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BIDDERS BULLETIN

PROJECT: Brodstone Memorial Hospital
Specialty Clinic & PT Pool Additions
Superior, Nebraska

BULLETIN NUMBER

BB-1

ISSUED BY:

Grant Creager

PROJECT #: 15-1015

DATE ISSUED: April 4th, 2016

This bulletin is issued by the Architect to all known bidders before receipt of proposals, for the purpose of explaining, interpreting, or modifying the original plans and specifications. When enumerated by the bidder upon the proposal sheet, the information or instructions given hereon will be equally binding upon all parties as if included in the original plans and specifications.
BIDDER MUST ENTER THE NUMBER OF THIS BULLETIN ON HIS PROPOSAL SHEET

GENERAL INFORMATION

1. If you received you plans and specifications from A&D Technical Supplies, the demolition and floor plans are misplaced and do not follow the drawing index on the cover sheet or Schedule of Drawings in the specifications. These drawing sheets are after the A800 detail drawing sheets.

THE FOLLOWING ITEMS ARE APPLICABLE TO THE SPECIFICATIONS

BB-1, ITEM #1: Substitutions

The following products and manufacturers will be considered approved equal for the products in which they are listed below. However, this does not relieve the supplier from providing equipment as specified, and if equipment is submitted which does not meet the intent of the specifications, it will in fact be rejected.

Aluminum Window Frames	Manko Window 4527i Series
Closers	LCN
Exits	Von Duprin
Hinges & Flatgoods	Ives
Resilient Flooring	Burke Mercer 4" Cove Base
Athletic Surfacing	Tarkett Omnisports 6.5 MM – This is the preferred flooring for this project

BB-1, Item #2: In reference to Section 02441, Underground Sprinkler Report

Delete reference to this section listed in the Table of Contents.

BB-1, Item #3: In reference to Section 02485, Lawn and Grass

Delete reference to this section listed in the Table of Contents.

BB-1, Item #4: In reference to Section 02490, Trees, Shrubs and Ground Cover

Delete reference to this section listed in the Table of Contents.

BB-1, Item #5: In reference to Section 05500, Metal Fabrication

Add this section in its entirety. See Attached

BB-1, Item #6: In reference to Section 08620, Clear Sky Glass Skylight System

Delete reference to this section listed in the Table of Contents.

BB-1, Item #7: In reference to Section 08621, Canopy Skylight System

Delete reference to this section listed in the Table of Contents.

BB-1, Item #8: In reference to Section 08622, Insulated Skylight System

Delete reference to this section listed in the Table of Contents.

BB-1, Item #9: In reference to Section 08700, Finish Hardware

Door A219 needs to have door closer 351 O EN SA added to it.

BB-1, Item #9: In reference to Section 09000, Material Legend

Paint listed in this section is listed as P- and paint listed on the Room Finish Schedule on drawing sheet A1002 is listed as PT-. Add two paints to the paint section:

P-11, Sherwin Williams, SW7032 Warm Stone
P-12, Sherwin Williams, SW6020 Marooned

Make the following changes for Resilient Flooring:

LVT-1 Luxury Vinyl Tile (Field)
FloorFolio
Stone, Group 2 - 18" x 18"
1818-722 w/ ~~EnviroQuiet~~ in all spaces except at elevator floor

Use "**EnviroQuiet Healthcare**" in lieu of "EnvriQuiet"

Add the following for Carpeting:

CPT-6 Carpet (Modular Walk-off Tile)
Shaw Contract
Welcome II/
Color to be selected from manufactures standards
Installed Monolithic

BB-1, Item #11: In reference to Section 09950, Resinous Flooring

Add this section in its entirety. See Attached.

BB-1, Item #12: In reference to Section 09510, Acoustical Ceiling

2x2 Certainteed Performa ceiling tile is to be Symphony f.

BB-1, Item #13: In reference to Section 23000, Security – Access Control (listed at this location in lieu of the electrical portion of this addendum)

Provide card reader HID Proxpro with Keypad 5355 proxy reader at the following doors; A111, A116, A131a, A208, A216, A222a, D111 & in the elevator cab. Provide _____ timer system in the elevator cab. See electrical plans for power at these locations.

THE FOLLOWING ITEMS ARE APPLICABLE TO THE DRAWINGS:

BB-1, Item #13; Title Drawing Sheets

*Change the title of the following Civil Sheets to read.

C100 – Existing Site Plan - in lieu of Existing Site Plan & Site Demolition Plan
C101 – Overall Site Demolition Plan - in lieu of Specialty Clinic Addition Site Plan
C102 – Specialty Clinic Addition Site Plan & Details – in lieu of PT Addition Site Plan
C103 – PT Addition Site Plan – in lieu of PT Addition Grading Plan

BB-1, Item #14; Civil Drawing Sheets

*Add the following Civil Sheets in their entirety.

C100 – Existing Site Plan
C101 – Overall Site Demolition Plan
C102 – Specialty Clinic Addition Site Plan & Details
C103 – PT Addition Site Plan

BB-1, Item #15; Drawing Sheet A1021 – Wall Types & Elevations

*Note on windows W4 & W5 need changed from EFCO FX45 to EFCO 450X with integral blinds.

*Add window type W8 elevation. See attached drawing A1021a

BB-1, Item #16; Drawing Sheet A1022 – Room Finish Schedule

*The following are additional accent walls on the project or modifications of accent wall already listed:

Office A005, Add accent wall P-5 to the south wall
Conference A015, Add accent wall P-5 to the north wall
Doctors Room A104, Add accent wall P-11, SW7032 Warm Stone to the north wall
Doctors Room A109, Add accent wall P-11, SW7032 Warm Stone to the west wall
Doctors Room A120, Add accent wall P-11, SW7032 Warm Stone to the north wall
Exam A126, Exam A127 & Wound Exam A, Change south accent wall to P-12, SW6020 Marooned in lieu of P-8
PFT A202, Add accent wall P-7 to the north wall
Rehab A203, Add accent wall P-7 to the north wall
Office A204, Add accent wall P-7 to the east wall
Office A205, Add accent wall P-7 to the south wall
EEG/Sleep Lab A209, Add accent wall P-7 to the north wall
Office A221, Add accent wall P-7 to south wall
Doctors Office B171 & B172, Change accent to P-11 on north walls in lieu of P-3 on east walls
Physical Therapy D102, Add accent walls to the east wall and both sides of the partition wall between the two columns on existing grid line 43. Color to be determined.

Treatment D106, Add accent wall to south wall. Color to be determined.
Treatment D112, Add accent wall to north wall. Color to be determined.
Treatment D115, Add accent wall to south wall. Color to be determined.
Treatment D117, Add accent wall to north wall. Color to be determined.

*Change the flooring in the following rooms:

All stairs treads and face to be VST-1, Vinyl Stair Tread & Face (as listed in the Material Legend) in lieu of RBT-1 & RBF-1. The Material Legend only has this product called out at the treads - add to the face/riser of stairs as well.

Stairs A001 is to be LVT-1 in lieu of concrete
Storage 1 A002, Storage 2 A003, Shelving A004 & Receiving A006 are to be sealed concrete in lieu of LVT-1
Office A005 is to be LVT-1 in lieu of carpet

BB-1, Item #17; Drawing Sheet S501 – Details

* Under DESIGN DATA + GENERAL NOTES, Special Inspections, Delete the last sentence of item 2 that states 'Inspectors shall be ICBO certified as a minimum requirement and approved by the BUILDING OFFICIAL.' This will not be enforced on this project.

END OF BB-1, See Attachments. Mechanical & Electrical comments attached separately.

SECTION 05500 – METAL FABRICATIONS

PART 1 – GENERAL

DESCRIPTION OF WORK

Definition: Metal fabrications includes items made from iron and steel shapes, plates, bars, strips, tubes, pipes and castings which are not a part of structural steel or other metal systems in other sections of these specifications.

Types of work in this section include metal fabrications for the following:

Rough hardware.
Ladders.
Loose steel lintels.
Miscellaneous framing and supports.
Miscellaneous steel trim.
Shelf angles.
Structural steel doorframes.
Steel gratings.
Steel railings.
Steel stairs.
Cast metal gratings, frames, and covers.
Pipe bollards.

Related Work Specified Elsewhere:

Structural Steel: Section 05120.

QUALITY ASSURANCE

Field Measurements: Take field measurements prior to preparations of shop drawings and fabrication, where possible. Do not delay job progress; allow for trimming and fitting wherever taking field measurements before fabrication might delay work.

Shop Assembly: Preassemble items in shop to greatest extent possible to minimize field splicing and assembly. Disassemble units only as necessary for shipping and handling limitations. Clearly mark units for reassembly and coordinated installation.

SUBMITTALS

Shop Drawings; Metal Fabrications: Submit shop drawings for fabrication and erection of miscellaneous metal fabrications. Include plans, elevations, and details of sections and connections. Show anchorage and accessory items. Provide templates for anchor and bolt installation by others.

Where materials or fabrications are indicated to comply with certain requirements for design loadings, include structural computations, material properties, and other in formation needed for structural analysis.

PART 2 – PRODUCTS

MATERIALS

Metals:

Metal Surfaces, General: For fabrication of miscellaneous metal work which will be exposed to view, use only materials which are smooth and free of surface blemishes including pitting, seam marks, roller marks, rolled trade names and roughness.

Steel Plates, Shapes and Bars: ASTM A 36.

Steel Bar Grating: ASTM A 569 or ASTM A 36.

Steel Tubing: Cold formed, ASTM A 500; or hot rolled, ASTM A 501.

Structural Steel Sheet: Hot-rolled, ASTM A 570; or cold-rolled ASTM A 611, Class 1; or grade required for design loading.

Galvanized Structural Steel Sheets: ASTM A 446, of grade required for design loading. Coating designation as indicated, or if not indicated, G90.

Gray-Iron Castings: ASTM A 48, Class 30.

Malleable Iron Castings: ASTM A 47, grade as selected by fabricator.

Raised Pattern Steel Floor Plate: FS QQ-F461, Class I.

Steel Pipe: ASTM A 53; type as selected; Grade A; black finish unless galvanizing is required; standard weight (Schedule 40), unless otherwise indicated.

Brackets, Flanges, and Anchors: Cost or formed metal of the same type material and finish as supported rails unless otherwise indicated.

Concrete Inserts: Threaded or wedge type, galvanized ferrous castings, either malleable iron ASTM A 47 or cast steel ASTM A 27. Provide bolts, washers and shims as required, hot-dip galvanized, ASTM A 153.

Grout:

Nonshrink Nonferrous Grout: CE CRD C621.

Fasteners:

General: Provide zinc-coated fasteners for exterior use or where built into exterior walls. Select fasteners for the type, grade and class required.

Bolts and Nuts: Regular hexagon head type, ASTM A 307, Grade A.

Lag Bolts: Square head type, FS FF-B-561.

Machine Screws: Cadmium plated steel, FS FF-S-92.

Wood Screws: Flat head carbon steel, FS FF-S-111.

Plain Washers: Round, carbon steel, FS FF-W-92.

Masonry Anchorage Devices: Expansion shields, FS FF-S-325.

Toggle Bolts: Tumble-wing type, FS FF-B-588, type, class and style as required.

Lock Washers: Helical spring type carbon steel, FS FF-W-84.

Paint:

Metal Primer Paint: Fabricator's standard alkyd or latex-type paint of the type recommended by manufacturer for the application shown.

Primer selected must be compatible with finish coats of paint.

Coordinate selection of metal primer with finish paint requirements specified in Division 9.

FABRICATION, GENERAL

Workmanship:

Use materials of size and thickness shown or, if not shown, of required size and thickness to produce strength and durability in finished product. Work to dimensions shown or accepted on shop drawings, using proven details of fabrication and support. Use type of materials shown or specified for various components of work.

Form exposed work true to line and level with accurate angles and surfaces and straight sharp edges. Ease exposed edges to a radius of approximately 1/32" unless otherwise shown. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

Weld corners and seams continuously, complying with AWS recommendations. At exposed connections, grind exposed welds smooth and flush to match and blend with adjoining surfaces.

Form exposed connections with hairline joints, flush and smooth, using concealed fasteners wherever possible. Use exposed fasteners of type shown, or if not shown, Phillips flat-head (countersunk) screws or bolts.

Provide for anchorage of type shown, coordinated with supporting structure. Fabricate and space anchoring devices to provide adequate support for intended use.

Cut, reinforce, drill and tap miscellaneous metal work as indicated to receive finish hardware and similar items.

Galvanizing: Provide a zinc coating for those items shown or specified to be galvanized, as follows:

ASTM A 153 for galvanizing iron and steel hardware.

ASTM A 123 for galvanizing rolled, pressed and forged steel shapes, plates, bars, and strip ⅛" thick and heavier.

ASTM A 380 for galvanizing assembled steel products.

Shop Painting: Shop paint miscellaneous metal work, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded, and galvanized surfaces, unless otherwise specified.

Remove scale, rust and other deleterious materials before applying shop coat. Clean off heavy rust and loose mills scale in accordance with SSPC SP-2 "Hand Tool Cleaning", or SSPC SP-3 "Power Tool Cleaning", or SSPC SP-7 "Brush-Off Blast Cleaning."

Remove oil, grease and similar contaminants in accordance with SSPC SP-1 "Solvent Cleaning".

Immediately after surface preparation, brush or spray on primer in accordance with manufacturer's instructions, and at a rate to provide uniform dry film thickness of 2.0 mils for each coat. Use painting methods which will result in full coverage of joints, corners, edges and exposed surfaces.

Apply one shop coat to fabricated metal items, except apply 2 coats or paint to surfaces inaccessible after assembly or erection. Change color of second coat to distinguish it from the first.

MISCELLANEOUS METAL FABRICATIONS

Rough-Hardware:

Furnish bent or otherwise custom fabricated bolts, plates, anchors, hangers, dowels and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring or securing woodwork to concrete or other structures. Straight bolts and other stock rough hardware items are specified in Division 6 sections.

Manufacture or fabricate items of sizes, shapes and dimensions required. Furnish malleable iron washers for heads and nuts which bear on wood structural connections; elsewhere, furnish steel washers.

Ladders:

Fabricate ladders for the locations shown, with dimensions, spacings details and anchorages as indicated. Comply with the requirements of ANSI Al4.3, except as otherwise indicated.

Unless otherwise shown, provide ½" x 2½" continuous structural steel flat bar side rails with eased edges, spaced 18" apart.

Provide ¾" diameter solid structural steel bar rungs, spaced 12" o.c.

Fit rungs in centerline of side rails, plug weld and grind smooth on outer rail faces.

Support each ladder at top and bottom and at intermediate points spaced not more than 5'-0" o.c. Use welded or bolted steel brackets designed for adequate support and anchorage, and to hold the ladder clear of

the wall surface with a minimum of 7" clearance from wall to centerline of rungs. Extend rails 42" above top rung and return rails to wall or structure unless other secure handholds are provided. If the adjacent structure does not extend above the top rung, goose-neck the extended rails back to the structure to provide secure ladder access.

Provide sloping ladders (ship's ladders) where indicated. Fabricate of open type construction with structural steel channel or steel plate stringers, pipe handrails, and open steel grating treads, unless otherwise indicated. Provide all necessary brackets and fittings for installation.

Loose Steel Lintels: Provide loose structural steel lintels for openings and recesses in masonry walls and partitions as shown. Weld adjoining members together to form a single unit where indicated. Provide not less than 8" bearing at each side of openings, unless otherwise shown.

Miscellaneous Framing and Supports:

Provide miscellaneous steel framing and supports which are not a part of structural steel framework, as required to complete work.
Fabricate miscellaneous units to size, shapes and profiles shown or, if not shown, or required dimensions to receive adjacent other work to be retained by framing. Except as otherwise shown, fabricate from structural steel shapes and plates and steel bars, of welded construction using mitered joints for field connection. Cut, drill and tap units to receive hardware and similar items.

Equip units with integrally welded anchors for casting into concrete or building into masonry. Furnish inserts of units must be installed after concrete is placed.

Except as otherwise shown, space anchors 24" o.c. and provide minimum anchor units of 1¼" x ¼" x 8" steel straps.

Miscellaneous Steel Trim: Provide shapes and size for profiles shown. Except as otherwise noted, fabricate units from structural steel shapes and plates and steel bars, with continuously welded joints and smooth exposed edges. Use concealed field splices wherever possible. Provide cutouts, fittings and anchorages as required for coordinations of assembly and installation with other work.

Shelf Angles: Provide structural steel shelf angles of sizes shown for attachment to concrete framing. Provide slotted holes to receive ¾" bolts spaced at not more than 6" from ends and not more than 24" o.c., unless otherwise indicated.

Furnish wedge-type concrete inserts, complete with fasteners, for attachment of shelf angles to cast-in-place concrete.

Structural Steel Door Frames:

Fabricate steel doorframes of structural shapes and bars as shown, fully welded, uniform, square and true. Plug weld built-up members, continuously weld exposed joints; grind exposed welds smooth. Provide ⅝" x 1½" steel bar stops, unless otherwise indicated. Secure removable stops to frame with countersunk machine screws, uniformly spaced at not more than 10" o.c. Provide necessary reinforcements and drill and tap as required for finish hardware.

Provide steel strap anchors for securing door frames into adjoining concrete or masonry, using ⅛" x 2" straps of the length required for a minimum 8" embedment, unless otherwise shown. Weld anchors to frame jambs no more than 12" from both bottom and head of frame and space anchors not more than 30" apart.

Extend bottom of frames to floor elevation shown and secure to concrete with steel angle clips welded to frames, anchored with expansion shields and bolts.

Steel Grating: Use materials of the size and thickness shown, or if not shown, of the size recommended by NAAMM tables. Work to the dimensions shown or accepted on shop drawings, using proven details of fabrication and support. Use the type of materials shown or specified for the various components of the work.

Metal Bar Grating: Comply with NAAMM "Metal Bar Grating Manual" and as herein specified.

Traffic Surface: Plain.

Steel Finish: Shop prime paint.

Steel Finish: Hot-dip galvanized after fabrication.

Provide removable grating sections with end-banding bars for each panel, 4 saddle clip anchors designed to fit over 2 bearing bars, and 4 stud bolts with washers and nuts, unless otherwise indicated.

Notch gratings for penetrations as indicated. Layout units to allow grating removal without disturbing items penetrating grating.

Provide banding for openings in grating separated by more than 4 bearing bars, for same material and size as bearing bars, unless otherwise indicated.

Notching of bearing bars at supports to maintain elevations will not be permitted.

Weld stud bolts to receive saddle clip anchors to supporting steel members.

Steel Pipe Railings and Handrails: Fabricate pipe railings and handrails to design, dimensions and details shown. Provide railing and handrail members formed of pipe of sizes and wall thickness indicated, or if not shown, as required to support design loading.

Interconnect railing and handrail members by butt-welding or welding with internal connectors, at fabricator's option, except as otherwise indicated.

At tee and cross intersections provide coped joints.

At bends interconnect pipe by means of prefabricated elbow fittings, or flush radius bends, as applicable, of radii indicated.

At elbow bends provide mitered joints.

Form bends by use of prefabricated elbow fittings and radius bends or by bending pipe, at fabricator's option.

Form simple and compound curves by bending pipe in jigs to produce uniform curvature for each repetitive configuration required; maintain cylindrical cross-section of pipe throughout entire bend without buckling, twisting or otherwise deforming exposed surfaces of pipe.

Provide wall returns at ends of wall-mounted handrails, except where otherwise indicated.

Close exposed ends of pipe by welding 3/16" thick steel plate in place or by use of prefabricated fittings.

Toe Boards: Where indicated, provide toeboards at railings around openings and at the edge of open-sided floors and platforms. Fabricate to the dimensions and details shown, or if not shown, use a 4" high x ⅛" plate welded to, and centered between, each railing post.

Brackets, Flanges, Fittings and Anchors: Provide wall brackets, end closures, flanges, miscellaneous fittings and anchors for interconnection of pipe and attachment of railings and handrails to other work. Furnish inserts and other anchorage devices for connecting railings and handrails to concrete or masonry work.

For railing posts set in concrete provide sleeves of galvanized steel pipe not less than 6" long and with an inside diameter not less than ½" greater than the outside diameter of pipe. Provide steel plate closure welded to bottom of sleeve and of width and length not less than 1" greater than outside diameter of sleeve.

Provide friction fit, removable covers designed to keep sleeves clean and hold top edge of sleeve ½" below finished-surface of concrete.

Steel Framed Stairs:

General: Construct stair units to conform to sizes and arrangements as shown; join pieces together by welding unless otherwise indicated. Provide complete stair assemblies including metal framing, hangers, columns, railings, newels, balusters, struts, clips, brackets, bearing plates and other components for the support of stairs and platforms and as required to anchor and contain the stairs on the supporting structure.

Stair Framing: Fabricate stringers of structural steel channels, or plates, or a combination thereof, as shown. Provide closures for exposed ends of stringers. Construct platforms of structural steel channel headers and miscellaneous framing members as shown. Bolt or weld headers to strings and newels and framing members to strings and headers; fabricate and join so that bolts, if used, do not appear on finish surfaces.

Where masonry walls support steel stairs, provide temporary supporting struts designed for erection of steel stair components before installation of masonry.

Metal Pan Risers, Subtreads, and Subplatforms: Shape metal pans for risers and subtreads to conform to configuration shown. Provide thicknesses of structural steel sheet for metal pans indicated but not less than that required to support total design loading.

Form metal pans of cold-rolled carbon steel sheet unless otherwise indicated.

Form metal pans of hot-rolled or cold-rolled carbon steel sheet, unless otherwise indicated.

Form metal pans of galvanized carbon steel sheet, where indicated.

Directly weld risers and subtreads to stringers, locate welds on side of metal pans to be concealed by concrete fill.

Attach risers and subtreads to stringers by means of brackets made of steel angles or bars. Weld brackets to strings and attach metal pans to brackets by welding, riveting or bolting.

Provide subplatforms of configuration and constructions indicated, or if not indicated, of same metal as risers and subtreads and in thicknesses required to support design loading. Attach subplatform to platform framing members with welds.

Steel Floor Plate Treads and Platforms: Provide raised pattern steel floor plate complying with FS QQ-F-461, Class I. Provide pattern shown or, if not shown, as selected from manufacturer's standard patterns.

Form treads of ¼" thick steel floor plate with integral nosing and back edge stiffener. Weld steel supporting brackets to strings and treads to brackets.

Fabricate platforms of steel floor plate of thickness shown. Provide nosing matching that on treads at all landings. Secure floor plates to platform framing members with welds.

Floor Grating Treads and Platforms: Provide patterns spacing and bar sizes indicated complying with NAAMM "Metal Bar Grating Manual."

Finish: Shop prime paint.

Finish: Painted.

Fabricate grating treads with steel plate nosing on one edge and with steel angle or steel plate carrier at each end for string connections. Secure treads to strings with bolts.

Fabricate grating platforms, with nosing on one edge and with steel angle or steel plate carrier at each end for string connections. Secure treads to strings with bolts.

Stair Railings and Handrails: Comply with applicable requirements specified elsewhere in this section for steel pipe railings and handrails, and as follows.

Railings may be bent at corners, rail returns and wall returns instead bends are uniformly formed in jigs, using prefabricated fittings.

Connect railing posts to stair framing by direct welding, except as otherwise indicated.

Cast Metal Gratings, Frames, and Covers: Provide cast metal gratings, opening covers, receptacles, and frames and similar items called for on drawings. Provide anchors of the type required to adequately anchor all frames in place. Paint surfaces in contact with concrete with bituminous paint.

Products/Manufacturer: Items shown on the drawings are identified by catalog numbers of the Neenah Foundry Co. Products which are comparable in design, function, service, and weight produced by Deeter Foundry Co. are also acceptable.

PART 3 – EXECUTION

PREPARATION

Coordinate and furnish anchorages, setting drawings, diagrams, templates, instructions, and directions for installation of anchorages, such as concrete inserts, anchor bolts and miscellaneous items having integral anchors, which are to be embedded in concrete or masonry construction. Coordinate delivery of such items to project site.

INSTALLATION

General:

Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing miscellaneous metal fabrications to in-place construction; including, threaded fasteners for concrete and masonry inserts, toggle bolts, through-bolts, lag bolts, wood screws and other connectors as required.

Cutting, Fitting and Placement: Perform cutting, drilling and fitting required for installation of miscellaneous metal fabrications. Set work accurately in location, alignment and elevation, plumb, level, true and free of rack, measured from established lines and levels. Provide temporary bracing or anchors in formwork for items which are to be built into concrete, masonry or similar construction.

Fit exposed connections accurately together to form tight hairline joints. Weld connections which are not to be left as exposed joints, but cannot be shop welded because of shipping size limitations. Grind exposed joints smooth and touch-up shop paint coat. Do not weld, cut or abrade the surfaces of exterior units which have been hot-dip galvanized after fabrication, and are intended for bolted or screwed field connections.

Field Welding: Comply with AWS Code for procedures of manual shielded metal-arc welding, appearance and quality of welds made, and methods used in correcting welding work.

Gratings:

Weld-non-removable units to supporting members or framework.

Secure removable units to supporting members or framework with galvanized machine screws, or manufacturer's standard saddle or clip units.

Steel Pipe Railings and Handrails:

Adjust railings prior to anchoring to ensure matching alignment at abutting joints. Space posts at spacing indicated, or if not indicated, as required by design loadings. Plumb posts in each direction. Secure posts and railing ends to building construction as follows.

Anchor posts in concrete by means of pipe sleeves preset and anchored into concrete. After posts have been inserted into sleeves, fill annular space between post and sleeve solid with non-shrink, non-metallic grout, mixed and placed to comply with grout manufacturer's directions.

Anchor posts in concrete by core drilling holes not less than 5" deep and ¾" greater than outside diameter of post. Clean holes of all loose material, insert posts and fill annular space between post

and concrete with non-shrink, non-metallic grout, mixed and placed to comply with grout manufacturer's directions.

Cover anchorage joint with a round steel flange welded to post.

Leave anchorage joint exposed; wipe off excess grout and leave ⅛" buildup, sloped away from post. For installation exposed on exterior or to flow of water, seal grout to comply with grout manufacturer's directions.

Anchor posts to steel with steel oval flanges, angle type or floor type as required by conditions, welded to posts and bolted to steel supporting members.

Anchor rail ends into concrete and masonry with steel round flanges welded to rail ends and anchored into wall construction with lead expansion shields and bolts.

Anchor rails ends to steel with steel oval or round flanges welded to rail ends and bolted to structural steel members, unless otherwise indicated.

Provide removable railing sections as indicated. Furnish slip-fit metal socket or sleeve for casting into concrete. Accurately locate sleeves to match post spacing.

Secure handrails to wall with wall brackets and end fittings. Provide bracket with not less than 1½" clearance from inside face of handrail and finished wall surface. Locate brackets as indicated or, if not indicated, at spacing required for design loading. Secure wall brackets and wall return fittings to building construction as follows:

Use type of bracket with flange tapped for concealed anchorage to threaded hanger bolt.

Use type of bracket with pre-drilled hole for exposed bolt anchorage.

For concrete and solid masonry anchorage, use drilled-in expansion shield and either concealed hanger bolt or exposed lag bolt, as applicable.

For hollow masonry anchorage, use toggle bolts having square heads.

For stud partitions use lag bolts set into wood backing between studs. Coordinate with stud installations for accurate location of backing members.

Expansion Joints: Provide expansion joints at locations indicated, or if not indicated, at intervals not to exceed 40 feet. Provide slip joint with interval sleeve extending 2" beyond joint on either side; fasten internal sleeve firmly to the side; locate joint within 6" of post.

ADJUST AND CLEAN

Touch-Up Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop painting. Apply by brush or spray to provide a minimum dry film thickness of 2.0 mils.

END OF SECTION 05500

SECTION 09950 – RESINOUS FLOORING

PART 1 - GENERAL

DESCRIPTION OF WORK

Furnish and install the mortar flooring system as specified and indicated. Prior to installation, provide decontamination and cleaning as specified. The term "mortar flooring system" as used in this section will include the primers, resin systems and aggregate materials, topcoats, cove building materials, and any related materials for the project.

Complete the mortar flooring system installation in strict accordance with these specifications, the coating system manufacturer's most current requirements for surface preparation, application and inspection, and the instructions for safety. In the event of a conflict between these specifications and the manufacturer's instructions, the more stringent requirements will apply.

The Contractor shall be responsible for providing ventilation, initial cleaning, inspection, supervision, dust control and equipment protection as specified herein and related sections for the work associated with this Section. The Contractor is responsible for all other work associated with this Section including protection of existing equipment and structures in the work area, surface preparation, flooring application, curing, coating repair, rework, inspection and supervision.

RELATED SECTIONS

General Requirements

REFERENCES:

Society for Protective Coatings (SSPC) Specifications and Standards:

SSPC-PA-3: "A Guide to Safety in Paint Application".

SSPC-SP-13: "Surface Preparation of Concrete".

NACE (National Association of Corrosion Engineers)

NACE Publication 6D-173, "A Manual for Painter Safety".

NACE Publication 6G-164, "Surface Preparation Abrasives for Industrial Maintenance Painting".

ASTM (American Society for Testing and Materials)

ASTM D4541 - L.R. "Standard Method for Pull-Off Strength of Coatings using Portable Adhesion Testers".

ASTM E337 - L.R. "Standard Practice Test Method for Measuring Humidity with a Psychrometer".

ASTM D4263-83 (1999), "Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method".

ASTM F1869-98, "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride".

ASTM D4414-95, "Standard Practice for Measurement of Wet Film Thickness by Notched Gages".

ICRI Guide No. 03732, "Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings and Polymer Overlays," International Concrete Repair Institute, Sterling, VA.

ASTM 4262, "Standard Test Method for Measuring Surface pH of Acid Etched Concrete".

ASTM D4259, "Standard Practice for Abrading Concrete".

DEFINITIONS

Terms used in this Section are defined as follows:

Mortar System Flooring Work - The aspects involved with proper application of the specified high solids flooring system, including but not limited to cleaning, surface preparation, mixing, application, curing, and quality control.

Approved Materials - The coating system, blast media, and other specified materials for this coating work.

Wet Film Thickness - The primer or coating films' actual thickness immediately following application. Wet film thickness is measured in mils or thousandths of an inch (0.001") and is abbreviated WFT.

Dry Film Thickness - The primer or coating films' actual thickness following curing and drying. Dry film thickness is measured in mils or thousandths of an inch (0.001") and is abbreviated DFT.

Coating System Manufacturer - Refers to the approved coating Manufacturer, abbreviated as CSM in this Section.

Manufacturer's Technical Representative(s) - Refers to the technical representative(s) of the approved CSM.

A/E - Architectural or Engineering Firm.

QUALITY ASSURANCE

The Contractor shall meet the following requirements:

The Contractor is ultimately responsible for the workmanship and quality of the mortar flooring system installation. Inspections by the Owner, the Engineer, or others do not limit the Contractor's responsibility.

Do not use or retain contaminated, outdated, or diluted materials for flooring. Do not use materials from previously opened containers.

Use only products of the approved CSM. Provide the same products for repairs as for the original coating.

If any requirements of this specification are contradicted by a referenced standard or vice-versa, the matter shall be resolved in writing by the A/E or its representative.

Make available at all times all locations and phases of the work for access and inspection by the Engineer, the Owner, or other personnel designated by the Owner. The Contractor shall provide ventilation, egress, and whatever other means are required for the Owner, Engineer, or designated personnel to access and exit the work areas safely.

Conduct work so that the mortar flooring system is installed as specified herein. Inspect work continually to ensure that the coating system is installed as specified herein. The A/E shall inspect the work to determine conformance with the contract documents.

The Contractor's Supervisor shall be on site at all times and will be thoroughly familiar with the work in progress. This Supervisor shall have authority to receive and execute all direction provided by the A/E or the Owner.

The methods of construction shall be in accordance with all requirements of this specification and the best trade practices. Any changes in the mortar flooring system installation requirements shall be allowed only with the written approval of the A/E.

Installation shall be performed by an applicator having satisfactory experience in the application of these or similar materials or with on-site consultation by a qualified field service representative of the CSM.

SUBMITTALS

Submit the following prior to commencing with any phase of the work covered by this Section:

Manufacturer's current printed recommendations and product data sheets for all mortar flooring system products including performance criteria, surface preparation and applications, volatile organic compound (V.O.C.) Data, and safety requirements.

Material Safety Data Sheets (MSDS) for any materials brought on-site including all coating system materials, solvents, and abrasive blast media.

Contractor's written verification that the personnel who will perform this work have the required experience as specified in 1.05 1.9. This document must list the names of all of the Contractor's supervisors and tradespeople who will work on the project covered by this Section.

List of cleaning and thinner solutions allowed by the CSM.

Storage requirements including temperature, humidity, and ventilation for Coating System Materials.

Owner, contractor, and manufacturer's representative shall review and mutually agree upon color, grade, and final texture of coating system before starting installation. The acceptance of a sample will constitute the job standard by which installation will proceed.

DELIVERY, STORAGE, AND HANDLING

Material shall be delivered to project site in manufacturer's original unopened containers.

Materials shall be stored indoors, protected from damage, moisture, direct sunlight and temperatures below 40 degrees F or above 90 degrees F.

Store all materials only in area or areas designated by the Owner solely for this purpose. Confine mixing, thinning, clean-up and associated operations, and storage of coating materials related debris before authorized disposal, to these areas. All materials are to be stored on pallets or similar storage/handling skids off the ground.

Mix all coating materials in a designated enclosed mixing area. This enclosed area must protect the mixing operation and materials from direct sunlight, inclement weather, freezing, or other means of damage or contamination. Protect all other concrete and metallic surfaces and finishes from any spillage of material(s) within the mixing area.

Do not use drain piping for disposal of coating materials.

The Contractor shall take all precautions and implement all measures necessary to avert potential hazards associated with the mortar flooring system materials as described on the pertinent Material Safety Data Sheets or container labels.

Deliver all materials to the job site in new, unopened containers. Each container shall bear the CSM's name and label.

Labels on all material containers must show the following information:

Name or title of product.
Manufacturer's batch number.
Manufacturer's name.
Generic type of material.
Application and mixing instructions.
Hazardous material identification label.
Shelf life date.

All containers shall be clearly marked indicating any personnel safety hazards associated with the use of or exposure to the materials.

All materials shall be handled and stored to prevent damage or loss of label.

Do not use or retain contaminated, outdated, prematurely opened, diluted materials, or

materials which have exceeded their shelf life.

ENVIRONMENTAL CONDITIONS

Surfaces and surrounding air temperatures must exceed 55 degrees F but must be less than 90 degrees F, with materials at not less than 70 degrees F during application.

Do not apply coating materials when dust is being generated.

If existing facility lighting is not adequate for flooring system application, the Contractor shall provide all temporary lighting during the work equivalent to one 200 watt explosion proof incandescent lamp per 100 square feet of work area.

PART 2 - PRODUCTS

MATERIALS

Pool and Toilet/Shower Room Floors:

Primer: Series 201 Epoxoprime, two-component, moisture tolerant, penetrating modified polyamine cured epoxy primer.

Intermediate broadcast: Series 222Deco-Tread. Series 222 is an aggregate filled, modified polyamine cured epoxy resin with quartz aggregate broadcasted at a 1/16 inch.

Intermediate broadcast: Series 222 Deco-Tread. Series 222 is an aggregate filled, modified polyamine cured epoxy resin with quartz aggregate broadcasted at a 1/16 inch.

Quarts Color Selection: To be selected from Tnemec standards – two separate colors to be chosen to created pattern shown on floor finish drawings for the PT Pool area and adjacent shower/toilet rooms.

2 Coats: Series 284 Tneme-Glaze, two-component, polyamine cured clear epoxy coat.

Finish: Series 295 Clear CRU, two-component, clear polyurethane topcoat.

Coving: Use Series 222 Deco-Tread mortar to form a rolled radius cove.

MANUFACTURER

Tnemec Company, Incorporated. – or approved equal

Approved Installers

Surface Sealers	Stephans&Smith	McGill Brothers
(402)474-2440	(402)479-6434	(402)556-0915
Jason Lee	Steve Willis	Doug Tyser
surfacesealers@msn.com	swillis@stephanandsmith.com	

SCS Flooring	Artistic Concrete
(800)420-3049	(641)746-2238
Bruce Brown	Travis Perterson
Scsflooor@netins.net	travis@artisticconcreteinc.com

PART 3 - EXECUTION

GENERAL

Protection

Mask, cover, or otherwise protect all surfaces, equipment, and finishes not to receive the mortar flooring system specified in this Section.

Strictly follow the approved CSM's written instructions and the requirements of this specification regarding all aspects of mortar flooring work including: mixing, application, recoat times and curing.

Mock-up

Prior to commencing the installation, the Contractor shall install with the owner's approval, a mutually agreed upon mock-up test sample to show final color and appearance of the mortar flooring system.

PREPARATION

Allow new concrete to cure for 28 days. Verify dryness by testing for moisture with a "plastic film tape-down test". (Reference ASTM D4263)

Shot-blast or mechanically abrade to remove laitance, curing compounds, sealers and other contaminants and to provide surface profile. (Reference ASTM D4259, ICRI CSP 4-9).

Vacuum clean concrete to remove all dirt, dust, and other loose materials.

After mechanically abrading, verify that all surfaces are clean, dry and free of any contaminants, which could adversely affect the adhesion of the flooring system.

If between final surface preparation work and mortar flooring system application, contamination of the prepared and cleaned substrates occurs, recleaning shall be required until the requirements of this Section are met.

INSTALLATION

Primer: The primer shall be mechanically mixed, applied and cured in strict accordance with manufacturer's printed instructions. Apply uniformly at a film thickness of 6 to 8 dry mils.

Rolled radius cove bases shall be installed in accordance with the CSM's written instructions and at all subject floor wall transitions indicated on the Standard Flooring Details.

Intermediate Coats: The material shall be mixed, applied and cured in strict accordance with the manufacturer's printed instructions. Apply by double-broadcast at 1/16" thickness.

Note to Specifier: Floor and wall transitions can be formed to have a rolled radius cove. This will provide a seamless wall to floor transition.

Top Coat: The high-solids, top coat shall be mechanically mixed, applied and cured in strict accordance with manufacturer's printed instructions and applied at a film thickness of 8 to 12 dry mils. Skid resistance properties can be adjusted by the film thickness and number of topcoats and should be determined at the time the mock-up is completed.

Finish Coat: Clear polyurethane finish coat shall be mechanically mixed and applied at a film thickness of 2.0 to 3.0 dry mils.

Cracks and control joints, construction joints, expansion joints, and all mortar flooring system terminations shall be installed as indicated on the Standard Flooring Details.

CLEANUP

Remove waste materials, rubbish, and debris and dispose of them at the owner's direction. Leave work areas in a clean and tidy condition.

PROTECTION

Protect the completed work from water, airborne particles or other surface contaminants until cured for a minimum of 24 hours after application.

Protect from traffic, physical abuse, immersion and chemical exposure until the complete system has thoroughly cured for 24 hours at 75 degrees F. For different temperatures, consult the manufacturer's representative about curing times.

FIELD QUALITY CONTROL INSPECTION AND TESTING

Inspection by the Architect, Owner or others does not limit the Contractor's responsibilities for quality as specified herein or as required by the CSM's instructions.

The Contractor shall perform the Q.C. procedures listed below in conjunction with the requirements of this Section. The Engineer will inspect the work to determine conformance to the contract documents.

Degree of Cleanliness.

Visually inspect the degree of cleanliness of substrates to meet the requirements of this Section. The pH of the concrete substrates will be measured using pH indicating papers. pH testing is to be performed once every 100 sq. ft. of surface area to be coated.

Acceptable pH values shall be between 8.0 and 11.0 as measured by a full-range (1-12) color indicating pH

paper with readable color calibrations and a scale at whole numbers (minimum). Use Hydrion Insta-Chek Jumbo 0-13 or 1-12 or equal. The paper shall be touched to the surface once using moderate finger pressure. The surface shall not be wiped or moved laterally to disturb the surface during pH testing. Following the one touch, lift the paper vertically to not "wipe" the surface. Compare the color indicated with the scale provided and record the pH.

Note: If the surface of the concrete is dry, it is not possible to take a pH measurement. However, pH values are still important on dry surfaces. When a dry concrete substrate is encountered for a pH test, the surface where the pH test is to be performed shall be sprayed lightly with distilled, deionized water from a commercially available spray bottle that has been properly rinsed to preclude any dissolved solids. The spray shall just wet the surface to a "shiny" appearance. Wait 60 seconds to allow chemical equilibria to be established and then test the pH of the water on the surface. Perform this test in accordance with ASTM D4262.

Concrete Surface Profile shall be in accordance with ICRI CSP-4

Using the replicate rubber specimens inspect the concrete surface profile in accordance with ICRI Guide No. 03732. This should be performed once for every 100 square feet of surface area to be coated.

Measure and record ambient air temperature once every two hours of each shift using a thermometer and measure and record substrate temperature once every two hours using a surface thermometer.

Measure and record relative humidity every two hours of each shift using a sling psychrometer in accordance with ASTM E337.

Inspect correct mixing of coating materials in accordance with the CSM's instructions.

Inspect and record that the "pot life" of coating materials used are not exceeded during installation.

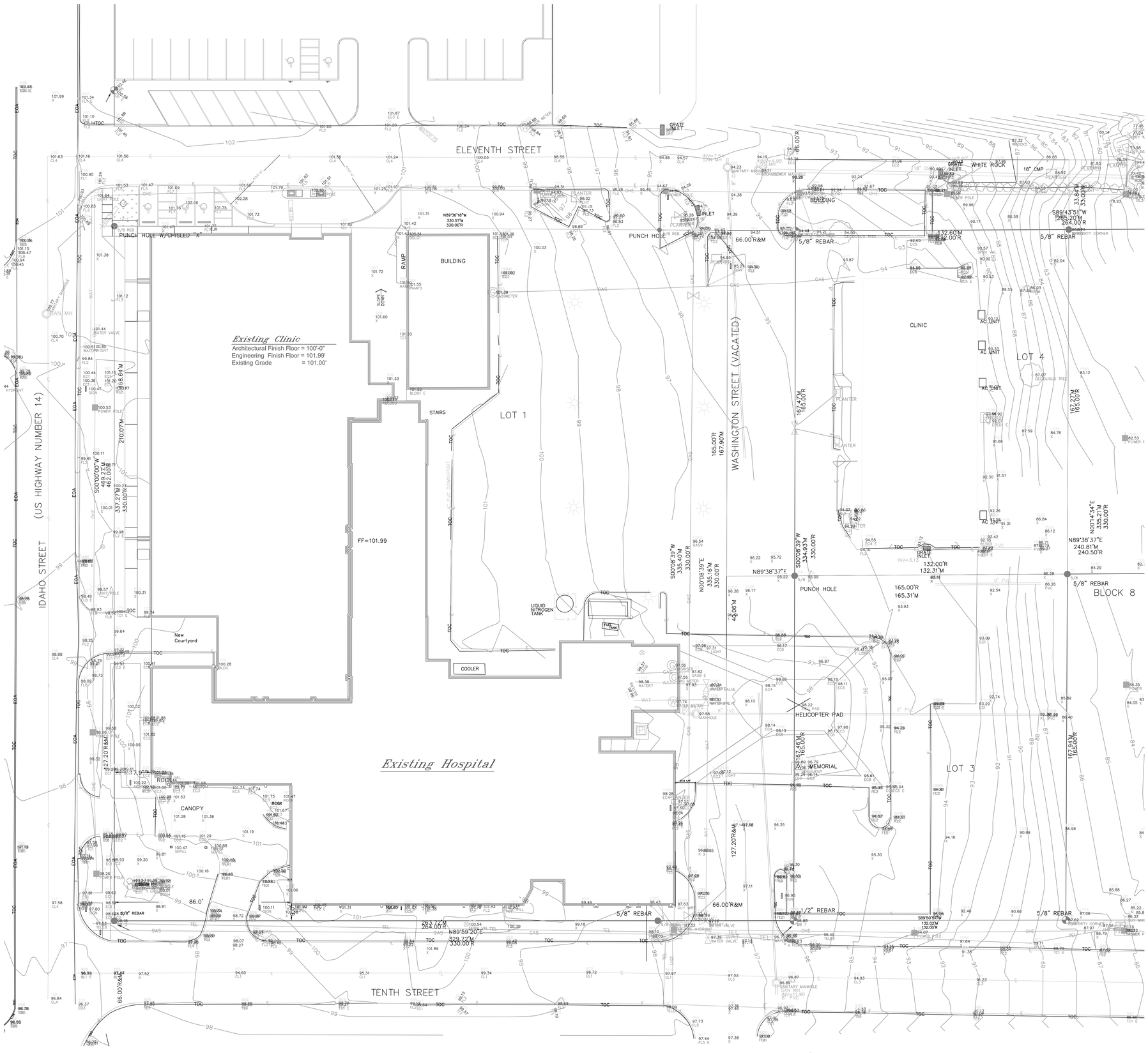
Measure and record the thickness of the coating system using a notched gauge in accordance with ASTM D4414 for Wet Film Thickness at least once every 10 sq. ft. of coating area.

Perform moisture tests on concrete as follows:

> Once for every 500 square feet of surface area to be coated, perform the plastic sheet test in accordance with ASTM D4263. If moisture is indicated, proceed to step 2 below.
>
> Perform calcium chloride moisture tests in accordance with ASTM D1869 once for every 1000 square feet of surface area to be coated. The maximum limit for moisture vapor emissions rate should be 3.0 lbs. per 24 hours per 1000 sq. ft. If tests indicate rates higher than 3.0, consult with Tnemec's Technical Service Department for further evaluation.

Inspect to verify proper curing of the mortar flooring system as recommended by the CSM.

END OF SECTION 09950



LEGEND

EXISTING FIRE HYDRANT		SPRINKLER	
EXISTING WATER VALVE		GUARD POST	
MONUMENT FOUND	P	ELECTRICAL PEDESTAL	
MONUMENT SET	—EOA—	EDGE OF ASPHALT	
GAS VALVE	—GAS—	GAS LINE	
SIGN	—UGE—	UNDERGROUND ELECTRIC	
MANHOLE	—OHE—	OVERHEAD ELECTRIC	
LIGHT POLE	—TOC—	TOP OF CURB	
WATER SHUT OFF	—F—	FLOWLINE	
GUY WIRE	—℄—	CENTERLINE	
POWER POLE	—SAN 8"—	SANITARY SEWER LINE AND SIZI	
MAILBOX	—W 8"—	WATER LINE AND SIZE	
DOWNSPOUT	—TEL—	TELEPHONE CABLE	
GAS METER	—x—	FENCE	
SPRINKLER		CONCRETE	

Existing Site Plan

SCALE: 1" = 20'-0"

NO.	DATE	REVISIONS

Seal

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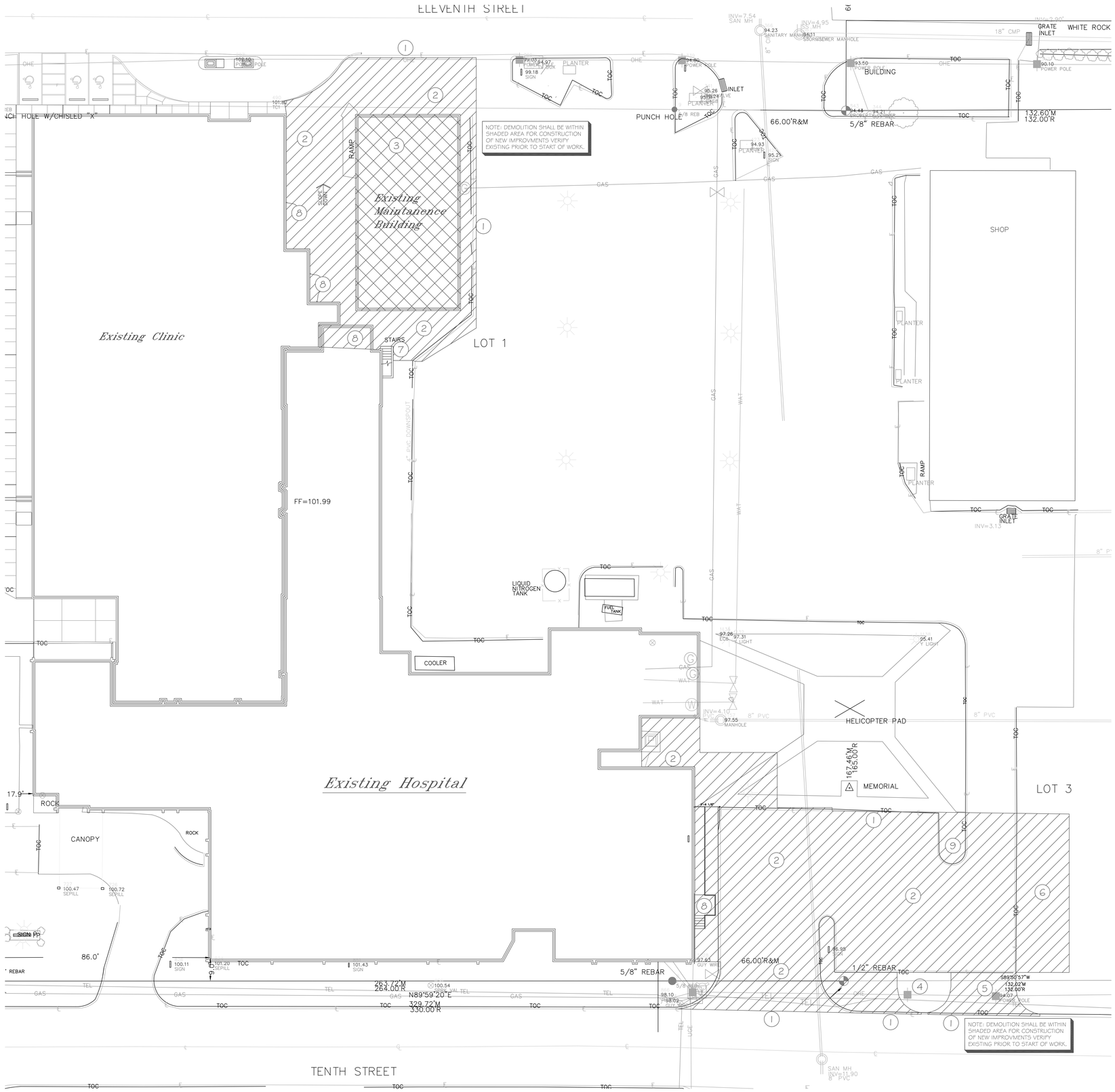
TITLE: Existing Site Plan

PROJECT: Brodstone Memorial Hospital
2016 Expansion & Renovation Project
520 East 10th Street
Superior, NE 68978

PROJECT NUMBER	15-1015
DRAWN BY	ggc
CHECKED BY	~
DATE	March 10th, 2016
SHEET NUMBER	C100
REVISION NUMBER	△



Site Demolition Plan

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

GENERAL NOTES:

1. REMOVE ALL CONCRETE OR VEGETATION WITHIN THE FOOTPRINT OF THE NEW PARKING & BUILDING.
2. ALL UNDERGROUND AND ABOVE GROUND UTILITIES WITHIN DEMOLITION BOUNDARIES ARE TO BE VERIFIED PRIOR TO DEMOLITION. COORDINATE WITH ALL PARTIES.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL UTILITY AND STRUCTURAL LOCATIONS PRIOR TO ANY DEMOLITION. INFORMATION SHOWN IS BASED UPON FIELD SURVEY, HOWEVER ALL UNDERGROUND INFORMATION MAY NOT BE SHOWN. COORDINATE WITH ARCHITECTS OFFICE ANY UNKNOWN AREAS PRIOR TO CONTINUING WITH CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR ALL DAMAGE TO UNDERGROUND UTILITIES.
4. CONTRACTOR IS TO REMOVE ALL STRUCTURES FOUNDATIONS, SLABS, DRIVES, WALKS, PAVED DRAINAGE AREAS, AND VEGETATION AS REQUIRED WITHIN AREA OF NEW CONSTRUCTION UNLESS OTHERWISE INSTRUCTED TO COMPLETE NEW PARKING, DRIVES AND SITE IMPROVEMENTS.
5. CONTRACTOR IS RESPONSIBLE TO RETURN ALL ALTERED OR DAMAGED SITE IMPROVEMENTS DESIGNED TO REMAIN TO PRE CONDITIONS.
6. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL DEMOLISHED AND REMOVED ITEMS NOT TO BE REUSED.
7. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING.
9. ANY UNDERGROUND STRUCTURES NOT SHOWN ON OR CALLED OUT WITHIN SITE SURVEY THAT IS DAMAGED DUE TO CONTRACTOR NEGLIGENCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR UNLESS IT IS DETERMINED BY THE ARCHITECT THAT IT WAS UNAVOIDABLE AND WOULD HAVE HAD TO BEEN PART OF THE PROJECT IF KNOWN.

DEMOLITION NOTES:

1. REMOVE EXISTING CURB AND GUTTER IN AREA OF HATCH. MAINTAIN EXISTING FLOW-LINE OF THE EXISTING GUTTER FLOW LINE WHEN POURING BACK NEW CURB AND GUTTER.
2. REMOVE AREA OF CONCRETE AS REQUIRED FOR NEW CONSTRUCTION.
3. EXISTING BUILDING TO BE REMOVED BY OWNER. REMOVE EXISTING FOUNDATION AND UTILITIES THAT SERVICE THIS BUILDING.
4. REMOVE EXISTING GUY WIRE FOR THE POWER POLL AFTER 3 PHASE POWER HAS BEEN REMOVED FROM THIS POLE. COORDINATE WITH ELECTRICAL SITE PLAN AND THE CITY OF SUPERIOR. MAINTAIN EXISTING PHONE BOX AT EXISTING LOCATION AT THE BASE OF THE POLE.
5. CITY TO REMOVE AND RELOCATE SECOND POWER POLE PER ELECTRICAL SITE PLAN.
6. REMOVE ALL EXISTING VEGETATION TO PREPARE AREA FOR NEW PARKING. MAINTAIN EXISTING GENERAL GRADE FOR DRAINAGE OF NEW PARKING.
7. MAINTAIN EXISTING STAIRWAY TO THE EXISTING BUILDING LOWER LEVEL. PATCH BACK DAMAGED AREAS AS REQUIRED. PROVIDE BOND BREAKER BETWEEN THE EXISTING STAIRS AND THE NEW CONCRETE AT THIS AREA.
8. SEE ARCHITECTURAL DEMOLITION SHEETS FOR PORTION OF EXISTING BUILDING TO BE REMOVED.
9. REMOVE EXISTING CURB, GUTTER AND LANDSCAPING IN THIS AREA AS REQUIRED FOR CONSTRUCTION OF NEW PARKING.
10. MAINTAIN EXISTING CURB AND GUTTER IN THE LOCATION OF NEW PARKING.
11. SEE DRAWING SHEET M001 & E001 FOR MECHANICAL AND ELECTRICAL SITE COORDINATED ITEMS.

LEGEND

EXISTING FIRE HYDRANT	SPRINKLER
EXISTING WATER VALVE	GUARD POST
MONUMENT FOUND	ELECTRICAL PEDESTAL
MONUMENT SET	EDGE OF ASPHALT
GAS VALVE	GAS LINE
SIGN	UNDERGROUND ELECTRIC
MANHOLE	OVERHEAD ELECTRIC
LIGHT POLE	TOP OF CURB
WATER SHUT OFF	FLOWLINE
GUY WIRE	CENTERLINE
POWER POLE	SANITARY SEWER LINE AND SIZI
MAILBOX	WATER LINE AND SIZE
DOWNSPOUT	CONTOUR LINE
GAS METER	TELEPHONE CABLE
SPRINKLER	FENCE
	CONCRETE

REVISIONS | DATE | NO.

Seal

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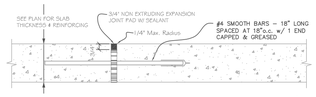
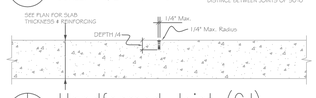
TITLE: Overall Site Demolition Plan

PROJECT: Brodstone Memorial Hospital
2016 Expansion & Renovation Project
520 East 10th Street
Superior, NE 68978

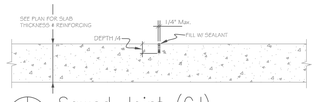
PROJECT NUMBER: 15-1015
DRAWN BY: ggc
CHECKED BY: ~
DATE: March 10th, 2016
SHEET NUMBER: C101
REVISION NUMBER



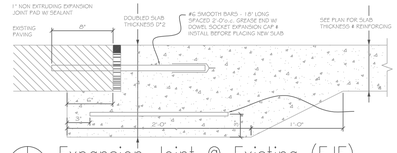
D1 C102 **Expansion Joint @ Walks (EJ)**
SCALE: 1 1/2" = 1' – 0"
NOTE: PROVIDE AS SHOWN WITH A MAXIMUM DISTANCE BETWEEN JOINTS OF 50'-0"



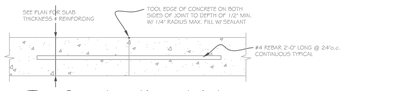
D2 C102 **Handformed Joint (CJ)**
SCALE: 1 1/2" = 1' – 0" FOR PARKING & WALKS



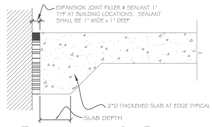
D3 C102 **Sawed Joint (CJ)**
SCALE: 1 1/2" = 1' – 0" FOR PARKING & WALKS



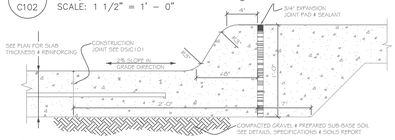
D4 C102 **Expansion Joint @ Existing (EJE)**
SCALE: 1 1/2" = 1' – 0" FOR DRIVES & PARKING



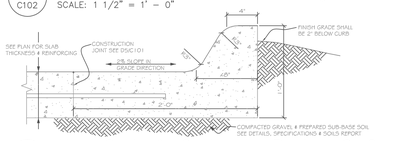
D5 C102 **Construction Joint**
SCALE: 1 1/2" = 1' – 0"



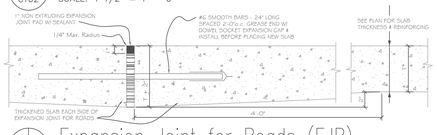
D6 C102 **Expansion @ Building**
SCALE: 1 1/2" = 1' – 0"



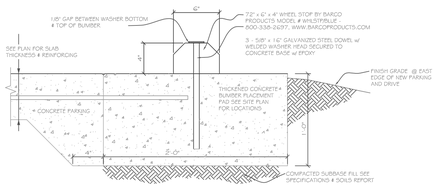
D7 C102 **New Curb & Gutter to Paving @ Walk**
SCALE: 1 1/2" = 1' – 0"



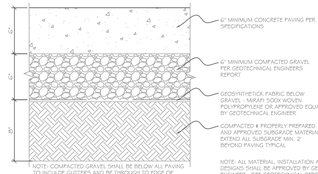
D8 C102 **New Curb & Gutter to Paving @ Grade**
SCALE: 1 1/2" = 1' – 0"



D9 C102 **Expansion Joint for Roads (EJR)**
SCALE: 1 1/2" = 1' – 0"

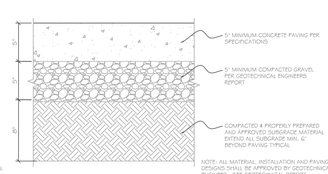


D10 C102 **Precast Concrete Bumber Detail**
SCALE: 1 1/2" = 1' – 0"

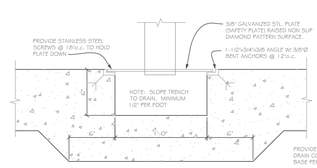


D11 C102 **Thickened Edge @ Entries**
SCALE: 1 1/2" = 1' – 0"

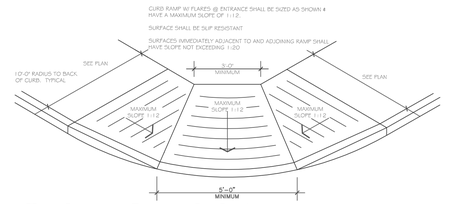
D12 C102 **Concrete Paving Detail**
SCALE: 1 1/2" = 1' – 0"



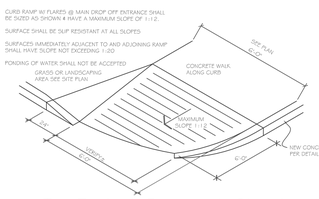
D13 C102 **Typical Concrete Walk Detail**
SCALE: 1 1/2" = 1' – 0"



D14 C102 **Trench Drain Detail**
SCALE: 1 1/2" = 1' – 0"



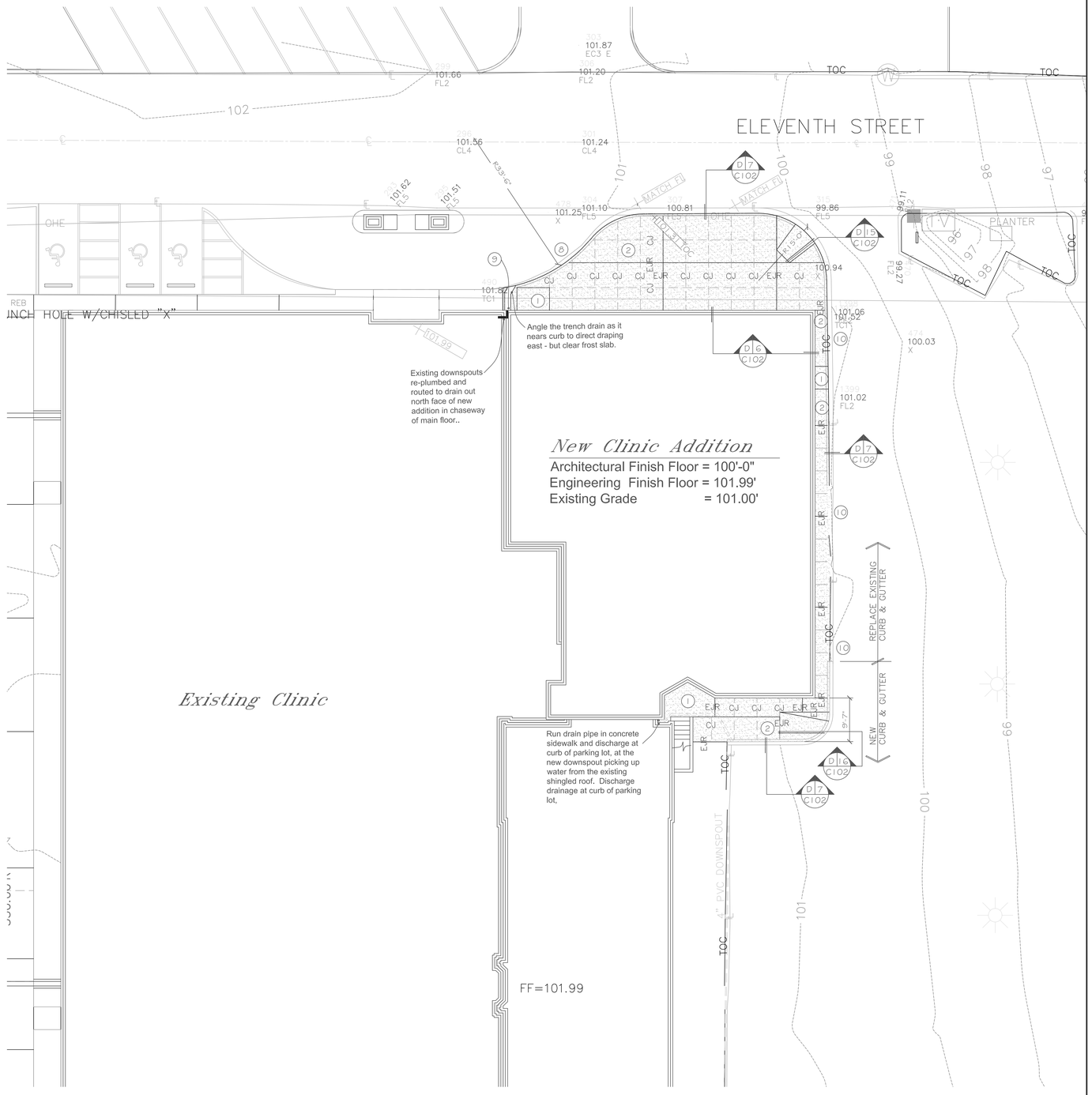
D15 C102 **Corner Ramp @ Curbs**
SCALE: NO SCALE



D16 C101 **Typical Ramp at Street**
SCALE: NO SCALE

SITE PLAN NOTES:

1. STRUCTURAL FROST SLAB SEE STRUCTURE
2. ALL CONCRETE WALKS TYPICAL 5" THICK WITH 5" COMPACTED SAND & GRAVEL BASE COURSE UNLESS OTHERWISE NOTED SEE DETAIL D13/C102 (VERIFY DESIGN w/ SOILS REPORT) w/ CONTROL JOINTS @ 5'-0"o.c. +/- TYPICAL & EXPANSION JOINTS AS NOTED. SLOPE CONCRETE WALK FROM BUILDING & IN DIRECTION OF GROUND SLOPE TYPICAL 1/4"/FT.
3. PROVIDE HANDICAPPED ADA STALL w/ LINES AS SHOWN. PAINTED LINES & SYMBOL SHALL BE ADA BLUE AND BE 4" IN WIDTH. AREA OF PARKING SHALL NOT EXCEED1:50 SLOPE.
4. 6" THICK CONCRETE PARKING & DRIVE w/ 6" THICK SAND & GRAVEL BASE COURSE SEE DETAIL D12/C102 (VERIFY DESIGN w/ SOILS REPORT) INSTALL EXPANSION JOINTS AS SHOWN & CONTROL JOINTS MAX. 196 SF(14'-0"x14'-0") OR AS SHOWN. SLOPE TO DRAIN ENTIRE PARKING TO THE EAST. MAINTAIN EXISTING GRADES.
5. PROVIDE 20'-0" LONG PARKING LOT STRIPING w/ STALL WIDTHS AS SHOWN ON PLAN. PROVIDE 4" WIDE BRIGHT YELLOW STREET PAINT TYPICAL.
6. 8" THICK CONCRETE DRIVE w/ 6" THICK SAND & GRAVEL BASE COURSE SEE DETAIL D15/C102 (VERIFY DESIGN w/ SOILS REPORT) INSTALL EXPANSION JOINTS AS SHOWN & CONTROL JOINTS MAX. (7'x7'6"-0"). SLOPE TO DRAIN ENTIRE PARKING TO EAST.
7. PROVIDE NEW CONCRETE PARKING TO EXISTING CONCRETE DRIVE WITH DETAIL D4/C102. COORDINATE INSTALLATION AT AN EXISTING CONTROL JOINT OR NEW CUT LINE OR AT AN APPROPRIATE LOCATION FOR CONSTRUCTION PURPOSES.
8. FEATHER CONCRETE CURB FROM THE EXISTING FLUSH ENTRANCE TO A 6" CURB AN THE EAST SIDE OF THE DROP-OFF.
9. CONNECT COPPER PIPE TO ROOF DRAINS IN WALL CONTINUE THROUGH WALL AND TURN DOWN INTO TRENCH DRAIN PER DETAIL D19/C102. PROVIDE TRENCH DRAIN IN WALL PER DETAIL D23/C102 AT EAST ROOF DRAIN LOCATION.
10. PROVIDE NEW CONCRETE CURB AT THE LOCATION OF THE EXISTING CURB TO MAINTAIN THE WEST SIDE OF THE EXISTING DRIVE.
11. INSTALL GRASS SOD AND CONNECT SPRINKLER SYSTEM TO EXISTING SUPPLY LINE TO MAINTAIN THIS PORTION OF LANDSCAPING.
12. SEED BACK GRASS IN THIS AREA TO MATCH EXISTING SURROUNDING GRASS.
13. SEE DRAWING SHEET M001 & E001 FOR MECHANICAL AND ELECTRICAL SITE COORDINATED ITEMS.
14. MODIFY (RAISE) HEIGHT OF EXISTING LIGHT POLE AT NEW CONCRETE WALK APPROXIMATELY 6".
15. REMOVE GUY WIRE AT THIS POWER POLE AFTER 3 PHASE POWER HAS BEEN REMOVED. COORDINATE WITH CITY.



Specialty Clinic Addition Site Plan

SCALE: 3/32" = 1'-0"

NO.	DATE	REVISIONS

Seal

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION.

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TITLE Specialty Clinic Addition Site Plan & Details

PROJECT Brodstone Memorial Hospital
2016 Expansion & Renovation Project
520 East 10th Street
Superior, NE 68978

PROJECT NUMBER 15-1015

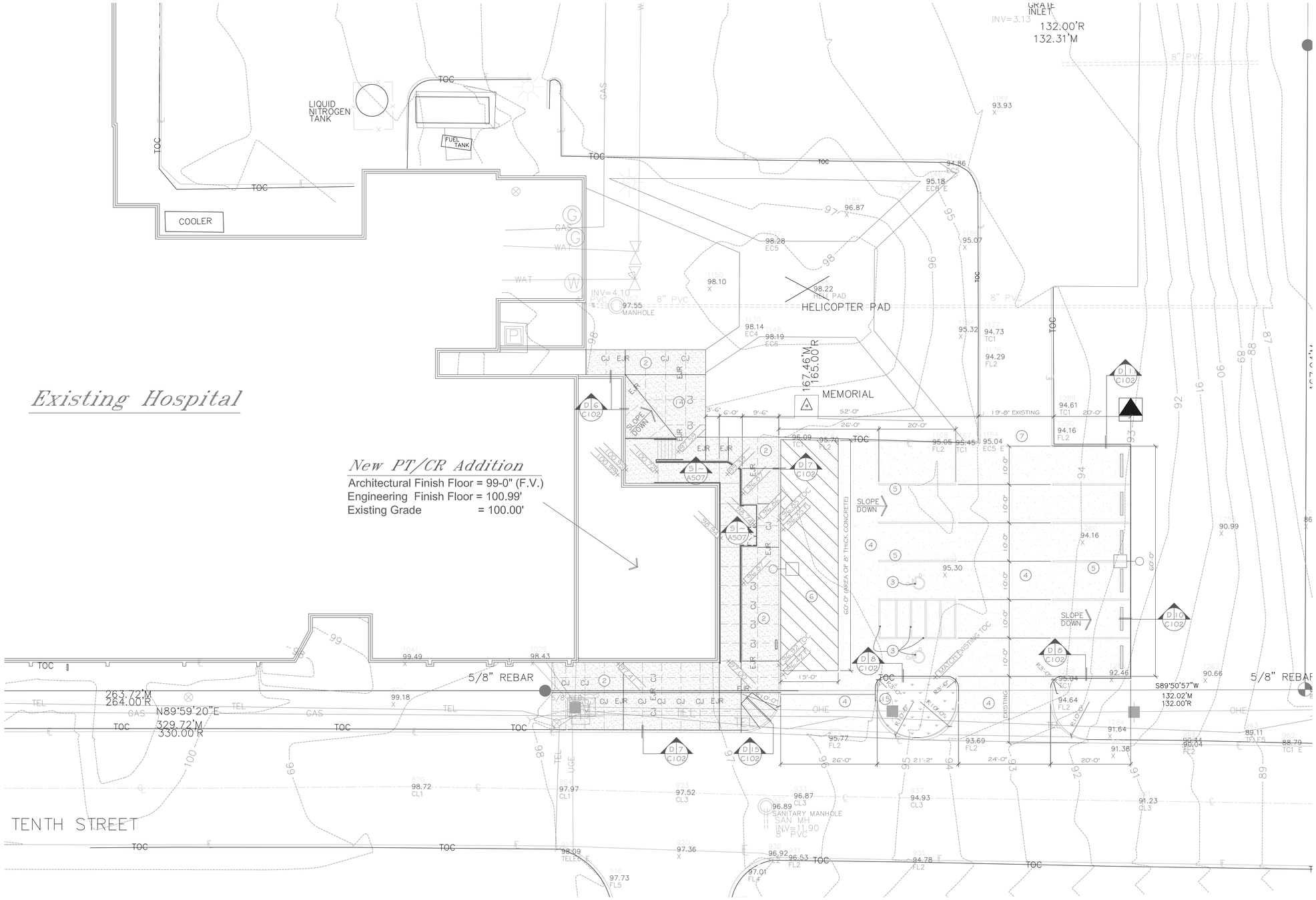
DRAWN BY bpj

CHECKED BY ~

DATE December 2015

SHEET NUMBER C102

REVISION NUMBER △



Physical Therapy Addition Site Plan

SCALE: 3/32" = 1'-0"

SITE PLAN NOTES:

1. STRUCTURAL FROST SLAB SEE STRUCTURE
2. ALL CONCRETE WALKS TYPICAL 6" THICK WITH 6" COMPACTED SAND & GRAVEL BASE COURSE UNLESS OTHERWISE NOTED SEE DETAIL D13/C102 (VERIFY DESIGN w/ SOILS REPORT) w/ CONTROL JOINTS @ 5'-6"o.c. +/- TYPICAL & EXPANSION JOINTS AS NOTED. SLOPE CONCRETE WALK FROM BUILDING & IN DIRECTION OF GROUND SLOPE TYPICAL 1/4"/FT.
3. PROVIDE HANDICAPPED ADA STALL w/ LINES AS SHOWN. PAINTED LINES & SYMBOL SHALL BE ADA BLUE AND BE 4" IN WIDTH. AREA OF PARKING SHALL NOT EXCEED 1:50 SLOPE.
4. 6" THICK CONCRETE PARKING & DRIVE w/ 6" THICK SAND & GRAVEL BASE COURSE SEE DETAIL D12/C102 (VERIFY DESIGN w/ SOILS REPORT). INSTALL EXPANSION JOINTS AS SHOWN & CONTROL JOINTS MAX. 196 SF(14'-0"x14'-0") OR AS SHOWN. SLOPE TO DRAIN ENTIRE PARKING TO THE EAST. MAINTAIN EXISTING GRADES.
5. PROVIDE 20'-0" LONG PARKING LOT STRIPING w/ STALL WIDTHS AS SHOWN ON PLAN. PROVIDE 4" WIDE BRIGHT YELLOW STREET PAINT TYPICAL.
6. 8" THICK CONCRETE DRIVE w/ 6" THICK SAND & GRAVEL BASE COURSE SEE DETAIL D1/C102 (VERIFY DESIGN w/ SOILS REPORT). INSTALL EXPANSION JOINTS AS SHOWN & CONTROL JOINTS MAX. (7'-0"x9'-0"). SLOPE TO DRAIN ENTIRE PARKING TO EAST.
7. PROVIDE NEW CONCRETE PARKING TO EXISTING CONCRETE DRIVE WITH DETAIL D4/C102. COORDINATE INSTALLATION AT AN EXISTING CONTROL JOINT OR NEW CUT LINE OR AT AN APPROPRIATE LOCATION FOR CONSTRUCTION PURPOSES.
8. FEATHER CONCRETE CURB FROM THE EXISTING FLUSH ENTRANCE TO A 6" CURB AN THE EAST SIDE OF THE DROP-OFF.
9. CONNECT COPPER PIPE TO ROOF DRAINS IN WALL CONTINUE THROUGH WALL AND TURN DOWN INTO TRENCH DRAIN PER DETAIL D15/C102. PROVIDE TRENCH DRAIN IN WALL PER DETAIL D23/C102 AT EAST ROOF DRAIN LOCATION.
10. PROVIDE NEW CONCRETE CURB AT THE LOCATION OF THE EXISTING CURB TO MAINTAIN THE WEST SIDE OF THE EXISTING DRIVE.
11. INSTALL GRASS SOD AND CONNECT SPRINKLER SYSTEM TO EXISTING SUPPLY LINE TO MAINTAIN THIS PORTION OF LANDSCAPING.
12. SEED BACK GRASS IN THIS AREA TO MATCH EXISTING SURROUNDING GRASS.
13. SEE DRAWING SHEET M001 & E001 FOR MECHANICAL AND ELECTRICAL SITE COORDINATED ITEMS.
14. MODIFY (RAISE) HEIGHT OF EXISTING LIGHT POLE AT NEW CONCRETE WALK APPROXIMATELY 6"
15. REMOVE GUY WIRE AT THIS POWER POLE AFTER 3 PHASE POWER HAS BEEN REMOVED. COORDINATE WITH CITY.

NO.	DATE	REVISIONS

Seal

SCHEMATIC DESIGN DRAWINGS - NOT FOR CONSTRUCTION.

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TITLE PT Site Plan & Details

PROJECT Brodstone Memorial Hospital
2016 Expansion & Renovation Project
520 East 10th Street
Superior, NE 68978

PROJECT NUMBER
15-1015

DRAWN BY
bpj

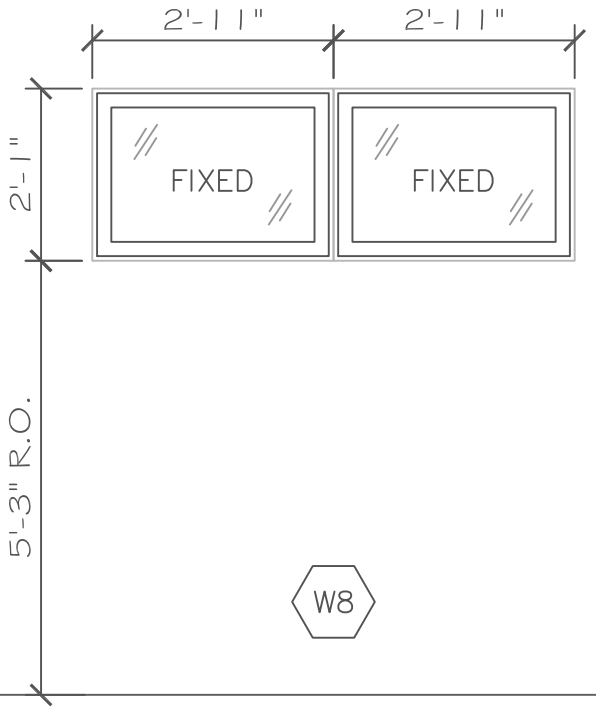
CHECKED BY
~

DATE
December 2015

SHEET NUMBER
C103

REVISION NUMBER

Window Elevation:

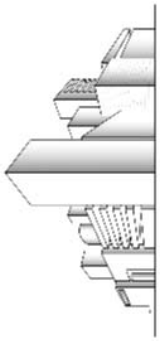


W8

PELLA DESIGNER SERIES (PAIR 3525)
w/ CORDLESS SLIMSHADE BLINDS IN A
SMARTSASH III ARGON-FILLED & LOW-E
COATED BRONZE TINTED GLASS

New W8 Window

SCALE: N.T.S.



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PHONE: 308.532.0412
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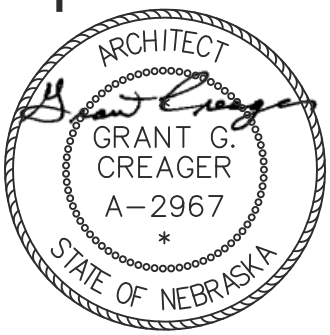
TITLE:
W8 Window

PROJECT:
Brodstone Memorial Hospital

DATE: 4-4-2016
DRAWING: A1021a
FROM SHEET: A1021

Seal



DATE ISSUED	March 24, 2016	ADDENDUM #	1A
ENGINEER	Engineering Technologies, Inc. 825 M Street, Suite 200 Lincoln, NE 68508	PROJECT	Brodstone Hospital – Specialty Clinic Addition
		ETI PROJECT #	2015-100

The Architect issues this Addendum to all known bidders before receipt of proposals. Bidder shall acknowledge the receipt of this addendum on their proposal sheet and all information contained herein shall become a part of the contract documents.

ADDENDUM:

PRIOR APPROVAL – ELECTRICAL

1. The following manufacturers have received prior approval for bidding purposes subject to shop drawing review:

A. List Equipment Here	List Manufacturer Here
Light Fixture Type 1, 1E, 2, 2E, 3, 3E, 4, 11, 11E, 23, 23E, 27, 27E, 29, 29E, 34, 34E, 35, 42, 42E, 43, 44	Metalux
Light Fixture Type 5	Element
Light Fixture Type 6, 7, 8, 22, 22E	Portfolio
Light Fixture Type 10	Cole Lighting
Light Fixture Type 14	Fail-Safe
Light Fixture Type 15, 16	Certolux
Light Fixture Type 30, 31	SSL
Light Fixture Type 32, 33, 45	McGraw-Edison
Light Fixture Type 40	Atlantic
Light Fixture Type 41	Kichler

SPECIFICATIONS – ELECTRICAL

1. Sections 275124, Intercom Systems:
   A. Provide video capabilities for intercom between Office A005 and Exterior Door A100, complete with cabling, as recommended by manufacturer.

DRAWINGS – ELECTRICAL

1. Sheet E301a, Lower Level Area “A” – Electrical:
   A. Change volume control symbol in Office A005, to an intercom station symbol.

2. Sheet E313a, Roof Plan Area “A” – Electrical:
   A. Provide self-regulating heat tape, in gutters and downspouts, at locations shown on Sheet A104a. Heat tape shall extend a minimum of 8’-0” up associated roof valleys and a minimum of 12” down associated downspouts. Circuit to Panel G. Provide a complete and operational UL system. Submit layout and product data, for engineer’s review. Install in accordance with manufacturer’s instructions.

END OF ADDENDUM 1A

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OMAHA: 1111 N.13th Street, Suite 216, Omaha, NE 68102 P 402.330.2772 F 402.330.2630

DATE ISSUED	3/31/2016	ADDENDUM #	1B
ENGINEER	Engineering Technologies, Inc. 825 M Street, Suite 200 Lincoln, NE 68508	PROJECT	Brodstone Hospital – Specialty Clinic Addition
		ETI PROJECT #	2015-100

The Architect issues this Addendum to all known bidders before receipt of proposals. Bidder shall acknowledge the receipt of this addendum on their proposal sheet and all information contained herein shall become a part of the contract documents.

ADDENDUM:

PRIOR APPROVAL – MECHANICAL

1. The following manufacturers have received prior approval for bidding purposes subject to shop drawing review:
   A.

List Equipment Here	List Manufacturer Here
DIFFUSERS, REGISTERS, AND GRILLES	NAILOR
VARIABLE AIR VOLUME BOXES	NAILOR
HVAC POWER VENTILATORS	JENCO FANS
AIR INLETS AND OUTLETS	AMERICAN WARMING AND VENTILATING
PACKAGED OUTDOOR CENTRAL-STATION AHU	ADDISON
DUCTLESS SMALL SPLIT SYSTEM HEATING/COOLING	LG
VARIABLE REFRIGERANT FLOW (VRF) HVAC SYSTEM	LG
EMERGENCY EYEWASH	STINGRAY SYSTEMS, BRADLEY
THERMOSTATIC MIXING VALVE	LAWLER
FAUCETS	MOEN COMMERCIAL
BALANCING VALVES	PRO HYDRONIC SPECIALTIES
ELECTRIC WATER HEATER	LOCHINVAR
SINKS	JUST
SERVICE SINKS	T&S
COMBINATION VALVES	NEXUS
ROOF HOODS	LOREN COOK
ELECTRIC WALL HEATERS	RAYWALL

DRAWINGS – MECHANICAL

1. Sheet M001 Site Plan Mechanical:
   A. Tie new 6” fire service into existing 8” main and extend to clinic addition as shown on attachment 1M. Install PIV as shown, see Post Indicator Valve Detail on attachment 1M.

2. Sheet M500 Fire Sprinkler Plan:
   A. Bring in 6” fire service into clinic basement Storage 2 A003, see attachment 2M. See fire service riser detail shown on attachment 2M. Extend fire department connection as shown on attachment 2M up through chase on first floor.

3. Sheet M110a Lower Level Area “A” Sanitary, Waste & Vent:
   A. Extend 4” waste to Storage 2 A003 in clinic addition to location shown on attachment 3M. Install floor drain (FD-1) as shown on attachment 3M for fire service riser. Install 2” vent as shown on attachment 3M.

PRIOR APPROVAL – ELECTRICAL

1. The following manufacturers have received prior approval for bidding purposes subject to shop drawing review:
   A.

List Equipment Here	List Manufacturer Here
Light Fixture Type 1, 1E, 2, 2E, 3, 3E	Day-Brite
Light Fixture Type 6, 7	Lightolier
Light Fixture Type 12, 12E	Day-Brite
Light Fixture Type 17	LBL

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OMAHA: 1111 N.13th Street, Suite 216, Omaha, NE 68102 P 402.330.2772 F 402.330.2630

Light Fixture Type 19, 19E	Day-Brite
Light Fixture Type 22, 22E	Lightolier
Light Fixture Type 23, 23E, 26, 27, 27E, 29, 29E	Day-Brite
Light Fixture Type 32, 33	Philips
Light Fixture Type 34, 34E, 35, 35E, 42, 42E , 43, 44, 44E	Day-Brite

DRAWINGS – ELECTRICAL

1. Sheet E001:
   A. Provide switch for new post indicator valve (PIV) and provide 3/4" conduit and connect to fire alarm system. See attached Sheet E001 Attachment No. 1.

2. Sheet E101a:
   A. Stairs 179: Remove existing wall heater, conduit and conductors back to its source above south door in Stairs 179. See attached Sheet E101a Attachment No. 1.

3. Sheet E101d:
   A. Remove (2) existing cameras on east exterior wall. Return to Owner. See attached Sheet E101d Attachment No. 1.
   B. Delete exterior light fixture shown on south exterior wall of Mechanical Equipment 154. Light fixture does not exist. See attached Sheet E101d Attachment No. 1.

4. Sheet E211d:
   A. PT Pool 110: Change (1) light fixture Type 42E to Type 44E.
   B. Treatment D115: Change (1) 2x2 light fixture Type 3 to Type 42.
   C. Delete (1) light fixture Type 33 from south exterior wall of Mechanical Equipment 154. See attached Sheet E211d Attachment No. 1.

5. Sheet E400 – Light Fixture Schedule:
   A. Light Fixture Type 11 lamp type shall be ”LED, 3500K, 4000 lumens, 44W.”
   B. Light Fixture Type 11E lamp type shall be ”LED, 3500K, 4000 lumens, 44W.”
   C. Light Fixture Type 26 shall be 3500K color temperature.
   D. Light Fixture Type 44 lamp type shall be “LED, 3500K, 3300 lumens, 29W.”

END OF ADDENDUM 1B

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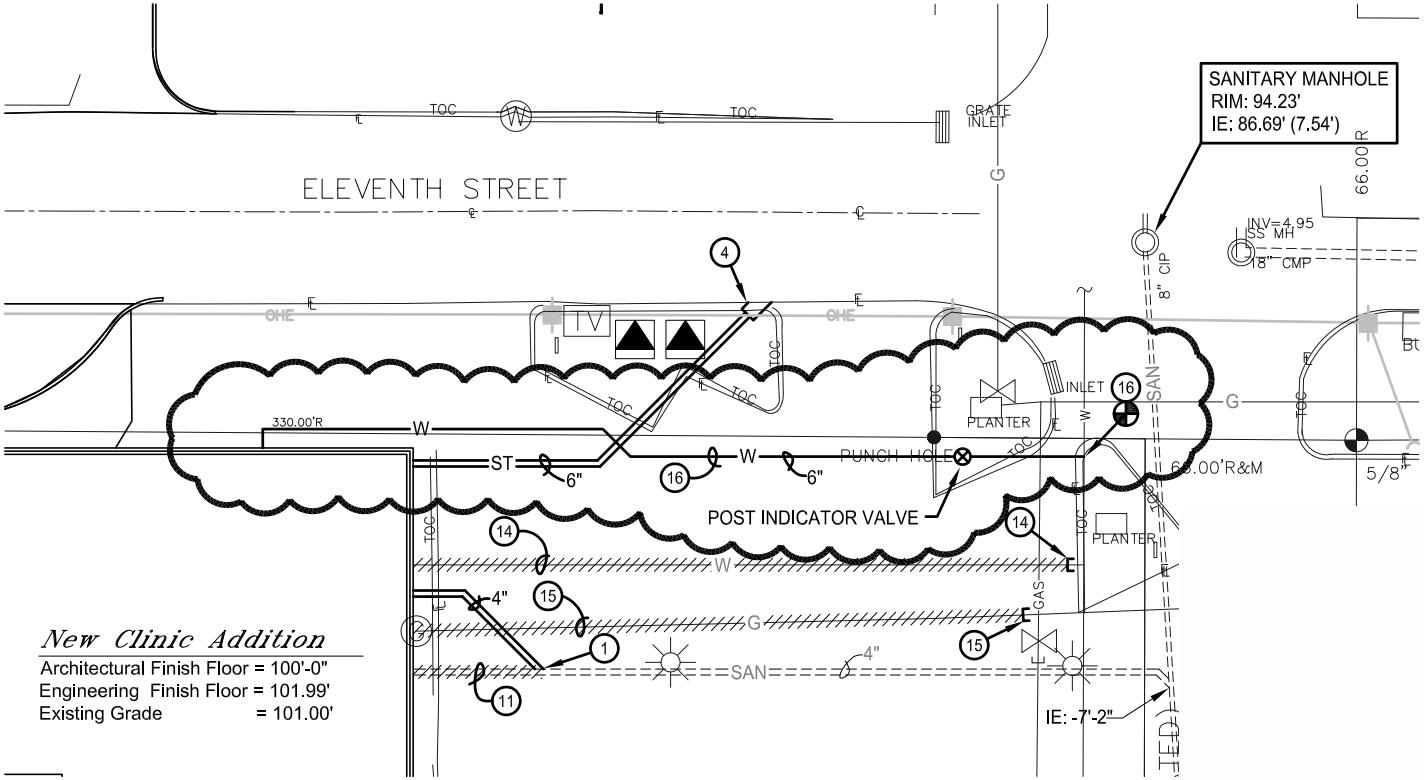
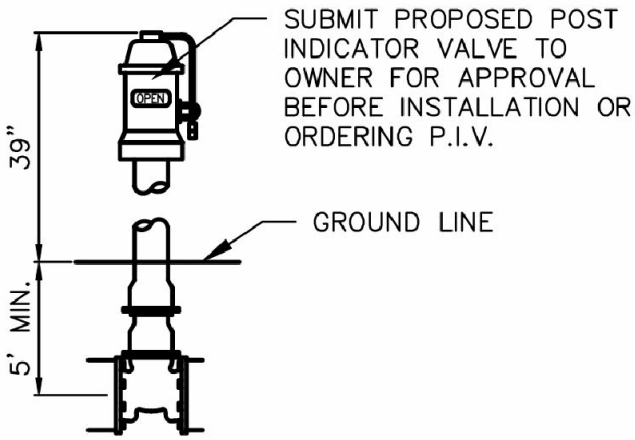
OMAHA: 4559 S. 133rd Street, Omaha, NE 68137 P 402.330.2772 F 402.330.2630





16. TIE NEW 6" FIRE SERVICE INTO EXISTING 8" WATER MAIN FOR NEW ADDITION. INSTALL POST INDICATOR VALVE AS SHOWN, SEE DETAIL SHOWN ABOVE. SEE SHEET M500 FOR CONTINUATION.

NOTE:
VALVE LOCATION SHALL MEET ALL LOCAL AND STATE REQUIREMENTS. CONTRACTOR SHALL VERIFY LOCATION WITH BUILDING INSPECTOR AND STATE FIRE MARSHAL PRIOR TO INSTALLATION.

POST INDICATOR VALVE DETAIL

NOT TO SCALE

Brodstone Memorial Hospital
Site Plan - Mechanical

SCALE: 1" = 30'-0"

TJM

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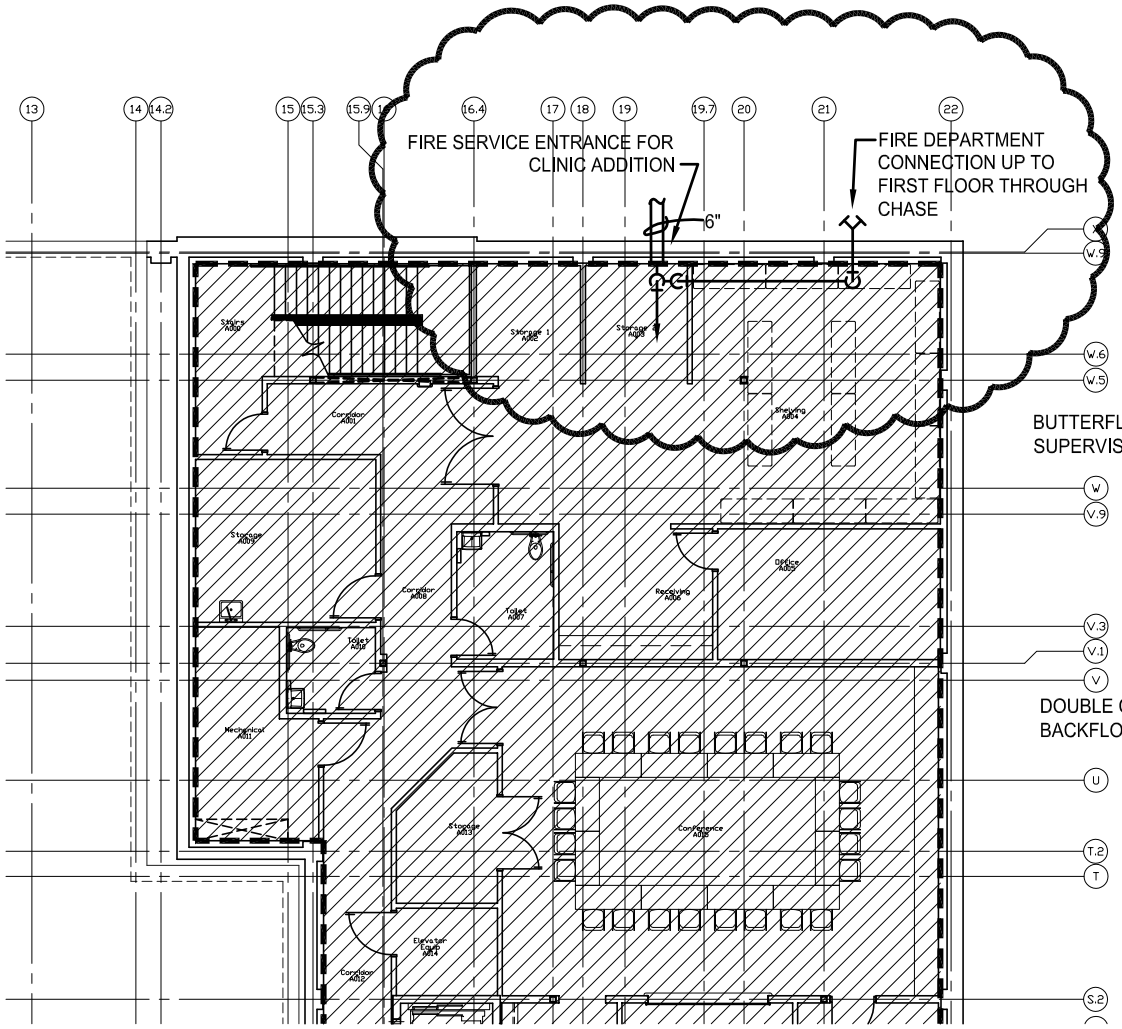
1111 N. 13th Street , Suite 216 | Omaha, NE 68102 | P 402.330.2772 | F 402.330.2630
ETI Project No: 2015-100

ADD #2

SHEET M001

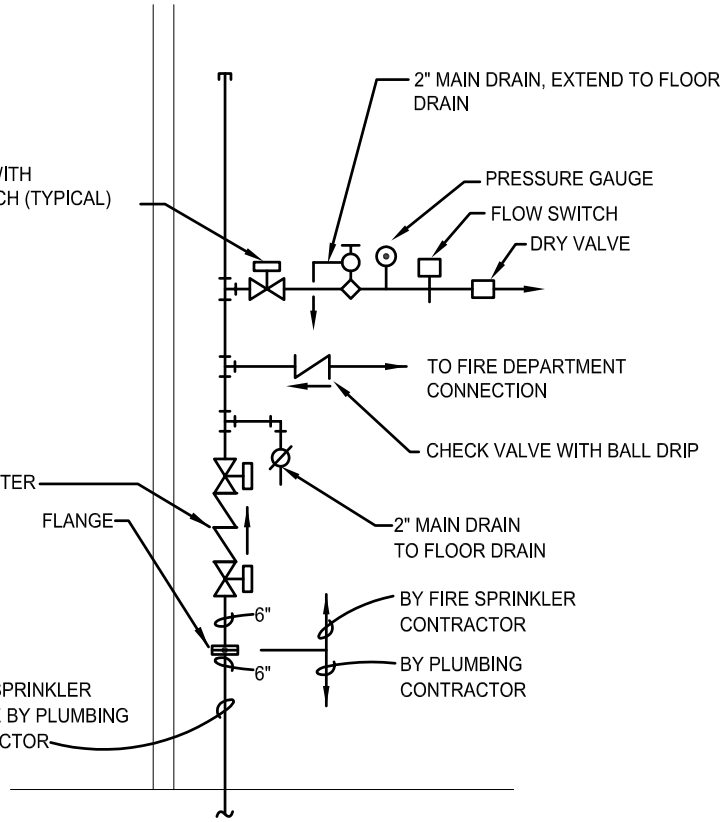
ATTACHMENT NO. 1M

3.31.2016



Lower Level Area "A" Fire Sprinkler Plan

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



FIRE SERVICE ENTRANCE DETAIL

NO SCALE

Brodstone Memorial Hospital
Fire Sprinkler Plan

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

TJM

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Mechanical & Electrical Building Solutions
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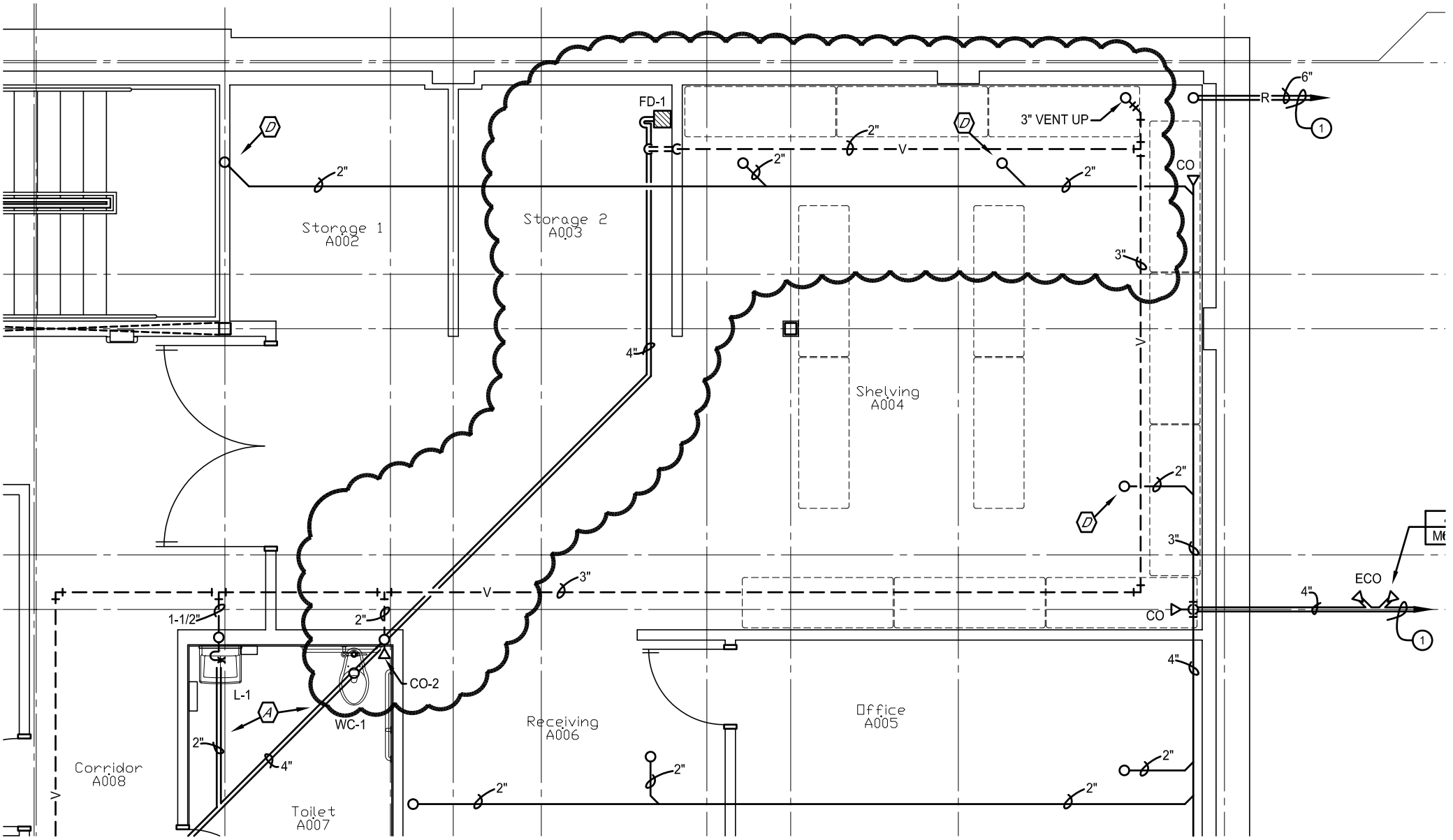
1111 N. 13th Street , Suite 216 | Omaha, NE 68102 | P 402.330.2772 | F 402.330.2630
ETI Project No: 2015-100

ADD #2

SHEET
M500

ATTACHMENT NO.
2M

3.31.2016



Lower Level Area "A" Sanitary Waste & Vent

SCALE: 3/16" = 1'-0"

Brodstone Memorial Hospital
Lower Level Area "A" Sanitary, Waste & Vent

SCALE: 3/16" = 1'-0" | TJM

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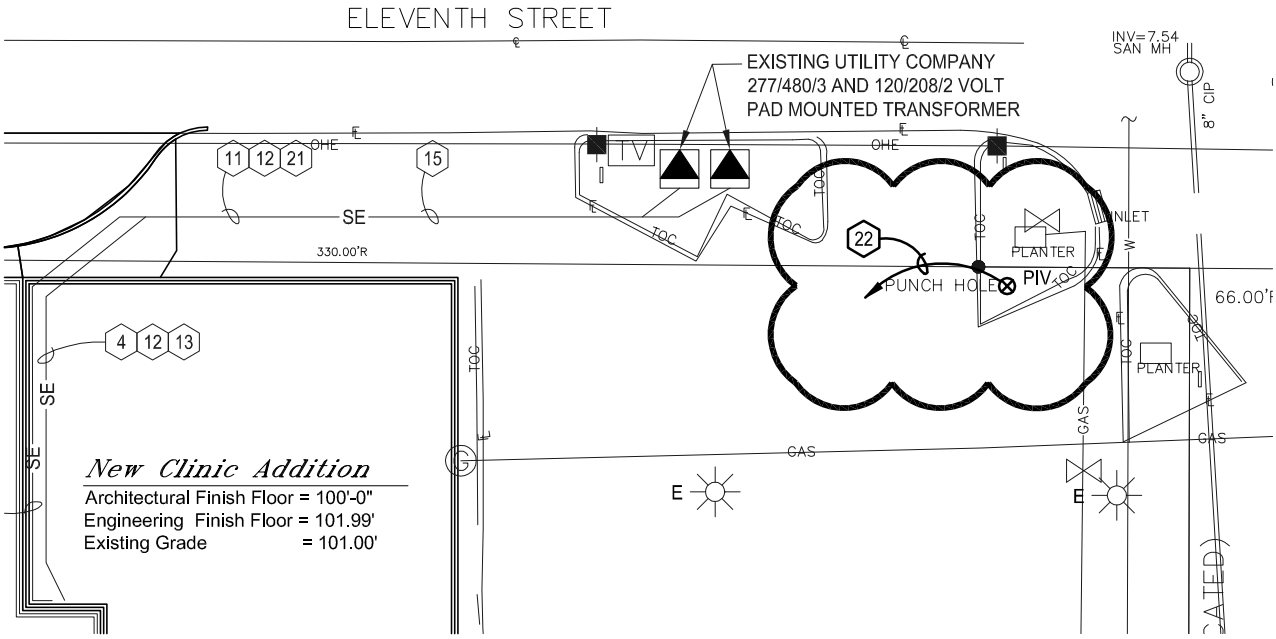
ETI Project No: 2015-100

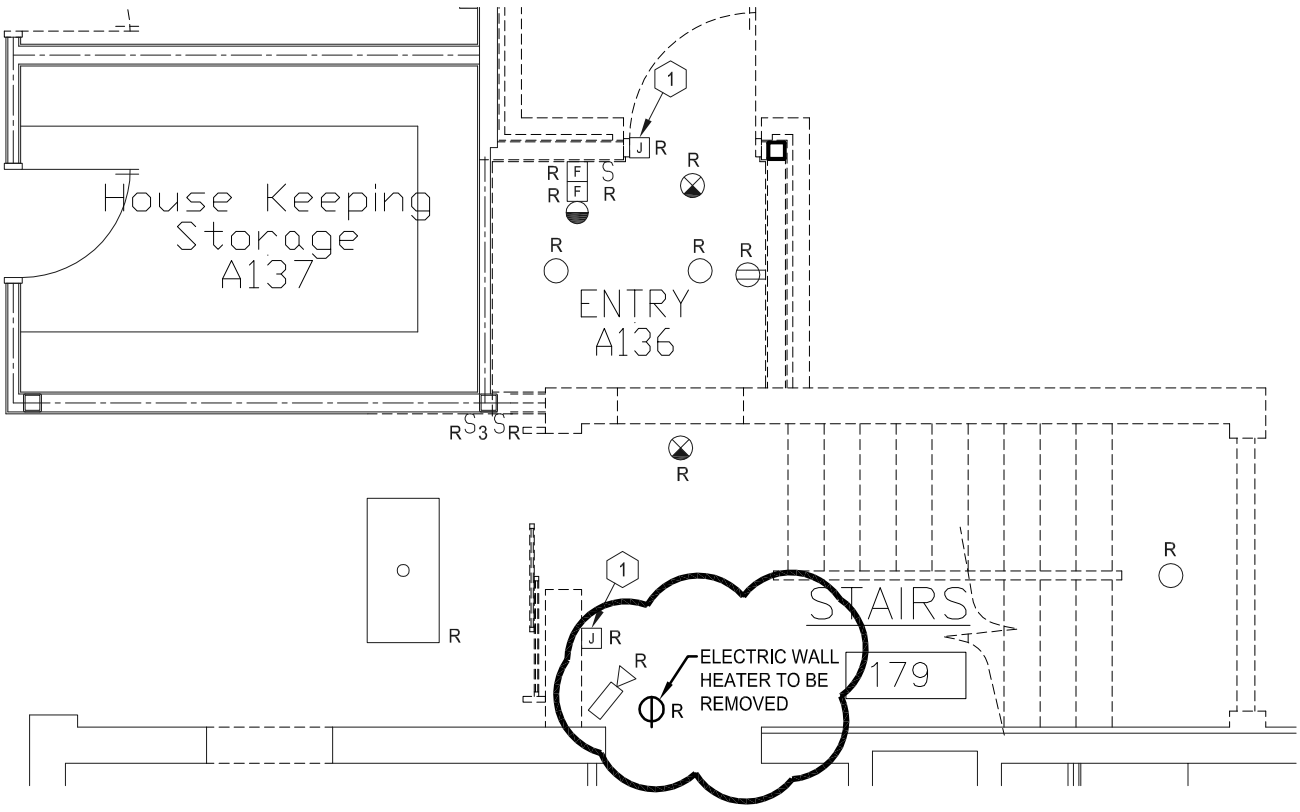
ADD #2	
SHEET	M110a
ATTACHMENT NO.	3M
3.31.2016	

SHEET NOTES

22. PROVIDE SWITCH FOR PIV AND PROVIDE 3/4" CONDUIT AND CONNECT TO FIRE ALARM SYSTEM.



BRODSTONE MEMORIAL HOSPITAL SITE PLAN - ELECTRICAL		Engineering Technologies Inc. Mechanical & Electrical Building Solutions 825 M Street, Suite 200 I Lincoln, NE 68508 P 402.476.1273 I F 402.476.1274 1111 N. 13th Street, Suite 216 I Omaha, NE 68102 I P 402.330.2772 I F 402.330.2630 ETI Project No: 2015-100	ADD#2 SHEET E001 ATTACHMENT NO. 1 04/01/16
SCALE: 1" = 30'-0"	TSK		



BRODSTONE MEMORIAL
HOSPITAL - MAIN LEVEL
AREA "A" - DEMOLITION

SCALE: 3/16" = 1'-0" | TSK

Engineering Technologies Inc.
Mechanical & Electrical Building Solutions
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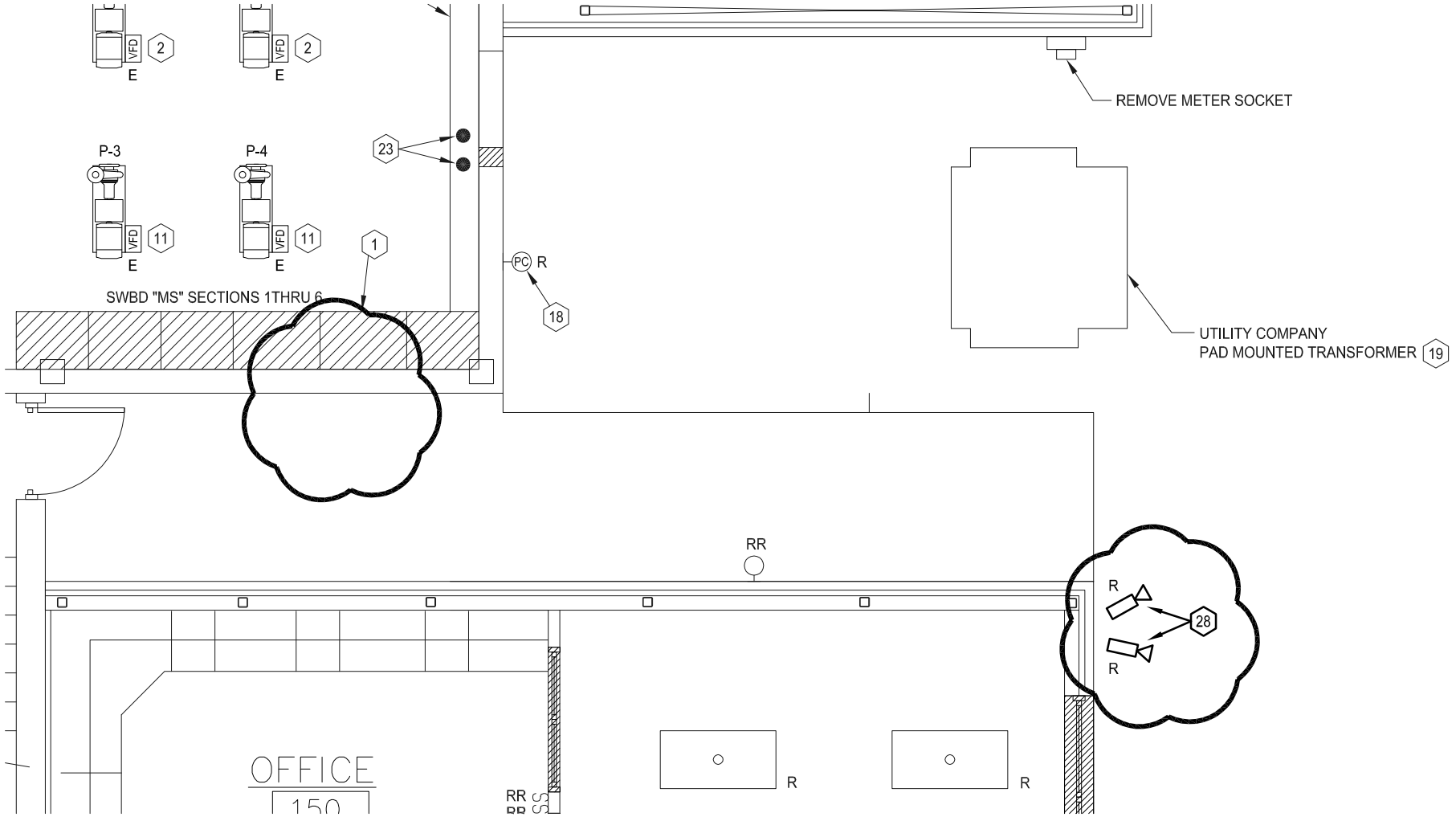
P 402.476.1273 I F 402.476.1274
1111 N. 13th Street, Suite 216 I Omaha, NE 68102 I P 402.330.2772 I F 402.330.2630
ETI Project No: 2015-100

ADD#2
SHEET E101a
ATTACHMENT NO. 1
04/01/16

SHEET NOTES

28. CAMERAS TO BE REMOVED AND RETURNED TO OWNER.



BRODSTONE MEMORIAL HOSPITAL
MAIN LEVEL AREA "D" - DEMOLITION

SCALE: 3/16" = 1'-0"

TSK

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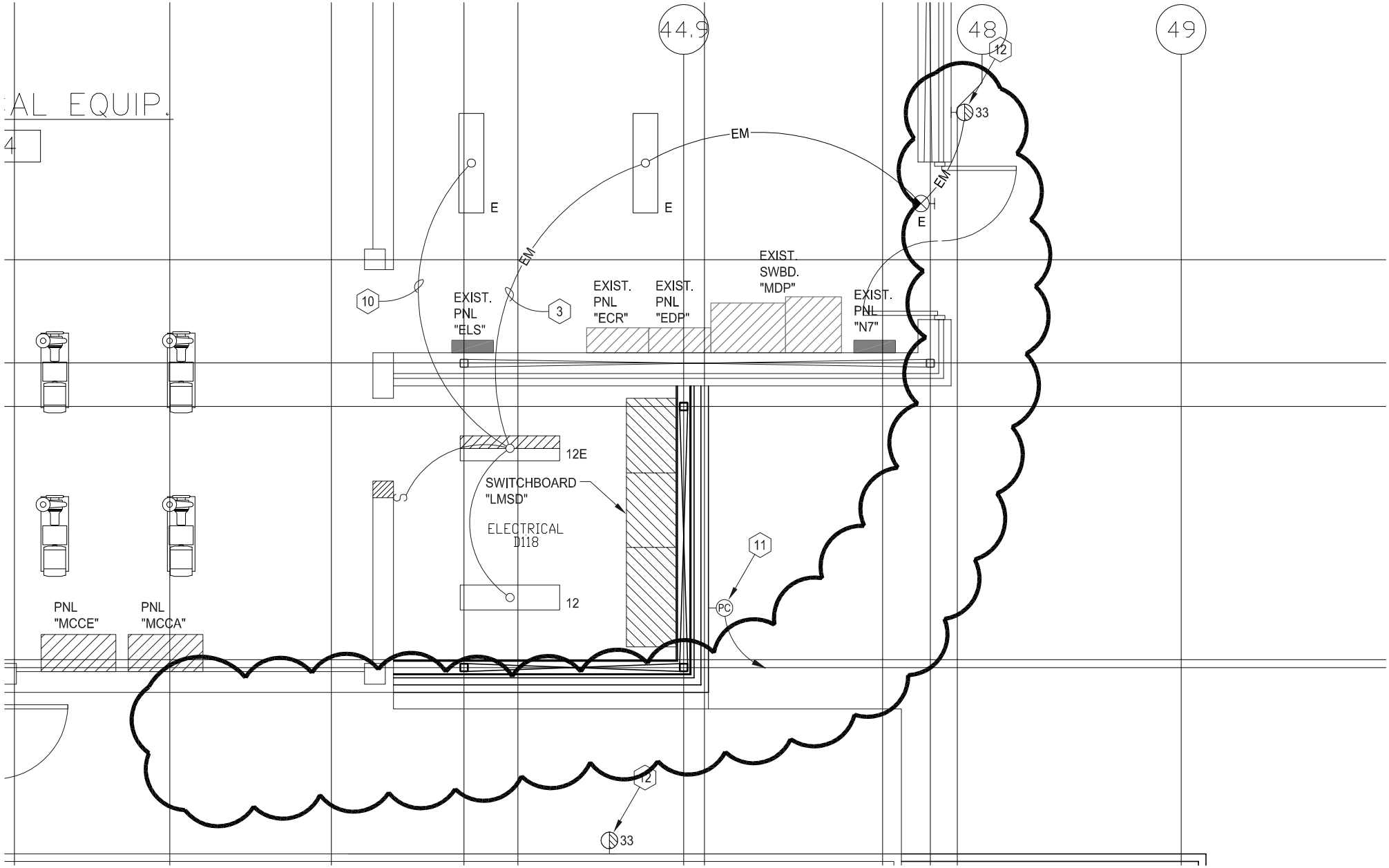
ETI Project No: 2015-100

ADD#2

SHEET
E101d

ATTACHMENT NO.
1

04/01/16



BRODSTONE MEMORIAL HOSPITAL
MAIN LEVEL AREA "D" - LIGHTING

SCALE: 3/16" = 1'-0"

TSK

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