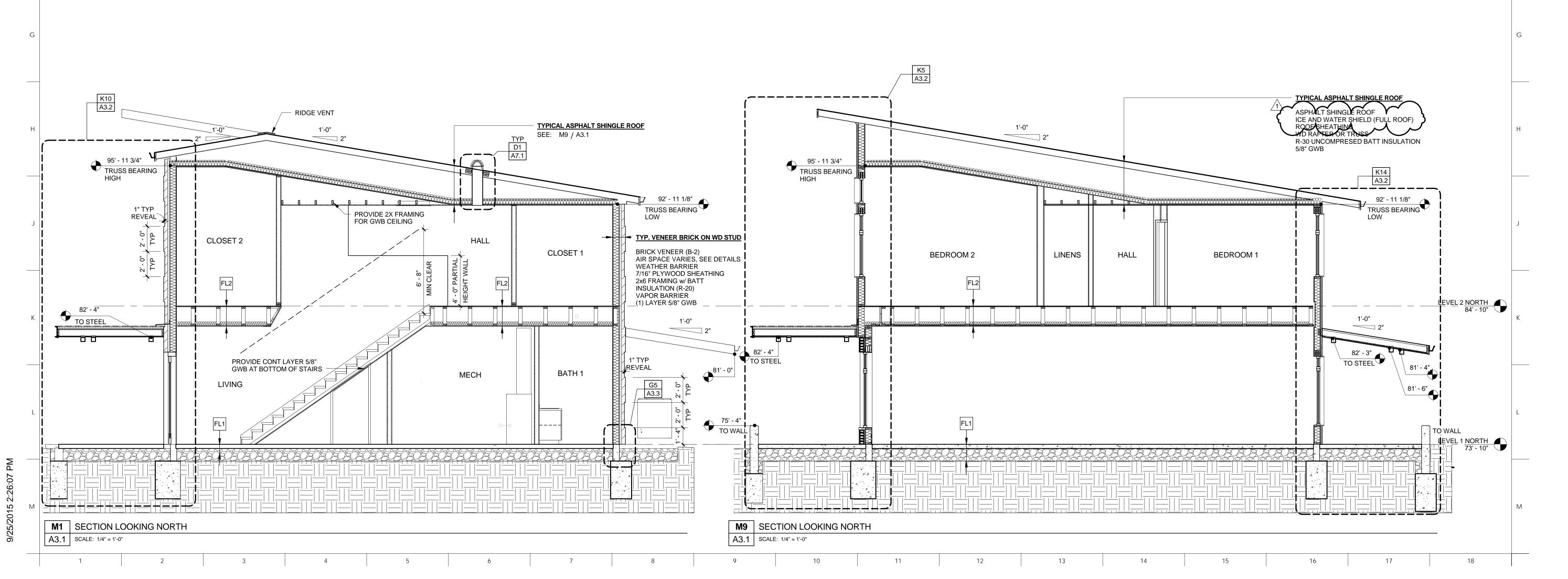
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EXTERIOR ELEVATIONS - BUILDING B







ALLEY-POYNER MACCHIETTO

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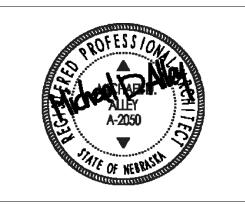
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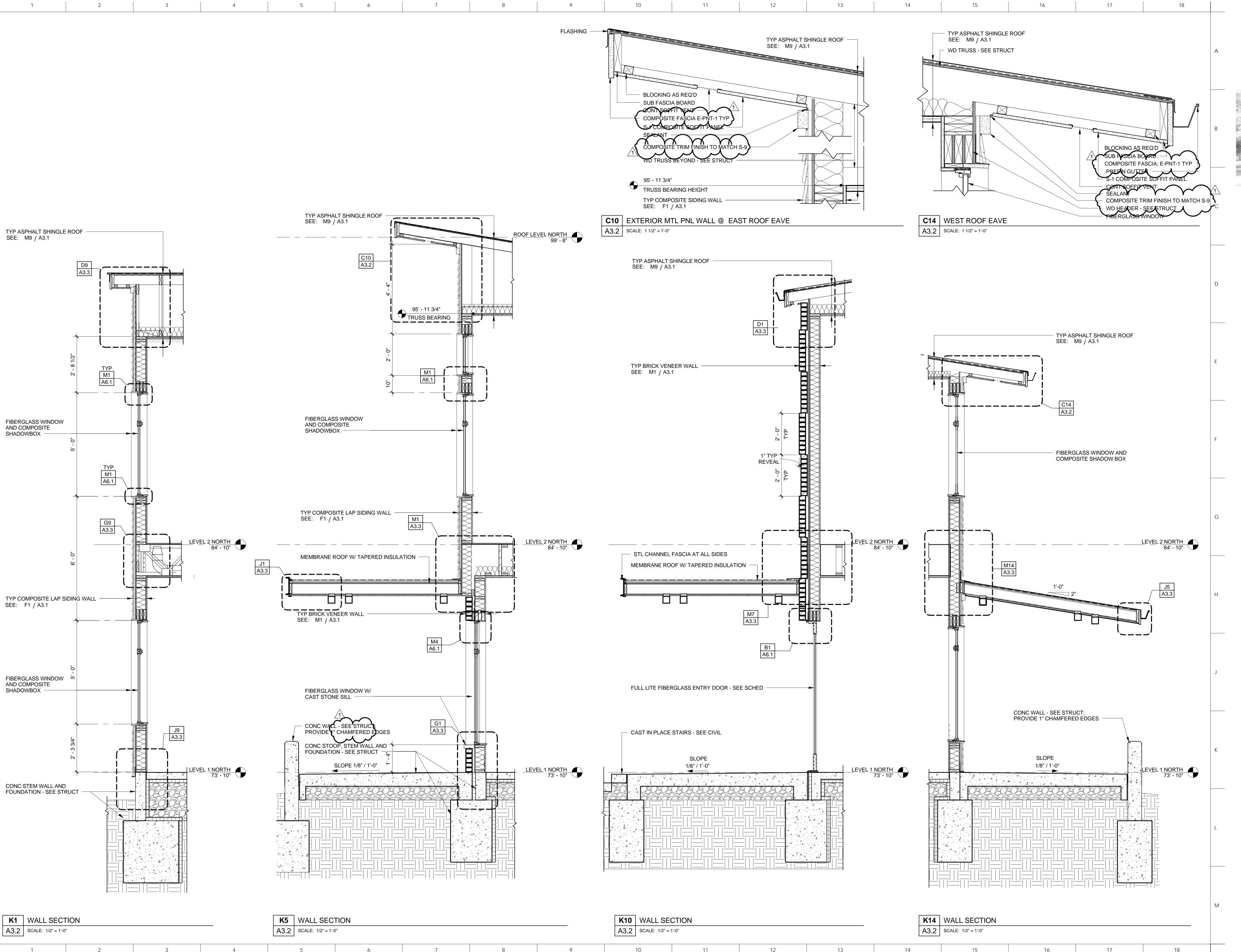


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BUILDING SECTIONS





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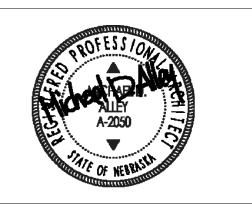
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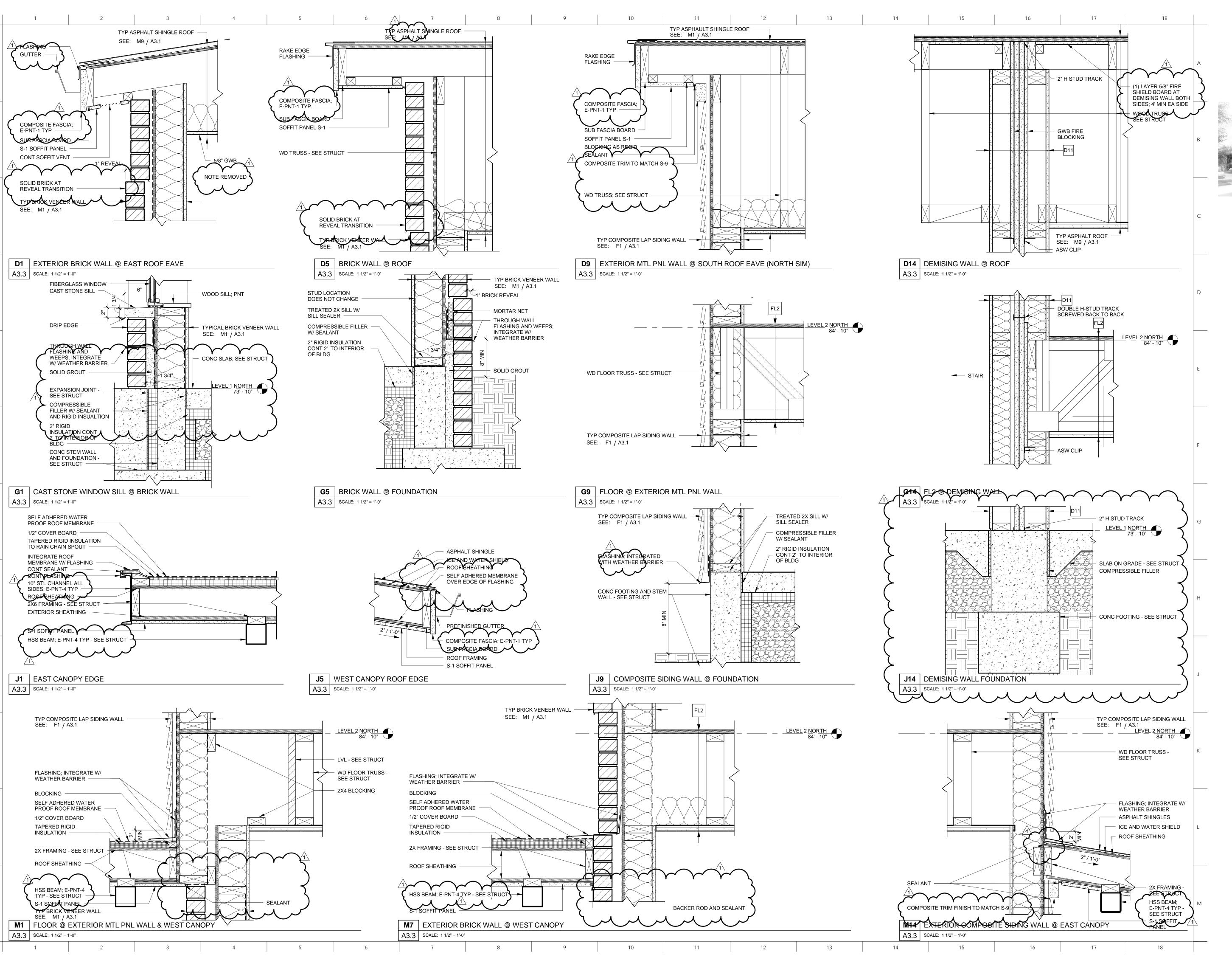


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WALL SECTIONS





ALLEY-POYNER MACCHIETTO



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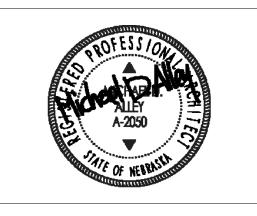
CIVIL ENGINEER ERHART GRIFFIN & ASSOCIATES 3552 FARNAM ST. OMAHA, NEBRASKA, 68131 (402)551-0631 / FAX: (402)551-6540

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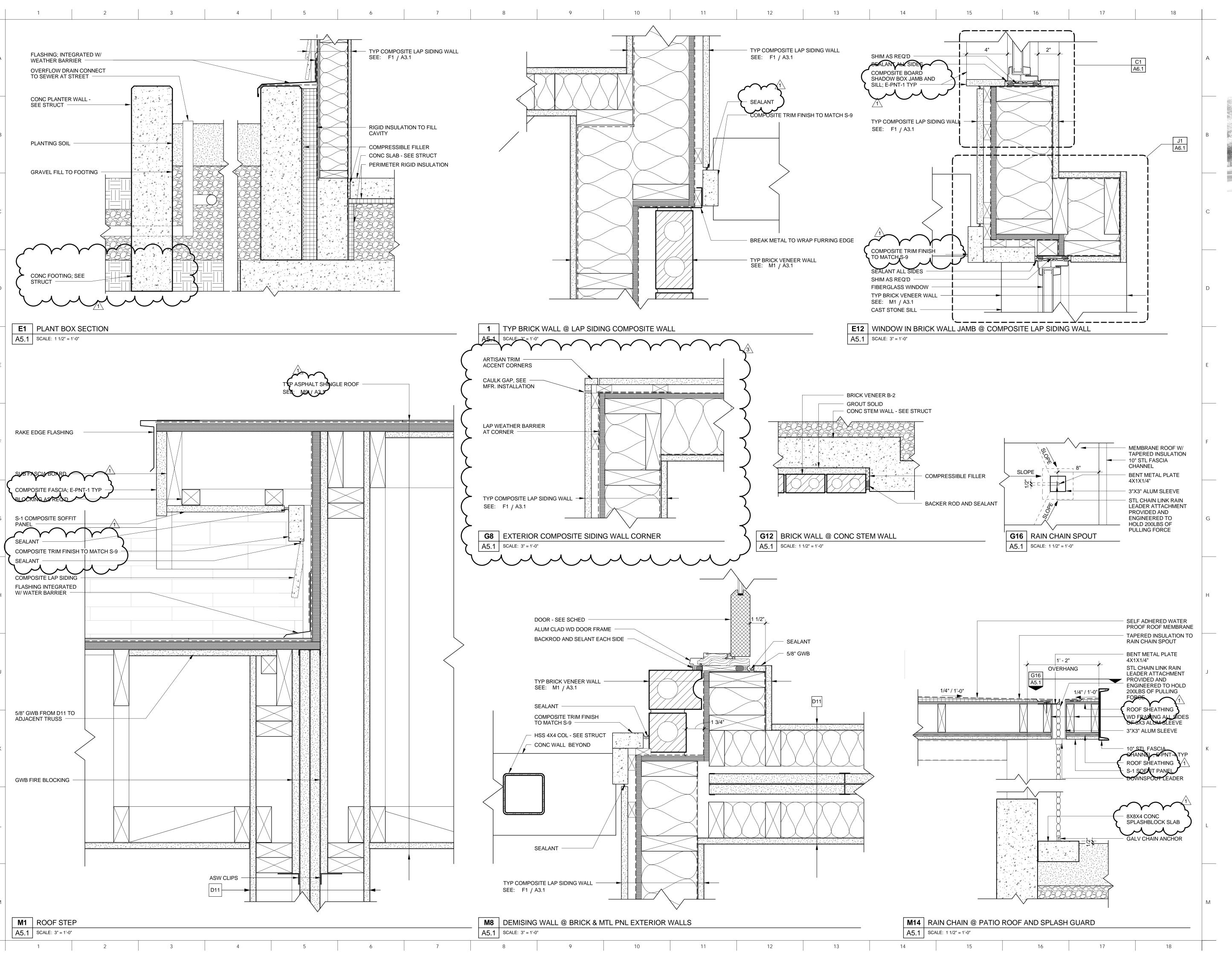
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WALL SECTION DETAILS





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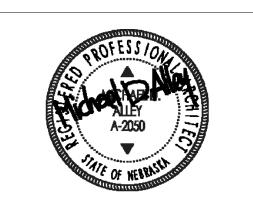
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REVISION

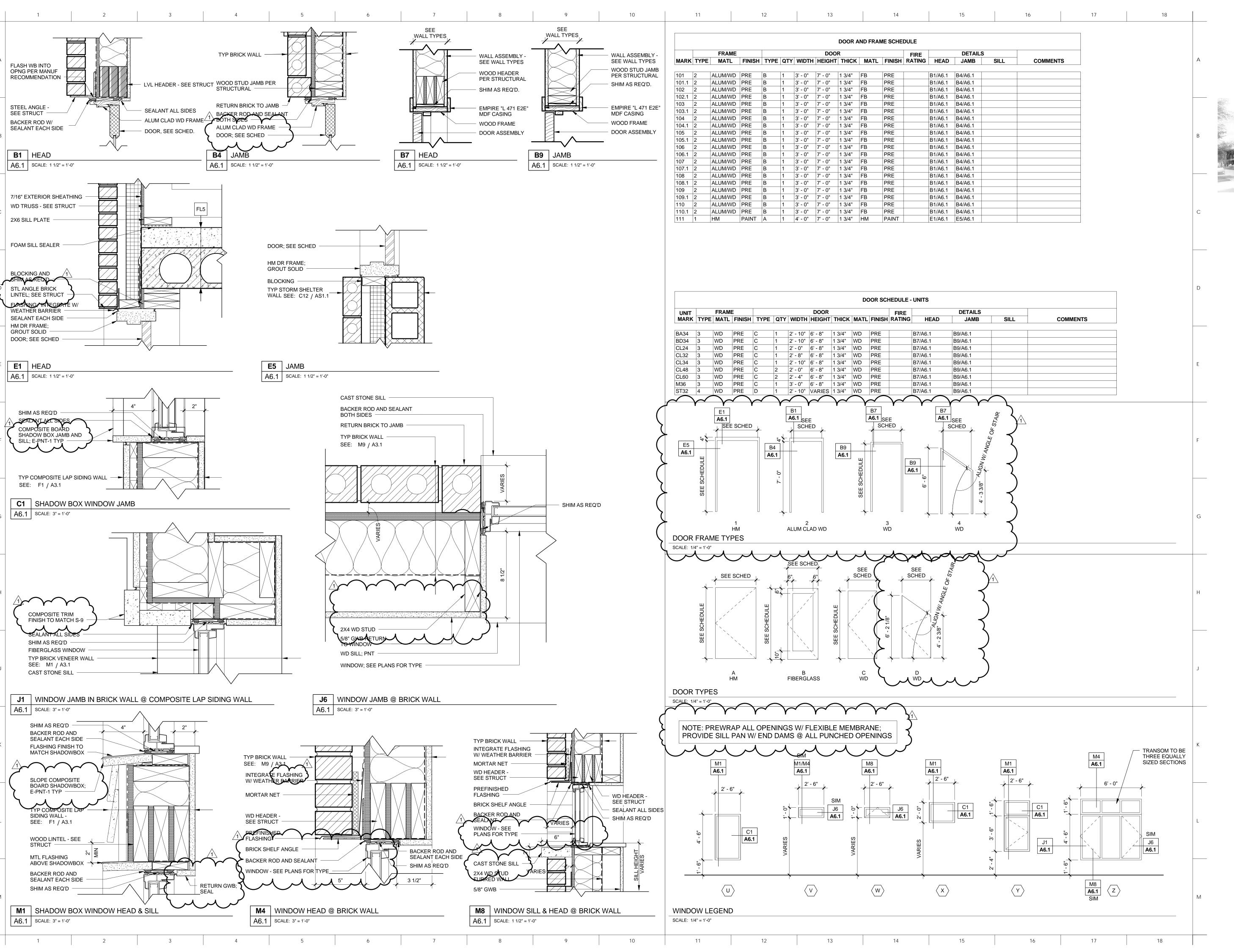
Date 1 04/04/2016

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GENERAL BUILDING DETAILS





ALLEY-POYNER

MACCHIETTO **ARCHITECTURE** 1516 Cuming Street Omaha, NĚ 68102

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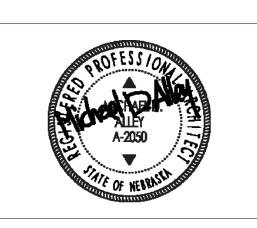
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> DOOR SCHEDULE & FRAME **ELEVATIONS**

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KEYNOTE LEGEND Keynote Text Key Value FIBER CEMENT SIDING (S-1)

THE HIGHLANDER TOWNHOMES

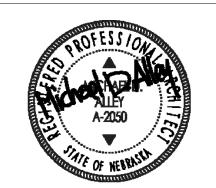


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STRUCTURAL ENGINEER

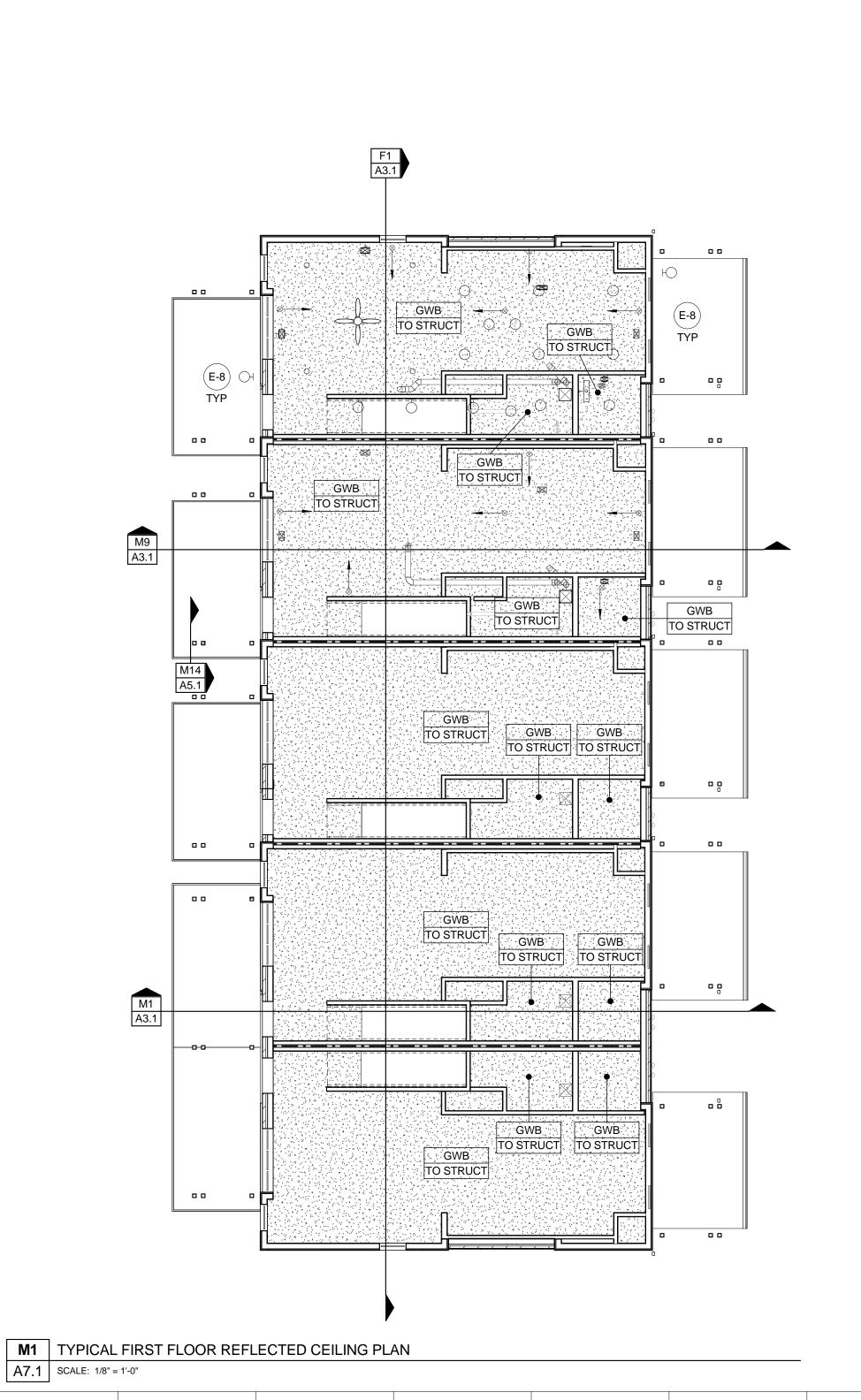
(402)330-8860 / FAX: (402)330-5866

(402)330-2772 / FAX: (402)330-2630 ELECTRICAL ENGINEER

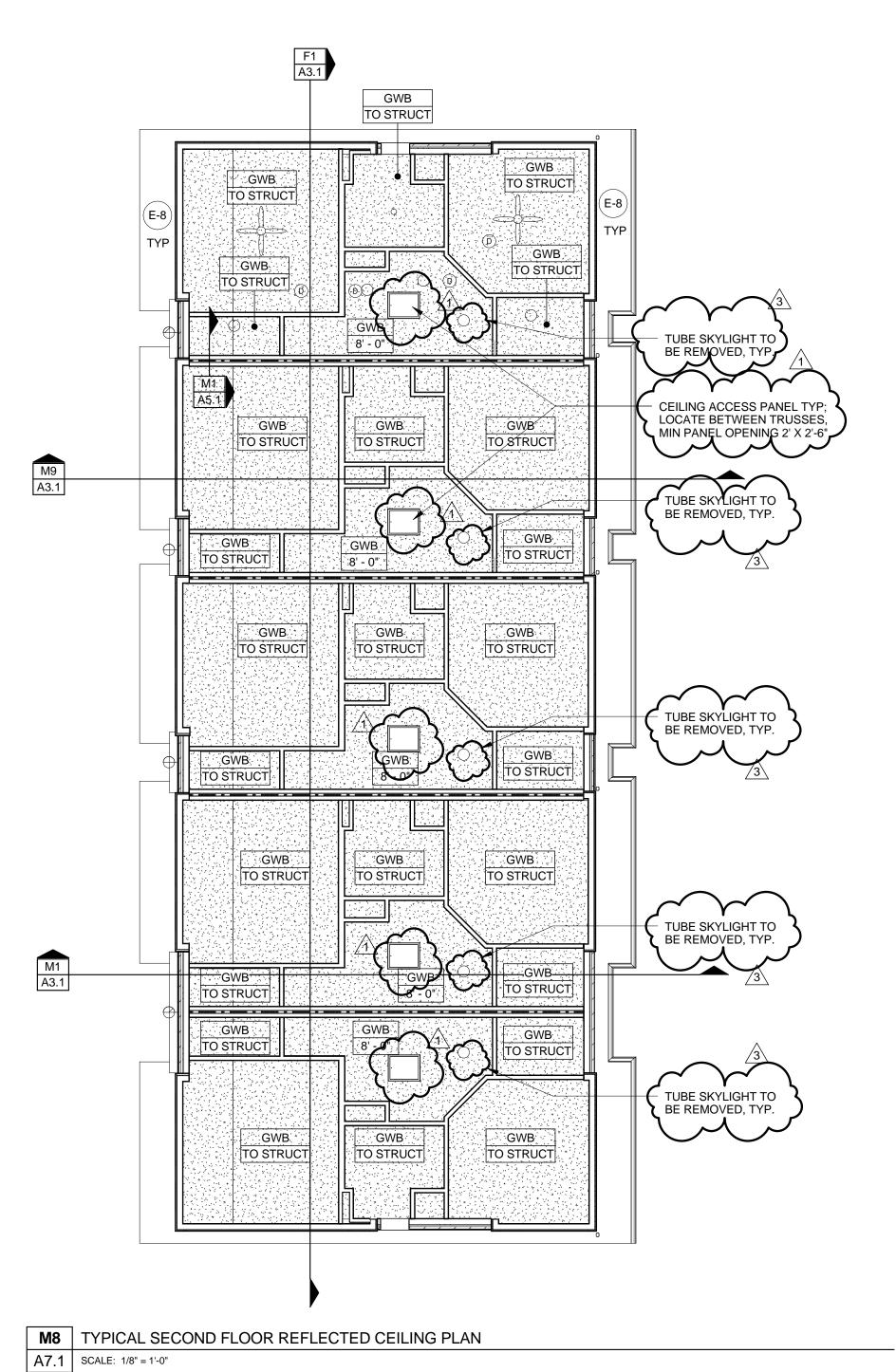


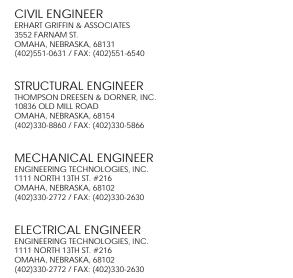
REVISION PROJECT NUMBER: 15051-2

REFLECTED CEILING PLANS TYPICAL



DETAIL REMOVED FROM SHEET PER ADDENDUM 3

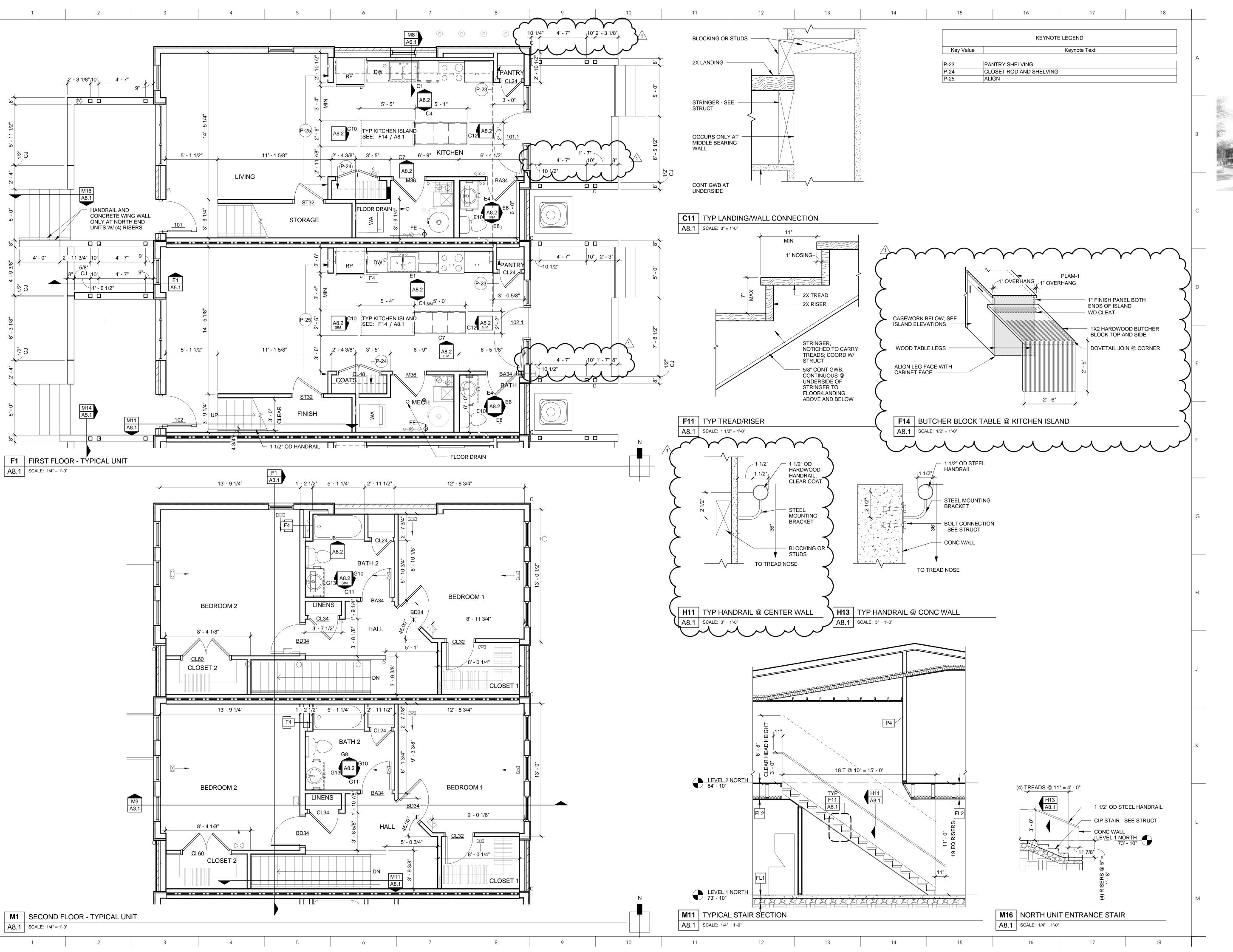




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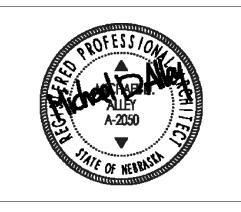
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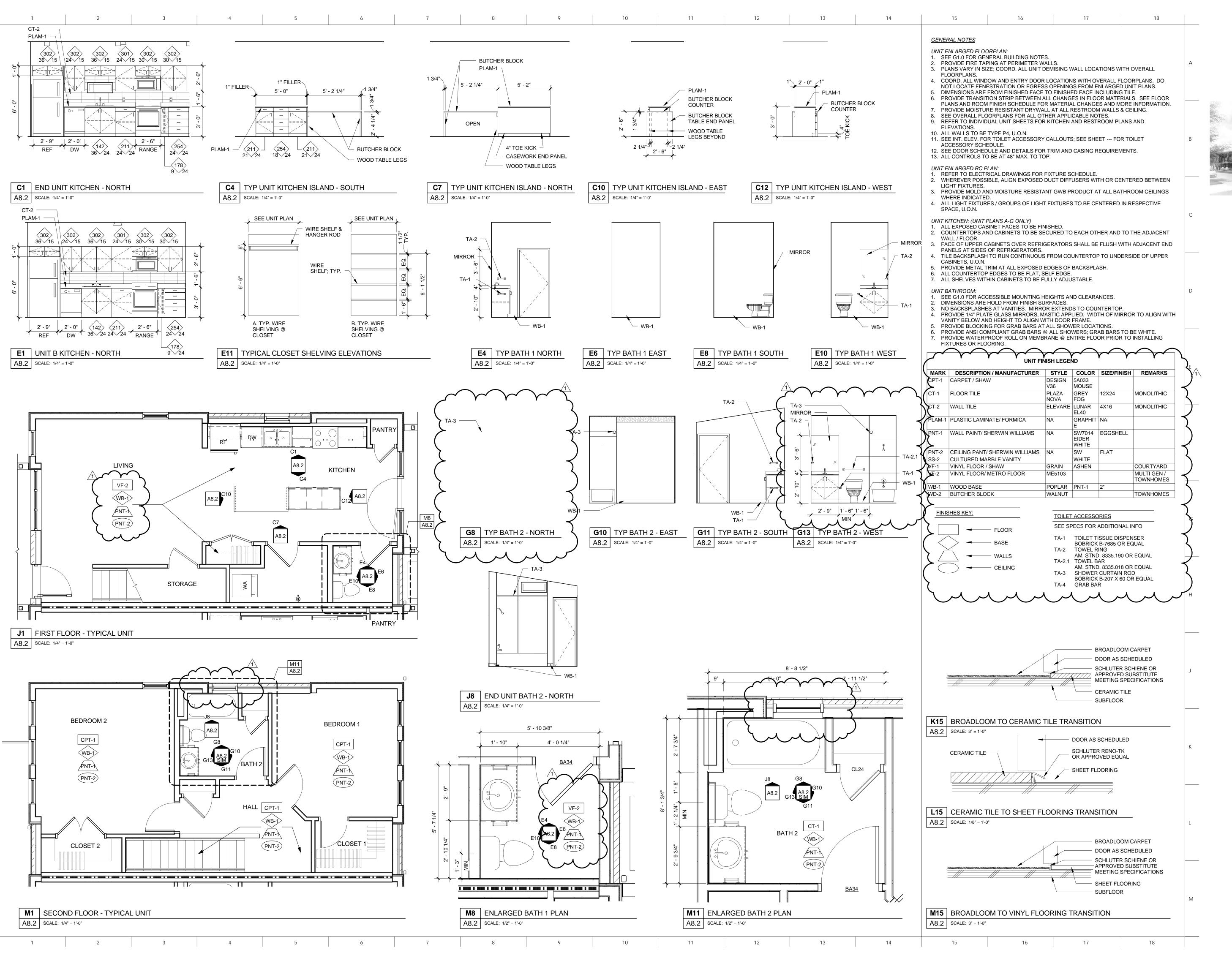


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ENLARGED TYPICAL UNIT PLAN



THE **HIGHLANDER TOWNHOMES**

30TH AND PATRICK **OMAHA NE 68111**



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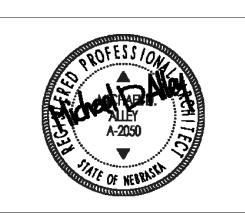
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1 ADDM 1 Date 1

DATE REVISION PROJECT NUMBER: 15051-2

DATE: September 4, 2015

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UNIT - KITCHEN AND BATHROOM **ELEVATIONS**

2. STRUCTURAL DESIGN LOADS:

FLOOR LIVE LOADS: 40 PSF All Floors (Residential Units):

ROOF LIVE LOADS: 30 PSF Minimum Flat and Sloped Roofs: SNOW:

25 PSF Ground Snow Load: Flat-Roof Snow Load (Pf): 20 PSF 5 PSF Rain on snow surcharge * Sliding, Drifting, & Calculated in accordance w/ ASCE 7-05 Sec. 7.7 Unbalanced Snow Loads: Snow Exposure Factor: C_c = 1.0 $C_{\tau} = 1.1$ Thermal Factor:

Occupancy Category: $II (I_s = 1.0)$ Note: Buildings have been designed for snow loads per ASCE 7-05.

90 MPH Basic Wind Speed: Wind Exposure Category $II (I_w = 1.0)$ Occupancy Category:

SEISMIC: Spectral Response Accelerations $S_s = 0.125g$; $S^1 = 0.041g$ Site Class: II (I = 1.0) Occupancy Category: Seismic Design Category: Note: Buildings have been designed for seismic loads per ASCE 7-05.

Note: Buildings have been designed for wind loads per ASCE 7-05.

3. FOUNDATION DESIGN CRITERIA:

Foundation design based on the Geotechnical Exploration Report dated June 15, 2015 [Report No. 15100.01] and the Preliminary Geotechnical Exploration Report dated May 19, 2015 [Report No. 15100.00] completed by Thiele Geotech Inc., Omaha, NE.

± 0.18

- Allowable Soil Bearing Pressure: Allowable Soil Bearing Pressure:

Internal Pressure Coefficient

2,500 PSF with Overexcavation 1,500 PSF without Overexcavation

1. Footing excavations shall be inspected and approved by the Geotechnical Engineer prior to placing concrete.

4. EXCAVATION AND BACKFILL:

- A. See Civil Drawings, Geotechnical Engineering Report, and Specification Sections 31 2100 "Building Earthwork" for Site Preparation and earthwork requirements.
- B. All earthwork operations shall be completed in accordance with the Geotechnical Exploration Report completed by Thiele Geotech Inc., Omaha, NE [Ref. Project No. 15100], or has directed by the Geotechnical Engineer in the field.
- C. Contractor shall confirm that all site preparation and earthwork activities have been completed and have been Approved by the Geotechnical Engineer prior to starting excavation for foundation construction.
- D. Per the Geotechnical Report, the building pad shall be overexcavated a minimum of 3-foot below bottom of the building footings. Structural Fill compacted and tested per the recommendations given in the Geotechnical Report shall be placed to bring the building pad to finish grade. Note: Overexcavation is not required at the Storm Shelter.
- Protect all footing excavations from damage due to water, excessive drying, and freezing temperatures. Footing excavations shall be tested, inspected, and approved by the Geotechnical Engineer prior to placing concrete.
- F. Prior to placing a granular leveling course, the upper 6" of the soil subgrade shall be scarified, moisture-conditioned if necessary, and compacted to the requirements of the Specifications.

(1). A 4" max. compacted granular leveling course may be placed below the slab as a construction convenience and shall be compacted by vibration. Granular material shall Approved by the Geotechnical Engineer.

5. MATERIALS:

Concrete:					
Class	Locations	28-Day Strength	Max. Slump	Max. Aggregate	Air Entrainment
Type I	Foundation Walls; Structural Stoops	4,000 PSI	5"	1"	5%-7%
Type II	Footings; Interior Slabs-on-Grade	3,000 PSI	5"	1"	N.A.

ASTM A615 Grade 60, deformed.

ASTM A185, flat sheet type.

Other Materials:

Reinforcing Bars:

Welded Wire Fabric:

Structural Steel Beams: ASTM A992, Grade 50 Angles, Channels, Plates, and Bars: ASTM A36 Steel Tubes: ASTM A500 Grade B ASTM A53, Type E or S, Grade B Steel Pipe: ASTM A108; Grade 1015. Headed Studs: ASTM F1554 [Gr. 36], Headed Type, U.N.O. Anchor Bolts: Non-High Strength Bolts: High Strength Bolts: ASTM A325 bearing type connections, U.N.O. Hilti "HY150-MAX", Simpson "SET" adhesives. Adhesive Anchors: Hilti "Kwik Bolt TZ" or Simpson "Strong-Bolt-2" Expansion Anchors:

Welding Electrodes: Synthetic Fibers for slab-on-grade: Fibrillated polypropylene fibers engineered and designed for use in concrete, complying with ASTM C1116, Type III

6. GENERAL NOTES:

- A. All work shall comply with requirements of the 2006 International Residential Code including the, with recommendations of manufacturers, and with recognized workmanship and material standards.
- B. Comply with all applicable codes, ordinances, and regulations including those promulgated and enforced by OSHA. The structural design represented by the drawings and specifications is based on interaction of the various components, materials, and systems shown or required by all of the drawings and specifications. The contractor shall determine the need for and provide all required bracing or other means to insure stability and safety until all work required by the contract documents is complete. When and where necessary to comply with these requirements, the contractor shall provide appropriate additional temporary or permanent connections and/or members or, in the alternative, shall make appropriate modifications of specified connections and/or members. Where additions to or modifications of specified requirements are proposed, they shall be submitted to the Architect for review and approval. Such review and approval will be only for compliance with the structural and architectural design intent for the work. The adequacy for construction phase stability and safety is the responsibility of the contractor.
- C. Adapt requirements of details, sections, plans, and notes at all locations of which conditions are similar.
- D. The structural drawings are to be read in view of all other drawings and all specifications. Coordinate all work shown with all other work.
- E. Shop drawings for any part of the work shall show the interface with and provisions for related other work including such adaptations of requirements given as may be necessary.
- F. Contractor shall cross check dimensions and elevations between architectural, mechanical, and structural plans and notify Architect of any variance before contractor begins work.

7. CAST-IN-PLACE CONCRETE WORK, GENERAL

A. All concrete work shall comply with ACI 301

B. Requirements for cast-in-place concrete work are given on the drawings.

C. Reinforcing Continuity:

All reinforcing shall be continuous unless noted otherwise. Continuity at corners and intersections shall be achieved using 'L-Shaped' corner bars and contact lap splices per Detail 1/S3.1. Continuity at other locations may be achieved using contact lap splices shown on approved shop drawings. Location of lap splices shall be shown on the shop drawings. Unless noted otherwise, the following lap splices shall be used:

Bar Size: #3 #4 #5 #6 #7 Lap Splice Length: 20" 24" 30" 42" 54"

- D. All reinforcing and embedded items, such as anchor bolts, shall be secured in place prior to placing concrete.
- E. In general, openings in concrete work shall be formed or sleeved. Drilled openings are not permitted, except where specifically noted. Relocate reinforcing to each side of opening. Do not cut or terminate reinforcing.
- FOOTING WORK:
- A. See plans for Footing Schedule. Coordinate footing work with all other work
- B. All footing excavations shall be inspected and approved by the Geotechnical Engineer prior to placing
- C. Pipes and other work which require trenching adjacent to pad footings and parallel to continuous footings shall not be located below lines extending downward from the bottom edges of the footing at a 45-degree angle from the horizontal. Pipes and other work perpendicular to continuous footings may be located beneath the footing. Footing elevations may be lowered if approved on the footing shop drawings.
- SLAB-ON-GRADE WORK:
- A. Coordinate slab-on-grade work with all other work. Provide thickened slabs, depressed slabs, equipment pads, blockouts, etc. as needed.
- B. Saw cut control joints in slab to a depth equal to 1/3 the slab thickness
- C. Slab-on-grade Requirements:

(1) Thickness: 4" minimum

- (2) Control Joints: 10'-0"o.c. maximum each way, unless noted or shown otherwise
- (3) Reinforcing: Synthetic Fiber ['Fibermesh' or equal] designed for use in concrete uniformly dispensed in the concrete mix at the Manufacturer's recommended rate, but not less than 1.5 lbs/CY
- D. Separate slab-on-grade w/ expansion joint material from all columns and walls.
- E. All slabs-on-grade shall have a Vapor Barrier beneath the slab.
- Note: Contractor shall confirm the thickness of the granular material and location of the vapor barrier with the requirements of the flooring manufacturer.
- F. Prior to placing a granular leveling course, the upper 6" of the soil subgrade shall be scarified, moisture-conditioned if necessary, and compacted to the requirements of the Specifications.
- (1). A 4" max. compacted granular leveling course may be placed below the slab as a construction convenience and shall be compacted by vibration. Granular material shall Approved by the Geotechnical Engineer.

10. STRUCTURAL STEEL WORK:

- A. All steel work shall comply with the AISC American Institute of Steel Construction "Code of Standard Practice for Steel Buildings and Bridges".
- B. Provide structural steel work as shown on the drawings Where the design of members or connections are not specifically noted, provide such in accordance with the latest AISC specifications and submit the design with the shop drawings for approval.
- C. Comply with all applicable codes, ordinances, and regulations including those promulgated and enforced by OSHA. See 'STRUCTURAL NOTES, GENERAL' note 6.B.
- D. Hot-Dip Galvanizing: All structural steel shapes, plates, bolts, etc. exposed to weather shall be Hot-Dip Galvanized. See architectural drawings and specifications for finish paint system at exterior steel.
- (1) Touch-up all field welding and other damaged areas of galvanized members w/ 'ZRC' Cold
- E. Bolted Connections: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified. All bolted connections shall be "snug-tight" unless noted otherwise on structural details.
- F. Weld Connections: Comply with AWS D1.1 for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
- (1). Welding Qualifications: Qualify procedures and personnel according to AWS D1.1, "Structural Welding Code - Steel" and AWS D1.3, "Structural Welding Code - Sheet Steel".

11. MASONRY VENEER

- A. See the Architectural Drawings for masonry veneer information, including control joints.
- B. All veneer shall be supported at the head of openings. Unless noted otherwise, use a galvanized steel angle bearing 8" at each end on a 4"x8" 16oz. Copper plate or (2)-layers of roofing felt. Size the angle per the following:

Openings up to 4'-4": Galvanized L4"x4"x5/16" angle Openings from 4'-5" to 5'-8": Galvanized L6"x4"x3/8" angle [L.L.V.]

Openings greater than 5'-8": Galvanized angle anchored to supporting structure, see Details. Any opening that can not be made in accordance with the requirements above and are not detailed on the Structural Drawings, shall be brought to the attention of the Architect/Engineer for

12. SPECIAL INSPECTION:

determination of lintel size.

Special Inspection in accordance with Section 1704 of the 2006 International Building Code will be performed for the following types of work. Special Inspections will be provided by the Owner.

- A. Soils: Special Inspection in accordance with Section 1704.7 of the IBC is required for site preparation, fill placement, and evaluation on in-place density of fill material.
- B. <u>Concrete & Reinforcing Steel</u>: Special Inspection in accordance with Table 1704.4 of the IBC is required for all reinforced concrete, excluding slabs-on-grade that do not have reinforcing bars and site work concrete fully supported on earth. Cast-In anchor bolts shall be inspected.
- C. <u>Structural Steel</u>: Special Inspection in accordance with Section 1704 and Table 1704.3 of the IBC is required for all structural steel.
- D. Post-Installed Anchors: Provide special inspection in accordance with the product's ICC/ES Report. All stress increases have been utilized.

The Contractor shall provide the Special Inspector sufficient notification to allow the required inspections to be made without delaying the construction schedule. The Contractor shall confirm that ALL inspections have been completed and approved by the Special Inspector prior to proceeding with Work.

13. ABBREVIATIONS

ARCH.	Architect	DET.	Detail	SIM.	Similar
B.O.	Bottom Of	EA.	Each	STD.	Standard
B.O.L.	Bottom Of Lintel	EXIST.	Existing	STL.	Steel
B.O.S.	Bottom Of Steel	EXP.	Expansion	THK.	Thick
BOTT.	Bottom	FND.	Foundation	T.O.	Top Of
BRG.	Bearing	FTG.	Footing	T.O.B.	Top Of Beam
BTWN.	Between	HORIZ.	Horizontal	T.O.F.	Top Of Footing
CLR.	Clear	H.S.	Headed Stud	T.O.S.	Top Of Steel
COL.	Column	JST. BRG.	Joist Bearing	T.O.W.	Top Of Wall
CONC.	Concrete	o.c.	On Center	T.S.	Steel Tube
CONT.	Continuous	P.A.F.	Powder Actuated Fastener	TYP.	Typical
COORD.	Coordinate	PL	Plate	U.N.O.	Unless Noted Otherwis
d.b.a.	Deformed Bar Anchor	REINF.	Reinforcing	VERT.	Vertical
DRI	Double	REO'D	Required	\M/	With

WOOD FRAMING WORK

- A. All areas shall be completely framed. All members shall be framed, anchored, tied and braced so as to develop the strength and rigidity for the purpose for which they are used. Unless noted otherwise on the drawings, connect members in accordance with Table 2304.9.1 "Fastening Schedule" of the 2006 International Building Code.
- B. Hardware noted on the plans shall be Simpson Strong-Tie as manufactured by Simpson Company of San Leandro, California. An equivalent anchor manufactured by USP is acceptable subject to approval. The contractor shall submit for approval any proposed substitutions.
- C. WOOD MEMBER CONNECTIONS:
- (1). Connect multiple individual framing members that are parallel and in contact thus:
 - 2 rows of 16d nails at 12"o.c. 2 rows of 16d nails on each face at 12"o.c.
- 4 or 5 Members: 2 rows of 1/4"dia. Simpson SDS Wood Screws or Equal spaced at 12"o.c. Screw length shall match the total thickness of the built-up members. 3/4"dia. A307 Thru-bolts at mid-depth, spaced at 12"o.c.
- (2). Unless noted otherwise on the Drawings, connect joists and rafters to wood members with Simpson 'LUS' hangers matching the joist depth. Unless noted otherwise, use the LUS (hanger) - 2 where members are doubled.
- D. Preservative Pressure-Treatment:
- (1). All wood members shall be treated where in contact with concrete slabs-on-grade, masonry or concrete walls and at all exterior conditions. Treated members shall be Southern-Pine No. 2, unless noted otherwise. Interior sill or rim plates that are protected from weather and in contact with concrete or masonry shall be borate-treated members that are not corrosive to fasteners.
- (2). All Simpson hardware in contact with a wood member pressure treated with a preservative other than borate shall be hot-dipped galvanized or "Z-Max" galvanized, and all nails, bolts. screws and other fasteners shall be hot-dipped galvanized.

STUD WALLS:

A. Wall Stud and Blocking Material minimum "base" design values:

Species/Grade:	S-P-F Stud Gr.	S-P-F Gr. #2
Fb:	675 PSI	875 PSI
Fc (parallel):	725 PSI	1150 PSI
Fc (perp.):	425 PSI	425 PSI
E:	1,200,000 PSI	1,400,000 PSI

B Wood Stud Walls

В.	wood Stud walls.			
	Wall Location	Wood Size/Spa:	Vertical Stud - Wood Grade	Plates - Wood Grade
	Exterior Walls and Interior Bearing Walls:	16"o.c. Spacing; 2x4 or 2x6 as noted on Plans	2x4's: S-P-F #2 2x6's: S-P-F Stud Grade	2x4's: S-P-F #2 2x6's: S-P-F Stud Grade
	Non-Load Bearing Interior Wall Studs:	See Arch. for Size & Spa; 2x4 min.	S-P-F Stud Grade	S-P-F Stud Grade

- Notes: 1. Coordinate locations of interior walls with the Architectural Drawings. 2. All wall sill plates bearing on concrete shall be borate-treated Southern-Pine Gr. #2. 3. Wall Blocking shall match grade and species of wall studs at that level.
- C. Provide headers, sills, bearing studs and jamb studs for openings as shown on the drawings.
- D. At locations where holes greater than 1" are required thru the top plates of stud walls to accommodate items such as roof drains and plumbing, provide studs between the hole and the truss located on each side of the hole
- E. Double top plates shall be installed to provide overlapping at corners and at intersections. Splice plates over study only. Stagger splices between upper and lower plate.
- F. Unless noted or detailed otherwise, sill plates for interior non-bearing partition walls shall be anchored to the concrete floor slab using HILTI 'X-CF 72' sill plate fasteners or approved equal. Fasteners shall be installed in accordance with the manufacturer's ICC-ES Evaluation Report.
- 3. 2x DIMENSIONS LUMBER JOISTS, RAFTERS, HEADERS, BEAMS:
 - A. Use SPF No.: 2, unless noted otherwise, with the following minimum "base" design values:
 - Fb: 875 PSI Fc: 425 PSI (Perpendicular) Fv: 135 PSI E: 1,400,000 PSI

4. WOOD TIMBER POSTS:

- A. Use DF-L No.: 2, unless noted otherwise, with the following minimum "base" design values:
- Fc: 625 PSI (Perpendicular) Fc: 700 PSI (Parallel) E: 1,300,000 PSI
- 5. LAMINATED VENEER LUMBER (LVL) BEAMS, HEADERS, GIRTS:
- A. 1 3/4" wide 1.9E Microllam LVL's as manufactured by Weyerhaeuser or Approved equal with the following minimum "base" design values:
- Fb: 2,600 PSI Fc: 750 PSI (Perpendicular) Fv: 285 PSI E: 1,900,000 PSI
- 6. Unless noted otherwise on the Drawings, connect joists and rafters which frame into wood members with Simpson 'LUS' hangers matching the joist depth. Unless noted otherwise, use the LUS (hanger) - 2 where members are doubled. Provide Simpson 'HU' hangers with sloped or skewed seats where required.
- SHEATHING:
- A. ROOF SHEATHING:
- 1) 19/32" T&G plywood or OSB, 40/20 span rating, Exposure I.
- 1) 23/32" Tongue and Groove plywood or OSB, 48/24 span rating, Exposure I.
- C. WALL SHEATHING: 1) 7/16" plywood or OSB, 24/16 span rating, Exposure I.

8. SHEATHING ATTACHMENT:

A. Sheathing shall be attached per the following, unless noted otherwise on the drawings:

Λ.	Sileatiling	shall be attached per the foll	lowing, unless noted otherwise	on the drawings.		
	Location	Blocking at Panel Edges	Attachment at Other Members			
	Floors	Not Required	Hitachi #8x2 1/4" ballistic fasteners [Model No.: 17644] at 6" <u>or</u> 10d nails at 6"	Hitachi #8x2 1/4" ballistic fasteners [Model No.: 17644] at 10" or 10d nails at 12"		
	Roofs	2x4 min. at Hips, Ridges, and Valleys. Plyclips at all other locations	10d nails at 6"	10d nails at 12"		
	Walls	Full Depth 2x Blocking	8d nails at 6"o.c. <u>or</u> 16ga. x 1-1/2" long	8d nails at 6"o.c. <u>or</u> 16ga. x 1-1/2" long		

staples at 4"o.c. staples at 4"o.c. Note: (1). Sheathing shall be installed with face grain perpendicular to supports and continuous over 2 or more supports. Stagger the 8'-0" panel dimension 4'-0". (2). Floor sheathing shall be glued to supports prior to fastening.

9. WOOD FLOOR TRUSS SYSTEMS

- A. Design, fabricate and install wood truss systems where noted on the plans. Comply with all applicable codes, regulations, and written recommendations of the truss designer and fabricator. Also see Specification Section 061753 for truss design and submittal requirements.
- B. The wood floor truss system shall be designed for the following minimum loads. Design trusses for other

loads as shown on the drawings: See "Structural Notes, General" Item No.: 2 and as noted on <u>Loading</u>: Top Chord Live Load: the Framing Plan drawings sheets.

Top Chord Dead Load: 25 PSF Bottom Chord Dead Load: 10 PSF L/360 <u>Deflection</u>: Total Load: L/480 Live Load:

C. Trusses shall be 3-1/2" wide. Trusses shall have a maximum spacing of 24". Coordinate spacing with plumbing, mechanical and all other work. Show truss locations on shop drawings.

D. Provide appropriate bracing and strongback/impact bridging as recommended by the truss manufacturer, but not less than the following:

> 0'-10'-0" Span None required One row near midspan 10'-0" to 20"-0" Two rows near 1/3 points Over 20'-0"

E. Strongbacks shall be a 2x6 orientated vertically and nailed to a vertical web member of the truss with (3)-10d nails. Splice strongbacks with a 2x6x4'-0" w/ 10d nails at 6". Show strongback details on the shop drawings.

F. Coordination: Coordinate wood-framed floor system work with all other work including full-height partition walls and plumbing, piping, mechanical, and electrical work.

G. Submittals: See 'Wood Roof-Framed System' Note 10.C and specifications for submittal requirements.

10. WOOD ROOF-FRAMED SYSTEM:

- A. General Requirements
- (1) Design, fabricate and install the complete Roof Truss System including prefabricated wood trusses, other prefabricated components, blocking, bracing, bridging, connectors, plywood roof sheathing, and any other materials or members which may be required for all buildings or portions of buildings unless noted otherwise. Comply with all applicable codes, regulations, and written recommendations of the truss designer and fabricator. Also see Specification Section 061753.
- (2) Members shall be spaced as required by design but not more than 24 inches on center. The arrangement, position, shape, and details of the framing shall accommodate all other work shown on the drawings, such as plumbing, piping, mechanical, and electrical work. Provide header trusses
- (3) Member Sizes: All truss chords and webs shall be 2x4 minimum, except where noted or detailed
- otherwise on the Drawings. (4) The shape of the completed Roof Truss System shall conform to the drawings. See the plans for the top and bottom chord slopes and elevations. Note that the elevation of the bottom chord is stepped or sloped at various locations to accommodate architectural and mechanical work.

B. Design Requirements:

- (1) The Roof Truss System shall be designed by a Professional Engineer to conform to applicable building codes and regulations and to the requirements of plans and specifications.
- (2) Design wood Roof Truss System for the following loads: a) Top Chord Live Load:
- 30 PSF minimum [Load Factor: 1.0]; Non-concurrent with Snow. b) Top Chord Snow Load: See "Structural Notes, General" Item No.: 2 for Snow Load criteria
- Calculate snow loads including drifting, sliding and unbalanced loading in accordance w/ ASCE 7-05, Section 7. c) Top Chord Dead Load: 10 PSF
- d) Bottom Chord Dead Load: e) Concentrated Loads: The chords of all trusses shall be designed for a single 200 lb. concentrated live load acting at any point along the Top and Bottom chords. This concentrated load does NOT
- act concurrently with the uniform live loads.
- f) Any additional loads specifically noted on the Framing Plans g) Wind Load:
 - 90 MPH 3 Second Gust (Exposure B) Basic Wind Speed: Notes: 1. The maximum roof dead load used to resist wind load uplift shall be 6 psf on the top chord and 3 psf on the bottom chord.
 - 2. The vertical parapet members shall be designed for the horizontal parapet 3. Design trusses as Component and Cladding members in accordance with
- the 2006 International Building Code h) Deflection: Total Load: L/360 Live/Snow Load:
- (3) Compression chord braces, any other braces or bridging, and other members or connectors required to assure proper performance of the Roof Truss System are to be included in the design, fabrication, and erection of the system. Where a gypsum ceiling is attached directly to the truss bottom chord, the ceiling may be considered to provide compression bracing of the bottom chord.
- (4) Where bracing is required to reduce the buckling length of individual truss members, design and specify the bracing and connections. Bracing may be either "T" bracing or continuous lateral bracing. Continuous lateral bracing shall be stabilized by diagonal bracing in the plane of the truss member being braced. All bracing and bracing details shall be shown on the Truss Placement drawings.
- (1) <u>Truss Placement Drawing</u>: The truss placement drawing shall show the location of all trusses, the identification of each truss, truss to truss connections, connection of trusses to supporting structure, location where lateral bracing of truss members is required, details for the installation of lateral bracing and stabilization of lateral bracing, and all other information needed for installation of the wood framed
- roof system. Provide handling and erection instructions. (2) <u>Individual Truss Drawings</u>: The individual truss drawings shall show the design loads, truss geometry, lumber size and grade, member forces, metal plate manufacturer, metal plate size, truss reactions, and
- locations where compression chord bracing is required. (3) Both the Truss Placement Drawing and the Individual Truss Drawings shall be signed and sealed by a Professional Engineer registered in the State of Nebraska. The submittals to the Architect/Engineer shall conform to one of the following requirements:

a). Both the Truss Placement Drawing and Individual Truss Drawings are signed and sealed by the

- same Professional Engineer. b). If the Truss Placement Drawings and Individual Truss Drawings are signed and sealed by different Professional Engineers, the submittal shall contain a statement from one of the engineers verifying that he/she has reviewed the Truss Placement Plan and that all of the work shown on the
- placement plan (location, layout, bracing, connections, etc.) is consistent with the truss loadings, reactions, and bracing requirements shown on the Individual Truss Designs.
- D. Coordination: Coordinate wood-framed roof system work with all other work including full-height partition walls and plumbing, piping, mechanical, and electrical work.
- E. Connection of System to Supporting Walls and Beams:
- (1) "Toe-nails" are not allowed. Connect trusses at all bearing on walls and beams with Simpson connectors as shown below, unless specifically noted otherwise on the Framing Plans.

hanger to be used at those locations after review of Shop Drawings.

- a). Individual single-ply Trusses to Exterior wall: Simpson "H1" tie. Individual single-ply Trusses to Interior wall: Simpson "H2.5T" tie. Girder Trusses perpendicular to wall: Simpson "LGT2", "LGT3-SDS2.5", or "LGT4-SDS2.5".
- c). Girder Trusses parallel to wall: (2)-Simpson "H7Z" strap ties. Note: The attachments noted above or elsewhere on the Drawings for trusses to bearings are a minimum. If the actual uplift or other design reaction exceeds the capacity of the hanger specified, the Truss Manufacturer shall indicate those locations along with the corresponding uplift on the 'Truss Placement Drawing'. Structural Engineer (TD2) will then determine actual
- F. Connection of Trusses to Trusses:
- (1) Truss-to-truss connections shall be specified on the Truss Placement Drawings. "Toe-nails" are not allowed. Connect trusses which frame into each other using mechanical connectors or by bearing trusses on trusses. Truss-to-truss connections shall be designed to resist all loads.

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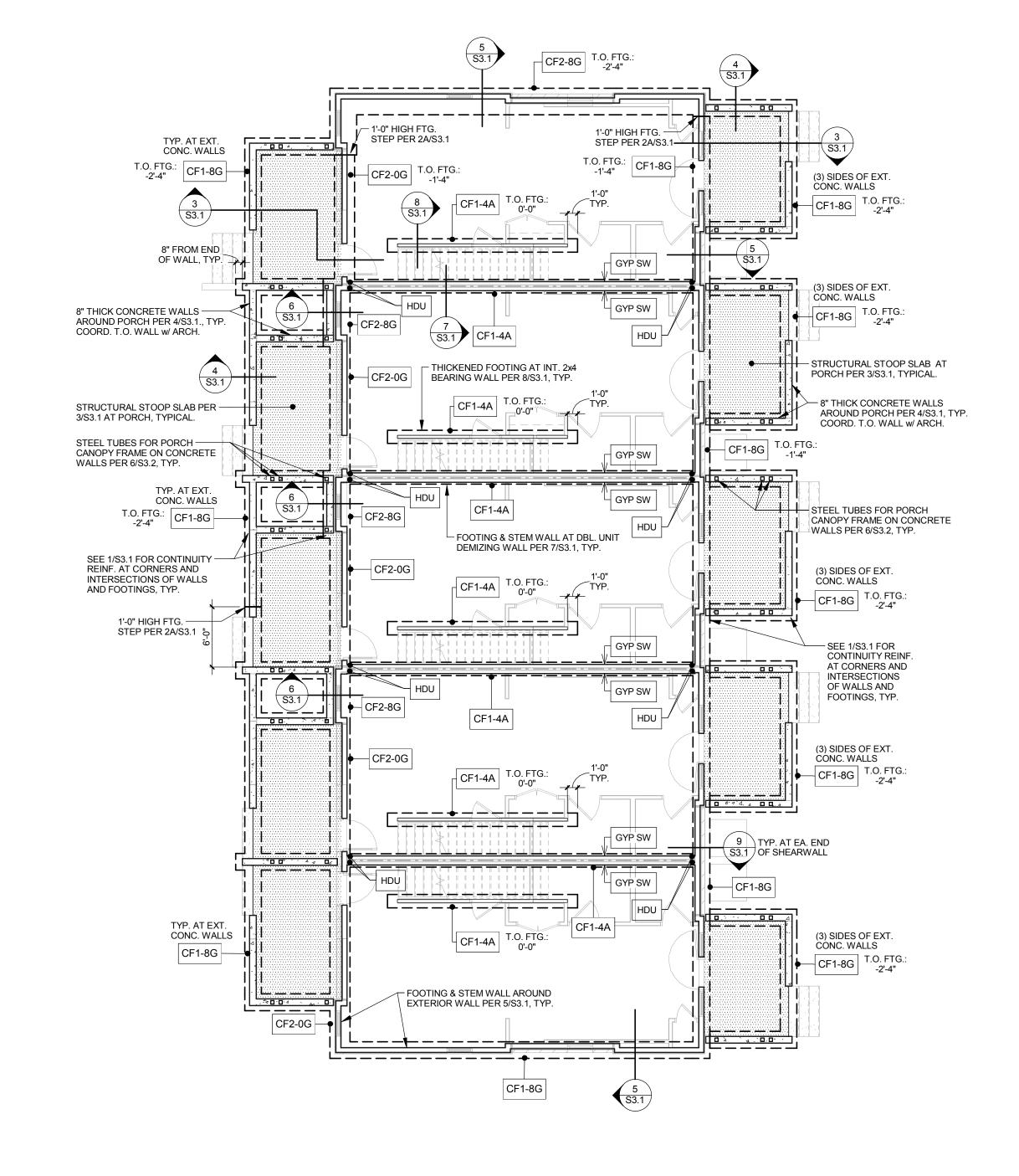
REVISION PROJECT NUMBER: 15051-2

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DATE: SEPTEMBER 4, 2015

STRUCTURAL NOTES

DATE



FOUNDATION PLAN - NORTH TOWNHOME BUILDING (SOUTH BUILDING SIMILAR)

FOUNDATION PLAN NOTES:

- SEE STRUCTRUAL NOTES ON SHEET S0.1.
- COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND EXIST. CONDITIONS.
- 3. TOP OF FOOTING ELEVATION = -1'-4" BELOW FINISH FIRST FLOOR LEVEL, TYPICAL UNLESS NOTED OTHERWISE.
- -F---- FOOTING MARK, SEE SCHEDULE ON SHEET S1.1.
- $| \hspace{.1cm} \mathsf{GYP} \hspace{.1cm} \mathsf{SW} \hspace{.1cm} | \hspace{.1cm} \longrightarrow \hspace{.1cm} : \mathsf{INDICATES} \hspace{.1cm} \mathsf{5/8"} \hspace{.1cm} \mathsf{THICK} \hspace{.1cm} \mathsf{GYPSUM} \hspace{.1cm} \mathsf{SHEATHING} \hspace{.1cm} \mathsf{(DRYWALL)} \hspace{.1cm} \mathsf{ON} \hspace{.1cm} \mathsf{INTERIOR} \hspace{.1cm} \mathsf{SHEARWALL}.$
- IN GENERAL, ALL INTERIOR UNIT DEMIZING WALLS ARE INTERIOR SHEARWALLS. - FASTEN GYPSUM SHEATHING TO SHEARWALL STUDS WITH #6 TYPE 'S' or 'W' DRYWALL SCREWS AT 4"o.c. AT ALL PANEL EDGES AND 7"o.c. IN THE FIELD. - ALL PANEL EDGES SHALL BE FULLY BLOCKED w/ 2x4 BLOCKING.
- HDU : INDICATES THE LOCATION OF A SIMPSON 'HDU5-SDS2.5' HOLDDOWN.
- THE HOLDDOWN SHALL BE FASTENED TO (2)-2x WALL STUDS AT EACH END AS SHOWN IN DETAIL 9/S3.1. : INDICATES STRUCTURAL STOOP SLAB PER DETAIL 3/S3.1.

				FOOTING SC	CHEDULE
		SIZE			
MARK	W	L	D	REINFORCING	REMARKS
CF1-0G	1'-0"	CONT.	3'-0"	(1) - #6 TOP AND BOTTOM	TYPICAL STOOP FOOTING PER 3/S3.1. PROVIDE BENT CORNER BARS PER 1/S3.1 AT CORNERS AND INTERSECTIONS
CF1-4A	1'-4"	CONT.	1'-0"	(3) CONT. #4's BOTTOM	SEE PLAN FOR T.O. FTG. AT FOUNDATION DETAIL, TYP.; PROVIDE BENT CORNER BARS PER 1/S3.1 AT CORNERS AND INTERSECTIONS
CF1-8G	1'-8"	CONT.	3'-0"	(1) CONT. #7 TOP AND BOTTOM	PROVIDE BENT CORNER BARS PER 1/S3.1 AT CORNERS AND INTERSECTIONS
CF2-0G	2'-0"	CONT.	3'-0"	(1) CONT. #8 TOP AND BOTTOM	PROVIDE BENT CORNER BARS PER 1/S3.1 AT CORNERS AND INTERSECTIONS
CF2-8G	2'-8"	CONT.	3'-0"	(2) CONT. #8's TOP AND BOTTOM	FOOTING AT PLANTER WALL ALONG BUILDING PER 6/S3.1 AND LOWERED FOOTING ON NORTH SIDE OF BUILDING PER 5/S3.1.

THE **HIGHLANDER TOWNHOMES** 30TH AND PATRICK



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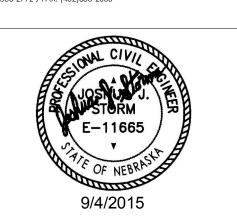
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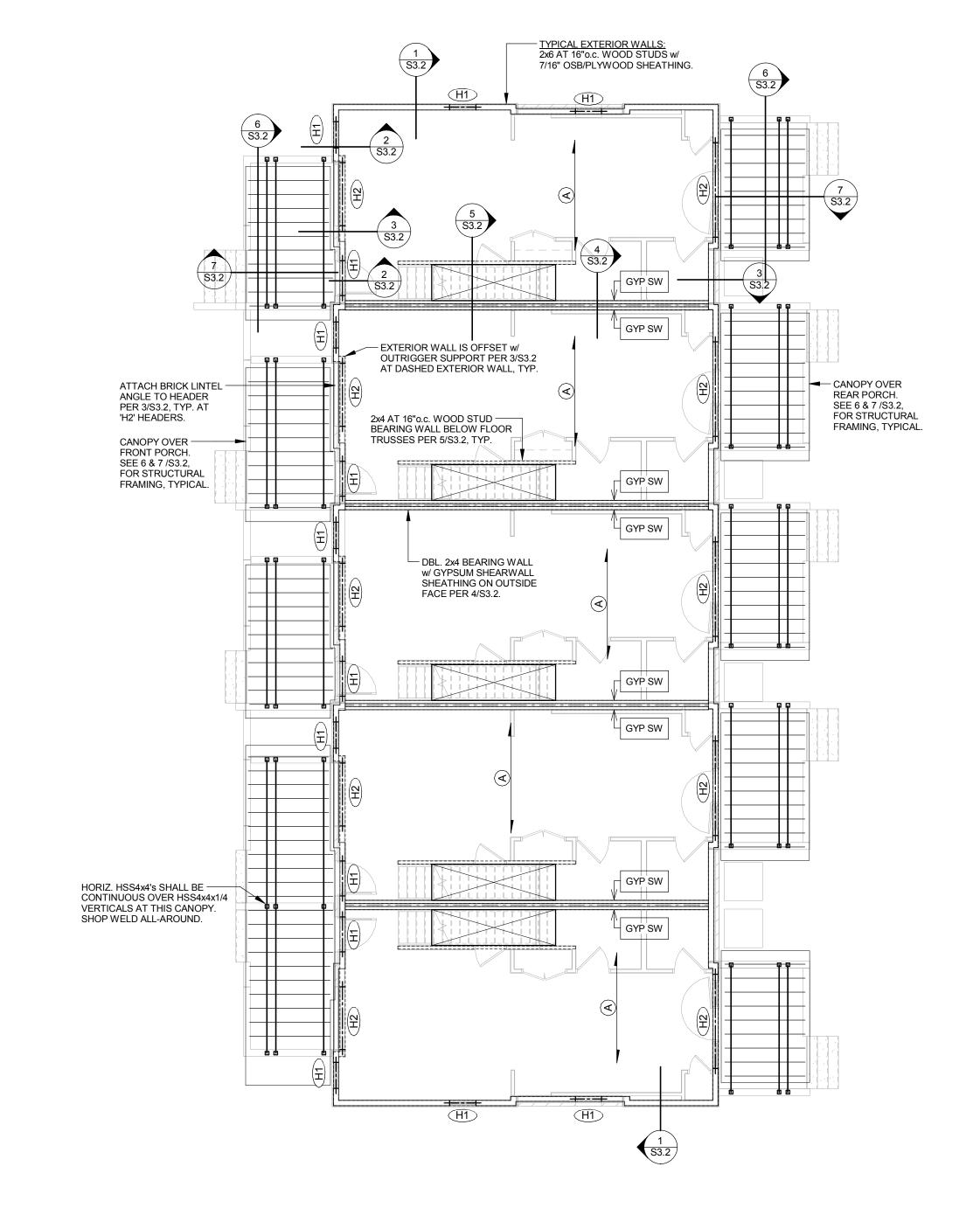
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FOUNDATION PLAN



SECOND FLOOR FRAMING PLAN - NORTH TOWNHOME BUILDING 1/8" = 1'-0" (SOUTH BUILDING SIMILAR)

SEC	COND FLOOR FRAMING PLAN NOTES:
1.	SEE STRUCTRUAL NOTES ON SHEET S0.1.
2.	COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND EXIST. CONDITIONS.
3.	T.O. FLOOR SHEATHING ELEVATION: 11'-0" ABOVE FIRST FLOOR LEVEL NOTE: T.O. FIRST FLOOR WALLS ARE 9'-5 1/4" ABOVE FIRST FLOOR LEVEL, TYPICAL.
4.	: INDICATES SPAN DIRECTION OF WOOD FLOOR TRUSSES:
	(A): 18" DEEP WOOD FLOOR TRUSS AT 24"o.c. MAXIMUM.
5.	GYP SW : INDICATES 5/8" THICK GYPSUM SHEATHING (DRYWALL) ON INTERIOR SHEARWALL.
	 IN GENERAL, ALL INTERIOR UNIT DEMIZING WALLS ARE INTERIOR SHEARWALLS. FASTEN GYPSUM SHEATHING TO SHEARWALL STUDS WITH #6 TYPE 'S' or 'W' DRYWALL SCREWS AT 4"o.c. AT ALL PANEL EDGES AND 7"o.c. IN THE FIELD. ALL PANEL EDGES SHALL BE FULLY BLOCKED w/ 2x4 BLOCKING.
6.	H : INDICATES WOOD HEADER FRAMING AROUND OPENINGS THRU WOOD STUD BEARING WALLS. SEE "WOOD HEADER SCHEDULE" ON SHEET S1.2.
7.	MECHANICAL DUCTS CROSSING BEARING WALLS THAT CAN NOT BE LOCATED BETWEEN BEARING STUDS SHALL HAVE A HEADER ABOVE THE DUCT. UNLESS NOTED OTHERWISE FOR OPENINGS LESS THAN 30" WIDE USE HEADER TYPE 'H1' ABOVE DUCT PENETRATION.





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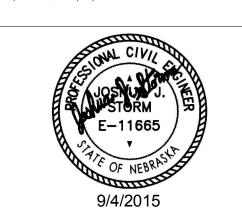
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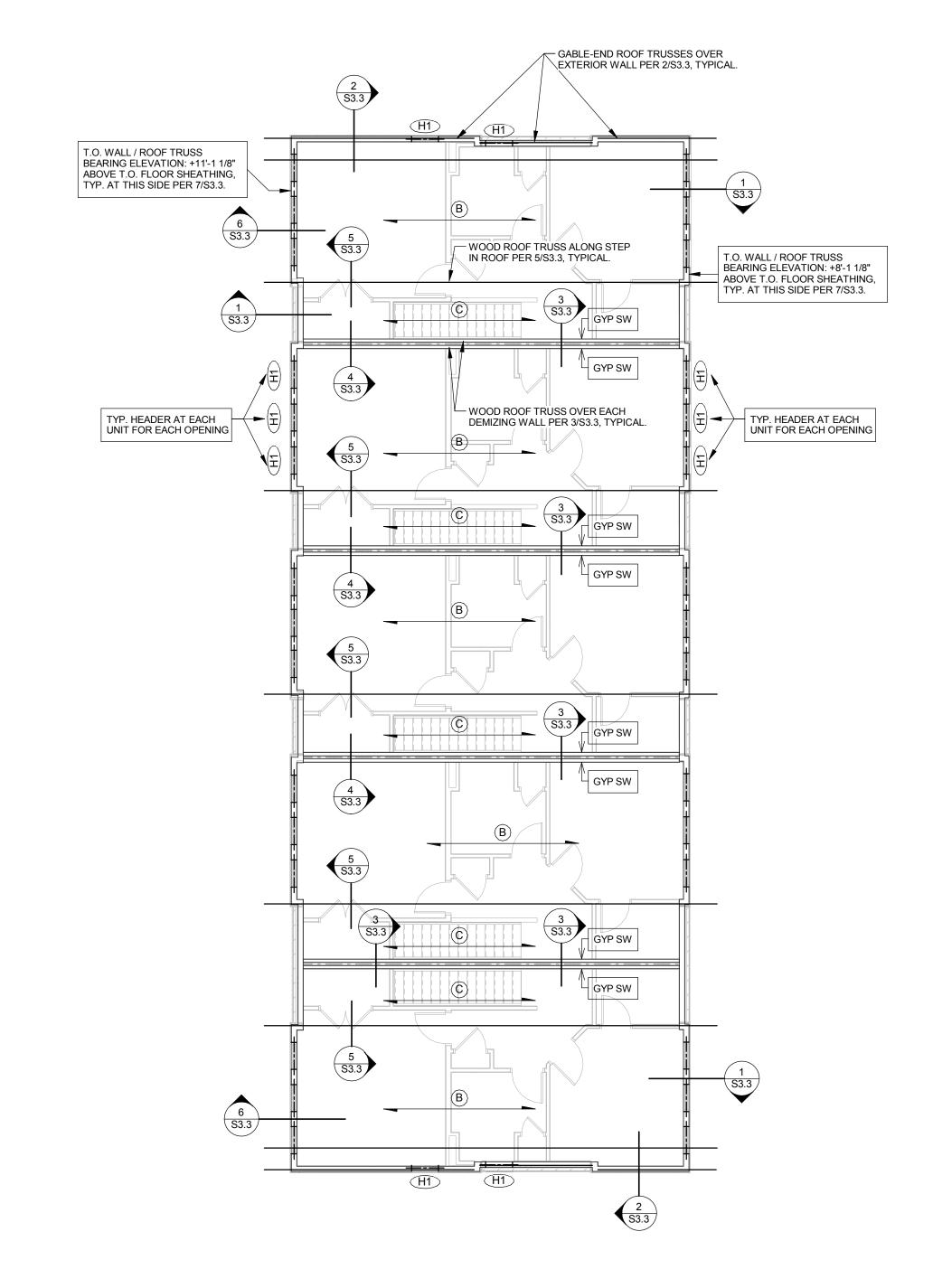
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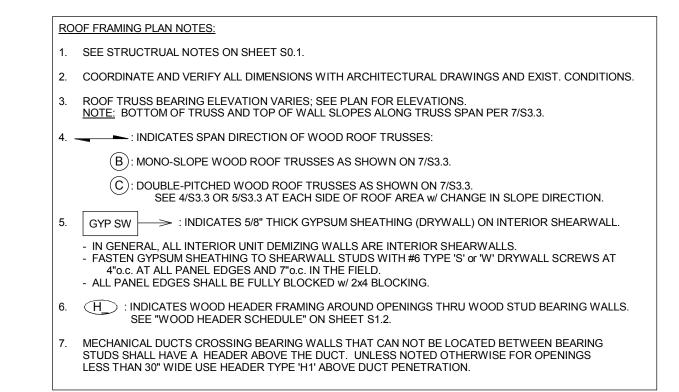
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SECOND FLOOR FRAMING PLAN

		WOOD	HEADER SCHEDU	ILE
MARK	SIZE	BEARING or JACK STUD(s) EA. END		REMARKS
H1	(3)-2x6's	(1)-2x6's	(2)-2x6's	SEE 8/S3.3 FOR DETAIL REFERNECE
H2	(3)-1 3/4"x9 1/4" LVL	(2)-2x6's	(2)-2x6's	SEE 8/S3.3 FOR DETAIL REFERNECE



ROOF FRAMING PLAN - NORTH TOWNHOME BUILDING (SOUTH BUILDING SIMILAR) 1/8" = 1'-0"



THE HIGHLANDER **TOWNHOMES** 30TH AND PATRICK OMAHA NE 68111



ALLEY POYNER MACCHIETTO

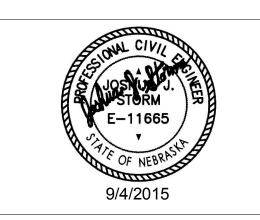
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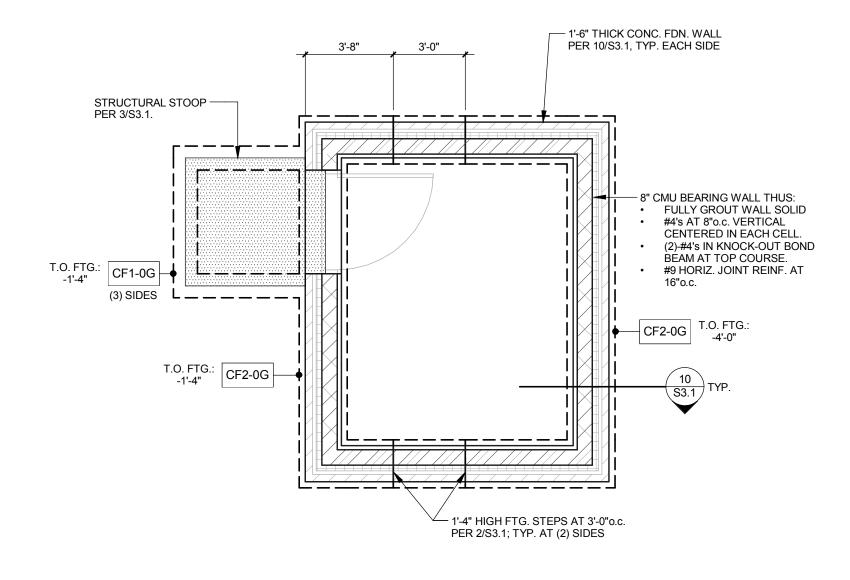
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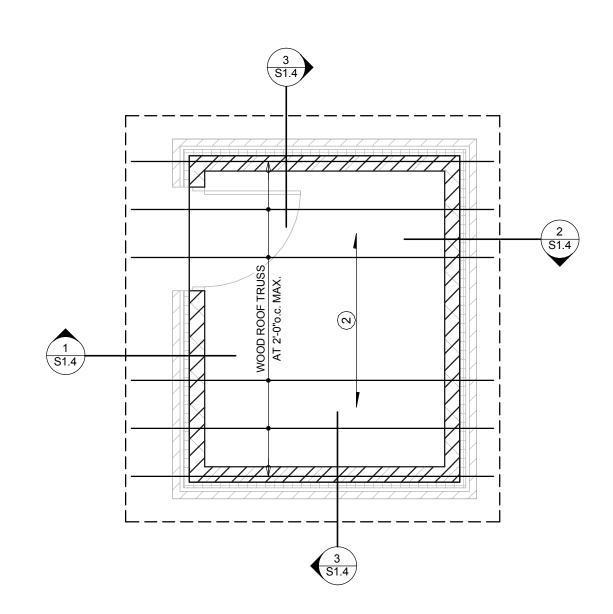
ROOF FRAMING PLAN



FOUNDATION PLAN NOTES - STORM SHELTER:

- SEE STRUCTRUAL NOTES ON SHEET S0.1.
- COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND EXIST. CONDITIONS.
- SEE PLAN FOR TOP OF FOOTING ELEVATION RELATIVE TO FINISH FLOOR LEVEL.
- -F---- FOOTING MARK, SEE SCHEDULE ON SHEET S1.1.

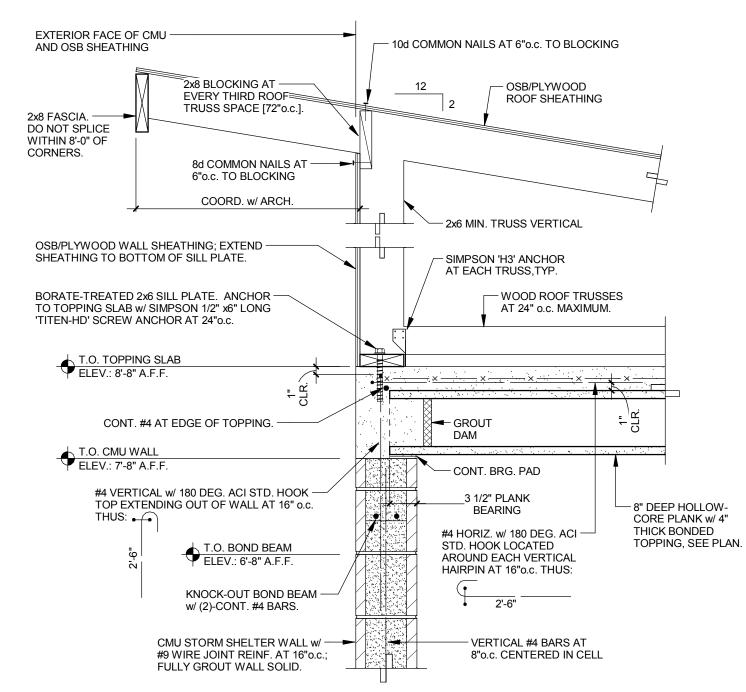




ROOF FRAMING PLAN NOTES - STORM SHELTER:

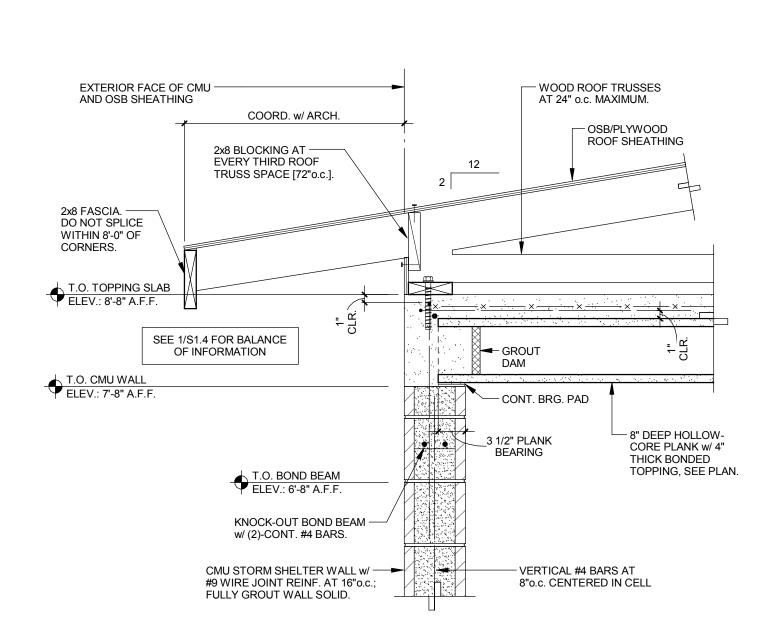
- SEE STRUCTRUAL NOTES ON SHEET S0.1.
- COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS AND EXIST. CONDITIONS.
- TOP OF CMU WALL / HOLLOWCORE PLANK BEARING ELEVATION: ABOVE FINISH FLOOR
- 2 : INDICATES SPAN DIRECTION OF 8" HOLLOWCORE PLANK w/ 4" THICK BONDED TOPPING.
 REINFORCE TOPPING SLAB WITH #4's AT 16"o.c. EACH WAY CHAIRED IN PLACE 1 1/2" ABOVE THE TOP OF PLANK. THE PRECAST PLANK SHALL BE DESIGNED FOR ACTUAL PLANK AND TOPPING DEAD LOADS, PLUS A 200 PSF MINIMUM LIVE LOAD.
- OPENINGS GREATER THAN 1'-4" WIDE THRU THE CMU BEARING WALL SHALL HAVE A LINTEL AT THE HEAD THUS: (2)-#4's BOTTOM IN AN 8" DEEP BOND BEAM. THE BARS SHALL EXTEND 2'-0" MINIMUM BEYOND THE JAMBS OF THE OPENING.

ROOF FRAMING - STORM SHELTER

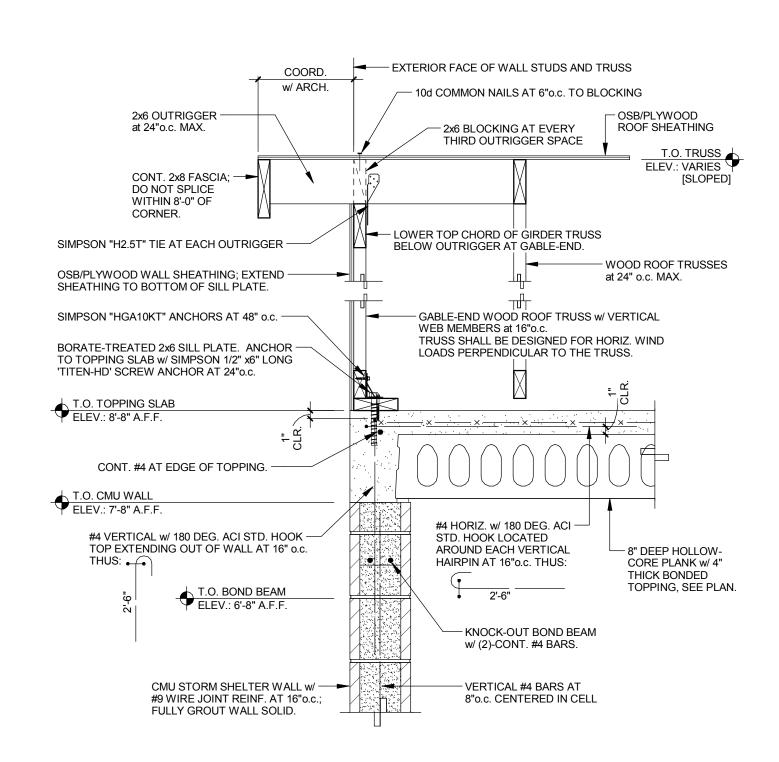


1 H.C. SLAB BRG. ON CMU WALL

1" = 1'-0"



2 H.C. SLAB BRG. ON CMU WALL



H.C. SLAB BRG. ON CMU WALL

THE HIGHLANDER **TOWNHOMES** 30TH AND PATRICK



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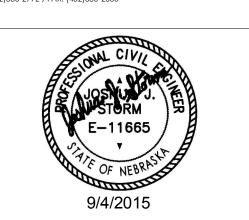
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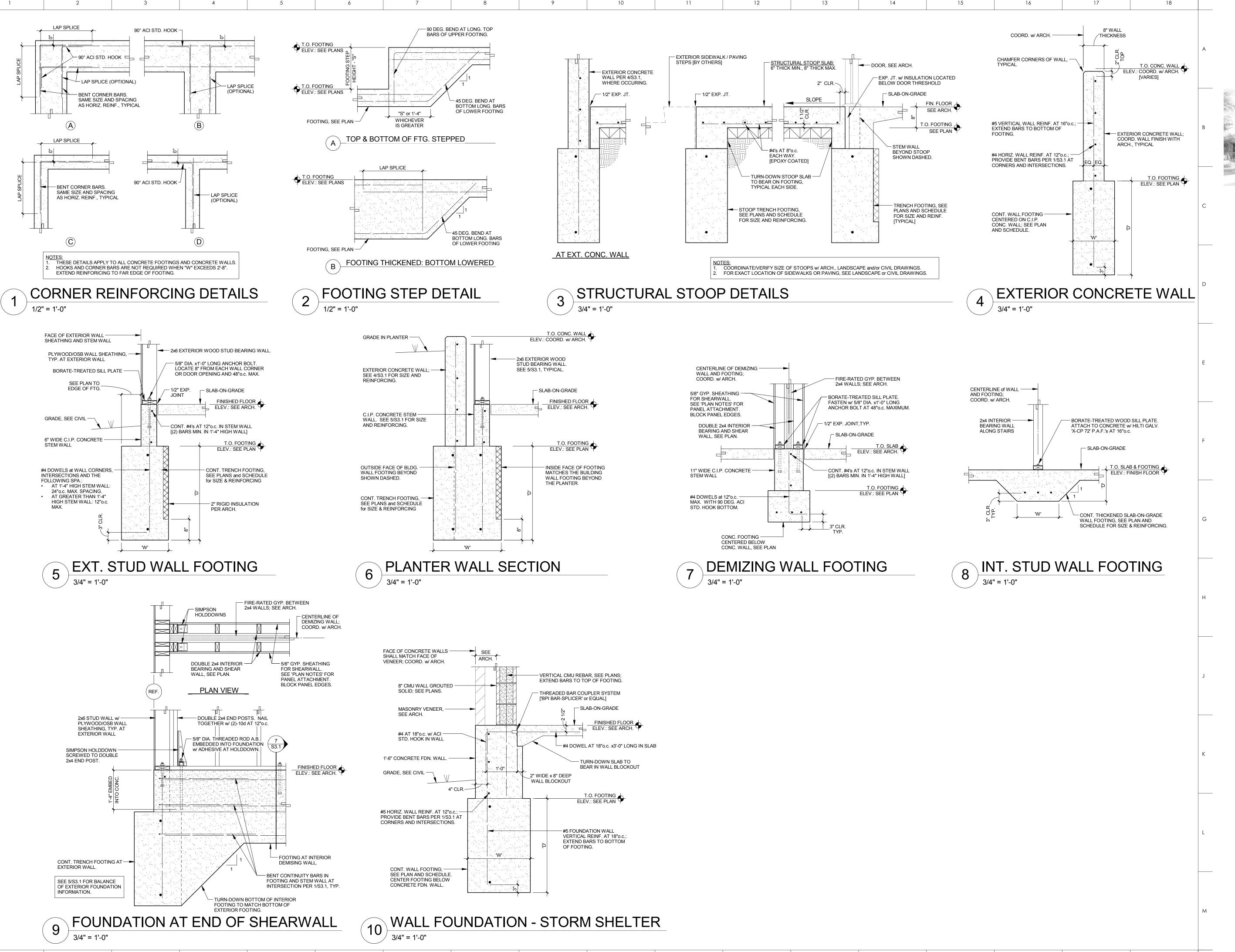
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FOUNDATION AND ROOF FRAMING PLANS STORM SHELTER





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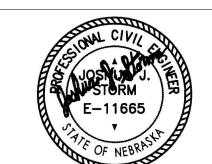
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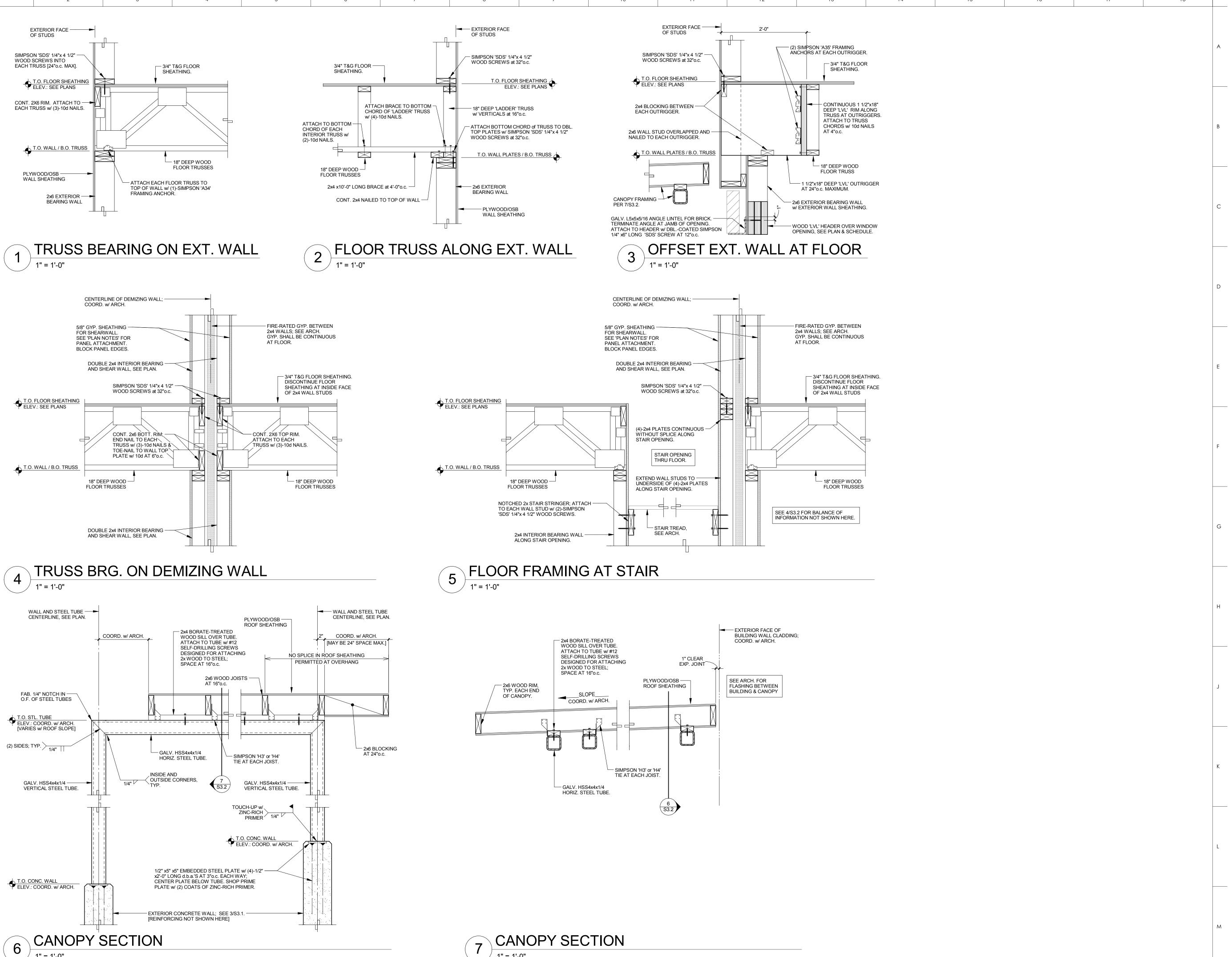
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STRUCTURAL SECTIONS





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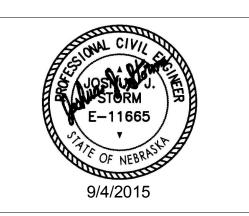
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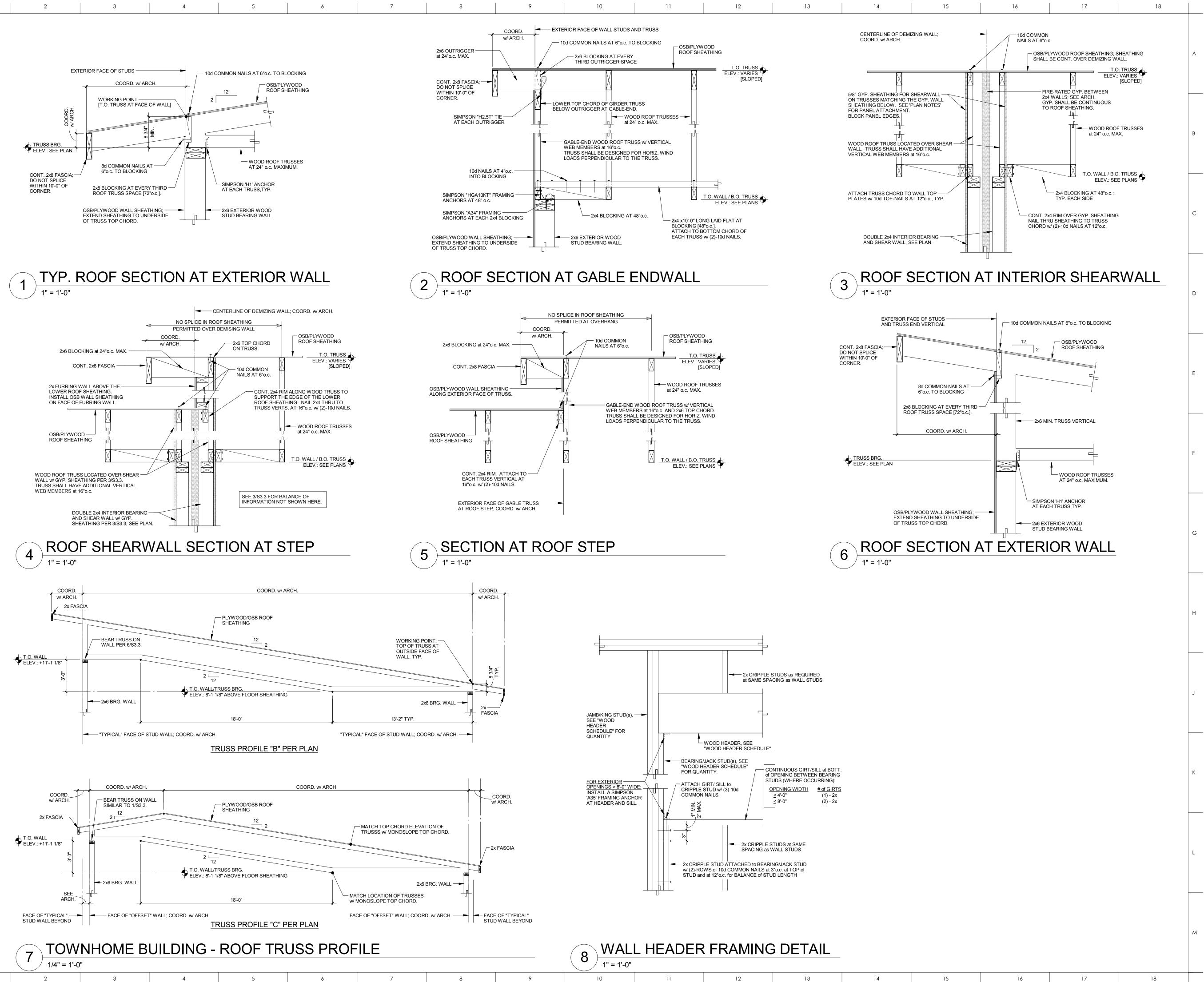
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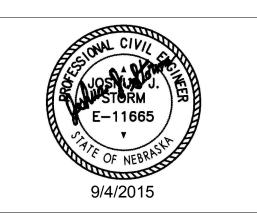
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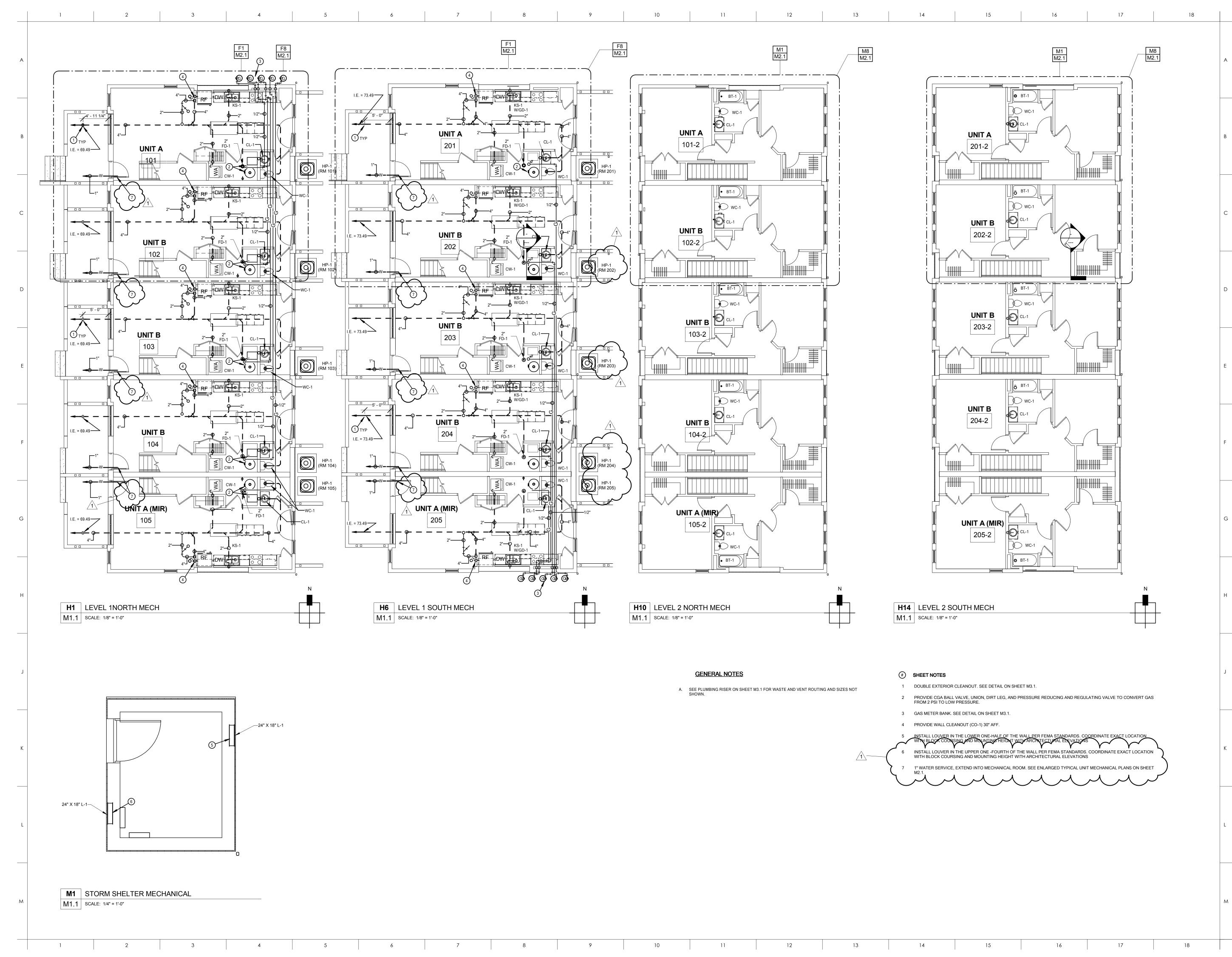
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STRUCTURAL SECTIONS

\$3.3





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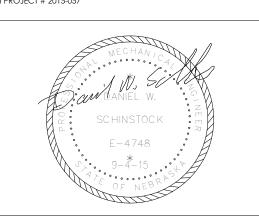
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ETI PROJECT # 2015-057

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ETI PROJECT # 2015-057



09.24.2015

DATE

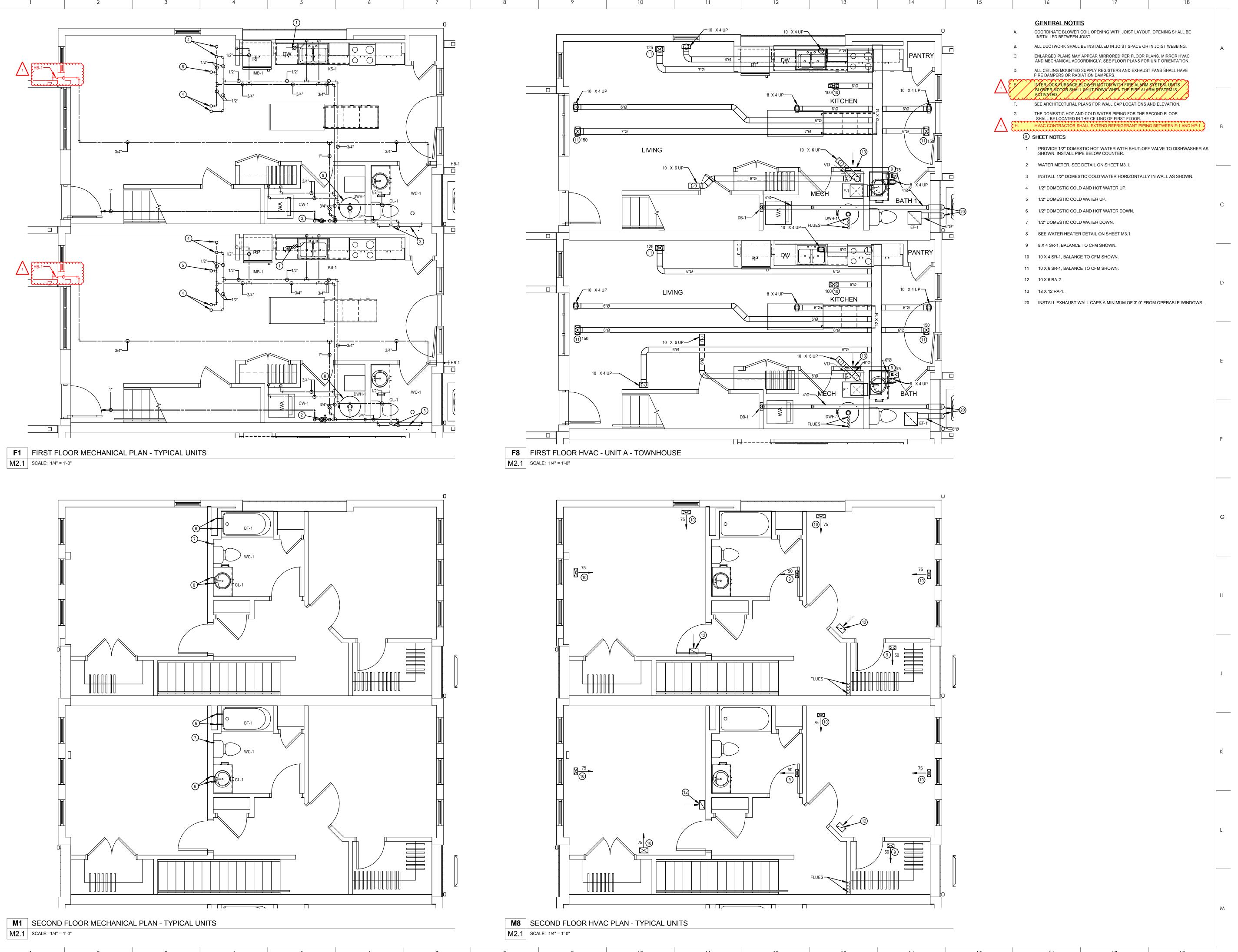
1 ADDENDUM #1

REVISION

PROJECT NUMBER: 15051-2 DATE: September 4, 2015

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MECHANICAL PLANS



OMAHA NE 68111



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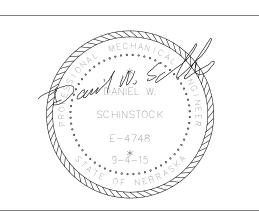
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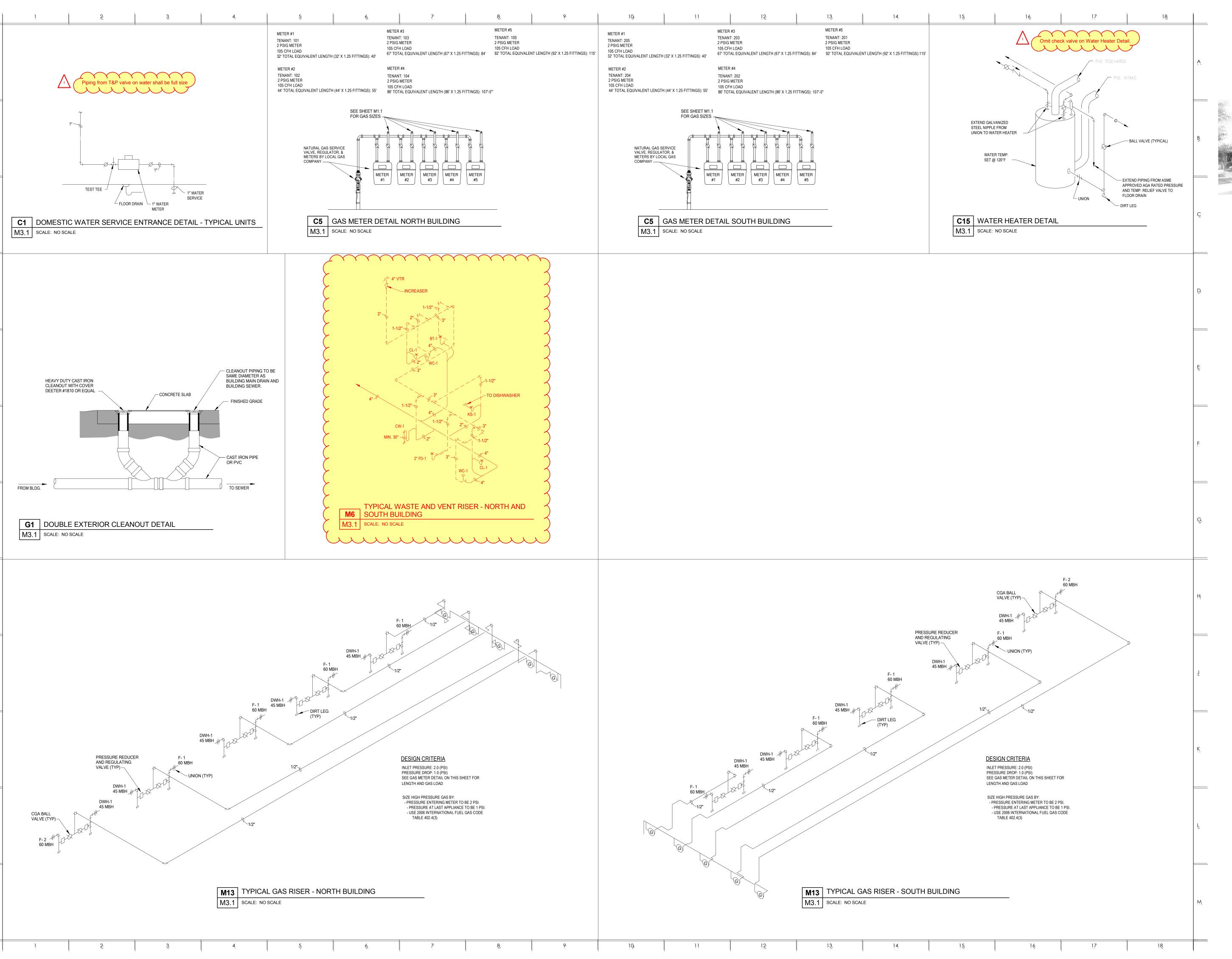
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ENLARGED TYPICAL UNIT MECHANICAL PLANS

M2.1





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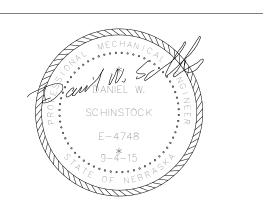
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MECHANICAL DETAILS AND RISERS

ALLEY POYNER MACCHIETTO ARCHITECTURE, INCORPORATED

DATE

WATER HEATER SCHEDULE MECHANICAL SYMBOLS STORAGE CAPACITY RECOVERY INPUT ENERGY [MBH] FACTOR MARK MANUFACTURER MODEL (90°F RISE) NOTE REFERENCE (HXØ) [GAL] [GPH] SOIL AND WASTE RISER IDENTIFICATION (RISER"B") DWH-1 57-1/2 x 21 50.3 GPD-50 A.O. SMITH

WATER HEATER SCHEDULE NOTES

THERMOSTAT

ELECTRICAL PANEL

———XXX——— PIPING ABOVE FLOOR OR ABOVE GROUND

XXX PIPING BELOW FLOOR OR UNDER GROUND,

SOIL AND WASTE PIPING ABOVE GRADE SOIL AND WASTE PIPING BELOW GRADE

---V--- VENT PIPING ON FLOOR PLAN

TEE DOWN AND TEE UP

VALVE IN VERTICAL PIPING

PIPING UNION CHECK VALVE

WATER METER

GAS METER

FLOOR DRAIN

HOSE BIBB

CLEANOUT

P-TRAP

PIPE BREAK MARK

ROUND DUCTWORK BREAK MARK

RECTANGULAR DUCTWORK BREAK MARK

SR SUPPLY REGISTER

BELOW FLOOR OR UNDER GROUND P-TRAP

P-TRAP THAT SERVES DISPOSAL

BALL VALVE

BUTTERFLY VALVE GATE VALVE

PIPING STRAINER

—JO

⊚ KSD

CW

 \Longrightarrow

— — — — VENT PIPING ON PLUMBING RISER ————— DOMESTIC COLD WATER PIPING —————— DOMESTIC HOT WATER PIPING -----REF------- REFRIGERANT PIPING (PAIR) C+--- C+--- ELBOW DOWN AND ELBOW UP

SECTION IDENTIFICATION SHEET NUMBER

DETAIL IDENTIFICATION

DETAIL NUMBER
SHEET NUMBER

SYMBOL INDICATES TYPE OF SERVICE

SYMBOL INDICATES TYPE OF SERVICE

1. PROVIDE WATER HEATER WITH 3" CONCENTRIC VENT TERMINATION KIT.

		DIFFUSER, REGISTER, AND GRILLE SCHEDULE
MARK	FUNCTION	MANUFACTURER AND MODEL (OR EQUAL)
CD-1	CEILING DIFFUSER TYPE 1	HART & COOLEY MODEL 24, SQUARE CEILING DIFFUSER, STEEL, BORDER TYPE FOR LAY-IN CEILING, 24" X 24" PANEL, OFF-WHITE FINIS NECK SIZE AS INDICATED ON THE DRAWINGS.
SR-1	SUPPLY AIR REGISTER TYPE 1	HART & COOLEY MODEL 682, 2-WAY, INTEGRAL STEEL MULTI-SHUTTER DAMPER, 1/2 INCH SPACED FINS, WHITE FINISH, STEEL CONSTRUCTION. SHALL HAVE CEILING STATIC RADIATION DAMPER.
SR-2	SUPPLY AIR REGISTER TYPE 2	HART & COOLEY MODEL 92VHV, DOUBLE DEFLECTION, VERTICAL BLADE, OPPOSED BLADE DAMPER, OFF-WHITE FINISH, ALUMINUM CONSTRUCTION.
SR-3	SUPPLY AIR REGISTER TYPE 3	HART & COOLEY MODEL SVH, SPIRAL MOUNT DOUBLE DEFLECTION, VERTICAL BLADE, EXTRACTION DAMPER, MILL FINISH, ALUMINUM CONSTRUCTION.
RA-1	RETURN AIR GRILLE TYPE 1	HART & COOLEY MODEL 672, FINS AT 40° ANGLE, 1/2" BLADE SPACING, WHITE FINISH, STEEL CONSTRUCTION.
RA-2	RETURN AIR GRILLE TYPE 2	HART & COOLEY MODEL 94, 0° FIXED DEFLECTION, 3/4 INCH SPACED BLADES, WHITE FINISH, STEEL CONSTRUCTION.
RA-2	RETURN AIR GRILLE TYPE 3	HART & COOLEY MODEL PDR, 24 X 24 PERFORATED RETURN, WHITE FACE AND BLACK BACK PANEL, STEEL CONSTRUCTION.
L-1	LOUVER TYPE 1	GREENHECK AFL-501 FEMA LOUVER, 2" x 5" x 2" CHANNEL 1/4" THICK FORMED ALUMINUM, BIRD SCREEN. COLOR TO BE DETERMINED B' ARCHITECT FROM STANDARD COLOR CHART, SUBMIT COLOR CHART AT SHOP DRAWING PROCESS.
XA-1	EXHAUST AIR GRILLE TYPE 1	HART AND COOLEY MODEL 94, STEEL CONSTRUCTION, OFF-WHITE FINISH HORIZONTAL BLADES, 0° DEFLECTION, SURFACE MOUNTED, BLADE SPACING.

				EXH	IAUS	T FAN	SCHED	ULE				
					SONES	TOTAL S.P. (IN. W.C.)	MAX. FAN RPM	ELECTRICAL				
MARK	SERVES	TYPE	MAX. WEIGHT (LBS.)	AIR FLOW (CFM)				MAX WATTS	H.P.	VOLT/ PHASE	MANUFACTURER	MODEL
EF-1	RESIDENTS BATHROOMS / JANITOR	CEILING	15	85	1.4	0.3	-	35 - 120 / 1		соок	GC-146	

EXHAUST FAN SCHEDULE NOTES: P-TRAP THAT SERVES FIXTURE ON FLOOR ABOVE

- 1. PROVIDE EF-1 WITH RADIATION DAMPER, PLASTIC WHITE GRILLE, INTEGRAL DISCONNECT, AND SEIHO INTERNATIONAL, INC. MODEL
- SFZ, 6" WALL CAP WITH LARGE FREE AREA AND DAMPER OR EQUAL. WALL CAP COLOR SHALL BE DETERMINED BY ARCHITECT, PROVIDE ACTUAL COLOR CHART
- WITH SHOP DRAWINGS. PHOTO COPY OF COLOR CHART WILL NOT BE ACCEPTABLE. 2. EF-1 SHALL BE CONTROLLED BY WALL SWITCH, COORDINATE WITH ELECTRICAL CONTRACTOR.

>			Register				received	l prior a	ipprova	Nailo	dding ir	purposes	subject t	o shop	drawin	g revi
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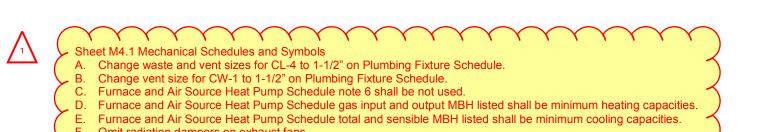
PIPE BREAK MARK
ВАТНТИВ
WATER CLOSET PRIOR APPROVAL
COUNTER LAVATORY 1. The following mathematical and the follow
KITCHEN SINK WITH DISPOSAL
CLOTHES WASHER
DISHWASHER
ROUND DUCTWORK SECTION
SUPPLY AIR DUCTWORK SECTION
RETURN, FRESH, OR EXHAUST AIR DUCTWORK SECTION
TURNING VANES IN DUCT
FIRE DAMPER AND ACCESS DOOR INTO DUCT
MOTORIZED DAMPER IN DUCT
MANUAL VOLUME DAMPER IN DUCT (ADJUSTABLE)
CEILING DIFFUSER WITH REGAIN BOX. FLEXIBLE DUCT TO BE A MAXIMUM 3'-0" LONG
SUPPLY REGISTER
RETURN OR EXHAUST AIR GRILLE
HIGH EFFICIENCY TAKE-OFF, SEE SPECIFICATION
HIGH EFFICIENCY TAKE-OFF WITHOUT BALANCING DAMPER, SEE SPECIFICATION
DUCTWORK
FLEXIBLE DUCTWORK CONNECTION

		FURNACE & AIR SOU												PUI	MP SC	HED	ULE				
	NATURAL GAS FURNACE												AIR SOURCE HEAT PUMP CARRIER MODEL NUM								
MARK			EXT. S.P.	OUTDOOR		ELEC	CTRICAL		MIN. CA	APACITIES	AFUE	MIN.	COP	MIN. C	APACITIES	E	LECTRICA	AL .			
	ORIENTATION	CFM	(IN. W.C.)	AIR CFM	HP	M.O.P.	F.L.A.	VOLT/ PHASE	INPUT (MBH)	OUTPUT (MBH)	(%)	SEER	@ 47°F	TOTAL (MBH)	SENSIBLE (MBH)	M.O.P.	M.C.A.	VOLT/ PHASE	FURNACE	EVAPORATOR	HEAT PUMP
F-1 HP-1	VERTI CAL	1000	0.5	NOTE 3	3/4	15	14.2	120/1	60	58	96	15	3.9	29	26	30	18.1	230/1	59SP5A080E17-16	CNPVP4217ALA	25HBC536A003

FURNACE AND AIR SOURCE HEAT PUMP SCHEDULE NOTES:

- 1. HEATING CAPACITIES BASED ON 47°F D.B. / 43°F W.B. AND 70°F D.B. RETURN AIR.
- 2. COOLING CAPACITIES BASED ON 95°F AMBIENT AIR AND 80°F D.B./67°F W.B. RETURN AIR.
- 3. FRESH AIR FOR ALL LIVING UNITS SERVED BY BLOWER COILS WILL BE ACHIEVED THROUGH OPERABLE WINDOWS.
- 4. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT WITH "ON-OFF-HEAT-COOL-AUTO" SYSTEM SETTINGS, SEE SPECIFICATIONS FOR ALL OTHER REQUIREMENTS. 5. ALL HEAT PUMPS SHALL BE PROVIDED WITH HAIL GUARDS AND LONG LINE REFRIGERATION KIT AS RECOMMENDED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
- 6. BLOWER COILS SHALL HAVE SHUTDOWN SWITCH TIED INTO SMOKE DETECTORS.
- 7. LOW VOLTAGE CONTROLS BY THIS CONTRACTOR. PROVIDE LOW VOLTAGE WIRING AND TRANSFORMERS PER MANUFACTURES RECOMMENDATIONS AND SIZED FOR THE APPROPRIATE VOLTAGE DROP PER THE NEC.

		PLUMBING FIXTURE SCHEDULE				
MARK	FUNCTION	MANUFACTURER AND MODEL (OR EQUAL)	WASTE	VENT	CW	HW
BT-1	ватнтив	COMFORT DESIGNS MODEL 6032TS, 60" X 32-1/4"" X 77-1/2" TUB/SHOWER, GELCOAT FINISH, GRIPSURE TEXTURED FLOOR, SMOOTH WALL FINISH, PROVIDE FULL WOOD BACKING. PROVIDE AMERICAN STANDARD MODEL T064.508 SERIN PRESSURE BALANCE BATH/SHOWER FITTING WITH FLOWISE SHOWERHEAD, CHROME FINISH, 2.0 GPM, PROVIDE AMERICAN STANDARD R110SS PRESSURE BALANCE ROUGH VALVE BODY ONLY WITH SCREWDRIVER STOPS. PROVIDE WITH CURVED CURTAIN ROD. TUB SHALL HAVE NO GRAB BAR OR SEAT INSTALLED.	1-1/2"	1-1/2"	1/2"	1/2"
CL-1	COUNTER LAVATORY	KOHLER MODEL K-2882, VERTICYL UNDER-MOUNT BATHROOM SINK, 19" X 15" X 6-3/4", VITREOUS CHINA, WITH OVER FLOW. PROVIDE AMERICAN STANDARD FAUCET MODEL 2064.101 SERIN SINGLE CONTROL MONOBLOC, CHROME FINISH, SINGLE HANDLE, .5 GPM, POP-UP DRAIN.	1-1/4"	1-1/4"	1/2"	1/2"
CO-1	WALL CLEANOUT	JAY R. SMITH 4472-PC CAST BRONZE TAPER THREAD PLUG WITH STAINLESS STEEL ROUND COVER AND PRIME COATED STEEL COVER FOR FIELD PAINTING. COORDINATE PAINTING WITH GENERAL CONTRACTOR.	SEE PLAN FOR SIZE	-	-	-
CW-1	CLOTHES WASHER	GUY GRAY MODEL B200 ROUGH-IN BOX, WITH VALVES AND FITTINGS FOR 2" DRAIN.	2"	2"	3/4"	3/4"
FD-1	FLOOR DRAIN	JAY R. SMITH MODEL 2005, ROUND TOP, DUCO CAST IRON BODY WITH FLASHING COLLAR, ADJUSTABLE STRAINER HEAD, NICKEL BRONZE STRAINER. TOP OF DRAIN SHALL BE 1/2" LOWER THAN SURROUNDING FLOOR ELEVATION TO ALLOW PROPER DRAINAGE. COORDINATE WITH ARCHITECTURAL FLOOR SLOPING PLANS.	SEE PLAN FOR SIZE	SEE PLAN FOR SIZE	-	-
HB-1	HOSE BIBB	WOODFORD MODEL 24, ANTI-SIPHION WALL FACUET, VACUUM BREAKER PROTECTED.	-	-	3/4"	-
IMB-1	ICE MAKER BOX	GUY GRAY MODEL BIM875, METAL ICE MAKER BOX.	-	-	1/4"	-
KS-1	KITCHEN SINK	ELKAY MODEL ELUH3116PD, 31-3/4" X 16-1/2"X 7-1/2", 18 GAUGE STAINLESS STEEL UNDERMOUNT SINK WITH SOUND GUARD, DEADENED UNDERCOAT. PROVIDE GROHE CONCETTO MODEL 32665, SINGLE LEVER SINK MIXER, PULL-DOWN, CHROME FINISH, SINGLE HOLE INSTALLATION, SWIVEL SPOUT, 1.75 GPM.PROVIDE GD-1.	1-1/2"	1-1/2"	1/2"	1/2"
WC-1	WATER CLOSET	KOHLER MODEL K-3978 WELLWORTH TANK TYPE, RIM HEIGHT 14-1/2", ELONGATED FRONT, CLASS FIVE FLUSHING SYSTEM, 1.6 GPF. PROVIDE KOHLER SEAT MODEL K-4688.	4"	2"	1/2"	-



G. Change waste size for KS-1 to 2" on Plumbing Fixture Schedule.





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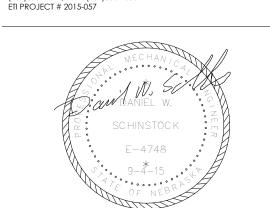
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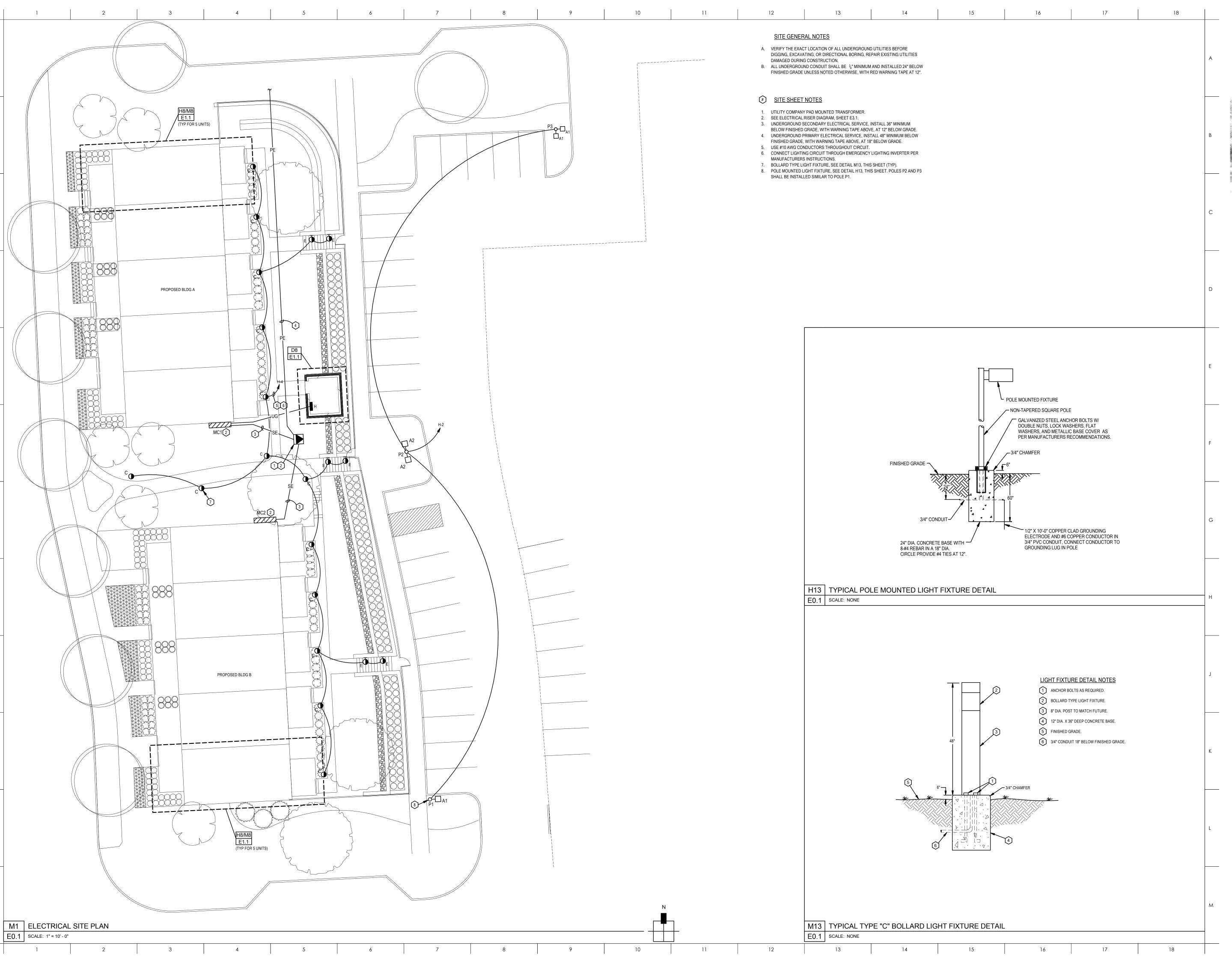
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MECHANICAL SCHEDULES AND SYMBOLS





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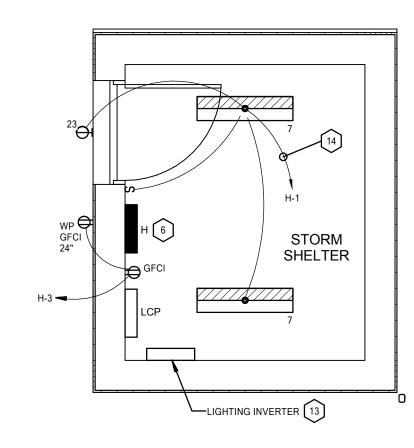
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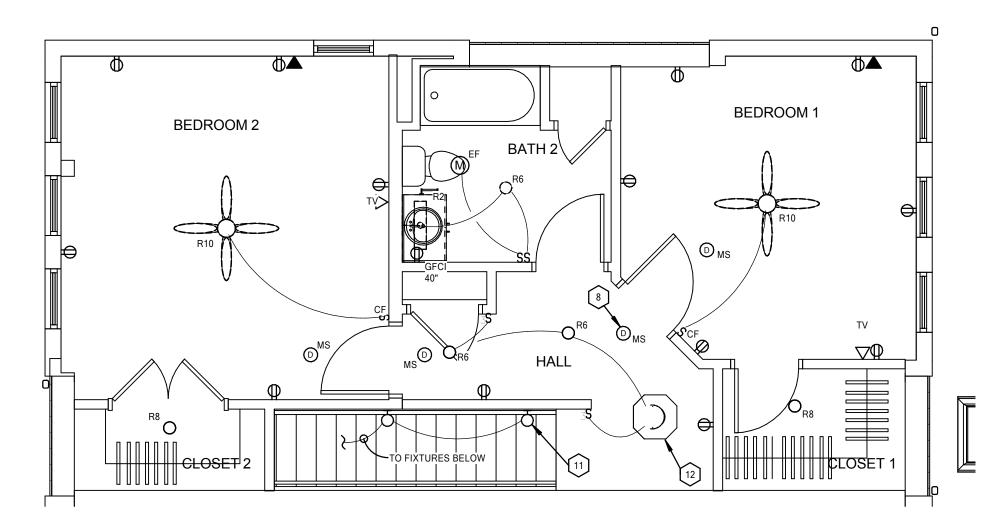
ELECTRICAL SITE PLAN

DATE



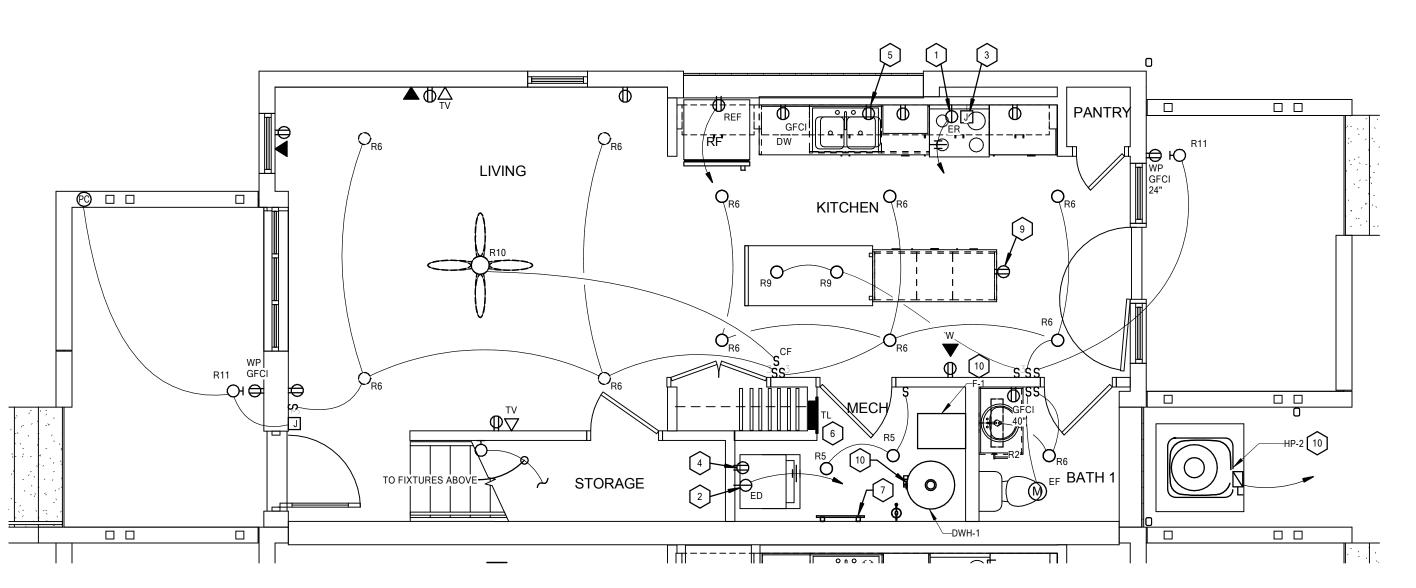
D8 STORM SHELTER ELECTRICAL PLAN

E1.1 | SCALE: 1/4" = 1'-0"



H8 LEVEL 2 - UNIT A ELECTRICAL PLAN

E1.1 SCALE: 1/4" = 1'-0"



M8 LEVEL 1 - UNIT A ELECTRICAL PLAN

E1.1 | SCALE: 1/4" = 1'-0"

GENERAL NOTES

- A. PROVIDE AFCI BREAKERS FOR ALL 15- AND 20-AMP BRANCH CIRCUITS SUPPLYING DWELLING UNITS PER NEC 210.12(A).
- B. PROVIDE GFCI BREAKERS WHERE REQUIRED FOR NON-ACCESSIBLE RECEPTACLES.
- C. PROVIDE A GREEN INSULATED GROUND WIRE IN ALL LIGHTING AND POWER BRANCH
- D. ALL KITCHEN RECEPTACLES SHALL BE GFCI TYPE PER NEC 210.8.
- ALL RECEPTACLES WITHIN 6'-0" OF WATER SHALL BE GFCI TYPE PER OMAHA MUNICIPAL CODE 44-175.
- F. VERIFY RECEPTACLE MOUNTING HEIGHTS WITH FINAL XASEWORK AND UNIT FINISH DRAWINGS.
- G. MINIMUM SIZE FOR BRANCH CIRCUIT WIRING SHALL BE #12 AWG FOR 20 AMP CIRCUITS AND #14 FOR 15 AMP CIRCUITS.
- H. UNITS INDICATED ARE TYPICAL. COORDINATE RECEPTACLES LOCATIONS WITH ACTUAL FIELD MEASUREMENTS TO COMPLY WITH NEC SPACING REQUIREMENTS. VERIFY KITCHEN APPLIANCE LOCATIONS WITH OWNER AND ADJUST ACCORDINGLY.
- I. CONNECT ALL KITCHEN COUNTERROP RECEPTACLES BETWEEN NOT FEWER THAN TWO SMALL APPLIANCE BRANCH CIRCUITS PER NEC 210.52, AND DIVIDED EQUALLY PER OMAHA MUNICIPAL CODE 44-173.
- J. JUNCTION BOXES INSTALLED IN BEDROOM CEILING FOR LUMINAIRES OR IN ANY OTHER CEILING FOR FANS SHALL BE FAN RATED PER OMAHA MUNICIPAL CODE 44-173. PROVIDE 3 CONDUCTORS TO SWITCH FOR FUTURE FAN CONTROL.
- K. WIRING IN MECHANICAL ROOMS SHALL BE INSTALLED IN EMT CONDUIT WHERE EXPOSED. ROOM IS CONSIDERED A PLENUM.
- L. ALL BATHROOM RECEPTACLES SHALL BE GFCI TYPE AND SHALL BE WIRED PER NEC
- M. ALL LAUNDRY CIRCUITS SHALL BE WIRED PER NEC 210.11(C)(2).

N. PROVIDE TAMPER RESISTANT RECEPTACLES IN ALL UNITS IN ACCORDANCE WITH THE NEC.

SHEET NOTES

- RANGE OUTLET, NEMA 14-50R. PROVIDE MATCHING CORD AND PLUG. USE #8 AWG CONDUCTORS (MINIMUM) AND 40A/2P BREAKER.
- 2 DRYER OUTLET, NEMA 14-30R. PROVIDE MATCHING CORD AND PLUG. USE #10 AWG CONDUCTORS AND 30A/2P BREAKER.
- 3 MICROWAVE/RANGEHOOD OUTLET OR J-BOX ABOVE.
- 4 WASHING MACHINE OUTLET.
- 5 DISHWASHER OUTLET BELOW SINK, MAKE FINAL CONNECTIONS TO EQUIPMENT.
- 6 SEE ELECTRICAL RISER DIAGRAM, SHEET E3.1.
- 7 2' X 2' TELECOM BOARD.
- 8 INTERLOCK ALL SMOKE DETECTORS IN UNIT PER THE NFPA. WIRE TO SHUTDOWN BLOWER COIL UNIT, WHEN SMOKE IS DETECTED (TYPICAL ALL UNITS).
- 9 OUTLET IN ISLAND CABINET, COORDINATE LOCATION WITH CABINET INSTALLER. INSTALL VERTICALLY OR HORIZONTALLY, AS REQUIRED.
- 10 SEE EQUIPMENT CONNECTION SCHEDULE SHEET E2.1.
- 11 LED NIGHT LIGHT, LEGRAND MODEL NTLFULLWCC6 (TYP).

MANUFACTURERS INSTRUCTIONS.

- 12 SWITCH INTERNAL LED LIGHTING WITH HALLWAY LIGHTING.
- 13 EMERGENCY LIGHTING INVERTER, DUAL-LITE #DLS-1500-120-A-20-02.

14 CONNECT LIGHTING CIRCUIT THROUGH EMERGENCY LIGHTING INVERTER PER

HIGHLANDER TOWNHOMES

30TH AND PATRICK OMAHA NE 68111

THE



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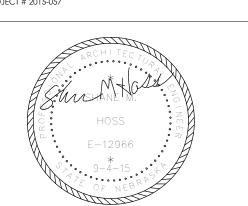
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TYPICAL UNIT ELECTRICAL PLANS

	INTER	રાଠ	R LIGHT FI	XTURE SCHED	ULE			
TYPE	DESCRIPTION	NO.	LAMP TYPE	MOUNTING	MANUFACTURER	CATALOG NUMBER	ACCEPTABLE MANUFACTURERS	NOTES
7	4' LED LINEAR STRIP, 5000 LM, WHITE FINISH	-	LED 40W 3000K	CHAIN	LITHONIA	ZL1N-L48-5000LM-FST-MVOLT-30K-80CRI-WH-HC	METALUX, HUBBELL	-
23	EXTERIOR LED WALL FIXTURE, PHOTOCELL CONTROL, BLACK FINISH	-	LED 25W 3000K	WALL	LITHONIA	WST LED-1-10A700/30K-SR4-MVOLT-PE-ELCW-DBLXD	-	-

NOTES:

1. NOT ALL FIXTURES ARE USED ON THIS PROJECT.

PROVIDE BALLAST DISCONNECT ON ALL FLUORESCENT FIXTURES, PER NEC REQUIREMENTS.
 PROVIDE ALL CONNECTORS, DRIVERS, END CAPS, ETC. FOR A COMPLETE AND FUNCTIONAL SYSTEM.
 FIXTURE NUMBERS ARE INTENTIONALLY INCLUDED IF UNUSED ON THIS PROJECT.

	EXT	ΓERIC	R LIGHT F	IXTURE SCHE	DULE			
TYPE	DESCRIPTION	NO.	LAMP TYPE	MOUNTING	MANUFACTURER	CATALOG NUMBER	ACCEPTABLE MANUFACTURERS	NOTES
A1	AREA LIGHT, TYPE III DISTRIBUTION, FINISH TO BE SELECTED BY ARCHITECT	-	LED 50W 3000K	POLE	KIM LIGHTING	ALT3P70-60L-3K-120-FINISH-SF		-
A2	AREA LIGHT, TYPE IV DISTRIBUTION, FINISH TO BE SELECTED BY ARCHITECT	-	LED 50W 3000K	POLE	KIM LIGHTING	ALT4P70-60L-3K-120-FINISH-SF		-
С	EXTERIOR BOLLARD, FINISH TO BE SELECTED BY ARCHITECT	-	LED 50W 3000K	BOLLARD	KIM LIGHTING	BNB1-36L-3K-UV-FINISH-SF		-
E	LED STEP LIGHT, FINISH TO BE SELECTED BY ARCHITECT		LED 5.3W 3000K	WALL	KIM LIGHTING	EL807/ELEKUV-FINISH		-
P1	1-HEAD MOUNTING POLE, 25 FT SQUARE TAPERED, FINISH TO BE SELECTED BY ARCHITECT	-	-	-	-	-		-
P2	2-HEADS, 180° MOUNTING POLE, 25 FT SQUARE TAPERED, FINISH TO BE SELECTED BY ARCHITECT	-	-	-	-	-	-	-
P3	2-HEADS, 90° MOUNTING POLE, 25 FT SQUARE TAPERED, FINISH TO BE SELECTED BY ARCHITECT	-	-	-	-	-	-	-

	RES	SIDENT	TAL LIGHT	FIXTURE SCH	EDULE			
TYPE	DESCRIPTION	NO.	LAMP TYPE	MOUNTING	MANUFACTURER	CATALOG NUMBER	ACCEPTABLE MANUFACTURERS	NOTES
R1	13" LED LOW CEILING FIXTURE, FLUSH MOUNT, BRUSHED STEEL FINISH	-	LED 15W 3000K	SURFACE	ACCESS LIGHTING	20625LEDD-BS		-
R2	24" BATHROOM VANITY, BRUSHED NICKEL FINISH	2	F14T5 IN CROSS SECTION	WALL	LITHONIA	11802RET5-BN		-
R3	LOW PROFILE LED DOWNLIGHT, SURFACE MOUNTED, WHITE FINISH, SHOWER RATED	-	LED 15W 3000K	SURFACE	HALO	SLD606-8-30-WH-JB		-
R4	15" LED CEILING FIXTURE, FLUSH MOUNT, BRUSHED STEEL FINISH	-	LED 30W 3000K	SURFACE	ACCESS LIGHTING	20626LEDD-BS		-
R5	PORCELAIN LAMP HOLDER, KEYLESS	1	LED A19 3000K	SURFACE	PASS & SEYMOUR	272	LEVITON, COOPER, GE	-
R6	RECESSED 6" DOWNLIGHT, IC RATED, WHITE BAFFLE, WHITE TRIM	1	LED BR30 3000K	RECESSED	ELITE LIGHTING	B61C-AT-W-AFG37-W-WH	HALO	-
R7	LED STEP LIGHT, BRUSHED NICKEL FINISH, OPAL LENS	-	LED 3W 3000K	WALL	BRUCK	138-022-1-BN-F		-
R8	FLUORESCENT LAMP HOLDER, LAMP GUARD, INTEGRAL OCCUPANCY SENSOR	1	CFL 13W 2700K	SURFACE	LEVITON	001-9863-OCC		-
R9	DECORATIVE PENDANT, WHITE ACRYLIC SHADE, BRUSHED NICKEL FINISH	1	LED A19 3000K	PENDANT	PREGRESS LIGHITNG	P5036-09		-
R10	52" CEILING FAN, CFL LAMP, WHITE FINISH	1	CFL 18W 3000K	SURFACE	HUNTER FAN	59073		-
R11	EXTERIOR LED WALL FIXTURE, BRONZE FINISH	-	LED 20W 3000K	WALL	LUMIERE	303-W1-LEDB1-3000-UNV-T2-DIMELV-BZ		-

				PAN	IEL	SCH	EDI	JLE				
PANEL H		VOLTA	AGE	PHASE				10	KAIC RM	S	125 A	MAIN BREAKER
		120 /	240V	1Ø	3 WIR	E, SOLID I	NEUTR	AL				SURFACE MOUNTED
LOAD DESCRIPTION	LOA	AD.	BREA	AKER	NO.	PHASE	NO.	BRE	AKER	LC	DAC	LOAD DESCRIPTION
LUAD DESCRIPTION	VA	TYPE	POLES	AMPS	INO.	PHASE	INO.	AMPS	POLES	TYPE	VA	LUAD DESCRIPTION
SHELTER LIGHTING	300	L	1	20	1	Α	2	20	1	L	275	PARKING LOT LTG
SHELTER RECEPTS	500	R	1	20	3	В	4	20	1	L	800	PATH LIGHTING
SPACE ONLY	-	-	1	20	5	Α	6	20	1	S	1,000	SPARE
SPACE ONLY	-	-	1	20	7	В	8	20	1	S	1,000	SPARE
SPACE ONLY	-	-	1	20	9	Α	10	20	1	S	1,000	SPARE
SPACE ONLY		-	1	20	11	В	12	20	1	-	-	SPACE ONLY
SPACE ONLY	-	-	1	20	13	Α	14	20	1	-	-	SPACE ONLY
SPACE ONLY	-	-	1	20	15	В	16	20	1	-	-	SPACE ONLY
SPACE ONLY	-	-	1	20	17	Α	18	20	1	-	-	SPACE ONLY
		-	-						-			

 LOAD INFORMATION
 N

 TOTAL CONNECTED LOAD
 5
 20

 EST. MAX DEMAND
 4
 17

OADCENTER TL (TYPICAL)				TER S	, 			405 4 144111 DDE-11755
DADCENTER IL (TYPICAL)	VOLTAGE	PHASE					KAIC RMS	
	120 / 240V	1Ø	3 WIR	E, SOLID I	NEUTR	AL		FLUSH MOUNTED
LOAD DESCRIPTION	BRE	AKER	NO.	PHASE	NO.	BRE	AKER	LOAD DESCRIPTION
LOAD DESCRIPTION	POLES	AMPS	INO.	FIIASE	NO.	AMPS	POLES	LOAD DESCRIFTION
KITCHEN	1	20	1	Α	2	15	1	KITCHEN/LIVING LTG
KITCHEN	1	20	3	В	4	15	1	LIVING ROOM RECEPTACLES
BEDROOM	1	15	5	Α	6	20	1	BATHROOM
BEDROOM	1	15	7	В	8	20	1	SPARE
REFRIGERATOR	1	20	9	Α	10	20	1	DISHWASHER
SPARE	1	20	11	В	12	20	1	LAUNDRY
SPARE	1	15	13	Α	14	20	1	SPACE ONLY
SPARE	1	15	15	В	16	20	1	SPACE ONLY
SPARE	1	15	17	Α	18	20	1	SPACE ONLY
DWH-1	1	20	19	В	20	20	1	SPACE ONLY
FURNACE	1	20	21	Α	22	20	1	SPACE ONLY
SPARE	1	20	23	В	24	40	2	ELECTRIC RANGE
SPARE	1	20	25	Α	26	-	-	
HEAT PUMP	2	35	27	В	28	30	2	DRYER
-	-	-	29	Α	30	-	I - I	-

1. TYPICAL UNIT LOADCENTER, DESIGNATION SHALL BE UNIT TL###, WITH ### = UNIT NUMBER.

2. PROVIDE AFCI TYPE BREAKERS AS REQUIRED BY NEC.

1. PROVIDE VOLTAGE SEPARATION AND CONTACTOR AS REQUIRED.

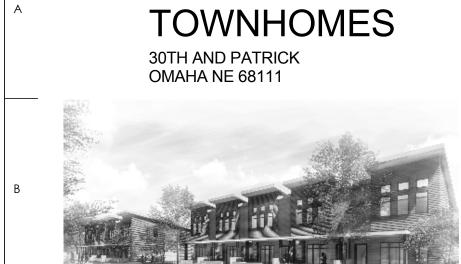
PC=PHOTOCELL, LVS=LOW VOLTAGE SWITCH

2. LIGHTS TO BE CONNECTED TO TWO CIRCUITS THRU EMERGENCY LIGHTING CONTROL UNIT.
3. OC=OCCUPANCY SENSOR, CS=CONTROL STATION, TC=TIME CLOCK, SM=MOMENTARY SWITCH

		LIGHT	NG CO	NTROL PAI	NEL SCHEDULE
			PANEL "LO	CP": SURFACE MOUN	TED, 8 RELAY
RELAY NO.	CIRCUIT NO.	CONTROLLED BY	LOAD (WATTS)	VOLTS/PHASE	DESCRIPTION
1	H-2	PC ON/OFF	300	120/1	PARKING LOT LIGHTING
2	H-4	PC ON/OFF	1000	120/1	PATHWAY LIGHTING
3	-	PC ON/OFF	1200	120/1	SPARE
4	-	PC ON/OFF	1200	120/1	SPARE
5	-	PC ON/OFF	1200	120/1	SPARE
6	-	-	-	-	SPACE ONLY
7	-	-	-	-	SPACE ONLY
8	-	-	-	-	SPACE ONLY

METER (CENTER MC1	VO	LTAGE	PHASE	65 KAIC RMS						400A	MAIN LUGS
EST. MA	X DEMAND 0 KVA	120	/ 240V	1Ø	3 WIRE,	SOLID	NEUTRAL				SE	ERVES: NORTH
CKT.	SERVES	LOAD	SOCKET	BREAKER	COI	NDUCT	ORS	GND	CONI	DUIT		REMARKS
NO.	SERVES	(KVA)	SIZE	AMP/POLE	NO.	SIZE	TYPE	SIZE	NO.	SIZE		REIVIARNO
1	HOUSE PANEL	-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	
2	TYPICAL UNIT	-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	
3	TYPICAL UNIT	-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	
4	TYPICAL UNIT	-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	
5	TYPICAL UNIT	-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	
6	TYPICAL UNIT	-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	

METER	CENTER	MC2	VO	LTAGE	PHASE	6			KAIC RI	/IS		400A MAIN	1 I
EST. MA	X DEMAND	0 KVA	120	/ 240V	1Ø	3 WIRE, SOLID NEUTRAL						SERVES	: :
CKT.	SER'	VEC	LOAD	SOCKET	BREAKER	COI	NDUCT	ORS	GND	CON	DUIT	REM	
NO.	SER	VES	(KVA)	SIZE	AMP/POLE	NO.	SIZE	TYPE	SIZE	NO.	SIZE	KEIV	IAL
1	TYPICAL UNIT		-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	
2	TYPICAL UNIT		-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	
3	TYPICAL UNIT		-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	
4	TYPICAL UNIT		-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	
5	TYPICAL UNIT		-	125	125/2	3	#1	THWN	#6	1	1 1/4"	-	



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REVISION
PROJECT NUMBER: 15051-2

DATE: September 4, 2015

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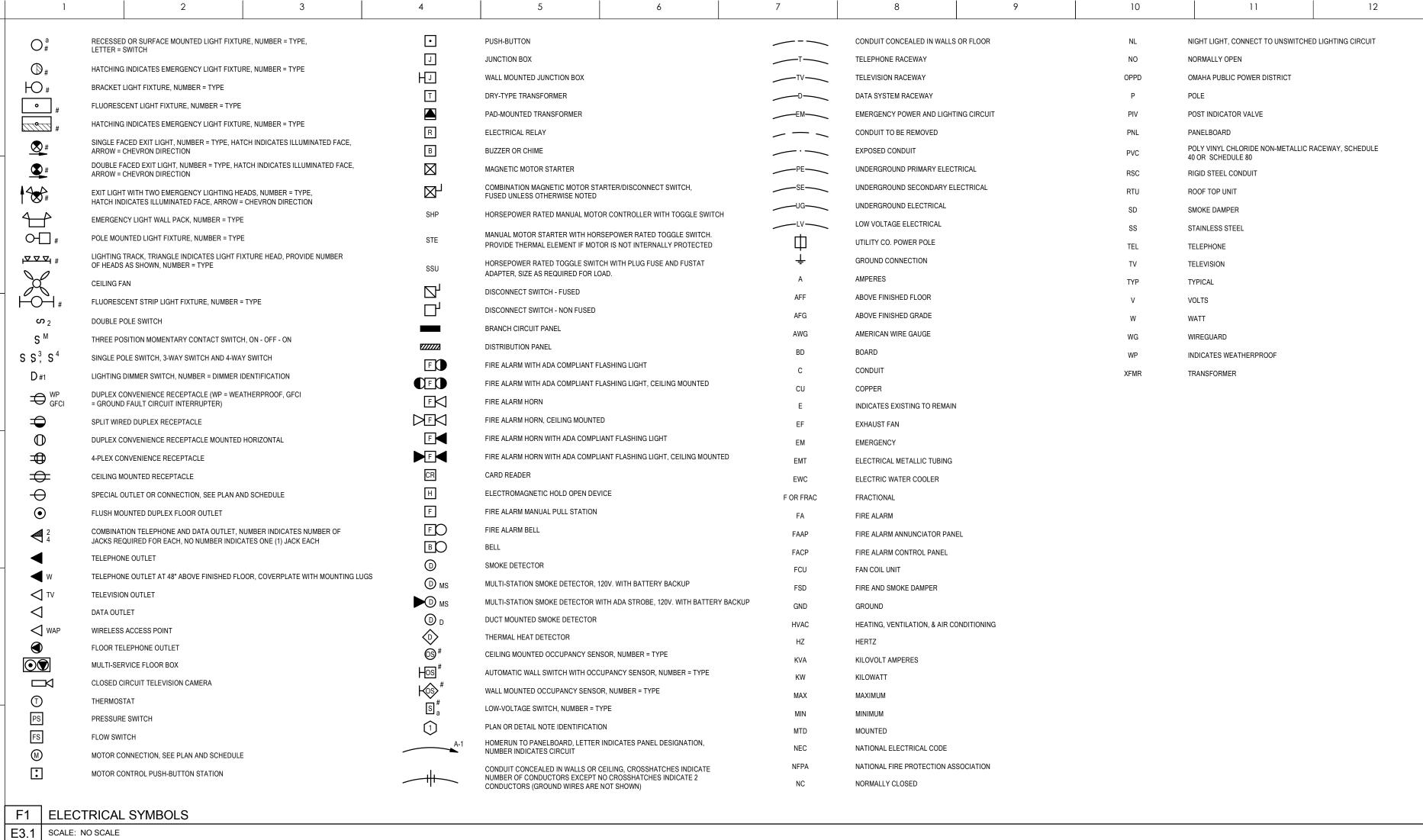
DATE

ELECTRICAL SCHEDLUES

E2.1

	EQUIPMENT CONNECTION SCHEDULE													
EQUIP.	DESCRIPTION	KW	HP	VOLTS	PHASE	WIRING	DISCONNECT SWITCH	MOTOR STARTER	CONNECTION	REMARKS				
DWH-1, 2	DOMESTIC WATER HEATER	-	-	120	1Ø	2#12 & #12 GND 1/2" CONDUIT	SHP	-	DIRECT					
EF-1	EXHAUST FAN	-	-	120	1Ø	2#12 & #12 GND 1/2" CONDUIT	INTEGRAL	WALL SWITCH	DIRECT					
F-1	FURNACE	-	3/4	120	1Ø	2#12 & #12 GND 1/2" CONDUIT	SHP	-	DIRECT	-				
HP-1	HEAT PUMP	-	-	240	1Ø	2#8 & #10 GND 3/4" CONDUIT	60A FUSED NEMA 3R	-	DIRECT	-				

ALL LOW VOLTAGE HVAC CONTROL WIRING SHALL BE BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
 ALL EXHAUST FANS ARE FURNISHED WITH AN INTEGRAL DISCONNECTING MEANS, UNLESS NOTED OTHERWISE.



RISER DIAGRAM GENERAL NOTES

A. ALL UTILITY REQUIREMENTS SHALL BE COORDINATED WITH OPPD PRIOR TO BEGINNING WORK.

RISER DIAGRAM NOTES

SEE TRANSFORMER PAD DETAIL G13, THIS SHEET.

SEE ASSOCIATED METER CENTER SCHEDULE, SHEET E2.1.
 UNDERGROUND SECONDARY ELECTRICAL SERVICE, 3-350 MCM AWG CONDUCTORS, IN 3"

CONDUIT.
4. SEE ASSOCIATED PANEL SCHEDULE, SHEE E2.1 (TYP).

 5/8" X 10'-0" COPPER CLAD GROUND RODS SPACED EQUILATERALLY ON 10'-0" CENTERS, WITH #6 AWG GND., IN 3/4" CONDUIT.

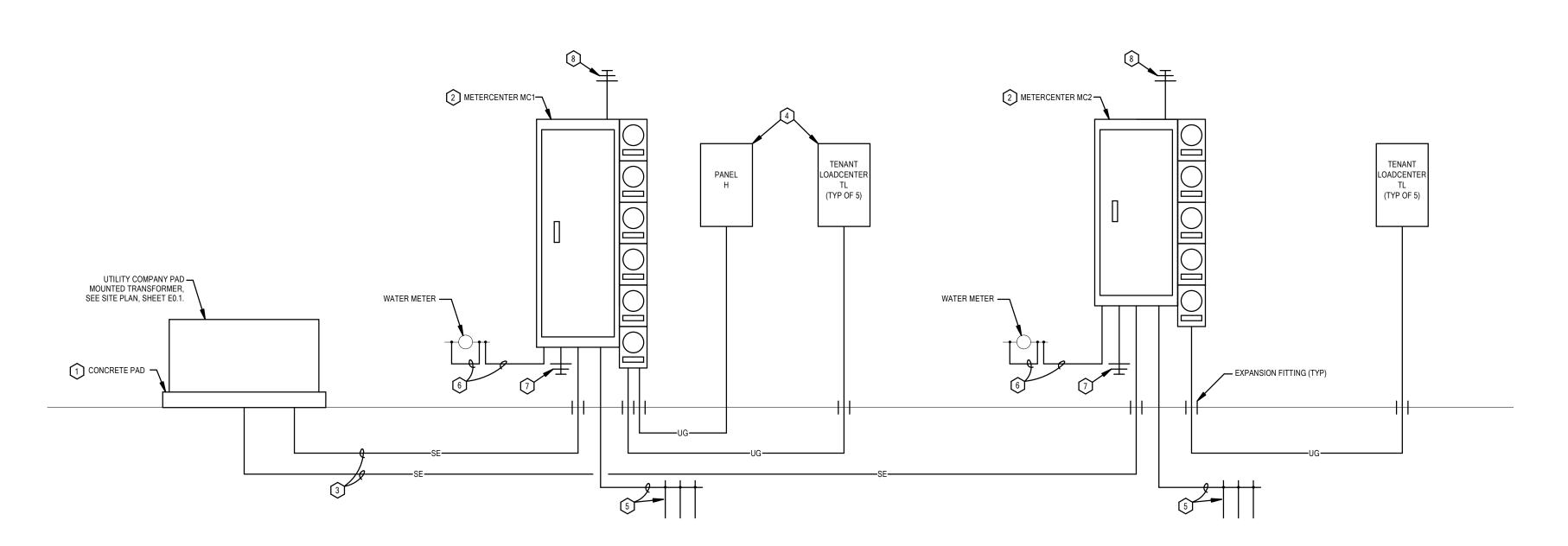
BOND TO STREET SIDE OF METALLIC WATER SERVICE(S) WITH A #2 AWG GND IN 3/4" CONDUIT.
 BOND AROUND WATER METER IN ACCORDANCE WITH THE NEC.

BOND AROUND WATER METER IN ACCORDANCE WITH THE NEC.

7. UFER GROUND, AS REQUIRED BY THE NEC, #4 AWG CONDUCTOR IN 3/4" CONDUIT TO

REINFORCING REBAR.

8. BOND TO STRUCTURAL STEEL (IF AVAILABLE) WITH A #2 AWG CONDUCTOR, IN 3/4" CONDUIT.



M1 ELECTRICAL RISER DIAGRAM

E3.1 SCALE: NO SCALE

10 PADMOUNT TRANSFORMER SLAB DETAIL 32 LOW PROFILE-TYPE, 25KVA TO 167KVA PRIMARY CARLS CONDUIT(S) 4" HON-METALLIC SCHEDULE 40 SECONDARY CONDUIT FINISHED GRADE WITH 90° 36" EADIUS BEND(5). MAXIMUM 5" SIZE MAXIMUM 4 CONDUITS MAXIMUM 4 SETS OF BOTTOM OF HOLES SHALL EDGE OF BUILDING BE EXCAVATED TO CLEAN POSITION CONDUIT LEVEL SURFACE OF AT REAR OF SLAB UNDISTURBED MATERIAL INSTALL PIERS TO UNDISTURBED EARTH. BY CUSTOMER. 58" X 8' GROUND TOP ELEVATION OF AND INSTALLED MEES TO BE AT BY OPPD. 3'-4" X 4'-0" SLAB FURNISHED AND INSTALLED THE TOP ONE IT! FOOT OF SUBGRADE BENEATH THE SLAB SHALL BE THOROUGHLY COMPACTED TO 90% OF MAXIMUM DONSITY PER ASTIN DASS. AREA WITHIN PROTECTION PIPES MUST REMAIN CLEAR FOR OPENING BENEATH THE SLAB IS SUSCEPTIBLE TO A HIGH OF TRANSFORMER DOORS AND WATER TABLE OR PERIODIC SATURATION, THE EXISTING SOIL SHALL BE EXCAVATED AND BACKFULED WITH A CLEAN SAND OR GRAVEL AND THOROUGHLY COMPACTED TO 90% OF MAXIMUM DENSITY PER ASTM MINIMUM 4" IRON PROTECTION D2049 AND D1554. PIPES TO BE SET 3'-4" ABOVE AND 3'-4" BELOW GRADE, SIT NO WALLS TO BE BUILT AROUND OR CANOMES IN CONCEPTE CAP PIPE A 6" "I" BEAM BAY BE SUBSTITUTED CUSTOMER TO FURNISH ALL MATERIAL, EXCEPT ALL MATERIAL FURNISHED BY THE CUSTOMER SHALL EQUAL OR EXCEED THE STANDARDS AS SPECIFIED IN THE "NATIONAL ELECTRICAL OPPO TO INSPECT SITE INSPECTION WILL INCLUDE LOCATION AND DIPTH ALL CUSTOMER INSTALLED CONDUITS TO BE OF HOLES FOR SUPPORT PIERS RODDED AND PROVEH CLEAR AND A JET (IF REQUIRED), COMBUIT PLACEMENT, LINE TO BE LEFT IN EACH CONDUIT. BACKFILL COMPACTION, AND OVERALL COMPACTION OF SLAB AREA. ALL CONDUITS ENTERING SLAB TO BE VERTICAL AND AT A 40° AMOLE WITH TOP CORRECT Spenistelle DATE 6-17-96 APPROVED

PE REVIEWED AND FILED: 6-17-96

DESIGN FILE: //mai/standard/geterspecs/ms032.dgn

G13 TRANSFORMER PAD DETAIL

DESIGN ENTRY BY: JULIA VICTOR

E3.1 NO SCALE

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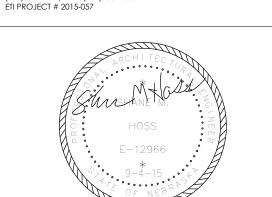
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ELECTRICAL SYMBOLS, DETAILS, AND

E3.1

RISER DIAGRAM