ISSUANCE

ISSUED FOR BID/ PERMIT

PROJECT



VILLAGE OF GURNEE PUBLIC WORKS MATERIAL BIN RECONSTRUCTION PROJECT

1151 KILBOURNE ROAD GURNEE, IL 60031

PROJECT TEAM

ARCHITECT

HOLABIRD & ROOT

HOLABIRD & ROOT 140 SOUTH DEARBORN STREET SUITE 500 CHICAGO, ILLINOIS TELEPHONE 312.357.1771 WWW.HOLABIRD.COM

STRUCTURAL ENGINEER **♦IMEG** IMEG CORP. 1100 WARRENVILLE ROAD SUITE 400 W NAPERVILLE, ILLINOIS TELEPHONE 630.527.2320 WWW.IMEGCORP.COM

APPLICABLE CODES & ORDINANCES

2012 INTERNATIONAL BUILDING CODE (EFFECTIVE MAY 1, 2012)

2012 INTERNATIONAL BUILDING CODE (EFFECTIVE MAY 1, 2012)
2012 INTERNATIONAL MECHANICAL CODE (EFFECTIVE MAY 1, 2012)
2012 INTERNATIONAL FUEL GAS CODE (EFFECTIVE MAY 1, 2012)
2012 INTERNATIONAL FIRE CODE (EFFECTIVE MAY 1, 2012)
2012 INTERNATIONAL WILDLAND URBAN INTERFACE CODE (EFFECTIVE MAY 1, 2012)

STATE OF ILLINOIS PLUMBING CODE 2002 NATIONAL ELECTRIC CODE

ILLINOIS ACCESSIBILITY CODE

ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES VILLAGE OF GURNEE ZONING ORDINANCE

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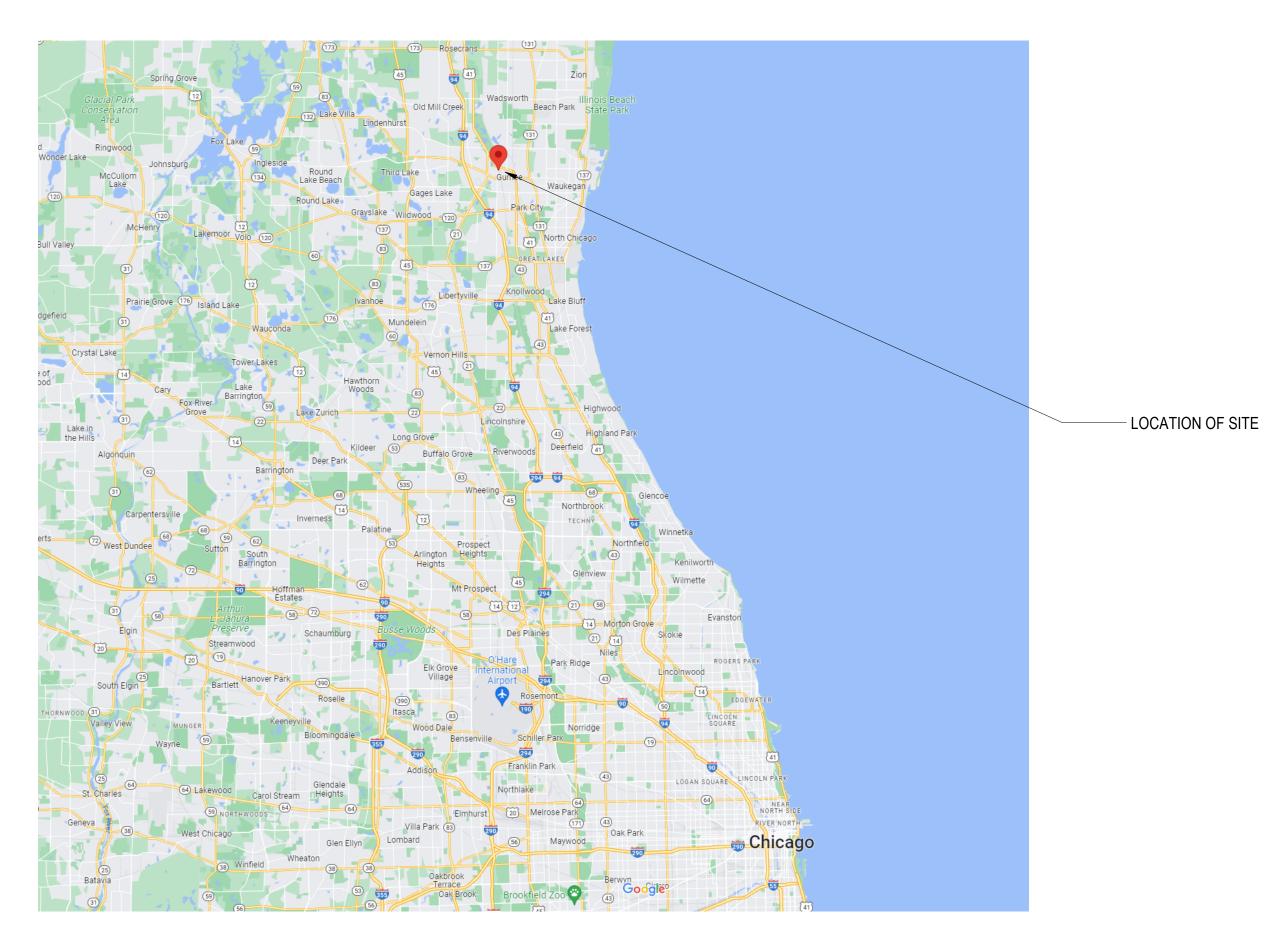
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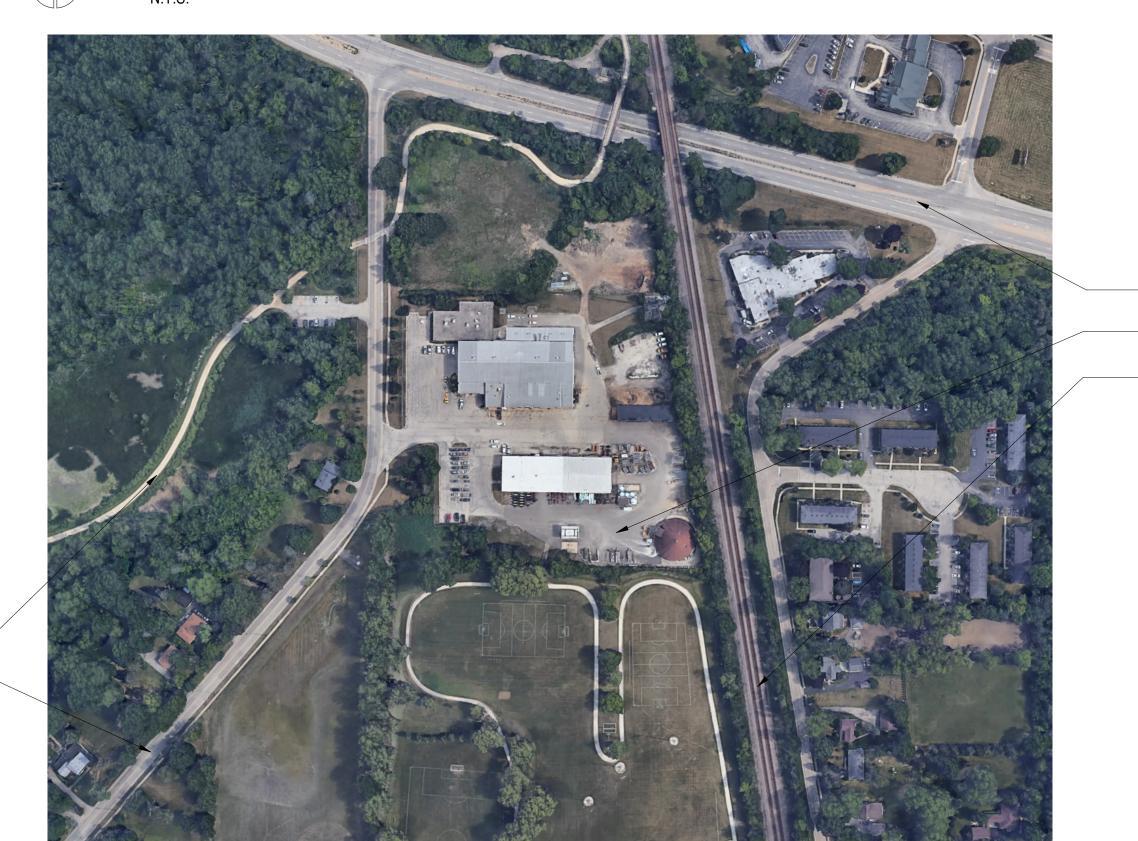
FOUNDATION AND ROOF FRAMING PLANS

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16065 Project Number D. PORTH A. STRANE US HWY 41 Checked G. GRUNLOH Proj. Arch./Eng.

LOCATION OF SITE

- RAILWAY

No. Date



1 06/23/2023 ISSUE FOR BID/ PERMIT

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HOLABIRD & ROOT

140 South Dearborn Chicago, IL 60603 Tel: 312 357 1771 Fax: 312 357 1909

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Village of Gurnee Public Works Material Bin Reconstruction Project

1151 Kilbourne Rd, Gurnee, IL 60031

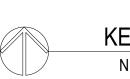
Project Name

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DES PLAINES RIVER TRAIL KILBOURNE RD -



KEY PLAN

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SECTION 024119 - SELECTIVE DEMOLITION
                                                                                                                                                                                                  PART 1 - GENERAL
PART 1 - GENERAL
                                                                                                                                                                                                  1.1 SUMMARY
1.1 SUMMARY
                                                                                                                                                                                                        A. Section Includes:

    A. Section Includes

                                                                                                                                                                                                                  Roof-edge drainage systems.
                Demolition and removal of selected site elements.
                                                                                                                                                                                                  1.2 ACTION SUBMITTALS
1.2 MATERIALS OWNERSHIP
                                                                                                                                                                                                        A. Product Data: For each type of product.
     A. Unless otherwise indicated, demolition waste becomes property of Contractor.
                                                                                                                                                                                                   PART 2 - PRODUCTS
1.3 PREINSTALLATION MEETINGS
                                                                                                                                                                                                  2.1 PERFORMANCE REQUIREMENTS
     A. Predemolition Conference: Conduct conference at Project site.
                                                                                                                                                                                                        A. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes to prevent buckling, opening of joints, hole elongation, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects.
1.4 INFORMATIONAL SUBMITTALS
                                                                                                                                                                                                              Provide clips that resist rotation and avoid shear stress as a result of thermal movements. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
     A. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property. Indicate proposed locations and

    Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.

            construction of barriers.
                                                                                                                                                                                                  2.2 ROOF-EDGE DRAINAGE SYSTEMS
      B. Predemolition photographs or video.
                                                                                                                                                                                                        A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1.5 FIELD CONDITIONS
                                                                                                                                                                                                                   ATAS International, Inc.
      A. Conditions existing at time of inspection for bidding purpose will be maintained by Owner as far as practical.
                                                                                                                                                                                                                     Architectural Products Company.
      B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.
                                                                                                                                                                                                                     Berger; division of OmniMax International, Inc.
            Storage or sale of removed items or materials on-site is not permitted.
                                                                                                                                                                                                                    Castle Metal Products.
           Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.
                                                                                                                                                                                                                    Drexel Metals.
            Arrange selective demolition schedule so as not to interfere with Owner's operations.
                                                                                                                                                                                                                   Merchant & Evans Inc.
PART 2 - PRODUCTS
                                                                                                                                                                                                                   Metal-Era, Inc.
2.1 PERFORMANCE REQUIREMENTS
                                                                                                                                                                                                                   SAF Perimeter Systems Division.
     A. Regulatory Requirements: Comply with governing EPA notification regulations before beginning selective demolition. Comply with hauling and disposal regulations of authorities
                                                                                                                                                                                                             Gutters: Manufactured in uniform section lengths not exceeding 12 feet (3.6 m), with matching corner units, ends, outlet tubes, and other accessories. Elevate back edge at least 1 inch (25 mm) above front edge. Furnish flat-stock gutter straps, gutter brackets,
            having jurisdiction
                                                                                                                                                                                                               expansion joints, and expansion-joint covers fabricated from same metal as gutters.
     B. Standards: Comply with ASSE A10.6 and NFPA 241.
                                                                                                                                                                                                                  Zinc-Coated Steel: 24 gauge.
PART 3 - EXECUTION
                                                                                                                                                                                                                   Gutter Profile: Style H according to SMACNA's "Architectural Sheet Metal Manual."
3.1 PROTECTION
                                                                                                                                                                                                                   Corners: Factory mitered and mechanically clinched and sealed watertight.
     A. Temporary Protection: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.
                                                                                                                                                                                                                   Gutter Supports: Manufacturer's standard supports as selected by Architect with finish matching the gutters.
      B. Temporary Shoring: Design, provide, and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of
                                                                                                                                                                                                                   Gutter Accessories: Continuous screened leaf guard with sheet metal frame
            construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.
                                                                                                                                                                                                         C. Downspouts: Plain rectangular complete with mitered elbows, manufactured from the following exposed metal. Furnish with metal hangers, from same material as downspouts, and anchors.
      C. Remove temporary barricades and protections where hazards no longer exist.
                                                                                                                                                                                                                  Zinc-Coated Steel: 24 gauge.
3.2 SELECTIVE DEMOLITION
                                                                                                                                                                                                        D. Zinc-Coated Steel Finish: Two-coat fluoropolymer.
     A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations
                                                                                                                                                                                                               1. Color: As selected by Architect from manufacturer's full range.
            of governing regulations and as follows:
                                                                                                                                                                                                  2.3 MATERIALS
                Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction.
                                                                                                                                                                                                        A. Zinc-Coated (Galvanized) Steel Sheet: ASTM A 653/A 653M, G90 (Z275) coating designation.
                Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
                                                                                                                                                                                                  2.4 MISCELLANEOUS MATERIALS
                Dispose of demolished items and materials promptly.
                                                                                                                                                                                                        A. Fasteners: Manufacturer's recommended fasteners, suitable for application and designed to meet performance requirements. Furnish the following unless otherwise indicated:
      B. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other
                                                                                                                                                                                                                   Exposed Penetrating Fasteners: Gasketed screws with hex washer heads matching color of sheet metal.
            adjacent occupied and used facilities.
                                                                                                                                                                                                                   Fasteners for Zinc-Coated (Galvanized) Steel Sheet: Series 300 stainless steel or hot dipped zinc coated steel according to ASTM A 153/A, 153M or ASTM F2329.
     C. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition.
                                                                                                                                                                                                       B. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D 1187/D 1187M.
3.3 CLEANING
                                                                                                                                                                                                   PART 3 - EXECUTION
     A. Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction
                                                                                                                                                                                                  3.1 INSTALLATION, GENERAL
                Do not allow demolished materials to accumulate on-site.
                                                                                                                                                                                                        A. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by
                Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
      B. Burning: Do not burn demolished materials.
                                                                                                                                                                                                            Fastener Sizes: Use fasteners of sizes that penetrate substrate not less than recommended by fastener manufacturer to achieve maximum pull-out resistance.
       C. Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective
                                                                                                                                                                                                   3.2 ROOF-EDGE DRAINAGE-SYSTEM INSTALLATION
            demolition operations began.
                                                                                                                                                                                                             General: Install components to produce a complete roof-edge drainage system according to manufacturer's written instructions. Coordinate installation of roof perimeter flashing with installation of roof-edge drainage system
                                                                                                                                                                                                             Gutters: Join and seal gutter lengths. Allow for thermal expansion. Attach gutters to firmly anchored gutter supports spaced not more than 24 inches (610 mm) apart. Attach ends with rivets and seal with sealant to make watertight. Slope to downspouts.
                                                                                                                                                                                                                   Install gutter with expansion joints at locations indicated but not exceeding 50 feet (15.2 m) apart. Install expansion-joint caps.
SECTION 074213.13 - FORMED METAL WALL PANELS
                                                                                                                                                                                                                   Install continuous leaf guards on gutters with noncorrosive fasteners, removable for cleaning gutters.
                                                                                                                                                                                                         C. Downspouts: Join sections with manufacturer's standard telescoping joints. Provide hangers with fasteners designed to hold downspouts securely to walls and 1 inch (25 mm) away from walls; locate fasteners at top and bottom and at approximately 60 inches
PART 1 - GENERAL
                                                                                                                                                                                                              (1500 mm) o.c.
1.1 SUMMARY
                                                                                                                                                                                                               1. Provide elbows at base of downspouts at grade to direct water away from building.

    A. Section Includes

                Box rib wall panels
1.2 ACTION SUBMITTALS
                                                                                                                                                                                                   SECTION 099600 - HIGH-PERFORMANCE COATINGS
      A. Product Data: For each type of product.
       B. Shop Drawings: Include fabrication and installation layouts of metal panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings,
                                                                                                                                                                                                   PART 1 - GENERAL
            closures, and accessories; and special details.
                                                                                                                                                                                                         1.1 SUMMARY
           Samples: For each type of metal panel indicated
                                                                                                                                                                                                              A. Section includes surface preparation and the application of high-performance coating systems
1.3 INFORMATIONAL SUBMITTALS
                                                                                                                                                                                                         1.2 ACTION SUBMITTALS
      A. Warranties: Samples of special warranties
                                                                                                                                                                                                               A. Product Data: For each type of product. Include preparation requirements and application instructions.
1.4 CLOSEOUT SUBMITTALS
                                                                                                                                                                                                               B. Samples: For each type of coating system and in each color and gloss of topcoat indicated.

 A. Maintenance data.

                                                                                                                                                                                                   PART 2 - PRODUCTS
1.5 QUALITY ASSURANCE
                                                                                                                                                                                                        2.1 MANUFACTURERS
     A. Installer Qualifications: An entity that employs installers and supervisors who are trained and approved by manufacturer.
                                                                                                                                                                                                              A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1.6 WARRANTY
                                                                                                                                                                                                                         Beniamin Moore & Co.
     A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal panel systems that fail in materials or workmanship within
                                                                                                                                                                                                                         PPG Paints; PPG Industries, Inc.
            specified warranty period
                                                                                                                                                                                                                         Tnemec Company, Inc. (Basis-of-Design)
                Warranty Period: Two years from date of Substantial Completion.
                                                                                                                                                                                                         B. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in the High-Performance Coating Schedule for the coating category indicated.
           Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of
                                                                                                                                                                                                   2.2 HIGH-PERFORMANCE COATINGS, GENERAL
            factory-applied finishes within specified warranty period.
                                                                                                                                                                                                         A. MPI Standards: Products shall comply with MPI standards indicated and shall be listed in its "MPI Approved Products Lists."
             1. Finish Warranty Period: 10 years from date of Substantial Completion.
                                                                                                                                                                                                        B. Material Compatibility:
 PART 2 - PRODUCTS
                                                                                                                                                                                                                    Materials for use within each paint system shall be compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2.1 PERFORMANCE REQUIREMENTS
                                                                                                                                                                                                                   For each coat in a paint system, products shall be recommended in writing by topcoat manufacturers for use in paint system and on substrate indicated.
     A. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E 1592:
                                                                                                                                                                                                                   Products shall be of same manufacturer for each coat in a coating system.
                 Wind Loads: As indicated on Drawings
                                                                                                                                                                                                        C. Colors: As indicated in High-Performance Coating Schedule.
                Other Design Loads: As indicated on Drawings.
                                                                                                                                                                                                  PART 3 - EXECUTION
      B. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of
                                                                                                                                                                                                  3.1 EXAMINATION
            joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
                                                                                                                                                                                                             Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
                Temperature Change (Range): 120 deg F (67 deg C), ambient; 180 deg F (100 deg C), material surfaces.
                                                                                                                                                                                                             Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
2.2 METAL WALL PANELS
                                                                                                                                                                                                                  Concrete: Per manufacturer's recommendations.
     A. General: Provide factory-formed metal panels designed to be field assembled by concealed attachment in 12" nominal width with panel corrugations that are mechanically attached
                                                                                                                                                                                                         C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
            to wall supports and do not have any exposed fasteners on the panel face for attachment to the wall supports. Include accessories required for weathertight installation.
                                                                                                                                                                                                        D. Proceed with coating application only after unsatisfactory conditions have been corrected.
       B. Box-Rib-Profile, Concealed-Fastener Metal Wall Panels: Formed with raised, box-shaped ribs, evenly spaced across panel width, and with rib/recess sides angled 87 degrees or
                                                                                                                                                                                                                  Application of coating indicates acceptance of surfaces and conditions.
                                                                                                                                                                                                  3.2 PREPARATION
                Basis-of-Design Product: Subject to compliance with requirements, provide Pac-Clad, Precision Series Wall Panels, Box Rib 1 or comparable product.
                                                                                                                                                                                                             Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and coating systems indicated
                Metallic-Coated Steel Sheet: Zinc-coated (galvanized) steel sheet complying with ASTM A 653/A 653M, G90 (Z275) coating designation, or aluminum-zinc alloy-coated steel
                                                                                                                                                                                                             Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and
                  sheet complying with ASTM A 792/A 792M, Class AZ50 (Class AZM150) coating designation; structural quality. Prepainted by the coil-coating process to comply with
                  ASTM A 755/A 755M.
                                                                                                                                                                                                                   After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
                a. Nominal Thickness: 24 gauge.
                 b. Exterior Finish: Two-coat fluoropolymer.
                                                                                                                                                                                                                  Cast in Place Concrete, Interior Exposed: Allow new cast-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Verify concrete dryness in accordance with ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of
                      Color: Interstate Blue.
                                                                                                                                                                                                                    Concrete Subfloor Using Anhydrous Calcium Chloride" (moisture vapor transmission should not exceed three pounds per 1,000 square feet in a 24 hour period), F 2170 "Standard Test Method for Determining Relative Humidity in Concrete using in situ
                Rib Spacing: 4.0 inches (102 mm) o.c.
                                                                                                                                                                                                                   Probes" (relative humidity should not exceed 80%), or D 4263 "Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method" (no moisture present). Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint
                Panel Coverage: 12 inches.
                                                                                                                                                                                                                   Surface Preparation Standards and ICRI Technical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide an ICRI-CSP 2-
                Panel Height: 1-3/8 inches
                                                                                                                                                                                                                   3 surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer. All surfaces must be clean, dry, and free of oil, grease, form release agents and other contaminants.
2.3 MISCELLANEOUS MATERIALS
                                                                                                                                                                                                                   Cast in Place Concrete, Exterior Exposed: All surfaces must be clean, dry, and free of oil, grease, form release agents and other contaminants. Allow new concrete to cure 7 days. Level protrusions. Reference SSPC-SP13/NACE 6.
     A. Miscellaneous Metal Subframing and Furring: ASTM C 645, cold-formed, metallic-coated steel sheet, ASTM A 653/A 653M, G90 (Z275 hot-dip galvanized) coating designation or
                                                                                                                                                                                                                   Metal Structural Members: Prepare all surfaces to be coated in accordance with the methods outline in SSPC-SP6 Commercial Blast Cleaning with a minimum angular anchor profile of 1.5 mils. All surfaces must be clean, dry, and free of contamination prior
            ASTM A 792/A 792M, Class AZ50 (Class AZM150) aluminum-zinc-alloy coating designation unless otherwise indicated. Provide manufacturer's standard sections as required for
                                                                                                                                                                                                                   to the application of coating.
            support and alignment of metal panel system.
                                                                                                                                                                                                  3.3 APPLICATION
      B. Panel Accessories: Provide components required for a complete, weathertight panel system including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants,
                                                                                                                                                                                                             Apply high-performance coatings according to manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual."
            gaskets, fillers, closure strips, and similar items. Match material and finish of metal panels unless otherwise indicated.
                                                                                                                                                                                                             Apply coatings to produce surface films without cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Produce sharp glass lines and color breaks.
                Closures: Provide closures at eaves and rakes, fabricated of same metal as metal panels.
                                                                                                                                                                                                   3.4 HIGH-PERFORMANCE COATING SCHEDULE
                 Backing Plates: Provide metal backing plates at panel end splices, fabricated from material recommended by manufacturer.
                                                                                                                                                                                                        A. Concrete Substrates. Vertical Surfaces:
                Closure Strips: Closed-cell, expanded, cellular, rubber or crosslinked, polyolefin-foam or closed-cell laminated polyethylene; minimum 1-inch- (25-mm-) thick, flexible closure
                                                                                                                                                                                                                  HPC1: Aliphatic Polyester Polyurethane over High-Build Epoxy System:
                  strips; cut or premolded to match metal panel profile. Provide closure strips where indicated or necessary to ensure weathertight construction.
                                                                                                                                                                                                                   a. Prime Coat: Epoxy, matching intermediate coat.
       C. Flashing and Trim: Provide flashing and trim formed from same material as metal panels as required to seal against weather and to provide finished appearance. Locations include,
                                                                                                                                                                                                                               Basis-of-Design: Tnemec; Series N69 Hi-Build Epoxoline II
            but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fasciae, parapet caps, soffits, reveals, and fillers. Finish flashing and trim with same finish
                                                                                                                                                                                                                               Thickness: Spray apply and back roll one coat to achieve a minimum spreading rate of 135 sq. ft. per gallon to all surfaces
                                                                                                                                                                                                                   b. Patching: Fill voids as required by the Architect with Series 215 Surfacing Epoxy.
      D. Panel Fasteners: Self-tapping screws designed to withstand design loads. Provide exposed fasteners with heads matching color of metal panels by means of plastic caps or factory-
                                                                                                                                                                                                                        Intermediate Coat: Epoxy, high build, satin.
            applied coating. Provide EPDM or PVC sealing washers for exposed fasteners.
                                                                                                                                                                                                                              Basis-of-Design: Tnemec; Series N69 Hi-Build Epoxoline II
       E. Panel Sealants: Provide sealant type recommended by manufacturer that are compatible with panel materials, are nonstaining, and do not damage panel finish.
                                                                                                                                                                                                                               Thickness: Achieve minimum spreading rate of 150 sq. ft. per gallon to all surfaces.
                Sealant Tape: Pressure-sensitive, 100 percent solids, gray polyisobutylene compound sealant tape with release-paper backing; 1/2 inch (13 mm) wide and 1/8 inch (3 mm)
                                                                                                                                                                                                                   d. Topcoat: Polyurethane, two component, pigmented, semi-gloss.
                                                                                                                                                                                                                               Basis-of-Design: Tnemec; Series V290 CRU
                 Joint Sealant: ASTM C 920; as recommended in writing by metal panel manufacturer
                                                                                                                                                                                                                               Color at HPC1: 31GR Slate Gray.
                Butyl-Rubber-Based, Solvent-Release Sealant: ASTM C 1311.
                                                                                                                                                                                                                              Color at HPC1a: 02SF Lemon Yellow/Safety.
2.4 FABRICATION
                                                                                                                                                                                                                             Dry Film Thickness: 2.0 to 3.0 mils.
           General: Fabricate and finish metal panels and accessories at the factory, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance
                                                                                                                                                                                                                  HPC2: Acrylic Emulsion System:
            requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
                                                                                                                                                                                                                   a. Prime Coat: Acrylic, flat, matching intermediate coat.
      B. Provide panel profile, including major ribs and intermediate stiffening ribs, if any, for full length of panel.
                                                                                                                                                                                                                         1) Basis-of-Design: Tnemec; W.B. Tneme-crete Series 180
            Sheet Metal Flashing and Trim: Fabricate flashing and trim to comply with manufacturer's recommendations and recommendations in SMACNA's "Architectural Sheet Metal Manual"
                                                                                                                                                                                                                             Dry Film Thickness: 4.0 to 8.0 mils.
            that apply to design, dimensions, metal, and other characteristics of item indicated
                                                                                                                                                                                                                         Intermediate Coat: Acrylic, flat.
2.5 FINISHES
                                                                                                                                                                                                                              Basis-of-Design: Tnemec; W.B. Tneme-crete Series 180
     A. Panels and Accessories:
                                                                                                                                                                                                                             Dry Film Thickness: 4.0 to 8.0 mils.
                Two-Coat Fluoropolymer: AAMA 621. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat.
                                                                                                                                                                                                                         Topcoat: Acrylic, flat.
PART 3 - EXECUTION
                                                                                                                                                                                                                              Basis-of-Design: Tnemec; W.B. Tneme-crete Series 180
3.1 PREPARATION
                                                                                                                                                                                                                              Color: 31GR Slate Gray.
      A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal panel manufacturer's
                                                                                                                                                                                                                            Dry Film Thickness: 4.0 to 8.0 mils.
            written recommendations.
                                                                                                                                                                                                         B. Steel Substrates
3.2 METAL PANEL INSTALLATION
                                                                                                                                                                                                                  HPC3: Aliphatic Polyester Polyurethane over Zinc-Rich Primer and High-Build Epoxy System:
     A. Panels shall be installed plumb and true in proper alignment and relation to the structural framing.
                                                                                                                                                                                                                   a. Prime Coat: Primer, zinc rich, aromatic urethane.
      B. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings
                                                                                                                                                                                                                              Basis-of-Design: Tnemec; Series 90-97 Tneme-Zinc
            and other components.
                                                                                                                                                                                                                             Dry Film Thickness: 2.5 to 3.5 mils.
      C. Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide concealed
                                                                                                                                                                                                                         Intermediate Coat: Epoxy, high build, satin.
            fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that are permanently watertight.
                                                                                                                                                                                                                              Basis-of-Design: Tnemec; Series N69 Hi-Build Epoxoline II
3.3 CLEANING
                                                                                                                                                                                                                              Dry Film Thickness: 3.0 to 5.0 mils.
     A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On
                                                                                                                                                                                                                         Topcoat: Polyurethane, two component, pigmented, semi-gloss.
            completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
                                                                                                                                                                                                                              Basis-of-Design: Tnemec; Series 1095 Endura-Shield.
```

Color: 32GR Light Gray.

Dry Film Thickness: 2.0 to 5.0 mils.

d. Coat all surfaces of steel framing members. Touch up surfaces after erection to maintain minimum dry thicknesses

SECTION 077100 - ROOF SPECIALTIES

| HOLABIRD & ROOT

140 South Dearborn Chicago, IL 60603 Tel: 312 357 1771 Fax: 312 357 1909

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16065 Project Number A. STRANE A. STRANE Proj. Arch./Eng. G. GRUNLOH

1 06/23/2023

Date

No.



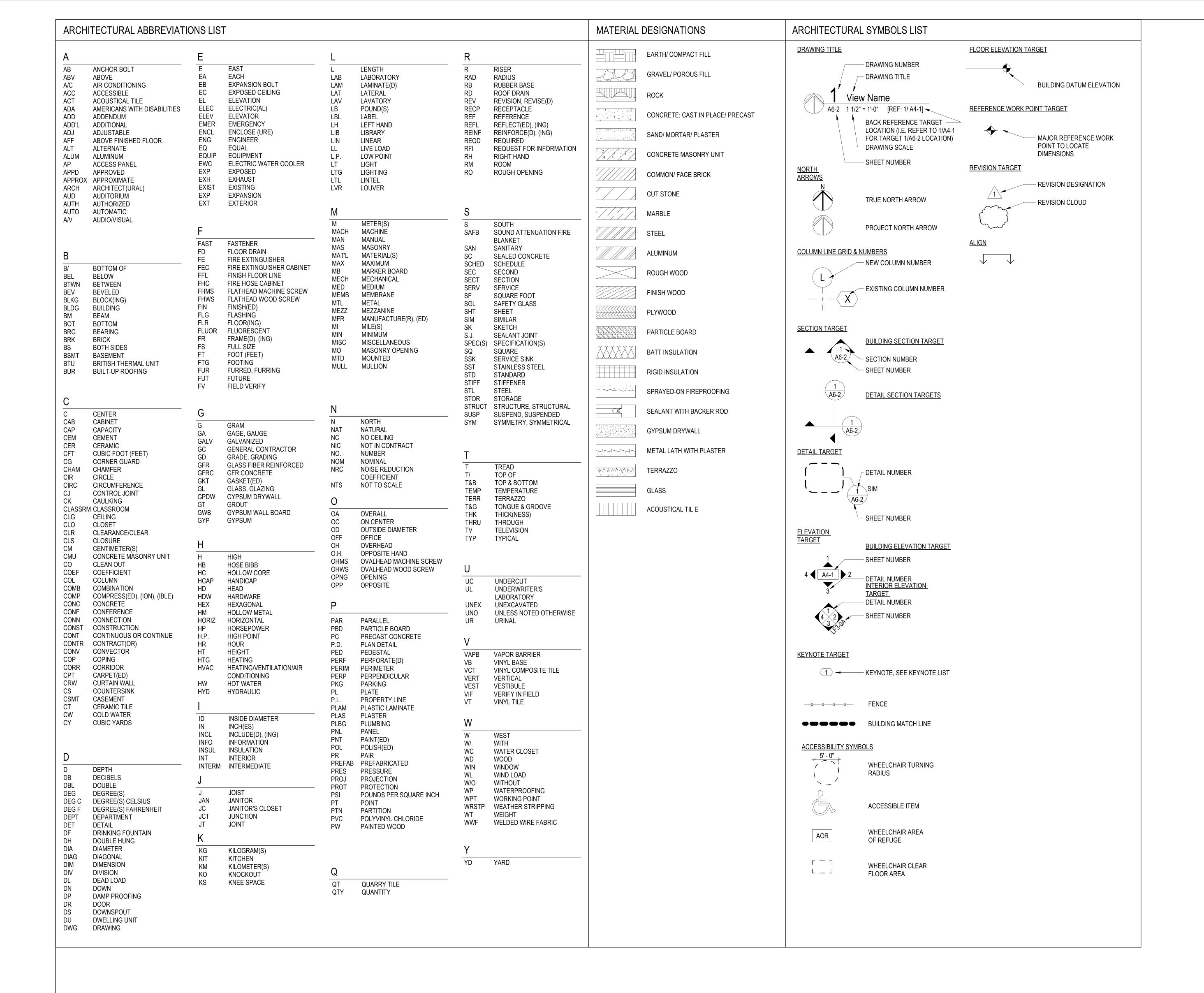
Village of Gurnee Public Works Material Bin Reconstruction Project

1151 Kilbourne Rd, Gurnee, IL 60031

Project Name

ARCHITECTURAL SPECIFICATIONS

Sheet Name





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Village of Gurnee Public Works
Material Bin Reconstruction Project

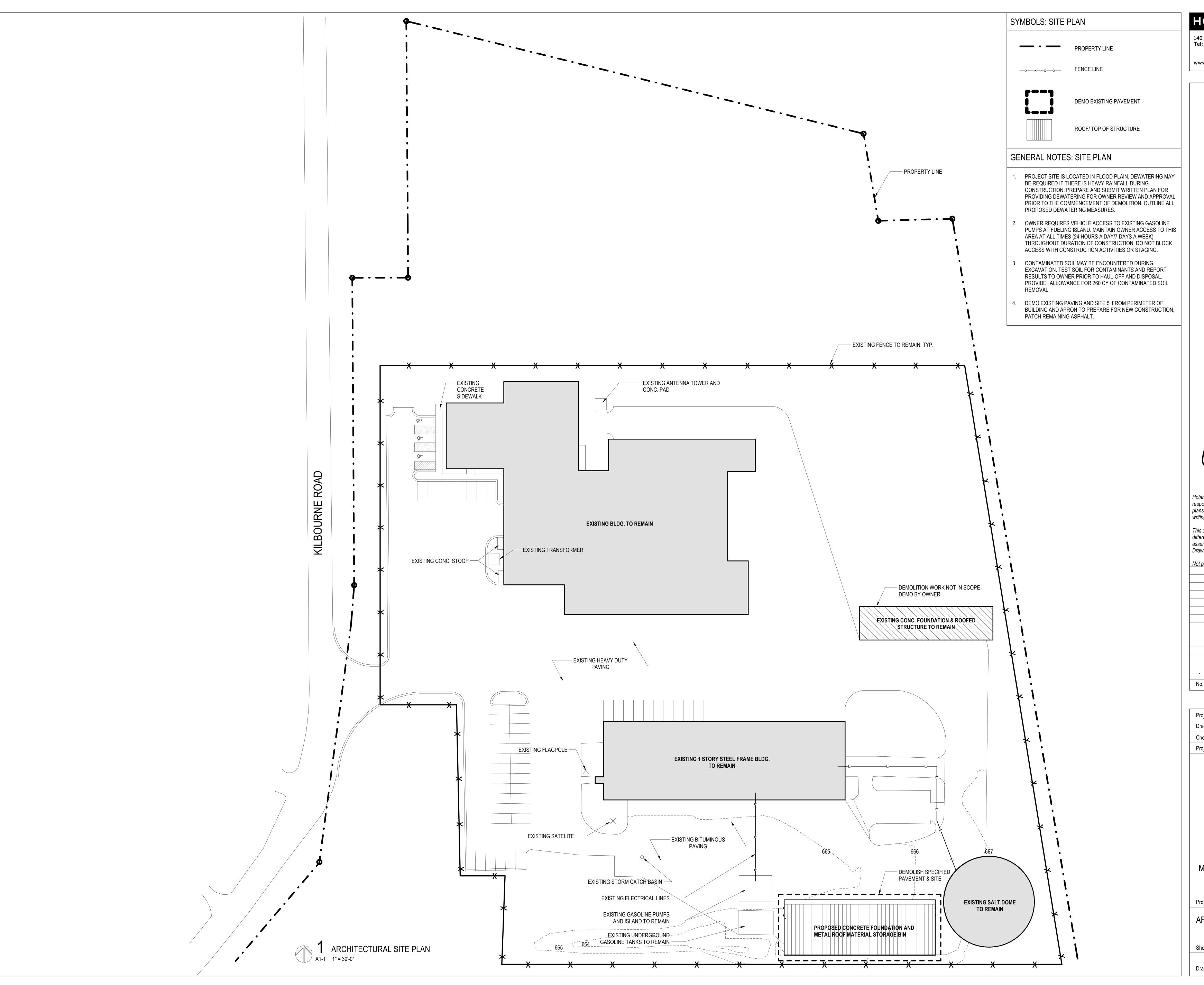
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Project Name

ARCHITECTURAL SYMBOLS & ABBREVIATIONS

Sheet Name

Drawing No. A1-0



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Material Bin Reconstruction Project

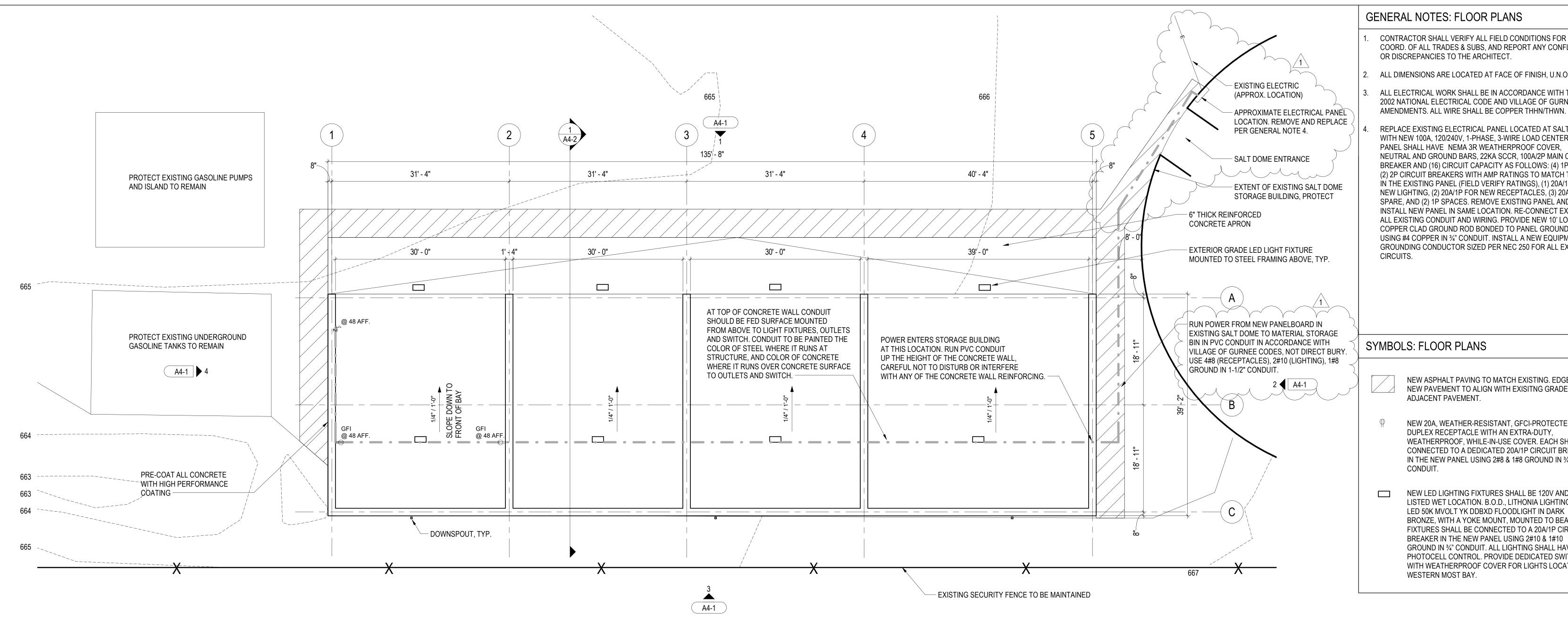
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Project Name

ARCHITECTURAL SITE PLAN

Sheet Name

A1-1



GENERAL NOTES: FLOOR PLANS

- CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS FOR COORD. OF ALL TRADES & SUBS, AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE ARCHITECT.
 - ALL DIMENSIONS ARE LOCATED AT FACE OF FINISH, U.N.O.
 - ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2002 NATIONAL ELECTRICAL CODE AND VILLAGE OF GURNEE
 - REPLACE EXISTING ELECTRICAL PANEL LOCATED AT SALT DOME WITH NEW 100A, 120/240V, 1-PHASE, 3-WIRE LOAD CENTER. PANEL SHALL HAVE NEMA 3R WEATHERPROOF COVER, NEUTRAL AND GROUND BARS, 22KA SCCR, 100A/2P MAIN CIRCUIT BREAKER AND (16) CIRCUIT CAPACITY AS FOLLOWS: (4) 1P AND (2) 2P CIRCUIT BREAKERS WITH AMP RATINGS TO MATCH THOSE IN THE EXISTING PANEL (FIELD VERIFY RATINGS), (1) 20A/1P FOR NEW LIGHTING, (2) 20A/1P FOR NEW RECEPTACLES, (3) 20A/1P SPARE, AND (2) 1P SPACES. REMOVE EXISTING PANEL AND RE-INSTALL NEW PANEL IN SAME LOCATION. RE-CONNECT EXISTING ALL EXISTING CONDUIT AND WIRING. PROVIDE NEW 10' LONG, 3/4" COPPER CLAD GROUND ROD BONDED TO PANEL GROUND BUS USING #4 COPPER IN 3/4" CONDUIT. INSTALL A NEW EQUIPMENT GROUNDING CONDUCTOR SIZED PER NEC 250 FOR ALL EXISTING CIRCUITS.

SYMBOLS: FLOOR PLANS

- NEW ASPHALT PAVING TO MATCH EXISTING. EDGE OF NEW PAVEMENT TO ALIGN WITH EXISITNG GRADE OF ADJACENT PAVEMENT.
- NEW 20A, WEATHER-RESISTANT, GFCI-PROTECTED DUPLEX RECEPTACLE WITH AN EXTRA-DUTY, WEATHERPROOF, WHILE-IN-USE COVER. EACH SHALL BE CONNECTED TO A DEDICATED 20A/1P CIRCUIT BREAKER IN THE NEW PANEL USING 2#8 & 1#8 GROUND IN 3/4" CONDUIT.
- NEW LED LIGHTING FIXTURES SHALL BE 120V AND UL LISTED WET LOCATION. B.O.D., LITHONIA LIGHTING TFX1 LED 50K MVOLT YK DDBXD FLOODLIGHT IN DARK BRONZE, WITH A YOKE MOUNT, MOUNTED TO BEAM. ALL FIXTURES SHALL BE CONNECTED TO A 20A/1P CIRCUIT BREAKER IN THE NEW PANEL USING 2#10 & 1#10 GROUND IN 3/4" CONDUIT. ALL LIGHTING SHALL HAVE PHOTOCELL CONTROL. PROVIDE DEDICATED SWITCH WITH WEATHERPROOF COVER FOR LIGHTS LOCATED IN WESTERN MOST BAY.

GREGORY B.

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07/27/2023	ADDENDUM NO. 4
06/23/2023	ISSUE FOR BID/ PERMIT

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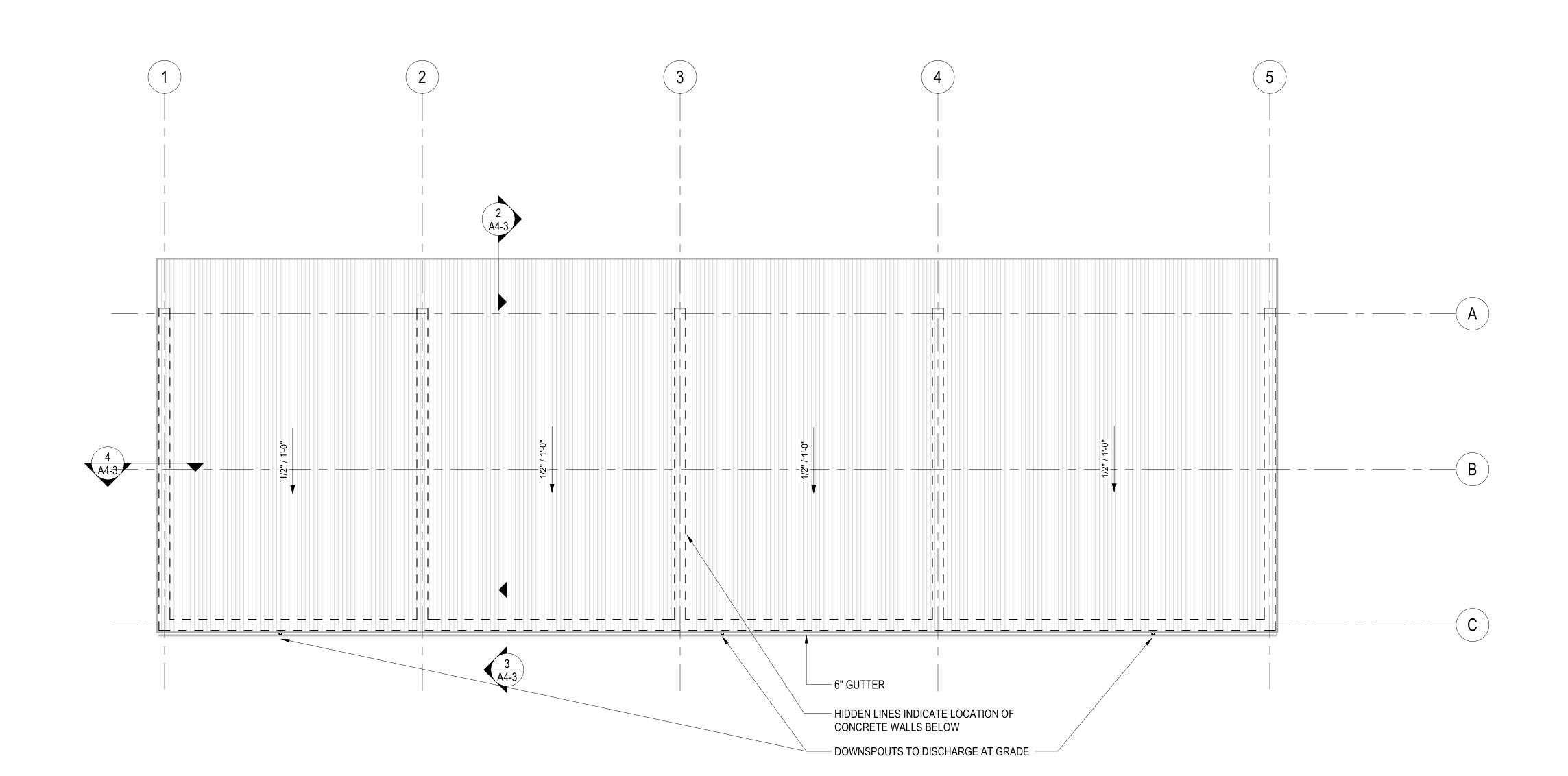
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Project Name

FLOOR PLAN AND ROOF PLAN

Sheet Name

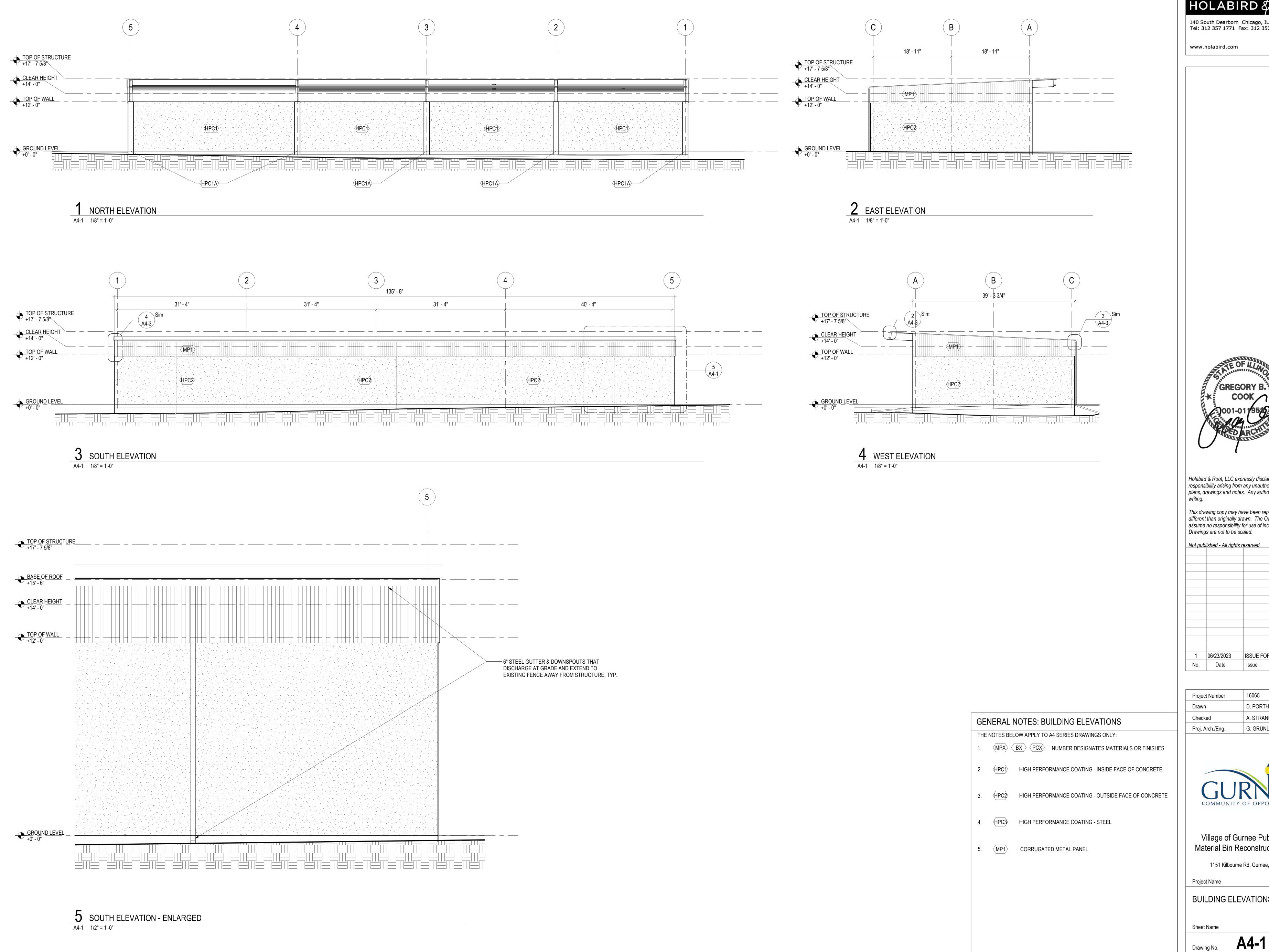
Drawing No. A2-1



2 ROOF PLAN A2-1 1/8" = 1'-0"

FLOOR PLAN

1 FLOOR F A2-1 1/8" = 1'-0"



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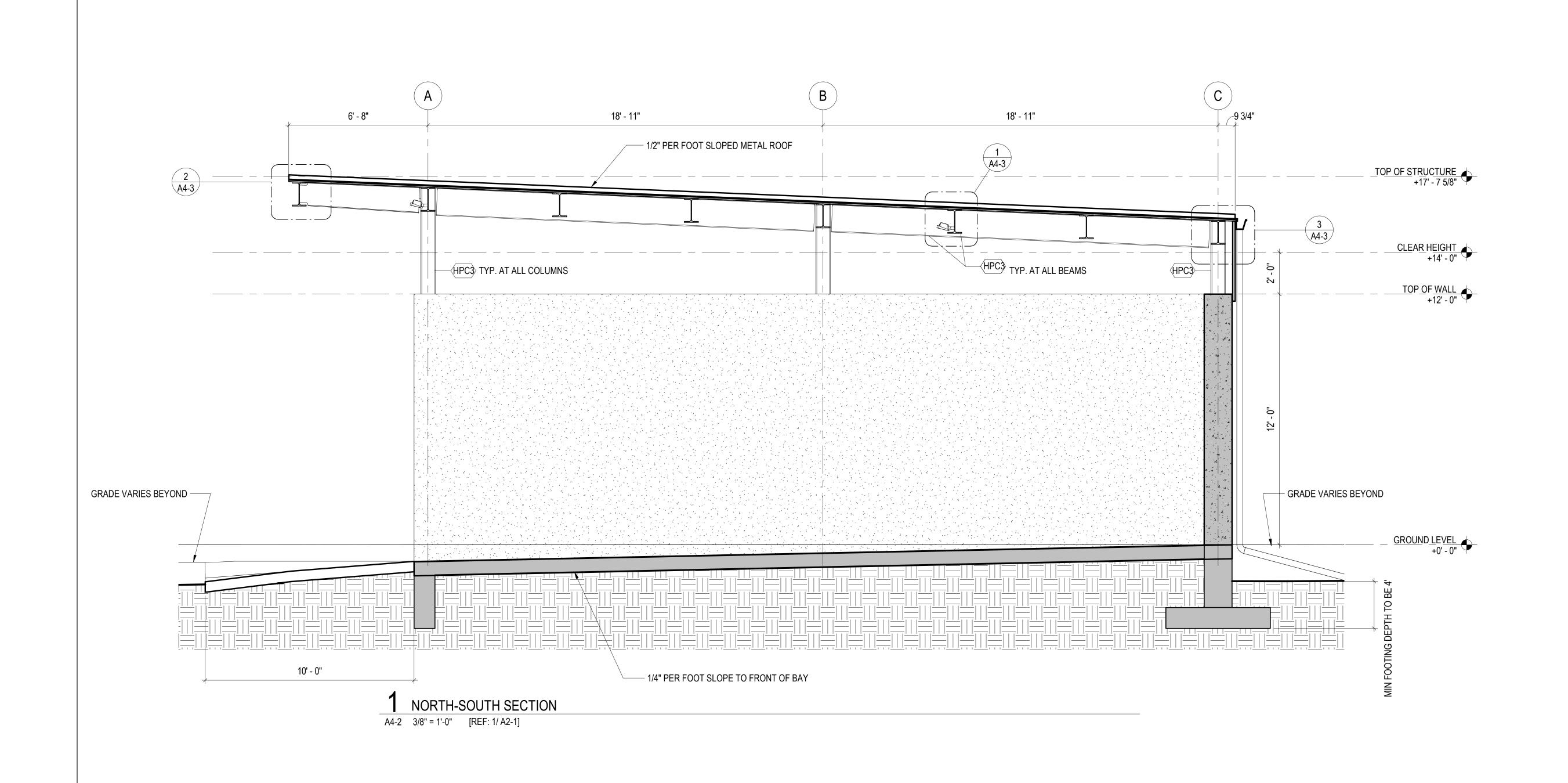
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Village of Gurnee Public Works Material Bin Reconstruction Project

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BUILDING ELEVATIONS





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Village of Gurnee Public Works Material Bin Reconstruction Project

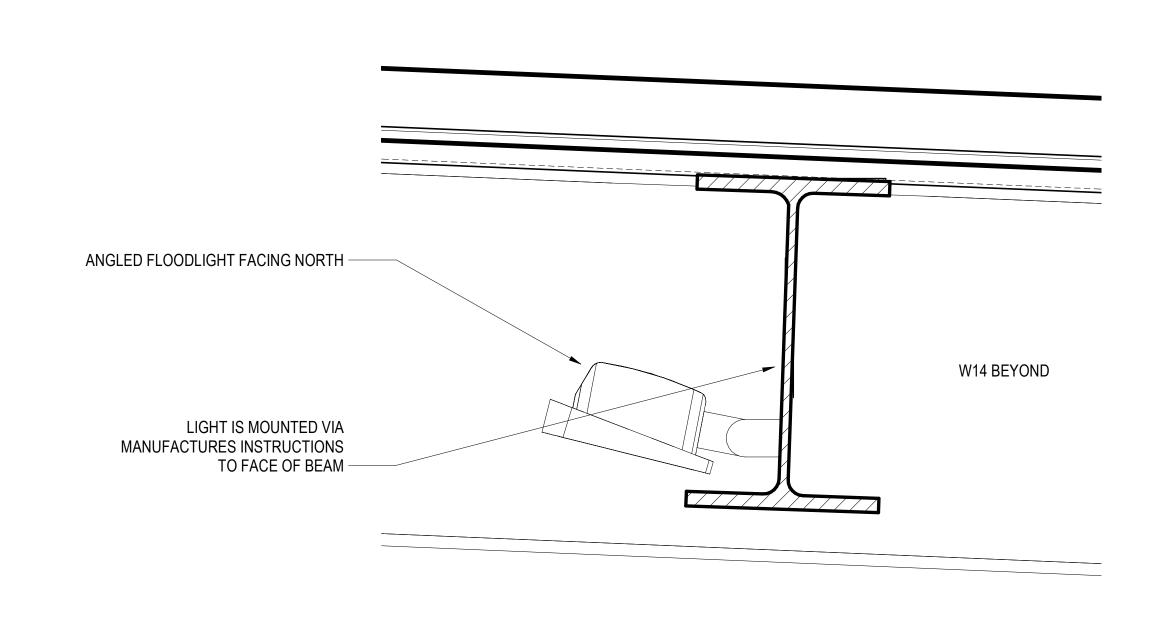
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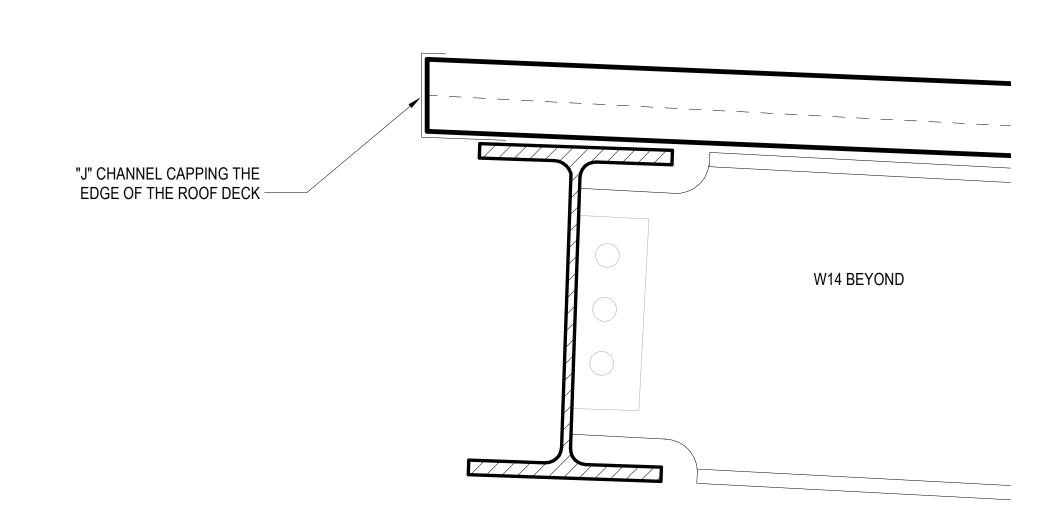
BUILDING SECTIONS

Sheet Name

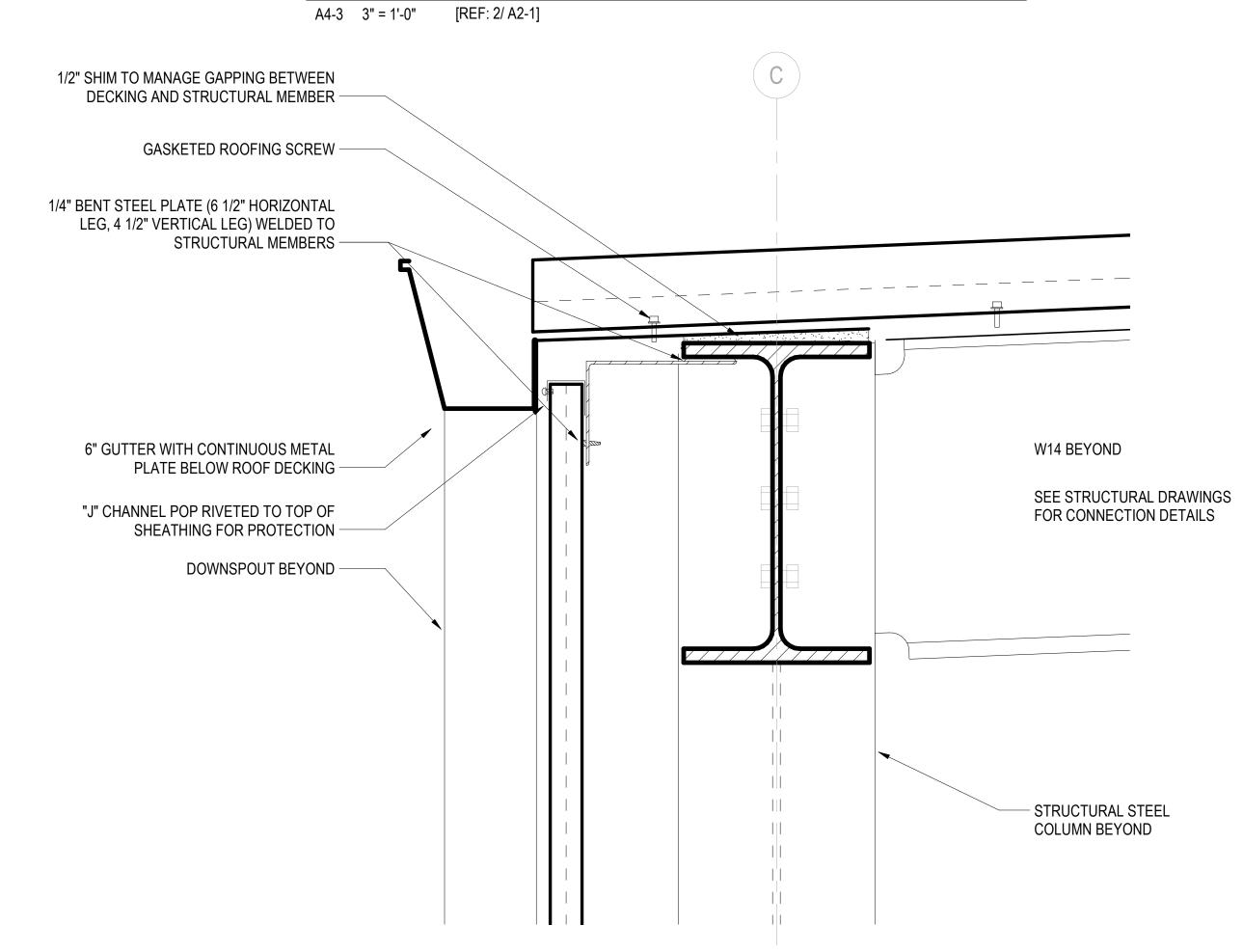
Drawing No. A4-2



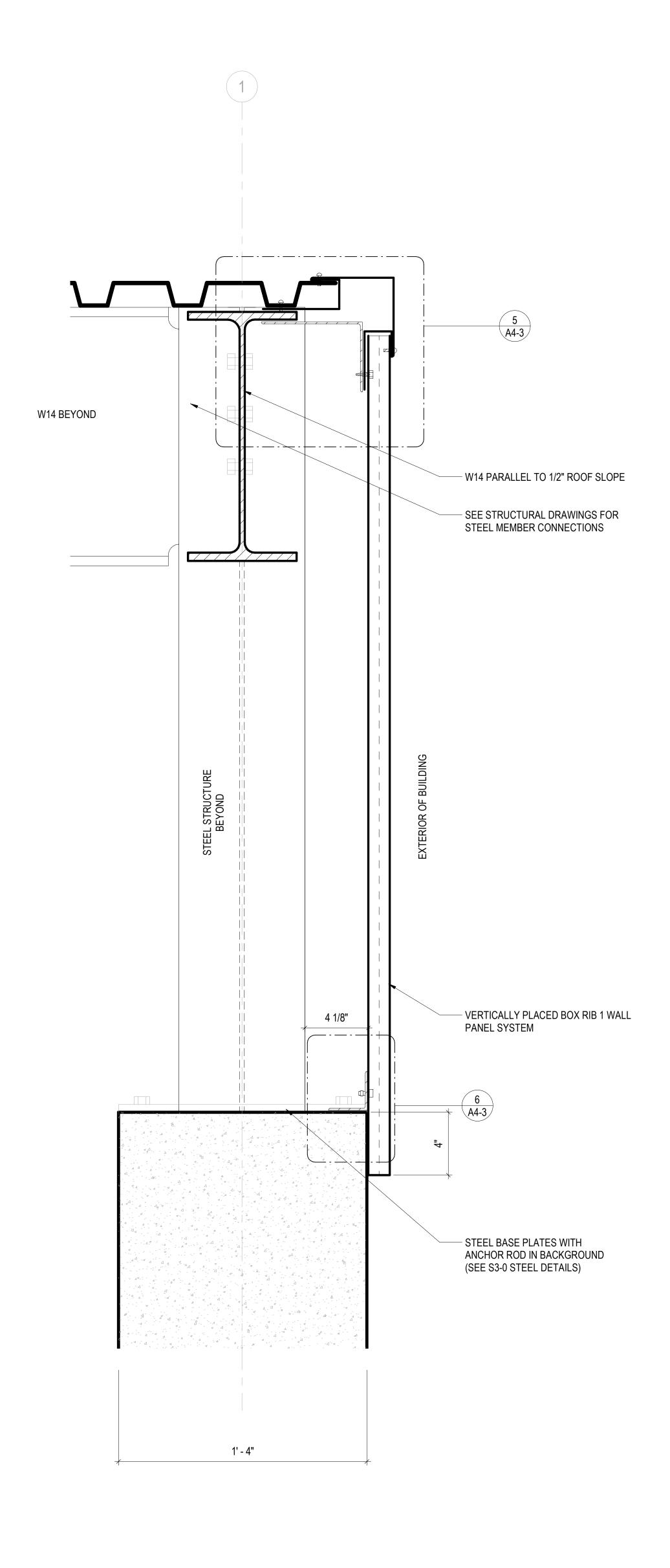
SECTION DETAIL- TYPICAL LIGHT FIXTURE A4-3 3" = 1'-0"



2 SECTION DETAIL - NORTH EDGE OF ROOF

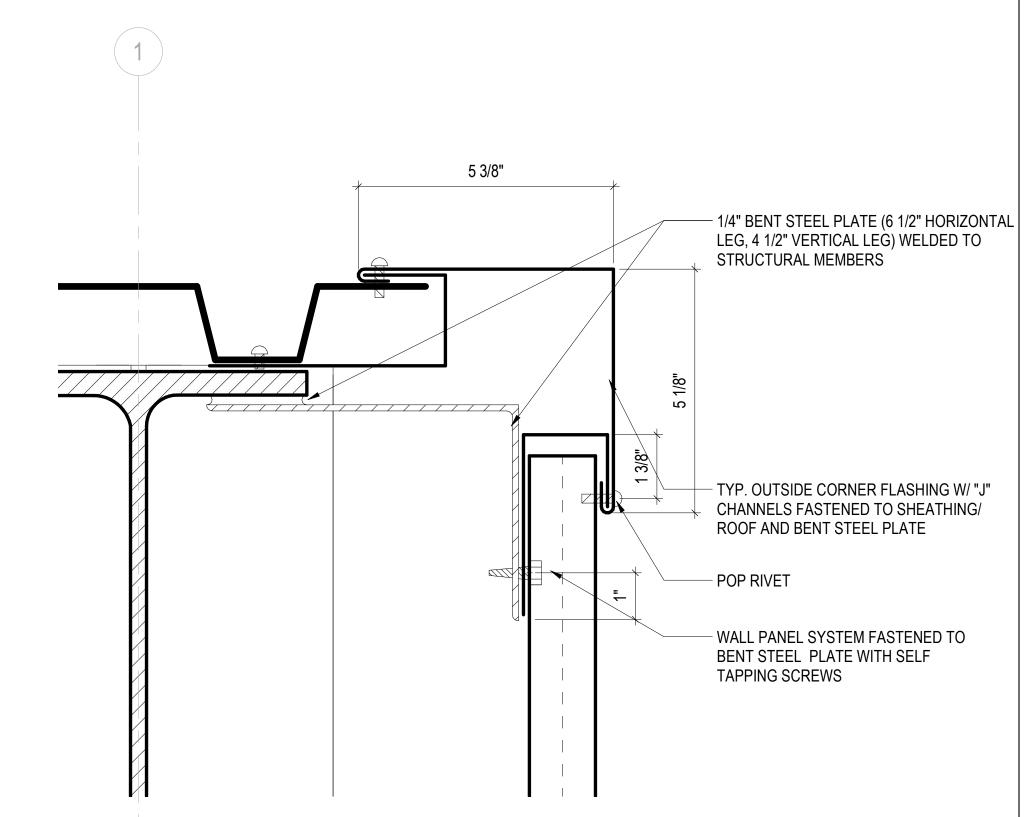


3 SECTION DETAIL - GUTTER CONNECTION
A4-3 3" = 1'-0" [REF: 2/ A2-1]

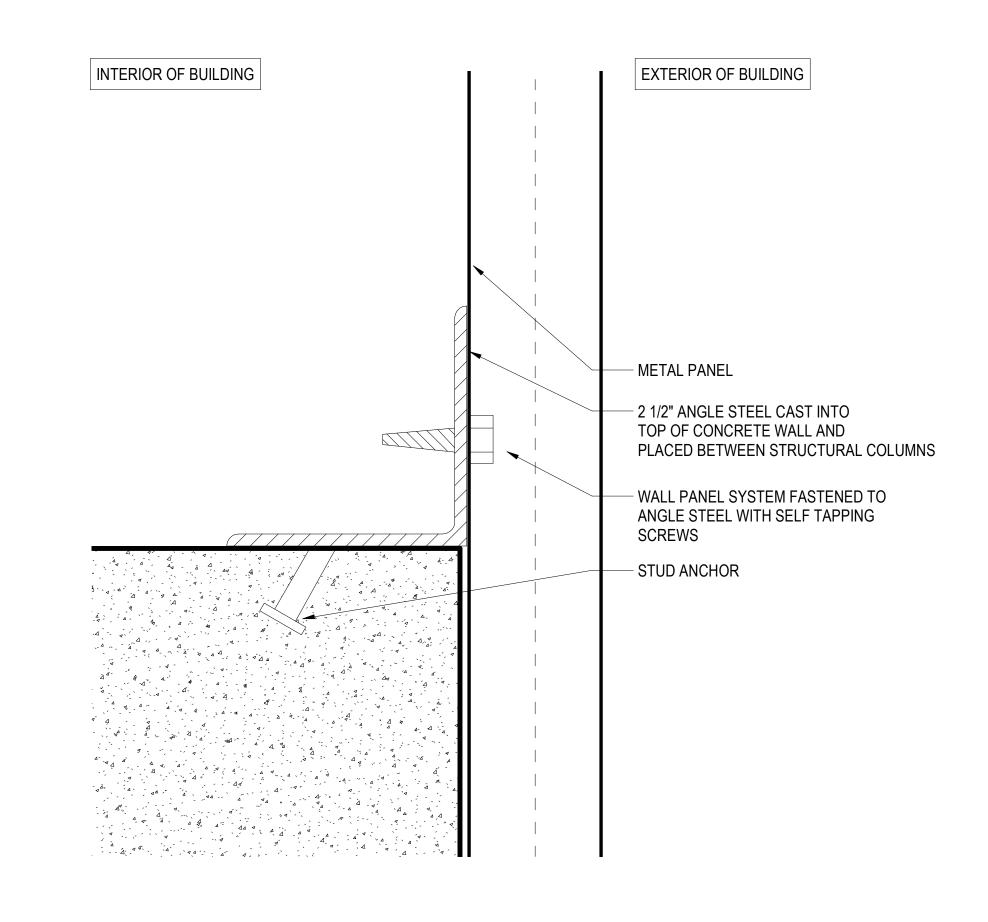


SECTION DETAIL - TYP. EAST/ WEST SHEATHING CONNECTIONS
AT TOP OF WALL

A4-3 3" = 1'-0"







SECTION DETAIL - TYP. SHEATHING BASE CONNECTION

A4-3 12" = 1'-0" [REF: 4/ A4-3]



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Village of Gurnee Public Works Material Bin Reconstruction Project

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Project Name

EDGE CONDITIONS AND DETAILS

Sheet Name

A4-3

- **DESIGN CRITERIA** 1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH: ASCE 7-10 ACI 318-11 AISC 360-10 AWS D1.1, D1.3, AND D1.8 2. RISK CATEGORY I 3. SUPERIMPOSED LOADS ARE LISTED ON PLANS. LIVE LOADS: TYPICAL ROOF 20 PSF (REDUCIBLE) 5. SNOW: GROUND SNOW 30 PSF SNOW EXPOSURE FACTOR 1.0 THERMAL FACTOR 1.2 **IMPORTANCE FACTOR** FLAT-ROOF SNOW 20.1 PSF 25 PSF DESIGN SNOW 6. SEISMIC: SEISMIC DESIGN CATEGORY IMPORTANCE FACTOR SOIL CLASS 0.055 g 0.12 g SEISMIC FORCE RESISTING SYSTEM CANTILEVER ORDINARY STEEL COLUMNS ALLOWABLE STORY DRIFT 1.25 1.25 **ANALYSIS PROCEDURE** EQUIVALENT LATERAL FORCE DESIGN BASE SHEAR, STRENGTH $V = Cs \times W = 0.0956 \times 60 = 5.7 \text{ KIPS}$ WIND: **BASIC WIND SPEED** V ULT = 105 MPH **IMPORTANCE FACTOR EXPOSURE CLASS** STORY DRIFT INTERNAL PRESSURE COEFFICIENT,
- C & C NOTES: a. THE PRESSURES LISTED ARE IN ACCORDANCE IBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE

± 0.55

ZONE 1

ZONE 4

ZONE 2

ZONE 5

10.3/-25.1 PSF 10.3/-31.7 PSF

10.7/-26.8 PSF 10.7/-33.9 PSF

11.6/-30.8 PSF 11.6/-39.0 PSF

17.0/-18.2 PSF 17.0/-19.1 PSF

18.3/-19.5 PSF 18.3/-21.7PSF

19.8/-21.2 PSF 19.8/-24.8 PSF

V = 2.9 KIPS, E-W V = 11.9 KIPS, N-S

ZONE 3

10.3/-36.8 PSF

10.7/-41.2 PSF

11.6/-51.3 PSF

RESPONSIBILITY OF THE SUBCONTRACTOR. b. WIND PRESSURES ARE ULTIMATE DESIGN LEVEL.

ROOF COMPONENTS:

WALL COMPONENTS:

A = 200 SF

A = 50 SF

A ≤ 20 SF

SUPPORT BEAMS (A > 100 SF)

ROOF SHEATHING (A = 50 SF)

DECK FASTENERS (A ≤ 10 SF)

BASE SHEAR, STRENGTH LEVEL

- c. SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES.
- d. SUBMIT DESIGN CALCULATIONS PREPARED BY A QUALIFIED STRUCTURAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED. FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES.
- 7. ALL LATERAL LOAD RESISTANCE AND STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY CANTILEVERED STEEL COLUMNS IN EACH ORTHOGONAL DIRECTION. SEE PLANS FOR LOCATIONS. THE ROOF DECK SERVES AS HORIZONTAL DIAPHRAGMS DISTRIBUTING THE LATERAL FORCES TO THE VERTICAL LATERAL ELEMENTS WHICH IN TURN CARRY THE LOAD TO THE BUILDING FOUNDATIONS.

GENERAL

- 1. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
- 2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
- 3. STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS.
- 4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.

5. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR

- OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF 6. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR
- STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
- 7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
- DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
- 9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

8. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED

- 10. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
- 11. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS. CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- 12. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
- 13. NO HOLES, NOTCHES, BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
- 14. PENETRATIONS SHALL BE CAST-IN-PLACE AND SHALL NOT BE PERMITTED EXCEPT AS SHOWN IN THE STRUCTURAL DRAWINGS.
- 15. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK. EACH PARTY SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH CONDITIONS IN FIELD, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL

- 1. SUBMITTALS ARE: a. CONCRETE MIX DESIGNS
- b. MATERIAL PRODUCT DATA FOR STRUCTURAL MATERIALS c. CONCRETE AND MASONRY REINFORCING

SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.

- d. STEEL FABRICATION AND MISCELLANEOUS METALS
- e. STEEL DECK
- 2. SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
- 3. SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
- 4. FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL

EARTHWORK

1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT DATED MARCH 14, 2023 BY SOIL AND MATERIAL CONSULTANTS, INC. REPORT IS ON FILE WITH THE ARCHITECT. 2. SOIL PROPERTIES PER THE GEOTECHNICAL REPORT: ALLOWABLE NET SOIL BEARING PRESSURE

FOOTINGS FROST DEPTH

- 3. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING/BASEMENT WALLS BEFORE CONCRETE HAS ATTAINED SPECIFIED COMPRESSIVE STRENGTH. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 7-DAY STRENGTH MINIMUM. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM IS IN PLACE OR THE WALL IS ADEQUATELY BRACED TO RESIST LATERAL LOADS. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OR SHORING AND/OR SHEETING.
- 4. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. FREE GROUND WATER WAS NOT ENCOUNTERED IN THE BORINGS. DETAILS OF GROUND WATER INFORMATION CAN BE OBTAINED FROM THE ABOVE-MENTIONED GEOTECHNICAL REPORT. IF GROUND WATER SHOULD OCCUR DURING EXCAVATION, SPECIAL PROCEDURES SHALL BE IMPLEMENTED AS
- RECOMMENDED BY THE GEOTECHNICAL ENGINEER. 5. WHERE THERE IS NOT SUFFICIENT SPACE FOR SLOPED EMBANKMENTS. SHORING WILL BE REQUIRED. SEE THE GEOTECHNICAL REPORT FOR INFORMATION REGARDING THE DESIGN AND INSTALLATION OF THE SHORING. SHORING THAT IS NOT PART OF THE PERMANENT.
- BUILDING SUPPORT IS THE CONTRACTOR'S RESPONSIBILITY AND OUTSIDE THIS PERMIT 6. CARE SHALL BE EXERCISED WHEN EXCAVATING OR GRADING ADJACENT TO EXISTING STRUCTURES OR IMPROVEMENTS TO NOT DAMAGE OR UNDERMINE FOUNDATIONS, WALLS, SLABS, UTILITIES, ETC
- 7. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS. CISTERNS AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL ABANDONED FOUNDATIONS UTILITIES AND OTHER STRUCTURES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED
- 8. ALL FOOTINGS AND SLABS ON GRADE SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL, REMOVING ANY EXISTING FILL, ORGANIC MATERIAL, OR UNSUITABLE SOILS, AS RECOMMENDED BY THE GEOTECHNICAL REPORT. EXPOSED NATURAL SOIL SHALL BE PROOF ROLLED BELOW SLABS ON GRADE.
- 9. THE PREPARATION OF THE SUBGRADE FOR THE SLAB ON GRADE SHALL BE IN STRICT ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT REFERENCED ABOVE. THE CONTRACTOR SHALL DIRECT QUESTIONS REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER.
- 10. FOUNDATION ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE AN ADEQUATE SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS, PIERS AND/OR WALLS SHALL BE LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING
- 11. ALL REQUIRED BACKFILL AND UTILITY TRENCH BACKFILL WITHIN THE BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN 8" LAYERS TO 90% MAXIMUM DRY DENSITY PER
- ASTM D1557 AND TO THE APPROVAL OF THE INSPECTION AGENCY. 12. THE MOISTURE CONTENT OF ONSITE CLAYEY SOILS AT THE TIME OF COMPACTION SHALL BE BETWEEN 2-3% ABOVE OPTIMUM MOISTURE CONTENT.
- 13. ANY REQUIRED IMPORT FILL SOIL SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTING.

REINFORCING STEEL

- 1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE "ACI DETAILING MANUAL" (SP-066) EXCEPT AS OTHERWISE SHOWN, NOTED OR SPECIFIED. 2. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL
- CONFORMING TO THE FOLLOWING STANDARDS: ASTM A615, GR 60 Fy = 60 KSI DEFORMED BARS IN SFRS ASTM A706, GR 60 Fy = 60 KSI ASTM A1064 Fy = 65 KSIWELDED WIRE REINFORCING DEFORMED EPOXY-COATED BARS ASTM A775 Fy = 60 KSIFy = 60 KSI DEFORMED GALVANIZED-COATED ASTM A767 STEEL WIRE **ASTM A1064** Fv = 60 KSIDEFORMED BAR ANCHORS ASTM A1064 Fy = 70 KSIWELDABLE BARS, DEFORMED ASTM A706, GR 60 Fy = 60 KSI3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS: CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND 3" EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
- #6 BARS OR LARGER #5 BARS OR SMALLER NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, JOIST AND WALLS WITH #14 AND #18 BARS SLABS, JOISTS AND WALLS WITH #11 BARS OR SMALLER BEAMS, COLUMNS, PEDESTALS AND TENSION TIES 1 1/2" COLUMN VERTICAL BARS **BOUNDARY ELEMENTS**
- 4. ALL REINFORCING IN CONCRETE USED FOR THE CONTAINMENT OF WATER SHALL BE HOT-DIP GALVANIZED OR EPOXY-COATED.
- 5. WELDING OF REINFORCING BARS TO BE IN ACCORDANCE WITH AWS D1.4. 6. DEFORMED BAR ANCHORS (DBA) SHALL BE AUTOMATICALLY END WELDED WITH SUITABLE
- WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER. 7. SUPPORTS FOR REINFORCEMENT SHALL HAVE CLASS 2 PROTECTION AS DEFINED IN THE
- CRSI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED. 8. SUPPORTS FOR COATED REINFORCEMENT SHALL HAVE CLASS 1 PROTECTION AS
- DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED. 9. ALL WELDED WIRE REINFORCING (WWR) SHALL BE LAPPED 2 PANELS AT EDGES AND
- 10. CONTINUOUS HORIZONTAL REINFORCING SHALL BE LAPPED AT MIDSPAN FOR TOP BARS AND DIRECTLY OVER SUPPORTS FOR BOTTOM BARS. AT DISCONTINUOUS ENDS, THE TOP STEEL SHALL BE BENT DOWN 12 BAR DIAMETERS OR 12" MINIMUM, WHICHEVER IS
- 11. FOR MAT FOUNDATIONS, REINFORCING FOR TOP BARS SHALL BE LAPPED UNDER STRUCTURAL COLUMNS AND WALLS ABOVE AND AT MIDSPAN FOR BOTTOM BARS. AT DISCONTINUOUS ENDS, THE TOP STEEL SHALL BE BENT DOWN 12 BAR DIAMETERS OR 12" MINIMUM, WHICHEVER IS GREATER.
- 12. WHERE REINFORCEMENT LENGTH IS SPECIFIED, NO SPLICES ARE PERMITTED WITHIN THE SPECIFIED LENGTH WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER.
- 13. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE. SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNLESS OTHERWISE NOTED. PROVIDE FOUNDATION DOWELS TO MATCH SIZE AND SPACING OF WALL OR COLUMN REINFORCEMENT. EXTEND DOWELS A LAP SPLICE LENGTH INTO WALL OR COLUMN AND TERMINATE WITH STANDARD HOOK AT BOTTOM OF FOOTING, UNLESS OTHERWISE NOTED
- 14. REINFORCING IN WALL FOOTINGS AND GRADE BEAMS BETWEEN COLUMNS SHALL BE DEVELOPED (Ld) INTO COLUMN FOOTINGS.
- 15. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS OR SLEEVES IS NOT ACCEPTABLE. 16. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE
- USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED. 17. FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED
- ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER. 18. USE TEMPLATES TO SET ALL EMBEDDED ANCHOR BOLTS, LEVELING PLATES, AND DOWEL
- BARS AS REQUIRED OR INDICATED ON THE DRAWINGS. 19. SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL. INCLUDE SCHEDULES AND DIAGRAMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCEMENT, INCLUDING CONCRETE COVER. STRUCTURAL ENGINEER'S REVIEW WILL BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE
- RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES. 20. ALL CONCRETE NOT OTHERWISE SPECIFIED SHALL BE REINFORCED TO THE MINIMUM REQUIREMENT OF ACI 318.
- 21. REINFORCE ALL ARCHITECTURAL CONCRETE TOPPING SLABS WITH 6x6-W1.4xW1.4 WWR UNLESS OTHERWISE NOTED.

CAST-IN-PLACE CONCRETE

- 1. ALL CONCRETE WORK SHALL CONFORM TO THE CORRESPONDING EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 117, ACI 301, ACI 305.1, ACI 306.1, ACI 308.1, ACI 318 AND SP-066, UNLESS OTHERWISE NOTED.
- 2. CONCRETE MATERIALS SHALL CONFORM TO: CEMENT ASTM C150, TYPE I OR II FLY ASH ASTM C618, TYPE C OR F FINE AND COARSE AGGREGATE ASTM C33 LIGHTWEIGHT AGGREGATE ASTM C330 POTABLE AIR-ENTRAINING ADMIXTURE ASTM C260 WATER REDUCING ADMIXTURE ASTM C494 CONCRETE STRENGTHS SHALL CONFORM TO
 - **EXPOSURE** INTENDED USE STRENGTH (PSI) CLASS **FOOTINGS** FOUNDATIONS N/A 4000 **SLAB ON GRADE UNLESS OTHERWISE NOTED** N/A
- NORMAL-WEIGHT 28-DAY STRENGTH UNLESS OTHERWISE NOTED. THE MODULUS OF ELASTICITY OF ALL CONCRETE SHALL EXCEED 57,000 SQRT(f'c) FOR NORMAL-WEIGHT CONCRETE OR wc1.5 33 SQRT(f'c).
- 5. DRYPACK OR GROUT SHALL HAVE A MINIMUM 28-DAY STRENGTH OF 7000 PSI. 6. SLAB-ON-GRADE CONSTRUCTION: LOCATE SAW-CUT CONTROL JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW, UNLESS OTHERWISE NOTED. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS. SEE PLAN FOR
- SPECIAL CASES. **MAXIMUM JOINT SPACING EACH WAY (FT)** THICKNESS (IN) 7. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ENSURE PROPER
- OF WALLS/FOUNDATIONS PRIOR TO PLACING CONCRETE 8. UNLESS OTHERWISE NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.

DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, AND EDGES

- 9. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED TO 1/4" AMPLITUDE BY SAND BLASTING OR MECHANICAL MEANS. CLEAN BEFORE POUR. LOCATION TO BE APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LOCATION PLAN OF ALL PROPOSED JOINTS NOT INDICATED ON DRAWINGS FOR APPROVAL PRIOR TO BEGINNING WORK.
- 10. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL ENSURE ALL REINFORCING AND EMBEDMENTS, INCLUDING COLUMN ANCHOR BOLTS, ARE PROPERLY LOCATED AND SECURELY TIED IN PLACE.
- 11. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE BEFORE PLACING. SECURE SLEEVES TO PREVENT MOVEMENT DURING PLACING OPERATIONS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS. 12. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDDED ARE SUITABLE FOR
- EMBEDMENT IN CONCRETE.
- 13. CONDUIT, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO REQUIREMENTS OF ACI 318, SECTIONS 20.7 AND 26.8. 14. DO NOT PLACE VERTICAL CONDUIT IN CONCRETE COLUMNS WITHOUT APPROVAL OF THE
- STRUCTURAL ENGINEER. 15. NO ALUMINUM SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO
- PREVENT ALUMINUM-CONCRETE REACTION. WATERSTOPS SHALL BE A BENTONITE PRODUCT. 17. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4
- INCH CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS. 18. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINAGE IF NO DRAINS ARE PRESENT AND PROVIDE DEPRESSIONS WHERE SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS WITHOUT REDUCING THE THICKNESS OF SLAB INDICATED. FOR SLAB-ON-
- 19. INTERNALLY VIBRATE ALL CAST-IN-PLACE CONCRETE EXCEPT SLABS-ON-GRADE WHICH NEED ONLY BE VIBRATED AROUND UNDER FLOOR DUCTS AND OTHER EMBEDDED ITEMS. VIBRATE TOPS OF COLUMNS.

REINFORCING.

GRADE DEPRESSIONS GREATER THAN 1 INCH, SEE DETAILS FOR ADDITIONAL

20. PROVIDE VERTICAL CONTROL JOINTS IN EXPOSED CONCRETE WALLS AT A MINIMUM UNIFORM SPACING NOT TO EXCEED 25 FEET PER ACI 224.3. COORDINATE JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS.

21. CONCRETE SHALL NOT BE PERMITTED TO DROP MORE THAN 5 FEET.

- 22. IF CONCRETE IS PLACED BY PUMPING, SUPPORT SHALL BE PROVIDED FOR THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING AND OTHER EMBEDDED
- 23. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE WALLS SHALL BE LEFT IN PLACE FOR 7 DAYS OR MAY BE STRIPPED AFTER 3 DAYS AND COATED WITH AN APPROVED CURING COMPOUND.
- 24. NOTIFY THE STRUCTURAL ENGINEER 48 HOURS MINIMUM PRIOR TO ALL POURS. 25. CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING CONCRETE TO ENSURE PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
- 26. THE DESIGN AND ENGINEERING OF FORMWORK, SHORING AND RESHORING, AS WELL AS THEIR CONSTRUCTION. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE AND SHALL ALSO BE DESIGNED FOR SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES. CONTRACTOR SHALL SUBMIT DETAILED FORMWORK SHOP DRAWINGS TO THE ARCHITECT TO BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY.
- . CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS IS MINIMUM THICKNESS. NO ALLOWANCES HAVE BEEN SHOWN FOR ADDITIONAL CONCRETE FILL REQUIRED TO COMPENSATE FOR BEAM OR DECK DEFLECTIONS AND TO MAINTAIN SURFACE TOLERANCES SPECIFIED.
- 28. CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
- 29. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, ICE OR SNOW.
- 30. DURING WINTER CONSTRUCTION, ALL FOOTINGS SHALL BE PROTECTED FROM FROST PENETRATION UNTIL THE BUILDING IS ENCLOSED AND TEMPORARY HEAT IS PROVIDED. 31. GENERAL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIZE, LOCATION AND HEIGHT OF MECHANICAL EQUIPMENT PADS ON CONCRETE SLAB ON STEEL DECK AND SLAB-ON-
- 32. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S, SUBMIT TEST DATA ON EACH PROPOSED MIX
- FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE CODE. MIX DESIGNS SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW. 33. PROVIDE SLAB COORDINATION DRAWING SUBMITTAL INDICATING COORDINATED LOCATIONS OF: MEP PENETRATIONS, SLEEVES, OPENINGS, IN-SLAB CONDUIT/DUCT (IF ALLOWED), EMBEDS, CAST-IN ANCHORS, AND OTHER ITEMS EMBEDDED OR PENETRATING

STRUCTURAL ELEVATED SLABS.

1. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".

2.	STRUCTURAL STEEL SHALL CONFORM	TO ASTM STANDARDS AS NO	OTED BELO
	WIDE FLANGE SHAPES OTHER ROLLED SHAPES HSS SECTIONS, ROUND	ASTM A992 ASTM A36 ASTM A500, GR C	Fy = 50 KSI Fy = 36 KSI Fy = 46 KSI
	HSS SECTION, SQ/RECT HP SHAPES	ASTM A500, GR C ASTM A572	Fy = 50 KSI Fy = 50 KSI
	BASE AND CONNECTION PLATES ANCHOR RODS HIGH STRENGTH BOLTS	ASTM A36 ASTM F1554, GR 36 ASTM F3125, GR A325	Fy = 36 KSI Fy = 36 KSI Fv = 120 KS
	WASHERS HEADED STUD ANCHORS ELECTRODES FOR ARC WELDING	ASTM F436 ASTM A108, TYPE B AWS 5.1, E70XX	1 V - 120 RC

3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". SEE DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.

- 4. ALL BOLTED CONNECTIONS SHALL BE GRADE A325N BEARING TYPE BOLTS, UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE INSTALLED TO A MINIMUM "SNUG TIGHT"
- CONDITION, UNLESS OTHERWISE NOTED 5. FULLY TENSIONED HIGH STRENGTH BOLTS AND SLIP CRITICAL HIGH STRENGTH BOLTS SHALL USE TENSION-CONTROL "TWIST-OFF" BOLTS OR BE INSTALLED USING THE TURN OF
- 6. BEAM REACTIONS GIVEN ON THE CONTRACT DOCUMENTS SHALL SUPERSEDE THE
- PREVIOUS NOTE. IN NO CASE SHALL THE CONNECTIONS BE DESIGNED FOR AN UNFACTORED END REACTION LESS THAN 12 KIPS.
- 7. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE WELD LENGTH IS NOT SPECIFIED, PROVIDE WELD ALONG ENTIRE INTERSECTION OF THE JOINED PARTS. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM WELD SIZE AS SPECIFIED IN AISC 360, TABLE J2.4.
- 8. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING CALLED FOR. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
- 9. HEADED STUD ANCHORS (HSA): SHALL BE INSTALLED IN ACCORDANCE WITH AWS D1.1 AND SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE HSA AND THE STEEL SHAPE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE HSA AND THE STEEL SHAPE. THE HSA SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8"ø AND SMALLER AND 3/16" FOR LARGER THAN 5/8"ø.
- 10. BEAMS SHALL BE CAMBERED UPWARD WHERE SHOWN ON THE DRAWINGS. WHERE NO UPWARD CAMBER IS INDICATED, ANY MILL CAMBER SHALL BE DETAILED UPWARD IN THE
- 11. SPLICING OF STEEL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION. TYPE
- OF SPLICE AND CONNECTION TO BE MADE. 12. ALL STEEL EXPOSED TO WEATHER OR AS NOTED ON PLAN SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 G60. ABRADED AREAS TO BE
- TOUCHED UP WITH COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780. 13. ALL GALVANIZED HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
- 14. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
- 15. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.
- 16. GROUT FOR BASE AND BEARING PLATES SHALL BE A NON-SHRINK, NON-METALLIC PRODUCT. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 7000 PSI. INSTALL GROUT PRIOR TO APPLYING SIGNIFICANT LOADING TO MEMBER.
- 17. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

STEEL DECK

- 1. MATERIAL, DETAILING, DESIGN, MANUFACTURE, AND ERECTION OF STEEL DECKS SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE (SDI) SPECIFICATION.
- 2. DECK SIZE AND GAUGE INDICATED ON THE DRAWINGS ARE BASED ON THE FOLLOWING:
- A. CURRENT VERSION OF VULCRAFT CATALOG FOR GRAVITY DESIGN LOADS AND UNSHORED CONSTRUCTION SPANS B. STEEL DECK INSTITUTE (SDI) DIAPHRAGM DESIGN MANUAL 4TH EDITION FOR
- DIAPHRAGM LOADS 3. STEEL DECK GALVANIZING SHALL CONFORM TO ASTM A653 WITH A MINIMUM COATING OF
- 4. PAINTED STEEL ROOF DECK SHALL CONFORM TO ASTM A1008, GRADE C.
- 5. ALL FLOOR AND ROOF DECK SHALL BE VENTED.
- 6. PROVIDE MINIMUM DECK BEARING AND LAP LENGTHS PER MANUFACTURER'S RECOMMENDATIONS. 7. USE SUMP PANS AT ALL ROOF DRAINS. MINIMUM THICKNESS FOR SUMP PANS SHALL BE 14
- 8. DECK MANUFACTURER SHALL FURNISH ALL RIDGE AND VALLEY PLATES, SUMP PANS, DRAIN PLATES. AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. DECK MANUFACTURER SHALL PROVIDE ALL CLOSURE PLATES AND POUR STOPS NOT
- PROVIDED BY THE STEEL FABRICATOR. 9. CUTTING AND FRAMING OF OPENINGS FOR OTHER TRADES SHALL BE THE RESPONSIBILITY OF THE TRADES INVOLVED. HOLES THAT ARE LOCATED AND DIMENSIONED ON THE
- DRAWINGS SHALL BE THE RESPONSIBILITY OF THE DECK ERECTOR. 10. DO NOT EXCEED 25 LBS PER HANGER AND A MINIMUM SPACING OF 2'-0" ON CENTER WHEN ATTACHING TO STEEL ROOF DECK. THIS 25 LBS LOAD AND 2'-0" SPACING INCLUDES ADJACENT MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS HANGING FROM THE DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, SUPPLEMENTAL FRAMING SUPPORTED OFF STEEL FRAMING WILL NEED TO BE ADDED. THE GENERAL CONTRACTOR

IS RESPONSIBLE FOR COORDINATING LOCATION AND WEIGHT OF ALL THE ELEMENTS

BEING HUNG WITH STRUCTURAL ENGINEER, UNLESS OTHERWISE NOTED. 11. SUBMIT SHOP DRAWINGS SHOWING ERECTION PROCEDURES, WELDING PROCEDURES, VERTICAL LOAD AND DIAPHRAGM SHEAR CAPACITY FURNISHED, DECK SHORING REQUIREMENTS. UNDERWRITER'S LABORATORIES (UL) FIRE RATING NUMBER AND COMPOSITE BEAM AND GIRDER STUD PROFILES TO THE STRUCTURAL ENGINEER FOR REVIEW. FABRICATION SHALL NOT BEGIN WITHOUT APPROVED SHOP DRAWINGS.



140 South Dearborn Chicago, IL 60603 Tel: 312 357 1771 Fax: 312 357 1909

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Date

Project Number	16065
Drawn	K. KRAUSE
Checked	A. FEE
Proj. Arch./Eng.	R. ALVES

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Village of Gurnee Public Works Material Bin Reconstruction Project

1151 Kilbourne Rd, Gurnee, IL 60031

Project Name

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

Sheet Name

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TESTING, INSPECTIONS, AND OBSERVATIONS

- 1. THE STRUCTURAL ENGINEER DOES NOT PROVIDE INSPECTIONS OF CONSTRUCTION. STRUCTURAL ENGINEER MAY MAKE PERIODIC OBSERVATIONS OF THE CONSTRUCTION. SUCH OBSERVATIONS SHALL NOT REPLACE REQUIRED INSPECTIONS BY THE GOVERNING AUTHORITIES OR SERVE AS "SPECIAL INSPECTIONS" AS MAY BE REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
- 2. SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
- 3. DUTIES OF THE INSPECTION AGENCY PER IBC CHAPTER 17:
- a. SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.

d. SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION

b. PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.

AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

- c. FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
- 4. SPECIAL INSPECTIONS AND TESTS ARE REQUIRED FOR MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN CHAPTER 17 OF THE IBC OR IN STANDARDS REFERENCED BY
- a. POST-INSTALLED ANCHORS INSPECTION 5. THE FOLLOWING WORK SHALL BE INSPECTED BY THE SPECIAL INSPECTOR LINESS SPECIFICALLY WAIVED BY THE BLUEDING OFFICIAL

	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
CONCRETE CONSTRUCTION				
INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		Х	ACI 318: CH 20, 25.2, 25.3, 26.2.1-26.6.3	1908.4
2. MATERIAL IDENTIFICATION OF REINFORCING (TYPE/GRADE)		Х	AISC 341: TABLE J9.1	
3. REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD		Х	AISC 341: TABLE J9.1	
4. REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED		Х	AISC 341: TABLE J9.1	
5. REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED		Х	AISC 341: TABLE J9.1	
6. COMPOSITE STEEL MEMBERS HAVE REQUIRED SIZE		Х	AISC 341: TABLE J9.1	
7. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	AWS D1.4	
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND		Х	ACI 318: 26.6.4	
c. INSPECTS ALL OTHER WELDS	Χ			
8. INSPECT ANCHORS CAST IN CONCRETE		Х	ACI 318: 17.8.2	
9. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		ACI 318: 17.8.2.4	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a		Х	ACI 318: 17.8.2	
10. VERIFY USE OF REQUIRED DESIGN MIX		Х	ACI 318: CH 19, 26.4.2, 26.4.4	1904.1, 1904. 1908.2, 1908.
11. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	Х		ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1907.10
12. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5	1908.6, 1908. 1908.8
13. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5	1908.9
14. INSPECT PRESTRESSED CONCRETE FOR:				
a. APPLICATION OF PRESTRESSING FORCES; AND	X		ACI 318: 26.11.2	
b. GROUTING OF BONDED PRESTRESSING TENDONS	Χ			
15. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	Χ		ACI 318: 26.9	
16. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST- TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		Х	ACI 318: 26.11.2	
17. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		Х	ACI 318: 26.11.2(b)	
VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL REFEREN	

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIA REFERE	
STRUCTURAL STEEL - FABRICATION				
1. FABRICATION FACILITY			X	
2. CONNECTION ERECTION AND ASSEMBLY	Χ	X		
3. PRETENSIONED AND SLIP-CRITICAL BOLTS/JOINTS USING TURN-OF-NUT METHOD	Χ	X		
WITHOUT MATCHMAKING OF CALIBRATED WRENCH METHODS OF INSTALLATION				
4. SINGLE PASS FILLET WELDS 5/16" OR LESS	Χ	X	X	
5. ALL OTHER WELDS INCLUDING COMPLETE AND PARTIAL PENETRATION WELDS	Х	X	X	
6. SHEAR STUD PLACEMENT	Х	X		
VERIFICATION AND INSPECTION TASK	QC	QA	MATERIA REFERE	
STRUCTURAL STEEL - ERECTION				
1. STRUCTURAL STEEL ERECTION	Χ	X		
2. CONNECTION ERECTION AND ASSEMBLY	Χ	X		
3. PRETENSIONED AND SLIP-CRITICAL BOLTS/JOINTS USING TURN-OF-NUT METHOD	Χ	X		
WITHOUT MATCHMAKING OF CALIBRATED WRENCH METHODS OF INSTALLATION				
4. SINGLE PASS FILLET WELDS 5/16" OR LESS	Х	X	X	
5. ALL OTHER WELDS INCLUDING COMPLETE AND PARTIAL PENETRATION WELDS	Х	X	X	
6. SHEAR STUD PLACEMENT	Х	X		
7. BEAM CAMBER (IN-PLACE)	Х			
VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL PRIOR TO BOLTING - MINIMUM INSPECTION				
MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	0	P[HLH1]	TABLE C-N5.6-1	2.1, 9.1
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	0	0	TABLE C-N5.6-1	6.5.1
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT	0	0	TABLE C-N5.6-1	2.3.2, 2.7.2, 9.
LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)				
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	0	0	TABLE C-N5.6-1	4, 8
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE	0	0	TABLE C-N5.6-1	TABLE 6.1(2)
CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS				
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL	P ¹	O ¹	TABLE C-N5.6-1	3, 9.1, 9.3
OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED				
7. PROTECTION STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	0	0	TABLE C-N5.6-1	2.2, 8, 9.1
1 DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS B	EEN PERFORM	IED IN ACCOR	DANCE WITH THE C	CONTRACT

DOCUMENTS. THE REPORTS NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORY REPAIRED SHAPE NOTED IN THE INSPECTION.

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL AFTER BOLTING - MINIMUM INSPECTION				
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	Р	Р	TABLE C-N5.6-3	N/A
VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
STRUCTURAL STEEL PRIOR TO WELDING - MINIMUM INSPECTION				
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	Р	Р	TABLE C-N5.4-1	6.3
2. MANUFACTURER CERTIFICATES FOR WELDING CONSUMABLES AVAILABLE	Р	Р	TABLE C-N5.4-1	6.2
3. MATERIAL IDENTIFICATION	0	0	TABLE C-N5.4-1	6.2
4. WELDER IDENTIFICATION	0	0	TABLE C-N5.4-1	6.4 (WELDER QUALIFICATIO N)
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	0	0	TABLE C-N5.4-1	
a. JOINT PREPARATION	0	0	TABLE C-N5.4-1	6.5.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	0	0	TABLE C-N5.4-1	5.22
c. CLEANLINESS (CONDITION OF STEEL SURFACE)	0	0	TABLE C-N5.4-1	5.14
d. TACKING (TACK WELD QUALITY AND LOCATION)	0	0	TABLE C-N5.4-1	5.17
e. BACKING TYPE AND FIT (IF APPLICABLE)	0	0	TABLE C-N5.4-1	5.9, 5.21.1.1
6. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- & KJOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)	P/O ¹	0	TABLE C-N5.4-1	9.11.2
a. JOINT PREPARATION	P/O ¹	0	TABLE C-N5.4-1	9.11.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P/O ¹	0	TABLE C-N5.4-1	9.11.2
c. CLEANLINESS (CONDITION OF STEEL SURFACE)	P/O ¹	0	TABLE C-N5.4-1	9.11.2
d. TACKING (TACK WELD QUALITY AND LOCATION)	P/O ¹	0	TABLE C-N5.4-1	9.11.2
7. CONFIGURATION AND FINISH OF ACCESS HOLES	0		TABLE C-N5.4-1	6.5.2, 5.16 (& SEE AISC 360 SECT. J1.6)
8. FIT-UP OF FILLET WELDS	P/O ¹	0	TABLE C-N5.4-1	
a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	P/O ¹	0	TABLE C-N5.4-1	5.21.1
b. CLEANLINESS (CONDITION OF STEEL SURFACES)	P/O ¹	0	TABLE C-N5.4-1	5.14
c. TACKING (TACK WELD QUALITY AND LOCATION)	P/O ¹	0	TABLE C-N5.4-1	5.17
9. CHECK WELDING EQUIPMENT	0	0	TABLE C-N5.4-1	6.2, 5.10

2. CONTROL AND HANDLOING OF WELDING CONSUMABLES 0 0 TABLE C-N5.42 5.3 D. EXPOSURES CONTROL 0 0 TABLE C-N5.42 5.3.2 J. ENYROSHIS CONTROL 0 0 TABLE C-N5.42 5.3.2 M. (PORS) J. ENYROSHIST CONDITIONS 0 0 TABLE C-N5.42 5.3.2 M. (PORS) J. PRECIPITATION AND TEMPERATURE 0 0 TABLE C-N5.42 5.11 J. PRECIPITATION AND TEMPERATURE 0 0 TABLE C-N5.42 5.11 J. SETTINGS ON WELDING EQUIPMENT 0 0 TABLE C-N5.42 5.52 J. TRAVEL SPEED 0 0 TABLE C-N5.42 5.52 S. SELECTION GAS TYPEFLOW RATE 0 0 TABLE C-N5.42 6.5,6 J. WILLIAM GAS TYPEFLOW RATE 0 0 TABLE C-N5.42 6.5,6 J. MITERPASS TEMPERATURE MAINTAINED (MINMAX) 0 0 TABLE C-N5.42 6.5,2 J. WELDING TECHNIQUES 0 0 TABLE C-N5.42 5.2,6,5 J. WELDING TECHNIQUES 0 0 TABLE C-N5.42 5.2,6	VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
2. CONTROL AND HANDLING OF WEIDING CONSUMABLES					
a. PACKAGING					6.4
D. EXPOSURE CONTROL D	2. CONTROL AND HANDLING OF WELDING CONSUMABLES	0	0	TABLE C-N5.4-2	6.2
SANANY	a. PACKAGING	0	0	TABLE C-N5.4-2	5.3.1
3. WIND SPEED WITHIN LIMITS	b. EXPOSURE CONTROL	0	0	TABLE C-N5.4-2	5.3.2 (FOR SMAW), 5.3.3 (FOR SAW)
D. PRECIPITATION AND TEMPERATURE	3. ENVIRONMENT CONDITIONS	0	0	TABLE C-N5.4-2	,
WPS FOLLOWED	a. WIND SPEED WITHIN LIMITS	0	0	TABLE C-N5.4-2	5.11.1
SETTINGS ON WELDING EQUIPMENT	D. PRECIPITATION AND TEMPERATURE	0	0	TABLE C-N5.4-2	5.11.2
□. TRANYEL SPEED O O TABLE C-NS.4-2 □. SHIELDING GAS TYPE/FLOW RATE O O TABLE C-NS.4-2 □. SHIELDING GAS TYPE/FLOW RATE O O TABLE C-NS.4-2 □. INTERRASS TEMPERATURE MINITAINED (MINIMAX) O O TABLE C-NS.4-2 5.5.5 □. INTERRASS TEMPERATURE METALS AVOIDED UNLESS APPROVED O O TABLE C-NS.4-2 5.5.6 □. INTERRIX OF FILLER METALS AVOIDED UNLESS APPROVED O O TABLE C-NS.4-2 6.5.2, 6.5 □. INTERRASS AND FINAL CLEANING O O TABLE C-NS.4-2 5.2 □. EACH PASS WITHIN PROFILE LIMITATIONS O O TABLE C-NS.4-2 5.2 □. EACH PASS MEETS QUALITY REQUIREMENTS O O TABLE C-NS.4-2 5.2 VERIFICATION AND INSPECTION TASK QC QA MATERIAL STD AWS. L STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION O TABLE C-NS.4-3 6.5.4 □. WELDS CLEANED O O TABLE C-NS.4-3 6.5.4 □. WELD SCHEMENTH AND LOCATION OF WELDS P P TABLE C-NS.4-3 </td <td>4. WPS FOLLOWED</td> <td>0</td> <td>0</td> <td>TABLE C-N5.4-2</td> <td>6.3.3, 6.5.2, 5.5 5.20</td>	4. WPS FOLLOWED	0	0	TABLE C-N5.4-2	6.3.3, 6.5.2, 5.5 5.20
a. SELECTED WELDING MATERIALS O O TABLE C-N9.4-2 D. PREHEAT APPLIED O TABLE C-N9.4-2 D. PREHEAT APPLIED O TABLE C-N9.4-2 D. PROPER POSITION (F. V. H., OH) O O TABLE C-N9.4-2 D. PROPER POSITION (F. V. H., OH) O O TABLE C-N9.4-2 D. TABLE C-N9.4-2 D. WELDING TECHNIQUES O TABLE C-N9.4-2 D. TABLE C-N9.4-3 TABLE C-N9.4	a. SETTINGS ON WELDING EQUIPMENT	0	0	TABLE C-N5.4-2	
SHIELDING GAS TYPE/FLOW RATE	b. TRAVEL SPEED	0	0	TABLE C-N5.4-2	
SHIELDING GAS TYPEFLOW RATE	c. SELECTED WELDING MATERIALS	0	0	TABLE C-N5.4-2	
2. PREHEAT APPLIED O O TABLE C.NS.4-2 5.6, £ 2. PROPER POSITION (F. V. H. OH) O O TABLE C.NS.4-2 2.9. PROPER POSITION (F. V. H. OH) O O TABLE C.NS.4-2 3.0. TABLE C.NS.4-2 1.0. TABLE C.NS.4-2 0.0. TABLE C.NS.4-2 5.2. £ 5.0. WELDING TECHNIQUES O O TABLE C.NS.4-2 5.2. £					
INTERPASS TEMPERATURE MAINTAINED (MINMAX)					5.6, 5.7
3. PROPER POSITION (F. V. H., OH)					0.0, 0.7
INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED O O TABLE C-NS-4-2 (5.2, 6.5. WELDING TECHNIQUES) O O TABLE C-NS-4-2 (5.2, 6.5. WELDING TECHNIQUES) D O O TABLE C-NS-4-2 (5.2, 6.5. WELDING TECHNIQUES) D EACH PASS WITHIN PROFILE LIMITATIONS D O TABLE C-NS-4-2 (5.2, 9.2, 6.2, 6.5. WELDING THE LIMITATIONS) D O TABLE C-NS-4-2 (5.2, 9.2, 6.2, 6.5. WELDING TO TABLE C-NS-4-2 (5.2, 9.2, 9.2, 9.2, 9.2, 9.2, 9.2, 9.2, 9	, ,				
3. WELDING TECHNIQUES 0					
INTERPASS AND FINAL CLEANING					65065050
Deach Pass Within Profile Limitations O					, ,
CE EACH PASS MEETS QUALITY REQUIREMENTS O O TABLE C-N5.4-2 VERIFICATION AND INSPECTION TASK QC QA MATERIAL STO AWS INTERPRENCE CLAUS STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION I. WELDS CLEANED O O TABLE C-N5.4-3 5.29 2. SIZE, LENGTH AND LOCATION OF WELDS 2. SIZE, LENGTH AND LOCATION OF WELDS 3. WELDS MEET VISUAL ACCEPTANCE CRITERIA PP P TABLE C-N5.4-3 6.5. 3. WELDS MEET VISUAL ACCEPTANCE CRITERIA PP P TABLE C-N5.4-3 6.5. 4. CRACKE PROHIBITION PP P TABLE C-N5.4-3 7 ABLE C C-RATER CROSS-SECTION PP P TABLE C-N5.4-3 7 ABLE C C-RATER CROSS-SECTION PP P TABLE C-N5.4-3 7 ABLE C C-MATER CROSS-SECTION PP P TABLE C-N5.4-3 7					5.29.1
VERIFICATION AND INSPECTION TASK QC QA MATERIAL STD REFERENCE CLAUS STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION 1. WELDS CLEANAED 2. SIZE, LENGTH AND LOCATION OF WELDS 3. WELDS MEET VISUAL ACCEPTANCE CRITERIA 4. PP P TABLE C-N5.4-3 TABLE C DEVELOMBASE-METAL FUSION PP PP TABLE C-N5.4-3 TABLE C T TABLE C T TABLE C T T T T T T T T T T T T T T T T T T T	b. EACH PASS WITHIN PROFILE LIMITATIONS	0	0	TABLE C-N5.4-2	
STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION 1. WELDS CLEANED 2. SIZE, LENGTH AND LOCATION OF WELDS 3. WELD SMEET VISUAL ACCEPTANCE CRITERIA 4. P. P. P. TABLE C-N5.4-3 5.29 2. SIZE, LENGTH AND LOCATION OF WELDS 4. P. P. TABLE C-N5.4-3 6.5. 3. WELDS MEET VISUAL ACCEPTANCE CRITERIA 5. WELD RESERVE TO STRUKE ACCEPTANCE CRITERIA 6. S. WELD BASE-METAL FUSION 6. CRATER CROSS-SECTION 7. WELD BASE-METAL FUSION 7. CRATER CROSS-SECTION 8. P. P. P. TABLE C-N5.4-3 7. TABLE 6 7. WELD PROFILES 7. WELD SIZE 8. WELD SIZE 8. WELD SIZE 8. WELD SIZE 8. WELD SIZE 9. P. P. TABLE C-N5.4-3 7. TABLE 6 7. UNDERCUT 9. P. P. TABLE C-N5.4-3 7. TABLE 6 7. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES 9. P. P. TABLE C-N5.4-3 7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 9. P. P. TABLE C-N5.4-3 7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER 9. P. P. TABLE C-N5.4-3 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER 9. P. P. TABLE C-N5.4-3 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER 9. P. P. TABLE C-N5.4-3 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER 9. P. P. TABLE C-N5.4-3 9. DOCUMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED) 9. P. P. TABLE C-N5.4-3 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER 9. P. P. TABLE C-N5.4-3 9. DOCUMENT ACCEPTANCE OR THE WELDS (IF REQUIRED) 9. P. P. TABLE C-N5.4-3 9. DOCUMENT ACCEPTANCE OR THE SINSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATIN. INDERSTANDING OF REQUIREMENTS AND POSSESSION OF THE SKILLS AND TOLLS [HLH2] TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION THIS TASK, SHALL BE REPORTED THE MED SETTENDS, COMPLETED WELDS. OR OTHER NOWLOND OF THE MED SETTENDS, COMPLETED WELDS. OR OTHER NOWLOND OF THE WELDES THE WELDER DETERMINE THE WELDER DECEMBENT OF THE WELDER DETERMINE THE WELDER DECEMBENT OF THE WELDER FOR SHALL INDICATE THE PIECE MARK OF THE PIECE MARK OF THE PIECE MARK OF THE PIECE MARK	c. EACH PASS MEETS QUALITY REQUIREMENTS	0	0	TABLE C-N5.4-2	
STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION O O TABLE C-N5.4-3 5.29 2. SIZE, LENGTH AND LOCATION OF WELDS P P TABLE C-N5.4-3 6.5.3 WELDS MEET VISUAL ACCEPTANCE CRITERIA P ² P ² TABLE C-N5.4-3 6.5.3 WELDS MEET VISUAL ACCEPTANCE CRITERIA P ² P ² TABLE C-N5.4-3 6.5.3 WELDS MEET VISUAL ACCEPTANCE CRITERIA P ² P ² TABLE C-N5.4-3 6.5.3 WELD MEASE-METAL FUSION P ² P ² TABLE C-N5.4-3 TABLE C WELD WEASE-METAL FUSION P ² P ² TABLE C-N5.4-3 TABLE C WELD WEASE-METAL FUSION P ² P ² TABLE C-N5.4-3 TABLE C WELD PROFILES P ² P ² TABLE C-N5.4-3 TABLE C WELD SIZE P ² TABLE C-N5.4-3 TABLE C WELD S	VERIFICATION AND INSPECTION TASK	QC	QA		AWS D1.1 CLAUSES
1. WELDS CLEANED 2. SIZE, LENGTH AND LOCATION OF WELDS 3. WELDS MEET VISUAL ACCEPTANCE CRITERIA 3. WELDS MEET VISUAL ACCEPTANCE CRITERIA 4. P 4. P 5. TABLE C-NS.4-3 5.2.9 5. WELDS MEET VISUAL ACCEPTANCE CRITERIA 5. WELDS MEET VISUAL ACCEPTANCE CRITERIA 6. S. 6. CRACK PROHIBITION 6. P 6. WELD/BASE-METAL FUSION 6. WELD/BASE-METAL FUSION 7. P 6. WELD/BASE-METAL FUSION 7. P 7. TABLE C-NS.4-3	STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION			ILLI EILEITOE	32/10020
2. SIZE, LENGTH AND LOCATION OF WELDS 2. SIZE, LENGTH AND LOCATION OF WELDS 3. WELDS MEET VISUAL ACCEPTANCE CRITERIA 4. P2 4. TABLE C-N5.4-3 5.5. 3. CRACK PROHIBITION 5. CRACK PROHIBITION 6. WELD/BASE-METAL FUSION 6. WELD/BASE-METAL FUSION 7. TABLE C-N5.4-3 7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 7. DACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 7. DACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 7. DACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 7. DACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 7. DACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 7. DACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 7. DACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 7. DACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 8. REPAIR ACTIVITIES 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER 9. P. P. TABLE C-N5.4-3 9. TABLE C-N5.4-		0	0	TABLE C-N5.4-3	5 20 1
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA P2 P2 TABLE C-N5.4-3 6.5. a. CRACK PROHIBITION P2 P2 TABLE C-N5.4-3 TABLE C b. WELD/BASE-METAL FUSION P2 P2 TABLE C-N5.4-3 TABLE C c. CRATER CROSS-SECTION P2 P2 TABLE C-N5.4-3 TABLE C d. WELD PROFILES P2 P2 TABLE C-N5.4-3 TABLE C p3 P2 P2 TABLE C-N5.4-3 TABLE C p4 P2 P2 TABLE C-N5.4-3 TABLE C p5 P2 P2 TABLE C-N5.4-3 TABLE C p6 P2 P2 TABLE C-N5.4-3 TABLE C p6 P2 P2 TABLE C-N5.4-3 TABLE C p7 P2 P2 TABLE C-N5.4-3 TABLE C p8 P2 P2 TABLE C-N5.4-3 TABLE C p8 P2 P2 TABLE C-N5.4-3 TABLE C p8 P2 P2 TABLE C-N5.4-3 TABLE C p9 P2 P2 TABLE C-N5.4-3 TABLE C p6 P4 P2 P2 TABLE C-N5.4-3 TABLE C p6 P4 P2 TABLE C-N5.4-3 TABLE C p7 P2 P2 TABLE C-N5.4-3 TABLE C p8 P4 P2 TABLE C-N5.4-3 TABLE C p8 P4 P4 TABLE C-N5.4-3 TABLE C p8 P5 P4 TABLE C-N5.4-3 TABLE C p8 P5 P4 TABLE C-N5.4-3 TABLE C p8 P5 P5 TABLE C-N5.4-3 TABLE C p8 P6 P5 TABLE C-N5.4-3 TABLE C p8 P6 P6 TABLE C-N5.4-3 TABLE C p8 P6 P7 TABLE C-N5.4-3 TABLE C p8 P7 TABLE C-N5.4-3 TABLE C p8 P7 TABLE C-N5.4-3 TABLE C p8 P6 P7 TABLE C-N5.4-3 TABLE C p8 P					
REFERENCE REACK PROHIBITION P2 P2 TABLE C-N5.4-3 TABLE (REACK PROHIBITION) P2 P2 TABLE C-N5.4-3 TABLE (REALD ASSASSECTION) P3 P2 TABLE C-N5.4-3 TABLE (REALD ASSASSECTION) P4 P2 TABLE C-N5.4-3 TABLE (REALD ASSASSECTION) P5 P2 TABLE C-N5.4-3 TABLE (REALD ASSASSECTION) P6 P2 P2 TABLE C-N5.4-3 TABLE (REALD ASSASSECTION) P7 P2 TABLE C-N5.4-3 TABLE (REALD ASSASSECTION) P8 P2 P2 TABLE C-N5.4-3 TABLE (REALD ASSASSECTION) P9 P2 TABLE C-N5.4-3 TABLE (REALD ASSASSECTION) REALD ASSASSECTION REALD ASSASS	· · · · · · · · · · · · · · · · · · ·	·			
D. WELD/BASE-METAL FUSION D. CRATER CROSS-SECTION D. CRATER CROSS-SECTION D. CRATER CROSS-SECTION D. P2 D. P2 TABLE C-N5.4-3 TABLE C-N5		•	-		
CRATER CROSS-SECTION P2 P2 TABLE C-N5.4-3 TABLE C-		-	-		
B. WELD PROFILES P2		•	·		\ /
S. WELD SIZE WALD SIZE P2 P2 TABLE C-N5.4-3 TABLE C UNDERCUT P2 P2 TABLE C-N5.4-3 TABLE C T					
E. UNDERCUT [1] POROSITY [2] POROSITY [3] POROSITY [4] ARC STRIKES [5] P P P TABLE C-N5.4-3 TABLE (2) [5] K-AREA ³ [6] WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES [6] WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES [7] BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) [8] P P TABLE C-N5.4-3 S.EE ALS [8] SEC ALS [8] SEC ALS [8] REPAIR ACTIVITIES [9] P TABLE C-N5.4-3 (5.5.4, 6.5.3, 6.5.3, 6.5.4, 6.5.3, 6.5.3, 6.5.4, 6		,	'		TABLE 6.1(4)
P2 P2 TABLE C-N5.4-3 5.2t A. ARC STRIKES P P TABLE C-N5.4-3 5.2t B. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES P P TABLE C-N5.4-3 5.46, 6.5 SEE AIS B. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES P P TABLE C-N5.4-3 5.46, 6.5 SEE AIS B. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) P2 TABLE C-N5.4-3 5.9, 5 B. REPAIR ACTIVITIES P P P TABLE C-N5.4-3 6.5.3, 6 B. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER P P P TABLE C-N5.4-3 6.5.4, 6 B. DOCUMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED) P2 P2 TABLE C-N5.4-3 6.5.4, 6 B. POLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED) P2 P2 TABLE C-N5.4-3 6.5.4, 6 B. DOCUMENT ACCEPTANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING IN FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING INSPECTION TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK, SHOULD THE INSPECTOR DETERMINE THE WELDER DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE- BETTABLISHED ADEQUATE ASSURANCE THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED. B. DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER DISPOSITION, THE REPORT SHALL INDICATE THE PIECE MISSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE PIECE MISSPECTED. FOR FIELD WORK AS BEEN SATISFACTORY REPAIRED SHAPE [HLH3] NOTED IN THE INSPECTION. WERIFICATION AND INSPECTION TASK CONTINUOUS PERIODIC MATERIAL STD REFERENCE STRUCTURAL DECKING			_		TABLE 6.1(6)
4. ARC STRIKES P P TABLE C-N5.4-3 5.26 6. K-AREA ³ P P TABLE C-N5.4-3 6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES P TABLE C-N5.4-3 SEE AIS SECT. 7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) P P TABLE C-N5.4-3 SEE AIS SECT. 8. REPAIR ACTIVITIES P TABLE C-N5.4-3 SEE AIS SECT. 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER P TABLE C-N5.4-3 SEE AIS SECT. 10. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED) P TABLE C-N5.4-3 SEE AIS SECT. 11. FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING JUNDERSTANDING OF REQUIREMENTS AND POSSESSION OF THE SKILLS AND TOLLS [HLH2] TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION SINCEONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE- STABLISHED ADEQUATE ASSURANCE THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED. 2. DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER NDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FO SIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WIT CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORY REPAIRED SHAPE [HLH3] NOTED IN THE INSPECTION. VERIFICATION AND INSPECTION TASK CONTINUOUS PERIODIC MATERIAL STD REFERENCE STRUCTURAL DECKING			-	TABLE C-N5.4-3	TABLE 6.1(7)
5. K-AREA ³ 6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES P P TABLE C-N5.4-3 5.16, 6.5 SEE AIS SECT. 7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) P D D D D D D D D D D D D D D D D D D	,	•	·		TABLE 6.1(8)
S. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES P				TABLE C-N5.4-3	5.28
SEE AIS SECT. 7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) 8. REPAIR ACTIVITIES 9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER 9. P P TABLE C-N5.4-3 10. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED) 10. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED) 11. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED) 12. TABLE C-N5.4-3 13. 6.5-4, 6.5-7 14. FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATINN INDERSTANDING OF REQUIREMENTS AND POSSESSION OF THE SKILLS AND TOLLS [ILLH2] TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THE WELDER DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RESTABLISHED ADEQUATE ASSURANCE THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED. 12. DOCUMENT - THE INSPECTOR SHALL PERPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER NDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FO IDEL WORK, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FO IDEL WORK, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FO IDEL WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WIT CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORY REPAIRED SHAPE [HLH3] NOTED IN THE INSPECTION. 15. JOHN STRUCTURAL DECKING 15. JOHN STRUCTURAL DECKING 16. JOHN STRUCTURAL DECKING 17. JOHN STRUCTURAL DECKING 18. JOHN STRUCTU	5. K-AREA ³	P ²	P ²	TABLE C-N5.4-3	N/A
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STRUCTURAL DECKING				MATERIAL STD	IBC REFERENCE
	STRUCTURAL DECKING				· · · · · · · · · · · · · · · · · · ·
V V V V V V V V V V V V V V V V V V V	1. DECK PLACEMENT AND ATTACHMENT	X	X		+

VERIFICATION AND INSPECTION TASK

THE DESIGN BEARING CAPACITY

SITE HAS BEEN PREPARED PROPERLY

PLACEMENT AND COMPACTION OF COMPACTED FILL

PROPER MATERIAL

1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE

2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED

4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING

PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT

. PERFORM CLASSIFICATIONS AND TESTING OF COMPACTED FILL MATERIAL

OF QUALIFIED WELDERS O O TABLE C-NS.4.2 6.4 TROL AND HANDLING OF WELDING CONSUMABLES O O TABLE C-NS.4.2 5.3.1 OSURE CONTROL O O TABLE C-NS.4.2 5.3.1 SAGING O O TABLE C-NS.4.2 5.3.1 SAGING O O TABLE C-NS.4.2 5.3.2 (FOR SAW) SECED WITHIN LIMITS O O TABLE C-NS.4.2 5.11.1 SPEED WITHIN LIMITS O O TABLE C-NS.4.2 5.11.1 FOLLOWED O TABLE C-NS.4.2 6.3.3, 6.5.2, 6.5.1 INGS ON WELDING EQUIPMENT O O TABLE C-NS.4.2 INGS ON WELDING MATERIALS O O TABLE C-NS.4.2 CICTED WELDING MATERIALS O O TABLE C-NS.4.2 CILDING GAS TYPE/FLOW RATE O O TABLE C-NS.4.2 HEAT APPLED O O TABLE C-NS.4.2 PER POSITION (F, V, H, OH) O TABLE C-NS.4.2 PINICY FERROLL O TABLE C-NS.4.2 <	CONTROL AND HANDLING OF WELDING CONSUMABLES PACKAGING EXPOSURE CONTROL O ENVIRONMENT CONDITIONS WIND SPEED WITHIN LIMITS PRECIPITATION AND TEMPERATURE O WPS FOLLOWED O SETTINGS ON WELDING EQUIPMENT TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F, V, H, OH) INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED WELDING TECHNIQUES O INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS O ERIFICATION AND INSPECTION TASK QC TRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION WELDS CLEANED O SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA P CRACK PROHIBITION P CRACK PROHIBITION O O O O O O O O O O O O	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TABLE C-N5.4-2	6.4 6.2 5.3.1 5.3.2 (FOR SMAW), 5.3.3 (FOR SAW) 5.11.1 5.11.2 6.3.3, 6.5.2, 5.5, 5.20 5.6, 5.7
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5.20	SETTINGS ON WELDING EQUIPMENT OTRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F, V, H, OH) INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS OERIFICATION AND INSPECTION TASK TRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA P2 CRACK PROHIBITION O SIZE, CRACK PROHIBITION P2	0 0 0 0 0 0 0 0 0 0	TABLE C-N5.4-2	5.20 5.6, 5.7 6.5.2, 6.5.3, 5.23 5.29.1
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CCTED WELDING MATERIALS O	SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F, V, H, OH) INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS O ERIFICATION AND INSPECTION TASK QC TRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA P2 CRACK PROHIBITION P2	0 0 0 0 0 0 0 0	TABLE C-N5.4-2	6.5.2, 6.5.3, 5.23 5.29.1 AWS D1.1
REDING GAS TYPE/FLOW RATE	SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F, V, H, OH) INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED WELDING TECHNIQUES INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS O ERIFICATION AND INSPECTION TASK QC TRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA P2 CRACK PROHIBITION P O O O O O O O O O O O O	0 0 0 0 0 0 0 0 0	TABLE C-N5.4-2	6.5.2, 6.5.3, 5.23 5.29.1
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RMIX OF FILLER METALS AVOIDED UNLESS APPROVED O O TABLE C-N5.4-2 DING TECHNIQUES O O TABLE C-N5.4-2 6.5.2, 6.5.3, 5.2	INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED WELDING TECHNIQUES O INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS O ERIFICATION AND INSPECTION TASK QC TRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA P2 CRACK PROHIBITION	0 0 0 0 0 QA	TABLE C-N5.4-2 TABLE C-N5.4-2 TABLE C-N5.4-2 TABLE C-N5.4-2 TABLE C-N5.4-2 MATERIAL STD REFERENCE TABLE C-N5.4-3	5.29.1 AWS D1.1
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ATION AND INSPECTION TASK	ERIFICATION AND INSPECTION TASK CRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION O P2	QA O	MATERIAL STD REFERENCE TABLE C-N5.4-3	
REFERENCE CLAUSES	TRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION WELDS CLEANED SIZE, LENGTH AND LOCATION OF WELDS WELDS MEET VISUAL ACCEPTANCE CRITERIA CRACK PROHIBITION O O P P P P P P P P P P P	0	TABLE C-N5.4-3	
DS CLEANED O O TABLE C-N5.4-3 5.29.1 LENGTH AND LOCATION OF WELDS P P TABLE C-N5.4-3 6.5.1 DS MEET VISUAL ACCEPTANCE CRITERIA P2 P2 TABLE C-N5.4-3 6.5.3 CK PROHIBITION P2 P2 TABLE C-N5.4-3 TABLE 6.1(1) D/BASE-METAL FUSION P2 P2 TABLE C-N5.4-3 TABLE 6.1(2) TER CROSS-SECTION P2 P2 TABLE C-N5.4-3 TABLE 6.1(3) D PROFILES P2 P2 TABLE C-N5.4-3 TABLE 6.1(4), 5.24 D SIZE P2 P2 TABLE C-N5.4-3 TABLE 6.1(6) ERCUT P2 P2 TABLE C-N5.4-3 TABLE 6.1(7) OSITY P2 P2 TABLE C-N5.4-3 TABLE 6.1(7) OSITY P2 P2 TABLE C-N5.4-3 TABLE 6.1(8) STRIKES P P TABLE C-N5.4-3 5.28 REA ³ P2 P2 TABLE C-N5.4-3 5.16, 6.5.2 (& SEE AISC 360 SEE AISC 360 SEE AISC	. WELDS CLEANED O . SIZE, LENGTH AND LOCATION OF WELDS P . WELDS MEET VISUAL ACCEPTANCE CRITERIA P² . CRACK PROHIBITION P²			
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D/BASE-METAL FUSION P2 P2 TABLE C-N5.4-3 TABLE 6.1(2) TER CROSS-SECTION P2 P2 TABLE C-N5.4-3 TABLE 6.1(3) D PROFILES P2 P2 TABLE C-N5.4-3 TABLE 6.1(4), 5.24 D SIZE P2 P2 TABLE C-N5.4-3 TABLE 6.1(6) ERCUT P2 P2 TABLE C-N5.4-3 TABLE 6.1(7) OSITY P2 P2 TABLE C-N5.4-3 TABLE 6.1(8) STRIKES P P TABLE C-N5.4-3 5.28 REA³ P2 P2 TABLE C-N5.4-3 N/A D ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES P P TABLE C-N5.4-3 5.16, 6.5.2 (& SEE AISC 360		<u> </u>		
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REA ³ D ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES P TABLE C-N5.4-3 N/A TABLE C-N5.4-3 SEE AISC 360		•	TΔRI E C-N5 4-3	
D ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES P TABLE C-N5.4-3 5.16, 6.5.2 (& SEE AISC 360				
SECT. J1.6)		<u> </u>		
	. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) P2	P ²	TABLE C-N5.4-3	
	. REPAIR ACTIVITIES P	P ²	TABLE C-N5.4-3	6.5.3, 5.25
	DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER P	Р	TABLE C-N5.4-3	6.5.4, 6.5.5
AIR ACTIVITIES P P2 TABLE C-N5.4-3 6.5.3, 5.25	0. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED) P2	P^2	TABLE C-N5.4-3	6.5.4, 6.5.5
KING REMOVED AND WELD TABS REMOVED (IF REQUIRED) P2 F	. WELD PROFILES . WELD SIZE UNDERCUT . POROSITY . ARC STRIKES . K-AREA ³ . WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES P . BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) . REPAIR ACTIVITIES	F F F F	D D D D D D D D D D D D D D D D D D D	TABLE C-N5.4-3
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AIR ACTIVITIES P P2 TABLE C-N5.4-3 6.5.3, 5.25				

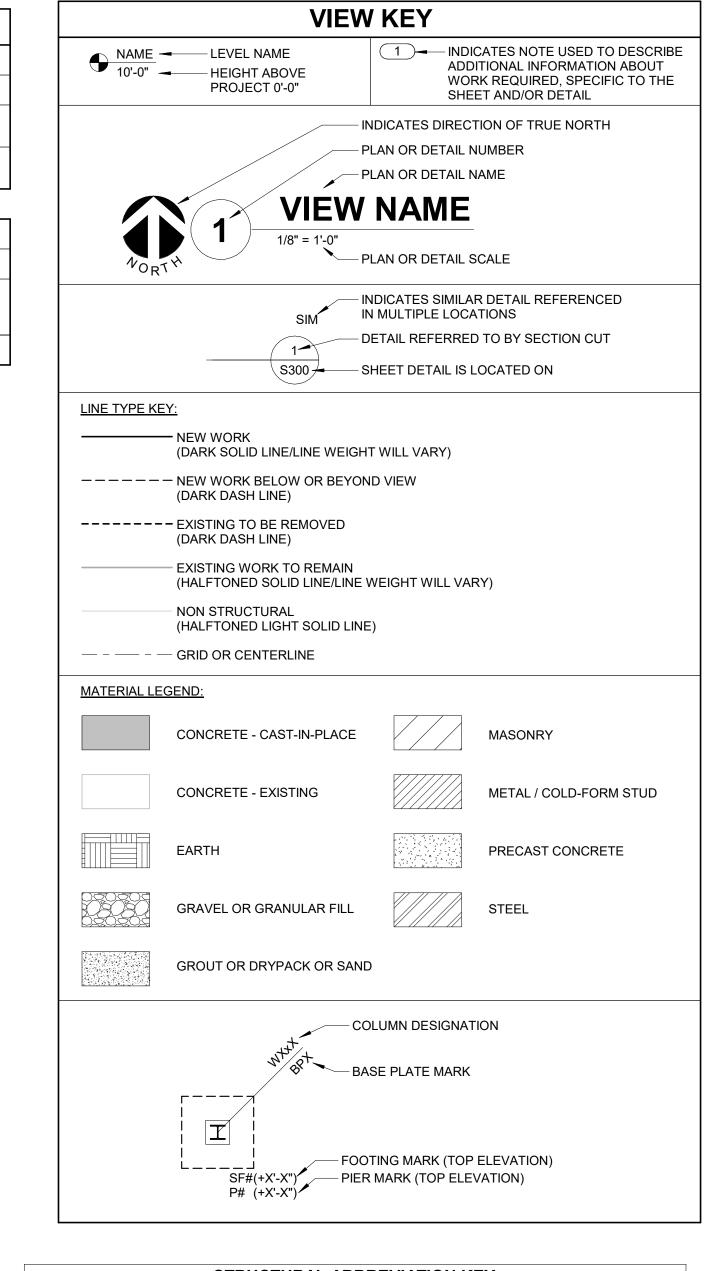
CONTINUOUS PERIODIC MATERIAL STD

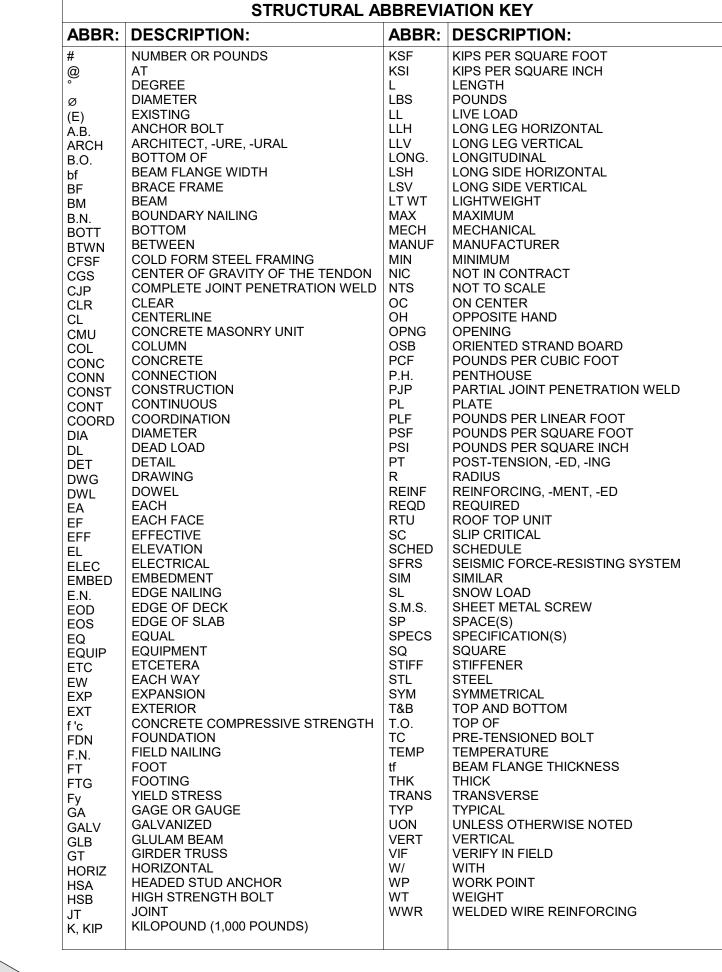
(3D) VIEW – FOR REFERENCE ONLY

REFERENCE REFERENCE



	STRUCTURAL SYMBOL	. LIST
ENERAL S	SYMBOLS:	
SYMBOL	DESCRIPTION	DETAIL REFERENCE
(+16'-3")	TOP OF STRUCTURAL FRAMING ABOVE ELEVATION (+0'-0")	N/A
(-2'-0")	TOP OF STRUCTURAL FOUNDATION BELOW ELEVATION (+0'-0")	N/A
	IDOLO	
TEEL SYN	BOLS:	
SYMBOL	DESCRIPTION	DETAIL REFERENCE
		DETAIL REFERENCE

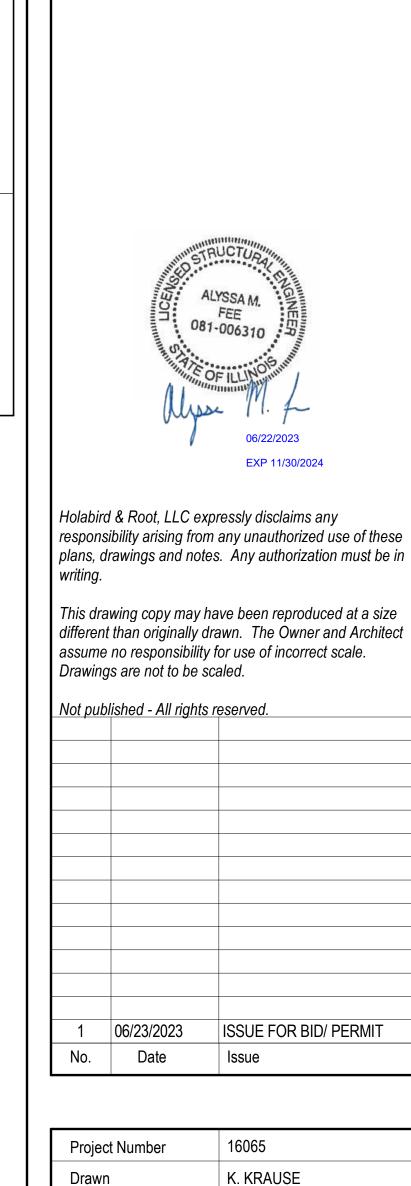








Tel: 312 357 1771 Fax: 312 357 1909 www.holabird.com



A. FEE

Village of Gurnee Public Works

Material Bin Reconstruction Project

1151 Kilbourne Rd, Gurnee, IL 60031

R. ALVES

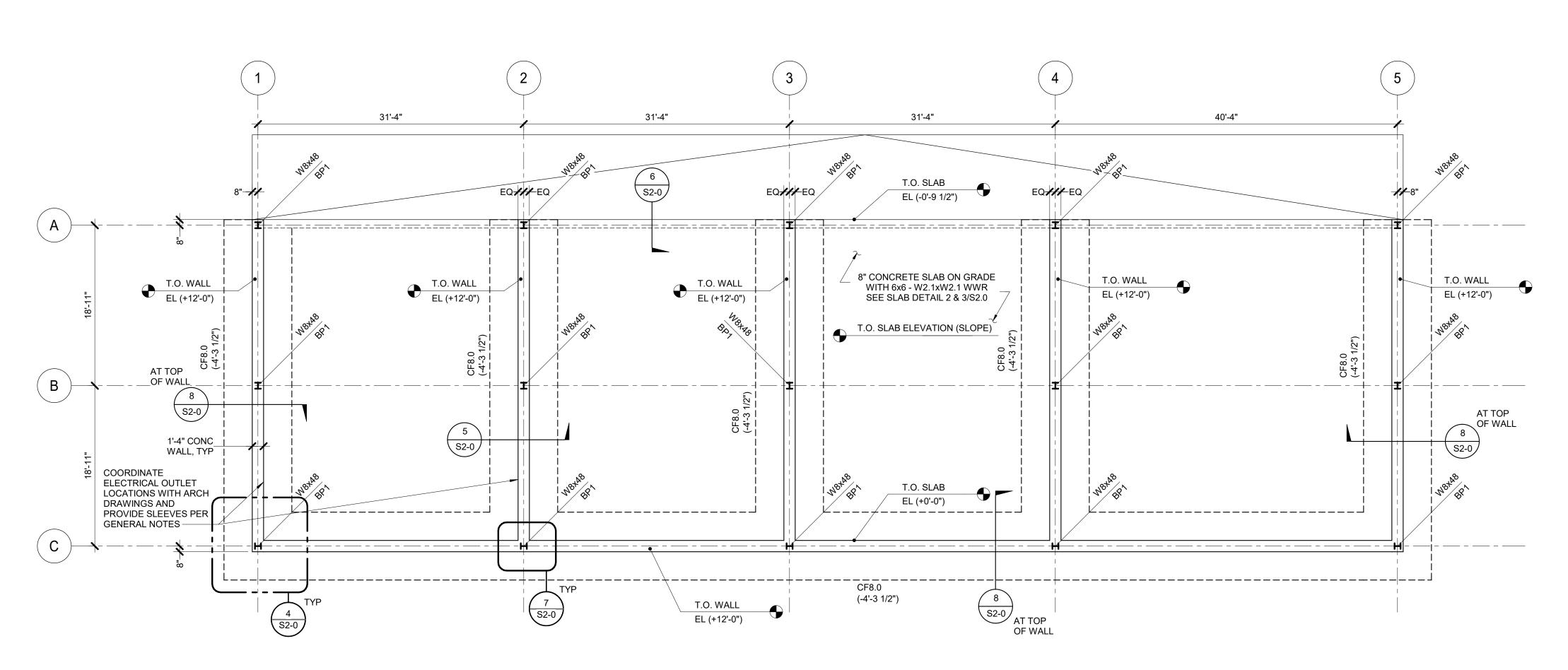
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Proj. Arch./Eng.

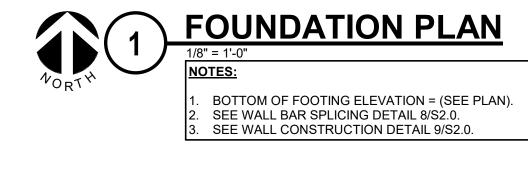
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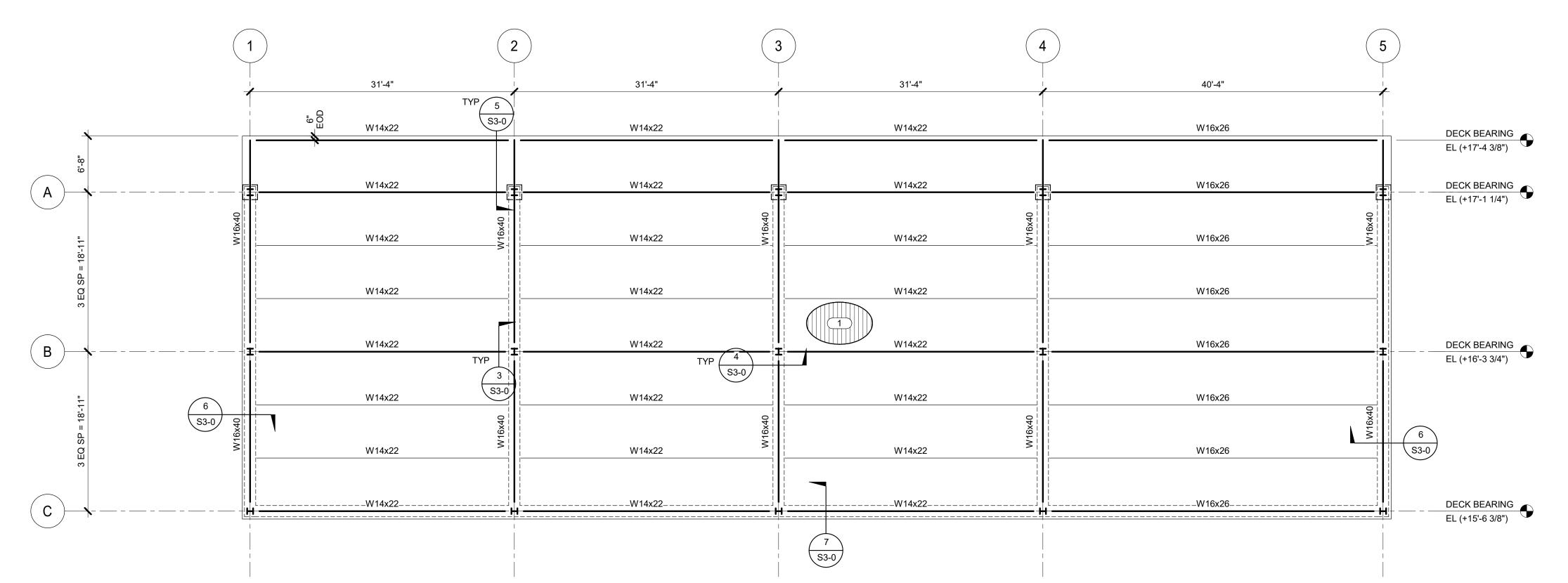
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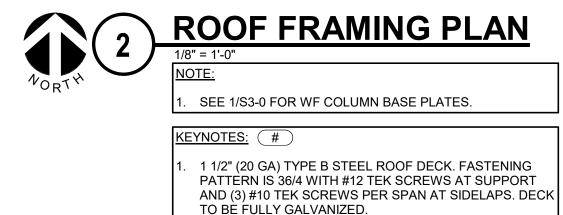
TESTING SCHEDULE



CONTINUOUS FOOTING SCHEDULE						
			REINF	ORCING		
MARK	WIDTH	THICKNESS	LONG DIRECTION	SHORT DIRECTION		
CF8.0	8'-0"	1'-6"	#5 @ 8" OC TOP AND BOTTOM	#5 @ 8" OC TOP AND BOTTOM		







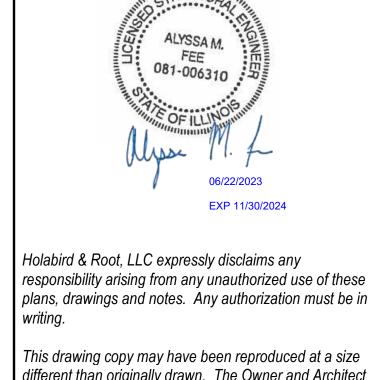
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ı		
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	Drawn	K. KRAUSE
	Checked	A. FEE
	Proj. Arch./Eng.	R. ALVES



Village of Gurnee Public Works Material Bin Reconstruction Project

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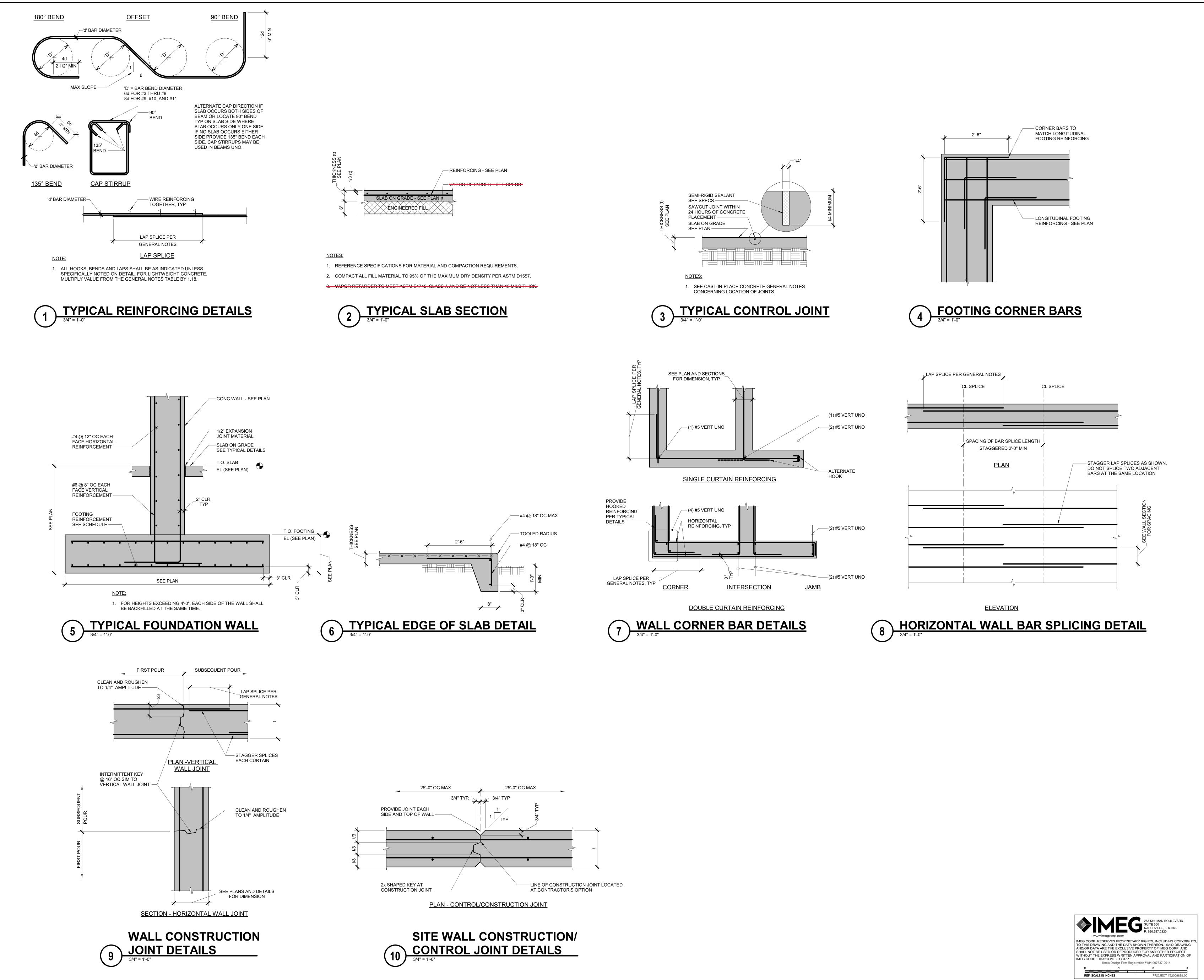
Project Name

FOUNDATION AND ROOF FRAMING PLANS

Sheet Name

Drawing No.

S1-1



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140 South Dearborn Chicago, IL 60603

Tel: 312 357 1771 Fax: 312 357 1909

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Project Number 16065

Drawn K. KRAUSE

Checked A. FEE

Proj. Arch./Eng. R. ALVES



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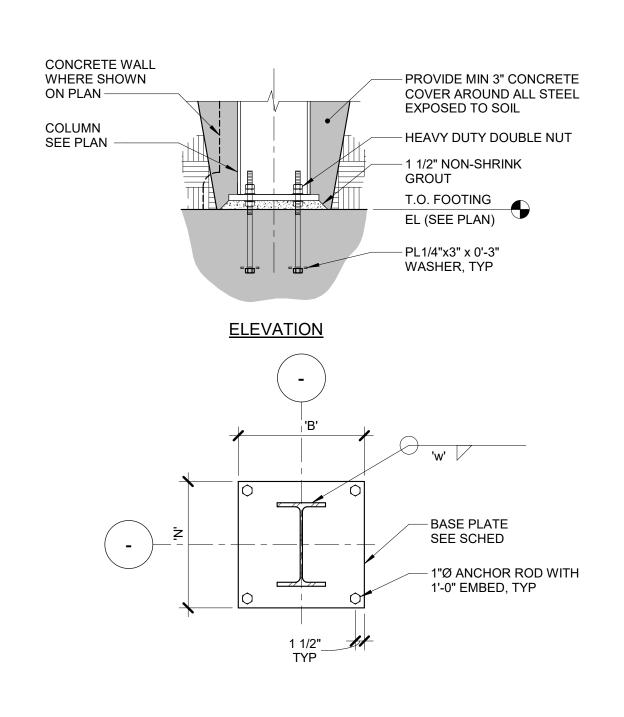
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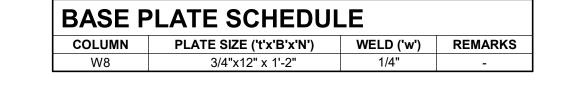
Project Name

CONCRETE DETAILS

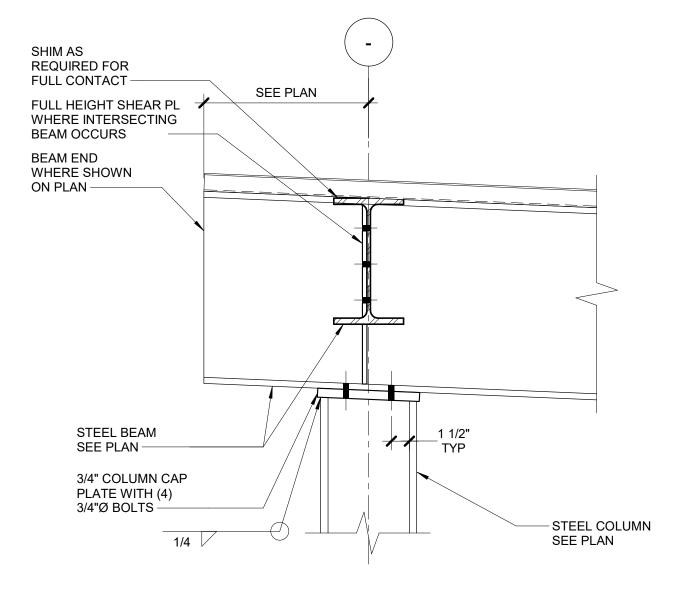
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S2-0

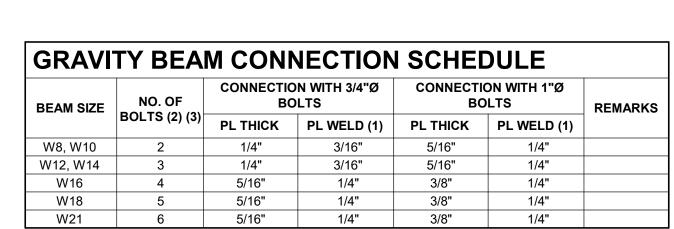




(1) WF COLUMN BASE PLATE DETAILS 3/4" = 1'-0"



BEAM BEARING ON COLUMN



NOTES:

STEEL DECK - SEE PLAN -

STEEL BEAM - SEE PLAN -

- FILLET WELD SIZE, 'w', SHALL BE AS SHOWN UNLESS A LARGER SIZE IS REQUIRED BY AISC STEEL CONSTRUCTION MANUAL, TABLE J2.4.
 WHERE NUMBER OF BOLTS NOTED IN SCHED CANNOT BE IN A SINGLE ROW
- ADD SECOND ROW WITH TWO BOLTS MINIMUM.

 3. BOLT SIZE AND QUANTITY SHALL BE TYP FOR ALL CONDITIONS UNLESS

6 CLADDING SUPPORT DETAIL

\bigcirc	TYPICAL 3/4" = 1'-0"	SHEAR	CONNEC	TION TO	O BEAN
\	3/4" = 1'-0"				

3/16 2@12

- CLADDING AND

FLASHING BY OTHERS

--- 6"x4"x1/4" BENT PLATE (LLH) CONT. HOLD ENDS SHORT OF

COLUMNS TO ALLOW WELD AT

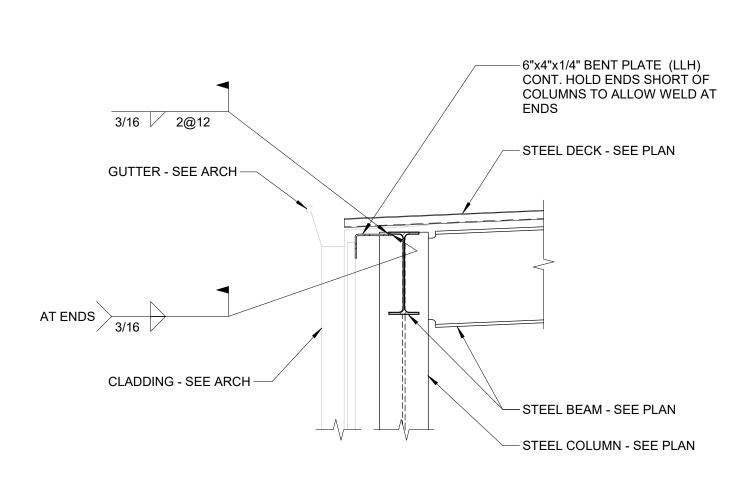
COPE BEAM

FLANGES AS

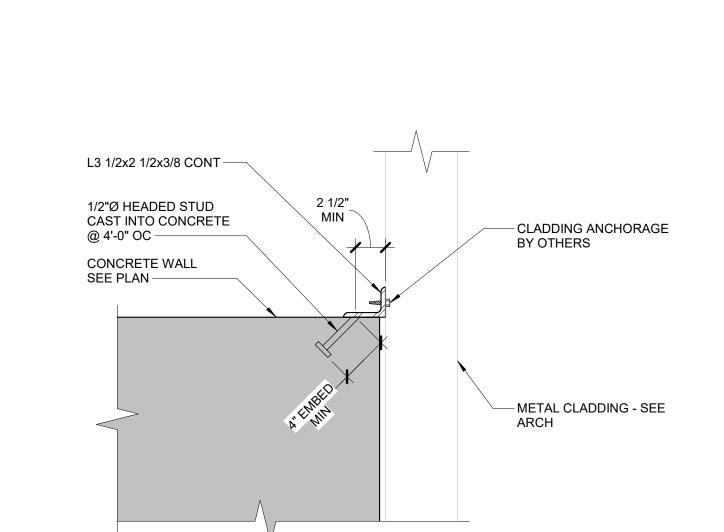
REQUIRED —

WHERE SHOWN

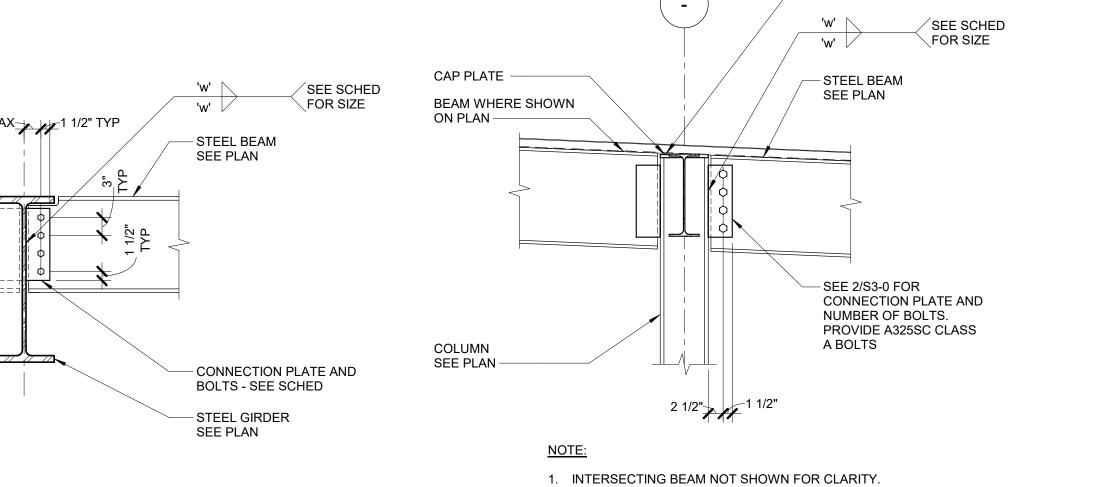
ON PLAN —



7 CLADDING SUPPORT DETAIL



8 CLADDING ANCHORAGE AT BASE



TYPICAL SHEAR CONNECTION

TO COLUMN FLANGE AT ROOF

3/4" = 1'-0"

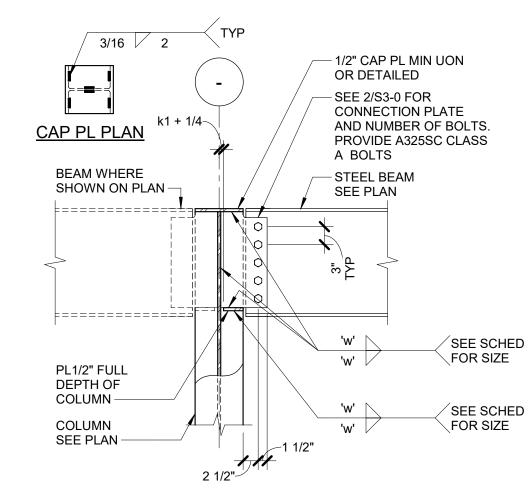
TYPICAL

TO COLUMN FLANGE AT ROOF

4

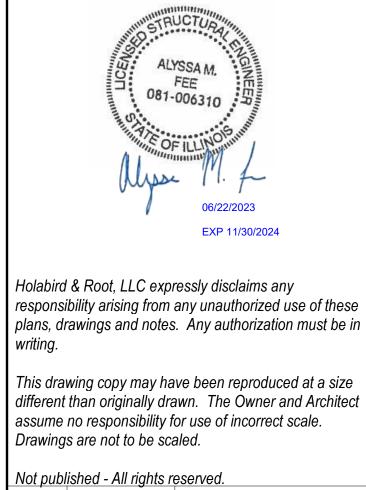
3/4" = 1'-0"

SHIM AS REQUIRED



TYPICAL SHEAR CONNECTION
TO COLUMN WEB AT ROOF

3/4" = 1'-0"



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Project Name

STEEL DETAILS

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S3-0

