City of Milwaukee

Department of Public Works

Infrastructure Services Division
Facilities Development & Management Section

CITY OF MILWAUKEE DEPT. OF PUBLIC WORKS

MILWAUKEE, WISCONSIN 53202

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION

CONSTRUCTION DOCUMENTS - JANUARY 9, 2014

DRAWING INDEX:

GENERAL

G001 COVER SHEET & INDEX

ARCHITECTURAL DRAWINGS

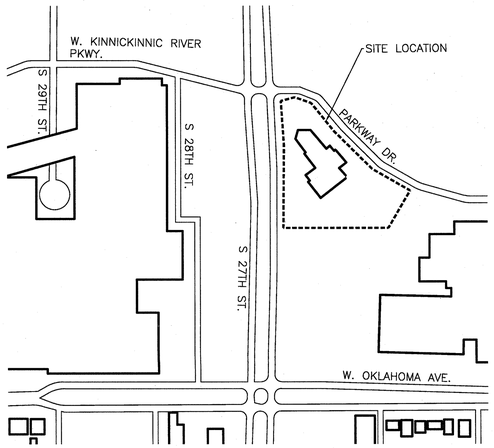
A010	GENERAL NOTES AND SPECIFICATIONS
A011	SITE PLAN
A200	BASEMENT PLAN
A201	FIRST FLOOR PLAN
A440	DETAILS
A441	DETAILS

PLUMBING DRAWINGS

P100	FOUNDATION PLUMBING PLAN - DEMOLITION
P101	BASEMENT PLUMBING PLAN - DEMOLITION
P102	FIRST FLOOR PLUMBING PLAN - DEMOLITION
P200	FOUNDATION PLUMBING PLAN
P201	BASEMENT PLUMBING PLAN
P202	FIRST FLOOR PLUMBING PLAN

PROJECT SIGN-OFF

APPROVED:	SIGNATURE	DATE
SUPERVISOR IN CHARGE		1.14.14
CITY ENGINEER		1/14/14
COMMISSIONER OF PUBLIC WORKS		1/15/14



GEOGRAPHIC VICINITY PLAN

City of Milwaukee

Department of Public Works

Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA

Architecture | Engineering | Planning
HGA Architects and Engineers, LLC
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

WISCONSIN
CHAD R. O'DONNELL
33704
MILWAUKEE, WI
PROFESSIONAL ENGINEER
1-9-14

COVER SHEET & INDEX

COMM. NO. 1203–005–004
SCALE
DATE JANUARY 9, 2014
DRAWN D.CESARZ

CONSTRUCTION DOCUMENTS

G001

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.

G:\1203\1203\005-04\Arch\Architecture\Model\CoverSheet.dwg

SPECIFICATIONS

Alternate Bids:

Alternate Number 1 – Add exterior concrete work on the West side of the building at overhead door:

Remove and replace the concrete retaining wall, concrete paving and curb and the concrete sidewalk and curb on the west side of the building at the overhead door. Salvage railing, clean, repaint and reinstall. Replace existing vehicle sensor in the concrete with a new sensor. Reconnect to the existing sensor monitoring system to maintain a functional system.

Alternate Number 2A – Add exterior concrete work on the East side of the building at North overhead door:

Remove and replace concrete paving and curb to the first control joint (approximately 10 feet) on the east side of the building at North overhead door. Replace existing vehicle sensor in the concrete with a new sensor. Reconnect to the existing sensor monitoring system to maintain a functional system.

Alternate Number 2B (Additive to Alternate 2A) – Add additional exterior concrete work on the East side of the building at North overhead door:

Remove and replace concrete paving and curb from work of Alternate 2 A to the sidewalk on the east side of the building at North overhead door. Replace one a section concrete sidewalk (approximately 6 feet square). Remove, salvage, reset and reconnect the existing trench drain

Alternate Number 3 – Add exterior concrete work on the East side of the building at South overhead door:

Remove and replace concrete paving and curb to the first control joint (approximately 10 feet) on the east side of the building at South overhead door:. Replace existing vehicle sensor in the concrete with a new sensor. Reconnect to the existing sensor monitoring system to maintain a functional system.

Alternate Number 4A – Repair existing pipe railing:

Remove, refurbish, repaint and reinstall the pipe railing on the retaining wall on the east side of the building.

Alternate Number 4B (In lieu of Alternate 4A) – Replace existing pipe railing:
Remove and replace the pipe railing on the retaining wall on the east side of the building with a new pipe railing with a powder coat finish to match the existing railing configuration.

Alternate Number 5 – Replace Lower Level trench drains and reset cleanouts:

Remove and replace the trench drains and surrounding concrete in the parking garage below the building. Remove and reset cleanouts flush with paving. Repair concrete paving as required at reset cleanout.

Alternate Number 6 – Add traffic topping:

Install seamless waterproofing membrane, resistant to traffic wear exposures on the new Garage and Sallyport floor. Clean and prep concrete floor between saw cut and the adjacent wall and install seamless waterproofing membrane to wall. Include floor to remain at the corridor alcove and floor at the janitor sink at the north corner of the garage.

GENERAL REQUIREMENTS
1. SUBMITTALS
   a. Product Data: For product or system specified include:
   i. Material List: Provide inclusive list of required product or material. Identify each product or material by manufacturer's catalog number and general classification.
      ii Manufacturer's Information: Provide manufacturer's technical information, instructions for handling, storing and installation of material proposed for use.
      iii Certification by manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).
   b. Samples: Submit samples for color selection and finish acceptance.
2. CLEANING
   a. Maintain a clean work site as work proceeds.
   b. During progress of work keep premises free from unnecessary accumulation of tools, equipment, surplus materials and debris. Remove debris at end of each workday.
   c. Upon completion of work thoroughly clean all affected surfaces and leave premises neat and clean, to satisfaction of the City and the Architect.
3. PROTECTION
   a. Provide protective coverings and enclosures necessary to prevent damage to existing spaces and materials to remain.
   b. Provide dustproof temporary enclosures separating areas under demolition and construction from the remainder of the building. Provide temporary hinged doors in temporary enclosures where necessary. Temporary and permanent doors shall be completely sealed with tape or other suitable material during demolition work and shall remain sealed until dust has settled.
   c. Adequately cover or otherwise protect existing or finished work and other finished surfaces and protect from damage. Repair damage as result of inadequate or unsuitable protection as acceptable to the City and the Architect.
4. EQUAL PRODUCTS
   a. Proposed equivalent products shall be approved by the architect prior to bidding.
5. CUTTING, PATCHING AND DEMOLITION
   a. Provide cutting, demolition, removal work, patching and restoration of work as necessary to accomplish and complete all work under the Contract, including any relocation or reuse of existing materials, equipment, systems, or other work, as well as the disposition of salvaged materials or debris. Use only mechanics skilled in the trade and experienced in the particular type of work involved.
   b. Carefully remove, salvage, clean and preserve materials, equipment and other items to be in the work area not specifically indicated to be demolished for reuse. Exercise extreme care in removals to prevent damage or to make materials unsuitable to reuse. Reinstall salvaged items to pre–demolish conditions. For materials shown or called for to be reused and which are damaged, replace with equivalent and matching work.
   c. Remove and reinstall existing ceiling mounted items including light fixtures conduit, etc. or other existing items to remain as required for indicated work.
   d. Provide temporary bracing, shoring, needling and support during demolition, cutting, remodeling and related new construction as necessary for the execution of the Work and the protection of persons and property. Perform all work with appropriate supports, protection and methods to prevent collapse, settling or damage to property or persons. Provide adequate supports for the loads to be carried, with loads properly distributed, to lower levels and sound bearing, if necessary.
   e. Existing construction that has been damaged as a result of the Work shall be repaired to an extent and as required to match adjacent existing undamaged construction.

WATERPROOFING: 215 Mils Fabric Reinforced Monolithic Membrane
1. Furnish and install a complete horizontal waterproofing assembly including surface conditioner, a monolithic, reinforced rubberized asphalt membrane, protection course and flashings. To ensure total system compatibility all products shall be purchased from a single–source manufacturer.
2. Installer: Certified by the membrane manufacturer.
3. Warranty: Provide 10 year manufacturer's total system and watertightness warranty. Cover components of the waterproofing assembly, including membrane and flashing.
4. Manufacturer: American Hydrotech, Inc.
   303 East Ohio Street
   Chicago, Illinois 60611–3318
   800–877–6125 or 312–337–4998
   FAX: 312–661–0731
5. Product: Monolithic Membrane 6125® or equal. Including:
   a. Asphaltic surface conditioner for concrete surfaces.
   b. Flashing/Reinforcing: 60–mil (1.5 mm) thick, uncured neoprene flashing/(heavy duty) reinforcing sheet, with polyester fabric reinforcing sheet and woven fiberglass fabric reinforcing sheet as required by manufacturer for specified warranty.
   c. Adhesives/Sealant: Contact adhesives, bonding adhesive and lap sealant.
   d. Protection Course: Fiberglass reinforced rubberized asphalt sheet.
6. Substrate Cleaning:
   a. Asphalt or other existing membrane shall be removed.
   b. Thoroughly sweep the substrate which is to receive the waterproofing membrane and blow clean using an air compressor to remove any remaining loose debris.
7. Inspection: Refer to Manufacturer's Installation Guidelines. Correct defects.
   a. Examine surfaces to receive the waterproofing assembly to verify it is acceptable and proper for the application of the membrane.
   b. Surfaces shall be dry, smooth, free of depressions, voids, protrusions, clean and free of unapproved curing compounds, form release agents and other surface contaminants.
   c. Concrete shall be monolithic, smooth, free of voids, spalled areas, laitance, honeycombs, and sharp protrusions.
   d. Joints shall be pre–detailed with membrane and fabric reinforcing prior to full membrane application.
8. Installation: Install per manufacturer's installation instructions.
   a. Apply the rubberized asphalt membrane at a rate to provide a continuous, monolithic coat of 90 mil minimum (approximately 2.3 mm), into which is fully embedded a layer of the spunbonded polyester fabric reinforcing sheet, followed by another continuous monolithic coat of membrane at an average thickness of 125 mil (approx. 3.2 mm).
   b. Total membrane thickness shall be 215 mils average (approx. 5.5 mm), 180 mils minimum.
   c. Embed the protection sheet into the membrane while it is still hot.
9. Water Test: The deck area shall be water tested by means of ponding water to a minimum depth of 2" (50.8 mm) for a period of 48 hours to check the integrity of the membrane installation. If leaks should occur, the water shall be drained completely and the membrane installation repaired.

SEALANTS
1. Provide sealant where indicated (SLNT) or as required to achieve a weather/water–tight assembly. Confirm sealant compatibility with selected waterproofing or other products in contact with the sealant with the manufacturers prior to installation.
2. 2–Part Polyurethane Sealant for Horizontal Applications: Self–leveling polyurethane based 2 part elastomeric sealant, complying with FS–TT–S–00227E, Type I, Class A, with shore A hardness of not less than 30 and elongation and compression of not less than 25 percent. ASTM C920, Type M, Class 25, Grade P.
   a. Acceptable Manufacturers and Products:
      i. Sika Corporation Sikaflex 2c NS/SL
      ii. Tremco Incorporated: THC900.
      iii. BASF Building Systems: Sonolastic SL–1 or 2.
      iv. Pecora Corporation: Urexpan NR–200
3. Low–Modulus Silicone Rubber Sealant for joints at drywall and masonry: Silicone rubber based, one part neutral cure elastomeric sealant with plus 50 percent to minus 50 percent movement complying with FS–TT–S–001543, Class A, and recommended by manufacturer for joints.
   a. Acceptable Manufacturers and Products:
      i. General Electric: Silpruf SCS 2000.
      ii. Dow Corning Corporation: 795 Building Sealant.
      iii. BASF Building Systems: Sonolastic Omniseal or OmniPlus.
      iv. Pecora Corporation: 864 Silicone.
      v. Tremco Construction Division: Spectrem 3

TRAFFIC COATINGS: (Alternate # 6) Seamless waterproofing membrane, resistant to traffic wear exposures.
1. Furnish and install a complete seamless waterproofing membrane resistant to vehicle traffic wear exposures. The products shall meet or exceed requirements of ASTM C957, High–Solids Content, Cold Liquid–Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface.
2. Installer: Certified by the membrane manufacturer.
3. Manufacturer: Sika Corporation
   201 Polito Avenue
   Lyndhurst, NJ 07071
   201–933–8800
   FAX: 201–933–6255
4. Product: Sikalastic 720/745 Traffic System or equal.
   a. Sikafloor FTP water–based epoxy primer or other primer recommended by manufacturer
   b. Sikalastic 720 Base two–component, high solids, fast curing polyurethane base coat
   c. Sikalastic 745 AL two–component, high solids, fast curing aliphatic polyurea top coat
5. Installation: Install per manufacturer's installation instructions.
   a. The substrate must be clean, dry, sound and free of surface contaminants. Remove all traces of dust laitance, grease, oils, curing compounds, form release agents and foreign particles by mechanical means, i.e. – milling, scarifying, shotblasting, etc., as approved by the engineer.
   b. Apply at the recommended coverage rate to obtain a total dry film thickness exclusive of aggregate of 55 mils.
   c. Aggregate shall be clean, rounded, oven dried quartz sand with a minimum gradation of 16–30 mesh, and a minimum hardness of 6.5 per the Moh's scale.
   d. Aggregate shall be supplied in pre–packaged bags and be free of metallic or other impurities.

PAINT
1. Furnish and install a complete paint system including primers and undercoat paint produced by same manufacturer as finish coats..
2. Installer: Engage experienced applicator who has completed painting system applications similar in material and extent to that indicated for this Project with record of successful in–service performance.
3. Acceptable Manufacturers:
   a. Glidden Professional/Devoe Coatings
   b. Sherwin–Williams
   c. Benjamin Moore
   d. Mythic Paint
   e. PPG Industries
   f. Pittsburgh Paints
4. Exterior Gypsum Board:
   a. Water Based System (Low VOC): (100 percent Acrylic Latex Finishes over Acrylic Primer/Sealer).
      i. Primer: S–W Exterior Latex Wood Primer, A–100 Exterior Latex Primer, B42W8041.
      ii. Finish: 2 coats S–W 0VOC Acrylic Semi–Gloss, B66–650 Series.
5. Pavement Marking:
   a. White and yellow, oil–based, alkyd, reflectorized traffic paint.
6. Powder coating:
   a. Electrostatic applied polyester powder coating.
   b. Finish coat: One coat of powder coating based on Polyester for commercial architecture.
   c. Minimum thickness shall be 2.5 – 3.5 mils dry film thickness
7. Installation: Install per manufacturer's installation instructions.
   a. Perform preparation and cleaning procedures in accordance with paint manufacturer's instructions for each particular substrate condition.
   b. Gypsum Wallboard: Remove contamination from gypsum wallboard surfaces and prime to show defects, if any. Paint after defects have been remedied.
   c. Ferrous Metals: Clean non–galvanized, ferrous surfaces that have not been shop–coated of oil, grease, dirt, loose mill scale and other foreign substances by solvent or mechanical cleaning, complying with Steel Structures Painting Council (SSPC)–SP3.
   d. Existing Surfaces to be Repainted or Refinished: Wash surfaces to remove grease, oil, soil or other matter which will interfere with proper bond of new materials. Scrape and wire brush loose or flaking paint. Fill cracks, voids or other defects.
   e. Pavement Marking: Establish control points for marking pavement and provide templates to control paint application. Paint 4 inch wide strip for parking stall and lane painting, Apply at 300 lin. ft. /gallon minimum.

GYPSUM BOARD SUPPORTS AND INSULATION

1. Install steel framing systems for gypsum sheathing assemblies and insulation.
2. Framing Members, General: Comply with ASTM C754 for conditions indicated.
   a. Z–Furring: ASTM C645, with slotted or nonslotted web.
   b. Protective Coating: ASTM A653, G40, hot–dip galvanized zinc coating.
   c. Minimum Base Metal Thickness: 33 mils (0.033 inch).
3. Insulation: Expanded polystyrene, 25 psi minimum.
4. Installation: Install per manufacturer's installation instructions.
   a. Erect furring directly attached to concrete at 16" o.c.
   b. Install insulation tight between furring components.
   c. Install steel framing components level to within 1/8 inch in 12 feet

6. Install steel framing systems for gypsum sheathing assemblies and insulation.
7. Framing Members, General: Comply with ASTM C754 for conditions indicated.
   a. Z–Furring: ASTM C645, with slotted or nonslotted web.
   b. Protective Coating: ASTM A653, G40, hot–dip galvanized zinc coating.
   c. Minimum Base Metal Thickness: 33 mils (0.033 inch).
3. Insulation: Expanded polystyrene, 25 psi minimum.
4. Installation: Install per manufacturer's installation instructions.
   a. Erect furring directly attached to concrete at 16" o.c.
   b. Install insulation tight between furring components.
   c. Install steel framing components level to within 1/8 inch in 12 feet.

GYPSUM BOARD

5. Install and finish Glass–Fiber–Faced Water–Resistant Gypsum Sheathing and accessories in accordance with manufacturer's printed instructions and comply with installation recommendations of GA 253 and ASTM C1280, including appendixes.
6. Manufacturer: Georgia–Pacific
7. Product: DensGlass® Sheathing or equal.
8. Joint Treatment product: Georgia–Pacific Gypsum's ToughRock 90 setting compound or equal.
9. Accessories: Control joint, Corner Trim, Edge Trim, Inside Corner Trim as recommended by manufacturer for Glass–Fiber–Faced Water–Resistant Gypsum Sheathing.
10. Installation: Install per manufacturer's installation instructions.
   a. Screw attach panels with edges butted tightly and ends occurring over firm bearing. Use Type S cadmium plated screws spaced 3/8 inch from ends and edges and approximately 8 inches o.c.
   b. Install indicated and required accessories.
   c. Embed 2" (51 mm) wide fiberglass mesh tape in joint compound over all joints.
   d. Finish exposed drywall surfaces with joints, corners and exposed edges reinforced or trimmed and with joints, fastener heads, trim accessory flanges and surface defects filled with joint compound in accordance with manufacturer's recommendations for smooth, flush surface. Form true, level or plumb lines, without joints, fastener heads, flanges of trim accessories or defects visible.
   e. Apply a skim coat of ToughRock 90 setting compound, or equivalent, over the panels to achieve a uniform, smooth finish over the entire area.

GENERAL NOTES
NO SCALE

A. THESE GENERAL NOTES APPLY TO THE CONSTRUCTION DOCUMENTS AND SHALL GOVERN UNLESS NOTED OTHERWISE BY GENERAL NOTES OR KEYNOTES ON SPECIFIC SHEETS.

B. COORDINATE ALL PROJECT PHASING WITH OWNER OR AS SPECIFIED AND/OR SHOWN ON THE DRAWINGS.

C. PROVIDE A SAFE MEANS OF EGRESS THROUGH AND/OR AROUND THE BUILDING AND SITE PER APPLICABLE CODES AT ALL TIMES DURING THE CONSTRUCTION PROCESS. MINIMIZE DISRUPTION TO ADJACENT AREAS/FLOORS AS MUCH AS POSSIBLE.

D. MINIMIZE NOISE TO A LEVEL ACCEPTABLE TO THE OWNER. SCHEDULE TASKS CREATING

E. EXCESSIVE NOISE OR NEAR SENSITIVE AREAS WITH THE OWNER.

F. PROVIDE DUST CONTROL BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS AT ALL TIMES AS SPECIFIED.

G. NOTIFY ARCHITECT PROMPTLY IF INFORMATION SHOWN IN ONE CONSTRUCTION DOCUMENT CONFLICTS WITH INFORMATION SHOWN ON ANOTHER.

H. NOTIFY ARCHITECT PROMPTLY IF CONSTRUCTION DOCUMENTS ARE INCONSISTENT WITH THE CURRENT APPLICABLE CODES AND REGULATIONS.

I. NOTIFY ARCHITECT PROMPTLY IF ANY EXISTING CONDITIONS CONFLICT WITH THE CONSTRUCTION DOCUMENTS.

J. STRUCTURAL STEEL MEMBER PROFILES AS INDICATED ON ARCHITECTURAL DRAWINGS MAY VARY FROM ACTUAL PROFILES AND SIZES INDICATED ON THE STRUCTURAL DRAWINGS WHICH SHALL GOVERN.

K. COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES. SPEAKERS, SMOKE DETECTORS, EXIT LIGHTS, ACCESS PANELS, SPRINKLER HEADS, HVAC DUCTS, DIFFUSERS, REGISTERS, AND OTHER SUCH CEILING ITEMS WITH MECHANICAL, ELECTRICAL AND OTHER TRADES. NOTIFY ARCHITECT PROMPTLY IF ANY LOCATIONS CONFLICT WITH ARCHITECTURAL REFLECTED CEILING PLANS.

L. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FLOOR, WALL, AND CEILING OPENINGS. ALL OPENINGS SHALL BE CUT AND PATCHED AS REQUIRED BY EACH DISCIPLINE OR TRADE REQUIRING THE OPENING UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. PATCHING IS TO BE IN CONFORMANCE WITH APPLICABLE CODES.

M. WOOD BLOCKING WITHIN THE WALL SYSTEM SHALL BE FIRE RETARDANT TREATED. ALL EXTERIOR WOOD BLOCKING SHALL BE MOISTURE TREATED. WOOD MAY NOT BE USED IN AN EXPOSED LOCATION UNLESS IT IS A FINISH MATERIAL IN A NON-COMBUSTIBLE ASSEMBLY OR AS SPECIFIED.

N. REMOVE AND REINSTALL EXISTING WALL, FLOOR OR CEILING MOUNTED ITEMS INCLUDING LIGHT FIXTURES, CONDUIT, ETC. OR OTHER EXISTING ITEMS TO REMAIN AS REQUIRED FOR INDICATED WORK.

GENERAL STRUCTURAL NOTES

APPLY UNLESS NOTED OTHERWISE ON DRAWINGS OR SPECIFICATIONS

DESIGN CODE

2009 INTERNATIONAL BUILDING CODE W/ WISCONSIN AMENDMENTS

DESIGN LOADS

OCCUPANCY CATEGORY
NATURE OF OCCUPANCY ________ POLICE STATION
OCCUPANCY CATEGORY ________ IV

FLOOR LIVE LOADS

FLOOR LOCATION	LIVE LOAD	REDUCED	PARTITIONS
GARAGE	100 PSF	NO	NA

(LIVE LOAD REDUCTION PER IBC 1607.9)

**NOTE: DESIGN LOADS OF EXISTING CONSTRUCTION ARE UNKNOWN, FLOOR FLOOR LOADS SHOWN ABOVE ARE FOR NEW CONSTRUCTION ONLY.

MATERIALS

CAST–IN–PLACE CONCRETE
F'c = 4000 PSI AT 28 DAYS

STEEL REINFORCING
REINFORCING BARS ________ ASTM A615 (GRADE 60)
WELDED BARS AND ANCHORS ________ ASTM A706 (GRADE 60)
DEFORMED BAR ANCHORS ________ ASTM A496
EPOXY–COATED REINFORCING BARS ________ ASTM A775 OR ASTM A934
WELDED WIRE FABRIC ________ ASTM A185

ANCHORS TO CONCRETE
EXPANSION ANCHORS ________ HILTI KWIK BOLT TZ, SIMPSON STRONG–BOLT
ADHESIVE ANCHORS ________ HILTI HIT RE 500–SD, SIMPSON SET–XP

FOUNDATIONS

FOOTINGS HAVE BEEN DESIGNED FOR AN ASSUMED MAXIMUM NET SOIL BEARING PRESSURE OF 2,000 PSF. THIS VALUE SHALL BE FIELD VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

IF THE SOIL AT THE FOUNDATION OR SLAB–ON–GRADE ELEVATIONS SHOWN IS OF QUESTIONABLE BEARING VALUE, THE ARCHITECT/ENGINEER SHALL BE NOTIFIED AT ONCE FOR RESOLUTION.

WALLS RETAINING SOIL HAVE BEEN DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 50 POUNDS PER CUBIC FOOT FOR "ACTIVE" CONDITIONS. THIS VALUE SHALL BE FIELD VERIFIED BY A GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

WHERE FILL MATERIAL IS PLACED ON BOTH SIDES OF WALLS, IT SHALL BE PLACED IN LAYERS ALTERNATELY ON OPPOSITE SIDES TO MAINTAIN LEVELS THAT WILL AVOID DISPLACEMENT OF, OR DAMAGE TO, THE WALLS.

WHERE FILL MATERIAL IS PLACED ON ONE SIDE OF A WALL, THE WALL SHALL BE ADEQUATELY SHORED AND BRACED OR THE MATERIAL SHALL NOT BE PLACED UNTIL SUPPORTING FLOOR SLABS, INCLUDING SLABS–ON–GRADE, HAVE BEEN POURED AND SET.

PROTECT IN–PLACE FOUNDATIONS AND SLABS ON GRADE FROM FROST PENETRATION UNTIL PROJECT COMPLETION.

SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS SHALL NOT EXCEED ONE VERTICAL TO TWO HORIZONTAL. STEP FOOTINGS DOWN AS NECESSARY TO MAINTAIN THIS SLOPE.

CAST-IN-PLACE CONCRETE

CODE FOR REINFORCED CONCRETE DESIGN AND CONSTRUCTION – ACI 318.

ARRANGEMENT AND BENDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL, LATEST EDITION.

REINFORCING STEEL SHALL BE NEW DEFORMED BARS.

CLEAR COVER REQUIREMENTS:
CONCRETE COVER TO REINFORCING STEEL, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:

SURFACES CAST AGAINST EARTH ________ 3"

FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER:
#6 OR LARGER ________ 2"
#5 OR SMALLER ________ 1 1/2"

NON–CONTINUOUS ENDS OF TOP BARS IN BEAMS AND SLABS SHALL TERMINATE IN A STANDARD HOOK, UNLESS DETAILED OTHERWISE. BAR LENGTHS INDICATED DO NOT INCLUDE HOOKS WHERE THEY OCCUR.

WHERE REINFORCING BARS ARE SHOWN CONTINUOUS, PROVIDE CLASS B TENSION LAP SPLICES (12" MINIMUM) EXCEPT WHERE NOTED OR DETAILED OTHERWISE. LAP WWF WIRE SPACING PLUS 2" (6" MINIMUM).

DETAIL AND PROVIDE SUITABLE WIRE SPACERS, CHAIRS, TIES, ETC., FOR SUPPORTING REINFORCING STEEL IN THE PROPER POSITION WHILE PLACING CONCRETE.

ALL CHAIRS SUPPORTED BY GRADE SHALL INCLUDE SAND PLATES.

BAR SUPPORTS WHICH COME IN CONTACT WITH EXPOSED SURFACES SHALL HAVE PLASTIC OR RUBBER TIPS OR BE STAINLESS STEEL.

VERIFY LOCATION OF OPENINGS SHOWN THROUGH CONCRETE SLABS OR WALLS AND COORDINATE ANY ADDITIONAL REQUIRED OPENINGS WITH OTHER TRADES AND THE ARCHITECT/ENGINEER.

CONCRETE EXPOSED TO FREEZING AND THAWING SHALL CONTAIN 6% (PLUS OR MINUS 1.5%) ENTRAINED AIR.

ALUMINUM CONDUIT OR PIPING MAY NOT BE EMBEDDED IN ANY CONCRETE.

CALCIUM CHLORIDE IS NOT PERMITTED AS A CONCRETE ADDITIVE.

PRESTRESSED PRECAST CONCRETE

THE DESIGN AND MANUFACTURE OF ALL PRESTRESSED CONCRETE UNITS SHALL CONFORM TO ACI 318.

PRECAST, PRESTRESSED MEMBERS SHALL BE DESIGNED FOR A LIVE LOAD OF 100 PSF AND SUPERIMPOSED DEAD LOAD OF 10 PSF.

PRECAST, PRESTRESSED MEMBERS ARE DESIGNED FOR "IN PLACE" LOADS. IT SHALL BE THE RESPONSIBILITY OF THE PRECAST MANUFACTURER TO TRANSPORT AND ERECT THE PRECAST MEMBERS WITHOUT OVERSTRESSING OR OTHERWISE DISTRESSING THEM IN ANY MANNER.

VERIFY ALL OPENINGS SHOWN ON CONTRACT DOCUMENTS. ADDITIONAL OPENINGS OF GREATER THAN 8" DIMENSION SHALL NOT BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE PRECAST MANUFACTURER.

DESIGN MUST INCLUDE ALL CONCENTRATED LOADS FROM MECHANICAL EQUIPMENT, HEADERS, ETC.

PRECAST MANUFACTURER SHALL FURNISH AND DESIGN HEADERS FOR OPENINGS AS REQUIRED OR INDICATED ON THE DRAWINGS. PRECAST MANUFACTURER SHALL PROVIDE WELD PLATES AND OTHER EMBEDDED ITEMS NOTED ON THE DRAWINGS.

PROVIDE 1/8" THICK CONTINUOUS MULTIMONOMER PLASTIC BEARING STRIPS BETWEEN HOLLOW CORE SLABS AND MASONRY OR CONCRETE SUPPORTS.

ARCHITECTURAL MATERIAL DESIGNATIONS
1'-0" = 1'-0"

- ASPHALT CONCRETE
- BLANKET INSULATION
- CONCRETE
- CONCRETE MASONRY UNIT
- EARTH
- EXISTING CONSTRUCTION
- FACEBRICK
- GRANULAR MATERIAL
- GASKET (LARGE SCALE)
- MARBLE
- METAL
- PLASTER OR GYPSUM BOARD
- QUARRY TILE
- RIGID INSULATION
- STONE - EXTERIOR
- SOLID WOOD FINISHED
- TERRAZZO
- WOOD BLOCKING - CONTINUOUS
- WOOD BLOCKING - INTERRUPTED
- WOOD SHEATHING

NOTE: NOTIFY ARCHITECT IMMEDIATELY OF ANY UNCLEAR MATERIAL DESIGNATIONS.

CONTACT INFORMATION
1'-0" = 1'-0"

OWNER: CITY OF MILWAUKEE — PHONE: (414)-286-3407
CONTACT: DANIEL T. PITTS — FACSIMILE: (414) 286-5907

ARCHITECT: HAMMEL, GREEN AND ABRAHAMSON — PHONE: (414)-278-3356
CONTACT: MATTHEW MIKOLAINIS — FACSIMILE: (414)-278-7734

PROJECT INFORMATION
1'-0" = 1'-0"

PROJECT NAME: 6TH DISTRICT POLICE STATION	
PROJECT ADDRESS: 3006 SOUTH 27TH STREET MILWAUKEE, WI	
PROJECT DESCRIPTION: GARAGE FLOOR RESTORATION	
OCCUPANCY: S-2	MIXED OCCUPANCY: NO
PROPOSED USE: NO CHANGE	
REQUIRED FIRE SEPARATION: NO CHANGE	TYPE OF CONSTRUCTION 11B
GROSS SQUARE FEET: XXX	
HEIGHT OF BUILDING: 24'	STORIES: 2
ALLOWABLE FLOOR AREA: NO CHANGE - 26,000 SF	
MAXIMUM HEIGHT OF BUILDING: NO CHANGE - 55'	MAXIMUM NUMBER OF STORIES: 3
HEIGHT INCREASES: NO CHANGE	CODE REFERENCE: XXX
HIGH RISES: N.A.	MEZZANINE: NO

City of Milwaukee
Department of Public Works
Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

Architecture | Engineering | Planning
HGA Architects and Engineers, LLC.
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

GENERAL NOTES & SPECIFICATIONS

COMM. NO. 1203–005–004
SCALE
DATE JANUARY 9, 2014
DRAWN D.CESARZ

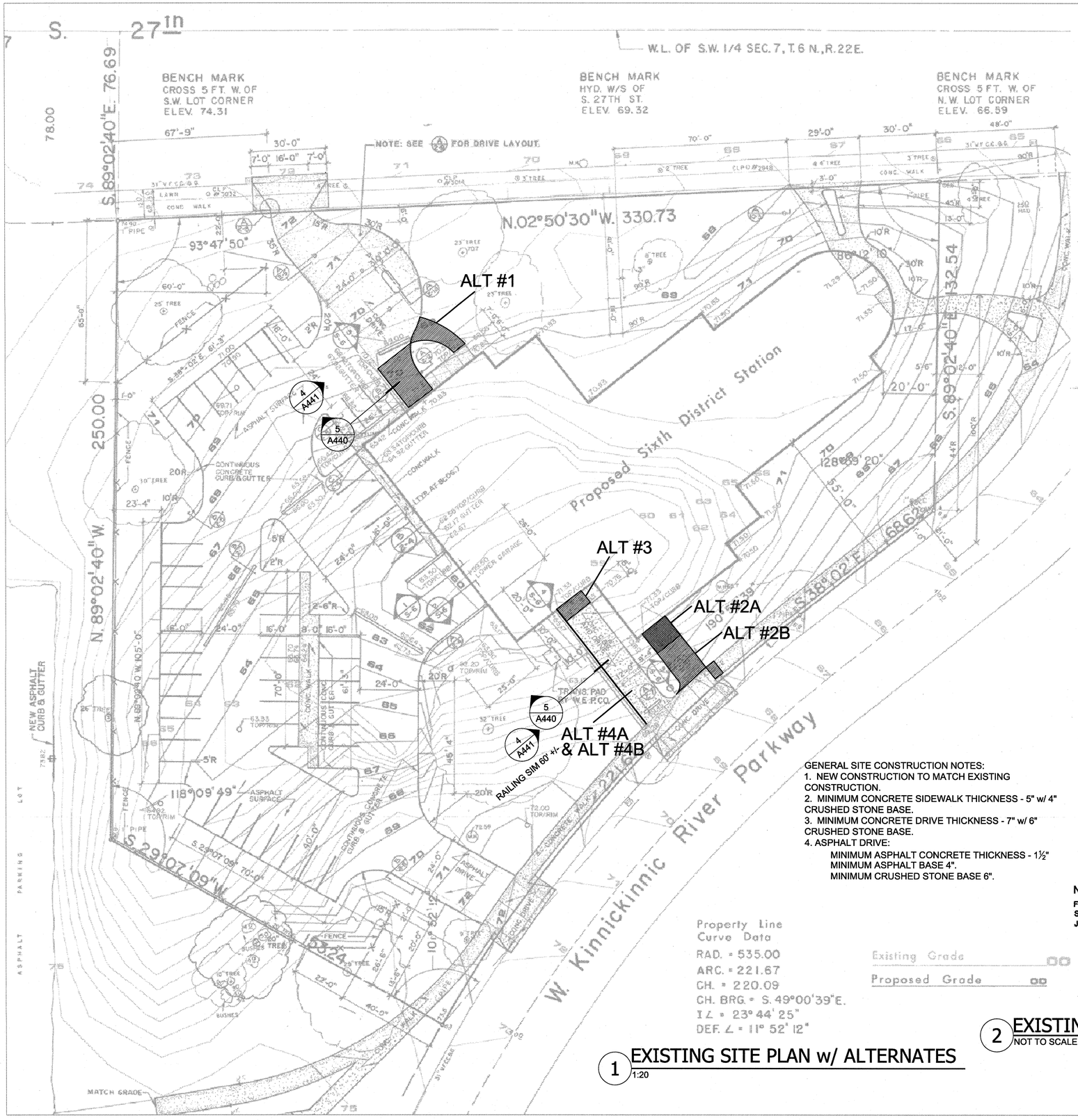
CONSTRUCTION DOCUMENTS

A010

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.

G:\1200\1203\005–04\4. Work\Architecture\Model\General Notes.dwg

###



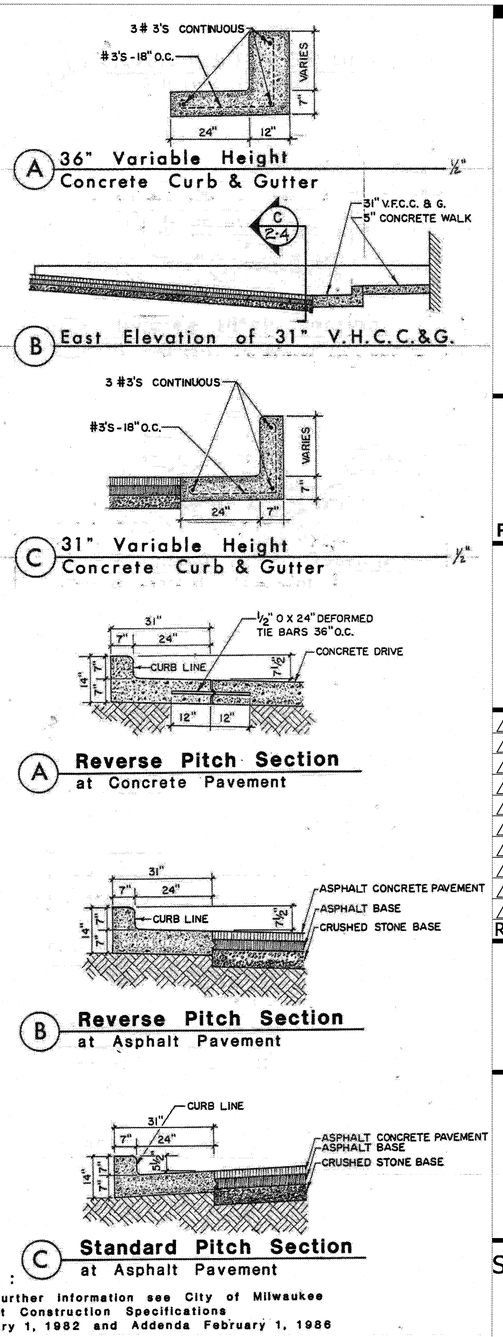
GENERAL SITE CONSTRUCTION NOTES:
1. NEW CONSTRUCTION TO MATCH EXISTING CONSTRUCTION.
2. MINIMUM CONCRETE SIDEWALK THICKNESS - 5" w/ 4" CRUSHED STONE BASE.
3. MINIMUM CONCRETE DRIVE THICKNESS - 7" w/ 6" CRUSHED STONE BASE.
4. ASPHALT DRIVE:
   MINIMUM ASPHALT CONCRETE THICKNESS - 1½"
   MINIMUM ASPHALT BASE 4".
   MINIMUM CRUSHED STONE BASE 6".

Property Line Curve Data
RAD. = 535.00
ARC. = 221.67
CH. = 220.09
CH. BRG. = S. 49°00'39"E.
I∠ = 23° 44' 25"
DEF. ∠ = 11° 52' 12"

Existing Grade
Proposed Grade

1 EXISTING SITE PLAN w/ ALTERNATES
1:20

2 EXISTING SITE DETAILS - EXISTING SITE PLAN
NOT TO SCALE - FOR REFERENCE ONLY



A 36" Variable Height Concrete Curb & Gutter

B East Elevation of 31" V.H.C.C.&G.

C 31" Variable Height Concrete Curb & Gutter

A Reverse Pitch Section at Concrete Pavement

B Reverse Pitch Section at Asphalt Pavement

C Standard Pitch Section at Asphalt Pavement

Note :
For further information see City of Milwaukee Street Construction Specifications January 1, 1982 and Addenda February 1, 1986

City of Milwaukee
Department of Public Works
Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

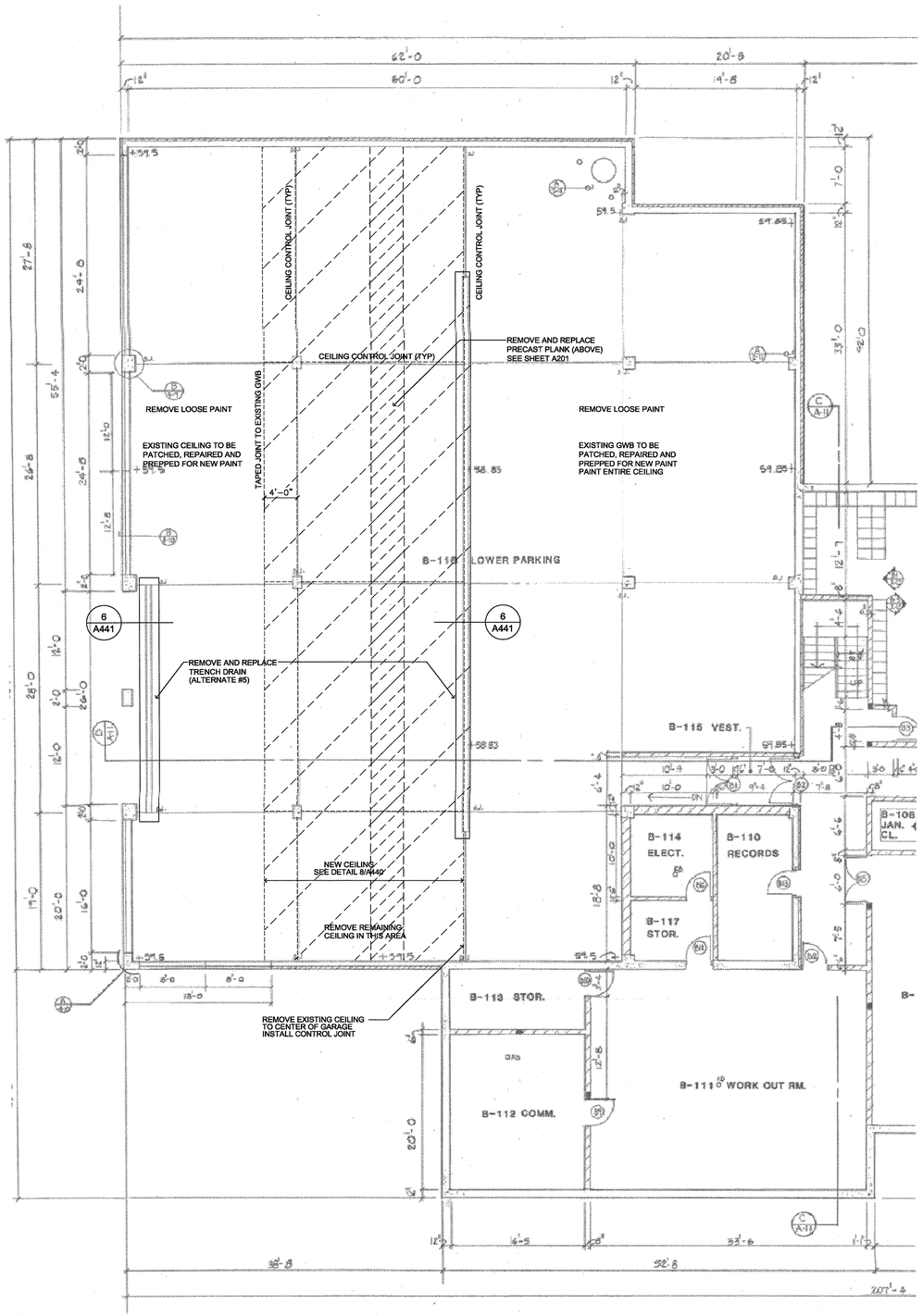
SITE PLAN

COMM. NO.	1203-005-004
SCALE	1:20
DATE	JANUARY 9, 2014
DRAWN	D.CESARZ

CONSTRUCTION DOCUMENTS

A011

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.



1 EXISTING BASEMENT PLAN
1/8"=1'-0"

City of Milwaukee

Department of Public Works

Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC.
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

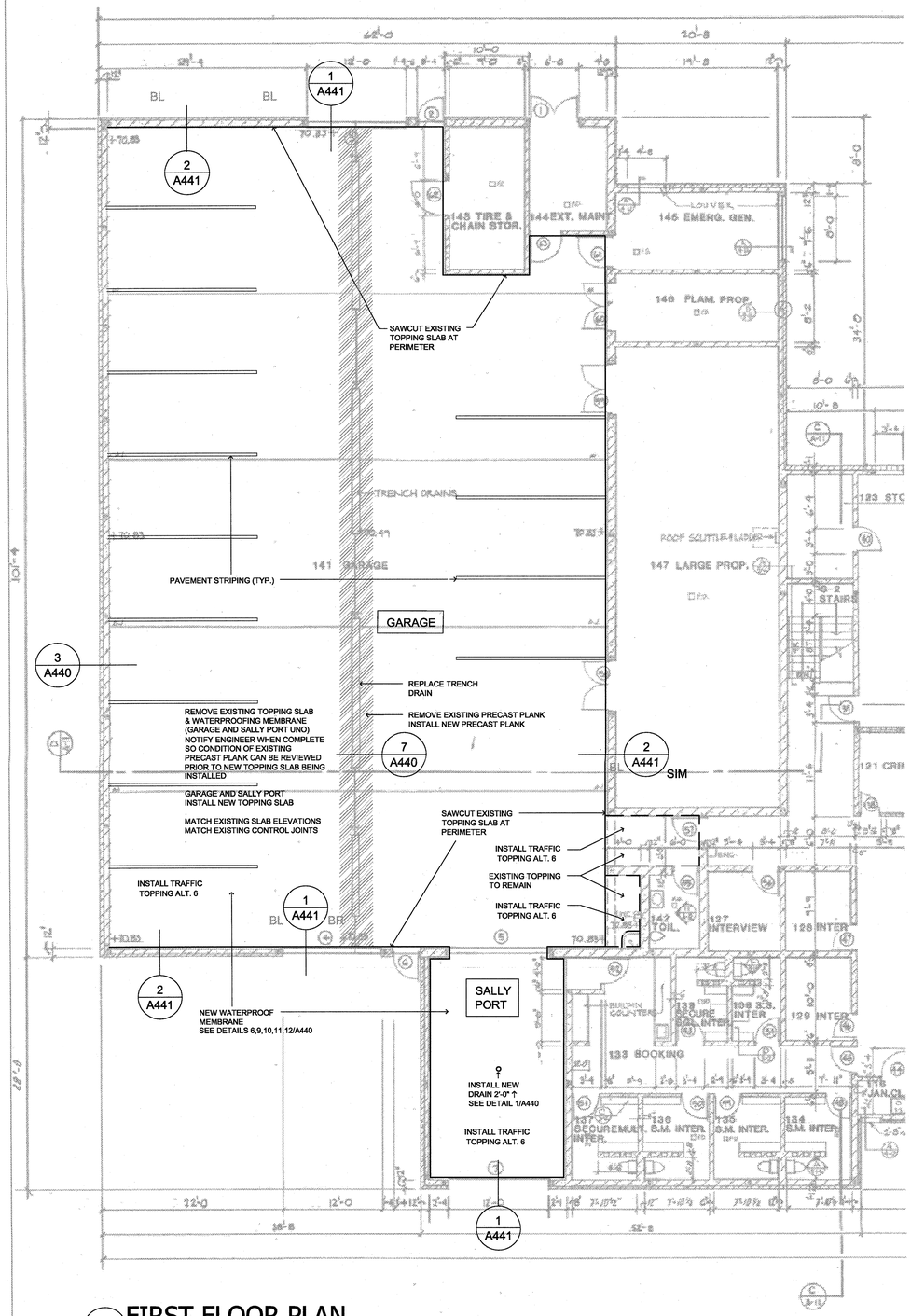
BASEMENT PLAN

COMM. NO.	1203-005-004
SCALE	1/8"=1'-0"
DATE	JANUARY 9, 2014
DRAWN	D.CESARZ

CONSTRUCTION DOCUMENTS

A200

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.



1 FIRST FLOOR PLAN
1/8"=1'-0"

G:\1200\1203\005-BAY4 Work\Architecture\Model\GroundFloor.dwg

City of Milwaukee

Department of Public Works

Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA.
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC.
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

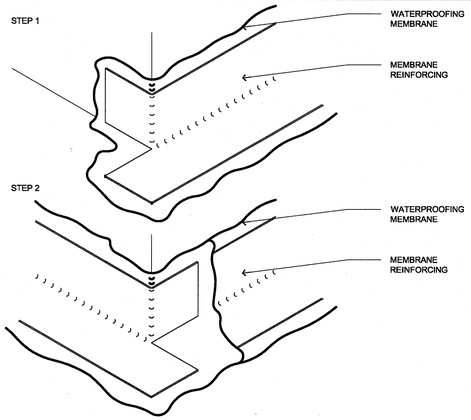
FIRST FLOOR PLAN

COMM. NO.	1203–005–004
SCALE	1/8" =1'–0"
DATE	JANUARY 9, 2014
DRAWN	D.CESARZ

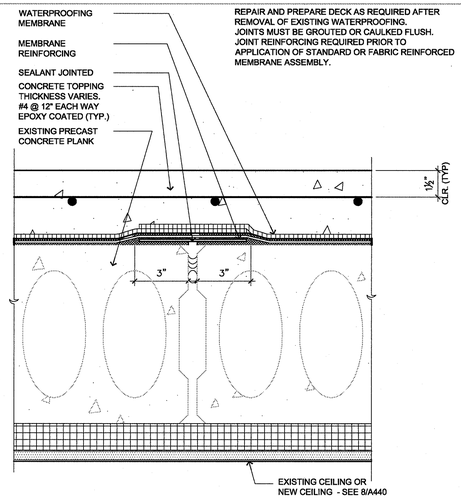
CONSTRUCTION DOCUMENTS

A201

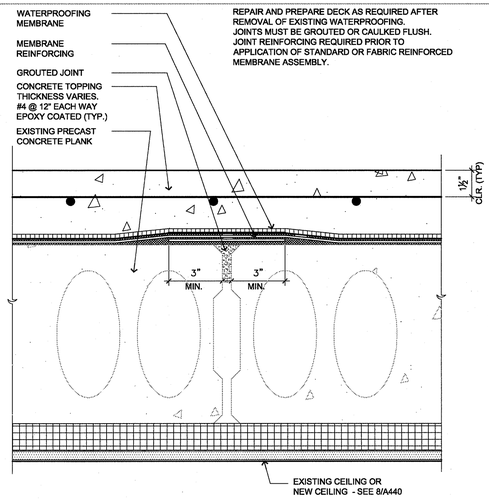
© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.



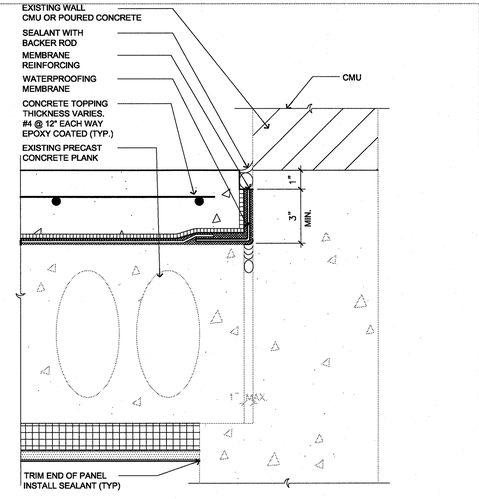
12 TYPICAL OUTSIDE CORNER FLASHING DETAIL
3" = 1'-0"



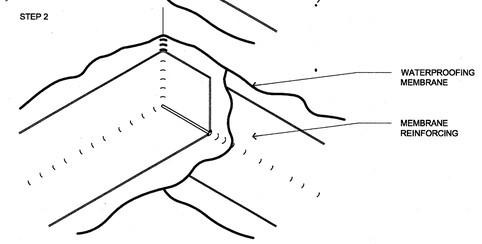
9 TYPICAL JOINT DETAIL
3" = 1'-0"



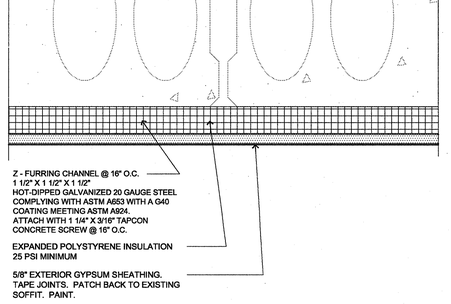
6 TYPICAL JOINT DETAIL
3" = 1'-0"



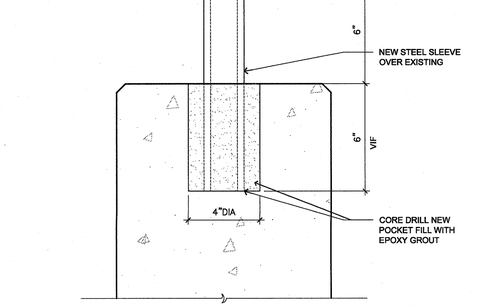
3 TYPICAL WALL FLASHING DETAIL
3" = 1'-0"



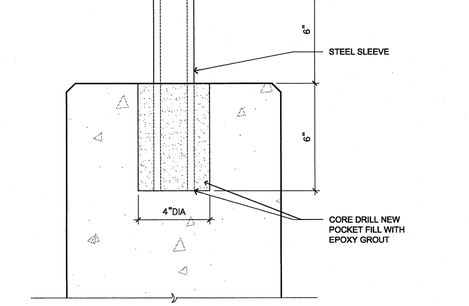
11 TYPICAL INSIDE CORNER FLASHING DETAIL
3" = 1'-0"



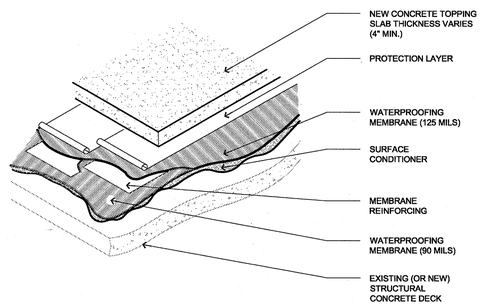
8 TYPICAL CEILING CONSTRUCTION DETAIL
3" = 1'-0"



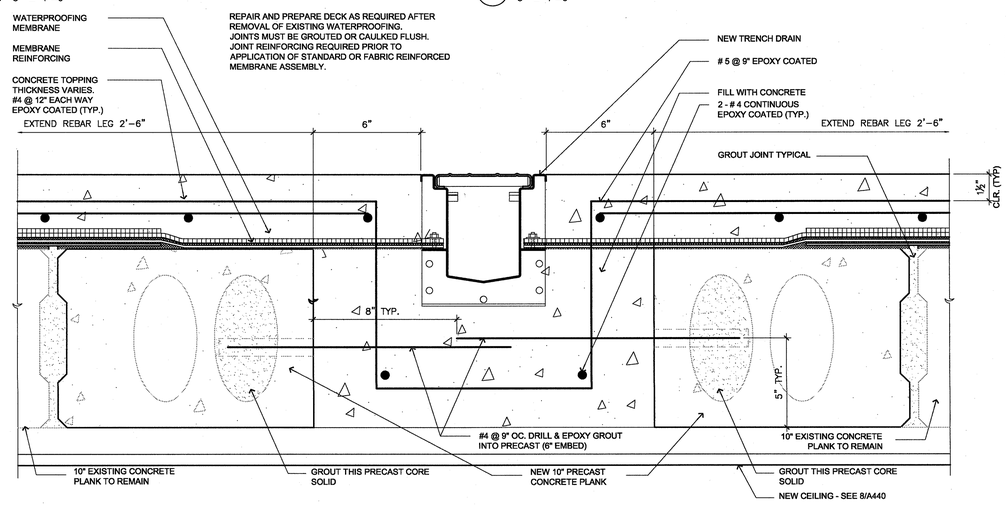
5 PIPE RAILING REPAIR (ALT. # 1 & ALT. # 4A)
3" = 1'-0"



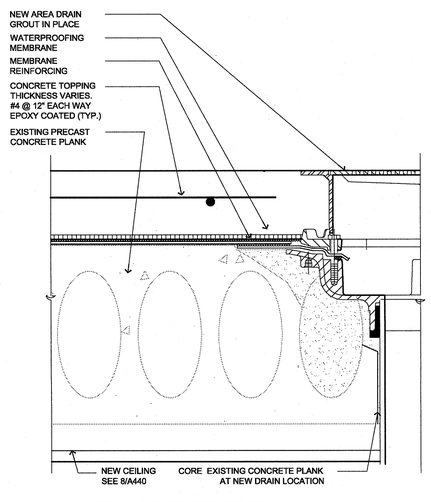
PIPE RAILING REPLACEMENT (ALT. # 4B)



10 TYPICAL WATERPROOFING DETAIL
3" = 1'-0"



7 TYPICAL TRENCH DRAIN AT PRECAST PLANK DETAIL
3" = 1'-0"



1 DRAIN REPLACEMENT DETAIL
3" = 1'-0"

City of Milwaukee
Department of Public Works
Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

DETAILS

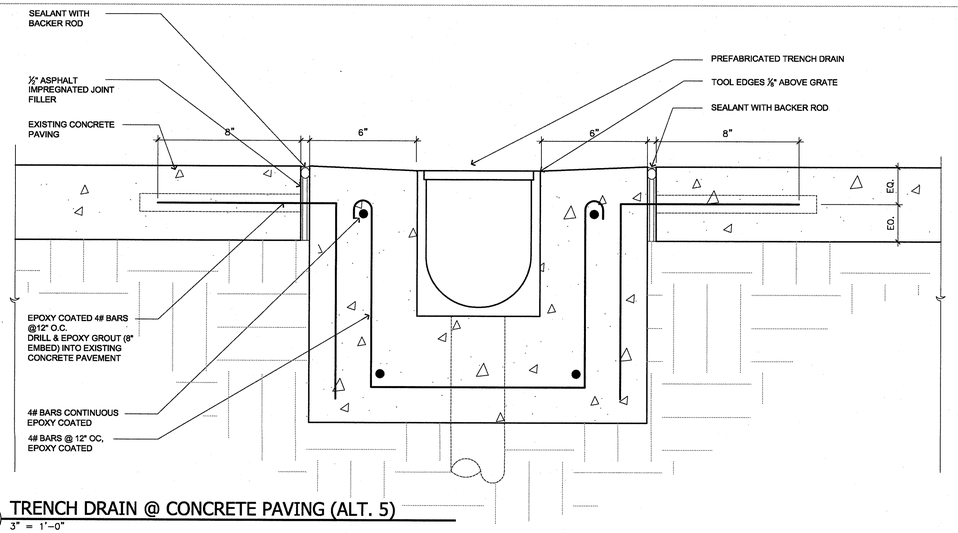
COMM. NO. 1203-005-004
SCALE 3"=1'-0"
DATE JANUARY 9, 2014
DRAWN D.CESARZ

CONSTRUCTION DOCUMENTS

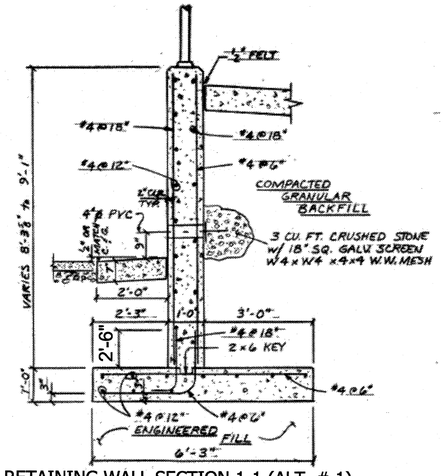
A440

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.

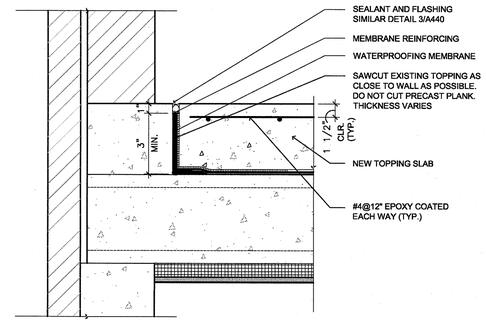
G:\1203\1203-005-004 RM5445139601 Architecture\Vectorworks\Details.dwg



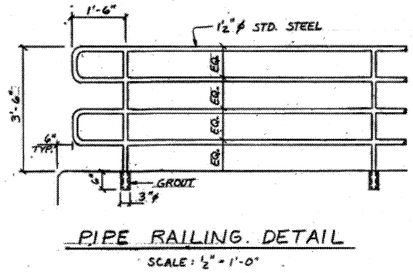
6 TRENCH DRAIN @ CONCRETE PAVING (ALT. 5)
3" = 1'-0"



5 RETAINING WALL SECTION 1-1 (ALT. # 1)
1/2"=1'-0"

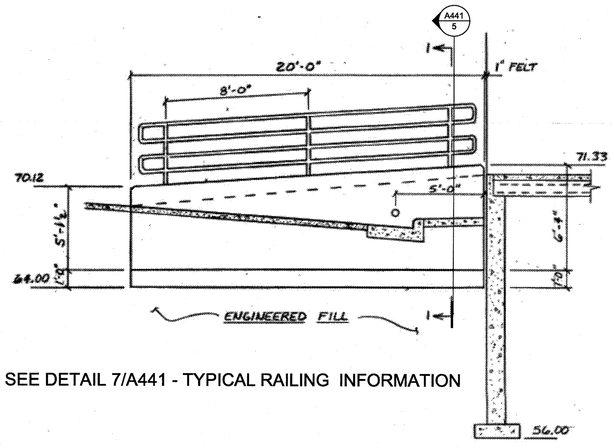


2 TOPPING REPLACEMENT AT BEARING WALL
1 1/2"=1'-0"



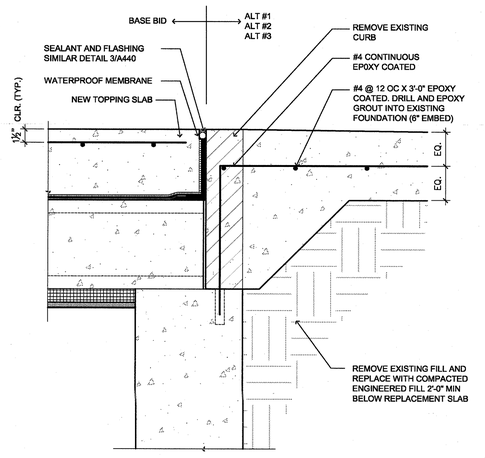
PIPE RAILING. DETAIL
SCALE: ½" = 1'-0"

7 EXISTING PIPE RAIL DETAIL (ALT. # 4B TO MATCH)
1/2"=1'-0"



SEE DETAIL 7/A441 - TYPICAL RAILING INFORMATION

4 EXISTING RETAINING WALL ELEVATION
1/4"=1'-0"



1 TOPPING AND ALTERNATE SLAB REPLACEMENT
1 1/2"=1'-0"

City of Milwaukee
Department of Public Works
Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

DETAILS

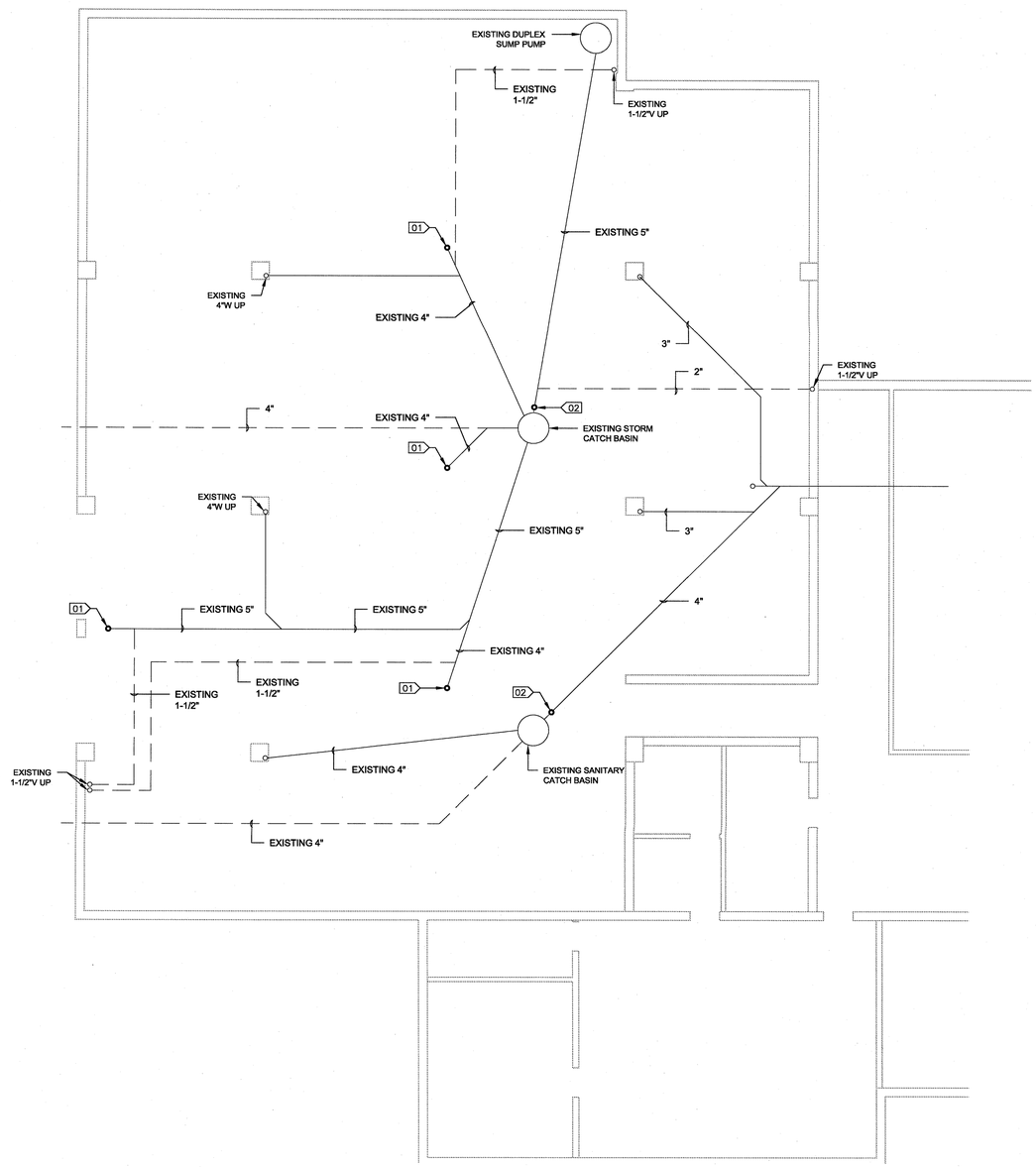
COMM. NO.	1203-005-004
SCALE	VARIES
DATE	JANUARY 9, 2014
DRAWN	D.CESARZ

CONSTRUCTION DOCUMENTS

A441

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.

C:\12005\1203-005-Ext_Work\Architecture\Misc\R\Details.dwg



GENERAL NOTES:

1. THE INFORMATION SHOWN PERTAINING TO EXISTING CONDITIONS SUCH AS LOCATIONS OF FIXTURES, EQUIPMENT, PIPING AND OTHER BUILDING CONDITIONS HAS BEEN BASED ON "AS-BUILT" RECORDS AND FIELD VERIFICATION WITH LIMITED ACCESS. LAYOUT AND DISTRIBUTION OF PIPING SHOWN MAY BE DIFFERENT THAN IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO WORK BEING PERFORMED ON SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF PIPING AND ACCESSORIES. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRESTOPPED. METHOD OF FIRESTOPPING SHALL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
3. PLUMBING PIPING, FIXTURES AND ACCESSORIES INDICATED AS DASHED SHALL BE DEMOLISHED. PROTECT ENDS OF PIPING MAINS FOR FUTURE RECONNECTION.
4. CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING FIXTURES WHICH SUPERCEDES ANY DEMOLITION OR REROUTING INDICATED. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS.
5. ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, UNLESS NOTED OTHERWISE.

KEY NOTES:

01 DEMOLISH EXISTING CONNECTION TO TRENCH DRAIN AND PROTECT PIPING FOR RECONNECTION.

02 EXTEND EXISTING CLEANOUT TO MATCH FINISHED GRADE.

City of Milwaukee

Department of Public Works

Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

FOUNDATION PLUMBING PLAN - DEMOLITION

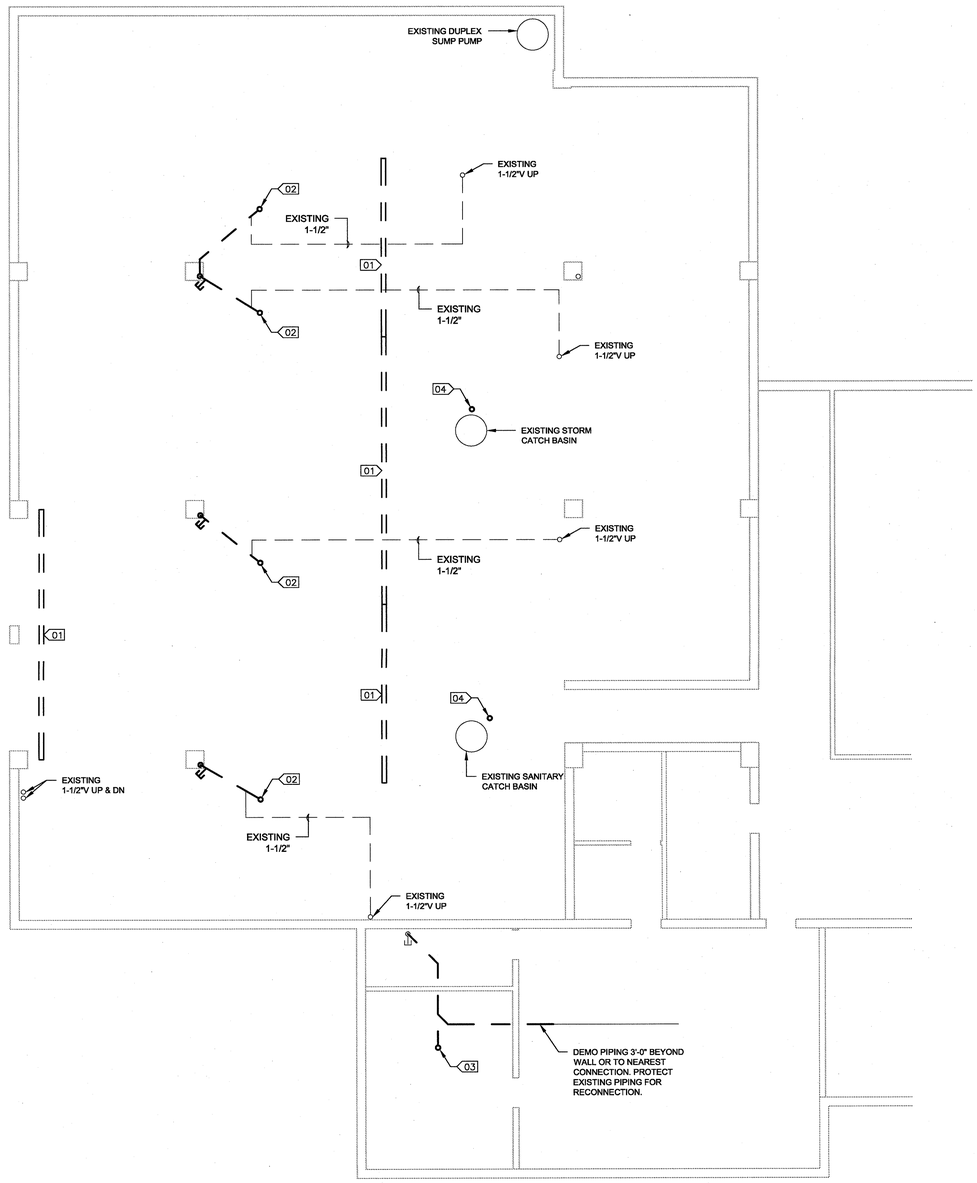
COMM. NO.	1203-005-004
SCALE	1/8" =1'-0"
DATE	JANUARY 9, 2014
DRAWN	J. SCHUETTE

CONSTRUCTION DOCUMENTS

P100

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.

G:\1203\1203-005-004_Work\Drafting\Revit\P201-1203-005-004.dwg



GENERAL NOTES:

1. THE INFORMATION SHOWN PERTAINING TO EXISTING CONDITIONS SUCH AS LOCATIONS OF FIXTURES, EQUIPMENT, PIPING AND OTHER BUILDING CONDITIONS HAS BEEN BASED ON "AS-BUILT" RECORDS AND FIELD VERIFICATION WITH LIMITED ACCESS. LAYOUT AND DISTRIBUTION OF PIPING SHOWN MAY BE DIFFERENT THAN IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO WORK BEING PERFORMED ON SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF PIPING AND ACCESSORIES. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRESTOPPED. METHOD OF FIRESTOPPING SHALL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
3. PLUMBING PIPING, FIXTURES AND ACCESSORIES INDICATED AS DASHED SHALL BE DEMOLISHED. PROTECT ENDS OF PIPING MAINS FOR FUTURE RECONNECTION.
4. CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING FIXTURES WHICH SUPERCEDES ANY DEMOLITION OR REROUTING INDICATED. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS.
5. ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, UNLESS NOTED OTHERWISE.

KEY NOTES:

01 DEMOLISH TRENCH DRAIN

02 DEMOLISH PIPING BACK TO CONNECTION AT FLOOR. CONTRACTOR SHALL CUT CONCRETE AS REQUIRED TO ALLOW FOR RECONNECTION OF UNDERSLAB PIPING. PROTECT ENDS OF VENT PIPING. VERIFY EXISTING HEAT TRACE IS IS GOOD SHAPE AND PROPER WORKING CONDITION. HEAT TRACE SHALL BE REMOVED AND REINSTALLED ON NEW PIPING.

03 DEMOLISH FLOOR DRAIN AND PIPING BACK TO CLEAN OUT ON THE VERTICAL. PROTECT PIPING FOR RECONNECTION. PROTECT EXISTING COMPUTER EQUIPMENT DURING CONSTRUCTION.

04 EXTEND EXISTING CLEANOUT TO MATCH FINISHED GRADE.

City of Milwaukee

Department of Public Works

Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

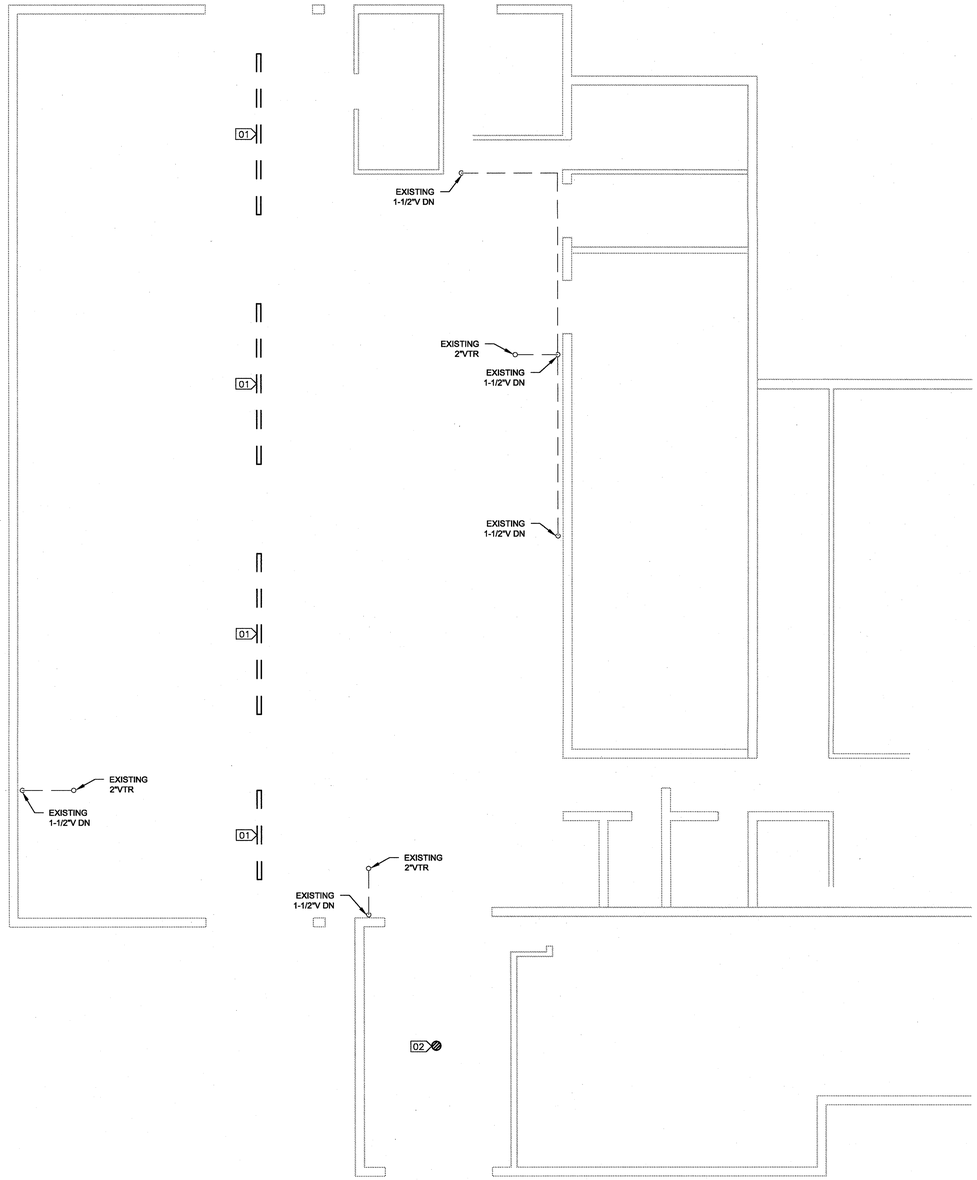
BASEMENT PLUMBING PLAN - DEMOLITION

COMM. NO.	1203-005-004
SCALE	1/8" =1'-0"
DATE	JANUARY 9, 2014
DRAWN	J. SCHUETTE

CONSTRUCTION DOCUMENTS

P101

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.



GENERAL NOTES:

1. THE INFORMATION SHOWN PERTAINING TO EXISTING CONDITIONS SUCH AS LOCATIONS OF FIXTURES, EQUIPMENT, PIPING AND OTHER BUILDING CONDITIONS HAS BEEN BASED ON "AS-BUILT" RECORDS AND FIELD VERIFICATION WITH LIMITED ACCESS. LAYOUT AND DISTRIBUTION OF PIPING SHOWN MAY BE DIFFERENT THAN IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO WORK BEING PERFORMED ON SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF PIPING AND ACCESSORIES. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRESTOPPED. METHOD OF FIRESTOPPING SHALL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
3. PLUMBING PIPING, FIXTURES AND ACCESSORIES INDICATED AS DASHED SHALL BE DEMOLISHED. PROTECT ENDS OF PIPING MAINS FOR FUTURE RECONNECTION.
4. CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING FIXTURES WHICH SUPERCEDES ANY DEMOLITION OR REROUTING INDICATED. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS.
5. ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, UNLESS NOTED OTHERWISE.

KEY NOTES:

01 DEMOLISH TRENCH DRAIN AND PIPING.

02 DEMOLISH FLOOR DRAIN AND PIPING. PROTECT EXISTING COMPUTER EQUIPMENT ON FLOOR BELOW DURING CONSTRUCTION.

City of Milwaukee

Department of Public Works

Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

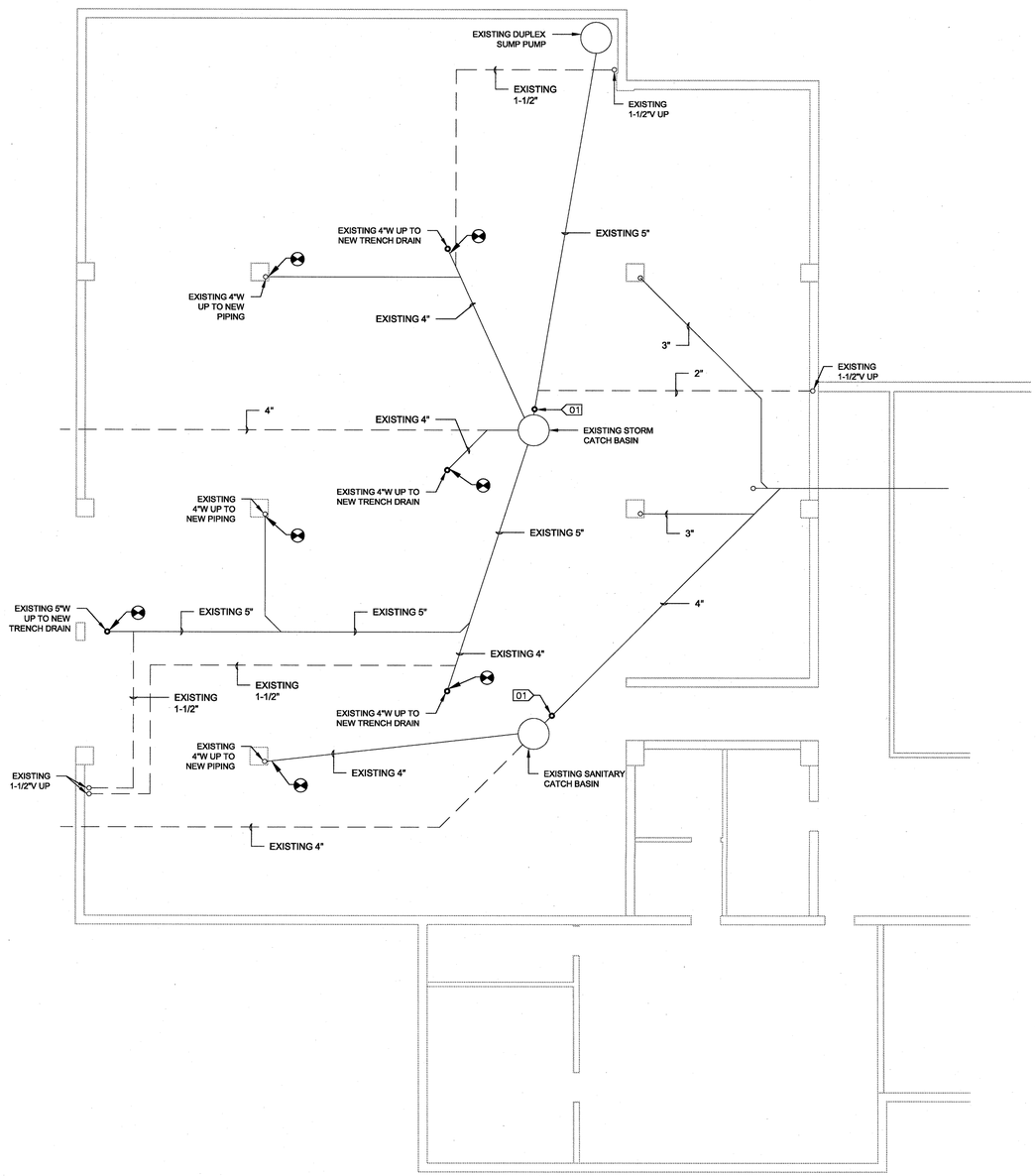
FIRST FLOOR PLUMBING PLAN - DEMOLITION

COMM. NO.	1203-005-004
SCALE	1/8" =1'-0"
DATE	JANUARY 9, 2014
DRAWN	J. SCHUETTE

CONSTRUCTION DOCUMENTS

P102

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.



GENERAL NOTES:

1. THE INFORMATION SHOWN PERTAINING TO EXISTING CONDITIONS SUCH AS LOCATIONS OF FIXTURES, EQUIPMENT, PIPING AND OTHER BUILDING CONDITIONS HAS BEEN BASED ON "AS-BUILT" RECORDS AND FIELD VERIFICATION WITH LIMITED ACCESS. LAYOUT AND DISTRIBUTION OF PIPING SHOWN MAY BE DIFFERENT THAN IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO WORK BEING PERFORMED ON SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF PIPING AND ACCESSORIES. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRESTOPPED. METHOD OF FIRESTOPPING SHALL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
3. PLUMBING PIPING, FIXTURES AND ACCESSORIES INDICATED AS DASHED SHALL BE DEMOLISHED. PROTECT ENDS OF PIPING MAINS FOR FUTURE RECONNECTION.
4. CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING FIXTURES WHICH SUPERCEDES ANY DEMOLITION OR REROUTING INDICATED. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS.
5. ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, UNLESS NOTED OTHERWISE.
6. SANITARY WASTE AND VENT PIPING SHALL BE SOLID-WALL PVC PIPE: ASTM D2665, DRAIN, WASTE AND VENT

KEY NOTES:

01 EXTEND EXISTING CLEANOUT TO MATCH FINISHED GRADE.

City of Milwaukee

Department of Public Works

Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

hga.
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

FOUNDATION PLUMBING PLAN

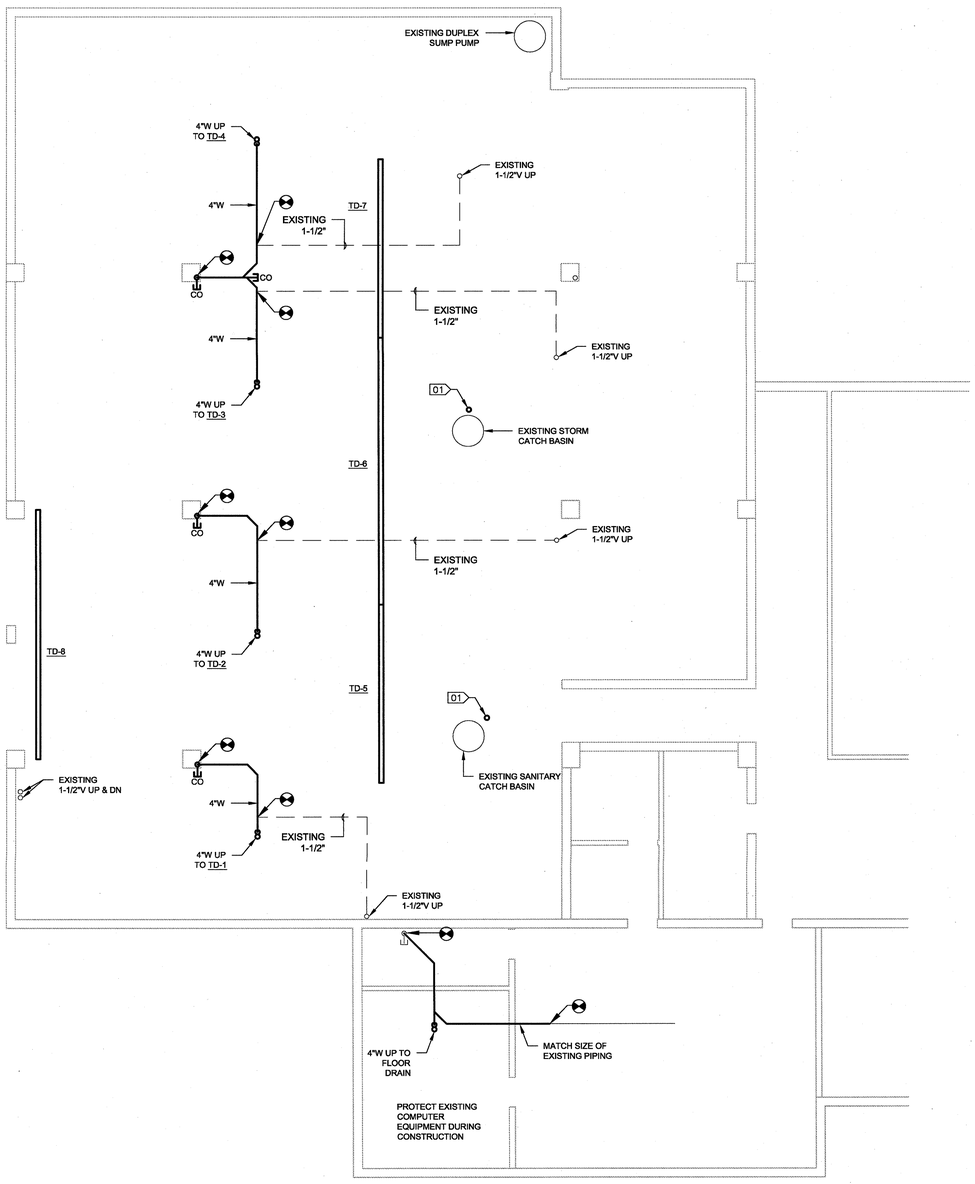
COMM. NO.	1203-005-004
SCALE	1/8" =1'-0"
DATE	JANUARY 9, 2014
DRAWN	J. SCHUETTE

CONSTRUCTION DOCUMENTS

P200

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.

G:\1203\1203-005-004\Revit\Plumbing Models\P201-1203-005-004.rvt



GENERAL NOTES:

1. THE INFORMATION SHOWN PERTAINING TO EXISTING CONDITIONS SUCH AS LOCATIONS OF FIXTURES, EQUIPMENT, PIPING AND OTHER BUILDING CONDITIONS HAS BEEN BASED ON "AS-BUILT" RECORDS AND FIELD VERIFICATION WITH LIMITED ACCESS. LAYOUT AND DISTRIBUTION OF PIPING SHOWN MAY BE DIFFERENT THAN IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO WORK BEING PERFORMED ON SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF PIPING AND ACCESSORIES. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRESTOPPED. METHOD OF FIRESTOPPING SHALL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
3. PLUMBING PIPING, FIXTURES AND ACCESSORIES INDICATED AS DASHED SHALL BE DEMOLISHED. PROTECT ENDS OF PIPING MAINS FOR FUTURE RECONNECTION.
4. CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING FIXTURES WHICH SUPERCEDES ANY DEMOLITION OR REROUTING INDICATED. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS.
5. ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, UNLESS NOTED OTHERWISE.
6. SANITARY WASTE AND VENT PIPING SHALL BE SOLID-WALL PVC PIPE: ASTM D2665, DRAIN, WASTE AND VENT
7. SEE P202 FOR THE TRENCH DRAIN SCHEDULE.

KEY NOTES:

01 EXTEND EXISTING CLEANOUT TO MATCH FINISHED GRADE.

City of Milwaukee

Department of Public Works

Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

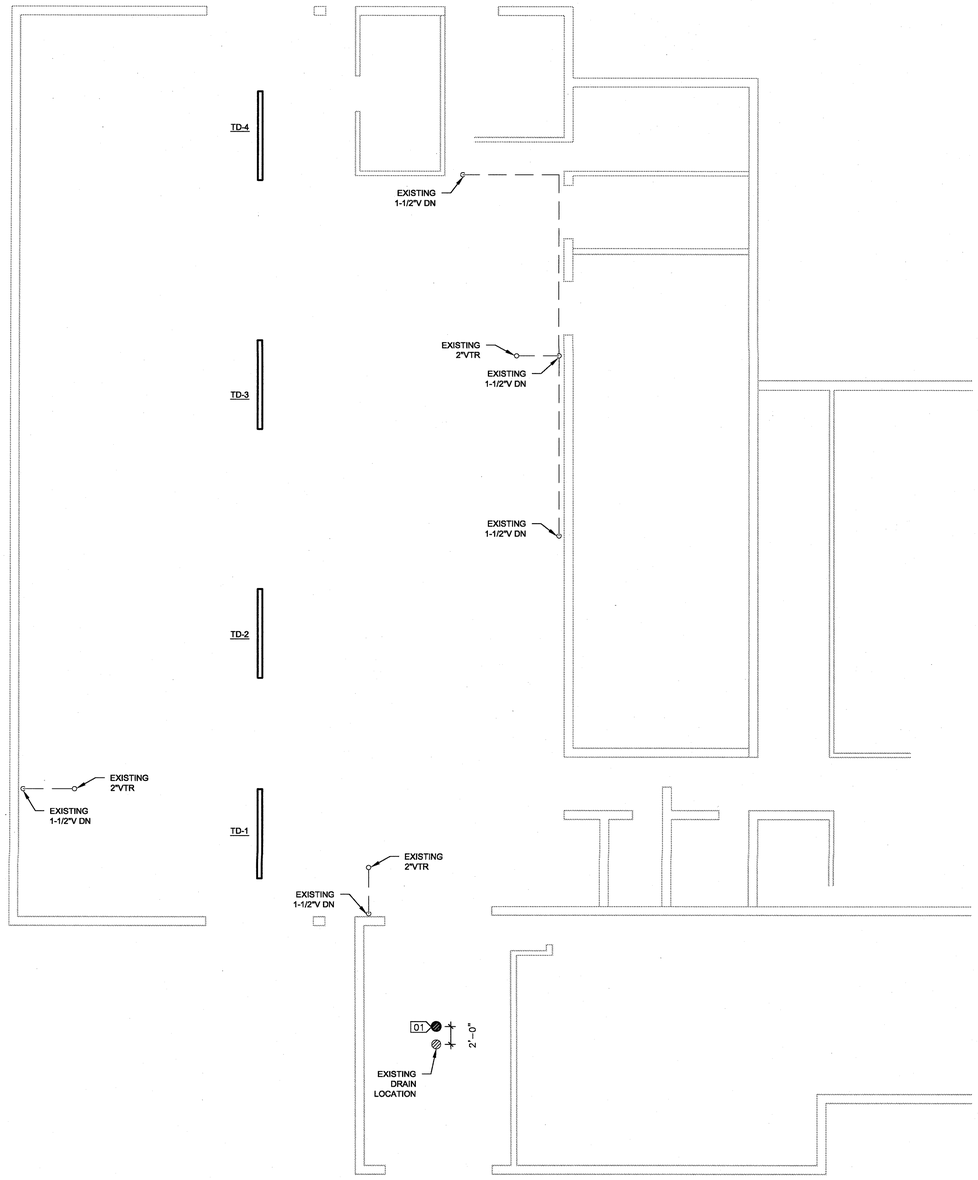
BASEMENT PLUMBING PLAN

COMM. NO.	1203-005-004
SCALE	1/8" =1'-0"
DATE	JANUARY 9, 2014
DRAWN	J. SCHUETTE

CONSTRUCTION DOCUMENTS

P201

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.



GENERAL NOTES:

1. THE INFORMATION SHOWN PERTAINING TO EXISTING CONDITIONS SUCH AS LOCATIONS OF FIXTURES, EQUIPMENT, PIPING AND OTHER BUILDING CONDITIONS HAS BEEN BASED ON "AS-BUILT" RECORDS AND FIELD VERIFICATION WITH LIMITED ACCESS. LAYOUT AND DISTRIBUTION OF PIPING SHOWN MAY BE DIFFERENT THAN IN THE FIELD. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO WORK BEING PERFORMED ON SITE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF PIPING AND ACCESSORIES. ALL PENETRATIONS THROUGH FIRE RATED WALLS AND FLOORS SHALL BE PROPERLY FIRESTOPPED. METHOD OF FIRESTOPPING SHALL BE REVIEWED AND APPROVED BY ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
3. PLUMBING PIPING, FIXTURES AND ACCESSORIES INDICATED AS DASHED SHALL BE DEMOLISHED. PROTECT ENDS OF PIPING MAINS FOR FUTURE RECONNECTION.
4. CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING FIXTURES WHICH SUPERCEDES ANY DEMOLITION OR REROUTING INDICATED. NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS.
5. ITEMS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE, UNLESS NOTED OTHERWISE.
6. SANITARY WASTE AND VENT PIPING SHALL BE SOLID-WALL PVC PIPE: ASTM D2665, DRAIN, WASTE AND VENT

KEY NOTES:

01 INSTALL WATTS FD-100-B FLOOR DRAIN, 8" STRAINER OR EQUAL. LOCATE FLOOR DRAIN 2'-0" FROM EXISTING LOCATION. PROTECT EXISTING COMPUTER EQUIPMENT ON FLOOR BELOW DURING CONSTRUCTION.

TRENCH DRAIN SCHEDULE (TD)

	BODY					GRATE							
TYPE	MATERIAL	OUTLET	OUTLET LOCATION	OUTLET SIZE (INCHES)	WIDTH (INCH)	WIDTH (INCH)	MATERIAL	FINISH	TRAP MATERIAL	LENGTH (INCH)	MANUFACTURER	MODEL	REMARKS
TD-1	STAINLESS STEEL	BOTTOM	CENTER	4	7	5.5	DUCTILE	EPOXY	PVC	120	ZURN	Z890-KC-BDC	SEE NOTE 1.
TD-2	STAINLESS STEEL	BOTTOM	CENTER	4	7	5.5	DUCTILE	EPOXY	PVC	120	ZURN	Z890-KC-BDC	SEE NOTE 1.
TD-3	STAINLESS STEEL	BOTTOM	CENTER	4	7	5.5	DUCTILE	EPOXY	PVC	120	ZURN	Z890-KC-BDC	SEE NOTE 1.
TD-4	STAINLESS STEEL	BOTTOM	CENTER	4	7	5.5	DUCTILE	EPOXY	PVC	120	ZURN	Z890-KC-BDC	SEE NOTE 1.
TD-5	CAST IRON	BOTTOM	CENTER	4	10.25	6	CAST IRON	HEEL PROOF	PVC	240	ZURN	Z664	
TD-6	CAST IRON	BOTTOM	CENTER	4	10.25	6	CAST IRON	HEEL PROOF	PVC	360	ZURN	Z664	
TD-7	CAST IRON	BOTTOM	CENTER	4	10.25	6	CAST IRON	HEEL PROOF	PVC	240	ZURN	Z664	
TD-8	CAST IRON	BOTTOM	CENTER	5	10.25	6	CAST IRON	HEEL PROOF	PVC	336	ZURN	Z664	

NOTES: 1. TRENCH DRAIN TO BE MANUFACTURERED FOR A 4" CONCRETE TOPPING IN LIEU OF THE REGULARLY FURNISHED 2". TRENCH DRAIN TO BE FABRICATED WITH SEEPAGE HOLES

City of Milwaukee
Department of Public Works
Infrastructure Services Division
Facilities Development & Management Section

6TH DISTRICT POLICE STATION
GARAGE FLOORING RESTORATION
3006 SOUTH 27TH STREET
MILWAUKEE, WI

PROJECT NO. RM5445139601

REVISION HISTORY - THIS SHEET

HGA
Architecture | Engineering | Planning
HGA Architects and Engineers, LLC
333 East Erie Street
Milwaukee, Wisconsin USA 53202-6005
Telephone 414.278.8200 Facsimile 414.278.7734

FIRST FLOOR PLUMBING PLAN

COMM. NO. 1203-005-004
SCALE 1/8" =1'-0"
DATE JANUARY 9, 2014
DRAWN J. SCHUETTE

CONSTRUCTION DOCUMENTS

P202

© COPYRIGHT HAMMEL GREEN AND ABRAHAMSON, INC.

G:\1203\1203\005-04\Work\Plumbing\Model\P201-1203-005-04.dwg
Plot Date: ###