ADDENDUM

Public Building Commission of Chicago | Richard J. Daley Center | 50 West Washington Street, Room 200 | Chicago, Illinois 60602 | (312) 744-3090 | pbcchicago.com

ADDENDUM NO.: **4**

PROJECT NAME: **Read Dunning School**

PROJECT NO.: **05165**

CONTRACT NO.: **C1591**

DATE OF ISSUE: **March 2, 2018**

NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum. Issued Addenda represent responses/clarifications to various inquiries. Contractors shall be responsible for including all associated labor/material costs in its bid. Drawings/specifications corresponding to inquiry responses will be issued with the Issue for Construction Documents, upon issuance of building permit.

ITEM NO. 1: **CHANGE TO KEY DATES**

None.

ITEM NO. 2: **REVISIONS TO BOOK 1 – PBC INSTRUCTIONS TO BIDDERS**

Change 1 Section IV. Proposal and Execution Documents – B. – **REMOVED** Bid Form in its entirety and **REPLACED WITH** Attachment A. – Read Dunning School Revised Bid Form.

Change 2 Section IV. Proposal and Execution Documents – A. – **ADD** 'MARQUEE SIGN ALLOWANCE SCHEDULE – 1. None'

Change 3 Section V. Proposal Support Documents – A.(2) – **REMOVE** 'Line 1. TOTAL BASE BID (Refer to Line 6 of BID FORM), in figures _____' in its entirety and **REPLACE WITH** 'Line 1. TOTAL BASE BID (Refer to Line 7 of BID FORM), in figures _____'

ITEM NO. 3: **REVISIONS TO BOOK 2 – PBC STANDARD TERMS AND CONDITIONS**

None.

ITEM NO. 4: **REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS**

Change 1 Book 3, Volume 1 – Section 32 13 13 Portland Cement Concrete Paving – **ADDED** color pigment

Change 2 Book 3, Volume 1 – Section 32 84 23 Underground Irrigation System – **ADDED** hose reels

ITEM NO. 5: **REVISIONS TO DRAWINGS**

Change 1. L2.00 Irrigation Plan – **ADDED** hose reels

Change 2. A1.11 Partial Site Plan A – **REVISED** soccer field striping, **ADDED** goal post basis of design, **REVISED** goal post note, **ADDED** marquee sign information

Change 3. A1.30 Enlarged Site Plan – **REVISED** detail 5/A1.30 for combination football and soccer goal post

Change 4. A2.32 Third Floor Plan Academic Wing Area B – **REVISED** parapet width at curtain wall.

Change 5. A2.40 Roof Plan Overall – **REVISED** parapet width at curtain wall.

Change 6. A2.42 Roof Plan Academic Wing Area B – **REVISED** parapet width at curtain wall.

Change 7. A8.70 – A8.72 Enlarged Plan, Elevations & Details, Toilets – **ADDED** accent wall ceramic tile pattern.

ITEM NO. 6: **REQUESTS FOR INFORMATION**

None.

List of Attachments and Drawings:

This Addendum includes the following attached Specifications and/or Documents:

1. Attachment A. – Read Dunning School Revised Bid Form
2. Section 32 13 13 Portland Cement Concrete Paving
3. Section 32 84 23 Underground Irrigation System

This Addendum includes the following attached Drawings:

1. L2.00 Irrigation Plan – dated 03/02/2018
2. A1.11 Partial Site Plan A – dated 03/02/2018
3. A1.30 Enlarged Site Plan – dated 03/02/2018
4. A2.32 Third Floor Plan Academic Wing Area B – dated 03/02/2018
5. A2.40 Roof Plan Overall – dated 03/02/2018
6. A2.42 Roof Plan Academic Wing Area B – dated 03/02/2018
7. A8.70 Enlarged Plan, Elevations & Details, Toilets – dated 03/02/2018
8. A8.71 Enlarged Plan, Elevations & Details, Toilets – dated 03/02/2018
9. A8.72 Enlarged Plan, Elevations & Details, Toilets – dated 03/02/2018

END OF ADDENDUM NO. 4

ATTACHMENT A – READ DUNNING SCHOOL REVISED BID FORM

B. BID FORM

FIRM NAME:

LINE	ITEM	AMOUNT
1.	BASE WORK ONLY	$
2.	COMMISSION'S CONTRACT CONTINGENCY	$ 1,475,000.00
3.	SITE WORK ALLOWANCE	$ 350,000.00
4.	CAMERA ALLOWANCE	$ 450,000.00
5.	MOISTURE MITIGATION ALLOWANCE	$ 600,000.00
6.	MARQUEE SIGN ALLOWANCE	$ 150,000.00
7.	TOTAL BASE BID (Lines 1+2+3+4+5+6)	$
AWARD CRITERIA FIGURE (See Section V. Proposal Support Document, line 15 of Award Criteria Figure)		$

SURETY: Please specify full legal name and address of Surety:

_____

_____

_____

SECTION 32 13 13

PORTLAND CEMENT CONCRETE PAVING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes Portland cement concrete paving required to complete the project.

1.2 SUBMITTALS

A. Laboratory Test Reports: Submit 2 copies of laboratory test reports to concrete materials and mix design tests.

B. Delivery Tickets: Submit copies of delivery tickets for each load of concrete delivered to the site.

C. Product Data: Submit copies of manufacturer's specifications with application and installation instructions for proprietary materials and items upon request.

D. LEED Submittals:

1. Product Data for Credit MR 4: For products having recycled content, documentation indicating percentages by weight of post-consumer and pre-consumer recycled content. Include statement indicating costs for each product having recycled content.
2. Product Data for Credit MR 5: For products and materials that comply with requirements for regional materials, documentation indicating location and distance from Project of material manufacturer and point of extraction, harvest, or recovery for each raw material. Include statement indicating cost for each regional material and the fraction by weight that is considered regional.

1.3 QUALITY ASSURANCE

A. Perform work in accord with IDOT Standard Specifications for Road and Bridge Construction 2016 and City of Chicago requirements.

B. Obtain materials from same source throughout.

C. Regulatory Requirements:

1. Illinois Steel Products Procurement Act as amended (Illinois Revised Statues, Ch. 48, par. 1901 et. seq.).
2. City of Chicago.

D. Mock-Up:

1. Samples Panel:

a. General Contractor: Before installing any exterior concrete paving, provide a sample paving panel for a typical concrete walk inclusive of a handicapped curb ramp.
b. Paving is to show the proposed color, surface finish of both the walk and textured ramp surface, reinforcement, control and expansion joints, sealant and workmanship.
c. Panel size shall be a minimum of 5' -0" wide x 15' -0" long in the presence of the Architect prior to the installation of these materials on the site.
d. Erect the panel in a location acceptable to the Architect and in the presence of the Architect prior to the installation of these materials on the site.
e. Do not start concrete site work until the Architect has given written approval of all components of the sample panel.
f. This sample panel will be used as a standard of comparison for all site concrete constructed of same materials.

E. Concrete Testing Service:

1. The Owner will employ a separate testing laboratory to perform initial field quality control testing.
2. Materials and installed Work may require testing and retesting at any time during the progress of the Work. Allow free access to material stockpiles and facilities at all times. Retesting of rejected materials and installed Work shall be done at the Contractor's expense.
3. Three concrete test cylinders shall be taken for every 75 or less cu. yds. of each class of concrete placed each day.
4. One additional test cylinder shall be taken during cold weather and be cured on site under same conditions as concrete it represents.
5. One slump test shall be taken for each set of test cylinders taken.

PART 2 - PRODUCTS

2.1 FORM MATERIALS

A. Comply with IDOT Specification, Article 803.04.

2.2 REINFORCEMENT

A. Reinforcing steel: ASTM A 615: Grade 60, epoxy coated.

B. Welded steel wire fabric: Plain type, ASTM A 185; rolls; epoxy coated.

C. Tie wire: Annealed steel, minimum 16 gauge size.

D. Dowels: ASTM A 615; Grade 40, plain steel, epoxy coated.

2.3 ACCESSORIES

A. Curing compound: Comply with IDOT Specification, Article 718.04. Also see Part 3.09 Curing.

B. Liquid surface sealer. ASTM D 3405.

C. Preformed joint filler: ASTM D 1751.

2.4 ADMIXTURES

A. Air entrainment admixture: Comply with ASTM C 260.

B. Chemical admixture: Comply with ASTM C 94.

2.5 **COLOR PIGMENT**

A. **ASTM C979, synthetic mineral-oxide pigments or colored water-reducing admixtures; color stable, free of carbon black, nonfading, and resistant to lime and other alkalis.**

1. **Manufacturers:**

a. **ChemMasters.**
b. **Davis Colors.**
c. **Elementis Pigments, Inc.**
d. **Hoover Color Corporation.**
e. **Lambert Corporation.**
f. **Scofield, L.M. Company.**
g. **Solomon Colors.**

2. **Color: Match Architect's sample.**

2.6 CONCRETE MIX

A. Mix concrete in accordance with IDOT 2016, Article 1020.04, 1029.08 and Section 1103 for Class SI Concrete. Also mix in accordance with Part 3.03.

B. Provide concrete for paving of the following characteristics:

1. Compressive strength:

a. At 7 days: 2450 psi.
b. At 28 days: 3500 psi.

C. Use accelerating admixtures in cold weather only with Architect prior written approval. Use of admixtures will not relax cold weather placement requirements.

D. Add air entraining agent to concrete mix for concrete work subject to freeze/thaw cycling and exposed to exterior.

PART 3 - EXECUTION

3.1 SUBGRADE PREPARATION

A. Prepare in accordance with IDOT2016, Section 213 and 301.

1. Proof roll areas under drives and parking areas.

B. Provide additional fill for soft spots and hollows.

C. Level and Compact subgrade, to receive granular base for concrete work, to 95% Modified Proctor Density.

3.2 CONCRETE PLACING

A. Place all paving concrete in accordance with IDOT 2016, Section 408.

B. Place concrete for sidewalks in accordance with IDOT 2016, Section 624.

C. Cure concrete in accordance with IDOT 2016, Section 625, and 718.04.

3.3 INSPECTION

A. The Testing Laboratory shall verify that the compacted base is ready to support paving and imposed loads.

B. Verify gradients and elevations of base are correct.

C. Start of installation constitutes acceptance of existing conditions.

3.4 PREPARATION

A. Moisten base to minimize absorption of water from fresh concrete.

B. Notify Architect minimum 24 hours before start of concreting operations.

3.5 FORMING

A. Place and secure forms to correct location, dimensions and profile.

B. Assemble formwork to permit easy stripping and dismantling without damaging concrete.

C. Place joint fillers vertical in position, in straight lines. Secure to formwork during concrete placement.

3.6 REINFORCEMENT

A. Place reinforcement at mid-height of slabs-on-grade.

B. Interrupt reinforcement at contraction and expansion joints.

C. Place reinforcement to achieve slab and curb alignment as detailed.

D. Provide dowelled joints at interruptions of concrete with one end of dowel set in capped sleeve to allow longitudinal movement.

3.7 FORMED JOINTS

A. Place expansion, control and contraction joints as shown on the drawings. Align curb, gutter and sidewalk joints.

B. All expansion joints in concrete paving, sidewalk paving, and curb shall be sealed per IDOT SSRBC.

C. Place joint filler between paving components and building (s) or other appurtenances. Recess top of filler 1/2 inch for sealer placement.

D. Provide scored, joints at 5 feet intervals of sidewalk except where otherwise shown.

3.8 CURING

A. Curing and protection shall be as outlined in IDOT Sections 625 and 718.04. Color lithochrome color wax matching the colored concrete as manufactured by L.M. Schofield Company or approved equal, and applied in accordance with the manufacturer's written instructions; or white pigmented curing compound as outlined in IDOT Section 718.04.a are the preferred curing methods. White-opaque polyethylene film shall not be accepted as a curing method.

3.9 FINISHING

A. Area paving: Light broom, radiused and trowel joint edges, wood float.

B. Sidewalk paving: Light broom, radiused and trowel joints edges, wood float.

C. Curbs and gutters: Light broom.

D. Handicap curb ramps: Provide detectable warning consisting of raised truncated domes with a diameter of nominal .9in. (23mm) a height of nominal .2 in. (5mm) and a center to center spacing of nominal 2.35 in. (60mm) and shall contrast visually with adjoining surfaces. The detectable warning shall comply with the Americans with Disabilities Accessibility Guidelines (ADAAG) and the pattern to be continuous throughout the ramp width and side flares at each location.

E. Place curing compound on exposed concrete surfaces immediately after finishing. Apply in accordance with manufacturer's current printed instructions.

3.10 PROTECTION

A. Immediately after placement, protect concrete from premature drying, excessive hot or cold temperatures and mechanical injury. Maintain protection until accepted.

3.11 FIELD QUALITY CONTROL

A. Maintain record of placed concrete items. Record date, location of pour, quantity, air temperature and test samples taken.

B. Initial Testing: The Owner will employ a separate testing laboratory to perform field quality control testing.

C. Additional Tests: The testing service will make additional tests of in-place concrete when test results indicate the specified concrete strengths and other characteristics have not been attained in the structure, as directed by the Architect. The Contractor shall pay for such tests conducted, and any other additional testing as may be required, when unacceptable concrete is verified.

D. Formed Concrete Dimensional Tolerances:

1. Formed concrete having any dimension smaller or greater than required, and outside the specified tolerance limits, will be considered deficient in strength and subject to additional testing as herein specified.
2. Formed concrete having any dimension greater than required will be rejected if the appearance or function of the structure is adversely affected, or if the larger dimensions interfere with other construction. Repair, or remove and replace rejected concrete as required to meet the construction conditions. When permitted, accomplish the removal of excessive material in a manner to maintain the strength of the section without affecting function and appearance.

E. Defective Work: Concrete work which does not conform to the specified requirements, including strength, tolerances, and finishes, shall be corrected at the Contractor's expense, without extension of time therefore. The Contractor shall also be responsible for the cost of corrections to any other work affected by or resulting from corrections to the concrete work.

END OF SECTION

SECTION 32 84 23

UNDERGROUND IRRIGATION SYSTEM

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes design and installation of a quick coupler system for the entire site.

1.2 SYSTEM PERFORMANCE REQUIREMENTS

A. System Design: The system designer/installer shall design the system utilizing the following general guidelines:

1. The system shall provide quick couplers as noted on the drawings and 100% coverage of the lawn area in the track infield as an alternate.
2. All inside piping shall be copper as specified.
3. Exterior piping can be PVC.
4. System shall comply with City of Chicago codes and requirements, including meter (if required) and RP backflow preventer and must be inspected and approved by the City.
5. Two extra wires shall be provided to all valves.
6. Provide gate valves as required to isolate parts of the total system for the purpose of leak detection.

B. Minimum Working Pressures: The following are minimum pressure requirements for piping, valves, and specialties, unless otherwise indicated:

1. Pressure Piping: 200 psig (1380 kPa).
2. Circuit Piping: 150 psig (1035 kPa).
3. Drain Piping: 100 psig (690 kPa).

1.3 SUBMITTALS

A. Product Data: Include pressure rating, rated capacity, settings, and electrical data of selected models for the following:

1. Quick couplers.
2. Valves. Include aboveground and underground; general-duty, manual control, and quick-coupler types.
3. Valve boxes.
4. Traveling Sprinklers.

B. Shop Drawings: Show quick coupler piping including plan layout and locations, types, sizes, and capacities. Include water meters, backflow preventers, valves, piping, quick couplers and accessories.

C. Coordination Drawings: Show piping and major system components. Indicate interface and spatial relationship between piping, system components, adjacent utilities, and proximate structures.

D. Test Reports: As specified in "Field Quality Control" Article in Part 3.

E. Maintenance Data: Submit three (3) bound copies of Maintenance Data Operating Instructions and Parts Lists. Include data for the following:

1. Water regulators.
2. Quick couplers.
3. Traveling Sprinklers.

1.4 QUALITY ASSURANCE

A. System Designer/Installer: Experienced in layout and installation of quick coupler and irrigation systems as a primary business for a minimum of ten (10) years.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.

C. Comply with requirements of utility supplying water and authorities having jurisdiction for preventing backflow and back siphonage.

D. Comply with ASTM F 645, "Guide for Selection, Design, and Installation of Thermoplastic Water Pressure Piping Systems."

E. Comply with NFPA 70, "National Electrical Code," for electrical connections between wiring and electrically operated devices.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Preparation for Transport: Prepare valves according to the following:

1. Ensure that valves are dry and internally protected against rust and corrosion.
2. Protect valves against damage to threaded ends and flange faces.
3. Set valves in best position for handling. Set valves closed to prevent rattling.

B. During Storage: Use precautions for valves according to the following:

1. Do not remove end protectors unless necessary for inspection; then, reinstall for storage.
2. Protect from weather. Store indoors and maintain temperature higher than ambient dew-point temperature. Support off ground or pavement in watertight enclosures when outdoor storage is necessary.

C. Deliver piping with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe-end damage and to prevent entrance of dirt, debris, and moisture.

D. Protect stored piping from moisture and dirt. Elevate above grade. Do not exceed structural capacity of floor when storing inside.

E. Protect flanges, fittings, and specialties from moisture and dirt.

F. Store plastic piping protected from direct sunlight. Support to prevent sagging and bending.

1.6 PROJECT CONDITIONS

A. Perform site survey, research public utility records, and verify existing utility locations.

B. Investigate and determine available water supply, water pressure and flow characteristics.

1.7 SEQUENCING AND SCHEDULING

A. Maintain uninterrupted water service to building during normal working hours. Arrange for temporary water shutoff with Owner.

B. Coordinate quick coupler piping with landscaping.

C. Coordinate quick coupler piping with utility work.

1.8 EXTRA MATERIALS

A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents. Deliver extra materials to Owner.

1. Quick Couplers: Furnish quantity of units equal to 10 percent of amount of each size installed.
2. Specialties: Furnish quantity of units equal to 20 percent of amount of each type installed.
3. Valve Keys: Furnish quantity of tee-handle units equal to 25 percent of amount of each type of key-operated, control valve installed.
4. Quick-Coupler Hose Swivels: Furnish quantity of units equal to 25 percent of amount of each type of quick coupler installed.
5. Quick-Coupler Operating Keys: Furnish quantity of units equal to 25 percent of amount of each type of quick coupler installed.
6. Traveling Sprinklers: Furnish four (4) Traveling Sprinklers to the school for use in watering the lawn. The Sprinklers shall be by Big Sprinkler, www.bigsprinkler.com, ReelGreen Model RG25 Traveling Sprinkler, #855.805.7901. Sprinklers to include reels, hoses, nozzles and fittings.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Cast-Iron, Gate Valves for Underground Installation:

a. American AVK Co.
b. American Cast Iron Pipe Co.; American Flow Control Div.
c. American Cast Iron Pipe Co.; Waterous Co.
d. East Jordan Iron Works, Inc.
e. Grinnell Corp.; Mueller Co.; Water Products Div.

f. McWane, Inc.; Clow Valve Co. Div.
g. McWane, Inc.; Kennedy Valve Div.
h. M & H Valve Co.
i. Stockham Valves & Fittings, Inc.
j. United States Pipe & Foundry Co.

2. Bronze Corporation Stops and Valves for Underground Installation:

a. Ford Meter Box Co., Inc.
b. Grinnell Corp.; Mueller Co.; Water Products Div.
c. Jones: James Jones Co.
d. Kitz Corp. of America.
e. Lee Brass Co.
f. Master Meter, Inc.
g. McDonald: A.Y. McDonald Mfg. Co.
h. Red Hed Manufacturing Co.

3. PVC Valves for Control-Valve Box Installation:

a. American Valve, Inc.
b. Asahi/America, Inc.
c. Campbell Manufacturing, Inc.
d. Colonial Engineering, Inc.
e. Fischer: George Fischer, Inc.
f. Hayward Industrial Products, Inc.
g. Jomar International, Ltd.
h. Nibco, Inc.
i. Orbit Irrigation Products.
j. Plast-O-Matic Valves, Inc.
k. Sloane: R & G Sloane Manufacturing Co., Inc.

4. Plastic, Automatic Control Valves:

a. Buckner, Inc.
b. Ceres Products Corp.
c. Champion Irrigation Products.
d. Hardie: James Hardie Irrigation, Inc.; Landscape Div.
e. Hit Products Corp.
f. Hunter Industries.
g. Imperial Underground Sprinkler Co.
h. Nelson: L.R. Nelson Corp.
i. Netafim Irrigation, Inc.
j. Orbit Irrigation Products.
k. Rain Bird Sprinkler Mfg. Corp.
l. Telsco Industries; Weather-Matic Sprinkler Div.
m. Toro Co.; Irrigation Div.

5. Control-Valve Boxes:

a. American Drainage Products, Inc.
b. AMETEK; Plymouth Products Div.

c. Applied Engineering Products.
d. Carson-Brooks Plastics, Inc.
e. DFW/HPI.
f. Morrison Molded Fiber Glass Co.; Quazite Div.
g. NDS, Inc.
h. Normandy Products Co.
i. Orbit Irrigation Products.

6. Quick Couplers:

a. Buckner, Inc.
b. Ceres Products Corp.
c. Champion Irrigation Products.
d. Nelson: L.R. Nelson Corp.
e. Rain Bird Sprinkler Mfg. Corp.
f. Telsco Industries; Weather-Matic Sprinkler Div.
g. Toro Co.; Irrigation Div.
h. Western Brass Works.

7. Water Regulators:

a. Bermad, Inc.
b. Cashco, Inc.
c. Cla-Val Co.
d. Conbraco Industries, Inc.
e. FLOMATIC Corp.
f. GA Industries, Inc.
g. Honeywell Braukmann.
h. IMI Cash Valve, Inc.
i. Watts Industries, Inc.; Water Products Div.
j. Zurn Industries, Inc.; Wilkins Div.

8. Miscellaneous Specialties:

a. Agricultural Products, Inc.
b. Buckner, Inc.
c. Drip In Irrigation Co.
d. Hardie: James Hardie Irrigation, Inc.; Landscape Div.
e. Imperial Underground Sprinkler Co.
f. Netafim Irrigation, Inc.
g. Rain Bird Sprinkler Mfg. Corp.
h. Raindrip, Inc.
i. Salco Products, Inc.
j. Telsco Industries; Weather-Matic Sprinkler Div.
k. Toro Co.; Irrigation Div.

2.2 PIPES AND TUBES

A. Hard Copper Tubing: ASTM B 88, Types L and M (ASTM B 88M, Types B and C), drawn-temper, water tube.

B. PVC Pipe: ASTM D 1785, PVC 1120 compound, Schedules 40 and 80 as further specified.

C. PVC Pressure-Rated Pipe: ASTM D 2241; PVC 1120 compound; SDRs 21, 26, and 32.5.

D. PE Controlled OD Pipe: ASTM F 771 and ASTM D 3035, PE 3408 compound, DRs 9 and 11.

E. PE Controlled ID Pipe: ASTM F 771 and ASTM D 2239; PE 3408 compound; SIDRs 7, 9, 11.5, and 15.

2.3 PIPE AND TUBE FITTINGS

A. Cast-Copper Fittings: ASME B16.18, solder-joint, pressure fittings.

B. Copper Unions: ASME B16.18, cast-copper-alloy body, hexagonal stock, with ball-and-socket joint, metal-to-metal seating surfaces, and solders joint, and threaded or solder-joint ends. Include threads complying with ASME B1.20.1.

C. Wrought-Copper Fittings: ASME B16.22, solder-joint, pressure fittings.

D. Cast-Bronze Flanges: ASME B16.24, Class 150, raised ground face, bolt holes spot faced.

E. PVC Socket Fittings, Schedule 80: ASTM D 2467.

F. PVC Threaded Fittings: ASTM D 2464.

G. Transition Fittings: Manufactured assembly or fitting, with pressure rating at least equal to that of system and with ends compatible to piping where fitting is to be installed.

2.4 VALVES AND VALVE SPECIALTIES

A. Cast-Iron Gate Valves: AWWA C500, cast-iron double disc, bronze disc, and seat rings or AWWA C509, resilient seated; bronze stem, cast-iron, or ductile-iron body and bonnet, stem nut, 200-psig (1380-kPa) working pressure; and ends that fit PVC pipe. Include elastomeric gaskets.

B. Cast-Iron, Nonrising-Stem Gate Valves: MSS SP-70, Type I, solid wedge; nonrising stem and flanged ends. Include all bronze trim; Class 125, ASTM A 126, cast-iron body; and hand wheel.

C. Cast-Iron, Rising-Stem Gate Valves: MSS SP-70, Type I, solid wedge; rising stem and flanged ends. Include all bronze trim; Class 125, ASTM A 126, cast-iron body; and hand wheel.

D. Bronze, Nonrising-Stem Gate Valves: MSS SP-80, Type 1, solid wedge; nonrising, copper-silicon-alloy stem; Class 125, body and screw bonnet of ASTM B 62 cast bronze, with threaded or solder-joint ends. Include PTFE-impregnated packing, brass packing gland, and malleable-iron hand wheel.

E. Bronze, Rising-Stem Gate Valves: MSS SP-80, Type 2, solid wedge; rising, copper-silicon-alloy stem; Class 125, body and screw bonnet of ASTM B 62 cast bronze, with threaded or solder-joint ends. Include PTFE-impregnated packing, brass packing gland, and malleable-iron hand wheel.

F. Plastic Valves: PVC with 150-psig (1035-kPa) minimum pressure rating, ends compatible with piping, and tee handle.

G. Bronze Diaphragm Valves: Cast-bronze body, normally closed, with manual flow adjustment, and operated by 24-V, ac solenoid.

H. Plastic Diaphragm Valves: Molded-plastic body, normally closed, with manual flow adjustment, and operated by 24-V, ac solenoid.

I. Automatic Drain Valves: Spring-loaded, ball valve of corrosion-resistant construction and designed to open for drainage if line pressure drops below 2-1/2 to 3 psig (17 to 20 kPa).

J. Quick-Couplers: Factory-fabricated, bronze or brass, two-piece assembly. Include coupler water-seal valve; removable upper body with spring-loaded or weighted, rubber-covered cap; hose swivel with ASME B1.20.7, 3/4-11.5NH threads for garden hose on outlet; and operating key.

1. Locking Top Option: Include vandal-resistant, locking feature with two matching keys.

K. Valve Boxes: Cast iron with top section and cover with lettering "WATER," bottom section with base to fit over valve, 5-inch- (127-mm-) diameter barrel, and adjustable cast-iron extension of length required for depth of bury of valve. Include steel tee-handle, shutoff rod with one pointed end, stem of length to operate valve, and end fitting valve operating nut.

L. Manual Control-Valve Service Boxes: Cast iron with telescoping top section of length required for depth of bury of valve. Include cover with lettering "WATER," bottom section with base of size to fit over valve, and 3-inch- (75-mm-) diameter barrel. Include valve key, 36 inches (915 mm) long with tee handle and key end to fit valve.

M. Control-Valve Boxes: PE, ABS, fiberglass, polymer concrete, or precast concrete box and cover, with open bottom, openings for piping, and designed for installing flush with grade. Include size as required for valves and service.

1. Drainage Backfill: Cleaned gravel or crushed stone, graded from 3 inches (75 mm) maximum to 3/4 inch (19 mm) minimum.

2.5 SPECIALTIES

A. Water Regulators: ASSE 1003, single-seated, direct-operated, water-pressure regulators, rated for 150-psig- (1035-kPa-) minimum, initial-inlet working pressure, with size, flow rate, and inlet and outlet pressures indicated. Include integral factory-installed or separate field-installed Y-pattern strainer that is compatible with unit for size and capacity.

1. 2-Inch NPS (DN50) and Smaller: Bronze body with threaded ends.
2. 2-1/2-Inch NPS (DN65) and Larger: Bronze or cast-iron body with flanged ends.
3. Interior Components: Corrosion-resistant materials.

B. Water Hammer Arresters: ASME A112.26.1M, ASSE 1010, or PDI WH-201 water hammer arrester. Include bellows or piston-type pressurized cushioning chamber and sizes complying with ASME A112.26.1M and PDI WH-201 Sizes A to F.

C. Pressure Gages: ASME B40.1 pressure gage. Include 4-1/2-inch- (115-mm-) diameter dial, dial range of two times system operating pressure, and bottom outlet.

D. Application Pressure Regulators: Brass or plastic housing, 3/4-inch NPS (DN20), with corrosion-resistant internal parts, and capable of controlling outlet pressure to approximately 20 psig (138 kPa).

E. Strainer/Filter Units: Brass or plastic housing, with corrosion-resistant internal parts, of size and capacity required for devices downstream from unit.

2.6 IDENTIFICATION

A. Solid blue film with metallic core and continuously printed black-letter caption, "CAUTION--WATER LINE BURIED BELOW."

PART 3 - EXECUTION

3.1 PREPARATION

A. Set stakes to identify proposed quick coupler locations.

3.2 BACKFILLING

A. All excavation is considered unclassified excavation and include all material encountered. Comply with the requirements of Division 31 Section "Acceptance of Backfill, Top Soil and CU Structural Soil."

B. Excavate trenches of sufficient depth and width to permit proper handling and installation of pipe and fittings.

C. Excavate to depths required to provide 2” depth of earth fill or sand bedding for piping when rock or other unsuitable bearing material is encountered.

D. Fill to match adjacent grade elevations with approved earth fill material. Place and compact fill layers not greater tan 8” depth.

1. Provide approved earth fill or sand to a point 4” above the top of pipe.
2. Fill to within 6” of final grade with approved excavated or borrow materials free of lumps or rocks larger than 3” in any dimension.
3. Provide clean topsoil fill free of rocks and debris for top 6” of fill.

E. Install irrigation lines with a minimum cover of 18” based on finished grades for piping 1-1/2” and smaller, and 30” cover for larger piping.

F. Excavate trenches and install piping and fill during the same working day. Do not leave open trenches or partially filled trenches open overnight.

G. Install warning tape directly above pressure piping, 12 inches (300 mm) below finished grades, except 6 inches (150 mm) below subgrade under pavement and slabs.

H. Install piping and wiring in sleeves under sidewalks, roadways, parking lots, and railroads.

1. Install piping sleeves by boring or jacking under existing paving if possible.

3.3 REMOVAL AND DISPOSAL

A. Comply with the requirements of Division 31 Section "Soil, Fill, Backfill, CU Structural Soil and Construction and Demolition Debris Removal."

3.4 PIPING APPLICATIONS

A. Install components having pressure rating equal to or greater than system operating pressure.

B. Piping in control-valve boxes and aboveground may be joined with flanges instead of joints indicated.

C. Aboveground and Interior Pressure Piping: Use the following:

1. 4-Inch NPS (DN100) and Smaller: Type M (Type C) hard copper tube, wrought- or cast-copper fittings, and soldered joints.
2. 4-Inch NPS (DN100) and Smaller: Type L (Type B) hard copper tube, wrought- or cast-copper fittings, and soldered joints.

D. Underground, Pressure Piping: Use the following:

1. 4-Inch NPS (DN100) and Smaller: Schedule 80 PVC pipe, Schedule 80 PVC socket fittings, and solvent-cemented joints.
2. 4-Inch NPS (DN100) and Smaller: Schedule 80 PVC pipe, PVC threaded fittings, and threaded joints.
3. 4-Inch NPS (DN100) and Smaller: SDR 21 PVC pressure-rated pipe, Schedule 80 PVC socket fittings, and solvent-cemented joints.
4. 5-Inch NPS (DN125) and Larger: Schedule 80 PVC pipe, Schedule 80 PVC socket fittings, and solvent-cemented joints.
5. 5-Inch NPS (DN125) and Larger: SDR 21 PVC pressure-rated pipe, Schedule 80 PVC socket fittings, and solvent-cemented joints.

E. Circuit Piping: Use the following:

1. 2-Inch NPS (DN50) and Smaller: Schedule 40 PVC pipe, Schedule 40 PVC socket fittings, and solvent-cemented joints.
2. 2-1/2- to 4-Inch NPS (DN65 to DN100): Schedule 40 PVC pipe, Schedule 40 PVC socket fittings, and solvent-cemented joints.

F. Underground Branches and Offsets at: Schedule 80 PVC pipe, PVC threaded fittings, and threaded joints.

G. Drain Piping: Schedule 40 PVC pipe, Schedule 40 PVC socket fittings, and solvent-cemented joints.

H. Sleeves: Schedule 80 PVC pipe, Schedule 80 PVC socket fittings, and solvent-cemented joints.

3.5 VALVE APPLICATIONS

A. Underground, Shutoff-Duty Valves: Use the following:

1. 2-Inch NPS (DN50) and Smaller: Curb stop, with tee head, curb-stop service box, and shutoff rod.
2. 3-Inch NPS (DN80) and Larger: Gate valve, with elastomeric gaskets and stem nut, valve box, and shutoff rod.

B. Control Valves: Use the following:

1. 2-Inch NPS (DN50) and Smaller: Bronze, nonrising-stem gate valve.
2. 2-1/2- and 3-Inch NPS (DN65 and DN80): Cast-iron, nonrising-stem gate valve.

C. Drain Valves: Use the following:

1. 1/2- and 3/4-Inch NPS (DN15 and DN20): Plastic drain valve.
2. 1- to 2-Inch NPS (DN25 to DN50): Bronze, nonrising-stem gate valve.

3.6 JOINT CONSTRUCTION

A. PVC Piping Gasketed Joints: Construct underground joints between cast-iron valves and PVC pipe with elastomeric seals that fit pipe and valve ends. Use lubricant according to ASTM D 3139.

B. Dissimilar Piping Material Joints: Construct joints using adapters or couplings that are compatible with both piping materials, outside diameters, and system working pressure.

3.7 PIPING INSTALLATION

A. Locations and Arrangements: Drawings indicate location and arrangement of piping systems, which were used to size pipe and calculate friction loss, and other design considerations. Install piping as indicated, unless deviations are approved on Coordination Drawings.

B. Install piping at uniform slope of 0.5 percent minimum, down toward drain valves.

C. Install piping free of sags and bends.

D. Install groups of pipes parallel to each other, spaced to permit valve servicing.

E. Install fittings for changes in direction and branch connections.

F. Install unions adjacent to valves and final connections to other components with 2-inch NPS (DN50) or smaller pipe connection.

G. Install flanges adjacent to valves and final connections to other components with 2-1/2-inch NPS (DN65) or larger pipe connection.

H. Install dielectric fittings to connect piping of dissimilar metals.

I. Install underground thermoplastic piping according to ASTM D 2774 and ASTM F 690.

J. Lay piping on solid subbase, uniformly sloped without humps or depressions.

K. Install PVC piping in dry weather when temperature is above 40 deg F (4.4 deg C). Allow joints to cure at least 24 hours at temperature above 40 deg F (4.4 deg C) before testing, unless otherwise recommended by manufacturer.

L. Install water regulators with shutoff valve and strainer on inlet and pressure gage on outlet. Install shutoff valve on outlet.

M. Water Hammer Arresters: Install between connection to building main and circuit valves in valve box.

3.8 VALVE INSTALLATION

A. Underground Gate Valves: Install in valve box with top flush with grade.

1. Install valves and PVC pipe with restrained, gasketed joints.

B. Underground Curb Stops: Install in service box with top flush with grade.

C. Underground, Manual Control Valves: Install in manual, control-valve service box.

D. Control Valves: Install in control-valve service box.

E. Drain Valves: Install in control-valve box.

3.9 CONNECTIONS

A. Connect piping to valves and specialties.

B. Connect water supplies to piping with backflow preventers at connections to potable-water supplies.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.

D. Ground electric-powered controllers, valves, and devices.

1. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A and UL 486B.

E. Arrange for electric-power connections to controllers, control valves, and devices that require power. Electric power, wiring, and disconnect switches are specified in Division 26 Sections.

3.10 FIELD QUALITY CONTROL

A. Testing: Hydrostatically test piping and valves before backfilling trenches. Piping may be tested in sections.

1. Cap and test piping with static water pressure of 50 psig (345 kPa) above system operating pressure and without exceeding pressure rating of piping system materials. Isolate test source and allow to stand for four hours.

2. Repair leaks and defects with new materials and retest system or portion thereof until satisfactory results are obtained.

3.11 CLEANING AND ADJUSTING

A. Flush dirt and debris from piping before installing quick couplers and other devices.

3.12 COMMISSIONING

A. Starting Procedures: Follow manufacturer's written procedures. If no procedures are prescribed by manufacturers, proceed as follows:

1. Verify that quick couplers are installed and operate correctly.
2. Verify that specified tests of piping are complete.
3. Verify that potable-water supply connections have backflow preventers.
4. Energize circuits to electrical equipment and devices.

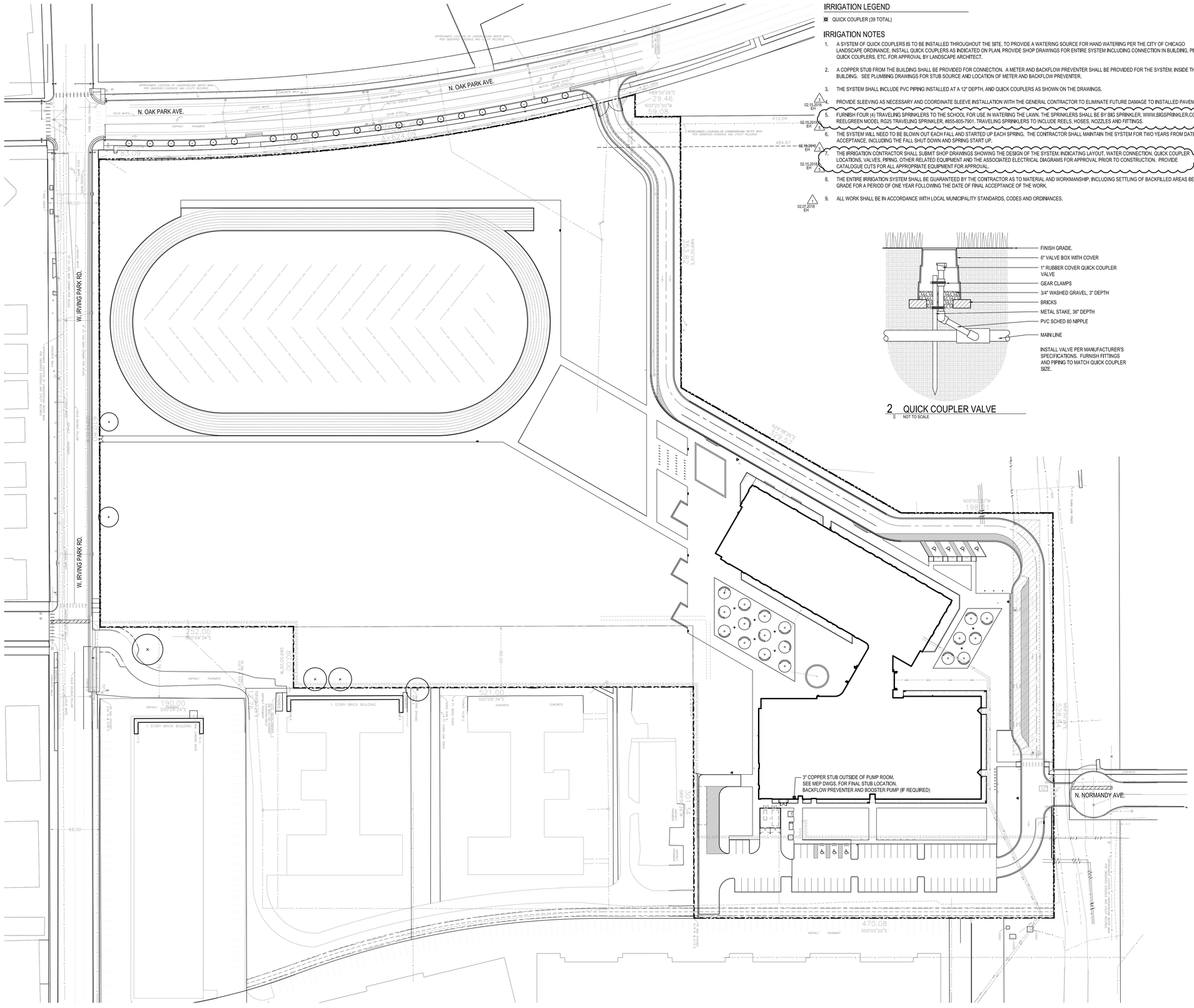
B. Operational Tests: Measure and record water flow rate at each quick coupler. Adjust to achieve indicated values.

3.13 DEMONSTRATION

A. Demonstrate to Owner's maintenance personnel operation of equipment, quick couplers, traveling sprinklers, specialties, and accessories. Review maintenance information.

B. Provide seven days' advance written notice of demonstration.

END OF SECTION



IRRIGATION LEGEND

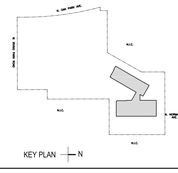
QUICK COUPLER (39 TOTAL)

IRRIGATION NOTES

1. A SYSTEM OF QUICK COUPLERS IS TO BE INSTALLED THROUGHOUT THE SITE, TO PROVIDE A WATERING SOURCE FOR HAND WATERING PER THE CITY OF CHICAGO LANDSCAPE ORDINANCE. INSTALL QUICK COUPLERS AS INDICATED ON PLAN. PROVIDE SHOP DRAWINGS FOR ENTIRE SYSTEM INCLUDING CONNECTION IN BUILDING, PIPING, QUICK COUPLERS, ETC. FOR APPROVAL BY LANDSCAPE ARCHITECT.
2. A COPPER STUB FROM THE BUILDING SHALL BE PROVIDED FOR CONNECTION. A METER AND BACKFLOW PREVENTER SHALL BE PROVIDED FOR THE SYSTEM, INSIDE THE BUILDING. SEE PLUMBING DRAWINGS FOR STUB SOURCE AND LOCATION OF METER AND BACKFLOW PREVENTER.
3. THE SYSTEM SHALL INCLUDE PVC PIPING INSTALLED AT A 12" DEPTH, AND QUICK COUPLERS AS SHOWN ON THE DRAWINGS.
4. PROVIDE SLEEVING AS NECESSARY AND COORDINATE SLEEVE INSTALLATION WITH THE GENERAL CONTRACTOR TO ELIMINATE FUTURE DAMAGE TO INSTALLED PAVEMENT. (4 02.15.2018 EH)
5. FURNISH FOUR (4) TRAVELING SPRINKLERS TO THE SCHOOL FOR USE IN WATERING THE LAWN. THE SPRINKLERS SHALL BE BY BIG SPRINKLER, WWW.BIGSPRINKLER.COM, REELGREEN MODEL RG25 TRAVELING SPRINKLER, #855-805-7901. TRAVELING SPRINKLERS TO INCLUDE REELS, HOSES, NOZZLES AND FITTINGS. (5 02.15.2018 EH)
6. THE SYSTEM WILL NEED TO BE BLOWN OUT EACH FALL AND STARTED UP EACH SPRING. THE CONTRACTOR SHALL MAINTAIN THE SYSTEM FOR TWO YEARS FROM DATE OF ACCEPTANCE, INCLUDING THE FALL SHUT DOWN AND SPRING START UP.
7. THE IRRIGATION CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SHOWING THE DESIGN OF THE SYSTEM, INDICATING LAYOUT, WATER CONNECTION, QUICK COUPLER LOCATIONS, VALVES, PIPING, OTHER RELATED EQUIPMENT AND THE ASSOCIATED ELECTRICAL DIAGRAMS FOR APPROVAL PRIOR TO CONSTRUCTION. PROVIDE CATALOGUE CUTS FOR ALL APPROPRIATE EQUIPMENT FOR APPROVAL. (7 02.15.2018 EH)
8. THE ENTIRE IRRIGATION SYSTEM SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORKMANSHIP, INCLUDING SETTLING OF BACKFILLED AREAS BELOW GRADE FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK.
9. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPALITY STANDARDS, CODES AND ORDINANCES. (1 02.07.2018 EH)

2 QUICK COUPLER VALVE
NOT TO SCALE

Scale: 1 inch = 50 ft.



KEY PLAN

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
STL ARCHITECTS

STLARCHITECTS

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IMEG
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ARUP NORTH AMERICA LTD.
35 E Upper Wacker Dr #1800,
Chicago, IL 60601
Acoustics Consultant

SCHULER SHOOK
750 N Orleans St # 400, Chicago, IL 60654
Theatre Consultant

EDGE ASSOCIATES INC.
220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

Issuance

Mark	Description	Date
5	ADDENDUM #4	03/02/2018
4	ADDENDUM #3	02/28/2018
3	ADDENDUM #2	02/21/2018
2	ADD #1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
IRRIGATION PLAN

Sheet
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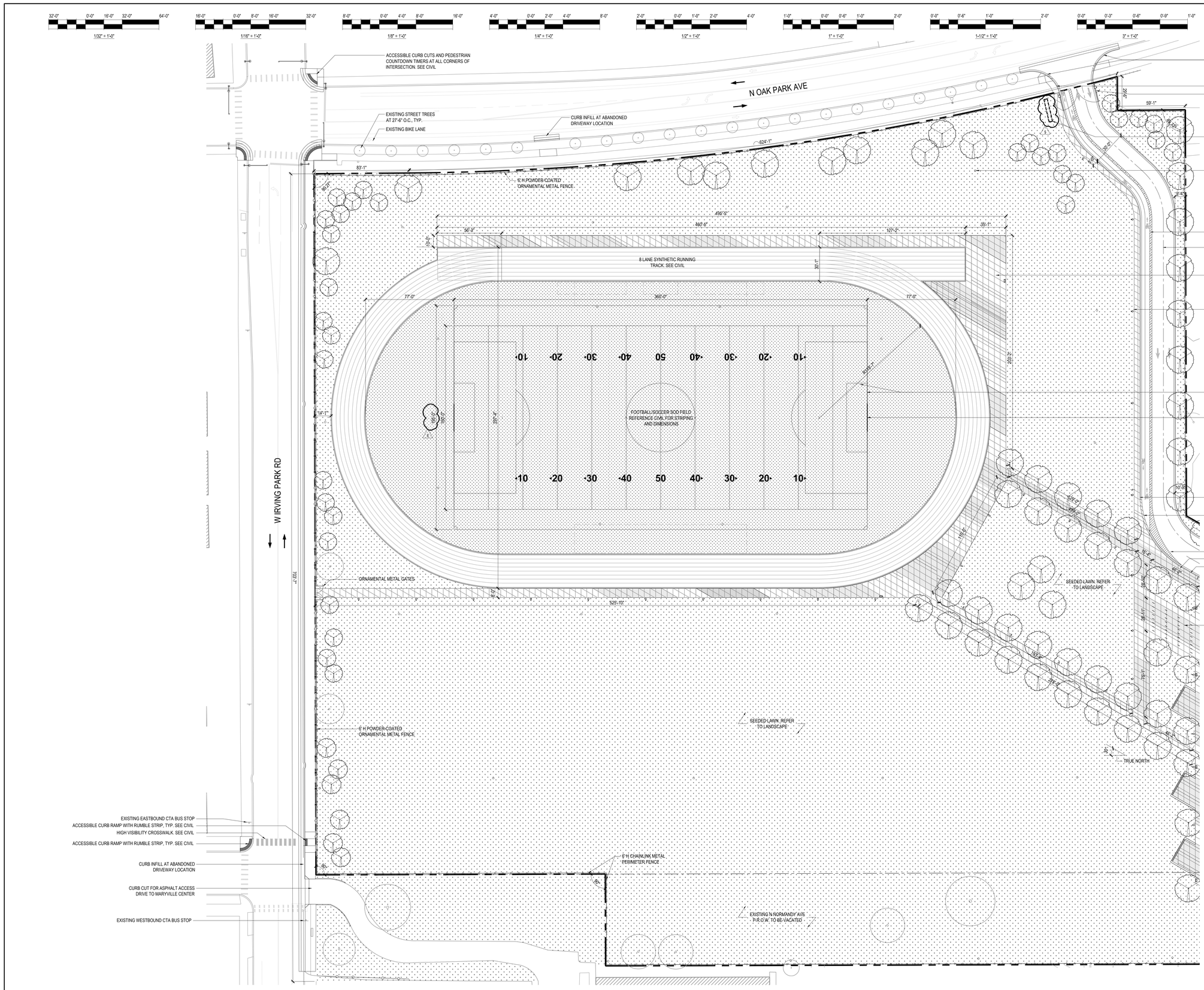


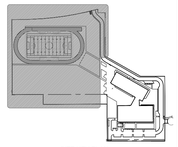
1 PARTIAL SITE PLAN AREA A
1/32" = 1'-0"

LEGEND

- PROPERTY LINE
- EXISTING TO REMAIN
- NEW WORK
- EXISTING TREE TO REMAIN
- SCORED CONCRETE PAVING, TWO COLORS
- SEEDED LAWN
- ATHLETIC FIELD SOD
- NEW TREE
- LAWN HYDRANT
- TRAFFIC/PARKING SIGN
- POLE-MOUNTED SITE LIGHT
- FIRE HYDRANT
- TRASH RECEPTACLE

GENERAL NOTES

1. EXISTING CONDITIONS INFORMATION BASED ON A SURVEY PROVIDED BY EDWARD J MOLLOY AND ASSOCIATES LTD DATED SEPTEMBER 13, 2017.
2. COORDINATE WITH ENVIRONMENTAL, GEOTECHNICAL/SOILS, AND OTHER OWNER-PROVIDED SUB-SURFACE INVESTIGATIONS.
3. REFER TO LANDSCAPE PLAN FOR TREE LOCATIONS AND QUANTITIES



SITE KEY PLAN

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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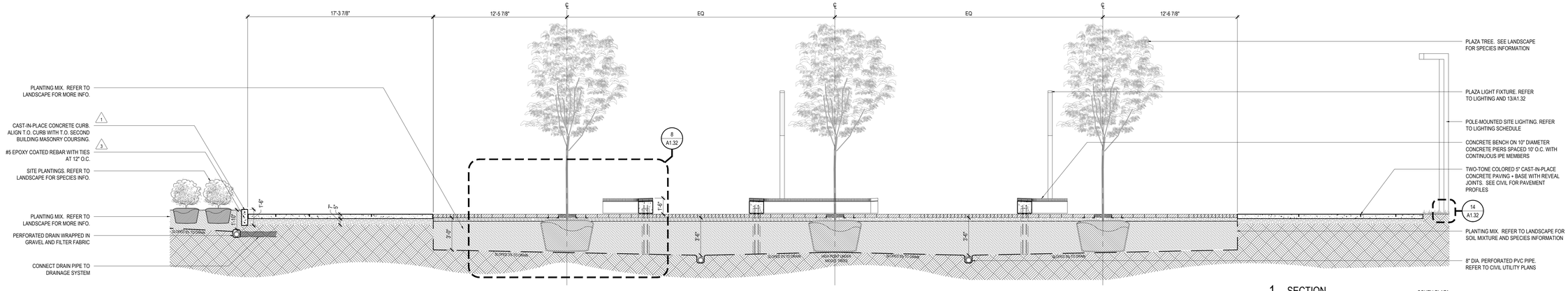
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

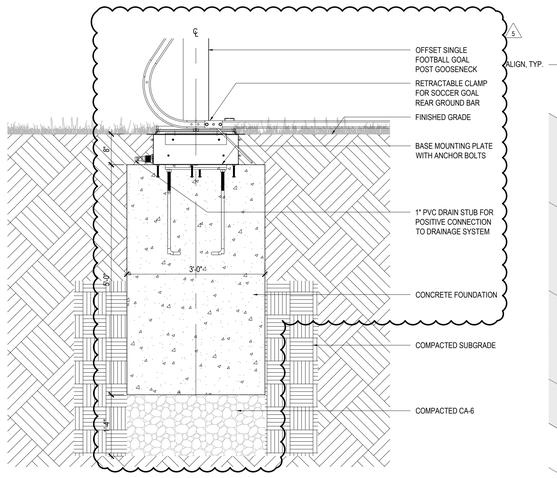
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No.: 05165
Project No.: N/A
Title

PARTIAL SITE PLAN A

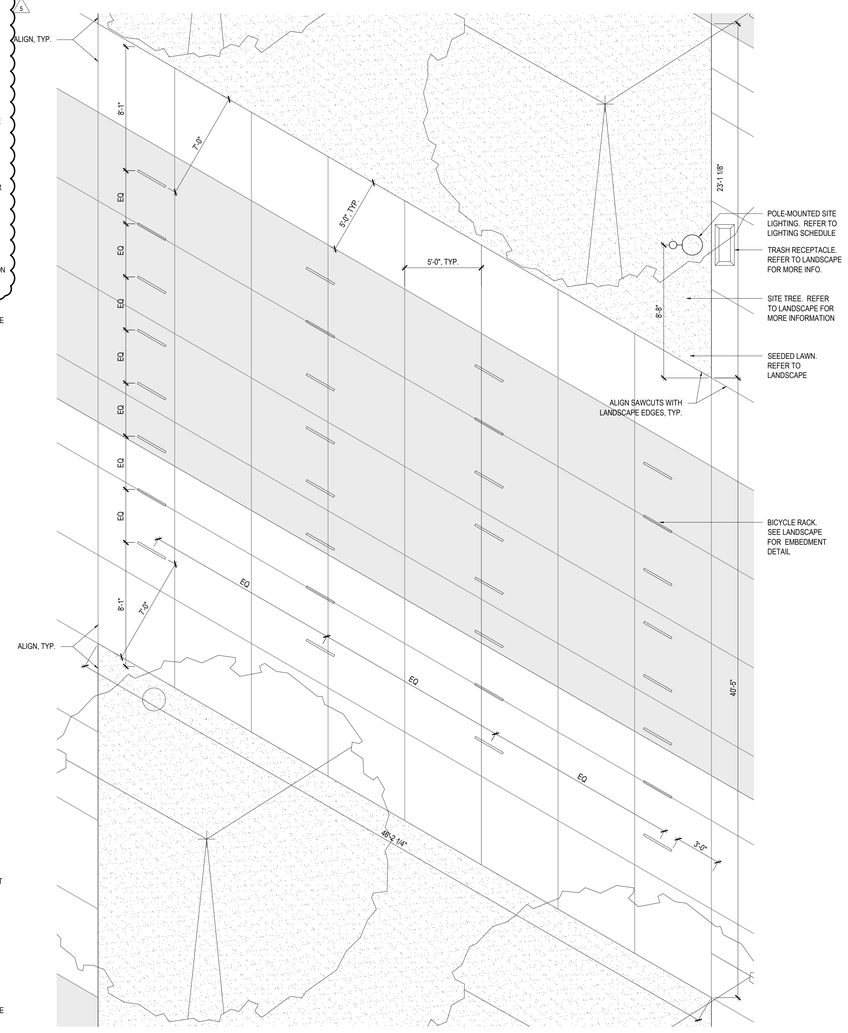
Sheet
A1.11



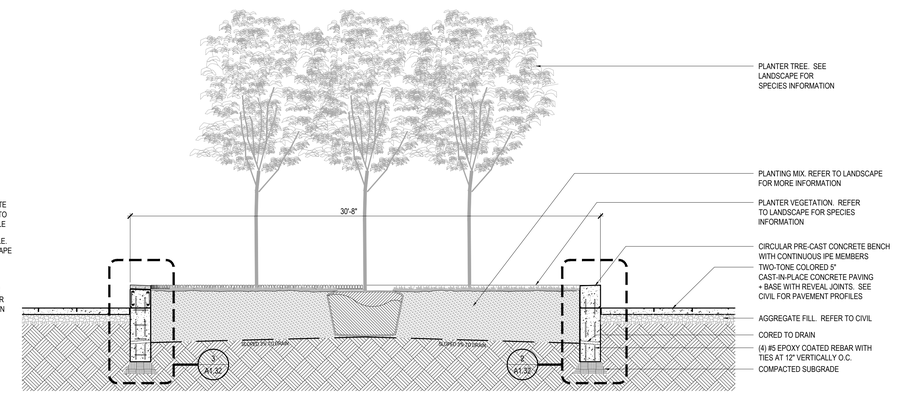
1 SECTION 1/4" = 1'-0" SOUTH PLAZA



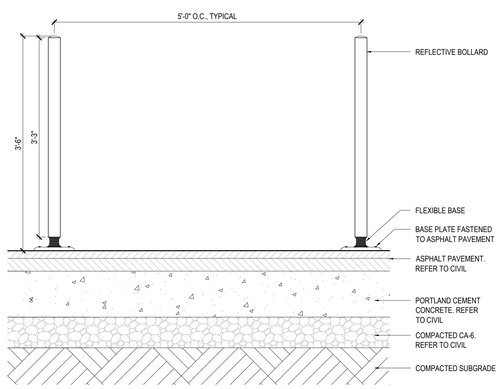
5 DETAIL 3/4" = 1'-0" FOOTBALL / SOCCER GOAL BASE DETAIL



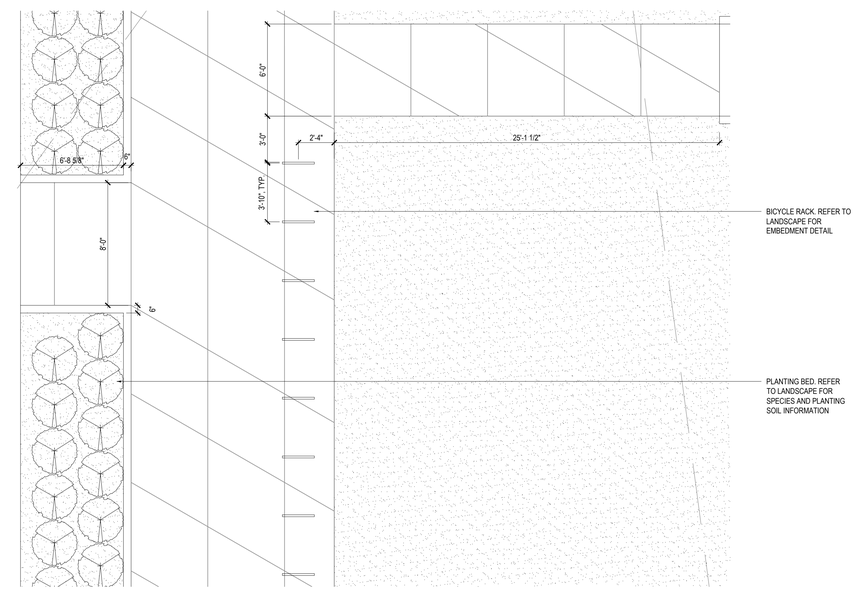
4 ENLARGED PLAN 1/4" = 1'-0" SOUTHWEST BICYCLE RACKS



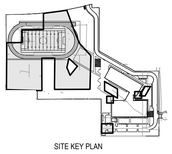
2 SECTION 1/4" = 1'-0" CIRCULAR BENCH/PLANTER



6 DETAIL 1" = 1'-0" FLEXIBLE TRAFFIC BOLLARD



3 ENLARGED PLAN 1/4" = 1'-0" NORTHEAST BICYCLE RACKS



SITE KEY PLAN

PUBLIC BUILDING COMMISSION — Chicago Public Schools

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
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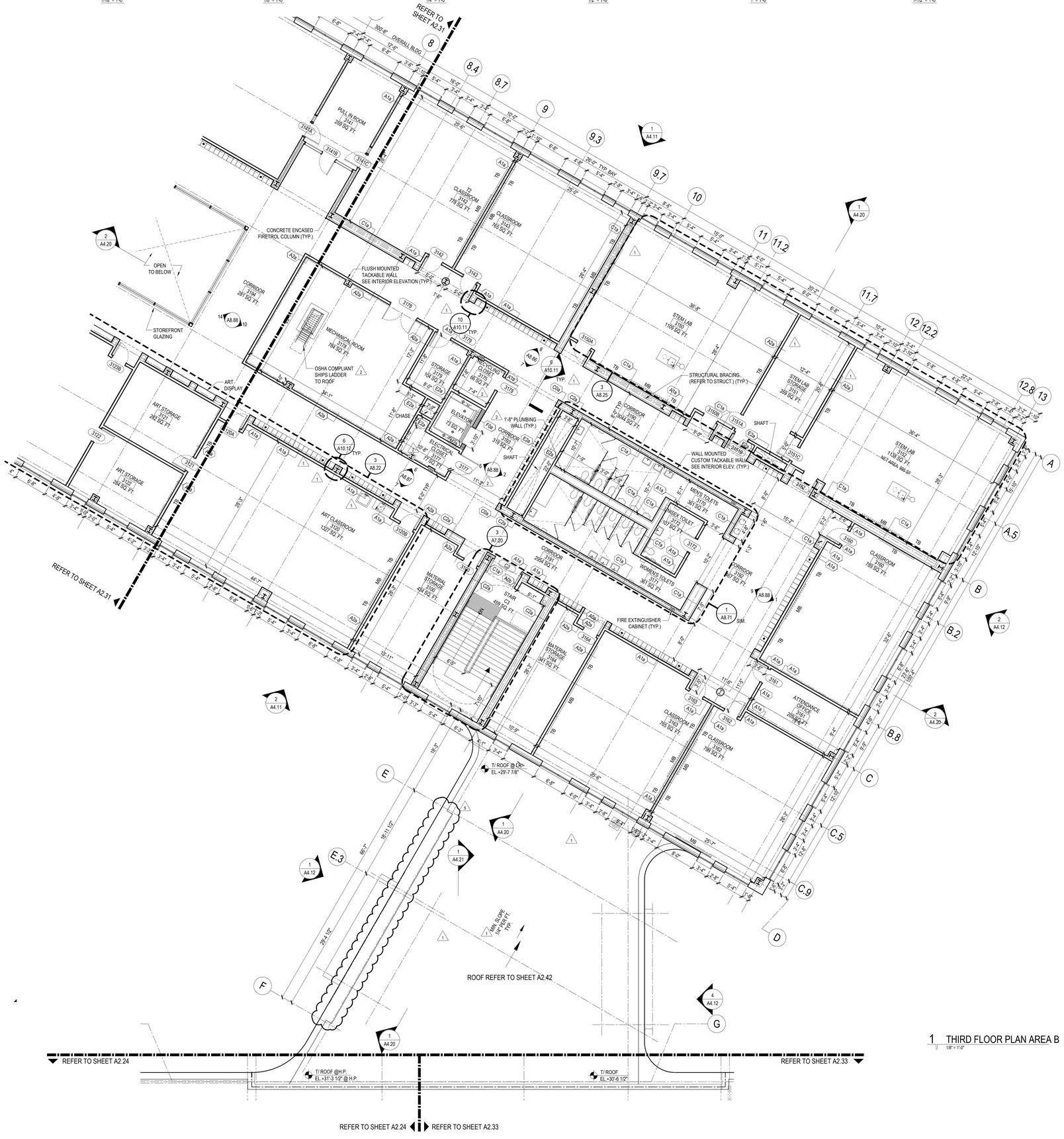
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A
Title

ENLARGED SITE PLANS AND SECTIONS

Sheet
A1.30



1 THIRD FLOOR PLAN AREA B
1/8" = 1'-0"

GENERAL NOTES

1. THIS PROJECT IS DESIGNED TO ACHIEVE A LEED CERTIFIED DESIGNATION. REFER TO SPECIFICATIONS AND LEED CHART FOR SPECIFIC CREDITS THAT WILL BE REQUIRED TO BE ACHIEVED.
2. REFER TO SHEETS G1.10 THROUGH G1.30 FOR REQUIRED FIRE RATINGS AT PARTITIONS. HORIZONTAL FIRE-RATED SHAFTWALL CONSTRUCTION SHALL BE PROVIDED AT THE BOTTOM OF ALL SHAFTS.
3. REFER TO SHEET A1 SERIES FOR SITE INFORMATION.
4. REFER TO SHEET A9.10 FOR PARTITIONS TYPES INDICATED THUS: (A0a)
5. REFER TO STRUCTURAL DRAWINGS FOR REINFORCEMENT, DOWELS AND HEAD ANCHORS FOR MASONRY PARTITIONS
6. ALL DOORS IN FIRE-RATED PARTITIONS TO BE UL LABELED AS REQUIRED FOR WALL RATING. REFER TO SHEETS G1.10 THROUGH G1.30 FOR REQUIRED FIRE RATINGS AT PARTITIONS.
7. REFER TO SHEET A12 SERIES FOR DOOR SCHEDULE FOR DOORS TAGGED THUS: (XXX)
8. REFER TO A13 SERIES DRAWINGS FOR FINISH SCHEDULE AND FINISH PLANS.
9. REFER TO FURNITURE PLANS FOR PROPOSED FURNITURE LAYOUT. FURNITURE IS NOT IN CONTRACT AND PLANS ARE PROVIDED FOR INFORMATION ONLY. OWNER SHALL PROVIDE 5% MINIMUM ACCESSIBLE SEATING.
10. REFER TO CODE MATRIX FOR REQUIRED HOURS OF FIRE RESISTANCE OF BUILDING ELEMENTS. PROVIDE ASSEMBLIES HAVING UL RATINGS MEETING OR EXCEEDING INDICATED REQUIREMENTS.
11. DIMENSIONS GIVEN FOR ROOM LAYOUT ARE TO FACE OF DRYWALL PARTITIONS UNLESS NOTED OTHERWISE.
12. ALL PARTITIONS ABUTTING EXTERIOR MULLIONS SHALL BE CENTERED ON THE MULLION UNLESS NOTED OTHERWISE.
13. PROVIDE MIN. 16 GA GALVANIZED STEEL SHEET METAL BLOCKING IN PARTITIONS AT ALL WALL-MOUNTED ITEMS.
14. FIRETROL COLUMNS TO BE UL LISTED FOR 3HR RATING. REFER TO CODE MATRIX.
15. ALL DIMENSIONS INDICATED ARE TO BE HELD UNLESS NOTED OTHERWISE. NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH LAYOUT.
16. ELEVATION 0'-0" = 58.38 CCD

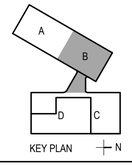
LEGEND

- LOCKER 12"x15"x36" 2-TIER
- STAFF/TEACHER/COACH LOCKER 12"x15"x72" 1-TIER
- ADA LOCKER
- MB — MARKER BOARD 12'x4' U.N.O.
- TB — TACK BOARD 4'x4' U.N.O.
- MATCH LINE
- FIRE EXTINGUISHER CABINET
- GL-X — GLAZING TYPE:
  1. GL-1: LOW E--COATED, CLEAR INSULATING GLASS AT EXT. WINDOWS & WINDOW WALLS
  2. GL-2: LOW-E-COATED, CLEAR INSULATING GLASS WITH CERAMIC FRIT PATTERN
  3. GL-3: CERAMIC FIRE-PROTECTIVE RATED SAFETY CLASS (FR-45 MINS)
  4. GL-4: KIND FT (FULLY TEMPERED), CLEAR GLASS
  5. GL-5: ACOUSTIC, FIRE-PROTECTIVE RATED INSULATED GLASS UNIT (FR-60 MINS)
  6. GL-6: FIRE-RESISTIVE RATED SAFETY GLASS UNIT (FR-60 MINS)
  7. GL-7: ACOUSTIC, FIRE RESISTIVE INSULATED GLASS UNIT(FR-60 MINS)

ACADEMIC WING LOCKER COUNT

TOTAL LOCKERS THIRD FLOOR: 515
- DOUBLE TIER LOCKERS: 490
- ACCESIBLE LOCKERS: 25

TOTAL LOCKERS ON ACADEMIC WING: 1360



KEY PLAN

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

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464 N Milwaukee Ave, Chicago, IL 60654
Structural Engineers of Record

DANIEL WEINBACH & PARTNERS
53 Jackson Blvd #250, Chicago, IL 60604
Landscape Architects of Record

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Acoustics Consultant

SCHULER SHOOK
750 N Orleans St # 400, Chicago, IL 60654
Theatre Consultant

EDGE ASSOCIATES INC.
220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

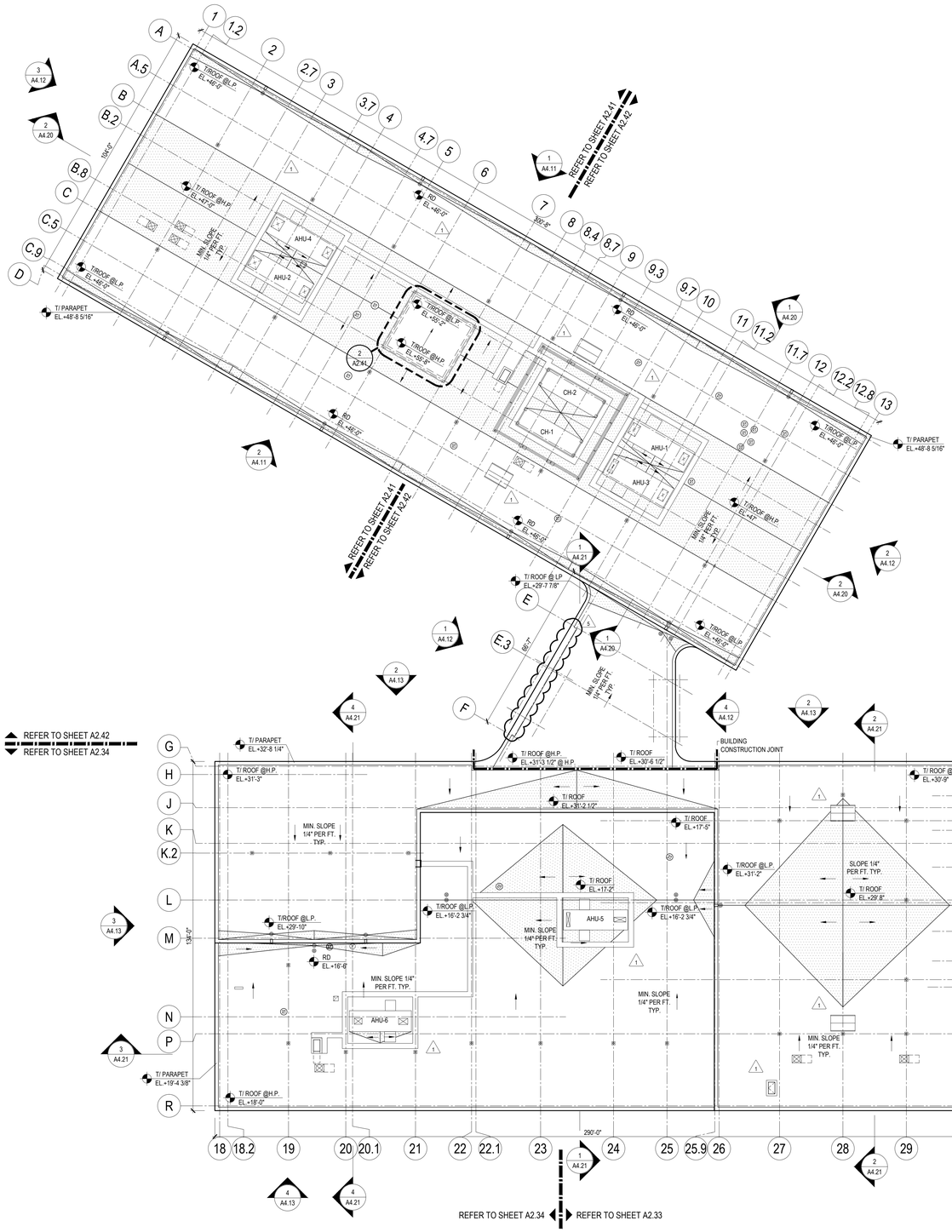
Issuance

Mark	Description	Date
5	ADDENDUM #4	03/02/2018
3	ADDENDUM #2	02/21/2018
2	ADD#1 & PERMIT REV	02/07/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title: THIRD FLOOR PLAN ACADEMIC WING AREA B

Sheet: A2.32



1 ROOF KEY PLAN

1" = 20'-0"

GENERAL NOTES - ROOF

1. THIS PROJECT IS DESIGNED TO ACHIEVE A LEED CERTIFIED RATING. REFER TO THE LEED WORKSHEET FOR SPECIFIC LEED CREDITS TO BE ACHIEVED.
2. ALL ROOFING TO BE MODIFIED BITUMINOUS
3. ROOF INSULATION TO PROVIDE MINIMUM R-VALUE OF 30
4. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL ROOF AREAS SHALL SLOPE TO DRAIN AT A MINIMUM SLOPE OF 1/4" PER FOOT. PROVIDE TAPERED INSULATION AS REQUIRED.
5. ALL TERMINATIONS AND PENETRATIONS SHALL BE FLASHED TO A MINIMUM HEIGHT OF 1'-2" ABOVE THE ADJOINING ROOF SURFACE. COORDINATE FINAL INSULATION LAYOUT WITH LOCATIONS OF EQUIPMENT, PARAPETS AND PENETRATING ITEMS AND AND PROVIDE CURBS OF APPROPRIATE HEIGHTS TO MEET THIS REQUIREMENT.
6. ALL DETAILS SHALL BE AS INDICATED AND IN ACCORDANCE WITH MANUFACTURER'S MINIMUM STANDARDS.
7. FOAM PLASTIC INSULATION SHALL COMPLY WITH CHICAGO BUILDING CODE (15-12-350). PROVIDE MINIMUM 15 MINUTE THERMAL BARRIER BETWEEN BUILDING INTERIOR AND FOAM PLASTIC INSULATION AS REQUIRED BY CHICAGO CODE.
8. ROOF SYSTEM TO BE CLASS A

LEGEND

- OVERFLOW SCUPPER
- ROOF DRAIN
- EXHAUST FAN - SEE MEP DWGS.
- FALL ARREST ANCHOR SAFETY TIE
- ROOF ACCESS HATCH
- MECHANICAL EQUIPMENT, SEE MECH. PROVIDE CURB AND/OR OPENING AS REQUIRED
- AREA OF APPLIED WALKWAY PADS
- AREA OF TAPERED INSULATION

READ DUNNING SCHOOL

4071 N. OAK PARK AVENUE
CHICAGO, IL 60634

CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
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PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
ROOF PLAN OVERALL

Sheet
A2.40

KEY PLAN

1 ROOF PLAN AREA B
1/8" = 1'-0"

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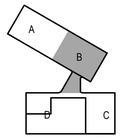

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PBC Project Name: READ DUNNING SCHOOL
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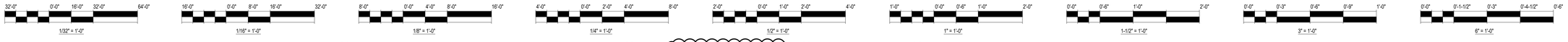
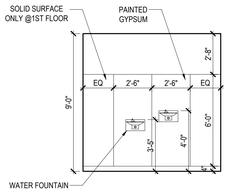
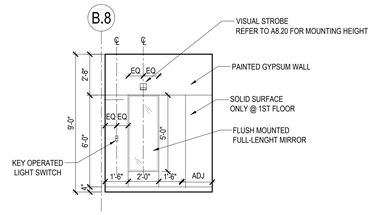
Title
ROOF PLAN
ACADEMIC WING
AREA B

Sheet
A2.42

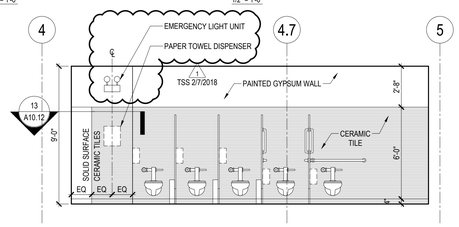




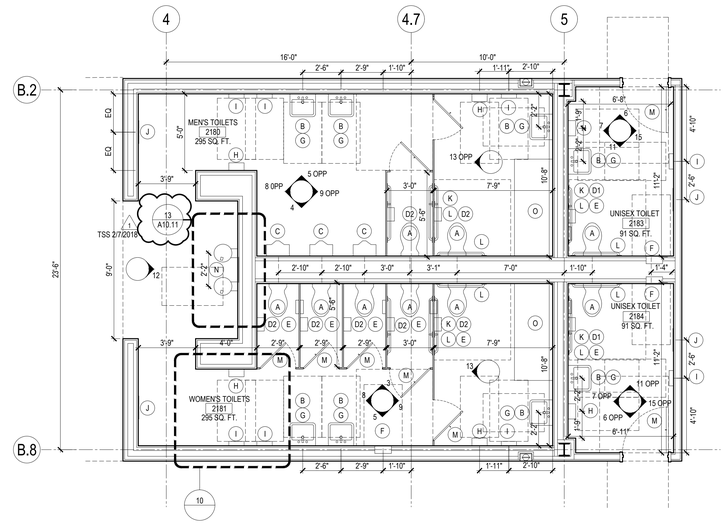
12 NORTH ELEVATION DRINKING FOUNTAINS
1/4" = 1'-0"



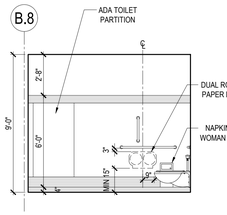
8 SOUTH ELEVATION WOMEN'S TOILET 2181
1/4" = 1'-0"



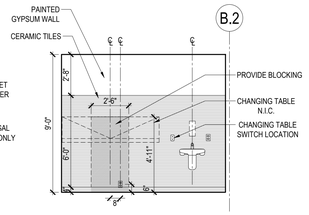
3 WEST ELEVATION WOMEN'S TOILET 2181
1/4" = 1'-0"



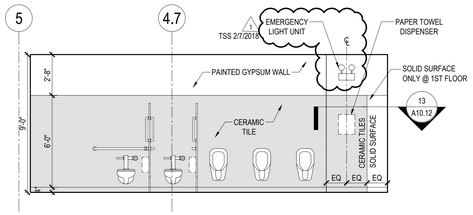
1 ENLARGED PLAN 2180,2181,2183,2184 TYP @ TOILETS
1/4" = 1'-0"



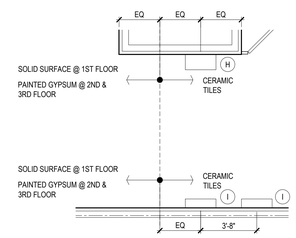
13 SOUTH ELEVATION WOMEN'S TOILET 2181 SIM. MEN'S TOILET 2180
1/4" = 1'-0"



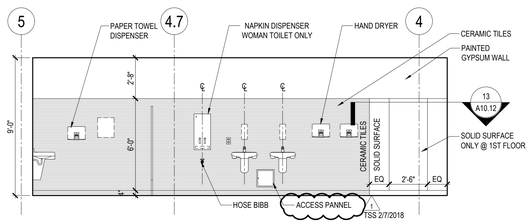
9 NORTH ELEVATION WOMEN'S TOILET 2181
1/4" = 1'-0"



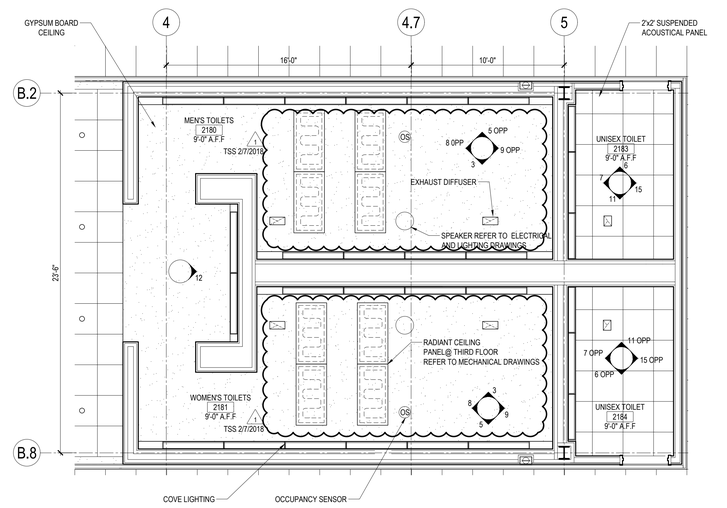
4 EAST ELEVATION MEN'S TOILET 2180
1/4" = 1'-0"



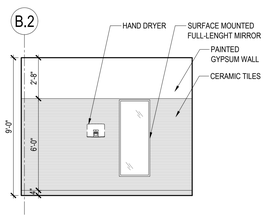
10 ENLARGED PLAN WOMEN'S TOILET 2181 SIM. MEN'S TOILET 2180
1/2" = 1'-0"



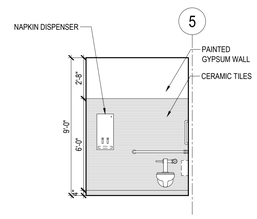
5 EAST ELEVATION WOMEN'S TOILET 2181 SIM. MEN'S TOILET 2180
1/4" = 1'-0"



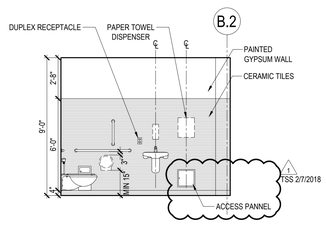
2 ENLARGED RCP 2180,2181,2183,2184 TYP @ TOILETS
1/4" = 1'-0"



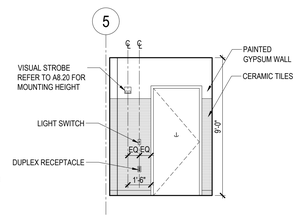
15 NORTH ELEVATION UNISEX TOILET 2183
1/4" = 1'-0"



11 EAST ELEVATION UNISEX TOILET 2183
1/4" = 1'-0"

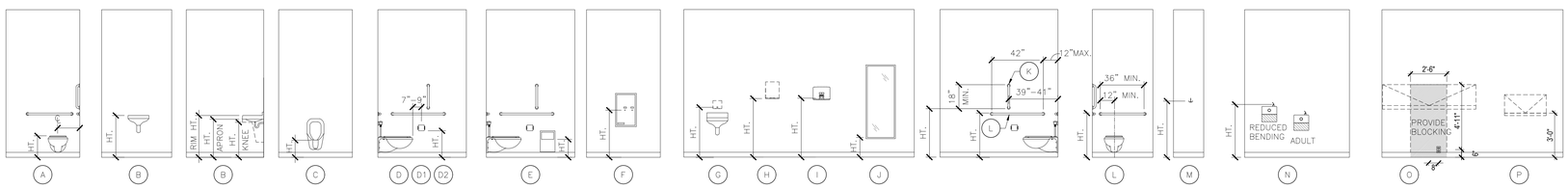


7 SOUTH ELEVATION UNISEX TOILET 2183
1/4" = 1'-0"



6 WEST ELEVATION UNISEX TOILET 2183
1/4" = 1'-0"

EQUIPMENT SCHEDULE AND MOUNTING HEIGHTS



TOILET ACCESSORIES SCHEDULE & STANDARD MOUNTING HEIGHTS

(A) WATER CLOSET
ADULT ADA — HEIGHT: 18" A.F.F. TO TOP OF SEAT
CENTERLINE: 18" (THIS IS A FIXED DIMENSION THAT DOES NOT ALLOW FOR CONSTRUCTION TOLERANCE)
STANDARD — HEIGHT: 15" A.F.F. TO TOP OF SEAT

(B) LAVATORY
ADULT ADA — HEIGHT: 34" A.F.F. MAX. RIM HEIGHT
KNEE SPACE: 27" A.F.F. MIN.
BOTTOM OF APRON: 29" A.F.F. MIN.
STANDARD ADULT — HEIGHT: 34" A.F.F. RIM HEIGHT

(C) URINAL
ADULT ADA — HEIGHT: 17" A.F.F. MAX. TO RIM
STANDARD — HEIGHT: 24" A.F.F. MAX. TO RIM

* (D) TOILET PAPER DISPENSER
ADULT ADA — HEIGHT: 47" A.F.F. MAX. TO OUTLET OF THE DISPENSER
STANDARD — HEIGHT: 32" A.F.F. MAX. TO OUTLET OF THE DISPENSER

(E) SANITARY NAPKIN DISPOSAL
18" A.F.F. TO THE OPENING (RECOMMENDED DIMENSION)
15" A.F.F. MIN. ALLOWABLE DIMENSION

(F) SANITARY NAPKIN DISPENSER
44" A.F.F. TO THE HIGHEST OPERABLE PART (RECOMMENDED DIMENSION)
48" A.F.F. MAX. ALLOWABLE DIMENSION

* (G) SOAP DISPENSER (OVER SINK)
ADULT ADA — HEIGHT: 44" A.F.F. TO HIGHEST OPERABLE PART (RECOMMENDED DIMENSION)
48" MAX. ALLOWABLE DIMENSION

* (H) PAPER TOWEL DISPENSER
ADULT ADA — HEIGHT: 47" A.F.F. TO HIGHEST OPERABLE PART (RECOMMENDED DIMENSION)
48" MAX. ALLOWABLE DIMENSION
STANDARD — HEIGHT: 46" A.F.F. TO THE BOTTOM

(I) HAND DRYER
ADULT ADA — HEIGHT: 47" A.F.F. TO HIGHEST OPERABLE PART (RECOMMENDED)
48" MAX. ALLOWABLE DIMENSION
STANDARD — HEIGHT: BOTTOM AT 40" A.F.F.

(J) FULL-LENGTH MIRRORS
(ADA) ALL AGES — 15" A.F.F. TO BOTTOM OF REFLECTIVE SURFACE (RECOMMENDED DIMENSION)
35" MAX. ALLOWABLE DIMENSION
STANDARD ABOVE LAVATORY: BOTTOM OF MIRROR AT SINK 1" ABOVE BACKSPLASH OR NO LESS THAN 5" ABOVE LAVATORY SURFACE

(K) VERTICAL GRAB BAR
ADULT: HEIGHT: 40" A.F.F. TO BOTTOM OF BAR (RECOMMENDED DIMENSION)
39"–41" ALLOWABLE DIMENSION

(L) SIDE WALL/REAR WALL GRAB BAR
ADULT: HEIGHT: 35" A.F.F. TO TOP OF BAR (RECOMMENDED DIMENSION)
33"–36" ALLOWABLE DIMENSION

(M) COAT HOOKS
ADULT: HEIGHT: 47" A.F.F. TO TOP (RECOMMENDED DIMENSION)
48" MAX. ALLOWABLE DIMENSION

(N) DRINKING FOUNTAINS
ADULT ADA — HEIGHT: 36" A.F.F. MAX. TO SPOUT
REDUCED BENDING — HEIGHT: 42" A.F.F. TO SPOUT (RECOMMENDED DIMENSION)
38" A.F.F. MIN – 43" A.F.F. ALLOWABLE DIMENSION

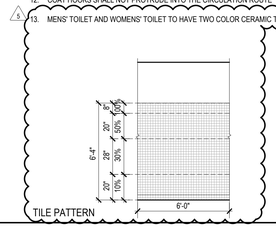
** (O) CHANGING TABLE
G.C. TO PROVIDE BLOCKING AND POWER CONNECTION

** (P) BABY CHANGING TABLE
G.C. TO PROVIDE BLOCKING

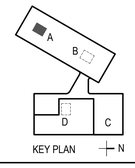
* PROVIDED BY OWNER AND INSTALLED BY GC
** PROVIDED AND INSTALLED BY OWNER

GENERAL NOTES

1. ALL TOILET ROOMS SHALL COMPLY WITH APPLICABLE PROVISIONS OF THE CHICAGO BUILDING CODE CHAPTER 18-11, THE ILLINOIS ACCESSIBILITY CODE AND ANSI 117.1.
2. MOUNTING HEIGHTS ARE MODIFIED TO COMPLY WITH ADULT'S STANDARDS, CONFIRM AGE RANGE USE FOR EACH BATHROOM PRIOR TO ROUGHING IN FIXTURES.
3. CONTRACTOR TO COORDINATE AND CONFIRM ALL REQUIRED MOUNTING HEIGHTS AND LOCATIONS AT ALL GRAB BARS, FIXTURES, AND RECEPTACLES PRIOR TO THE INSTALLATION OF ALL PLUMBING FIXTURES AND PIPING
4. ALL EXPOSED PIPES UNDER SINKS TO BE INSULATED. OFFSET AS REQUIRED FOR ACCESSIBLE KNEE SPACE.
5. SEE MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
6. FLOORS SHALL SLOPE TO DRAINS AT LEAST ONE INCH PER 10 FT (MAX. ONE INCH PER FOOT)
7. WHEN A DIMENSION ON A DRAWING IS GIVEN, THE CONSTRUCTION TOLERANCE ALLOWED IS + ¼" TO - ½" OF THE DIMENSION ON THE DRAWING U.N.O.
8. WHEN A RANGE IS GIVEN FOR A DIMENSION ON A DRAWING, THERE IS NO CONSTRUCTION TOLERANCE ALLOWED. THE ITEM MUST BE INSTALLED IN THE RANGE INDICATED.
9. FLUSH VALVE CONTROLS FOR WC TO BE LOCATED ON WIDE SIDE IN ACCESSIBLE STALLS.
10. PROVIDE CONTINUOUS SHEET METAL REINFORCEMENT AND OTHER WALL MOUNTED ITEMS IN WALL AREAS FOR ALL GRAB BARS.
11. HAND DRYERS THAT PROTRUDE MORE THAN 4" INTO THE ACCESSIBLE PATH OF TRAVEL SHALL BE REQUIRED TO HAVE CANE DETECTION AT 27" AF.F. OR MUST BE LOCATED OUTSIDE THE CIRCULATION ROUTE.
12. COAT HOOKS SHALL NOT PROTRUDE INTO THE CIRCULATION ROUTE.
13. MENS' TOILET AND WOMENS' TOILET TO HAVE TWO COLOR CERAMIC TILE PATTERN. PATTERN REFER TO TILE PATTERN.



TILE PATTERN



KEY PLAN

READ DUNNING SCHOOL

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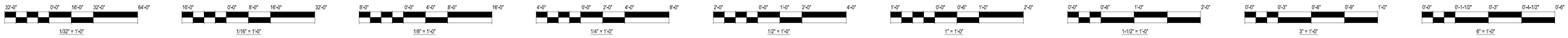
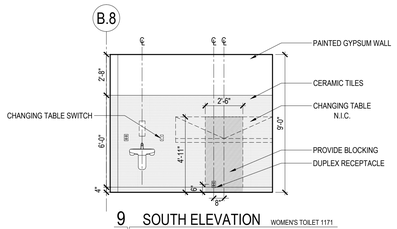
Project No.: N/A

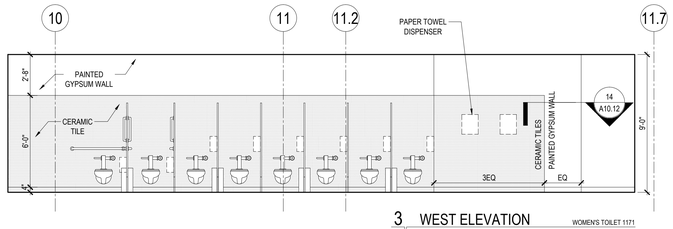
Title
ENLARGED PLAN, ELEVATIONS & DETAILS TOILETS

Sheet
A8.70

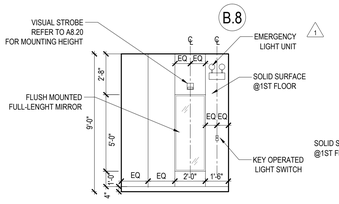




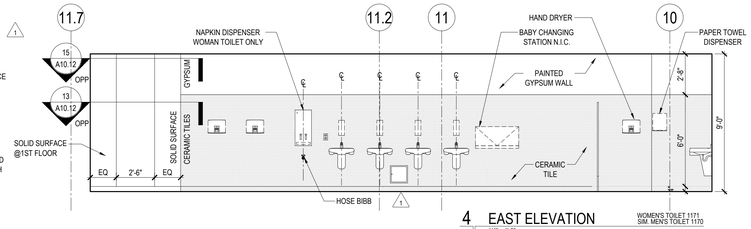
9 SOUTH ELEVATION WOMEN'S TOILET 1171
1/4" = 1'-0"



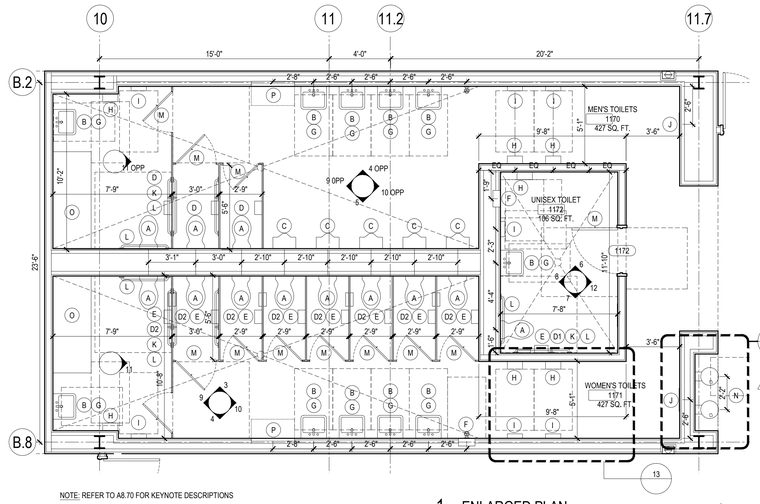
3 WEST ELEVATION WOMEN'S TOILET 1171
1/4" = 1'-0"



10 NORTH ELEVATION WOMEN'S TOILET 1171
1/4" = 1'-0"

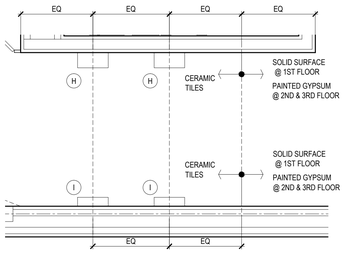


4 EAST ELEVATION WOMEN'S TOILET 1171
SIM. MEN'S TOILET 1170
1/4" = 1'-0"

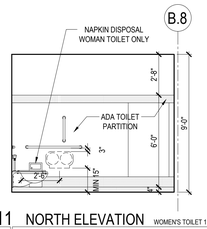


NOTE: REFER TO A8.70 FOR KEYNOTE DESCRIPTIONS

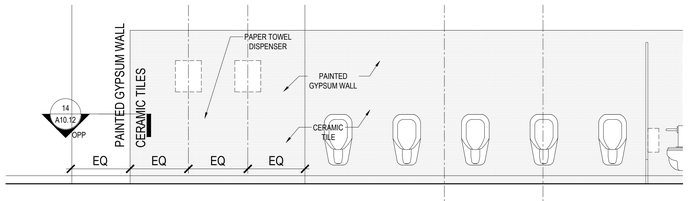
1 ENLARGED PLAN TOILET 1170, 1171,1172
1/4" = 1'-0"



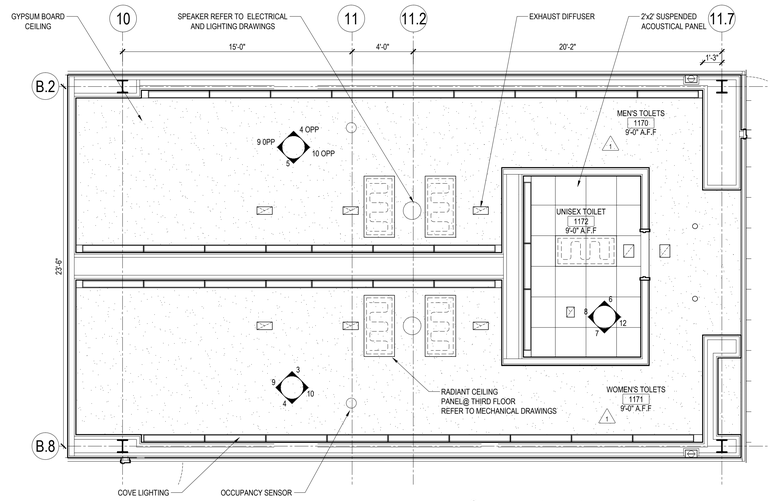
13 ENLARGED PLAN TOILET 1170, 1171 OPP
1/2" = 1'-0"



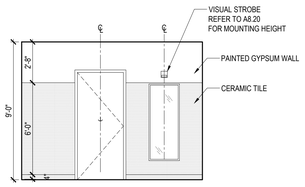
11 NORTH ELEVATION WOMEN'S TOILET 1171
1/4" = 1'-0"



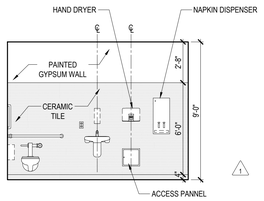
5 EAST ELEVATION MEN'S TOILET 1170
1/4" = 1'-0"



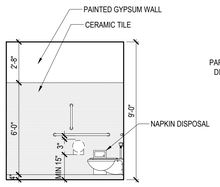
2 ENLARGED RCP TOILETS 1170,1171,1172
1/4" = 1'-0"



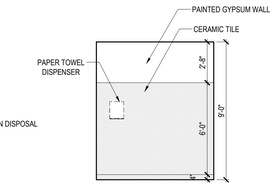
12 NORTH ELEVATION UNISEX TOILET 1172
1/4" = 1'-0"



8 SOUTH ELEVATION UNISEX TOILET 1172
1/4" = 1'-0"

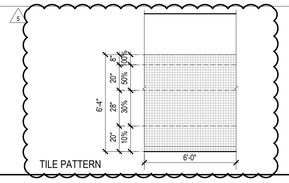


7 EAST ELEVATION UNISEX TOILET 1172
1/4" = 1'-0"



6 WEST ELEVATION UNISEX TOILET 1172
1/4" = 1'-0"

GENERAL NOTES



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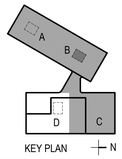
2. MOUNTING HEIGHTS ARE MODIFIED TO COMPLY WITH ADULT'S STANDARDS, CONFIRM AGE RANGE USE FOR EACH BATHROOM PRIOR TO ROUGHING IN FIXTURES.
3. CONTRACTOR TO COORDINATE AND CONFIRM ALL REQUIRED MOUNTING HEIGHTS AND LOCATIONS AT ALL GRAB BARS, FIXTURES, AND RECEPTACLES PRIOR TO THE INSTALLATION OF ALL PLUMBING FIXTURES AND PIPING
4. ALL EXPOSED PIPES UNDER SINKS TO BE INSULATED. OFFSET AS REQUIRED FOR ACCESSIBLE KNEE SPACE.
5. SEE MECHANICAL, PLUMBING, ELECTRICAL, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
6. FLOORS SHALL SLOPE TO DRAINS AT LEAST ONE INCH PER 10 FT (MAX. ONE INCH PER FOOT)
7. WHEN A DIMENSION ON A DRAWING IS GIVEN, THE CONSTRUCTION TOLERANCE ALLOWED IS ± ¼" TO - ¼" OF THE DIMENSION ON THE DRAWING U.N.O.
8. WHEN A RANGE IS GIVEN FOR A DIMENSION ON A DRAWING, THERE IS NO CONSTRUCTION TOLERANCE ALLOWED. THE ITEM MUST BE INSTALLED IN THE RANGE INDICATED.
9. FLUSH VALVE CONTROLS FOR WC TO BE LOCATED ON WIDE SIDE IN ACCESSIBLE STALLS.
10. PROVIDE CONTINUOUS SHEET METAL REINFORCEMENT AND OTHER WALL MOUNTED ITEMS IN WALL AREAS FOR ALL GRAB BARS.
11. HAND DRYERS THAT PROTRUDE MORE THAN 4" INTO THE ACCESSIBLE PATH OF TRAVEL SHALL BE REQUIRED TO HAVE CANE DETECTION AT 27" AF.F. OR MUST BE LOCATED OUTSIDE THE CIRCULATION ROUTE.
12. COAT HOOKS SHALL NOT PROTRUDE INTO THE CIRCULATION ROUTE
13. MENS' TOILET AND WOMENS' TOILET TO HAVE TWO COLOR CERAMIC TILE PATTERN. PATTERN REFER TO TILE PATTERN.



KEY PLAN

PUBLIC BUILDING COMMISSION
Chicago Public Schools

READ DUNNING SCHOOL
4071 N. OAK PARK AVENUE
CHICAGO, IL 60634
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
STL ARCHITECTS

STLARCHITECTS

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DANIEL WEINBACH & PARTNERS
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Landscape Architects of Record

TERRA ENGINEERING LTD.
225 W Ohio St, Chicago, IL 60654
Civil Engineers of Record

IMEG
231 S LaSalle St #600, Chicago, IL 60604
MEPFP Engineers of Record

ARUP NORTH AMERICA LTD.
35 E Upper Wacker Dr #1800,
Chicago, IL 60601
Acoustics Consultant

SCHULER SHOOK
750 N Orleans St # 400, Chicago, IL 60654
Theatre Consultant

EDGE ASSOCIATES INC.
220 E Lake St # 303, Addison, IL 60101
Food Service Consultant

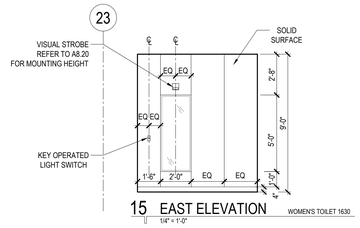
Issuance

Mark	Description	Date
5	ADDENDUM #4	03/02/2018
1	PERMIT REVISION #1	02/07/2018
	ISSUE FOR BID	01/31/2018
	ISSUE FOR PERMIT	01/05/2018
	90% CD	12/01/2017
	60% CD	11/03/2017
	DD REISSUE	09/22/2017
	DESIGN DEVELOPMENT	06/09/2017

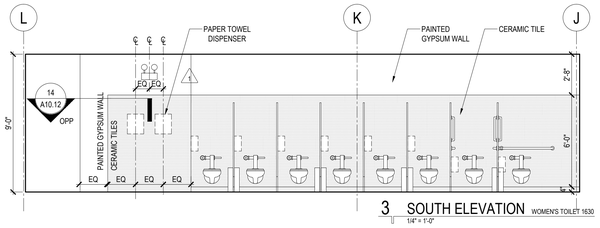
PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
ENLARGED PLAN, ELEVATIONS & DETAILS TOILETS

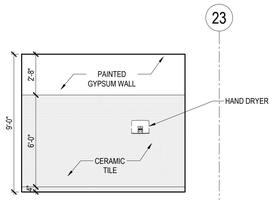
Sheet
A8.71



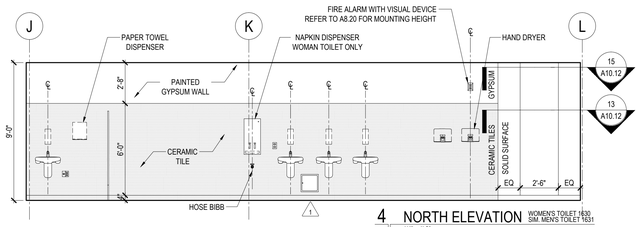
15 EAST ELEVATION WOMEN'S TOILET 1630
1/4" = 1'-0"



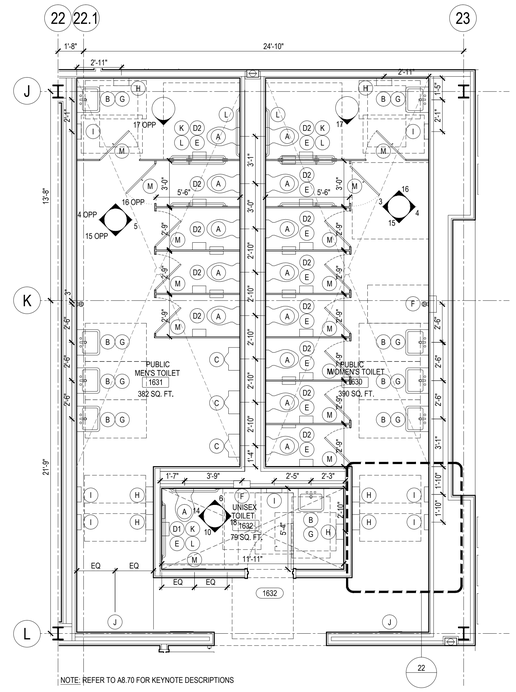
3 SOUTH ELEVATION WOMEN'S TOILET 1630
1/4" = 1'-0"



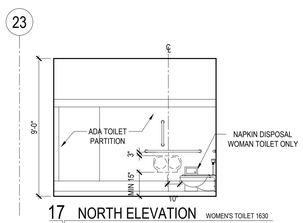
16 NORTH ELEVATION WOMEN'S TOILET 1630
SIM. MEN'S TOILET 1631
1/4" = 1'-0"



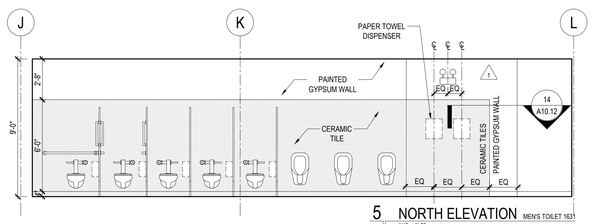
4 NORTH ELEVATION WOMEN'S TOILET 1630
SIM. MEN'S TOILET 1631
1/4" = 1'-0"



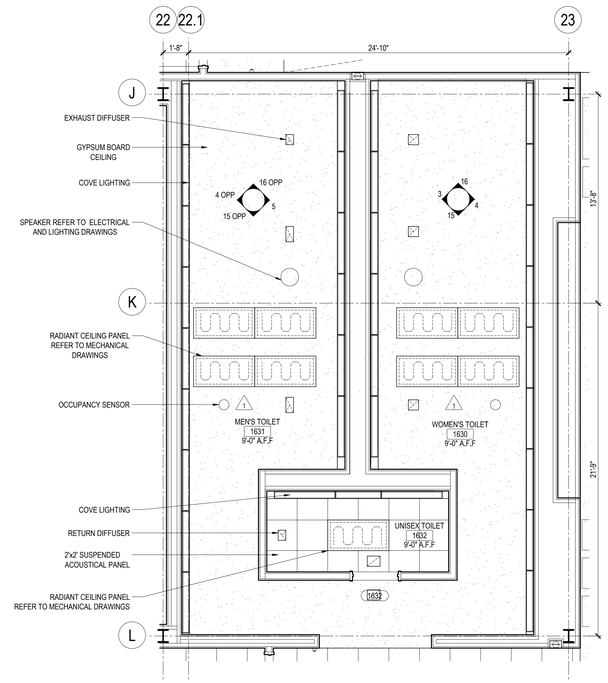
1 ENLARGED PLAN TOILET 1630, 1631, 1632
1/4" = 1'-0"



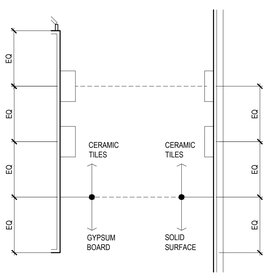
17 NORTH ELEVATION WOMEN'S TOILET 1630
1/4" = 1'-0"



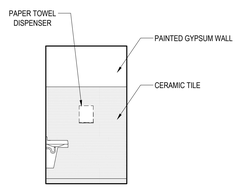
5 NORTH ELEVATION MEN'S TOILET 1631
1/4" = 1'-0"



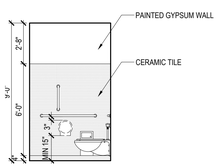
2 ENLARGED RCP TOILET 1630, 1631, 1632
1/4" = 1'-0"



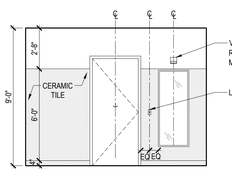
22 ENLARGED PLAN TOILET 1630, 1631 OPP
1/2" = 1'-0"



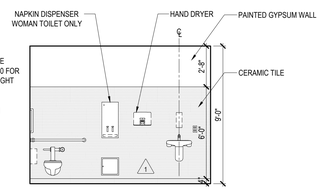
18 NORTH ELEVATION UNISEX TOILET 1632
1/4" = 1'-0"



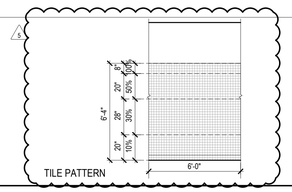
14 SOUTH ELEVATION UNISEX TOILET 1632
1/4" = 1'-0"



10 EAST ELEVATION UNISEX TOILET 1632
1/4" = 1'-0"



6 WEST ELEVATION UNISEX TOILET 1632
1/4" = 1'-0"



TILE PATTERN

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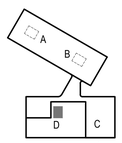

KEY PLAN N

PUBLIC BUILDING COMMISSION
Chicago Public Schools

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CHICAGO, IL 60634
CHICAGO PUBLIC SCHOOLS
CITY OF CHICAGO, MAYOR RAHM EMANUEL

Architect of Record:
STL ARCHITECTS

STLARCHITECTS

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FAX: 312.644.9846
WEB: www.stlchicago.com

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PBC Project Name: READ DUNNING SCHOOL
PBC Contract No: 05165
Project No.: N/A

Title
ENLARGED PLAN, ELEVATIONS & DETAILS TOILETS

Sheet
A8.72