STATE OF NEW YORK
OFFICE OF GENERAL SERVICES
DESIGN AND CONSTRUCTION GROUP
THE GOVERNOR NELSON A. ROCKEFELLER
EMPIRE STATE PLAZA
ALBANY, NY 12242

ADDENDUM NO. 12 TO PROJECT NO. 44578

CONSTRUCTION WORK - PLA
MAJOR BUILDING RENOVATIONS FOR THE
MANHATTAN FORENSIC
RELOCATION
MANHATTAN PSYCHIATRIC CENTER
600 EAST 125th STREET
WARDS ISLAND, NY 10035

October 20, 2015

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

DIVISION 0 DOCUMENTS

1. DOCUMENT 007322 SUPPLEMENTARY CONDITIONS – WORKERS' COMPENSATION AND LIABILITY: Discard the Document bound in the Project Manual and substitute the attached Document (page 007322-1) noted "REVISED 10/16/2015,

DIVISION 1 SPECIFICATIONS

2. Page 011000-11, ARTICLE 1.01 WORK COVERED BY THE CONTRACT DOCUMENTS: Add the following Paragraph:
   "R. Telecommunications: The General Contractor shall provide and install the following Telecommunications work under this Contract 44578: See also the Telecom Cable infrastructure and Component Installation Responsibility Matrix in Drawing Volume 5 Drawing T-001.
      1. Telecom overhead cabletray, vertical cabletray, J-hooks, backboxes, conduit stub-ups, poke-thru's, under carpet cable systems, vertical cores with sleeves, horizontal cores with sleeves and all other pathway components to support voice, video and data.
      2. MIS Room, I.T. Room and other telecom space backboards, data racks, patch panels, termination blocks, fiber distribution cabinets, horizontal cable management and vertical cable management components to support voice, video and data.
      3. Plenum rated UTP multipair copper backbone cable between the existing Telephone Room and the new MIS room, between the existing PBX room and the new MIS room and between the new MIS room and the new voice data and video intermediate distribution point I.T. rooms.
      4. Plenum rated fiber optic backbone cable between the existing Telephone Room and the new MIS room, between the existing PBX room and the new MIS room and between the new MIS room and the new voice data and video intermediate distribution point I.T. rooms.

5. Plenum rated RG-11 coaxial backbone cable between the existing Video Distribution Room and the new MIS room and between the existing Video Distribution Room and the new voice data and video intermediate distribution point I.T. rooms.
6. Outdoor, underground, plenum rated indoor/outdoor fiber optic cable link (via existing conduit), wall mount enclosure and media conversion and transition hardware to support the outdoor electrical equipment area voice and data.
7. Plenum rated 4-pair category 6 and plenum rated coaxial RG-6 horizontal distribution cable and communication outlet components to support voice, video and data.
8. Plenum rated 4-pair category horizontal distribution cable and communication outlet components to support overhead wireless local area network access points.
9. Plenum rated 4-pair category 6 cabling, looped through a Nurse Station Toggle Switch backbox enroute to the telephone device backbox at each Patient Telephone location.
10. Terminate both ends of all cables.
11. Test all backbone and horizontal distribution cables.
12. Label both ends of all backbone and horizontal distribution cables as well as all communication outlets and all ports of each piece of termination hardware.
13. Provide a comprehensive Telecommunications Grounding System complete with grounding bus bars, rack/cabinet busbars, a main telecommunications bonding conductor, telecom bonding backbones, a grounding equalizer and in-room bonding conductors.
14. Complete as-built outlet location, as-built IT Room location and cable test result documentation for the entire Telecommunications cable infrastructure."

TELECOMMUNICATIONS SPECIFICATIONS

3. SECTION 271500 COMMUNICATIONS HORIZONTAL CABLING: Discard the Section bound in the Project Manual and substitute the attached Section (pages 271500-1 thru 271500-12) noted "REVISED 10/16/2015".

COMMON DRAWINGS (G SERIES)

4. Addendum Drawimngs:
   a. Drawing No. G-002-6, noted "ADDENDUM DRAWING 10/16/2015" accompanies this Addendum and forms part of the Contract Documents.

ARCHITECTURAL DRAWINGS

5. Drawing No. A-115-2, FIFTEENTH FLOOR PLAN:
   a. Change detail tag "6/A-810" to read "6/A-810-2", and move from its current location along Col. Line H between Col. Lines 5 and 5.5 to the location between Col. lines 5 and 6.
   b. Use section detail tag "6/A-810-A"at Col. Line H between Col. Lines 5.5 and 6.

6. Drawing No.A-117-2: Remove detail reference 3/A907A-2 located between col.lines 8 and 9 adjacent tocol. line L.

7. Drawing No. A-118-2: Remove reference tag 4/A-904-2 located between col. lines 18A and 19 along railings (3 total).

8. Drawing No. A-118-2: Remove all detail references 3/A-907A-2 between col. lines 5.9 and 9 replace it with Addendum drawing A-907B-2.

9. Drawing No. A-819-2, Detail 13: Delete perforated drain pipe and associated filter fabric in their entirety.

10. Drawing No. A-907A-2, Detail 1: Delete this Detail in its entirety. Refer to Addendum Drawing No. A-907B-2 dated 10/21/2015 for replacement detail.

11. Addendum Drawings:
    a. Drawing No. A-907B-2, noted "ADDENDUM DRAWING 10/16/2015" accompanies this Addendum and forms part of the Contract Documents.

HVAC DRAWINGS

12. Drawing No. M-638-2, VARIABLE AIR VOLUME BOX SCHEDULE BUILDING 102-4:
    a. VAV-102-4-1-15 is listed (3) three times in the schedule, only one is required.
    b. Change the "Room 402A" location of VAV-102-4-1-15 to read "Room 442A".

CIVIL DRAWINGS

13. Revised Drawings:
    a. Drawing Nos. C-120, C-121, C-504, C-506, C-507, and C-508 noted "REVISED DRAWING 10/16/2015" accompany this Addendum and replaces the same numbered originally issued drawing, and any same numbered previously issued Revised Drawings.

TELECOMMUNICATIONS DRAWINGS

14. Revised Drawings:
    a. Drawing No. T-001 noted "REVISED DRAWING 10/16/2015" accompanies this Addendum and replaces the same numbered originally issued drawing, and any same numbered previously issued Revised Drawings.

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction

AD/JRC:jc

DOCUMENT 007322

SUPPLEMENTARY CONDITIONS - WORKERS' COMPENSATION AND LIABILITY

This supplement modifies the General Conditions. Where any part of the General Conditions is modified by this supplement, the unaltered provision of that part shall remain in effect.

ARTICLE 19 - INSURANCE - BUILDER'S RISK, LIABILITY AND WORKERS' COMPENSATION

Add the following paragraphs to 19.2.1:

> The contractor agrees that pursuant to WCL Section 141-b, this contract may be terminated if it is determined that at the time of either the bid submission or contract award, the contractor was, in fact, debarred by WCL Section 141-b, or was a substantially owned affiliate of a debarred contractor.
>
> Additionally, the contractor agrees that it must replace, at no additional charge to the State, any subcontractor who the State or the contractor learns was debarred by WCL Section 141-b prior to or during the contract.

Replace paragraph 19.2.2 with the following:

> 19.2.2 Commercial General Liability, and if necessary, Commercial Umbrella Liability Insurance with a limit of not less than $10,000,000 each occurrence. Such liability shall be written on the ISO occurrence form CG 00 01, or a substitute form providing equivalent coverages and shall cover liability resulting in Bodily Injury, Property Damage, Personal Injury or loss of use arising from premises operations, independent contractors, products-completed operations, broad form property damage, personal & advertising injury, cross liability coverage, liability assumed in a contract (including the tort liability of another assumed in a contract) and explosion, collapse & underground coverage.
>
> If such insurance contains an aggregate limit, it shall apply separately on a per job, per location basis.

END OF DOCUMENT

SECTION 271500

COMMUNICATIONS HORIZONTAL CABLING

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

B. Division 27, Section 271100 "Communications Equipment Room Fittings."

C. Division 27, Section 271300 "ISP Communications Backbone Cabling."

1.02 SUMMARY

A. Section Includes:
1. 4 UTP copper cabling.
2. RG6 coaxial CATV drop cabling
3. Cable connecting hardware, patch panels, and cross-connects.
4. Telecommunications outlet/connectors.
5. Cabling system identification products.
6. Cable management system.

B. All telecommunications and electrical work identified in this specification section will be provided by the General Contractor. Provide and install all telecom related horizontal distribution cabling, terminations, testing, labeling, documentation and a cable management system as well as all pathway components to include but not limited to wall, floor and ceiling penetrations, wall, floor and ceiling cores, core sleeves, sleeve seals, firestop, junction boxes, backboxes (to include empty backboxes shown on plan), conduit stub-ups (to include empty conduit stub-ups shown on plan), cable supports, vertical cabletray, overhead cabletray, poke-through devices, the telecom portion of under carpet cable systems and any other items as specified herein.

1.03 DEFINITIONS

A. BICSI: Building Industry Consulting Service International.

B. Cross-Connect: A facility enabling the termination of cable elements and their interconnection or cross-connection.

C. EMI: Electromagnetic interference.

D. IDC: Insulation displacement connector.

E. LAN: Local area network.

F. Outlet/Connectors: A connecting device in the work area on which horizontal cable or outlet cable terminates.

G. RCDD: Registered Communications Distribution Designer.

H. UTP: Unshielded twisted pair.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordinate layout and installation of telecommunications cabling with Owner's IT department representatives.

B. Coordinate telecommunications outlet/connector locations with location of power receptacles at each work area.

1.05 ACTION SUBMITTALS

A. Product Data: For each type of product.

1. For Horizontal Distribution cable, include the following installation data for each type used:

   a. Nominal OD.
   b. Minimum bending radius.
   c. Maximum pulling tension.

B. Shop Drawings:

1. System Labeling Schedules: Electronic copy of labeling schedules, in software and format selected by Owner.
2. Cabling administration drawings and printouts.
3. Wiring diagrams to show typical wiring schematics, including the following:

   a. Cross-connects.
   b. Patch panels.
   c. Patch cords.

4. Patch panels. Detail mounting assemblies, and show elevations and physical relationship between the installed components.

C. Samples: For workstation outlets, jacks, jack assemblies, in specified finish, one for each size and outlet configuration and faceplates for color selection and evaluation of technical features.

1.06 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified layout technician, installation supervisor, and field inspector.

B. Source quality-control reports.

C. Field quality-control reports.

1.07 CLOSEOUT SUBMITTALS

A. Maintenance Data: For connectors to include in maintenance manuals.

1.08 MAINTENANCE MATERIAL SUBMITTALS

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

1. Horizontal Distribution Patch Panels: One of each type.
2. Telecommunication Outlets / Faceplate and Jacks: Two of each type.

1.09 QUALITY ASSURANCE

A. Installer Qualifications: Cabling Installer must have personnel certified by BICSI on staff.

1. Layout Responsibility: Preparation of Shop Drawings, Cabling Administration Drawings, and field testing program development by an RCDD.
2. Installation Supervision: Installation shall be under the direct supervision of a Registered Technician, who shall be present at all times when Work of this Section is performed at Project site.
3. Testing Supervisor: Currently certified by BICSI as an RCDD to supervise on-site testing.

1.10 DELIVERY, STORAGE, AND HANDLING

A. Test cables upon receipt at Project site.

1. Test each pair of UTP cable for open and short circuits.

PART 2 - PRODUCTS

2.01 HORIZONTAL CABLING DESCRIPTION

A. Horizontal cable and its connecting hardware provide the means of transporting signals between the telecommunications outlet/connector and the horizontal cross-connect located in the communications equipment room. This cabling and its connecting hardware are called a "permanent link," a term that is used in the testing protocols.

1. Horizontal cabling shall contain no more than one transition point or consolidation point between the horizontal cross-connect and the telecommunications outlet/connector.
2. Bridged taps and splices shall not be installed in the horizontal cabling.

3. In accordance with Article 100 of NFPA 70 National Electrical Code any backbone and or horizontal telecom distribution cabling installed in conduit imbedded in concrete slabs or beneath concrete slabs that are in direct contact with the earth must be rated for wet location applications. This includes 4-pair UTP copper station cable. In addition, wet location rated telecom cable that exits the under-slab or in-slab conduit into a plenum space must either be installed in an enclosed raceway system from end to end or the telecom cable must be an indoor/outdoor type with a Communications Multipurpose Plenum (CMP) rating and employ a gel fill or dry-block fill to meet wet location application requirements.

B. The maximum allowable horizontal cable length is 295 feet (90 m). This maximum allowable length does not include an allowance for the length of 16 feet (4.9 m) to the workstation equipment or in the horizontal cross-connect.

C. Cable routing for Patient Telephone communication outlets include routing category 6 cabling through the Patient Telephone's associated Nurse Station Toggle Switch backbox, creating a loop/coil in the Toggle Switch backbox (un-cut) and continuing on to the respective Patient Telephone location and creating a cable coil. At the Patient Telephone location the Category-6 cable shall be terminated on a jack without a faceplate for testing. For detailed requirements see project drawings T-001, T-501 and T-502.

D. Undercarpet cabling and components shall be provided as indicated on the associated project drawings.

E. Where telecom outlets cannot be installed in a flush mount faceplate arrangement provide and install surface raceway for any/all exposed cabling and an appropriately sized surface mount backbox as required.

2.02 PERFORMANCE REQUIREMENTS

A. General Performance: Horizontal cabling system shall comply with transmission standards in TIA/EIA-568-C.1 when tested according to test procedures of this standard.

B. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

1. Flame-Spread Index: 25 or less.
2. Smoke-Developed Index: 50 or less.

C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

D. Grounding: Comply with J-STD-607-A.

2.03 UTP CABLE

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. ADC.
2. Belden Inc.
3. Berk-Tek; a Nexans company.
4. CommScope, Inc.
5. Draka Cableteq USA.
6. Genesis Cable Products; Honeywell International, Inc.
7. Mohawk; a division of Belden Networking, Inc.
8. Superior Essex Inc.
9. SYSTIMAX Solutions; a CommScope, Inc. brand.
10. 3M Communication Markets Division.
11. Tyco Electronics Corporation; AMP Products.

B. Description: 100-ohm, four-pair UTP.

1. Comply with ICEA S-90-661 for mechanical properties.
2. Comply with TIA/EIA-568-C.1 for performance specifications.
3. Comply with TIA/EIA-568-C.2, Category 6.
4. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 444 and NFPA 70 for the following types:

   a. Communications, Plenum Rated: Type CMP, complying with NFPA 262.

2.04 UTP CABLE HARDWARE

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. ADC.
2. American Technology Systems Industries, Inc.
3. Belden Inc.
4. Dynacom Inc.
5. Hubbell Premise Wiring.
6. Leviton Commercial Networks Division.
7. Molex Premise Networks; a division of Molex, Inc.
8. Panduit Corp.
9. Siemon Co. (The).
10. Tyco Electronics Corporation; AMP Products.

B. General Requirements for Cable Connecting Hardware: Comply with TIA/EIA-568-C.2, IDC type, with modules designed for punch-down caps or tools. Cables shall be terminated with connecting hardware of same category or higher with the exception of RJ-11 6P6C jacks required for Printer outlets.

C. Patch Panel: Modular panels housing multiple-numbered jack units with IDC-type connectors at each jack for permanent termination of pair groups of installed cables.

1. Comply with TIA/EIA 568-C.2, Category 6

2. Number of Jacks per Field: One for each four-pair UTP cable indicated, plus spares and blank positions adequate to suit specified expansion criteria.

D. Jacks and Jack Assemblies: Modular, color-coded, eight-position modular receptacle units with integral IDC-type terminals.

2.05 TELECOMMUNICATIONS OUTLET/CONNECTORS

A. Jacks: 100-ohm, balanced, twisted-pair connector; four-pair, eight-position modular RJ-45 type jacks for voice and or data communication outlets and three-pair, six-position modular RJ-11 type jacks for one of the two jacks required in Printer communication outlets. Comply with TIA/EIA-568-C.1.

B. Workstation Outlets: Provide faceplates and commensurate jacks as indicated on project drawing T-001.

1. Plastic Faceplate: High-impact plastic for workstation and other outlet locations.
2. Metal Faceplate: 630B Type. Stainless steel for all wall telephone outlet locations.
3. For use with snap-in jacks.

   a. Flush mounting jacks, positioning the cord at a 45-degree angle.

4. Legend: Factory labeled by silk-screening or engraving for stainless steel faceplates.
5. Legend: Snap-in, clear-label covers and machine-printed paper inserts.

2.06 UNDER CARPET CABLING

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. Tyco Electronics Corporation; AMP Products (or approved equal).

B. Description: Amp NETCONNECT Category 6 Under-Carpet Conference Room Kit Part No. 1933466-1(or approved equal).

C. Component Schedule:

1. COMPONENT SCHEDULE *
   (* Individual Components For Category 6 Under-Carpet Conference Room Kit Part No. 1933466-1)

#	UNDER CARPET CABLING CONF. RM. KIT CONTENTS	INDIVIDUAL PART NO.	QTY
1	Category 6 Undercarpet Communications Cable	1499539-1	100 - Feet
2	3-Conductor, 12 Awg, Standard Ground, Power Cable	3-553079-3	50 - Feet
3	Flush Wall Frame Communications Transition Box	553739-2	1 - Each
4	Flush Wall Frame Communications Transition Box Cover	553095-1	1 - Each
5	Universal Communications Transition Block, Cat -6	2111682-1	1 - Each
6	4-Port Low Profile Communications Floor Fitting	555287-1	1 - Each
7	Modular Jack Kit, Category 6	1933377-1	4 - Each

8	Flush Wall Power Transition Box	554805-1	1 - Each
9	Flush Wall Power Transition Box Cover	1-553292-3	1 - Each
10	Transition Block For Power	554862-1	1 - Each
11	Top Shield	553536-3	50 - Feet
12	Floor Preparation	554123-3	50 - Feet
13	Spray Adhesive	6-553453-1	1 - Can
14	Hold Down Tape	553481-1	1 - Roll
15	Dual Duplex Receptacle DCR Kit	554192-1	1 - Each

2.07 RG6 COAXIAL CATV CABLE AND OUTLET/CONNECTORS

A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

1. ADC.
2. Belden Inc.
3. Berk-Tek; a Nexans company.
4. CommScope, Inc.
5. Draka Cableteq USA.
6. Genesis Cable Products; Honeywell International, Inc.
7. Mohawk; a division of Belden Networking, Inc.
8. Superior Essex Inc.
9. SYSTIMAX Solutions; a CommScope, Inc. brand.
10. 3M Communication Markets Division.
11. Tyco Electronics Corporation; AMP Products.

B. Description: Coaxial cable shall be 75 ohm RG-6/U, quad shield. Cable shall be label-verified. Cable jacket shall be factory marked at regular intervals identifying cable type. RG6 coaxial cable shall be plenum rated and comply with NFPA 70.

C. Outlet: RG6 male F-type connectors. F-81 barrel connector wall outlet plates. Impact resistant single-port faceplate.

D. Patch Panel: Modular panels housing multiple-numbered jack units with F-81 barrel type connectors at each port.

1. Hinged stand-offs for backboard wall mount application

2. Number of ports per Field: One for each RG-6 coaxial cable indicated.

2.08 GROUNDING

A. Comply with J-STD-607-A.

2.09 IDENTIFICATION PRODUCTS

A. Comply with TIA/EIA-606-A and UL 969 for labeling materials, including label stocks, laminating adhesives, and inks used by label printers.

2.10 SOURCE QUALITY CONTROL

A. Factory test UTP cables on reels according to TIA/EIA-568-C.1.

B. Factory test UTP cables according to TIA/EIA-568-C.2.

C. Factory-sweep test coaxial cables at frequencies from 5 MHz to 1 GHz. Sweep test shall test the frequency response, or attenuation over frequency, of a cable by generating a voltage whose frequency is varied through the specified frequency range and graphing the results.

D. Cable will be considered defective if it does not pass tests and inspections.

E. Prepare test and inspection reports.

PART 3 - EXECUTION

3.01 WIRING METHODS

A. Install cables in pathways and cable trays except within consoles, cabinets, desks, and counters. Conceal pathways and cables except in unfinished spaces.

B. Conceal conductors and cables in accessible ceilings, walls, and floors where possible.

C. Wiring within Enclosures:

1. Bundle, lace, and train conductors to terminal points with no excess and without exceeding manufacturer's limitations on bending radii.
2. Install lacing bars and distribution spools.
3. Install conductors parallel with or at right angles to sides and back of enclosure.

3.02 INSTALLATION OF CABLES

A. Comply with NECA 1.

B. General Requirements for Cabling:

1. Comply with TIA/EIA-568-C.1.
2. Comply with BICSI ITSIM, Ch. 6, "Cable Termination Practices."
3. Install 110-style IDC termination hardware unless otherwise indicated.
4. Terminate conductors; no cable shall contain unterminated elements. Make terminations only at indicated outlets, terminals, cross-connects, and patch panels.
5. Cables may not be spliced. Secure and support cables at intervals not exceeding 30 inches (760 mm) and not more than 6 inches (150 mm) from cabinets, boxes, fittings, outlets, racks, frames, and terminals.
6. Install lacing bars to restrain cables, to prevent straining connections, and to prevent bending cables to smaller radii than minimums recommended by manufacturer.
7. Bundle, lace, and train conductors to terminal points without exceeding manufacturer's limitations on bending radii, but not less than radii specified in BICSI ITSIM, "Cabling Termination Practices" Chapter. Install lacing bars and distribution spools.

8. Do not install bruised, kinked, scored, deformed, or abraded cable. Do not splice cable between termination, tap, or junction points. Remove and discard cable if damaged during installation and replace it with new cable.
9. Cold-Weather Installation: Bring cable to room temperature before dereeling. Heat lamps shall not be used to increase cable temerature.
10. In the communications equipment room, install a 10-foot- (3-m-) long service loop on each end of cable.
11. Pulling Cable: Comply with BICSI ITSIM, Ch. 4, "Pulling Cable." Monitor cable pull tensions.

C. UTP Cable Installation:

1. Comply with TIA/EIA-568-C.2.
2. Do not untwist UTP cables more than 1/2 inch (12 mm) from the point of termination to maintain cable geometry.
3. Cable routing for Patient Telephone communication outlets include routing category 6 cabling through the Patient Telephone's associated Nurse Station Toggle Switch backbox, creating a loop/coil in the Toggle Switch backbox (un-cut) and continuing on to the respective Patient Telephone location and creating a cable coil. At the Patient Telephone location the Category-6 cable shall be terminated on an 8P8C category-6 RJ-45 type jack without a faceplate for testing (only). Provision, installation and final termination of Toggle Switches and Patient Telephones are by others. See associated diagram and details on project drawings T-001, T-501 and T-502.
4. Undercarpet cabling and components shall be provided as indicated on the associated project drawings. See associated diagram on project drawing T-501.

D. Separation from EMI Sources:

1. Comply with BICSI TDMM and TIA-569-B for separating unshielded copper voice and data communication cable from potential EMI sources, including electrical power lines and equipment.
2. Separation between open communications cables or cables in nonmetallic raceways and unshielded power conductors and electrical equipment shall be as follows:

    a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 5 inches (127 mm).
    b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 12 inches (300 mm).
    c. Electrical Equipment Rating More Than 5 kVA: A minimum of 24 inches (610 mm).

3. Separation between communications cables in grounded metallic raceways and unshielded power lines or electrical equipment shall be as follows:

    a. Electrical Equipment Rating Less Than 2 kVA: A minimum of 2-1/2 inches (64 mm).
    b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 6 inches (150 mm).
    c. Electrical Equipment Rating More Than 5 kVA: A minimum of 12 inches (300 mm).

4. Separation between communications cables in grounded metallic raceways and power lines and electrical equipment located in grounded metallic conduits or enclosures shall be as follows:

    a. Electrical Equipment Rating Less Than 2 kVA: No requirement.
    b. Electrical Equipment Rating between 2 and 5 kVA: A minimum of 3 inches (76 mm).
    c. Electrical Equipment Rating More Than 5 kVA: A minimum of 6 inches (150 mm).

5. Separation between Communications Cables and Electrical Motors and Transformers, 5 kVA or HP and Larger: A minimum of 48 inches (1200 mm).
6. Separation between Communications Cables and Fluorescent Fixtures: A minimum of 5 inches (127 mm).

3.03 GROUNDING

A. Install grounding according to BICSI TDMM, "Grounding, Bonding, and Electrical Protection" Chapter.

B. Comply with J-STD-607-A.

C. Comply with specification Section 270526 Grounding and Bonding for Communications Systems and requirements shown on associated project drawings.

D. Provide and install telecommunications grounding busbars and the bonding backbones, the ground equalizer backbone and the bonding conductor for telecommunications (BCT). Provide grounding conductors and all bonding connection components within the M.I.S. Room, The TV Control Room and all I.T. Rooms.

E. Bond metallic equipment to the grounding bus bar. Size the ground conductor based on required length of ground wire in accordance with ANSI J-STD-607-A.

3.04 IDENTIFICATION

A. Identify/label system components, wiring, and cabling complying with TIA/EIA-606-A.

    1. Administration Class: 3.

B. Use unique, alphanumeric designation for each cable and label cable, jacks, connectors, and terminals to which it connects with same designation. At completion, cable records shall reflect as-built conditions.

C. Label colors for equipment identification shall comply with TIA/EIA-606-A for Class 3 level of administration.

D. Cable Schedule: Post in prominent location in each equipment room and wiring closet. List incoming and outgoing cables and their designations, origins, and destinations. Protect with rigid frame and clear plastic cover. Furnish an electronic copy of final comprehensive schedules for Project.

E. Cabling Administration Drawings: Show building floor plans with cabling administration-point labeling. Identify labeling convention and show labels for telecommunications closets, backbone pathways and cables, entrance pathways and cables, terminal hardware and positions, horizontal cables, work areas and workstation terminal positions, grounding buses and pathways, and equipment grounding conductors. Follow convention of TIA/EIA-606-A. Furnish electronic record of all drawings, in software and format selected by Owner.

F. Cable and Wire Identification:

1. Label each cable within 4 inches (100 mm) of each termination and tap, where it is accessible in a cabinet or junction or outlet box, and elsewhere as indicated.
2. Each wire connected to building-mounted devices is not required to be numbered at device if color of wire is consistent with associated wire connected and numbered within panel or cabinet.
3. Exposed Cables and Cables in Cable Trays and Wire Troughs: Label each cable at intervals not exceeding 15 feet (4.5 m).
4. Label each terminal strip and screw terminal in each cabinet, rack, or panel.

    a. Individually number wiring conductors connected to terminal strips, and identify each cable or wiring group being extended from a panel or cabinet to a building-mounted device shall be identified with name and number of particular device as shown.
    b. Label each unit and field within distribution racks and frames.

5. Identification within Connector Fields in Equipment Rooms and Wiring Closets: Label each connector and each discrete unit of cable-terminating and connecting hardware. Where similar jacks and plugs are used for both voice and data communication cabling, use a different color for jacks and plugs of each service.

G. Labels shall be preprinted or computer-printed type with printing area and font color that contrasts with cable jacket color but still complies with requirements in TIA/EIA-606-A.

1. Cables use flexible vinyl or polyester that flex as cables are bent.

3.05 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.

B. Perform the following tests and inspections:

1. Visually inspect UTP and RG6 cable jacket materials for NRTL certification markings. Inspect UTP cabling terminations in communications equipment rooms for compliance with color-coding for pin assignments, and inspect cabling connections for compliance with TIA/EIA-568-C.1.
2. Visually confirm Category 6 and RG6, marking of outlets, cover plates, outlet/connectors, and patch panels.
3. Visually inspect cable placement, cable termination, grounding and bonding, equipment and patch cords, and labeling of all components.

4. Test UTP copper cabling for DC loop resistance, shorts, opens, intermittent faults, and polarity between conductors. Test operation of shorting bars in connection blocks. Test cables after termination but not cross-connection.

    a. Test instruments shall meet or exceed applicable requirements in TIA/EIA-568-C.2. Perform tests with a tester that complies with performance requirements in "Test Instruments (Normative)" Annex, complying with measurement accuracy specified in "Measurement Accuracy (Informative)" Annex. Use only test cords and adapters that are qualified by test equipment manufacturer for channel or link test configuration.

5. UTP Performance Tests:

    a. Test for each outlet. Perform the following tests according to TIA/EIA-568-C.1 and TIA/EIA-568-C.2:

        1) Wire map.
        2) Length (physical vs. electrical, and length requirements).
        3) Insertion loss.
        4) Near-end crosstalk (NEXT) loss.
        5) Power sum near-end crosstalk (PSNEXT) loss.
        6) Equal-level far-end crosstalk (ELFEXT).
        7) Power sum equal-level far-end crosstalk (PSELFEXT).
        8) Return loss.
        9) Propagation delay.
        10) Delay skew.

C. Document data for each measurement. Data for submittals shall be printed in a summary report that is formatted similar to Table 10.1 in BICSI TDMM, or transferred from the instrument to the computer, saved as text files, and printed and submitted.

D. End-to-end cabling will be considered defective if it does not pass tests and inspections.

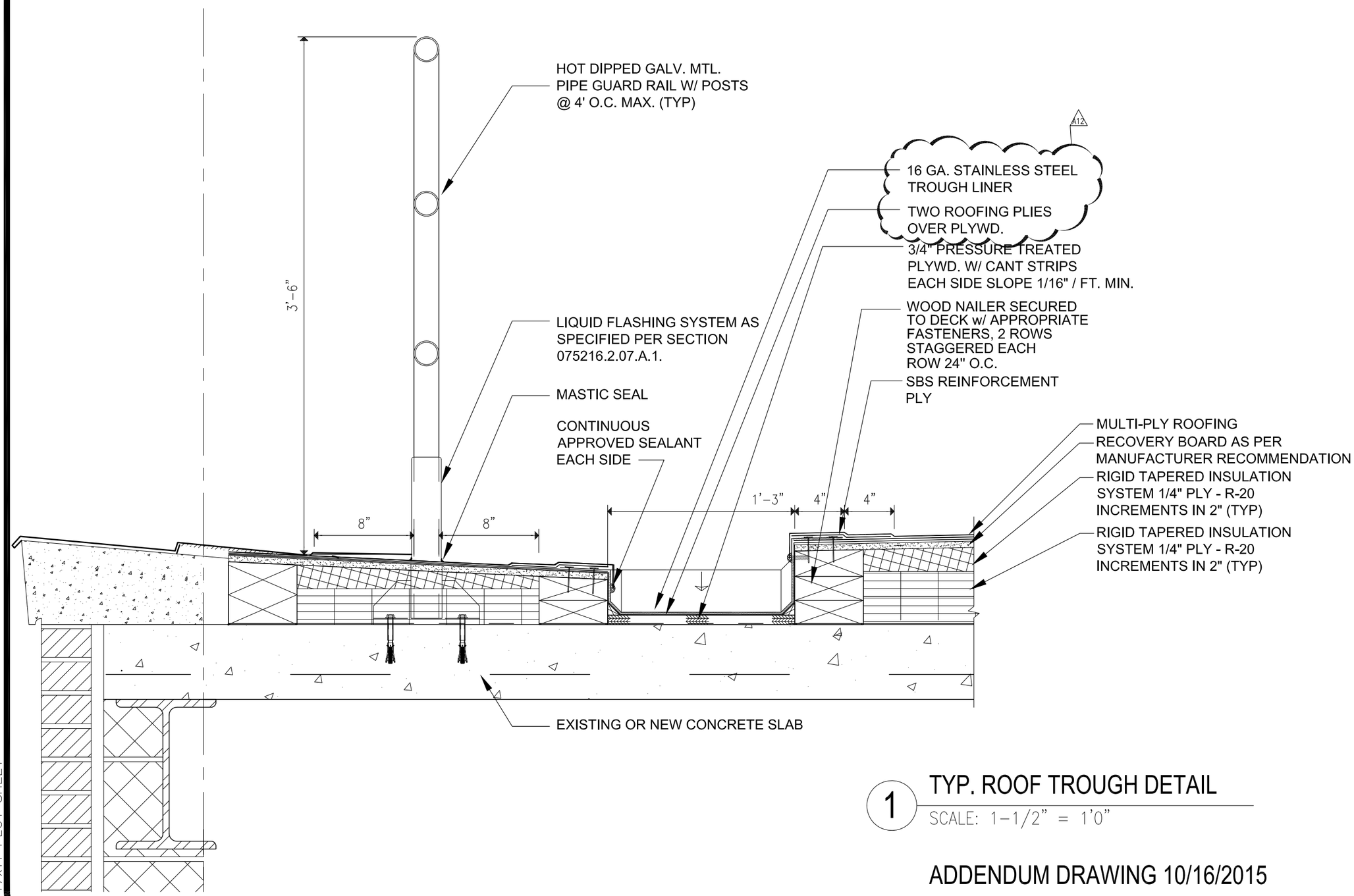
E. Test RG-6 coaxial cables and category-6 cables terminated on 6P6C RJ-11-type jacks (only) for shorts, grounds, opens and continuity.

F. Prepare test and inspection reports.

3.06 DEMONSTRATION

A. Train Owner's maintenance personnel in cable-plant management operations, including changing signal pathways for different workstations, rerouting signals in failed cables, and keeping records of cabling assignments and revisions when extending wiring to establish new workstation outlets.

END OF SECTION



1 TYP. ROOF TROUGH DETAIL

SCALE: 1-1/2" = 1'0"

ADDENDUM DRAWING 10/16/2015

17x11 PLOT SHEET

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

CONSTRUCTION

MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION

MANHATTAN PSCHIATRIC CENTER, BUILDING NO. 102
600 EAST 125TH STREET
WARDS ISLAND, NY 10035

NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
12	10/16/15	ADDENDUM DRAWING

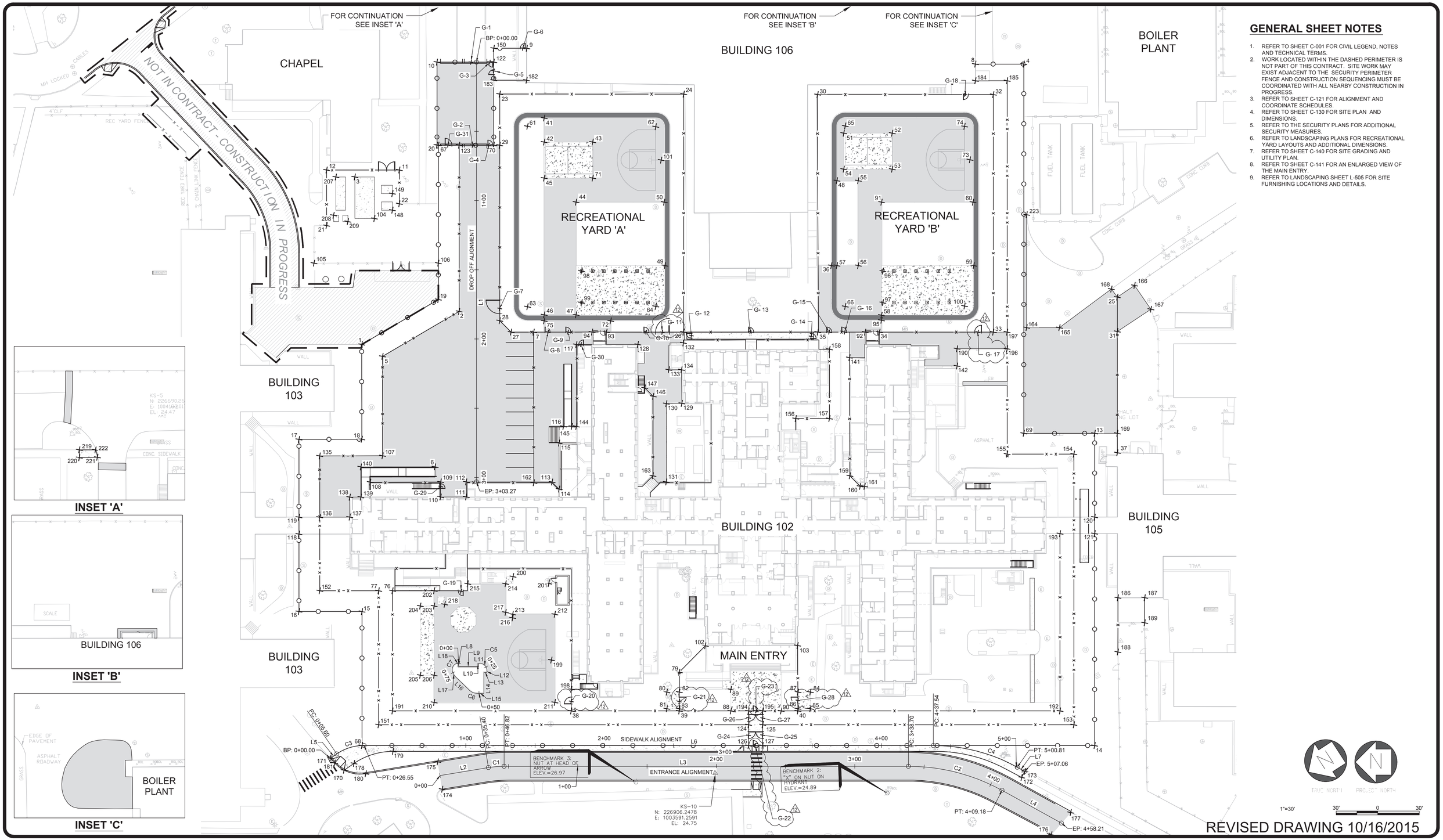
PROJECT NUMBER:	44578
DESIGNED BY:	MAK/WW
DRAWN BY:	LR/LM/SV
CHECKED BY:	LR
APPROVED BY:	MAK

SHEET TITLE

TYP. ROOF TROUGH DETAIL

A-907B-2

SHEET 1 OF 1



REVISED DRAWING 10/16/2015

GENERAL SHEET NOTES

1. REFER TO SHEET C-001 FOR CIVIL LEGEND, NOTES AND TECHNICAL TERMS.
2. WORK LOCATED WITHIN THE DASHED PERIMETER IS NOT PART OF THIS CONTRACT. SITE WORK MAY EXIST ADJACENT TO THE SECURITY PERIMETER FENCE AND CONSTRUCTION SEQUENCING MUST BE COORDINATED WITH ALL NEARBY CONSTRUCTION IN PROGRESS.
3. REFER TO SHEET C-121 FOR ALIGNMENT AND COORDINATE SCHEDULES.
4. REFER TO SHEET C-130 FOR SITE PLAN AND DIMENSIONS.
5. REFER TO THE SECURITY PLANS FOR ADDITIONAL SECURITY MEASURES.
6. REFER TO LANDSCAPING PLANS FOR RECREATIONAL YARD LAYOUTS AND ADDITIONAL DIMENSIONS.
7. REFER TO SHEET C-140 FOR SITE GRADING AND UTILITY PLAN.
8. REFER TO SHEET C-141 FOR AN ENLARGED VIEW OF THE MAIN ENTRY.
9. REFER TO LANDSCAPING SHEET L-505 FOR SITE FURNISHING LOCATIONS AND DETAILS.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS:

RBSD ARCHITECTS P.C. | STV 100 Years

A Joint Venture

225 Park Avenue South
New York, New York 10003

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STATE OF NEW YORK · MICHAEL V. TUNILO · No. 61442 · LICENSED PROFESSIONAL ENGINEER

CONTRACT:
CONSTRUCTION

TITLE:
MAJOR BUILDING RENOVATION FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION:
NYS OFFICE OF MENTAL HEALTH
MANHATTAN PSYCHIATRIC CENTER
WARDS ISLAND, NY

CLIENT:
NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
12	10/16/2015	ADDENDUM 12
	6-15-2015	BID DOCUMENT

PROJECT NUMBER:	44578
DESIGNED BY:	KR
DRAWN BY:	MG
FIELD CHECK:	NA
APPROVED:	MT

SHEET TITLE:

COORDINATE AND ALIGNMENT PLAN

BUILDING NUMBER:

DRAWING NUMBER: C-120

SHEET OF

COORDINATE SCHEDULE

POINT #	NORTHING	EASTING	DESCRIPTION
1	226945.92	1003990.51	CORNER OF FENCE
2	226874.18	1003971.20	CORNER OF ASPHALT/FENCE
3	226882.71	1004093.81	CORNER OF CONCRETE PAD
4	226436.08	1003892.75	CORNER OF FENCE
5	226938.22	1003975.01	CORNER OF ASPHALT/FENCE
6	226951.12	1003887.59	CORNER OF ASPHALT
7	226837.82	1003928.84	INTERSECTION OF FENCE
8	226465.12	1003912.20	END OF FENCE
9	226727.81	1004101.93	END OF FENCE
10	226787.27	1004129.72	CORNER OF FENCE/ASPHALT
11	226853.20	1004080.07	CORNER OF FENCE
12	226896.84	1004109.29	CORNER OF FENCE
13	226542.01	1003642.69	CORNER OF FENCE
14	226667.51	1003455.34	CORNER OF FENCE
15	227053.08	1003830.12	CORNER OF FENCE
16	227090.93	1003855.45	CORNER OF FENCE
17	227021.73	1003958.76	CORNER OF FENCE
18	226983.95	1003933.60	CORNER OF FENCE
19	226881.86	1003986.69	CORNER OF ASPHALT/FENCE
20	226820.65	1004079.86	CORNER OF FENCE/ASPHALT
21	226919.18	1004075.94	CORNER OF FENCE
22	226866.79	1004059.79	CORNER OF FENCE
23	226762.47	1004085.32	CORNER OF FENCE
24	226652.11	1004011.36	CORNER OF FENCE
25	226473.66	1003715.34	CORNER OF ASPHALT/END OF FENCE
26	226747.89	1003868.64	INTERSECTION OF FENCE
27	226851.33	1003937.91	CORNER OF FENCE/ASPHALT
28	226853.58	1003949.32	CORNER OF FENCE/ASPHALT
29	226783.04	1004054.62	CORNER OF ASPHALT
30	226571.99	1003957.27	CORNER OF FENCE
31	226487.49	1003694.70	CORNER OF ASPHALT/END OF FENCE
32	226466.60	1003886.71	CORNER OF FENCE
33	226562.10	1003744.15	CORNER OF FENCE
34	226630.41	1003789.90	END OF FENCE
35	226667.39	1003814.68	INTERSECTION OF FENCE
36	226632.47	1003849.14	CORNER OF ASPHALT/CURB LINE
37	226536.19	1003621.91	END OF FENCE
38	226967.55	1003686.42	INTERSECTION OF FENCE
39	226902.72	1003642.99	INTERSECTION OF FENCE
40	226831.56	1003595.33	INTERSECTION OF FENCE
41	226745.41	1004053.08	CORNER OF ASPHALT/CURB LINE
42	226755.09	1004038.64	CORNER OF ASPHALT/WALL
43	226726.01	1004019.16	CORNER OF ASPHALT/CONCRETE
44	226760.13	1003989.79	CORNER OF ASPHALT/CURB
45	226769.56	1004017.04	CORNER OF ASPHALT/WALL
46	226824.53	1003934.97	CORNER OF ASPHALT/CURB LINE
47	226805.43	1003922.17	CORNER OF CONCRETE
48	226595.02	1003897.87	CORNER OF ASPHALT/CURB LINE
49	226732.34	1003916.04	CORNER OF CONCRETE
50	226707.26	1003954.37	CORNER OF ASPHALT/CURB LINE
51	226571.85	1003923.62	CORNER OF ASPHALT/WALL
52	226542.77	1003904.14	CORNER OF ASPHALT/CONCRETE
53	226557.24	1003882.53	CORNER OF ASPHALT/CONCRETE
54	226586.32	1003902.02	CORNER OF ASPHALT/WALL
55	226582.23	1003889.30	CORNER OF ASPHALT/CURB
56	226616.36	1003838.35	CORNER OF ASPHALT/CURB
57	226629.14	1003846.91	CORNER OF ASPHALT/CURB LINE
58	226622.37	1003799.24	CORNER OF CONCRETE
59	226547.12	1003791.97	CORNER OF CONCRETE/CURB LINE
60	226522.04	1003830.30	CORNER OF ASPHALT/CURB LINE
61	226758.77	1004054.81	CENTER OF TRACK CURVE
62	226682.02	1004003.05	CENTER OF TRACK CURVE
63	226831.30	1003946.52	CENTER OF TRACK CURVE
64	226754.23	1003895.23	CENTER OF TRACK CURVE
65	226568.05	1003927.34	CENTER OF TRACK CURVE
66	226640.59	1003819.05	CENTER OF TRACK CURVE

COORDINATE SCHEDULE

POINT #	NORTHING	EASTING	DESCRIPTION
67	226819.82	1004079.31	INTERSECTION OF FENCE
68	227106.95	1003749.72	CORNER OF FENCE/SIDEWALK
69	226584.52	1003671.17	CORNER OF ASPHALT/FENCE
70	226786.59	1004057.05	CORNER OF FENCE/ASPHALT
71	226740.49	1003997.55	CORNER OF ASPHALT/CONCRETE
72	226787.07	1003904.65	CORNER OF ASPHALT/CURB LINE
73	226506.81	1003856.97	CENTER OF POST
74	226496.67	1003879.18	CENTER OF TRACK CURVE
75	226826.95	1003931.37	CORNER OF ASPHALT/CURB LINE
76	227026.45	1003830.34	CORNER OF FENCE
77	227034.76	1003835.91	CORNER OF FENCE
79	226887.15	1003666.22	CORNER OF FENCE
80	226902.64	1003659.28	CORNER OF CONCRETE
81	226909.33	1003649.30	CORNER OF CONCRETE
82	226895.16	1003654.27	CORNER OF CONCRETE
83	226901.79	1003644.25	CORNER OF CONCRETE
84	226816.53	1003601.60	CORNER OF CONCRETE
85	226823.22	1003591.62	CORNER OF CONCRETE
86	226830.70	1003596.63	CORNER OF CONCRETE
87	226823.95	1003606.58	CORNER OF CONCRETE
88	226871.78	1003622.27	CORNER OF CONCRETE
89	226863.18	1003635.11	CORNER OF CONCRETE
90	226841.64	1003602.08	CORNER OF CONCRETE
91	226576.93	1003867.08	CORNER OF ASPHALT/CURB
92	226638.95	1003795.62	END OF FENCE
93	226794.15	1003899.60	END OF FENCE
94	226802.73	1003905.39	END OF FENCE
95	226624.42	1003796.19	CORNER OF ASPHALT/CURB LINE
96	226603.83	1003825.14	PAVILION POST B1
97	226616.49	1003806.24	PAVILION POST A1
98	226784.53	1003946.18	PAVILION POST B1
99	226797.19	1003927.28	PAVILION POST A1
100	226568.88	1003771.35	CENTER OF TRACK CURVE
101	226692.16	1003980.84	CENTER OF POST
102	226860.94	1003671.64	END OF FENCE
103	226805.50	1003634.72	END OF FENCE
104	226887.64	1004061.01	CORNER OF CONCRETE PAD
105	226941.85	1004058.46	CORNER OF FENCE
106	226867.25	1004008.49	INTERSECTION OF FENCE
107	226978.14	1003915.31	CORNER OF FENCE/ASPHALT
108	226996.11	1003904.49	CORNER OF ASPHALT
109	226953.79	1003876.30	CORNER OF ASPHALT
110	226959.88	1003867.26	CORNER OF ASPHALT
111	226944.52	1003856.99	CORNER OF ASPHALT
112	226938.46	1003866.04	CORNER OF ASPHALT
113	226886.99	1003831.46	CORNER OF ASPHALT
114	226885.60	1003824.42	CORNER OF ASPHALT
115	226867.14	1003852.00	CORNER OF ASPHALT
116	226857.81	1003860.23	CORNER OF ASPHALT
117	226817.17	1003904.24	CORNER OF ASPHALT
118	227059.79	1003901.92	FENCE ATOP BUILDING
119	227052.99	1003912.07	FENCE ATOP BUILDING
120	226575.70	1003592.40	FENCE ATOP BUILDING
121	226582.31	1003582.53	FENCE ATOP BUILDING
122	226753.20	1004106.90	INTERSECTION OF FENCE/CORNER OF ASPHALT
123	226807.36	1004070.96	INTERSECTION OF FENCE/CORNER OF ASPHALT
124	226866.72	1003606.84	INTERSECTION OF FENCE
125	226858.30	1003601.20	INTERSECTION OF FENCE
126	226875.06	1003594.38	INTERSECTION OF FENCE
127	226866.65	1003588.75	INTERSECTION OF FENCE
128	226780.25	1003879.58	CORNER OF ASPHALT
129	226777.56	1003826.53	CORNER OF ASPHALT
130	226786.97	1003832.60	CORNER OF ASPHALT
131	226818.47	1003785.59	CORNER OF ASPHALT
132	226752.31	1003862.16	CORNER OF ASPHALT
133	226771.89	1003851.92	CORNER OF ASPHALT

COORDINATE SCHEDULE

POINT #	NORTHING	EASTING	DESCRIPTION
134	226764.28	1003846.83	CORNER OF ASPHALT
135	227015.93	1003940.48	CORNER OF FENCE/ASPHALT
136	227040.52	1003903.74	CORNER OF ASPHALT
137	227022.49	1003891.72	CORNER OF ASPHALT
138	227014.44	1003903.69	CORNER OF ASPHALT
139	227007.78	1003899.23	CORNER OF ASPHALT
140	226995.65	1003917.39	CORNER OF ASPHALT
141	226658.64	1003786.62	CORNER OF ASPHALT
142	226597.43	1003738.39	CORNER OF ASPHALT
144	226850.08	1003855.06	CORNER OF ASPHALT
145	226852.81	1003856.88	CORNER OF ASPHALT
146	226791.90	1003842.28	CORNER OF ASPHALT
147	226793.60	1003850.70	CORNER OF ASPHALT
148	226873.50	1004058.75	CORNER OF CONCRETE PAD
149	226866.82	1004068.72	CORNER OF CONCRETE PAD
150	226747.63	1004115.20	CORNER OF FENCE
151	227088.62	1003755.49	CORNER OF FENCE
152	227070.10	1003859.55	CORNER OF FENCE
153	226671.62	1003476.15	CORNER OF FENCE
154	226562.82	1003638.58	CORNER OF FENCE
155	226602.83	1003665.38	CORNER OF FENCE
156	226715.34	1003771.65	CORNER OF FENCE
157	226695.13	1003758.11	CORNER OF FENCE
158	226667.27	1003799.69	CORNER OF FENCE
159	226705.92	1003715.57	CORNER OF FENCE
160	226703.95	1003705.11	CORNER OF FENCE
161	226701.32	1003703.35	END OF FENCE
162	226898.26	1003838.35	INTERSECTION OF FENCE
163	226824.04	1003794.70	CORNER OF FENCE
164	226540.31	1003733.47	CORNER OF ASPHALT
165	226520.61	1003720.26	CORNER OF ASPHALT
166	226458.61	1003715.39	CORNER OF ASPHALT
167	226458.40	1003694.55	CORNER OF ASPHALT/FENCE
168	226473.98	1003722.55	CORNER OF ASPHALT
169	226528.38	1003633.57	CORNER OF ASPHALT
170	227127.64	1003742.10	INTERSECTION OF SIDEWALK/ASPHALT
171	227131.08	1003754.76	INTERSECTION OF SIDEWALK/ASPHALT
172	226724.13	1003465.52	CORNER OF SIDEWALK
173	226719.77	1003467.84	CORNER OF SIDEWALK
174	227076.38	1003691.26	MEET EXISTING PAVEMENT/CURB
175	227068.09	1003709.46	MEET EXISTING PAVEMENT/CURB
176	226729.31	1003419.23	MEET EXISTING PAVEMENT/CURB
177	226708.79	1003424.77	MEET EXISTING PAVEMENT/CURB
178	227118.94	1003742.17	EDGE OF SIDEWALK/PC
179	227090.71	1003733.71	EDGE OF SIDEWALK/PT
180	227116.02	1003731.27	EDGE OF PAVEMENT/PT
181	227130.37	1003750.20	EDGE OF PAVEMENT/PC
182	226740.78	1004082.83	END OF FENCE
183	226760.48	1004096.03	INTERSECTION OF FENCE
184	226471.79	1003902.23	END OF FENCE
185	226452.73	1003889.46	CORNER OF FENCE
186	226594.16	1003534.68	END OF FENCE
187	226578.09	1003523.93	END OF FENCE
188	226615.98	1003502.13	END OF FENCE
189	226588.17	1003508.88	END OF FENCE
190	226590.51	1003748.72	CORNER OF ASPHALT
191	227074.75	1003758.23	CORNER OF FENCE
192	226674.36	1003490.03	CORNER OF FENCE
193	226603.10	1003596.41	CORNER OF FENCE
194	226861.15	1003615.15	INTERSECTION OF FENCE
195	226852.73	1003609.52	INTERSECTION OF FENCE
196	226560.48	1003728.60	CORNER OF ASPHALT
197	226553.79	1003738.58	CORNER OF ASPHALT
198	226958.80	1003699.34	CORNER OF CONCRETE
199	226958.99	1003724.91	CENTER OF POST
200	226948.47	1003790.40	CORNER OF CONCRETE PAD

COORDINATE SCHEDULE

POINT #	NORTHING	EASTING	DESCRIPTION
201	226929.82	1003771.88	CORNER OF CONCRETE PAD
202	227001.45	1003813.59	CORNER OF ASPHALT/CURB LINE
203	227007.59	1003804.42	CORNER OF ASPHALT/CONCRETE/CURB
204	227015.90	1003809.99	CORNER OF CONCRETE
205	227043.73	1003768.45	CORNER OF CONCRETE
206	227035.42	1003762.88	CORNER OF ASPHALT/CONCRETE/CURB
207	226894.09	1004101.39	CORNER OF CONCRETE PAD
208	226910.88	1004079.33	CORNER OF CONCRETE PAD
209	226904.79	1004069.84	CORNER OF CONCRETE PAD
210	227046.33	1003746.60	CORNER OF ASPHALT/CONCRETE CURB
211	226973.96	1003698.12	CORNER OF ASPHALT/CONCRETE CURB
212	226938.54	1003751.00	CORNER OF ASPHALT/CONCRETE CURB
213	226963.82	1003767.92	CORNER OF ASPHALT/CONCRETE CURB
214	226955.78	1003789.07	CORNER OF ASPHALT/CURB LINE
215	226978.53	1003804.31	CORNER OF ASPHALT
216	226965.27	1003765.76	CORNER OF ASPHALT/CONCRETE CURB
217	226967.27	1003771.91	EDGE OF ASPHALT/CURB
218	227000.61	1003801.21	CORNER OF CONCRETE PAD
219	226742.43	1004194.63	CORNER OF SIDEWALK
220	226745.59	1004189.94	CORNER OF SIDEWALK
221	226734.65	1004182.91	EDGE OF SIDEWALK
222	226732.80	1004188.06	EDGE OF SIDEWALK
223	226494.90	1003801.20	EDGE OF PAVEMENT

GATE SCHEDULE

ID	VEHICULAR OR PEDESTRIAN	GATE TYPE	GATE WIDTH	DETAIL REFERENCE SHEET
G-1	VEHICULAR	SLIDING	16'-0"	REFER TO DETAIL 1/C-507
G-2	VEHICULAR	SLIDING	16'-0"	REFER TO DETAIL 1/C-507
G-3	PEDESTRIAN	TYPE A	3'-8"	REFER TO DETAIL 3/C-508
G-4	PEDESTRIAN	TYPE A	3'-8"	REFER TO DETAIL 3C-508
G-5	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 3/C-504
G-6	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G-7	PEDESTRIAN	TYPE B	10'-0"	REFER TO DETAIL 1/C-504
G-8	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G-9	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G-10	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G- 11	PEDESTRIAN	TYPE B	10'-0"	REFER TO DETAIL 1/C-504 12
G- 12	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G- 13	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G- 14	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G-15	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G- 16	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G- 17	PEDESTRIAN	TYPE B	5'-0"	REFER TO DETAIL 1/C-504 12
G-18	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G-19	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G-20	PEDESTRIAN	TYPE B	5'-0"	REFER TO DETAIL 1/C-504 12
G-21	PEDESTRIAN	TYPE B	5'-0"	REFER TO DETAIL 1/C-504
G-22	PEDESTRIAN	TYPE A	3'-8"	REFER TO DETAIL 3/C-508
G-23	PEDESTRIAN	TYPE A	3'-8"	REFER TO DETAIL 3/C-508
G-24	PEDESTRIAN	TYPE B	5'-0"	REFER TO DETAIL 1/C-504
G-25	PEDESTRIAN	TYPE B	5'-0"	REFER TO DETAIL 1/C-504
G-26	PEDESTRIAN	TYPE B	5'-0"	REFER TO DETAIL 1/C-504
G-27	PEDESTRIAN	TYPE B	5'-0"	REFER TO DETAIL 1/C-504
G-28	PEDESTRIAN	TYPE B	5'-0"	REFER TO DETAIL 1/C-504 12
G-29	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G-30	PEDESTRIAN	TYPE B	3'-8"	REFER TO DETAIL 1/C-504
G-31	PEDESTRIAN	TYPE B	5'-0"	REFER TO DETAIL 1/C-504

GENERAL SHEET NOTES

1. REFER TO SHEET C-001 FOR CIVIL LEGEND, NOTES AND TECHNICAL TERMS.
2. REFER TO SHEET C-120 FOR ALIGNMENT LAYOUTS, COORDINATE AND GATE LOCATIONS.

DROP OFF ALIGNMENT

ID	LENGTH	LINE/CHORD DIRECTION	START STATION	START EASTING,NORTHING	END STATION	END EASTING, NORTHING
L1	303.27	N56° 10' 55.08"W	0+00.00	1004113.85,226763.58	3+03.27	1003861.90,226932.37

ENTRANCE ALIGNMENT

ID	RADIUS	LENGTH	LINE/CHORD DIRECTION	START STATION	START EASTING, START NORTHING	END STATION	END EASTING, END NORTHING	PI EASTING, PI NORTHING	DELTA ANGLE	CHORD LENGTH	EXTERNAL TANGENT
L2		35.40	S24° 28' 06.68"W	0+00.00	1003700.36,227072.24	0+35.40	1003685.70,227040.01				
C1	70.00	11.42	S29° 08' 33.39"W	0+35.40	1003685.70,227040.01	0+46.82	1003680.14,227030.05	1003683.33,227034.80	9.35	11.41	5.72
L3		291.88	S33° 49' 00.38"W	0+46.82	1003680.14,227030.05	3+38.70	1003517.70,226787.55				
C2	140.00	70.48	S48° 14' 19.66"W	3+38.70	1003517.70,226787.55	4+09.18	1003465.68,226741.10	1003497.66,226757.64	28.84	69.74	36.00
L4		49.03	S62° 39' 38.94"W	4+09.18	1003465.68,226741.10	4+58.21	1003422.13,226718.59				

SIDEWALK ALIGNMENT

ID	RADIUS	LENGTH	LINE/CHORD DIRECTION	START STATION	START EASTING, START NORTHING	END STATION	END EASTING, END NORTHING	PI EASTING, PI NORTHING	DELTA ANGLE	CHORD LENGTH	EXTERNAL TANGENT
L5		5.60	S0° 28' 17.75"E	0+00.00	1003754.76,227131.08	0+05.60	1003754.80,227125.48				
C3	35.00	20.95	S16° 40' 20.14"W	0+05.60	1003754.80,227125.48	0+26.55	1003748.88,227105.71	1003754.89,227114.68	34.29	20.63	10.80
L6		410.99	S33° 49' 00.39"W	0+26.55	1003748.88,227105.71	4+37.54	1003520.15,226764.25				
C4	125.00	63.27	S48° 18' 58.08"W	4+37.54	1003520.15,226764.25	5+00.81	1003473.40,226722.63	1003502.16,226737.39	29.00	62.60	32.33
L7		6.25	S62° 48' 58.11"W	5+00.81	1003473.40,226722.63	5+07.06	1003467.84,226719.77				

CURB ALIGNMENT

ID	RADIUS	LENGTH	LINE/CHORD DIRECTION	START STATION	START EASTING, START NORTHING	END STATION	END EASTING, END NORTHING	PI EASTING, PI NORTHING	DELTA ANGLE	CHORD LENGTH	EXTERNAL TANGENT
L8		2.11	N56° 11' 01.96"W	0+00.00	1003760.27,227016.00	0+02.11	1003758.51,227017.17				
L9		13.91	S33° 48' 58.04"W	0+02.11	1003758.51,227017.17	0+16.02	1003750.77,227005.62				
L10		2.12	S56° 11' 01.96"E	0+16.02	1003750.77,227005.62	0+18.14	1003752.53,227004.44				
L11		1.31	S33° 48' 58.04"W	0+18.14	1003752.53,227004.44	0+19.46	1003751.80,227003.35				
C5	5.33	8.38	S78° 49' 20.94"W	0+19.46	1003751.80,227003.35	0+27.83	1003744.40,227001.89	1003748.83,226998.92	90.01	7.54	5.33
L12		1.21	N55° 54' 25.85"W	0+27.83	1003744.40,227001.89	0+29.04	1003743.40,227002.56				
L13		2.28	N33° 51' 08.64"E	0+29.04	1003743.40,227002.56	0+31.33	1003744.67,227004.46				
L14		15.16	N56° 11' 10.72"W	0+31.33	1003744.67,227004.46	0+46.48	1003732.08,227012.89				
L15		4.98	N33° 48' 49.28"E	0+46.48	1003732.08,227012.89	0+51.46	1003734.85,227017.03				
C6	7.19	5.51	N54° 35' 20.26"E	0+51.46	1003734.85,227017.03	0+56.97	1003739.23,227020.15	1003736.41,227019.47	43.94	5.38	2.90
L16		15.41	N77° 45' 40.43"E	0+56.97	1003739.23,227020.15	0+72.39	1003754.30,227023.41				
L17		2.38	S84° 22' 18.17"E	0+72.39	1003754.30,227023.41	0+74.77	1003756.67,227023.18				
C7	4.83	8.31	S35° 21' 08.03"E	0+74.77	1003756.67,227023.18	0+83.08	1003760.90,227017.21	1003762.25,227022.66	98.59	7.32	5.61
L18		1.37	S27° 35' 21.43"W	0+83.08	1003760.90,227017.21	0+84.44	1003760.27,227016.00				

REVISED DRAWING 10/16/2015

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS:

RBSD ARCHITECTS P.C. | STV 100 Years

A Joint Venture

225 Park Avenue South
New York, New York 10003

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STATE OF NEW YORK · MICHAEL V. TURLEY · No. 61442 · LICENSED PROFESSIONAL ENGINEER

CONTRACT:
CONSTRUCTION

TITLE:
MAJOR BUILDING RENOVATION FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION:
NYS OFFICE OF MENTAL HEALTH
MANHATTAN PSYCHIATRIC CENTER
WARDS ISLAND, NY

CLIENT:
NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
12	10/16/2015	ADDENDUM 12
	6-15-2015	BID DOCUMENT

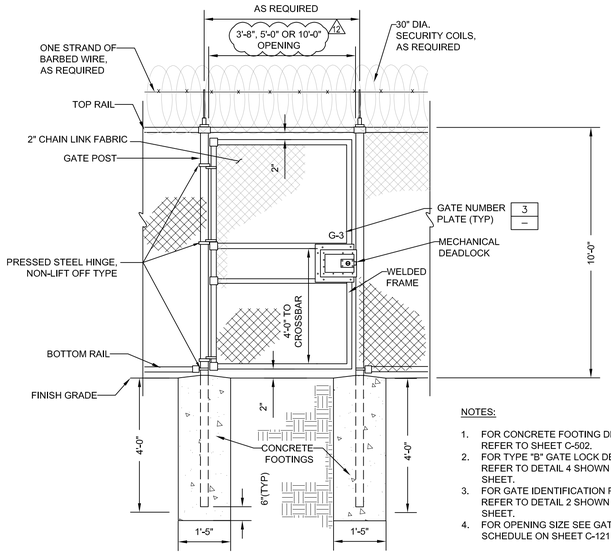
PROJECT NUMBER:	44578
DESIGNED BY:	KR
DRAWN BY:	MG
FIELD CHECK:	NA
APPROVED:	MT

SHEET TITLE:
ALIGNMENT AND COORDINATE SCHEDULES

BUILDING NUMBER:

DRAWING NUMBER: C-121

SHEET OF

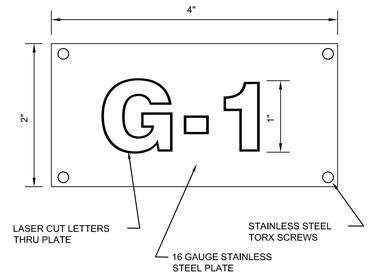


NOTES:

1. FOR CONCRETE FOOTING DETAILS, REFER TO SHEET C-502.
2. FOR TYPE "B" GATE LOCK DETAILS REFER TO DETAIL 4 SHOWN ON THIS SHEET.
3. FOR GATE IDENTIFICATION PLATE, REFER TO DETAIL 2 SHOWN ON THIS SHEET.
4. FOR OPENING SIZE SEE GATE SCHEDULE ON SHEET C-121.

1 / C-504 TYPE 'B' PERSONNEL GATE

NOT TO SCALE

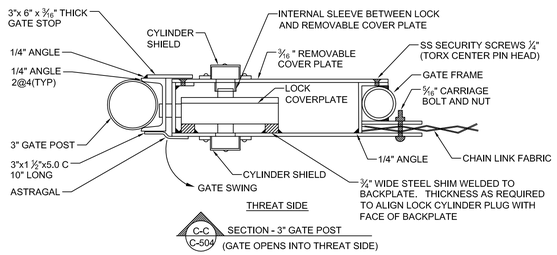


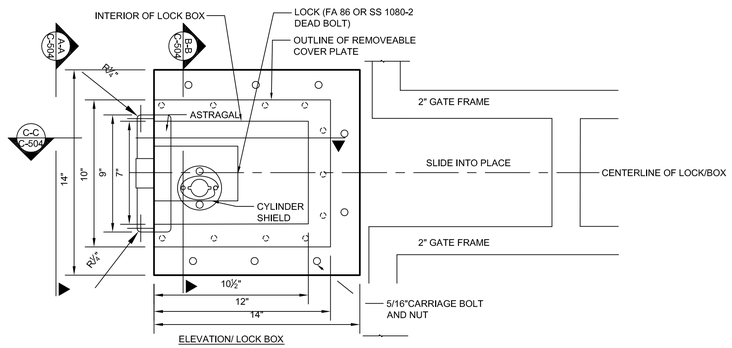
NOTES:

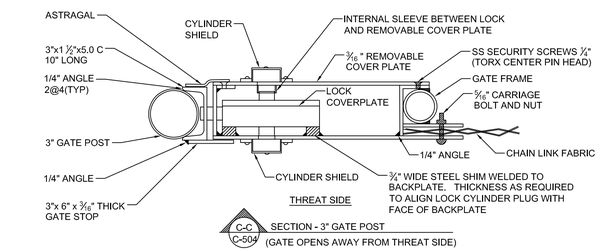
1. PROVIDE GATE IDENTIFICATION FOR ALL GATES.
2. LOCATIONS SHALL BE CONFIRMED IN THE FIELD.

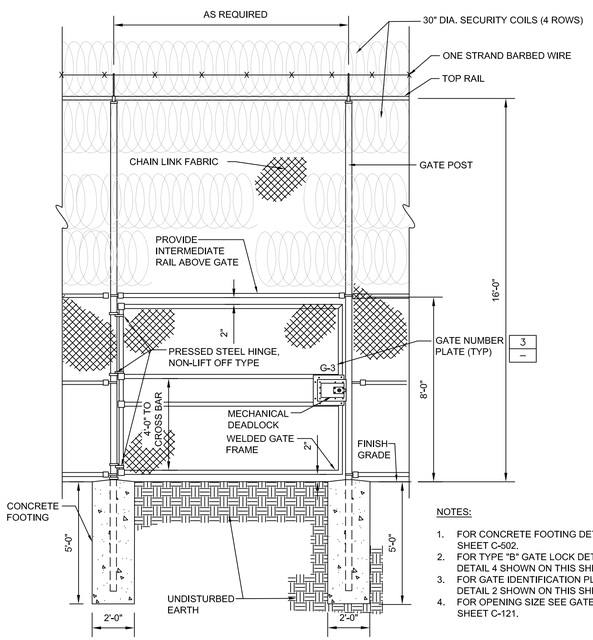
2 / C-504 GATE IDENTIFICATION PLATE

NOT TO SCALE







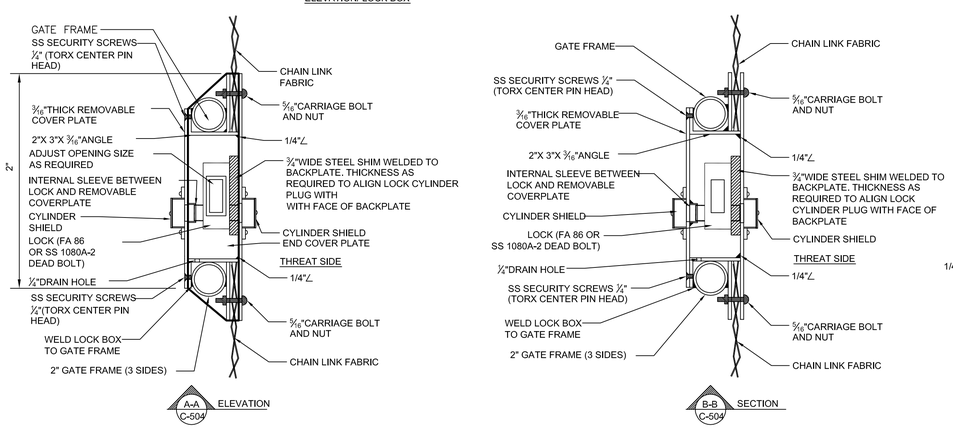


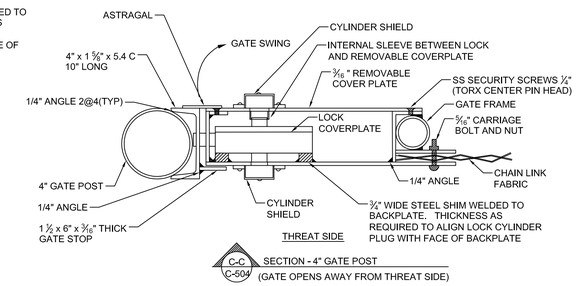
NOTES:

1. FOR CONCRETE FOOTING DETAILS, REFER TO SHEET C-502.
2. FOR TYPE "B" GATE LOCK DETAILS REFER TO DETAIL 4 SHOWN ON THIS SHEET.
3. FOR GATE IDENTIFICATION PLATE, REFER TO DETAIL 2 SHOWN ON THIS SHEET.
4. FOR OPENING SIZE SEE GATE SCHEDULE ON SHEET C-121.

3 / C-504 PERSONNEL GATE - TYPE B IN 16' HIGH FENCE OF VEHICLE COMPOUND

NOT TO SCALE





4 / C-504 TYPE "B" GATE LOCK DETAILS

NOT TO SCALE

REVISED DRAWING 10/16/2015

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS:

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STATE OF NEW YORK · MICHAEL V. TUMULTY · No. 61442 · LICENSED PROFESSIONAL ENGINEER

CONTRACT: CONSTRUCTION

TITLE: MAJOR BUILDING RENOVATION FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION: NYS OFFICE OF MENTAL HEALTH MANHATTAN PSYCHIATRIC CENTER WARDS ISLAND, NY

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
12	10/16/2015	ADDENDUM 12
	6-15-2015	BID DOCUMENT

PROJECT NUMBER:	44578
DESIGNED BY:	KR
DRAWN BY:	MG
FIELD CHECK:	NA
APPROVED:	MT

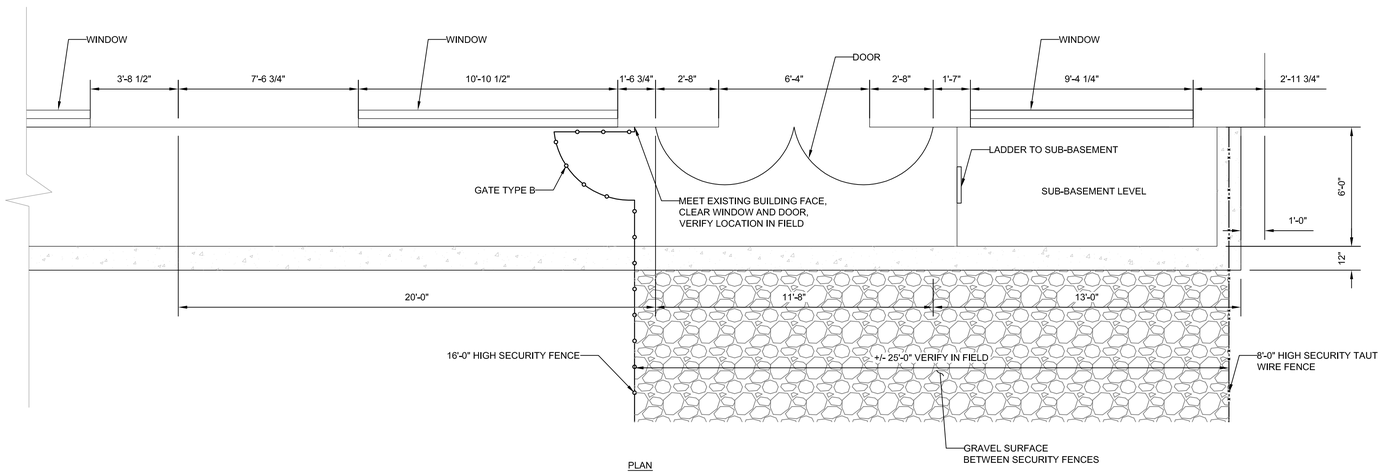
SHEET TITLE:

FENCE DETAILS (SHEET 3 OF 5)

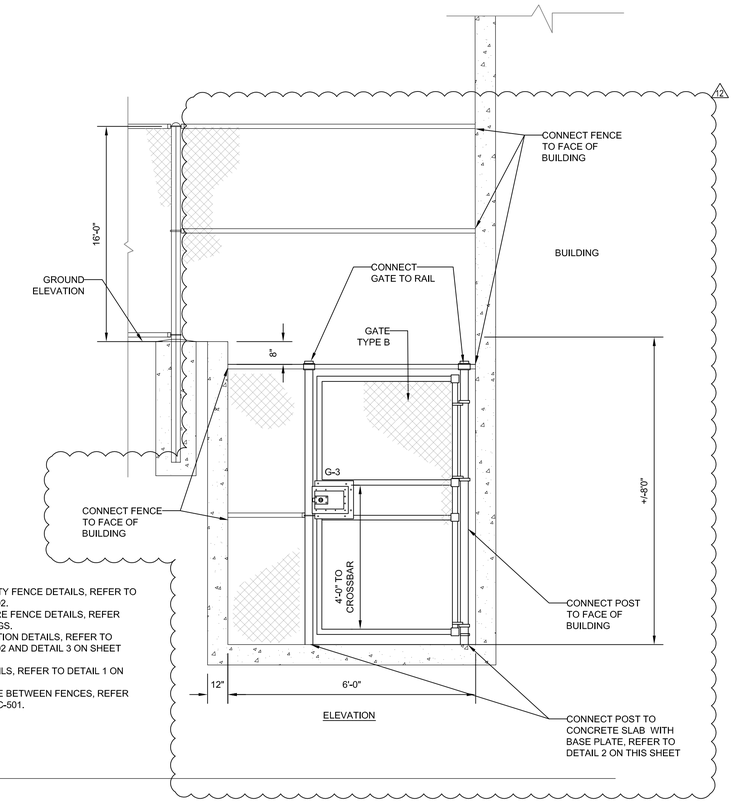
BUILDING NUMBER:

DRAWING NUMBER: C-504

SHEET OF



PLAN

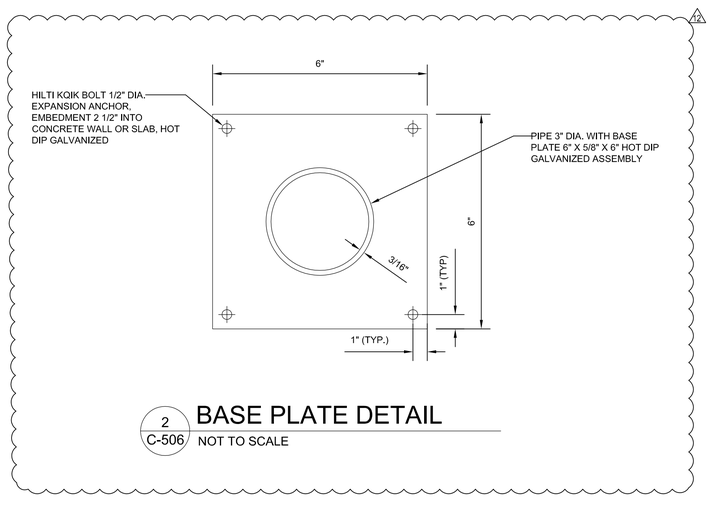


ELEVATION

NOTE:
1. FOR 16'-0" HIGH SECURITY FENCE DETAILS, REFER TO DETAIL 1 ON SHEET C-502.
2. FOR 8'-0" HIGH TAUT WIRE FENCE DETAILS, REFER THE SECURITY DRAWINGS.
3. FOR BUILDING CONNECTION DETAILS, REFER TO DETAIL 2 ON SHEET C-502 AND DETAIL 3 ON SHEET C-503.
4. FOR GATE TYPE B DETAILS, REFER TO DETAIL 1 ON SHEET C-504.
5. FOR STONE AGGREGATE BETWEEN FENCES, REFER TO DETAIL 8 ON SHEET C-501.

1 / C-506 SECURITY FENCE CROSSING BUILDING 106 AREAWAY

NOT TO SCALE



2 / C-506 BASE PLATE DETAIL

NOT TO SCALE

REVISED DRAWING 10/16/2015

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS:

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STATE OF NEW YORK · MICHAEL V. TURCO · LICENSED PROFESSIONAL ENGINEER · No. 61442

CONTRACT: CONSTRUCTION

TITLE: MAJOR BUILDING RENOVATION FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION: NYS OFFICE OF MENTAL HEALTH MANHATTAN PSYCHIATRIC CENTER WARDS ISLAND, NY

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
12	10/16/2015	ADDENDUM 12
	6-15-2015	BID DOCUMENT

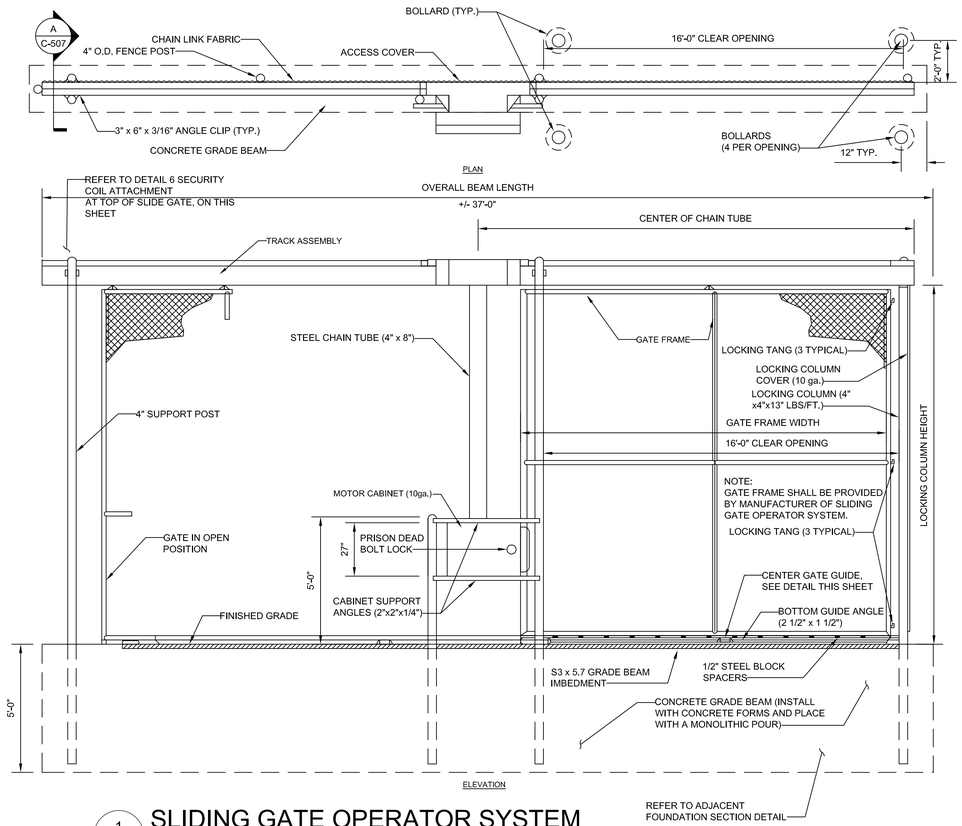
PROJECT NUMBER:	44578
DESIGNED BY:	KR
DRAWN BY:	MG
FIELD CHECK:	NA
APPROVED:	MT

SHEET TITLE: FENCE DETAILS (SHEET 5 OF 5)

BUILDING NUMBER:

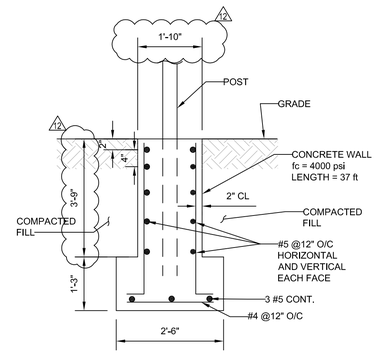
DRAWING NUMBER: C-506

SHEET OF

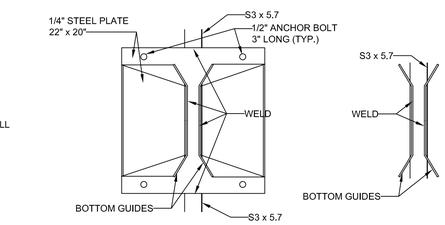


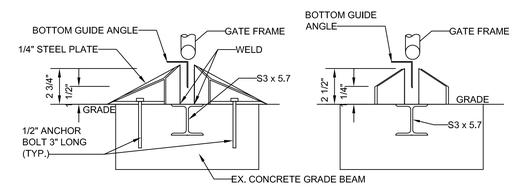
1 C-507 SLIDING GATE OPERATOR SYSTEM

GATE G-1 SHOWN, GATE G-2 OPPOSITE HAND



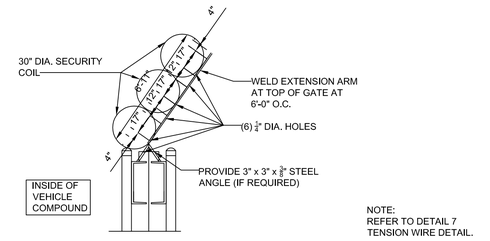
A C-507 FOUNDATION SECTION FOR SLIDING GATE





2 C-507 CENTER GATE GUIDE

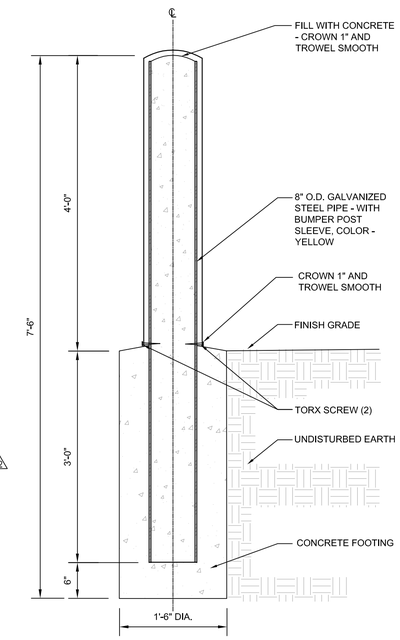
NOT TO SCALE



NOTE:
REFER TO DETAIL 7
TENSION WIRE DETAIL.

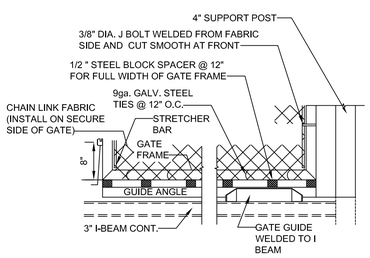
3 C-507 SECURITY COIL ATTACHMENT

AT TOP OF SLIDE GATE



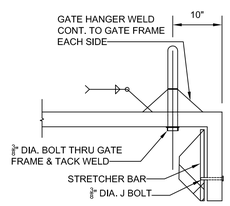
8 C-507 PIPE BOLLARD

NOT TO SCALE



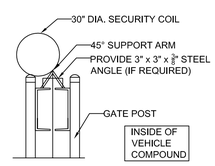
4 C-507 GATE GUIDE & FABRIC ATTACHMENT DETAIL

NOT TO SCALE



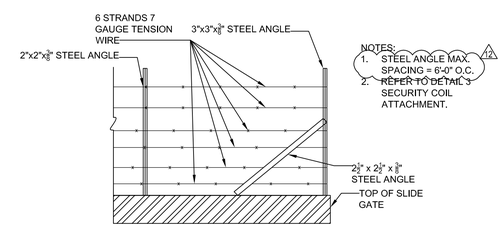
5 C-507 GATE HANGER DETAIL

NOT TO SCALE



6 C-507 SECURITY COIL ATTACHMENT

AT TOP OF SLIDE GATE



7 C-507 TENSION WIRE DETAIL

NOT TO SCALE

REVISED DRAWING 10/16/2015

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS:

RBSD ARCHITECTS P.C. | STV 100 Years

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STATE OF NEW YORK · MICHAEL V. TUMULTY · No. 61442 · LICENSED PROFESSIONAL ENGINEER

CONTRACT:
CONSTRUCTION

TITLE:
MAJOR BUILDING RENOVATION FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION:
NYS OFFICE OF MENTAL HEALTH
MANHATTAN PSYCHIATRIC CENTER
WARDS ISLAND, NY

CLIENT:
NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
12	10/16/2015	ADDENDUM 12
	6-15-2015	BID DOCUMENT

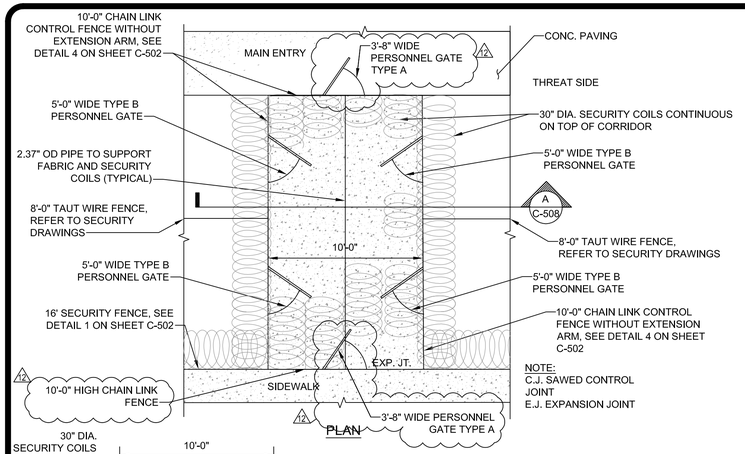
PROJECT NUMBER:	44578
DESIGNED BY:	KR
DRAWN BY:	MG
FIELD CHECK:	NA
APPROVED:	MT

SHEET TITLE:
SECURITY SLIDING GATE DETAILS

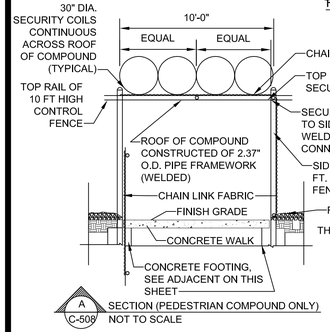
BUILDING NUMBER:

DRAWING NUMBER: C-507

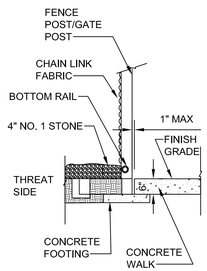
SHEET OF



PLAN

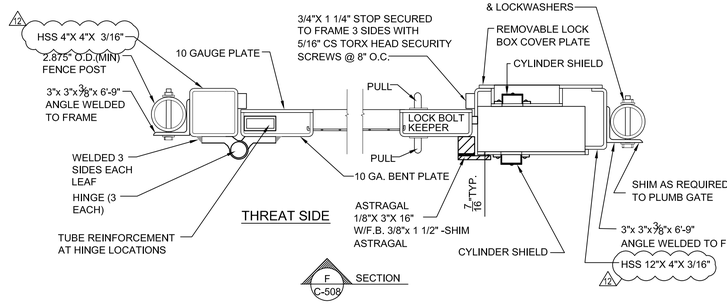


A C-508 SECTION (PEDESTRIAN COMPOUND ONLY)
NOT TO SCALE

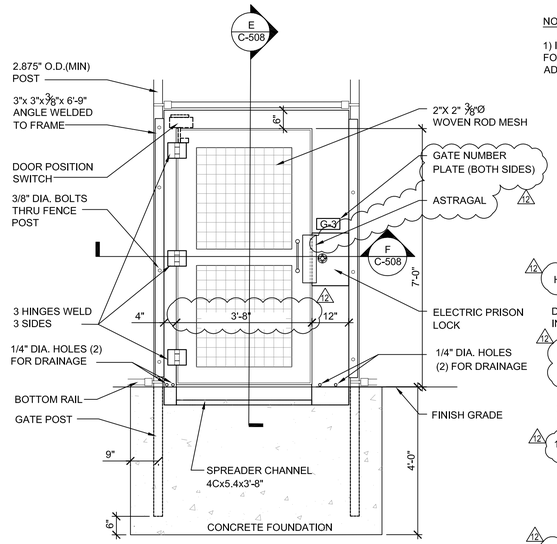


CONCRETE FOOTING DETAIL
NOT TO SCALE

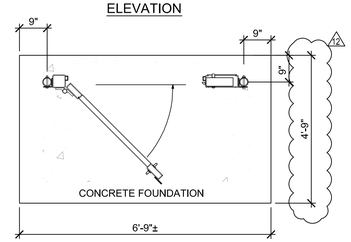
1 C-508 PEDESTRIAN COMPOUND
NOT TO SCALE



F C-508 SECTION



ELEVATION



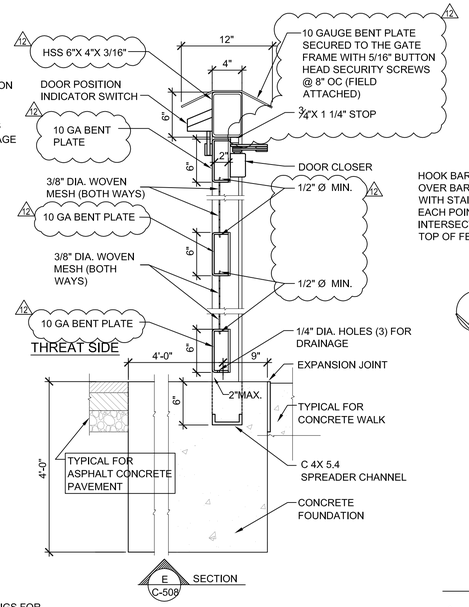
PLAN

NOTE:

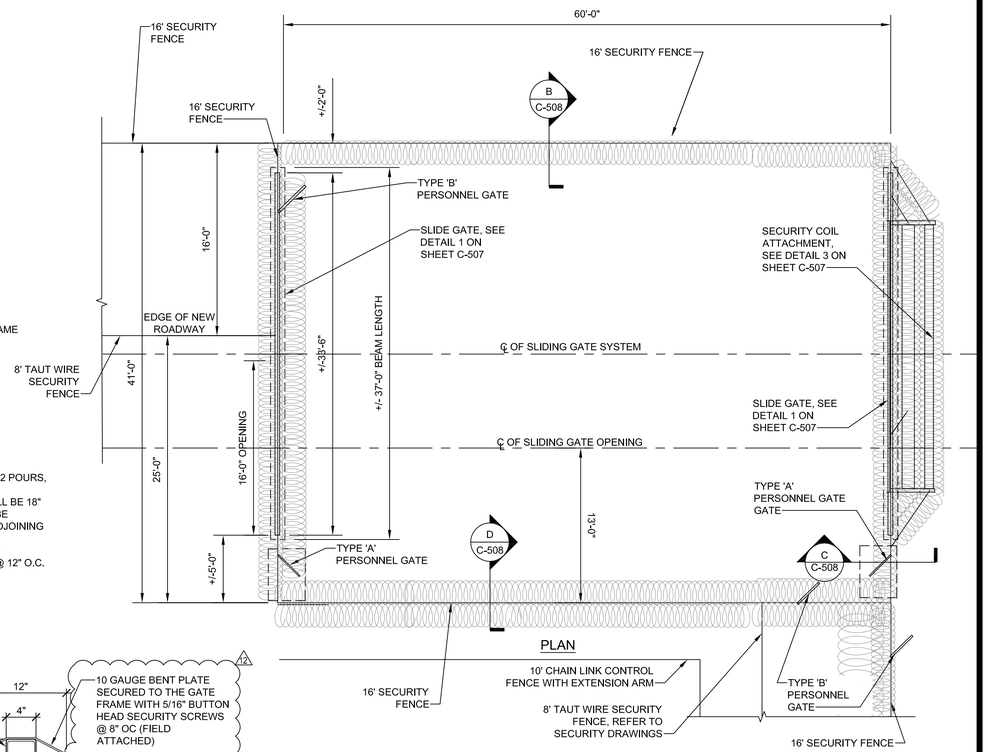
1. CONDUIT TO PENETRATE CONCRETE FOUNDATION. REFER TO ELECTRICAL DRAWINGS FOR POWERING OF GATES.
2. CONDUIT SHALL BE INSTALLED BEFORE CONCRETE FOUNDATION IS POURED.
3. REFER TO SHEET C-504 FOR GATE IDENTIFICATION PLATE DETAILS.
4. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE FOUNDATION REINFORCEMENT.
5. REFER TO SHEET C-509 FOR GATE CONTROL CONSOLE DETAILS.

NOTE:

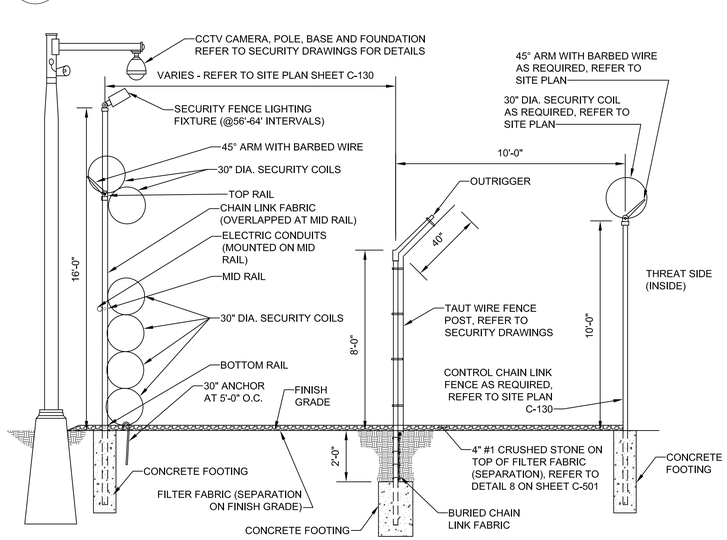
1) IF TYPE "A" CONCRETE GATE FOUNDATION IS CONSTRUCTED IN 2 POURS, ADHERE TO THE FOLLOWING:
A) FINAL (UPPER) POUR SHALL BE 18" THICK MINIMUM AND SHALL BE POURED SEPARATE FROM ADJOINING CONCRETE PAVING.
B) DOWEL SEPARATE POURS TOGETHER WITH #4 REBAR @ 12" O.C.



E C-508 SECTION



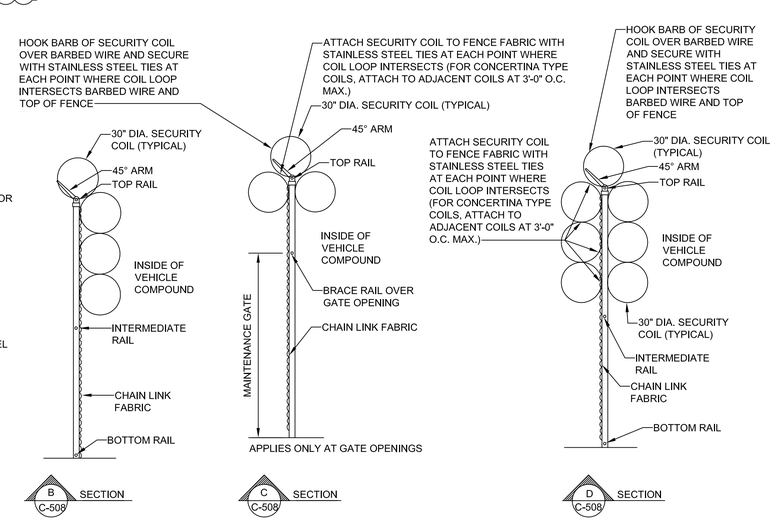
PLAN



2 C-508 TYPICAL MAXIMUM SECURITY
NOT TO SCALE

3 C-508 SECURITY PEDESTRIAN GATE/TYPE 'A' PERSONNEL GATE
NOT TO SCALE

4 C-508 VEHICLE COMPOUND
NOT TO SCALE



FENCE FABRIC SECURITY SECTIONS
NOT TO SCALE

REVISED DRAWING 10/16/2015

NEW YORK STATE OF OPPORTUNITY. Office of General Services
DESIGN & CONSTRUCTION

CONSULTANTS:
RBSD ARCHITECTS P.C. | STV 100 Years
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New York, New York 10003

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STATE OF NEW YORK · MICHAEL V. TUMULTY · No. 61442 · LICENSED PROFESSIONAL ENGINEER

CONTRACT: CONSTRUCTION
TITLE: MAJOR BUILDING RENOVATION FOR THE MANHATTAN FORENSIC RELOCATION
LOCATION: NYS OFFICE OF MENTAL HEALTH MANHATTAN PSYCHIATRIC CENTER WARDS ISLAND, NY
CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
12	10/16/2015	ADDENDUM 12
	6-15-2015	BID DOCUMENT

PROJECT NUMBER:	44578
DESIGNED BY:	KR
DRAWN BY:	MG
FIELD CHECK:	NA
APPROVED:	MT

SHEET TITLE: VEHICLE AND PEDESTRIAN COMPOUND DETAILS
BUILDING NUMBER:
DRAWING NUMBER: C-508
SHEET OF

BP-1 CONFORMED SET

G-001	S-211-2	AD-111-2	MD-009	PD-106-2	ED-113-2
G-002	S-212-2	AD-112-2	MD-100-2	PD-107-2	ED-114-2
G-003	SD-108-2	AD-113-2	MD-101-2	PD-108-2	ED-115-2
G-004	SD-109-2	AD-114-2	MD-102-2	PD-109-2	ED-116-2
G-005	SD-211-2	AD-115-2	MD-103-2	PD-110-2	ED-300
G-006	SD-231-2	AD-116-2	MD-104-2	PD-111-2	FAD-100-2
G-007	AD-100-2	AD-400-2	MD-105-2	PD-112-2	FPT-099-2
S-001	AD-100-2A	AD-401-2	MD-106-2	PD-113-2	FPT-101-2
S-100-2	AD-100-2B	AD-402-2	MD-107-2	PD-114-2	FPT-102-2
S-101-2	AD-100-2C	AD-403-2	MD-108-2	PD-115-2	FPT-103-2
S-102-2	AD-100-2D	AD-800	MD-109-2	PD-116-2	FPT-112-2
S-103-2	AD-100-2E	AD-800.1	MD-110-2	FPD-100-2	FPT-116-2
S-104-2	AD-101-2	WI-100-2	MD-111-2	FPD-101-2	P-4
S-105-2	AD-101-2A	WI-101-2	MD-112-2	FPD-102-2	P-5
S-106-2	AD-101-2B	WI-102-2	MD-113-2	FPD-111-2	P-28
S-107-2	AD-101-2C	WI-400-2	MD-114-2	FPD-112-2	
S-108-2	AD-101-2D	WI-401-2	MD-115-2	FPD-113-2	
S-109-2	AD-101-2E	WI-402-2	MD-116-2	FPD-114-2	
S-211-2	AD-102-2	WI-403-2	MD-117-2	FPD-115-2	
S-212-2	AD-102-2A	WI-801	MD-118-2	FPD-116-2	
S-213-2	AD-102-2B	WI-802	MPH-001	FPD-117-2	
S-214-2	AD-102-2C	SKWI-802	MPH-100	ED-001	
S-301-2	AD-102-2D	H-100-2A	MPH-501-2	ED-100-2	
S-302-2	AD-103-2	H-100-2B	MPH-601-2	ED-101-2	
S-303-2	AD-103-2A	H-100-2A-1	PD-001	ED-102-2	
SD-002	AD-103-2B	H-100-2B-1	FPT-100-2	ED-103-2	
SD-100-2	AD-103-2C	H-101-2A	PD-099-2A	ED-104-2	
SD-101-2	AD-104-2	H-101-2B	PD-099-2B	ED-105-2	
SD-102-2	AD-105-2	H-102-2A	PD-100-2	ED-107-2	
SD-103-2	AD-106-2	H-102-2B	PD-101-2	ED-108-2	
SD-104-2	AD-107-2	H-200	PD-102-2	ED-109-2	
SD-105-2	AD-108-2	H-200-A	PD-103-2	ED-110-2	
SD-106-2	AD-109-2	MD-001	PD-104-2	ED-111-2	
SD-107-2	AD-110-2	MD-002	PD-105-2	ED-112-2	

BP-1 ADDENDUM CONFORMED SET

G-005
G-007
AD-100-2C
AD-100-2D
AD-100-2E
AD-101-2
AD-101-2B
AD-102-2
AD-102-2D
AD-800
SKWI-802
WI-402-2
WI-403-2
MPH-001
FPT-100-2
FPT-101-2
FPT-102-2
PD-001
PD-100-2
PD-101-2

BULLETIN 12 DRAWINGS

AD-300-2
AD-302-2
AD-303-2
AD-304-2

IF DRAWINGS

IF-100-2A
IF-100-2B
IF-100-2C
IF-100-2D
IF-100-2E
IF-100-6B
IF-101-2A
IF-101-2B
IF-101-2C
IF-101-2D
IF-101-2E
IF-102-2A
IF-102-2B
IF-102-2C
IF-102-2D
IF-103-2
IF-104-2
IF-105-2
IF-106-2
IF-107-2
IF-108-2
IF-109-2
IF-110-2
IF-111-2
IF-112-2
IF-113-2
IF-114-2
IF-115

Q0763 DRAWINGS

CONSTRUCTION SCHEDULE
A-001
A-002
A-003
A-004
A-005
A-101
A-102
A-103
A-104
A-105
A-106
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A-109
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A-202
A-203
A-204
A-501
A-502
A-503
A-510
A-511
A-512
A-513
A-514
A-515

ISSUED IN ADDENDUM 9

S-304-2

ADDENDUM DRAWING 10/16/2015

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS:

RBSD ARCHITECTS PC | STV 100 Years

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CONTRACT: CONSTRUCTION

TITLE: MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION: MANHATTAN PSYCHIATRIC CENTER, BUILDING No. 102
600 EAST 125TH STREET WARDS ISLAND, NY10035

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
A12	10-16-2015	ADDENDUM # 12
A11	10-12-2015	ADDENDUM # 11
A9	10-05-2015	ADDENDUM # 9
A8	9-24-2015	ADDENDUM # 8
A6	9-03-2015	ADDENDUM # 6
A5	8-12-2015	ADDENDUM # 5
	6-15-2015	BID DOCUMENT

PROJECT NUMBER: 44578
DESIGNED BY: MAK / WW
DRAWN BY: LR / LM / WW / JS / JM / DF / YB / YK
FIELD CHECK: N/A
APPROVED: WS / MAK / LF

SHEET TITLE:

LIST OF DRAWINGS FOR REFERENCE ONLY

BUILDING NUMBER: 102

DRAWING NUMBER: G-002-6

SHEET

10/19/2015 6:28:30 PM

DRAWING LIST

T-001	TELECOM DRAWING LIST, LEGEND AND GENERAL NOTES
T-100-2	TELECOM BASEMENT PLAN
T-100-2A	TELECOM BASEMENT PLAN, PART A
T-100-2B	TELECOM BASEMENT PLAN, PART B
T-100-2C	TELECOM BASEMENT PLAN, PART C
T-100-2D	TELECOM BASEMENT PLAN, PART D
T-100-2E	TELECOM BASEMENT PLAN, PART E
T-101-2	TELECOM FIRST FLOOR PLAN
T-101-2A	TELECOM FIRST FLOOR PLAN, PART A
T-101-2B	TELECOM FIRST FLOOR PLAN, PART B
T-101-2C	TELECOM FIRST FLOOR PLAN, PART C
T-101-2D	TELECOM FIRST FLOOR PLAN, PART D
T-101-2E	TELECOM FIRST FLOOR PLAN, PART E
T-102-2	TELECOM SECOND FLOOR PLAN
T-102-2A	TELECOM SECOND FLOOR PLAN, PART A
T-102-2B	TELECOM SECOND FLOOR PLAN, PART B
T-102-2C	TELECOM SECOND FLOOR PLAN, PART C
T-102-2D	TELECOM SECOND FLOOR PLAN, PART D
T-102-2E	TELECOM SECOND FLOOR PLAN, PART E
T-103-2	TELECOM THIRD FLOOR PLAN
T-103-2A	TELECOM THIRD FLOOR PLAN, PART A
T-103-2B	TELECOM THIRD FLOOR PLAN, PART B
T-103-2C	TELECOM THIRD FLOOR PLAN, PART C
T-103-2D	TELECOM THIRD FLOOR PLAN, PART D
T-103-2E	TELECOM THIRD FLOOR PLAN, PART E
T-104-2	TELECOM FOURTH FLOOR PLAN
T-104-2A	TELECOM FOURTH FLOOR PLAN, PART A
T-104-2B	TELECOM FOURTH FLOOR PLAN, PART B
T-105-2	TELECOM FIFTH FLOOR PLAN
T-105-2A	TELECOM FIFTH FLOOR PLAN, PART A
T-105-2B	TELECOM FIFTH FLOOR PLAN, PART B
T-106-2	TELECOM SIXTH FLOOR PLAN
T-106-2A	TELECOM SIXTH FLOOR PLAN, PART A
T-106-2B	TELECOM SIXTH FLOOR PLAN, PART B
T-107-2	TELECOM SEVENTH FLOOR PLAN
T-107-2A	TELECOM SEVENTH FLOOR PLAN, PART A
T-107-2B	TELECOM SEVENTH FLOOR PLAN, PART B
T-108-2	TELECOM EIGHTH FLOOR PLAN
T-108-2A	TELECOM EIGHTH FLOOR PLAN, PART A
T-108-2B	TELECOM EIGHTH FLOOR PLAN, PART B
T-109-2	TELECOM NINTH FLOOR PLAN
T-109-2A	TELECOM NINTH FLOOR PLAN, PART A
T-109-2B	TELECOM NINTH FLOOR PLAN, PART B
T-110-2	TELECOM TENTH FLOOR PLAN
T-110-2A	TELECOM TENTH FLOOR PLAN, PART A
T-110-2B	TELECOM TENTH FLOOR PLAN, PART B
T-111-2	TELECOM ELEVENTH FLOOR PLAN
T-111-2A	TELECOM ELEVENTH FLOOR PLAN, PART A
T-111-2B	TELECOM ELEVENTH FLOOR PLAN, PART B
T-112-2	TELECOM TWELFTH FLOOR PLAN
T-112-2A	TELECOM TWELFTH FLOOR PLAN, PART A
T-112-2B	TELECOM TWELFTH FLOOR PLAN, PART B
T-113-2	TELECOM THIRTEENTH FLOOR PLAN
T-113-2A	TELECOM THIRTEENTH FLOOR PLAN, PART A
T-113-2B	TELECOM THIRTEENTH FLOOR PLAN, PART B
T-114-2	TELECOM FOURTEENTH FLOOR PLAN
T-114-2A	TELECOM FOURTEENTH FLOOR PLAN, PART A
T-114-3B	TELECOM FOURTEENTH FLOOR PLAN, PART B
T-115-2	TELECOM FIFTEENTH FLOOR PLAN
T-115-2A	TELECOM FIFTEENTH FLOOR PLAN, PART A
T-115-2B	TELECOM FIFTEENTH FLOOR PLAN, PART B
T-116-2	TELECOM SIXTEENTH FLOOR PLAN
T-116-2A	TELECOM SIXTEENTH FLOOR PLAN, PART A
T-116-2B	TELECOM SIXTEENTH FLOOR PLAN, PART B
T-200-2	TELECOM BASEMENT I.T. ROOM SERVING AREA PLAN
T-201-2	TELECOM FIRST FLOOR M.I.S. AND I.T. ROOM SERVING AREA PLAN
T-202-2	TELECOM SECOND FLOOR I.T. ROOM SERVING AREA PLAN
T-203-2	TELECOM THIRD FLOOR I.T. ROOM SERVING AREA PLAN
T-204-2	TELECOM FOURTH FLOOR I.T. ROOM SERVING AREA PLAN
T-205-2	TELECOM FIFTH FLOOR I.T. ROOM SERVING AREA PLAN
T-206-2	TELECOM SIXTH FLOOR I.T. ROOM SERVING AREA PLAN
T-207-2	TELECOM SEVENTH FLOOR I.T. ROOM SERVING AREA PLAN
T-208-2	TELECOM EIGHTH FLOOR I.T. ROOM SERVING AREA PLAN
T-209-2	TELECOM NINTH FLOOR I.T. ROOM SERVING AREA PLAN
T-210-2	TELECOM TENTH FLOOR I.T. ROOM SERVING AREA PLAN
T-211-2	TELECOM ELEVENTH FLOOR I.T. ROOM SERVING AREA PLAN
T-212-2	TELECOM TWELFTH FLOOR I.T. ROOM SERVING AREA PLAN
T-213-2	TELECOM THIRTEENTH FLOOR I.T. ROOM SERVING AREA PLAN
T-214-2	TELECOM FOURTEENTH FLOOR I.T. ROOM SERVING AREA PLAN
T-215-2	TELECOM FIFTEENTH FLOOR I.T. ROOM SERVING AREA PLAN
T-216-2	TELECOM SIXTEENTH FLOOR I.T. ROOM SERVING AREA PLAN
T-401-2	TELECOM ENLARGED I.T. ROOM PLAN
T-402-2	TELECOM ENLARGED I.T. ROOM PLAN
T-403-2	TELECOM ENLARGED I.T. ROOM PLAN
T-404-2	TELECOM ENLARGED I.T. ROOM PLAN
5 T-405-2	TELECOM ENLARGED M.I.S. ROOM PLAN
T-405A-2	TELECOM ENLARGED M.I.S. OFFICE AND M.I.S. ROOM PHASING PLAN
T-406-2	TELECOM ENLARGED I.T. ROOM PLAN
T-407-2	TELECOM ENLARGED I.T. ROOM PLAN
T-408-2	TELECOM ENLARGED I.T. ROOM PLAN
T-409-2	TELECOM ENLARGED I.T. ROOM PLAN
T-410-2	TELECOM ENLARGED I.T. ROOM PLAN
T-411-2	TELECOM ENLARGED I.T. ROOM PLAN
T-412-2	TELECOM ENLARGED I.T. ROOM PLAN
T-413-2	TELECOM ENLARGED I.T. ROOM PLAN
T-414-2	TELECOM ENLARGED I.T. ROOM PLAN
T-415-2	TELECOM ENLARGED I.T. ROOM PLAN
T-416-2	TELECOM ENLARGED ELEC EQUIP AREA PLAN
T-501	TELECOM DETAILS
T-502	TELECOM DETAILS
T-601	TELECOM RISER DIAGRAM
T-602	TELECOM RISER DIAGRAM
T-603	TELECOM RISER DIAGRAM
T-604	TELECOM RISER DIAGRAM
T-605	TELECOM RISER DIAGRAM
T-606	TELECOM RISER DIAGRAM
5 T-607	TELECOM RISER DIAGRAM
TD-100-2	TELECOM BASEMENT DEMOLITION PLAN
TD-101-2	TELECOM FIRST FLOOR DEMOLITION PLAN

REVISED DRAWING 10/16/2015

LEGEND

SYMBOLS	DESCRIPTION
W WP	WALL TELEPHONE OUTLET 1-GANG BACKBOX W/ (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. 1-GANG SINGLE PORT 630B FACEPLATE W/ MOUNTING LUGS. (1) 8P8C RJ45-TYPE CAT-6 JACK. (1) 4UTP CAT-6 CABLE TO SERVING AREA TELECOM / IT ROOM. MOUNTED 48" A.F.F. OR AS INDICATED ON DRAWINGS. WP - WEATHERPROOF
PT	PATIENT WALL MOUNT TELEPHONE OUTLET (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. (1) 4UTP CAT-6 CABLE ROUTED FROM SERVING AREA TELECOM / IT ROOM TO ABOVE THE COUNTERTOP OF THE NEAREST NURSES STATION ON SAME FLOOR. AT NURSES STATION PULL SUFFICIENT CABLE THROUGH BACKBOX TO COMPLETE RUN TO ASSOCIATED PATIENT TELEPHONE OUTLET PLUS ADDITIONAL 48" OF CABLE. LOOP THROUGH BACKBOX UNCUT BY FORMING COIL WITH 24" SLACK IN COUNTERTOP BACKBOX, PULL REMAINDER OF CABLE UNCUT BACK THROUGH CONDUIT AND ON TO PATIENT TELEPHONE LOCATION AND FORM COIL WITH 24" SLACK IN BACKBOX. AT TELEPHONE LOCATION TERMINATE CABLE AT END OF COIL ON (1) 8P8C RJ45-TYPE CAT-6 JACK FOR TESTING (ONLY). TELEPHONE AND TOGGLE SWITCH PROVISION AND FINAL TERMINATION BY OTHERS. SEE DRAWING T-501 FOR TELEPHONE MOUNTING DETAIL. SEE DRAWING T-502 FOR CABLE ROUTING DETAIL.
TS	PATIENT TELEPHONE TOGGLE SWITCH CABLE PATH. 1-GANG BACKBOX W/ (1) 3/4" CONDUIT FROM 3" ABOVE COUNTERTOP TO ABOVE ACCESSIBLE CEILING. STAINLESS STEEL FACEPLATE W/ HOLE FOR STANDARD TOGGLE SWITCH WITH 1/2" STEM. SEE DRAWING T-501 FOR TELEPHONE MOUNTING DETAIL. SEE DRAWING T-502 FOR CABLE ROUTING DETAIL.
FA	RJ31X FIRE ALARM CONTROL PANEL (FACP) OUTLET. (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH OUTLET END ROUTED DIRECTLY INTO FACP HOUSING. (1) SURFACE MOUNT RJ31X JACK HOUSING. (1) 8P8C RJ31X-TYPE CONNECTOR JACK WITH SHORTING BARS. (1) 4UTP CAT-6 CABLE TO SERVING AREA TELECOM / IT ROOM MOUNT INSIDE FACP HOUSING, COORDINATE CONDUIT FACP ENTRY AND PATCH PANEL END AND OUTLET END TERMINATION PIN-OUT WITH RJ31X STANDARD AND WITH FIRE ALARM INSTALLER.
	SIMPLEX COMMUNICATIONS OUTLET 1-GANG BACKBOX W/ (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. 1-GANG 1-PORT FACEPLATE. (1) 8P8C RJ45-TYPE CAT-6 JACK. (1) 4UTP CAT-6 CABLE TO SERVING AREA TELECOM / IT ROOM. MOUNTED 18" A.F.F., OR ABOVE MILLWORK AS INDICATED ON DRAWINGS.
2	DUPLEX COMMUNICATIONS OUTLET 1-GANG BACKBOX W/ (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. 1-GANG 2-PORT FACEPLATE. (2) 8P8C RJ45-TYPE CAT-6 JACKS. (2) 4UTP CAT-6 CABLES TO SERVING AREA TELECOM / IT ROOM. MOUNTED 18" A.F.F., OR ABOVE MILLWORK AS INDICATED ON DRAWINGS.
4	QUAD COMMUNICATIONS OUTLET 2-GANG BACKBOX W/ (2) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. 2-GANG 4-PORT FACEPLATE. (4) 8P8C RJ45-TYPE CAT-6 JACKS. (4) 4UTP CAT-6 CABLES TO SERVING AREA TELECOM / IT ROOM. MOUNTED 18" A.F.F., OR ABOVE MILLWORK AS INDICATED ON DRAWINGS.
PRN	PRINTER COMMUNICATIONS OUTLET 1-GANG BACKBOX W/ 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. 1-GANG 2-PORT FACEPLATE. (1) 8P8C RJ45-TYPE CAT-6 JACK. (1) 6P6C RJ11-TYPE JACK (2) 4UTP CAT-6 CABLES (W/ 4TH PAIR SPARED OFF) TO TELECOM / IT ROOM. MOUNTED 18" A.F.F. UON.
F	MODULAR FURNITURE COMMUNICATIONS OUTLET ROUTE CABLING THRU JUNCTION BOX, WHIP AND INTO MOD FURNITURE RACEWAY. MOD FURNITURE 1-PORT FACEPLATE. (1) 8P8C RJ45-TYPE CAT-6 JACK. (1) 4UTP CAT-6 CABLE TO SERVING AREA TELECOM / IT ROOM. FOR MOUNTING SPECIFICATION SEE DRAWING GENERAL NOTE 11.
J	JUNCTION BOX 2-GANG BACKBOX W/(1) 1 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING. PROVIDE (1) 1 1/2" WHIP FROM BACKBOX TO MOD FURNITURE RACEWAY POINT OF ENTRY. MOUNTED 18" A.F.F., UON.
	CARPET CABLE/FLOOR MOUNT COMMUNICATIONS OUTLET (1) WALL BASE CABLE TRANSITION BACKBOX AND COVER W/(1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. (1) FLOOR MOUNT 2-PORT JACK HOUSING. (2) 8P8C RJ45-TYPE CAT-6 JACKS. (2) LENGTHS OF CAT-6 UNDER CARPET CABLE AND ACCESSORIES. (2) 4-PAIR CAT-6 FLAT TO ROUND CABLE TRANSITION BLOCKS. (2) 4UTP CAT-6 CABLES TO TO SERVING AREA TELECOM / IT ROOM. MOUNTED ON FLOOR SURFACE.
	POKE-THRU COMMUNICATIONS OUTLET POKE-THRU W/ (1) 3/4" CONDUIT BENEATH FLOOR TO ABOVE ACCESSIBLE CEILING. 2-PORT FACEPLATE. (2) 8P8C RJ45-TYPE CAT-6 JACKS. (2) 4UTP CAT-6 CABLES TO TO SERVING AREA TELECOM / IT ROOM. MOUNTED IN POKE-THRU.

LEGEND (CONTINUED)

SYMBOLS	DESCRIPTION
AP	WLAN ACCESS POINT (AP) CEILING OUTLET 1-GANG BACKBOX W/ (1) 3/4" CONDUIT ROUTED TO NEAREST CABLETRAY POINT OF ENTRY. 1-GANG 1-PORT FACEPLATE. (1) 8P8C RJ45-TYPE CAT-6 JACK. (1) 4UTP CAT-6 CABLE TO TO SERVING AREA TELECOM / IT ROOM. MOUNTED ABOVE FINISHED CEILING. MOUNT TO STRUCTURE IN AREAS WITHOUT CEILING TILES.
TV	CATV OUTLET 1-GANG BACKBOX W/ (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. 1-GANG 1-PORT FACEPLATE. (1) F-81 BARREL CONN W/ F-CONNS. (1) RG-6 COAXIAL CABLE TO SERVING AREA TELECOM / IT ROOM. MOUNTED 84" A.F.F., UON
SB	SMARTBOARD OUTLET 1-GANG BACKBOX W/ (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. 1-GANG 1-PORT FACEPLATE. (1) 8P8C RJ45-TYPE CAT-6 JACK. (1) 4UTP CAT-6 CABLE TO TO SERVING AREA TELECOM / IT ROOM. MOUNTED 94" A.F.F., UON.
SAT	SATELLITE TELEPHONE OUTLET 1-GANG BACKBOX W/ (1) 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING. 1-GANG 1-PORT FACEPLATE. (1) 8P8C RJ45 TYPE CAT-6 JACK (1) 4UTP CAT-6 CABLE HOMERUN TO 17TH FLOOR EXISTING SATELLITE TELEPHONE OUTLET IN EXECUTIVE DIRECTOR'S OFFICE TERMINATE ON EXISTING SATELLITE TELEPHONE OUTLET TERMINAL BLOCK MOUNTED 18"A.F.F., UON.
	EMPTY 2-GANG BACKBOX W/ CONDUIT SIZED AND ROUTED AS SHOWN ON ASSOCIATED PROJECT DRAWINGS. 2-GANG BLANK FACEPLATE. MOUNT AS SHOWN ON ASSOCIATED PROJECT DRAWINGS.
PRJ-1	PROJECTOR LINK (PROJECTOR END) SURFACE MOUNT 2-GANG BACKBOX W/ (2) 1" CONDUIT ROUTED TO "PRJ-2" OUTLET BACKBOX INSTALLED IN SAME ROOM. 1-GANG MUDRING W/ FACEPLATE FOR (2) RJ45 AND (1) HDMI. (2) 8P8C RJ45 TYPE CAT-6 JACKS. (2) 4UTP CAT-6 CABLES TO "PRJ-2" OUTLET IN SAME ROOM. (1) HDMI CONNECTOR. (1) HDMI CABLE TO "PRJ-2" OUTLET IN SAME ROOM. MOUNTED ABOVE FINISHED CEILING, UON.
PRJ-2	PROJECTOR LINK (USER INPUT END) 2-GANG BACKBOX W/ (2) 1" CONDUIT ROUTED TO "PRJ-1" OUTLET BACKBOX INSTALLED AT PROJECTOR IN SAME ROOM. 1-GANG MUDRING W/ FACEPLATE FOR (2) CAT-6 AND (1) HDMI. (2) 8P8C RJ45 TYPE CAT-6 JACKS. (2) 4UTP CAT-6 CABLES TO "PRJ-1" OUTLET AT PROJECTOR IN SAME ROOM. (1) HDMI CONNECTOR. (1) HDMI CABLE TO "PRJ-1" OUTLET AT PROJECTOR IN SAME ROOM. MOUNTED 18" A.F.F., UON.
(X'-X" AFF)	12" x 4" OVERHEAD LADDER TYPE CABLE TRAY. SUBSCRIPT INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR.

ABBREVIATIONS LIST

ACEG	ALTERNATING CURRENT EQUIPMENT GROUND	KO	KNOCKOUT
		LAN	LOCAL AREA NETWORK
AFF	ABOVE FINISHED FLOOR	MDF	MAIN DISTRIBUTION FRAME
AP	ACCESS POINT	MM	MULTIMODE
BC	BONDING CONDUCTOR	MOD	MODULE (OR MODULAR)
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS	MTD	MOUNTED
		NA	NOT APPLICABLE
BDF	BUILDING DISTRIBUTION FRAME	NEC	NATIONAL ELECTRIC CODE
BET	BUILDING ENTRANCE TERMINAL	N.I.C.	NOT IN CONTRACT
BICSI	BUILDING INDUSTRY CONSULTING SERVICES INT'L	NTS	NOT TO SCALE
		OSP	OUTSIDE PLANT
BMCS	BUILDING MANAGEMENT AND CONTROL SYSTEM	PB	PULL BOX
		PNL	PANEL
CAB	CABINET	PWR	POWER
CAT	CATEGORY	PRI	PRIMARY
CKT	CIRCUIT	PROT	PROTECTION OR PROTECTIVE
CND	CONDUIT	PSTN	PUBLIC SWITCH TELEPHONE NETWORK
CONN	CONNECTION		
CU	COPPER	RU	RACK UNIT
DEMARC	DEMARCATION	SM	SINGLEMODE
ELEC	ELECTRIC	SP	SERVICE PROVIDER
EM	EMERGENCY	SPEC	SPECIFICATION
EMT	ELECTRIC METALLIC TUBING (THINWALL CONDUIT)	STA	STATION
		SYS	SYSTEM
EQUIP	EQUIPMENT	TBB	TELECOM BONDING BACKBONE
EXT	EXTERIOR	TEL	TELEPHONE
FLR	FLOOR	TER	TELECOM EQUIPMENT ROOM
FO	FIBER OPTIC	TERM	TERMINAL
FOC	FIBER OPTIC CABLE	TGB	TELECOM GROUNDING BAR
FURN	FURNITURE	TMH	TELECOMMUNICATIONS MANHOLE
GE	GROUNDING EQUALIZER	TMGB	TELECOM MAIN GROUNDING BAR
GEC	GROUNDING ELECTRODE CONDUCTOR	TR	TELECOM ROOM
		UL	UNDERWRITER'S LABORATORIES
GRD, GND	GROUND	UON	UNLESS OTHERWISE NOTED
GRSC	GALVANIZED RIGID STEEL CONDUIT	UTP	UNSHIELDED TWISTED PAIR
HH	HANDHOLE	W	WALL MOUNT TELEPHONE
IDF	INTERMEDIATE DISTRIBUTION FRAME	W/	WITH
IMC	INTERMEDIATE METALLIC CONDUIT	WLAN	WIRELESS LAN
ISP	INSIDE PLANT	WP	WEATHERPROOF
JB	JUNCTION BOX		

COLOR CODE FOR LOW VOLTAGE SYSTEM WIRING

SYSTEM	WIRE COLOR	NOTES
PERSONAL ALARM	YELLOW	1. WHITE AND GRAY COLOR WIRES, OF ANY TYPE, ARE PROHIBITED ON THE PROJECT WITHOUT THE WRITTEN PERMISSION OF THE OWNER OR OWNER'S REPRESENTATIVE. ANY PROHIBITED WIRING INSTALLED WITHOUT WRITTEN PERMISSION WILL BE REMOVED AT THE EXPENSE OF THE CONTRACTOR. 2. THE ABOVE NOTED COLOR CODE SYSTEM IS APPLICABLE TO COMPONENTS OF CONDUCTOR RACEWAY SYSTEMS INCLUDING BUT NOT LIMITED TO COLOR IDENTIFICATION OF EVERY GANG BOX, JUNCTION BOX, PULL BOX, TERMINAL BOX AND ONCE PER LENGTH OF CONDUIT.
SECURITY: DATA	GREEN	
SECURITY: COAX	BLACK	
SECURITY: LOW VOLTAGE POWER	BROWN	
FIRE ALARM / FIRE PROTECTION	RED	
TELECOMMUNICATION / DATA	BLUE	
PAGING	ORANGE	
BMS	PURPLE	

ELEVATION COMPONENT SCHEDULE

#	COMPONENT DETAIL	COMPONENT DESCRIPTION	RMS
1		19" x 84"H x 3"D 2-POST DATA RELAY RACK CPI PN: 55053-703 W/ 80.5"H x 6"W x 9.8"D VERTICAL CABLE MANAGEMENT CAGE CPI PN: 13902-703	42 (MIN) PER SIDE
2		BLANK 2RU 3.5" x 19" PANEL	2
3		CABLE MANAGEMENT PANEL (1.7"H x 3.5"D) 19" RACK MOUNT	1 (MAX)
4	UPS (N.I.C.)	UNINTERRUPTED POWER SUPPLY (UPS) PROVIDED BY OTHERS (N.I.C.) 19" RACK MOUNT	2 (MAX)
5		SINGLEMODE BACKBONE 48-PORT FIBER CABINET 19" RACK MOUNT W/ LC TYPE CONNECTOR COMPONENTS	4 (MAX)
6		SINGLEMODE BACKBONE 24-PORT FIBER CABINET 19" RACK MOUNT W/ LC TYPE CONNECTOR COMPONENTS	2 (MAX)
7		MULTIMODE BACKBONE 24-PORT FIBER CABINET 19" RACK MOUNT W/ LC TYPE CONNECTOR COMPONENTS	2 (MAX)
8		SINGLEMODE BACKBONE 12-PORT FIBER CABINET 19" RACK MOUNT W/ LC TYPE CONNECTOR COMPONENTS	1 (MAX)
9		MULTIMODE BACKBONE 12-PORT FIBER CABINET 19" RACK MOUNT W/ LC TYPE CONNECTOR COMPONENTS	1 (MAX)
10		4-PAIR WLAN AP CABLES (ONLY) 24-PORT CAT-6 UTP PATCH PANEL 19" RACK MOUNT	2 (MAX)
11		4-PAIR HORIZONTAL DISTRIBUTION 24-PORT CAT-6 UTP PATCH PANEL 19" RACK MOUNT	2 (MAX)
12		MULTI-PAIR COPPER BACKBONE 48-PORT TELCO TYPE PATCH PANEL 19" RACK MOUNT	4 (MAX)
13		MULTI-PAIR COPPER BACKBONE 24-PORT TELCO TYPE PATCH PANEL 19" RACK MOUNT	2 (MAX)
14		TMGB - TELECOM MAIN GROUND BUSBAR MINIMUM 4" WIDTH LENGTH SIZED PER TERMINATIONS	N/A
15		TGB - TELECOM GROUND BUSBAR MINIMUM 4" WIDTH LENGTH SIZED PER TERMINATIONS	N/A
16		CATV - 16-PORT RG-6 F-81 BARREL CONNECTOR PANEL WITH WALL MOUNT STANDOFFS	N/A
17		CATV RG11 15 FOOT LENGTH, 36" DIAMETER (MAXIMUM) COAXIAL BACKBONE CABLE COIL TO BE TERMINATED BY CATV VENDOR	N/A
18		110 -100 TERMINAL CONNECTOR BLOCK W/ STANDOFFS AND C5 TYPE CONNECTORS INSERTS. MOUNT BLOCK 66" A.F.F. UON.	N/A
19	VG-224	VG-224 ANALOG TELEPHONE ADAPTER (ATA) PROVIDED BY OTHERS (N.I.C.)	N/A
20		24 PORT ATA PATCH PANEL PROVIDED BY OTHERS (N.I.C.)	N/A
21		DATA RACK GROUNDING BUSBAR	1 (MAX)
22		SINGLEMODE BACKBONE 6-PORT FIBER CABINET 19" RACK MOUNT W/ LC TYPE CONNECTOR COMPONENTS	1 (MAX)
23		SINGLEMODE BACKBONE 6-PORT FIBER CABINET WALL MOUNT CORNING PN: SPH-01P W/ LC-TYPE CONN PANEL CORNING PN: CCH-CP06-A9-P03RH (OR EQUAL)	1 (MAX)
24		MEDIA CONVERTER 10/100/1000 BASE T/1000 BASE X TRANSITION NETWORKS PN: M/GE-PSW-LX-01 WITH: 1 EACH 12VDC 400mA AC POWER ADAPTER 1 EACH WALL MOUNT BRACKET PN: WMBM 1 EACH 18" LC/SC DUPLEX OS2 PATCH CABLE 1 EACH 18" RJ45/RJ45 CAT-6 PATCH CABLE	N/A
25		2-PORT SURFACE MOUNT JACK HOUSING LEVITON PN: 41089-2GP W/ TWO (2) CAT-6 RJ-45 JACKS LEVITON PN: 61110-RG6	N/A
26		FOUR (4) RECEPTACLE POWER STRIP WALL MOUNT TYPE WITH 6 FOOT CORD TRIPPLITE PN: PS120406	N/A
27		SMALL PERIPHERAL EQUIPMENT SHELF 19" RACK MOUNT CPI PN: 10758-701	2 (MAX)
28		20"H x 20"W x 8"D NEMA 4X STAINLESS STEEL CONTINUOUS HINGE WALL MOUNT ENCLOSURE WITH 17"H x 17"W 3/4" PLYWOOD BACK PANEL HOFFMAN PN: A20H2008SS6LP	N/A

GENERAL NOTES:

1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST CODES, RULES, AND ORDINANCES OF THE STATE OF NEW YORK AS WELL AS THE LATEST OSHA, EIA/TIA AND NEC STANDARDS, GUIDELINES, REQUIREMENTS AND CODES.
2. ALL TELECOMMUNICATIONS DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE PROJECT ARCHITECTURAL, MEP AND CIVIL DRAWINGS AND SPECIFICATIONS AND ALL OTHER DRAWINGS AND SPECIFICATIONS RELATED TO THE PERFORMANCE OF THIS WORK.
3. REFER TO ELECTRICAL, CIVIL, STRUCTURAL, ARCHITECTURAL, MECHANICAL, FIRE ALARM AND SECURITY DRAWINGS PRIOR TO START OF WORK AND COORDINATE WITH ALL TRADES TO VERIFY TELECOMMUNICATIONS CABLE TRAYS IN MIS ROOM, TELEPHONE CLOSETS, IT/SECURITY ROOMS AND ALL OTHER BUILDING SPACES ARE LOCATED AS REQUIRED AND ARE PLACED TO CLEAR DUCTS, PIPING, EQUIPMENT, AND OTHER OBSTRUCTIONS IN ALL SPACES SHARED WITH OTHER TRADES.
4. ALL MATERIALS AND EQUIPMENT USED ON THIS PROJECT SHALL BE NEMA APPROVED AND HAVE APPROVAL OF A NATIONALLY RECOGNIZED TESTING LAB.
5. CONDUIT, CABLE TRAY AND CABLING SHOWN ON DRAWINGS ARE ONLY DIAGRAMMATIC AND DO NOT INDICATE ALL RESPECTIVE BENDS, ASSEMBLIES, FITTINGS, MOUNTING HARDWARE AND BOXES WHICH MAY BE REQUIRED. THE TELECOM SUBCONTRACTOR SHALL PROVIDE AND INSTALL CONDUITS, CABLE TRAY AND CABLES ARE INSTALLED AND ROUTED AS REQUIRED EXERCISING GOOD WORKMANSHIP AND IN COMPLIANCE WITH ALL APPLICABLE CODE. 5
6. THE TELECOM SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATIONS AND COORDINATION OF ALL DIMENSIONS, SIZES, SYSTEM VOLTAGES, QUANTITIES, AND EXTENT OF WORK. THE TELECOM SUBCONTRACTOR SHALL CAREFULLY EXAMINE THE ARCHITECTURAL, CIVIL, ELECTRICAL, STRUCTURAL, MECHANICAL, PIPING, FIRE ALARM, BMS AND SECURITY DRAWINGS IN FULL AND UNDERSTAND THE NATURE AND SCOPE OF WORK. THESE DRAWINGS ARE STRICTLY SCHEMATIC, AND A COMPLETE COORDINATED, FUNCTIONAL, AND CODE/EIA-TIA INDUSTRY STANDARDS COMPLIANT SYSTEM IS INTENDED.
7. THE TELECOM SUBCONTRACTOR SHALL REFER TO THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, FIRE ALARM AND SECURITY DRAWINGS AND SPECIFICATIONS FOR COORDINATION AND EXTENT OF THE WORK OF THE VARIOUS TRADES.
8. WHERE THE WORK OF THIS TRADE WILL INTERFACE WITH THE WORK OF OTHER TRADES, ALL TRADES SHALL ASSIST IN COORDINATING SPACE CONDITIONS, MAKE SATISFACTORY ADJUSTMENTS, AND REVISE AND SUBMIT COORDINATED INSTALLATION DRAWINGS.
9. TELECOM SUBCONTRACTOR SHALL INSTALL PER INDUSTRY BEST PRACTICES AND PER INSTALLATION METHODS IDENTIFIED IN THE PROJECT SPECIFICATION DOCUMENTS.
10. THE TELECOM SUBCONTRACTOR SHALL PROVIDE AND LABEL ALL PENETRATION FIRE STOPPING FOR THE TELECOMMUNICATIONS ISP BACKBONE AND ISP HORIZONTAL DISTRIBUTION CABLE INFRASTRUCTURE. 5
11. AT MODULAR FURNITURE AND CASEWORK LOCATIONS THE TELECOM SUBCONTRACTOR SHALL PROVIDE APPROPRIATE SIZED BACK BOX WHIP ASSEMBLY FACEPLATE AND PROVIDE WHIP FROM THE BACK BOX FACEPLATE ASSEMBLY TO THE MODULAR FURNITURE RACEWAY OR CASEWORK POINT OF ENTRY. ROUTE TELECOMMUNICATIONS CABLING FROM THE BACK BOX, THROUGH THE WHIP AND INTO THE MODULAR FURNITURE OR CASEWORK CABLE PATHWAY. IN MODULAR FURNITURE, TELECOMMUNICATIONS CABLING SHALL BE TERMINATED IN A MODULAR FURNITURE RACEWAY COMPATIBLE FLUSH MOUNT FACEPLATE. IN CASEWORK, TELECOMMUNICATIONS CABLING SHALL BE TERMINATED IN SURFACE MOUNT BACK BOX SECURED TO CASEWORK 1'-6" A.F.F. UNLESS OTHERWISE NOTED.
12. THE PROJECT WILL MAINTAIN A STRICT COLOR CODE FOR ALL LOW VOLTAGE SYSTEMS (NOT INCLUDING ELECTRIC LIGHT AND POWER) THROUGHOUT THE CAMPUS. THE TELECOM SUBCONTRACTOR SHALL PROVIDE CABLING IN THE COLOR INDICATED IN THE "COLOR CODE FOR LOW VOLTAGE SYSTEM WIRING" TABLE SHOWN ON THIS SHEET (T-001).
13. THE TELECOMMUNICATIONS WORK SPECIFIED HEREIN IS A PART OF PRIME CONTRACT 44578. THE TERM "TELECOM SUBCONTRACTOR" IS USED THROUGHOUT THESE DRAWINGS TO INDICATE THAT THE TELECOM INSTALLER IS A SUBCONTRACTOR TO THE PRIME CONTRACTOR TO PERFORM THE TELECOMMUNICATIONS INSTALLATION WORK REQUIRED UNDER PRIME CONTRACT 44578. 6

TELECOM CABLE INFRASTRUCTURE AND COMPONENT INSTALLATION RESPONSIBILITY MATRIX

LINE #	COMPONENT	PROVIDED BY * GC CONTRACT	PROVIDED BY * SECURITY CONTRACT	PROVIDED BY OWNER / OWNER'S REP.	NOTES
1	PSA MONITOR CABLING	X			
2	PSA HARDWARE & CONNECTIONS			X	
3	CATV MONITOR CABLING	X			
4	CATV HARDWARE & CONNECTIONS			X	
5	PSA & CATV MONITOR BLOCKING	X			
6	INTERCOM & PA-SYSTEM		X		
7	PERSONAL ALARM SYSTEM		X		
8	ACCESS CONTROL SYSTEM		X		
9	INTRUSION DETECTION SYSTEM		X		
10	TEL SERVICE / ORDER & COORD. INSTALL			X	
11	DATA SERVICE / ORDER & COORD. INSTALL			X	
12	POTS LINES / ORDER & COORD. INSTALL			X	
13	LIGHTING CONTROL COMM OUTLET(S)	X			
14	FACP COMM OUTLET(S)	X			
15	SECURITY SYSTEM COMM OUTLET(S)	X			
16	CORES - TELECOM VERTICAL & HRZNTL	X			
17	CABLETRAY - TELECOM VERTICAL & HRZNTL	X			
18	J-HOOKS - TELECOM CABLE SUPPORTS	X			
19	CONDUIT STUB-UPS @ TELECOM OUTLETS	X			
20	1 & 2 GANG BACKBOXES @ TELECOM OUTLETS	X			
21	J-BOXES FOR TELECOM PATHWAY	X			
22	J-BOX WHIPS FOR TELECOM PATHEWAY	X			
23	MDF & IDFs PLYWOOD BACKBOARDS	X			
24	120 VAC POWER FOR TELECOM	X			
25	TELECOM GRND BUSBARS (TMGB & TGBs)	X			
26	TELECOM GRND BACKBONES & EQUALIZER	X			
27	ELECTRICAL PANEL GRND CONNECTIONS	X			
28	TELECOM GRND SYS MAIN SRVC CONNECTION	X			
29	TELECOM GRND CONDUCTORS IN MDF & IDFs	X			
30	PATIENT TEL (PT) WALL FRAMING & BLOCKING	X			
31	PT-TOGGLE SWITCH (PROVIDE & INSTALL)			X	
32	PATIENT TELEPHONE (PROVIDE AND INSTALL)			X	
33	ELECTRICAL UNDER-CARPET CABLING	X			
34	TELECOM UNDER-CARPET CABLING	X			
35	PATCH CABLES (FIBER OPTIC AND COPPER)			X	
36	POKE-THRU ASSEMBLY(S) FOR TELECOM	X			
37	WLAN PRE-INSTALL PREDICTIVE PROP. REPORT			X	
38	WLAN AP COMM OUTLETS	X			
39	WLAN AP DEVICES (PROVIDE & INSTALL)			X	
40	WLAN POST-INSTALL PROPAGATION REPORT			X	
41	PROJECTOR - IN RM. CONNECTIVITY LINK	X			
42	SAT-TEL OUTLET AND EXISTING SYS LINK	X			

* REFER TO ARCHITECTURAL, TELECOMMUNICATIONS, ELECTRICAL AND SECURITY DRAWINGS AND SPECIFICATION DOCUMENTS TO DETERMINE EXTENT OF RESPECTIVE SCOPE OF WORK.

NEW YORK STATE OF OPPORTUNITY. Office of General Services

DESIGN & CONSTRUCTION

CONSULTANTS:

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WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

CONTRACT: CONSTRUCTION

TITLE: MAJOR BUILDING RENOVATIONS FOR THE MANHATTAN FORENSIC RELOCATION

LOCATION: MANHATTAN PSYCHIATRIC CENTER, BUILDING No. 102, 600 EAST 125TH STREET WARDS ISLAND, NY 10035

CLIENT: NYS OFFICE OF MENTAL HEALTH

MARK	DATE	DESCRIPTION
12	10/16/2015	ADDENDUM 12
6	9-3-2015	ADDENDUM 6
5	8-12-2015	ADDENDUM 5
	6-15-2015	Bid Document

PROJECT NUMBER:	44578
DESIGNED BY:	S. McCLURE
DRAWN BY:	D. BAVER
FIELD CHECK:	NA
APPROVED:	F. TAMAYO

SHEET TITLE: TELECOM DRAWING LIST, LEGEND AND GENERAL NOTES

BUILDING NUMBER: 102

DRAWING NUMBER: T-001

SHEET

10/19/2015 10:36:04 AM