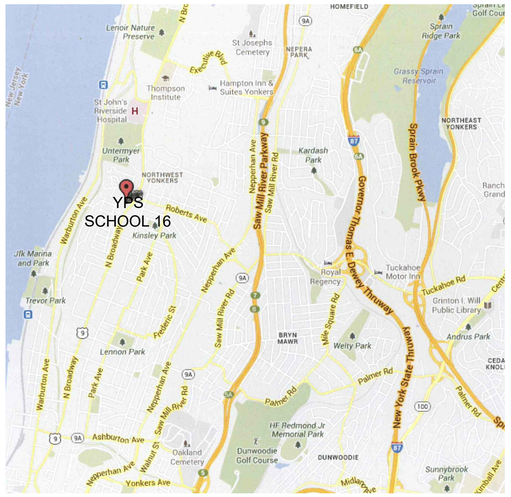
NO.	ISSUANCE	DATE	REVISION
1	SED FOR BUILDING PERMIT	01/14/2019	
2	ISSUED FOR BID	09/15/2019	
3	ISSUED FOR BID	11/16/2020	

LIST OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	CONTRACT WORK #
GENERAL		
	YPS PROJECT TITLE SHEET	
G-001	GENERAL NOTES, SYMBOLS, LEGENDS AND ABBREVIATIONS	
CIVIL		
C-100	DRAINAGE IMPROVEMENTS PLAN AND DETAILS	
HAZARDOUS MATERIALS		
AA100	PART BASEMENT ABATEMENT PLAN	
AA101	PART FIRST FLOOR ABATEMENT PLAN	
ARCHITECTURAL		
A-032	SITE DETAILS	
A-100	BASEMENT AND FIRST FLOOR LEVEL REMOVAL PLANS AND SCOPE NOTES	
A-101	BASEMENT AND FIRST FLOOR LEVEL CONSTRUCTION PLAN AND SCOPE NOTES	
A-200	EXTERIOR ELEVATIONS - NORTH	
A-201	EXTERIOR ELEVATIONS - WEST	
A-202	EXTERIOR ELEVATIONS - SOUTH	
A-203	EXTERIOR ELEVATIONS - EAST	
A-800	DOOR SCHEDULE, MILLWORK DETAILS AND INTERIOR ELEVATIONS	
A-801	BASEMENT AND FIRST FLOOR FINISH PLANS	
A-802	GYM INTERIOR ELEVATIONS & INTERIOR DETAILS	
HVAC		
H101.00	LEGEND, NOTES, PART BASEMENT PLANS SCHEDULES AND NOTES	
H102.00	SCHEDULES AND DETAILS	
PLUMBING		
P101.00	LEGEND, PART BASEMENT PLANS, SCHEDULES AND NOTES	
ELECTRICAL		
E001.00	LEGEND, ABBREVIATIONS AND GENERAL NOTES	
E101.00	BASEMENT AND FIRST FLOOR ELECTRICAL REMOVALS PLAN	
E102.00	FIRST FLOOR REMOVAL PLAN	
E103.00	SECOND FLOOR REMOVAL PLAN	
E201.00	BASEMENT AND FIRST FLOOR ELECTRICAL LIGHTING PLAN	
E301.00	BASEMENT AND PARTIAL FIRST FLOOR ELECTRICAL POWER PLAN	
E302.00	FIRST FLOOR ELECTRICAL PLAN	
E303.00	SECOND FLOOR ELECTRICAL PLAN	
E601.00	ELECTRICAL SCHEDULES RISER AND DETAILS	
E602.00	ELECTRICAL DETAILS	
SECURITY		
SE-000	COVER SHEET/LEGEND AND INDEX	
SE-100	SECURITY UPDATE PROJECT - BASEMENT	
SE-101	SECURITY UPDATE PROJECT - FIRST FLOOR	
SE-102	SECURITY UPDATE PROJECT - SECOND FLOOR	
SE-200-B	SECURITY RISER DIAGRAM - FIRST FLOOR & SECOND FLOOR	
SE-201-B	SECURITY RISER DIAGRAM - SECOND FLOOR & THIRD FLOOR	
SE-300	CLOSET ELEVATIONS	
SE-303	CCTV ONE LINE DIAGRAM	
SE-700	ISTAR - VERALL SCHEMATIC SECURITY	
SE-701	DEVICE & POWER CONNECTION	
SE-702A	ULTRA SE TYPICAL WIRING DIAGRAM FRO 16 CR DOORS W/ MOTION REX	
SE-702B	ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ BUILT-IN REX	
SE-703	SECURITY EQUIPMENT DETAIL 1 - (DOOR TYPICALS)	
SE-703A	SECURITY EQUIPMENT DETAIL 1A - (DOOR TYPICALS)	
SE-704	SECURITY EQUIPMENT DETAIL 2 - (ACCESS DEVICE TYPICALS)	
SE-705	SECURITY EQUIPMENT DETAIL 3 - (DEVICE TYPICALS)	
SE-706	SECURITY EQUIPMENT DETAIL 4 - (CCTV TYPICALS)	



PROJECT LOCATION MAP
SCALE: N.T.S.

DESIGN TEAM

ARCHITECT

CPL Architecture Engineering Planning

332 ROUTE 100
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YONKERS PUBLIC SCHOOLS

One Larkin Center, Yonkers, New York 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY AND SITE *SCHOOL 16*

YONKERS PUBLIC SCHOOLS

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Executive Director
School Facilities Management

SED # 66-23-00-01-0-016-009

YPS JOB # 10845

NOV. 16, 2020

REGISTERED ARCHITECT
DAVID JOHN RAMUSE
023158
STATE OF NEW YORK

D:\YPS - YPS - School 16 - Phase 3\Drawings\GS Drawings\YPS PROJECT TITLE SHEET.dwg

ABBREVIATIONS:

&	—	AND
AC	—	AIR CONDITIONING UNIT (S)
ACM	—	ASBESTOS CONTAINING MATERIAL
ACT	—	ACOUSTICAL CEILING TILE
ADJ	—	ADJACENT
AFF	—	ABOVE FINISH FLOOR
AHU	—	AIR HANDLER UNIT
ALUM	—	ALUMINUM
ALT	—	ALTERNATE
APPROX	—	APPROXIMATE
ARCH	—	ARCHITECTURAL
AVG	—	AVERAGE
BITUM	—	BITUMINOUS
BLDG	—	BUILDING
BLK	—	BLOCK
CB	—	CATCH BASIN
CLG	—	CEILING
C.H	—	CEILING HEIGHT
C.J.	—	CONTROL JOINT
CL	—	CENTER LINE
CLO	—	CLOSET
C.O	—	CLEAN OUT
COL	—	COLUMN
CONC	—	CONCRETE
CONST	—	CONSTRUCTION
CONT	—	CONTINUOUS
CONTR	—	CONTRACTOR
CR	—	CLASSROOM
CT	—	CERAMIC TILE
CU FT	—	CUBIC FEET
D/DIA	—	DIAMETER
dB	—	DECIBEL
DEG	—	DEGREE
DEMO	—	DEMOLITION
D.F.	—	DRINKING FOUNTAIN
D.H.	—	DOUBLE HUNG
DIM	—	DIMENSION
DN	—	DOWN
D.O	—	REPEAT/DOOR OPENING
DP	—	DEEP
DR	—	DOOR
DWG	—	DRAWING
E	—	EAST
EA	—	EACH
E.C.	—	ELECTRICAL CONTRACTOR
E.F	—	EXHAUST FAN
EFF	—	EFFICIENCY
E.J	—	EXPANSION JOINT
EQ	—	EQUAL
ELEC	—	ELECTRICAL
EL/ELEV	—	ELEVATION
ENCL.	—	ENCLOSURE
ENTR.	—	ENTRANCE
EQUIP	—	EQUIPMENT
ETC	—	AND SO FORTH
ETR	—	EXISTING TO REMAIN
EXH	—	EXHAUST
EXIST	—	EXISTING
EXP	—	EXPANSION
EXT	—	EXTERIOR
F	—	FAHRENHEIT
F.A.I.	—	FRESH AIR INTAKE
F.D.	—	FLOOR DRAIN
F.E.	—	FIRE EXTINGUISHER
FIN	—	FINISH
FIXT	—	FIXTURE
FL/FLR	—	FLOOR
FTG	—	FOOTING
F.P.	—	FIRE PROOF
FT	—	FOOT OR FEET
GA	—	GAUGE
GAL	—	GALLONS
GALV	—	GALVANIZED
G.C	—	GENERAL CONSTRUCTION
GEN	—	GENERAL
GL	—	GLASS
GYP. BD	—	GYPSUM BOARD
H	—	HEIGHT
H.B.	—	HOSE BIB
HC	—	HEATING, VENTING, AND AIR CONDITIONING CONTRACTOR
H.C	—	HOLLOW CORE
HD	—	HEAD
H.M	—	HOLLOW METAL
HORIZ	—	HORIZONTAL
H.P	—	HIGH POINT
HR	—	HOUR (S)
HT	—	HEAT
HTR	—	HEATER
HV	—	HEATING/VENTILATION UNIT
ID	—	INSIDE DIAMETER
INT	—	INTERIOR
INSUL	—	INSULATION
INV	—	INVERT
IN	—	INCH
J.C	—	JANITOR'S CLOSET
JT	—	JOINT
J.B	—	JUNCTION BOX
KIT	—	KITCHEN
L	—	LENGTH
LAM	—	LAMINATE
LAV	—	LAVATORY
LAVPAB	—	LIQUID APPLIED VAPOR PERMEABLE AIR BARRIER
LBS/#	—	POUNDS
L.C.C	—	LEAD COATED COPPER
LDR	—	LEADER
LF	—	LINEAR FEET
LL	—	LIVE LOAD
LP	—	LOW POINT
M	—	MIRROR
MAX	—	MAXIMUM
MAT	—	MATERIAL
MECH	—	MECHANICAL
MFR	—	MANUFACTURER
MIN	—	MINIMUM
MISC	—	MISCELLANEOUS
MO	—	MASONRY OPENING
MH	—	MAN HOLE
MTD	—	MOUNTED
MTL	—	METAL
N	—	NORTH
N/A	—	NOT APPLICABLE
N.I.C	—	NOT IN CONTRACT
NO (S)	—	NUMBER(S)
N.T.S	—	NOT TO SCALE
OC	—	ON CENTER
OD	—	OUTSIDE DIAMETER
OH	—	OVERHEAD
OPNG	—	OPENING
OPP	—	OPPOSITE
OZ	—	OUNCE
PART	—	PARTIAL
PC	—	PLUMBING CONTRACTOR
PLT	—	PLATE
PLUMB	—	PLUMBING
PLYWD	—	PLYWOOD
PNL	—	PANEL
PNT	—	PAINT
PREFAB	—	PREFABRICATED
PT	—	PAINT
QT	—	QUARRY TILE
QTY	—	QUANTITY
R	—	RISER/RADIUS
RD	—	ROOF DRAIN
REINF	—	REINFORCED
REQ'D	—	REQUIRED
RO	—	ROUGH OPENING
RM	—	ROOM
RTU	—	ROOF TOP UNIT
S	—	SINK
SAN	—	SANITARY
SCHED	—	SCHEDULE
SD	—	SMOKE DETECTOR
SECT	—	SECTION
SF	—	SQUARE FOOT
SHT	—	SHEET
SIM	—	SIMILIAR
SPEC(S)	—	SPECIFICATION (S)
SQ	—	SQUARE
SQ FT	—	SQUARE FEET
SS	—	STAINLESS STEEL
STD	—	STANDARD
STL	—	STEEL
STM	—	STEAM
STOR	—	STORAGE
STRUCT	—	STRUCTURAL
SUSP	—	SUSPENDED
T	—	TREAD/TOILET
T.D.	—	TRENCH DRAIN
TEL	—	TELEPHONE
TEMP	—	TEMPERED
TEMPR.	—	TEMPERATURE
THK	—	THICK
T.O.C.	—	TOP OF CURB
T.O.P.	—	TOP OF PARAPET
T.O.S.	—	TOP OF STEEL
TYP	—	TYPICAL
U	—	URINAL
UH	—	UNIT HEATER
UL	—	UNDERWRITERS LABORATORY
UNFIN	—	UNFINISHED
UV	—	UNIT VENTILATOR
V	—	VOLT
VAV	—	VARIABLE AIR VOLUME
V.C.T	—	VINYL COMPOSITION TILE
VD	—	VOLUME DAMPER
VEST	—	VESTIBULE
V.I.F	—	VERIFY IN FIELD
VOL	—	VOLUME
V.P.	—	VISION PANEL
V.W.C.	—	VINYL WALL COVERING
W	—	WOMEN/WIDTH/WASHER
W/	—	WITH
W.C.	—	WATER CLOSET
WD	—	WOOD
W.G.	—	WIRE GLASS
WK	—	WORK
W.I.	—	WROUGHT IRON
W.P.	—	WATER PROOF
W.R.	—	WATER RESISTANT
WTR	—	WATER
W.W.F.	—	WELDED WIRE FABRIC
W.W.M.	—	WELDED WIRE MESH
YD	—	YARD DRAIN

MATERIALS LEGEND:

- BRICK
- BATT INSULATION
- CONTINUOUS WOOD FRAMING THROUGH MEMBER.
- CONCRETE
- METALS
- PARTICLE BOARD
- RIGID INSULATION (PLAN)
- RIGID INSULATION (SECTION)
- COMPACTED GRAVEL
- METAL STUDS
- EARTH/UNDISTURBED SOIL
- STONE
- CRUSHED STONE
- CONC. MASONRY UNITS (PARTITION TYPE)
- NEW PARTITION (PARTITION TYPE)
- NEW LOW PARTITION (PARTITION TYPE)
- WOOD FRAMING — INTERRUPTED MEMBER
- FINISHED WOOD
- ACOUSTICAL TILE

GRAPHIC LEGEND:

- SHEET NO. / INTERIOR ELEVATIONS / DRAWING NUMBER
- WALL SECTION
- DETAIL NUMBER / DRAWING NUMBER — DETAIL REFERENCE
- REMOVE EXISTING CONSTRUCTION
- EXISTING CONSTRUCTION
- WORK SCOPE NOTE
- REVISION MARK
- ROOM NAME / ROOM NO. — ROOM DESIGNATION
- INDICATES HIDDEN LINE — ABOVE, BELOW, BEHIND, OR ITEMS TO BE REMOVED
- EXTERIOR ELEVATIONS
- EXISTING DOOR ASSEMBLY
- CENTERLINE OR N.I.C.
- DOOR TO BE INSTALLED INDICATES DOOR NUMBER (SEE SCHEDULE)
- ELEV. 102'-6" — ELEVATION REFERENCE
- MATCH LINE
- REFERENCE TO DETAILED DRAWING

GENERAL NOTES:

1. ALL DETAILS AND/OR PART OF DETAILS ARE SIMILAR FOR SIMILAR LOCATIONS IN ALL OR PART OF THE DETAIL.
2. EACH CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON THE JOB SITE.
3. INDICATED DIMENSIONS ARE TO :
   A. FACE OF MASONRY OR CONCRETE AND FACE OF METAL STUDS.
   B. CENTER LINES.
4. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
5. ANY VARIATION FROM CONDITIONS SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER . AFFECTED WORK SHALL NOT PROCEED UNTIL CLARIFICATION HAS BEEN RECEIVED.
6. ALL WORK IS TO CONFORM TO I.B.C. — OCCUPANCY E AND THE STATE EDUCATION DEPARTMENT PLANNING STANDARDS. IN CASES OF CONFLICT IN OR BETWEEN CODES, THE MORE STRINGENT CODE SHALL APPLY.
7. USE ONLY NEW MATERIALS AND EQUIPMENT WITHOUT DEFECTS.
8. DISCREPANCIES AND OMISSIONS ON DRAWINGS AND SPECIFICATIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER IN WRITING FOR CLARIFICATION.
9. SET ALL WORK STRAIGHT, PLUMB AND LEVEL OR WITH INDICATED SLOPE.
10. EACH CONTRACTOR IS TO USE THE APPROVED STANDARDS: A.I.S.C. FEDERAL, U.S., ETC. STANDARDS OF THEIR TRADES. ALL CONSTRUCTION SHALL BE PERFORMED TO THESE STANDARDS.
11. IF AMBIGUITIES EXIST IN THE CONTRACT DOCUMENTS, THE THE CONTRACTOR SHALL INCLUDE IN HIS BID THE MORE EXPENSIVE METHOD OF WORK.
12. THE GENERAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS EXCEPT FOR HAZARDOUS MATERIALS REMOVED UNDER ABATEMENT CONTRACT.
13. LARGE SCALE DETAILS HAVE PRECEDENCE, HOWEVER WORK INDICATED ON SMALL SCALE DRAWINGS SHALL NOT BE OMITTED. SIMILARLY, NOTES TAKE PRECEDENCE OVER SCHEDULES, PIPING AND WIRE DIAGRAMS. HOWEVER WORK SHOWN OR DESCRIBED BY OTHER METHODS SHALL NOT BE OMITTED.
14. CUT AND PATCH ALL EXISTING FINISHES AS REQUIRED BY NEW WORK. MATCH AND FINISH TO PRESENT FINISHED SURFACES OR AS INDICATED.
15. ALL NEW WALLS, AND PARTITIONS AS NOTED SHALL BE CARRIED UP AND BE SECURED TIGHTLY TO ROOF DECK, FLOOR DECK AND SLAB UNLESS OTHERWISE SPECIFIED.
16. GENERAL CONTRACTOR TO FLASH PATCH CONCRETE SLABS THAT ARE TO RECEIVE FINISH FLOORING AS REQUIRED BY GENERAL CONTRACTOR.
17. BY SUBMISSION OF THE BID OR PROPOSAL, THE UNDERSIGNED BIDDER AND THE PERSON OR PERSONS SIGNING ON BEHALF OF THE BIDDER, AND SHOULD EACH BID BE A JOINT BID, EACH PARTY THERETO, CERTIFIES AS TO ITS OWN ORGANIZATION, UNDER PENALTY OR PERJURY, THAT TO THE BEST OF KNOWLEDGE AND BELIEF:
   A. THE PRICES IN THIS BID HAVE BEEN ARRIVED AT INDEPENDENTLY WITHOUT COLLUSION, CONSULTATION, COMMUNICATION, OR AGREEMENT FOR THE PURPOSE OF RESTRICTING COMPETITION, AS TO ANY MATTER RELATING TO SUCH PRICES WITH ANY OTHER BIDDER OR WITH ANY COMPETITOR;
   B. UNLESS OTHERWISE REQUIRED BY LAW, THE PRICES WHICH HAVE BEEN QUOTED IN THIS BID HAVE NOT BEEN KNOWINGLY DISCLOSED BY THE BIDDER PRIOR TO OPENING, DIRECTLY OR INDIRECTLY, TO ANY OTHER BIDDER NOR TO ANY COMPETITOR ; AND NO ATTEMPT HAS BEEN MADE OR WILL BE MADE BY THE BIDDER TO INDUCE ANY OTHER PERSON, PARTNERSHIP OR CORPORATION TO SUBMIT OR NOT TO SUBMIT A BID FOR THE THE PURPOSE OF RESTRICTING COMPETITION.

WARNING:
IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, TO ALTER ANY ITEM ON THESE DRAWINGS IN ANY WAY. IF ALTERATIONS TO THESE DRAWINGS MUST BE MADE, THEY MUST BE MADE IN ACCORDANCE WITH ARTICLE 145, SUBSECTION 7209, OF THE NEW YORK STATE EDUCATION LAW.

YONKERS PUBLIC SCHOOLS

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

REGISTERED ARCHITECT DAVID JOHN RAMEL 023158 STATE OF NEW YORK

KEY PLAN
PROJECT NORTH

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CIVIL ENGINEER CONSULTANT
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MECHANICAL ELECTRICAL CONSULTANT
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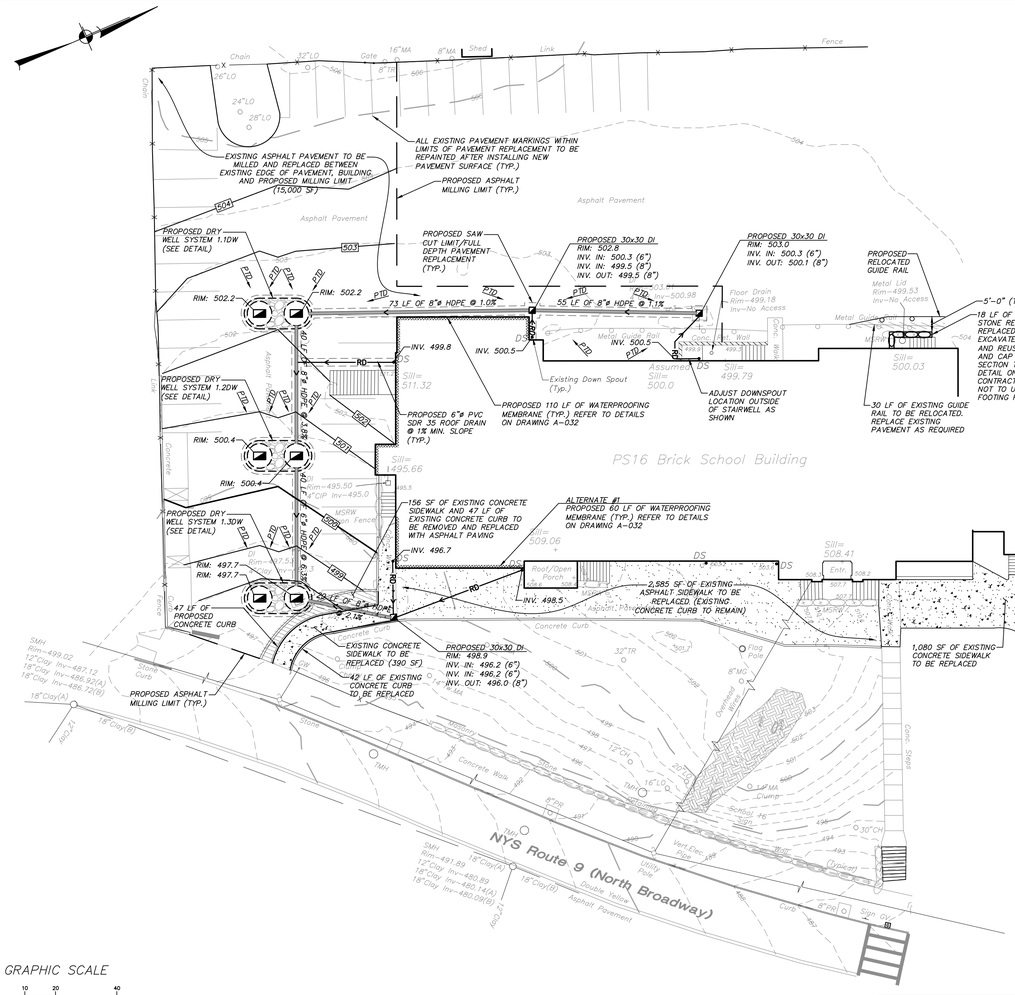
39 MARBLE AVE PEARLS RIVER, NY 10970
PHONE: 914.328.6060 FAX: 914.328.9304 General@BGA-Eng.com

REV. NO.	DATE	DESCRIPTION
	01/23/19	SED FOR BUILDING PERMIT
	09/15/19	ISSUED FOR BID
	11/16/20	ISSUED FOR BID

SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

DRAWING TITLE
GENERAL NOTES SYMBOLS, LEGENDS AND ABBREVIATIONS

SHEET NO.
G-001



LEGEND

- EXISTING BUILDING
- EXISTING STONE & MASONRY RETAINING WALL
- EXISTING CHAIN LINK FENCE
- EXISTING GUIDE RAIL
- EXISTING CONCRETE CURB
- EXISTING UTILITY POLE AND OVERHEAD WIRES
- EXISTING SIGN
- EXISTING 5' CONTOUR
- EXISTING 1' CONTOUR
- EXISTING SPOT GRADE
- EXISTING TREE
- PROPOSED 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED DRAIN INLET
- PROPOSED HDPE DRAINAGE PIPE (SIZE AS NOTES)
- PROPOSED 6"ø PVC SDR 35 ROOF DRAIN
- PROPOSED CONCRETE CURB
- PITCH TO DRAIN

GENERAL NOTES:

1. Existing conditions shown on the Drainage Improvements Plan taken from field survey work by Insite Engineering, Surveying & Landscape Architecture, P.C. dated September 13, 2019. Elevations shown are referenced to an arbitrary datum. The contour interval is 1'.

STORMWATER DESIGN NOTES:

1. The proposed stormwater management practices shown hereon have been sized using the "HydroCAD" Stormwater Modeling System, by HydroCAD Software Solutions LLC in Tamworth, New Hampshire. HydroCAD is a computer aided design program for modeling the hydrology and hydraulics of stormwater runoff.
2. The proposed dry well system has been sized to fully infiltrate the stormwater runoff from the contributing area for the 1-year, 24-hour storm event.
3. An infiltration rate of 6 inches per hour was used for the modeling of the proposed dry wells. The infiltration rate was interpolated from boring results provided by Tectonic Engineering & Surveying Consultants P.C. in the general area of the proposed dry wells.
4. For larger storm events, the stormwater runoff not infiltrated by the proposed dry wells will overflow out of the top of the proposed dry well structures and sheet flow overland from west to east across the parking lot to North Broadway to match the existing conditions onsite.

CONSTRUCTION SEQUENCE:

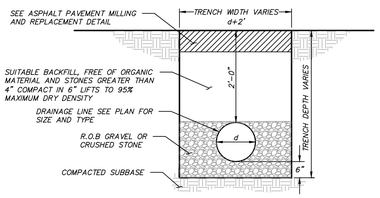
1. Remove the existing pavement in the area of the proposed drainage improvements.
2. Excavate for the proposed dry wells and install dry well structures and surrounding stone.
3. Install remaining drainage improvements.
4. Install asphalt pavement and concrete surfaces.

CONSTRUCTION NOTES:

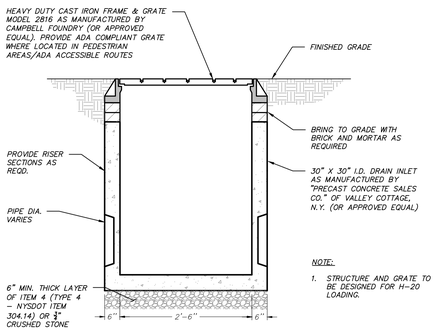
1. The contractor shall be responsible for guarding and protecting all open excavations in accordance with the latest edition and current OSHA requirements.
2. Existing pavement that is to remain which is removed or damaged during the construction work of this contract is to be restored to its original condition, or better.
3. Unless otherwise shown on the drawings the contractor shall match the material, thickness and quality of all existing pavements that are to be replaced.
4. It shall be the contractor's responsibility to identify and protect all underground utilities. The contractor shall contact Dig Safely New York at 811 or 1-800-962-7962 and any other required utility locators prior to the start of construction.
5. When structures are to be placed on existing utility lines or where the proposed utility lines are assume to cross existing utilities, the contractor shall locate the existing utility and shall verify its existing invert elevation. The Contractor shall notify the architect/engineer if different utility invert elevations or locations are revealed by field exploration.
6. The exact location, size, and type of the existing utilities may differ from what is shown hereon. The contractor shall field verify the location size and type of the existing utilities ahead of construction as necessary to permit revisions to meet existing utilities or relocate proposed utilities as required.
7. The contractor shall coordinate their construction operations with any other construction activities and/or events/activities occurring simultaneously on PS-16 property.
8. The contractor shall coordinate the layout of the work with the owner, and the project architect/engineer, and eliminate all conflicts including but not limited to utility location conflicts, prior to commencement of any proposed work. The contractor shall expose pertinent existing utilities far enough ahead of construction to verify the size, type, location and invert of the existing utility, and eliminate any conflicts without resulting in a delay in work.
9. The contractor shall field verify the existing grades/utility locations prior to commencement of any work. Any discrepancy shall be reported to the owner and project engineer when identified.
10. All vehicle and pedestrian traffic shall be maintained as directed by the owner and/or the project architect/engineer.
11. All existing vegetation not proposed to be removed shall be protected from damage, and if damaged replaced at the contractor's expense.
12. All existing concrete curb not proposed to be removed shall be protected from damage during construction, and if damaged replaced at the contractor's expense to original condition.
13. Original condition shall mean the condition in which the feature was found (or better) at the start of construction.
14. The contractor shall provide all removals incidental and necessary to execute the work prescribed in the contract documents. All existing features specified to be removed shall be removed in their entirety unless otherwise authorized in writing by the owner or the project engineer.
15. The contractor will be held responsible for all damage caused to existing utilities/features/facilities during execution of the work not proposed to be modified or removed by this contract. All damage to any existing utilities/features/facilities not proposed to be modified by the contract shall be repaired or replaced by the contractor to the satisfaction of the owner at no additional cost.
16. The contractor will be responsible for the implementation of all maintenance and protection of traffic (MP&T) measures if necessary. MP&T shall include but not be limited to placement of traffic cones and warning signs around work zone.
17. Safe and adequate pedestrian vehicular traffic flow shall be maintained at all times to the existing buildings, while the work is in progress. The contractor shall submit for approval of the Architect, a construction sequence schedule and plan for pedestrian and vehicular traffic flow.
18. The contractor shall assure that no silt laden runoff will cross disturbance limit line and/or enter any drainage system (existing or new alike).
19. The contractor shall be responsible for the implementation of erosion and sediment controls as necessary to prevent erosion and migration of sediment outside of the contract limit line or into the stormwater collection system. Erosion and sediment controls may include but are not limited to silt fence, stabilized construction entrance, and inlet protection. All erosion and sediment controls shall be installed in accordance with the New York State Standards and Specifications for Erosion and Sediment Control. Additional erosion and sediment controls may be required during construction by the project engineer.
20. There shall be no burying of construction and demolition (C&D) debris on site. All C&D debris and stumps must be removed by the contractor, and disposed of in accordance with all pertinent regulations.
21. The contractor shall notify the architect and/or construction mgr. 72 hours prior to start of work.
22. Pavement shall be kept clean at all times.
23. Any stockpiled materials shall be tarped if left overnight.
24. Contractor shall match existing grade for asphalt and concrete surfaces to be replaced unless otherwise noted on the Drainage Improvements Plan.

REMOVAL NOTES

1. Prior to submitting the bid the contractor shall visit the site and familiarize himself/herself with the site conditions and existing improvements to be removed.
2. The contractor shall verify existing conditions and dimensions in the field before commencing with any fabrication, ordering of material, or performing work. The contractor shall notify the architect/engineer of any conditions or dimensions that would hamper the performance of the work in accordance with the contract drawings and specifications.
3. The locations of existing utilities, water, sewers, and drainage structures have been indicated based on the best available information provided by the utilities surveyors and architect. It is possible that the actual subsurface utilities and piping may vary from that indicated. Therefore, prior to starting work in any area, the contractor shall take the necessary steps to determine the locations of all existing underground piping, conduit and structures. The contractor shall carry out his operations in such a manner as to prevent interference with lines which are to remain alone. any pipe or conduit disturbed in the course of contract shall be repaired by the contractor at no extra cost to the owner.
4. All existing utilities shall be marked out by the contractor prior to any construction activities.
5. All adjacent areas outside of the disturbance limit line and disturbed during the course of construction, shall be repaired to new condition by the contractor at no additional cost to the owner.
6. All areas not covered by pavements and damaged during the course of construction shall be topsoiled and either seeded or sodded in accordance with the plans and specifications.
7. Where construction crosses or is adjacent to existing utility lines (fuel, water gas, telephone, electric or communication) the contractor shall carefully hand excavate so as to locate, mark and protect the utility lines against disturbance or damage by providing adequate support and protection as approved by the engineer/architect. The contractor shall repair any power or communication interruption immediately, at no additional cost to the owner.
8. Where interference with other utilities or construction are encountered during construction of new utility/drainage lines, the contractor may adjust the alignment or invert elevations of that system only at the direction of the project architect or engineer.
9. The contractor shall accept full responsibility for the proper protection of existing structures which are designated to remain during construction and the life of the contract. Any structures found to be damaged during the project duration shall be repaired or replaced at the architect's discretion to the complete satisfaction of the architect and at the contractor's full expense.
10. The contractor shall exercise extreme caution when working adjacent to active power and communication lines to prevent damage to these lines. the contractor shall hand excavate test pits to expose those lines prior to performing any other excavation work in the area. the contractor shall repair at his/her expense, any power or communication interruption immediately.

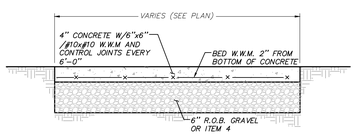


DRAINAGE LINE TRENCH DETAIL
(N.T.S.)

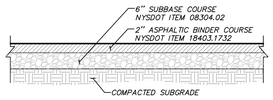


NOTE: STRUCTURE AND GRATE TO BE DESIGNED FOR H-20 LOADING.

30" X 30" DRAIN INLET DETAIL
(N.T.S.)



CONCRETE SIDEWALK DETAIL
(N.T.S.)

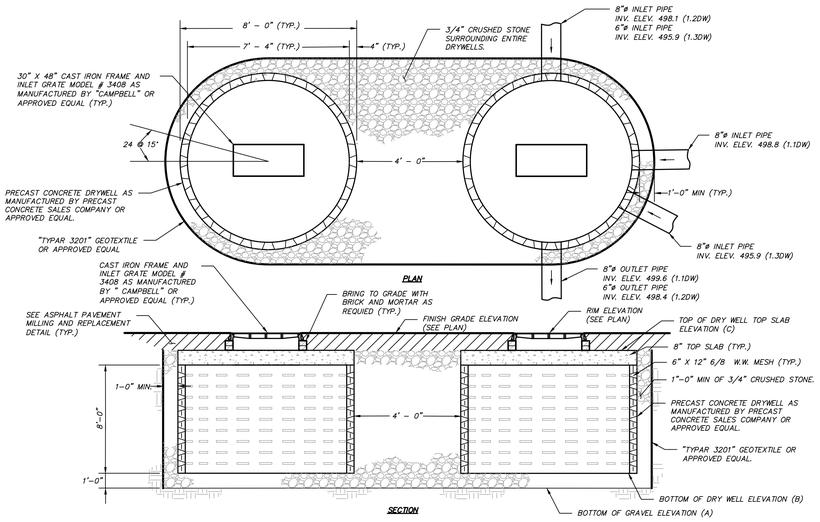


ASPHALT SIDEWALK DETAIL
(N.T.S.)

NOTE: ALL PROPOSED IMPROVEMENTS SHOWN ON THE DRAINAGE IMPROVEMENTS PLAN TO BE PERFORMED BY THE SITE CONTRACTOR.

GRAPHIC SCALE
0 10 20 40
(IN FEET)
1 inch = 20 ft.

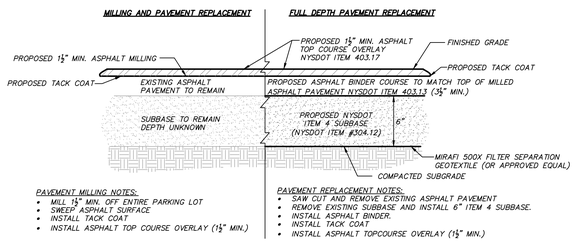
DRAINAGE IMPROVEMENTS PLAN
SCALE: 1" = 20'



SECTION

STORMWATER MANAGMENT PRACTICE	BOTTOM OF GRAVEL ELEVATION (A)	BOTTOM OF DRY WELL ELEVATION (B)	TOP OF DRY WELL TOP SLAB ELEVATION (C)	TOP OF GRAVEL ELEVATION (D)
1.1DW	491.6	492.6	501.3	501.3
1.2DW	490.1	491.1	499.8	499.8
1.3DW	487.6	488.6	497.3	497.3

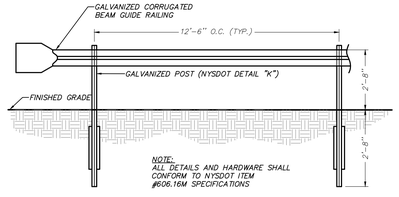
DRAIN INLET/DRYWELL DETAIL
(N.T.S.)
(STRUCTURES AND GRATES TO BE DESIGNED FOR H -20 LOADING)



PAVEMENT MILLING NOTES:
- MILL 1½" MIN. OFF ENTIRE PARKING LOT
- SWEEP ASPHALT SURFACE
- INSTALL TACK COAT
- INSTALL ASPHALT TOP COURSE OVERLAY (1½" MIN.)

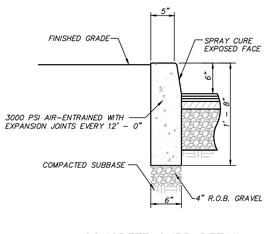
PAVEMENT REPLACEMENT NOTES:
- SAW CUT AND REMOVE EXISTING ASPHALT PAVEMENT
- REMOVE EXISTING SUBBASE AND INSTALL 6" ITEM 4 SUBBASE.
- INSTALL ASPHALT BINDER.
- INSTALL TACK COAT
- INSTALL ASPHALT TOPCOURSE OVERLAY (1½" MIN.)

ASPHALT PAVEMENT MILLING AND REPLACEMENT DETAIL
(N.T.S.)



NOTE: ALL DETAILS AND HARDWARE SHALL CONFORM TO NYSDOT ITEM #606.16M SPECIFICATIONS

GUIDE RAIL DETAIL
(N.T.S.)



CONCRETE CURB DETAIL
(N.T.S.)

ALTERATION OF THIS DOCUMENT, UNLESS UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, IS A VIOLATION OF SECTION 7209 OF ARTICLE 145 OF THE EDUCATION LAW.

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66.23.00.01.0.016.009

YONKERS PROJECT NUMBER

10845

PROJECT NAME

YONKERS PUBLIC SCHOOLS

PS 16 - YONKERS

759 NORTH BROADWAY

YONKERS, NY 10701

YONKERS PUBLIC SCHOOLS

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

STATE OF NEW YORK JOHN M. WATSON No. 77993 LICENSED PROFESSIONAL ENGINEER

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REV. NO.	DATE	DESCRIPTION
1	9/15/19	ISSUED FOR BID
2	11/16/20	ISSUED FOR BID

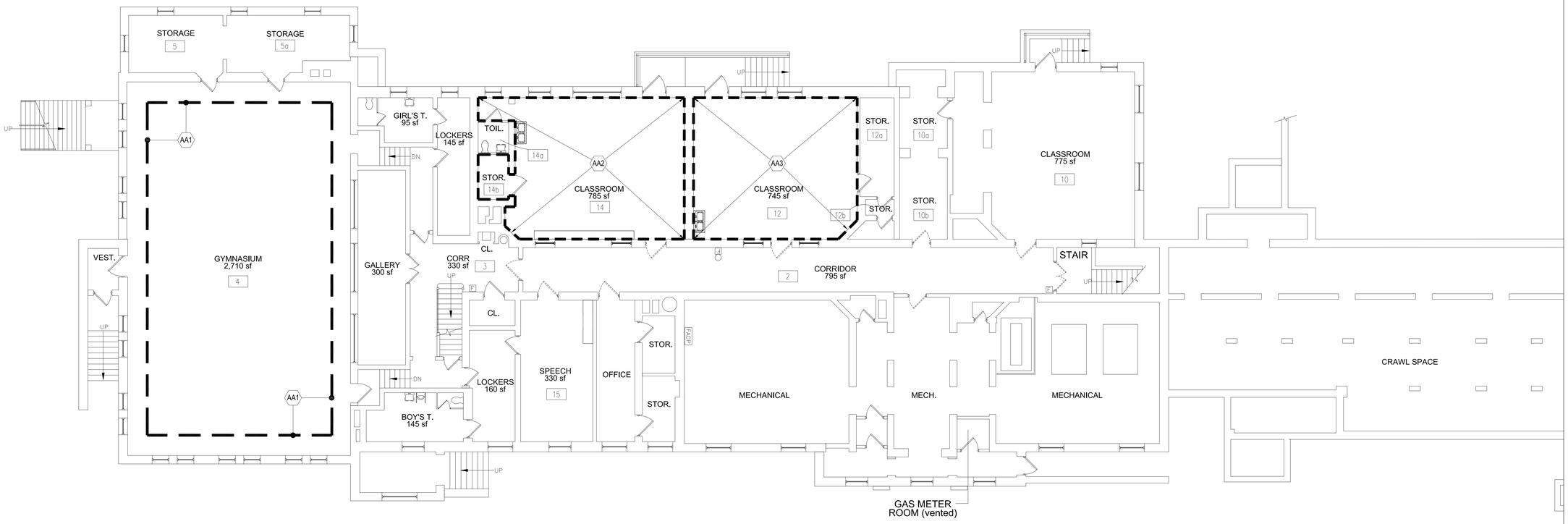
SCALE: AS SHOWN	DATE: 9/15/19
DRAWN BY: E.J.P.	CHECKED BY: J.M.W.

DRAWING TITLE

DRAINAGE IMPROVEMENTS PLAN AND DETAILS

SHEET NO.

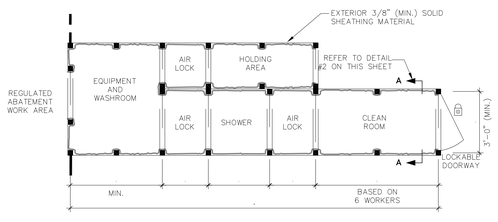
C-100



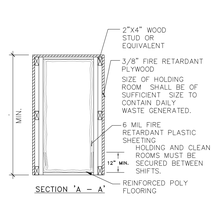
1 PART. BASEMENT PLAN - ABATEMENT

SCALE: 1/8"=1'-0"

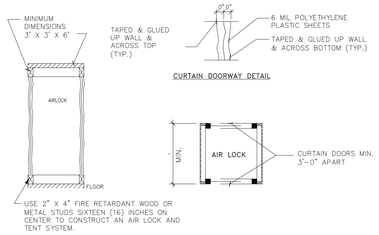
1 PARALLEL PERSONAL AND WASTE DECONTAMINATION SYSTEM ENCLOSURES LARGE ASBESTOS PROJECT



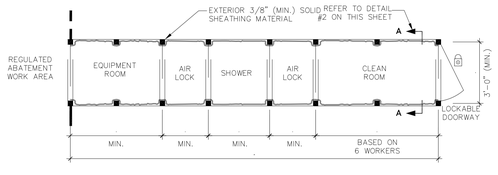
2 PERSONAL DECONTAMINATION ENCLOSURE LARGE SCALE



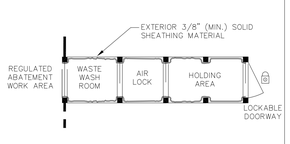
3 CROSS SECTION OF AIRLOCK PLAN OF AIRLOCK TYPICAL AIR LOCK DETAIL



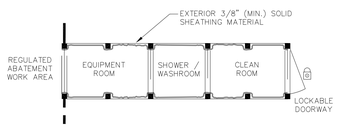
4 PERSONAL DECONTAMINATION SYSTEM ENCLOSURES LARGE ASBESTOS PROJECT



5 WASTE DECONTAMINATION SYSTEM ENCLOSURE - LARGE ASBESTOS PROJECT (OPTIONAL FOR SMALL ASBESTOS PROJECT)



6 PERSONAL AND WASTE DECONTAMINATION SYSTEM ENCLOSURE FOR A SMALL ASBESTOS PROJECT



ASBESTOS ABATEMENT KEYNOTES

		QTY.
AA1	REMOVE AND DISPOSE OF ASBESTOS CONTAINING FLOOR TILE ACCENT STRIP. ALL ASBESTOS CONTAINING MATERIAL SHALL BE REMOVED IN ITS ENTIRETY FROM THE SUBSTRATE.	40 SQ. FT.
AA2	REMOVE AND DISPOSE OF ASBESTOS CONTAINING FLOOR TILE, LEVELING COMPOUND AND MASTICS. ALL ASBESTOS CONTAINING MATERIAL SHALL BE REMOVED IN ITS ENTIRETY FROM THE SUBSTRATE.	745 SQ. FT.
AA3	REMOVE AND DISPOSE OF ASBESTOS CONTAINING TAR VAPOR BARRIER UNDER WOOD FLOORING. TOP 3 LAYERS OF FLOORING MAY BE REMOVED AND DISPOSED OF AS GENERAL CONSTRUCTION DEBRIS. ALL ASBESTOS CONTAINING MATERIAL SHALL BE REMOVED IN ITS ENTIRETY FROM THE SUBSTRATE.	785 SQ. FT.
AA4	REMOVE AND DISPOSE OF LIGHTS AND ELECTRICAL WIRING AS ASBESTOS CONTAINING MATERIAL.	12 LIGHTS / 24 LF OF WIRING

GENERAL ABATEMENT NOTES:

1. SPECIFICATION SECTION 02 8200 AND THE ABATEMENT LEGEND LIST APPROXIMATE QUANTITIES FOR REMOVAL, BUT THE CONTRACTOR IS ALONE RESPONSIBLE FOR DETERMINING THE ACTUAL ABATEMENT QUANTITIES OF ACM INCLUDING, SIZES, LENGTHS, SQUARE FOOTAGES AND CONFIGURATIONS.
2. THIS FACILITY WILL BE OCCUPIED DURING CONSTRUCTION WORK.
3. SHUT DOWN AND ISOLATE EXISTING MECHANICAL EQUIPMENT SYSTEMS TO PREVENT CONTAMINATION AND DISPERSAL TO OTHER AREAS IN THE BUILDING. COORDINATE WITH THE OWNER'S REPRESENTATIVE.
4. ANY CRITICAL ELECTRICAL RUNS THROUGH THE WORK AREA SHALL REMAIN ACTIVE DURING THE ENTIRE ABATEMENT PROCESS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REQUIRED VARIANCES REQUIRED TO MAINTAIN CRITICAL ELECTRICAL RUNS.
5. ALL SCHEDULED ABATEMENT WORK SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE. FOLLOW ALL RULES AND REGULATIONS OF NY'S ICR 56, EPA, OSHA AND OTHER APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS DURING THE ENTIRE PROJECT.
6. CONTRACTOR SHALL ATTEND THE PRE-WORK CONFERENCE AND PROVIDE A DETAILED ABATEMENT WORK PLAN FOR REVIEW.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR ON-SITE SAFETY AND SECURITY OF HISHER EMPLOYEES DURING ALL HAZARDOUS REMOVAL ACTIVITIES. CONTRACTOR ALSO ASSUMES RESPONSIBILITY FOR PROCEEDING WITH THE WORK IN A MANNER THAT OFFERS THEIR EMPLOYEES A WORKPLACE FREE FROM RECOGNIZED HAZARDS CAUSING SERIOUS HEALTH, HARM OR INJURY.
8. PROVIDE TO THE OWNER'S REPRESENTATIVE ALL WASTE TRANSPORTER PERMITS, WASTE DISPOSAL RECEIPTS AND THE CONTRACTORS POST ABATEMENT REPORT. SEE THE CLOSEOUT SUBMITTAL SECTION IN EACH OF THE ABATEMENT SPEC SECTIONS FOR DETAILS.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT LANDFILL DOES ACCEPT ALL OF THE TYPES OF HAZARDOUS MATERIALS WITHIN PROJECTS SCOPE OF WORK.
10. ANY REMOVAL WORK OR ANY OTHER WORK IN THESE AREAS SHALL COMMENCE ONLY AFTER THE HAZARDOUS MATERIAL REMOVAL WORK IS COMPLETED AND ONLY AFTER THE NECESSARY CLEARANCES ARE OBTAINED.
11. UPON COMPLETION OF HAZARDOUS MATERIAL REMOVALS WORK, ANY EXISTING AREAS AND/OR FINISHES THAT HAVE BEEN DAMAGED THAT ARE NOT PART OF THE REMOVAL SCOPES OF WORK (INCLUDES AREAS AND/OR FINISHES AS A RESULT OF ANY TEMPORARY PARTITIONS AND WASTE DECON UNIT ENCLOSURES CONSTRUCTION) SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE. FINISH RESTORATION SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE.
12. THE RESULTS OF THE TESTING FOR ACM & LEAD ARE LISTED IN THE BUILDING ASBESTOS SURVEY REPORT BOUND AT THE END OF SPEC. SECTION 02 8200.

YONKERS PUBLIC SCHOOLS

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

REGISTERED ARCHITECT PAUL RICHARD CHRIST 027811 STATE OF NEW YORK

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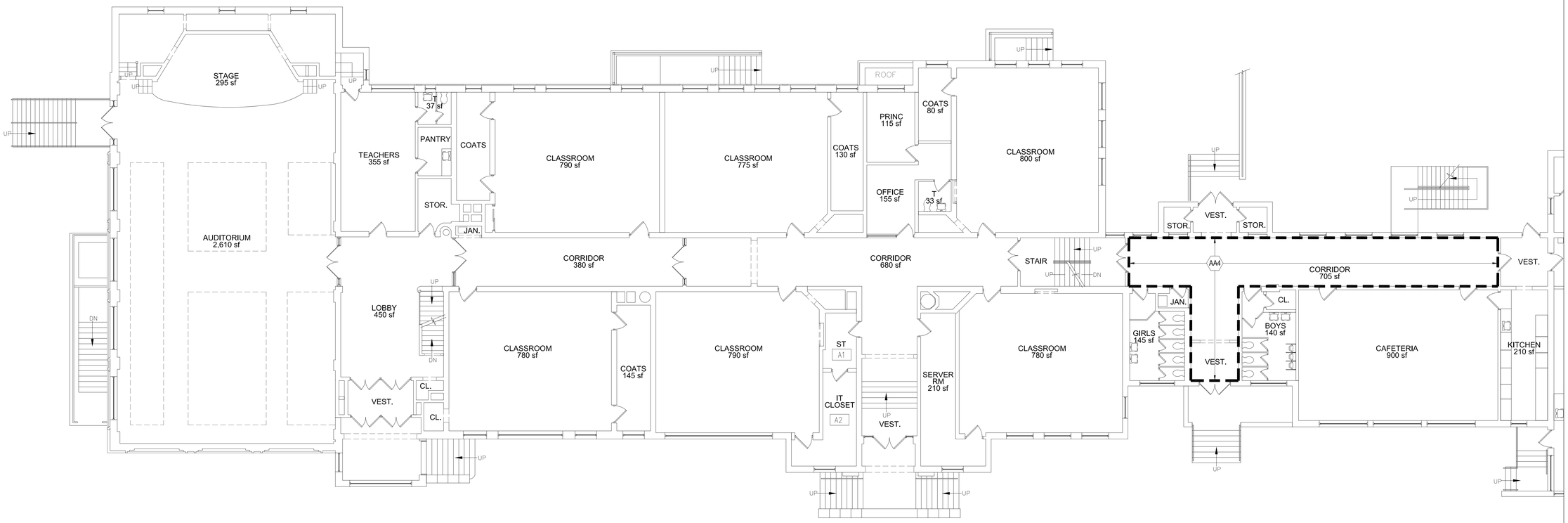
REV. NO.	DATE	DESCRIPTION
	01/23/19	SED FOR BUILDING PERMIT
	09/15/19	ISSUED FOR BID
	11/16/20	ISSUED FOR BID

SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

DRAWING TITLE
PART. BASEMENT ABATEMENT PLAN

SHEET NO.
AA100



1 PART. FIRST FLOOR PLAN - ABATEMENT

SCALE: 1/8"=1'-0"

PERSONAL AND WASTE DECONTAMINATION SYSTEM ENCLOSURES

PERSONAL DECONTAMINATION SYSTEM ENCLOSURES SHALL BE CONSTRUCTED AND FUNCTIONAL PRIOR TO COMMENCING THE REMAINDER OF THE PHASE II A REGULATED ABATEMENT WORK AREA PREPARATION ACTIVITIES. WASTE DECONTAMINATION SYSTEM ENCLOSURES SHALL BE CONSTRUCTED AND FUNCTIONAL AT THE COMPLETION OF PHASE II A PREPARATION ACTIVITIES. AFTER INSTALLATION OF THE PERSONAL DECONTAMINATION SYSTEM ENCLOSURE, ALL ACCESS TO THE REGULATED ABATEMENT WORK AREA SHALL BE VIA THE INSTALLED PERSONAL DECONTAMINATION SYSTEM ENCLOSURE.

PERSONAL DECONTAMINATION SYSTEM ENCLOSURE—LARGE PROJECT.

(1) ENCLOSURE—GENERAL. A PERSONAL DECONTAMINATION SYSTEM ENCLOSURE SHALL BE PROVIDED OUTSIDE THE REGULATED ABATEMENT WORK AREA AND ATTACHED TO ALL LOCATIONS WHERE PERSONNEL SHALL ENTER OR EXIT THE REGULATED ABATEMENT WORK AREA. ONE PERSONAL DECONTAMINATION ENCLOSURE SYSTEM FOR EACH REGULATED ABATEMENT WORK AREA SHALL BE REQUIRED. THIS SYSTEM MAY UTILIZE ADEQUATE EXISTING LIGHTING SOURCES SEPARATE FROM THE DECONTAMINATION SYSTEM ENCLOSURE, OR SHALL BE SUPPLIED WITH A GFCI PROTECTED TEMPORARY LIGHTING SYSTEM. THE PERSONAL DECONTAMINATION SYSTEM ENCLOSURE SHALL BE SIZED TO ACCOMMODATE THE NUMBER OF WORKERS AND EQUIPMENT REQUIRED FOR THE INTENDED PURPOSE. SUCH SYSTEM MAY CONSIST OF EXISTING ATTACHED ROOMS OUTSIDE OF THE REGULATED ABATEMENT WORK AREA, IF THE LAYOUT IS APPROPRIATE, THAT CAN BE PLASTICIZED AND ARE ACCESSIBLE FROM THE REGULATED ABATEMENT WORK AREA. WHEN THIS SITUATION DOES NOT EXIST, PERSONAL DECONTAMINATION ENCLOSURE SYSTEMS MAY BE CONSTRUCTED OF METAL, WOOD OR PLASTIC SUPPORTS COVERED WITH FIRE- RETARDANT PLASTIC SHEETING. A MINIMUM OF ONE LAYER OF SIX MIL FIRE-RETARDANT PLASTIC SHEETING SHALL BE INSTALLED ON THE CEILING, AND WALLS OF THE ENCLOSURE SYSTEM. AT LEAST TWO LAYERS OF SIX MIL FIRE-RETARDANT REINFORCED PLASTIC SHEETING SHALL BE USED FOR FLOORING PROTECTION OF THIS AREA. THIS SYSTEM MUST BE KEPT CLEAN, SANITARY AND CLIMATE CONTROLLED AT ALL TIMES IN CONFORMANCE WITH ALL FEDERAL, STATE AND LOCAL GOVERNMENT REQUIREMENTS. THIS SYSTEM SHALL REMAIN ON-SITE, OPERATIONAL AND BE USED UNTIL COMPLETION OF PHASE II C OF THE ASBESTOS PROJECT.

(2) ROOMS AND CONFIGURATION. THE PERSONAL DECONTAMINATION SYSTEM ENCLOSURE SHALL CONSIST OF A CLEAN ROOM, A SHOWER ROOM AND AN EQUIPMENT ROOM CONNECTED IN SERIES BUT SEPARATED FROM EACH OTHER BY AIRLOCKS. THERE SHALL BE A CURTAINED DOORWAY SEPARATION BETWEEN THE EQUIPMENT ROOM AND THE REGULATED ABATEMENT WORK AREA, AND THERE SHALL BE A LOCKABLE DOOR TO THE OUTSIDE. MINIMUM DIMENSIONS FOR EACH AIRLOCK, SHOWER ROOM AND EQUIPMENT ROOM SHALL BE THREE FEET WIDE BY SIX FEET IN HEIGHT, TO ALLOW FOR ADEQUATE ACCESS TO AND FROM THE REGULATED ABATEMENT WORK AREA.

(3) CURTAINED DOORWAY. AN ASSEMBLY WHICH CONSISTS OF AT LEAST THREE OVERLAPPING SHEETS OF SIX MIL FIRE-RETARDANT PLASTIC OVER AN EXISTING OR TEMPORARILY FRAMED DOORWAY, ONE SHEET SHALL BE SECURED AT THE TOP AND LEFT SIDE, THE SECOND SHEET AT THE TOP AND RIGHT SIDE, AND THE THIRD SHEET AT THE TOP AND LEFT SIDE. ALL SHEETS SHALL HAVE WEIGHTS ATTACHED TO THE BOTTOM TO INSURE THAT THE SHEETS HANG STRAIGHT AND MAINTAIN A SEAL OVER THE DOORWAY WHEN NOT IN USE.

(4) FRAMING. ENCLOSURE SYSTEMS ACCESSIBLE TO THE PUBLIC SHALL BE FULLY FRAMED, HARD-WALL SHEATHED AND UTILIZE A LOCKABLE DOOR FOR SAFETY AND SECURITY.

(5) SHEATHING. A PLYWOOD OR ORIENTED STRAND BOARD (OSB) SHEATHING MATERIAL OF AT LEAST ½ -INCH THICKNESS.

(6) PLASTIC SHEETING. ENCLOSURE SYSTEMS CONSTRUCTED AT THE WORK SITE SHALL USE AT LEAST ONE LAYER OF SIX MIL FIRE-RETARDANT PLASTIC SHEETING ON WALLS AND CEILING. AT LEAST TWO LAYERS OF SIX MIL FIRE-RETARDANT REINFORCED PLASTIC SHEETING SHALL BE USED FOR FLOOR PROTECTION OF THIS AREA.

(7) PREFABRICATED OR TRAILER UNITS. A COMPLETELY WATERTIGHT FIBERGLASS OR MARINE PAINTED PREFABRICATED UNIT DOES NOT REQUIRE PLASTICIZING. ROOMS SHALL BE CONFIGURED AS PER NYCRR PART 56-7.5. ALL PREFABRICATED OR TRAILER DECONTAMINATION UNITS SHALL BE KEPT IN GOOD CONDITION, AND SHALL BE COMPLETELY DECONTAMINATED AFTER FINAL CLEANING AND IMMEDIATELY PRIOR TO CLEARANCE AIR SAMPLING. UPON RECEIVING SATISFACTORY CLEARANCE AIR RESULTS, THE PREFABRICATED UNITS SHALL BE SEALED THEN SEPARATED FROM THE REGULATED ABATEMENT WORK AREA AND REMOVED FROM THE SITE.

(8) CLEAN ROOM. THE CLEAN ROOM SHALL BE SIZED TO ACCOMMODATE A FULL WORKSHIFT OF ASBESTOS ABATEMENT CONTRACTOR PERSONNEL, AS WELL AS THE AIR SAMPLING TECHNICIAN AND THE PROJECT MONITOR. THE CLEAN ROOM SHALL BE A MINIMUM OF SIX FEET IN HEIGHT. A MINIMUM OF 32 SQUARE FEET OF FLOOR SPACE SHALL BE PROVIDED FOR EVERY SIX FULL SHIFT ABATEMENT WORKERS, CALCULATED ON THE BASIS OF THE LARGEST WORK SHIFT. IF THE LARGEST WORK SHIFT CONSISTS OF THREE OR LESS FULL SHIFT ABATEMENT WORKERS, THE MINIMUM CLEAN ROOM SIZE REQUIREMENT IS REDUCED TO 24 SQUARE FEET OF FLOOR SPACE. BENCHES, LOCKERS AND HOOKS SHALL BE PROVIDED FOR STREET CLOTHES. SHELVES FOR STORING RESPIRATORS SHALL BE PROVIDED. CLEAN CLOTHING, REPLACEMENT FILTERS FOR RESPIRATORS, TOWELS AND OTHER NECESSARY ITEMS SHALL BE PROVIDED. THE CLEAN ROOM SHALL NOT BE USED FOR STORAGE OF TOOLS, EQUIPMENT OR MATERIALS. IT SHALL NOT BE USED FOR OFFICE SPACE. A LOCKABLE DOOR SHALL BE PROVIDED TO PERMIT ACCESS TO THE CLEAN ROOM FROM OUTSIDE THE REGULATED ABATEMENT WORK AREA OR ENCLOSURE AND SHALL BE USED TO SECURE THE REGULATED ABATEMENT WORK AREA AND DECONTAMINATION ENCLOSURE DURING NON-WORK HOURS.

(9) SHOWER ROOM. THE SHOWER ROOM SHALL CONTAIN ONE SHOWER PER EVERY SIX FULL SHIFT ABATEMENT WORKERS, CALCULATED ON THE BASIS OF THE LARGEST WORK SHIFT. MULTIPLE SHOWERS SHALL BE SIMULTANEOUSLY ACCESSIBLE (INSTALLED IN PARALLEL) TO CERTIFIED PERSONNEL. EACH SHOWERHEAD SHALL BE SUPPLIED WITH HOT AND COLD WATER ADJUSTABLE AT THE TAP. THE SHOWER ENCLOSURE SHALL BE CONSTRUCTED TO ENSURE AGAINST LEAKAGE OF ANY KIND. UNCONTAMINATED SOAP, SHAMPOO AND TOWELS SHALL BE AVAILABLE AT ALL TIMES. SHOWER WATER SHALL BE DRAINED, COLLECTED AND FILTERED THROUGH A SYSTEM WITH AT LEAST 5.0-MICRON PARTICLE SIZE COLLECTION CAPABILITY. SUBMERSIBLE PUMPS SHALL BE INSTALLED, MAINTAINED AND UTILIZED IN ACCORDANCE WITH PERTINENT OSHA REGULATIONS AND MANUFACTURER'S RECOMMENDATIONS. A MULTI-STAGE FILTERING SYSTEM CONTAINING A SERIES OF SEVERAL FILTERS WITH PROGRESSIVELY SMALLER PORE SIZES SHALL BE USED TO AVOID RAPID CLOGGING OF THE FILTERING SYSTEM BY LARGER PARTICLES. FILTERED WASTEWATER SHALL BE DISCHARGED IN ACCORDANCE WITH APPLICABLE CODES. CONTAMINATED FILTERS SHALL BE DISPOSED OF AS ASBESTOS-CONTAMINATED WASTE.

(10) EQUIPMENT ROOM. THE EQUIPMENT ROOM SHALL BE USED FOR THE STORAGE OF DECONTAMINATED EQUIPMENT AND TOOLS. A ONE-DAY SUPPLY OF REPLACEMENT FILTERS FOR HEPA-VACUUMS AND NEGATIVE PRESSURE VENTILATION EQUIPMENT IN SEALED CONTAINERS, EXTRA TOOLS, CONTAINERS OF SURFACTANT AND OTHER MATERIALS AND EQUIPMENT THAT MAY BE REQUIRED DURING THE ABATEMENT PROJECT MAY ALSO BE STORED HERE. A CONTAINER LINED WITH A LABELED, AT LEAST SIX MIL PLASTIC BAG FOR COLLECTION OF CLOTHING SHALL BE LOCATED IN THIS ROOM. CONTAMINATED FOOTWEAR AND WORK CLOTHES SHALL BE STORED IN THIS AREA.

(11) AIRLOCKS. AIRLOCK CONSTRUCTION SHALL CONSIST OF TWO CURTAINED DOORWAYS WITH THREE ALTERNATING SIX MIL FIRE-RETARDANT POLYETHYLENE CURTAINS PER DOORWAY, SEPARATED BY A DISTANCE OF AT LEAST THREE FEET, SUCH THAT ONE PASSES THROUGH ONE DOORWAY INTO THE AIRLOCK, ALLOWING THE DOORWAY SHEETING TO OVERLAP AND CLOSE OFF THE OPENING BEFORE PROCEEDING THROUGH THE NEXT DOORWAY. MINIMUM AIRLOCK SIZE SHALL BE THREE FEET WIDE, BY THREE FEET LONG, BY SIX FEET IN HEIGHT.

PERSONAL DECONTAMINATION SYSTEM ENCLOSURE—SMALL PROJECT.

(1) ENCLOSURE REQUIREMENTS. A PERSONAL DECONTAMINATION SYSTEM ENCLOSURE FOR A SMALL ASBESTOS PROJECT SHALL CONSIST OF, AT A MINIMUM, AN EQUIPMENT ROOM, A SHOWER ROOM AND A CLEAN ROOM SEPARATED FROM EACH OTHER AND FROM THE REGULATED ABATEMENT WORK AREA AND OTHER AREAS BY CURTAINED DOORWAYS AS DEFINED IN SECTION 56-2.1 OF NYCRR PART 56. ALL OTHER PROVISIONS FOR PERSONAL DECONTAMINATION SYSTEM FOR A LARGE ASBESTOS PROJECT SHALL APPLY. EQUIPMENT STORAGE, PERSONAL GROSS DECONTAMINATION AND REMOVAL OF CLOTHING SHALL OCCUR IN THE EQUIPMENT ROOM JUST PRIOR TO ENTERING THE SHOWER, THE FULL PERSONAL DECONTAMINATION SYSTEM ENCLOSURE SPECIFIED FOR LARGE ASBESTOS PROJECTS IS RECOMMENDED.

REMOTE PERSONAL DECONTAMINATION SYSTEM ENCLOSURE.

IF A PERSONAL DECONTAMINATION SYSTEM CANNOT BE ATTACHED TO THE REGULATED ABATEMENT WORK AREA, DUE TO AVAILABLE SPACE RESTRICTIONS OR OTHER BUILDING AND FIRE CODE RESTRICTIONS, A REMOTE PERSONAL DECONTAMINATION SYSTEM ENCLOSURE MAY BE USED FOR LIMITED SPECIAL PROJECTS AS PER SUBPART 56-11 OF NYCRR PART 56, NEGATIVE PRESSURE TENT ENCLOSURE WORK AREAS WITH GLOVEBAG ONLY ABATEMENT, OR IF NON-FRIABLE ACM IS BEING REMOVED IN A MANNER WHICH WILL NOT RENDER THE ACM FRIABLE. IF IT IS FOUND DURING PHASE II B, THAT THE NON-FRIABLE ACM OR ASBESTOS MATERIAL WILL BECOME FRIABLE DURING THE REMOVAL PROCESS, AND IT IS LOGISTICALLY POSSIBLE TO ATTACH THE DECONTAMINATION SYSTEM ENCLOSURE, ABATEMENT WORK MUST STOP IMMEDIATELY WHILE THE REMOTE PERSONAL DECONTAMINATION SYSTEM IS RELOCATED TO BE ATTACHED AND CONTIGUOUS TO THE REGULATED ABATEMENT WORK AREA. THE FOLLOWING REQUIREMENTS APPLY FOR ALL REMOTE PERSONAL DECONTAMINATION SYSTEMS:

(1) PROTECTIVE CLOTHING. WORKERS SHALL DON TWO SETS OF DISPOSABLE PROTECTIVE CLOTHING AND A SUPPLY OF PROTECTIVE CLOTHING SHALL BE KEPT IN THE AIRLOCKS ATTACHED TO THE REGULATED ABATEMENT WORK AREA.

(2) LOCATION. THE REMOTE PERSONAL DECONTAMINATION SYSTEM SHALL BE CONSTRUCTED AS CLOSE TO THE REGULATED ABATEMENT WORK AREA AS PHYSICALLY POSSIBLE. IF THE REMOTE PERSONAL DECONTAMINATION SYSTEM MUST BE LOCATED AT THE EXTERIOR OF THE BUILDING/STRUCTURE DUE TO SPACE OR CODE RESTRICTIONS, IT SHALL BE CONSTRUCTED WITHIN 50 FEET OF THE BUILDING/STRUCTURE EXIT USED FOR ACCESS BY THE ASBESTOS ABATEMENT CONTRACTOR PERSONNEL. THE DECONTAMINATION UNIT SHALL BE CORDONED OFF AT A DISTANCE OF 25 FEET TO SEPARATE IT FROM PUBLIC AREAS.

(3) AIRLOCKS. AT A MINIMUM, TWO EXTRA AIRLOCKS AS DEFINED IN SECTION 56-2.1 OF NYCRR PART 56 SHALL BE CONSTRUCTED AS PER PARAGRAPH (B)(11) OF SECTION 56-7.5. ONE SHALL BE CONSTRUCTED AT THE ENTRANCE TO THE EQUIPMENT ROOM OR EQUIPMENT/WASHROOM, THE OTHER EXTRA AIRLOCK SHALL BE CONSTRUCTED AT THE ENTRANCE TO THE CONTAINMENT OR REGULATED ABATEMENT WORK AREA(S). THESE AIRLOCKS SHALL HAVE LOCKABLE DOORWAYS AT THE ENTRANCE TO THE AIRLOCK FROM UNCONTAMINATED AREAS. THESE AIRLOCKS SHALL BE CORDONED OFF AT A DISTANCE OF 25 FEET AND APPROPRIATELY SIGNED IN ACCORDANCE WITH SECTION 56-7.4(C) OF NYCRR PART 56. AIRLOCKS SHALL NOT BE USED AS A WASTE DECONTAMINATION AREA AND SHALL BE KEPT CLEAN AND FREE OF ASBESTOS CONTAINING MATERIAL.

(4) DESIGNATED PATHWAY. THE WALKWAY FROM THE REGULATED ABATEMENT WORK AREA TO THE PERSONAL DECONTAMINATION SYSTEM OR NEXT REGULATED ABATEMENT WORK AREA SHALL BE CORDONED OFF AND SIGNAGE INSTALLED AS PER SECTION 56-7.4(C) OF NYCRR PART 56, TO DELINEATE IT FROM PUBLIC AREAS WHILE IN USE DURING PHASES II A THROUGH II D.

(5) TRAVEL THROUGH UNCONTAMINATED AREAS. IF AT ANY TIME A WORKER MUST TRAVEL THROUGH AN UNCONTAMINATED AREA TO ACCESS THE PERSONAL DECONTAMINATION AREA, THE WORKER SHALL HEPA-VACUUM AND/OR WET WIPE HIS/HER OUTER PROTECTIVE CLOTHING WHILE IN THE REGULATED ABATEMENT WORK AREA, THEN PROCEED INTO THE AIRLOCK, WHICH SERVES AS A CHANGING AREA, WHERE HE/SHE SHALL REMOVE THE OUTER CLOTHING AND DON A CLEAN SET OF PROTECTIVE CLOTHING. THE WORKER MAY THEN PROCEED TO THE PERSONAL DECONTAMINATION SYSTEM ENCLOSURE ONLY ALONG A DESIGNATED PATHWAY AS DESCRIBED ABOVE. TRAVEL IN ANY OTHER AREA SHALL NOT BE ALLOWED.

(6) REMOVAL. THE REMOTE PERSONAL DECONTAMINATION UNIT SHALL BE REMOVED ONLY AFTER SATISFACTORY CLEARANCE AIR SAMPLING RESULTS HAVE BEEN ACHIEVED.

WASTE DECONTAMINATION SYSTEM ENCLOSURE—LARGE AND SMALL ASBESTOS PROJECTS.

(1) ENCLOSURE—GENERAL. A WASTE DECONTAMINATION SYSTEM ENCLOSURE SHALL BE PROVIDED OUTSIDE THE REGULATED ABATEMENT WORK AREA AND SHALL BE ATTACHED TO THE REGULATED ABATEMENT WORK AREA. ONE WASTE DECONTAMINATION ENCLOSURE FOR EACH REGULATED ABATEMENT WORK AREA SHALL BE REQUIRED, THIS SYSTEM MAY UTILIZE ADEQUATE EXISTING LIGHTING SOURCES SEPARATE FROM THE DECONTAMINATION SYSTEM ENCLOSURE, OR SHALL BE SUPPLIED WITH A GFCI PROTECTED TEMPORARY LIGHTING SYSTEM. THE WASTE DECONTAMINATION SYSTEM ENCLOSURE SHALL BE SIZED TO ACCOMMODATE THE NUMBER OF WORKERS AND EQUIPMENT FOR THE INTENDED PURPOSE. SUCH SYSTEM MAY CONSIST OF EXISTING ATTACHED ROOMS OUTSIDE OF THE REGULATED ABATEMENT WORK AREA, IF THE LAYOUT IS APPROPRIATE, THAT CAN BE PLASTICIZED AND ARE ACCESSIBLE FROM THE REGULATED ABATEMENT WORK AREA. WHEN THIS SITUATION DOES NOT EXIST, ENCLOSURE SYSTEMS MAY BE CONSTRUCTED OF METAL, WOOD OR PLASTIC SUPPORTS COVERED WITH FIRE-RETARDANT PLASTIC SHEETING. A MINIMUM OF ONE LAYER OF SIX MIL FIRE-RETARDANT PLASTIC SHEETING SHALL BE INSTALLED ON THE CEILING, AND WALLS OF THE ENCLOSURE SYSTEM. AT LEAST TWO LAYERS OF SIX MIL FIRE-RETARDANT REINFORCED PLASTIC SHEETING SHALL BE USED FOR FLOORING PROTECTION OF THIS AREA. THIS SYSTEM MUST BE KEPT CLEAN, SANITARY AND CLIMATE CONTROLLED AT ALL TIMES IN CONFORMANCE TO ALL FEDERAL, STATE AND LOCAL GOVERNMENT REQUIREMENTS. THIS SYSTEM SHALL REMAIN AND BE USED UNTIL COMPLETION OF PHASE II C OF THE ASBESTOS PROJECT.

(2) ROOMS AND CONFIGURATION. A WASTE DECONTAMINATION SYSTEM ENCLOSURE SHALL CONSIST OF A WASHROOM AND A HOLDING AREA CONNECTED IN SERIES BUT SEPARATED FROM EACH OTHER BY AN AIRLOCK. THERE SHALL BE A LOCKABLE DOOR TO THE OUTSIDE, AND THERE SHALL BE A CURTAINED DOORWAY BETWEEN THE WASHROOM AND THE REGULATED ABATEMENT WORK AREA.

(3) CURTAINED DOORWAY. AN ASSEMBLY WHICH CONSISTS OF AT LEAST THREE OVERLAPPING SHEETS OF SIX MIL FIRE-RETARDANT PLASTIC OVER AN EXISTING OR TEMPORARILY FRAMED DOORWAY, ONE SHEET SHALL BE SECURED AT THE TOP AND LEFT SIDE, THE SECOND SHEET AT THE TOP AND RIGHT SIDE, AND THE THIRD SHEET AT THE TOP AND LEFT SIDE. ALL SHEETS SHALL HAVE WEIGHTS ATTACHED TO THE BOTTOM TO INSURE THAT THE SHEETS HANG STRAIGHT AND MAINTAIN A SEAL OVER THE DOORWAY WHEN NOT IN USE.

(4) WASHROOM. A ROOM/CHAMBER BETWEEN THE REGULATED ABATEMENT WORK AREA AND THE HOLDING AREA IN THE WASTE DECONTAMINATION SYSTEM ENCLOSURE, WHERE EQUIPMENT AND WASTE CONTAINERS ARE WET CLEANED OR HEPA-VACUUMED. ADEQUATE DRAINAGE AND BAG/CONTAINER WASH WATER SHALL BE PROVIDED WITHIN THE ROOM/CHAMBER, AS WELL AS A SUFFICIENT QUANTITY OF CLEAN WASTE BAGS/CONTAINERS.

(5) EQUIPMENT/WASHROOM ALTERNATIVE. WHERE THERE IS ONLY ONE EXIT FROM THE REGULATED ABATEMENT WORK AREA, THE HOLDING AREA OF THE WASTE DECONTAMINATION SYSTEM ENCLOSURE MAY BRANCH OFF FROM THE EQUIPMENT ROOM OF THE PERSONAL DECONTAMINATION SYSTEM ENCLOSURE. THE EQUIPMENT ROOM WILL ALSO BE USED AS A WASTE WASHROOM.

(6) PLASTIC SHEETING. WASTE DECONTAMINATION SYSTEM ENCLOSURES CONSTRUCTED AT THE WORK SITE SHALL USE AT LEAST ONE LAYER OF SIX MIL FIRE-RETARDANT PLASTIC SHEETING ON WALLS AND CEILING. AT LEAST TWO LAYERS OF SIX MIL FIRE-RETARDANT REINFORCED PLASTIC SHEETING SHALL BE USED FOR FLOORING PROTECTION OF THESE AREAS.

(7) ENCLOSURE SECURITY. THE WASTE DECONTAMINATION SYSTEM ENCLOSURE AND REGULATED ABATEMENT WORK AREA AIRLOCK(S) (WHEN REMOTE DECONTAMINATION SYSTEMS ARE USED) SHALL BE CONSTRUCTED WITH LOCKABLE DOORS TO PREVENT UNAUTHORIZED ENTRY. ENCLOSURE SYSTEMS LOCATED WITHIN 25 FEET OF AN AREA OF PUBLIC ACCESS SHALL BE FULLY FRAMED AND HARD-WALL SHEATHED FOR SAFETY.

(8) DRAINS. THE WASTE WASHROOM SHALL BE EQUIPPED WITH A WASH BIN OF SUFFICIENT SIZE TO PERFORM WASTE CONTAINER WASHING OPERATIONS AND SHALL HAVE A SUBMERSIBLE PUMP INSTALLED TO COLLECT WASTE WATER AND DELIVER IT TO THE SHOWER WASTEWATER FILTRATION SYSTEM WHERE IT SHALL BE FILTERED IN ACCORDANCE WITH PARAGRAPH (B)(9) OF NYCRR PART 56-7.5.

(9) SHOWER/WASHROOM ALTERNATIVE — SMALL ASBESTOS PROJECT. FOR SMALL ASBESTOS PROJECTS WITH ONLY ONE EXIT FROM THE REGULATED ABATEMENT WORK AREA, THE SHOWER ROOM MAY BE USED AS A WASTE WASHROOM. THE CLEAN ROOM SHALL NOT BE USED FOR WASTE STORAGE, BUT SHALL BE USED FOR WASTE TRANSFER TO CARTS, WHICH SHALL BE IMMEDIATELY REMOVED FROM THE ENCLOSURE. WASTE SHALL BE TRANSFERRED ONLY DURING TIMES WHEN THE SHOWERS ARE NOT IN USE.

WASTE DECONTAMINATION SYSTEM ENCLOSURE — WHEN REMOTE PERSONAL IS ALLOWED.

WHEN A REMOTE PERSONAL DECONTAMINATION SYSTEM ENCLOSURE IS ALLOWED AND UTILIZED FOR A REGULATED ABATEMENT WORK AREA, THE FOLLOWING REQUIREMENTS SHALL APPLY:

(1) MINOR SIZE REGULATED ABATEMENT WORK AREA. NO SPECIFIC WASTE DECONTAMINATION SYSTEM ENCLOSURE IS REQUIRED FOR MINOR SIZE REGULATED ABATEMENT WORK AREAS. THE WASTE GENERATED SHALL BE IMMEDIATELY BAGGED/CONTAINERIZED WITHIN THE REGULATED ABATEMENT WORK AREA.

(2) SMALL AND LARGE SIZE REGULATED ABATEMENT WORK AREAS.

(I) WASHROOM. AN ADDITIONAL CHAMBER SHALL BE CONSTRUCTED WITHIN THE REGULATED ABATEMENT WORK AREA, ATTACHED TO THE EXISTING AIRLOCK USED TO ACCESS THE WORK AREA. THE WASHROOM/AIRLOCK COMBINATION SHALL BE UTILIZED AS THE CONTIGUOUS WASTE DECONTAMINATION ENCLOSURE FOR WASTE BAGGING/CONTAINERIZATION AND WASTE TRANSFER ACTIVITIES. THE WASHROOM SHALL BE CONSTRUCTED AND SUPPLIED WITH EQUIPMENT/MATERIALS CONSISTENT WITH WASTE DECONTAMINATION SYSTEM ENCLOSURE WASHROOM REQUIREMENTS FOR CONTIGUOUS PERSONAL AND WASTE DECONTAMINATION SYSTEM ENCLOSURES.

(II) REMOVAL. THE WASHROOM CHAMBER SHALL BE REMOVED ONLY AFTER SATISFACTORY CLEARANCE AIR SAMPLING RESULTS HAVE BEEN ACHIEVED.

TENT PROCEDURES

TENT PROCEDURES SHALL BE CONDUCTED AS FOLLOWS:

(A) TENT PROCEDURES SHALL BE LIMITED TO THE REMOVAL OF LESS THAN 260 LINEAR FEET AND 160 SQUARE FEET OF ACM AND SHALL NOT RESULT IN DISTURBANCE OF ACM DURING TENT ERECTION.

(B) TENT PROCEDURES SHALL BE ACCOMPLISHED IN A CONSTRUCTED OR COMMERCIALLY AVAILABLE FIRE RETARDANT PLASTIC TENT. PLASTICIZING AND SEALING ALL SURFACES NOT BEING ABATED WITHIN THE TENT PERIPHERY FORMING AN ENCLOSURE. THE TENT SHALL BE OF FIRE RETARDANT 6-MIL PLASTIC AT A MINIMUM, WITH SEAMS HEAT-SEALED, OR DOUBLE-FOLDED, STAPLED AND TAPED AIRTIGHT AND THEN TAPED FLUSH WITH THE ADJACENT TENT WALL, THIS IS A SINGLE USE BARRIER THAT SHALL NOT BE REUSED ONCE DISMANTLED OR COLLAPSED.

(C) THERE SHALL BE AN AIRLOCK AT THE ENTRANCE TO THE TENT, UNLESS THERE IS AN ATTACHED WORKER OR WASTE DECONTAMINATION SYSTEM.

(D) ASBESTOS HANDLERS INVOLVED IN THE TENT PROCEDURE SHALL WEAR PERSONAL PROTECTIVE EQUIPMENT PLUS A SECOND DISPOSABLE SUIT. ALL STREET CLOTHES SHALL BE REMOVED AND STORED IN A CLEAN ROOM WITHIN THE WORK SITE. THE PERSONAL PROTECTIVE EQUIPMENT WITH TWO DISPOSABLE SUITS SHALL BE USED FOR INSTALLATION OF THE TENT AND THROUGHOUT THE PROCEDURE IF A DECONTAMINATION UNIT WITH A SHOWER IS NOT CONTIGUOUS TO THE WORK AREA. IF A DECONTAMINATION UNIT (WITH SHOWER AND CLEAN ROOM AT A MINIMUM) IS CONTIGUOUS TO THE WORK AREA, ONLY ONE DISPOSABLE SUIT SHALL BE REQUIRED; IN THIS CASE, PRIOR TO EXITING THE TENT THE WORKER SHALL HEPA VACUUM AND WET CLEAN THE DISPOSABLE SUIT.

(E) THE TENT SHALL BE ATTACHED TO THE SURFACE TO PRODUCE AN AIRTIGHT SEAL EXCEPT FOR AN APPROPRIATE SECTION TO ALLOW FOR MAKE-UP AIR INTO THE TENT.

(F) NEGATIVE PRESSURE VENTILATION EQUIPMENT SHALL BE USED TO CONTINUOUSLY EXHAUST THE ENCLOSED AREA.

(G) REMOVAL OF ACM SHALL BE BY WET METHODS IN ACCORDANCE.

(H) ACM REMOVED SHALL BE PLACED IN A LEAK-TIGHT CONTAINER WITHOUT DROPPING IT.

(I) UPON COMPLETION OF ABATEMENT, AND PRIOR TO TENT COLLAPSE, THE ENCLOSED SURFACES SHALL:

(1) BE WET CLEANED USING RAGS, MOPS OR SPONGES AND

(2) BE PERMITTED SUFFICIENT TIME TO DRY, PRIOR TO HEPA VACUUMING ALL SUBSTRATES; AND

(3) BE LIGHTLY ENCAPSULATED TO LOCKDOWN RESIDUAL ASBESTOS.

(J) UPON BARRIER DISTURBANCE, LOSS OF ENGINEERING CONTROLS, OR TERMINATION OF TENT USAGE, THE TENT AND THE ENCLOSED SURFACES SHALL BE TREATED ACCORDING TO SUBDIVISION (I) ABOVE.

(K) THE BAGGED WASTE SHALL BE WET CLEANED OR HEPA VACUUMED AND THEN TRANSFERRED OUTSIDE THE TENT, DOUBLE BAGGED, AND APPROPRIATELY HANDLED PRIOR TO DISPOSAL.

(L) THE OUTER DISPOSABLE SUIT (IF 2 SUITS ARE WORN) SHALL BE HEPA VACUUMED IN THE TENT PRIOR TO EXITING. THE OUTER DISPOSABLE SUIT SHALL BE REMOVED IN THE AIRLOCK AND A CLEAN SUIT SHALL BE WORN OVER THE INNER SUIT. THE WORKERS SHALL IMMEDIATELY PROCEED TO A SHOWER AT THE WORK SITE. THE INNER DISPOSABLE SUIT AND RESPIRATOR SHALL BE REMOVED IN THE SHOWER AFTER APPROPRIATE WETTING. THE DISPOSABLE CLOTHING SHALL BE DISPOSED OF AS ASBESTOS-CONTAINING WASTE MATERIAL. THE WORKERS SHALL THEN FULLY AND VIGOROUSLY SHOWER WITH SUPPLIED LIQUID BATH SOAP, SHAMPOO, AND CLEAN DRY TOWELS.

(M) THE NEGATIVE PRESSURE VENTILATION EQUIPMENT SHALL BE USED TO FILTER A MINIMUM OF 4 VOLUME CHANGES THROUGH THE TENT AFTER COMPLETION OF ABATEMENT BUT PRIOR TO COLLAPSE OF THE TENT/BARRIER. ALL REQUIRED AIR MONITORING MUST BE SUCCESSFULLY COMPLETED BEFORE THE TENT/BARRIER IS COLLAPSED.

(N) THE TENT SHALL BE COLLAPSED INWARD, ENCLOSING THE CONTAMINATED CLOTHING. THIS CONTAMINATED MATERIAL SHALL BE DISPOSED OF IN ANOTHER PLASTIC BAG. THE HEPA VACUUM SHALL BE DECONTAMINATED AND SEALED.

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YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS
PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

REGISTERED ARCHITECT — ANN RICHARD-DINNEY — 027811 — STATE OF NEW YORK

KEY PLAN — PROJECT NORTH

YONKERS PUBLIC SCHOOLS

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REV. NO.	DATE	DESCRIPTION
	01/23/19	SED FOR BUILDING PERMIT
	09/15/19	ISSUED FOR BID
	11/16/20	ISSUED FOR BID

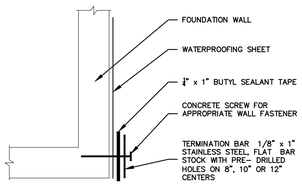
SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

DRAWING TITLE

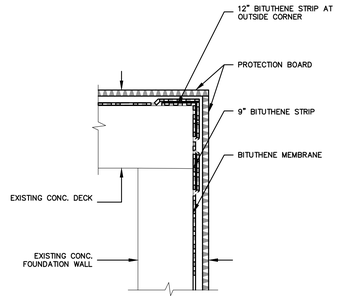
PART FIRST FLOOR ABATEMENT PLAN

SHEET NO.

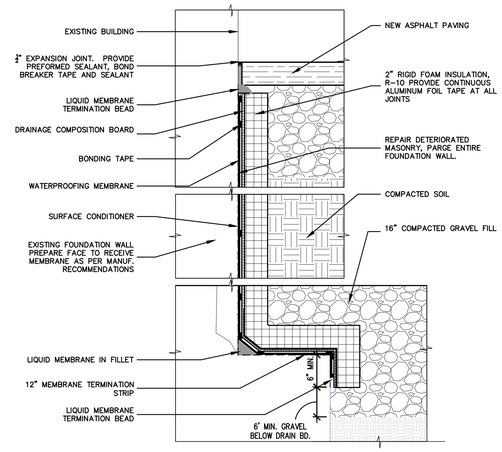
AA101



3 VERTICAL TERMINATION OF SHEET MEMBRANE DETAIL
SCALE: 1-1/2"=1'-0"



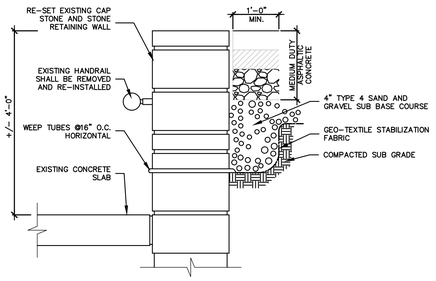
2 WALL TIE IN/OUTSIDE CORNER DETAIL
SCALE: 3"=1'-0"

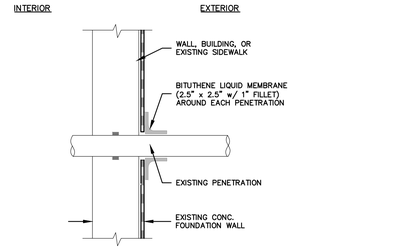


1 WATERPROOFING DETAIL
SCALE: 1-1/2"=1'-0"

SHEET MEMBRANE NOTES:

1. SHEET MEMBRANE IS SIMILAR OR EQUAL TO BITUTHENE 4000 BY GRACE PRODUCTS. PROTECTION BOARD, SIM OR EQUAL TO SEALTIGHT PROTECTION COURSE PC-2 BY W.R. MEADOWS. (APPROX. ----- SF)
2. FOLLOW ALL MANUFACTURER REQUIREMENTS FOR WATERPROOFING SYSTEM.
3. THE CONTRACTOR SHALL CONFORM TO SAFETY REQUIREMENTS DURING EXCAVATION COMPLYING WITH NYC DC 26-229 AND 27-1032.
4. HEAVY EQUIPMENT SHALL NOT BE PERMITTED CLOSER THAN 10'-0" TO ANY FOUNDATION.
5. CONTRACTOR SHALL COORDINATE EXCAVATION WITH ALL APPLICABLE UTILITY AGENCIES TO VERIFY ALL EXISTING LOCATIONS OF EQUIPMENT/ UTILITIES BELOW GRADE.
6. PROVIDE SHORING, BRACING, FALL PROTECTION AND DE-WATERING AS REQUIRED AT ENTIRE PERIMETER OF EXCAVATED AREA.
7. ALL SHORING PLANS SHALL BE PREPARED BY CONTRACTORS LICENSED ENGINEER, STAMPED AND APPROVED.



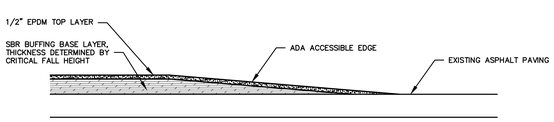


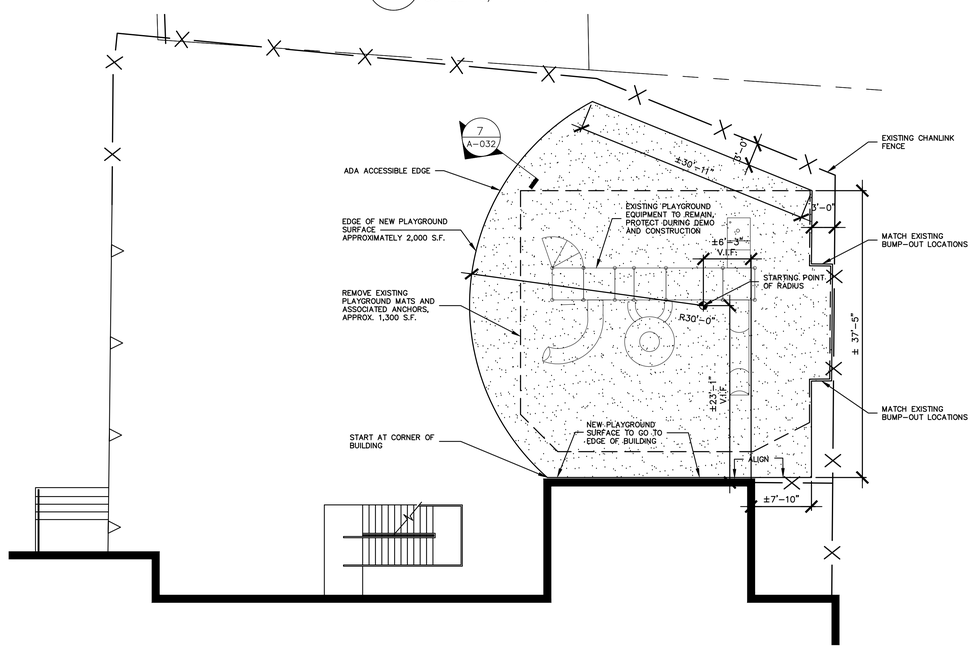
5 SECTION THROUGH RETAINING WALL
SCALE: 3/4"=1'-0"

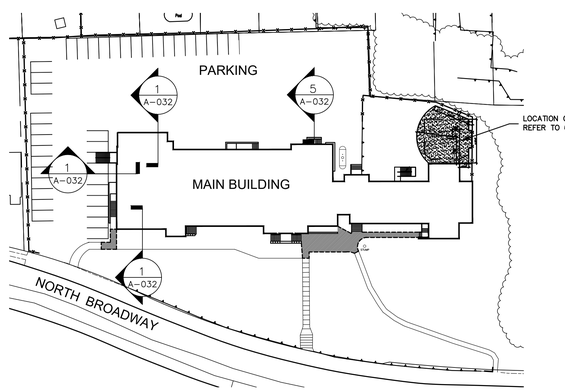
4 WALL PENETRATION WATERPROOFING DETAIL
SCALE: 1-1/2"=1'-0"

NOTE:

1. ALL WORK SHOWN ON THIS SHEET SHALL BE FURNISHED BY THE SITE CONTRACTOR. REFER TO CIVIL DRAWING C-100 FOR ADDITIONAL INFORMATION.







7 PLAYGROUND RESURFACING DETAIL
SCALE: 1-1/2"=1'-0"

6 PLAYGROUND RESURFACING PLAN
SCALE: 1/8"=1'-0"

SITE KEY PLAN
N.T.S.

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

REGISTERED ARCHITECT DAVID JOHN SAMUEL 033158 STATE OF NEW YORK

KEY PLAN
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SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

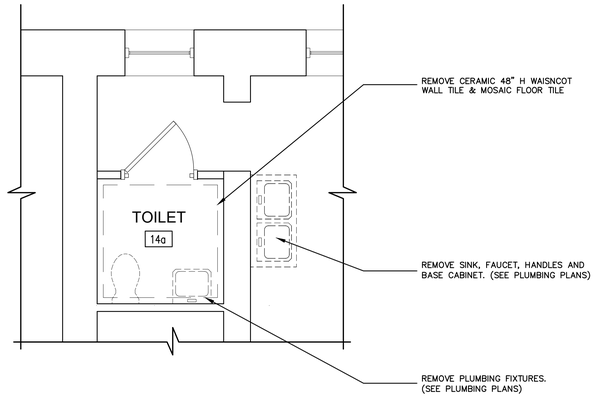
DRAWING TITLE
SITE DETAILS

SHEET NO.
A-032

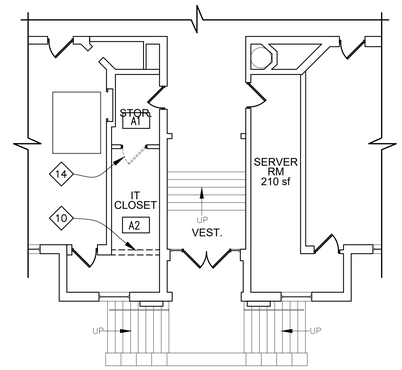
YONKERS PUBLIC SCHOOLS

REMOVAL SCOPE NOTES: (SEE OTHER TRADE DWGS FOR ADDITIONAL REMOVALS)

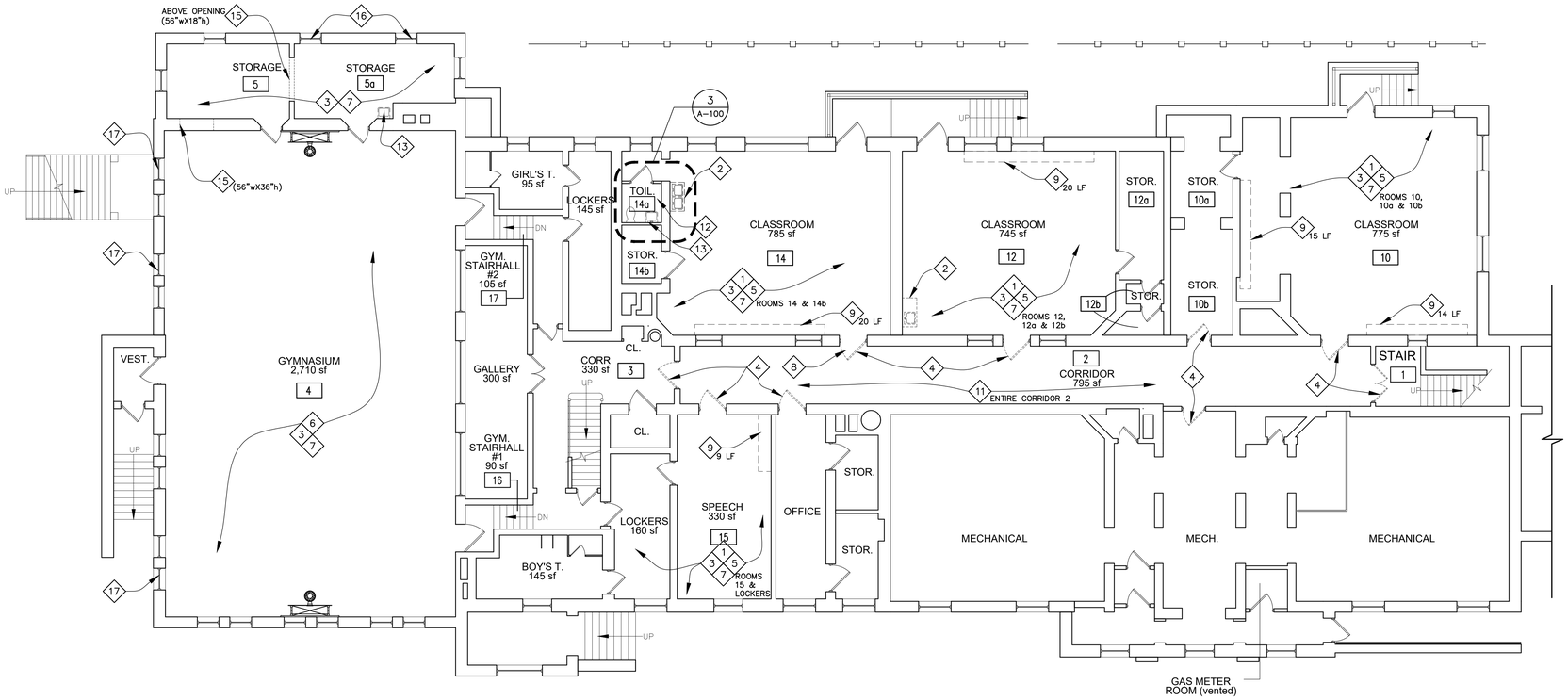
1. REMOVE, PROTECT, STORE AND REINSTALL EXISTING WINDOW SHADES.
2. REMOVE SINK, FAUCET, HANDLES AND BASE CABINET. EXISTING WATER SUPPLY, VENT AND DRAIN LINES TO REMAIN FOR RECONNECTION TO NEW SINK. (SEE PLUMBING PLANS).
3. REMOVE SURFACE MOUNTED AND CHAIN HUNG LIGHTING FIXTURES. ELECTRIC BOX TO REMAIN. (SEE ELECTRIC PLANS.) COORDINATE REMOVALS WITH HAZARDOUS MATERIALS WORK.
4. REMOVE EXISTING DOOR SLABS, LATCHES, HINGES, AND STRIKE PLATES. DOOR FRAME AND TRANSOM LIGHT TO REMAIN.
5. REMOVE EXISTING VAT FLOORING, MASTIC AND RUBBER BASE. COORDINATE REMOVALS WITH HAZARDOUS MATERIALS DRAWINGS AND SPECIFICATIONS.
6. REMOVE GYM FLOOR SYSTEM (2) LAYERS VAT FLOORING ON ½" MARINE PLYWOOD ON 2" MASTIC FILLER AND STEEL ANGLE BASE AT PERIMETER OF FLOOR (APPROX. 215 L.F.) COORDINATE WITH HAZARDOUS MATERIALS DRAWINGS AND SPECIFICATIONS. SEE DETAIL #5 ON SHEET A-802.
7. REMOVE FROM PLASTER WALLS AND CEILING ALL LOOSE MATERIALS IN PREPARATION FOR REPAINTING.
8. REMOVE WOOD IN-FILL AT DOOR HEAD WITHIN FRAME.
9. REMOVE BUILT-IN CASEWORK – COORDINATE WITH HAZARDOUS MATERIALS ABATEMENT SCOPE.
10. REMOVE GYPSUM BOARD AND LIGHT GAUGE-FRAMED WALL TO EXTENT SHOWN ON PLAN.
11. REMOVE APPROX. 75 LF OF WOOD WALL BASE.
12. REMOVE CERAMIC FLOOR AND WALL TILE.
13. REMOVE PLUMBING FIXTURES BY PLUMBING CONTRACTOR (SEE PLUMBING PLANS).
14. REMOVE EXISTING DOOR AND GYP. BD. FROM ONE SIDE OF WALL TO ALLOW FOR INSTALLATION OF SECURITY COMPONENTS.
15. NEW OPENING IN EXISTING CONCRETE WALL AS REQUIRED FOR DUCTWORK INSTALLATION. COORDINATE SIZE AND LOCATION W/ MECHANICAL DRAWINGS.
16. REMOVE, PROTECT AND STORE EXISTING WINDOW ASSEMBLY TO BE RELOCATED TO SOUTH WALL OF GYMNASIUM.
17. REMOVE EXISTING WINDOW ASSEMBLY & WINDOW GUARDS AND TURN OVER TO OWNER.



3 TOILET ROOM: REMOVALS
SCALE: 3/8"=1'-0"



2 PARTIAL FIRST FLOOR PLAN: REMOVALS
SCALE: 1/8"=1'-0"



1 PARTIAL BASEMENT FLOOR REMOVALS PLAN
SCALE: 1/8"=1'-0"

66.23.00.01.0.016.009

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YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

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1 A-100
2 A-100

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DRAWN BY: K.C.	CHECKED BY: C.G.

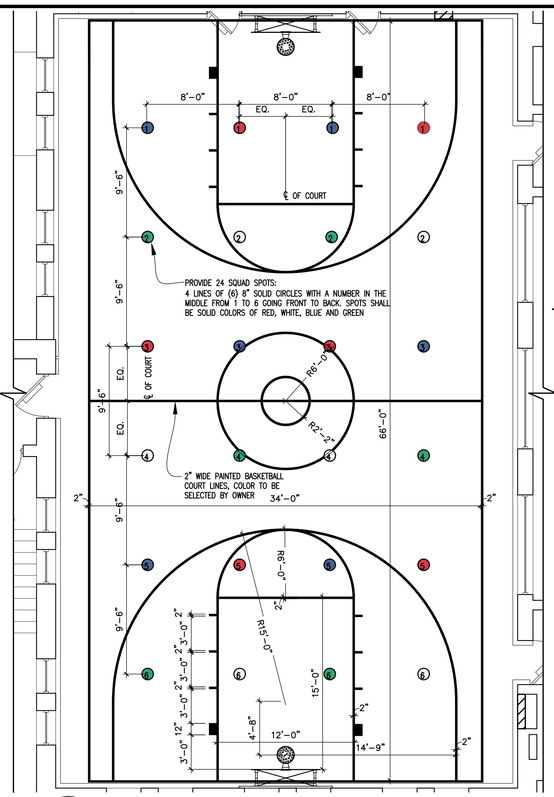
DRAWING TITLE
BASEMENT & FIRST FLOOR LEVEL REMOVAL PLANS & SCOPE NOTES

SHEET NO.
A-100

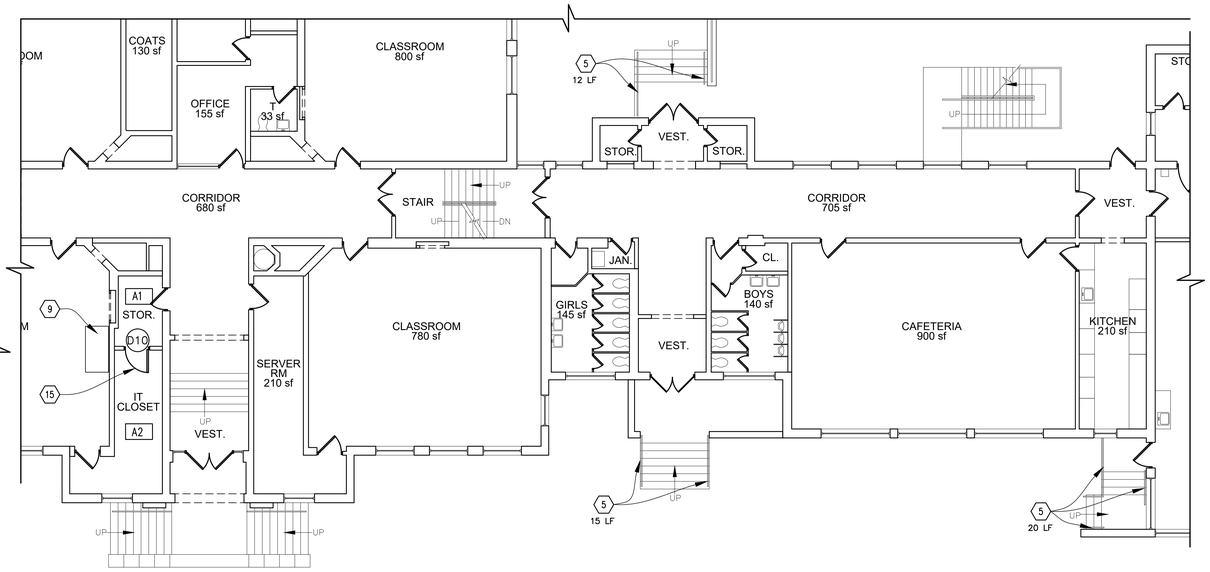
YONKERS PUBLIC SCHOOLS

CONSTRUCTION SCOPE NOTES:

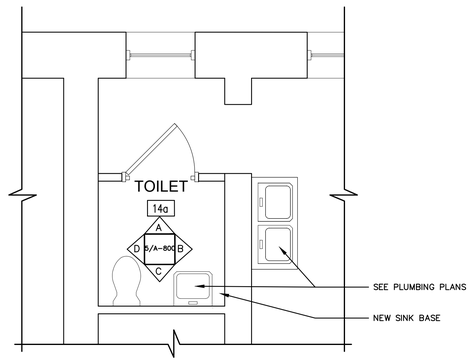
1. INFILL DEPRESSION IN FLOOR CAUSED BY REMOVALS OF FLOOR ASSEMBLY AND INSTALL SCHEDULED FLOORING. SEE DETAIL 5&6/A802.
2. PROVIDE NEW SINKS, FAUCET SETS AND BASE CABINETS AS DESCRIBED IN THE CONTRACT DOCUMENTS AND DETAILS 1 &2/A-800. EVALUATE EXISTING SUPPLY, VENT AND DRAIN LINES FOR RE-USE (SEE PLUMBING PLANS) BY PLUMBING CONTRACTOR.
3. REPLACE/PATCH EXISTING 4" CONCRETE SLAB, INFILL REMOVED PORTIONS FOR PLUMBING APPROX. 8 SF OF NEW SLAB REQUIRED
4. PATCH AND LEVEL EXISTING PLASTER BRICK WALLS AND CEILING SURFACES MATCHING EXISTING ADJACENT TEXTURES. PRIME AND PAINT ALL WALLS AND CEILINGS. EXISTING PIPING, CONDUIT, WIRE MOLDING SHALL BE PREPPED AND PAINTED. ELECTRIC CONTRACTOR TO PROVIDE NEW FACEPLATES FOR DATA DROPS, OUTLETS, WALL SWITCHES AND SIMILAR APPLIANCES (SEE ELECTRICAL DRAWINGS) BY ELECTRICAL CONTRACTOR.
5. SCRAPE RUST SCALE AND PAINT FROM STEEL TUBE HANDRAIL, PRIME AND PAINT.
6. PAINT EXISTING TRANSOM/WINDOW FRAME, MUNTINS, & MULLIONS.
7. NEW LVT AND 4" VINYL BASE.
8. PROVIDE NEW CASE WORK. SEE DETAIL 9 & 10/A802.
9. NEW 72"x36"x18" METAL BOOK STORAGE CABINET w/ LOCK SYSTEM SIMILAR TO HERTZ FURNITURE ALL PURPOSE STORAGE CABINET SCT-40. 22 GAUGE STEEL w/ 15 YEAR WARRANTY AND THREE-POINT LOCKING. COLOR SELECTED BY OWNER.
10. NEW Z-CLIP MOUNTED ATHLETIC WALL PADS. REFER TO ELEVATIONS #'S 1-4 ON SHEET A-802
11. NEW 6" VINYL BASE ON EXISTING MASONRY WALLS. ENTIRE PERIMETER OF CORRIDOR & STAIR, PROVIDE PRE-MOLDED INTERIOR AND EXTERIOR CORNER PIECES. PATCH PLASTER TO CONFORM TO CORNER PROFILE AND FIT TIGHT FOR BASE.
12. INSTALL RELOCATED WINDOW REMOVED FROM STORAGE ROOM 5a. REINSTALL WINDOW GUARDS TO PERFORM THIS WORK. CONNECT WINDOW OPERATORS TO NEW WINDOWS.
13. PROVIDE NEW CONCRETE PAD FOR NEW MECHANICAL UNIT, COORDINATE SIZE AND LOCATION WITH MECHANICAL CONTRACTOR. REFER TO DETAIL #11 ON SHEET A-802
14. INFILL OPENING OF REMOVED EXHAUST GRILLE WITH SIMILAR ADJACENT CONSTRUCTION, PRIME AND PAINT.
15. PROVIDE NEW DOOR IN EXISTING FRAME. EXTEND WALL TO UNDERSIDE OF FLOOR SLAB ABOVE. PROVIDE 1 LAYER OF 5/8" TYPE 'X' DRYWALL, PREP AND PAINT AS SCHEDULED.
16. PROVIDE NEW LOVERS IN EXISTING OPENINGS. SEE DETAIL 7/A802.
17. PROVIDE NEW WINDOW TO MATCH EXISTING SEE DETAIL 7/A802.
18. REINSTALL EXISTING STORED WINDOW SHADES TO ORIGINAL EXISTING LOCATIONS.
19. PREPARE CONCRETE SLABS WITH CEMENTITIOUS FLASH PATCH AND SELF LEVELING COMPOUND TO RECEIVE SCHEDULED FLOORING AND VINYL BASE.
20. RAISE FINISH FLOOR LEVEL, INFILL WITH CONCRETE AND AGGREGATE OR SELF LEVELING MATERIALS AND INSTALL SCHEDULED FLOORING AND VINYL BASE. EXISTING FLOOR IS APPROXIMATELY 4" LOWER THAN PROPOSED FLOOR ELEVATION.
21. PROVIDE NEW OPENING IN CONCRETE WALL TO ACCOMMODATE NEW DUCTWORK PENETRATION. COORDINATE SIZE AND LOCATION WITH MECHANICAL CONTRACTOR



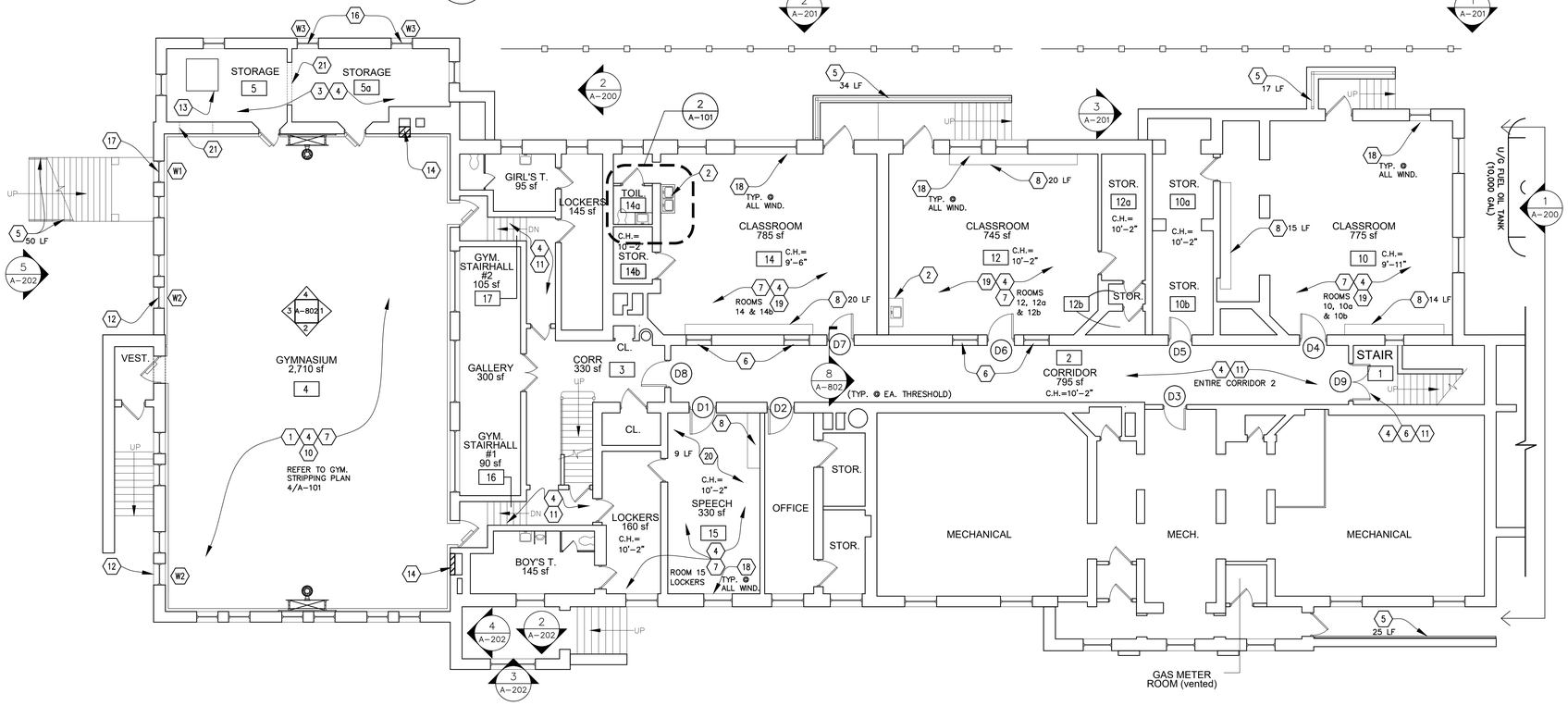
4 GYMNASIUM STRIPPING PLAN
SCALE: 3/16"=1'-0"



3 PARTIAL FIRST FLOOR CONSTRUCTION PLAN
SCALE: 1/8"=1'-0"



2 TOILET ROOM CONSTRUCTION PLAN
SCALE: 3/8"=1'-0"



1 PARTIAL BASEMENT FLOOR CONSTRUCTION PLAN
SCALE: 1/8"=1'-0"

GENERAL NOTES:

FOR EACH SPACE BASE BID SHALL INCLUDE 100% SCRAPE, PREP, PRIME AND PAINT (3) THREE COATS ALL SURFACES INCLUDING, BUT NOT LIMITED TO WALLS, CEILINGS, DOORS AND FRAMES; AND 30% PLASTER PATCHING OF ALL SURFACES.

66.23.00.01.0.016.009

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759 NORTH BROADWAY
YONKERS, NY 10701

YONKERS PUBLIC SCHOOLS

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

REGISTERED ARCHITECT DANIA HAJJAR SAMEH 029158 STATE OF NEW YORK

KEY PLAN
PROJECT NORTH
1 A-101
3 A-101

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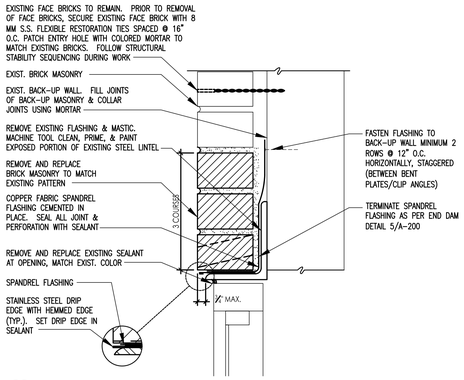
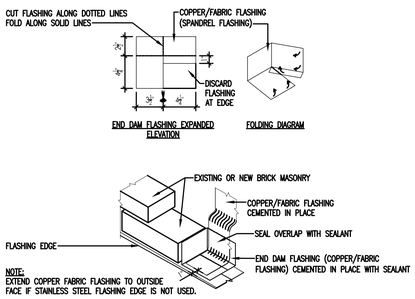
DRAWING TITLE
BASEMENT & 1ST. FLR LEVEL CONSTRUCTION PLAN & SCOPE NOTES

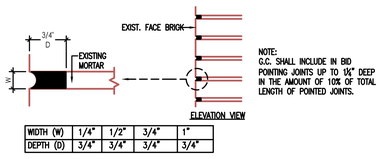
SHEET NO.
A-101



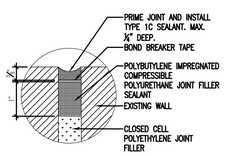
4 LINTEL REPAIR DETAIL
SCALE: 3"=1'-0"



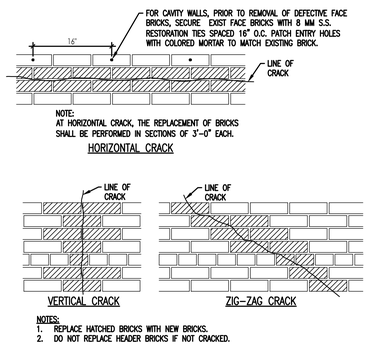
5 SOLID MASONRY END DAM FLASHING DETAIL
SCALE: 1-1/2"=1'-0"



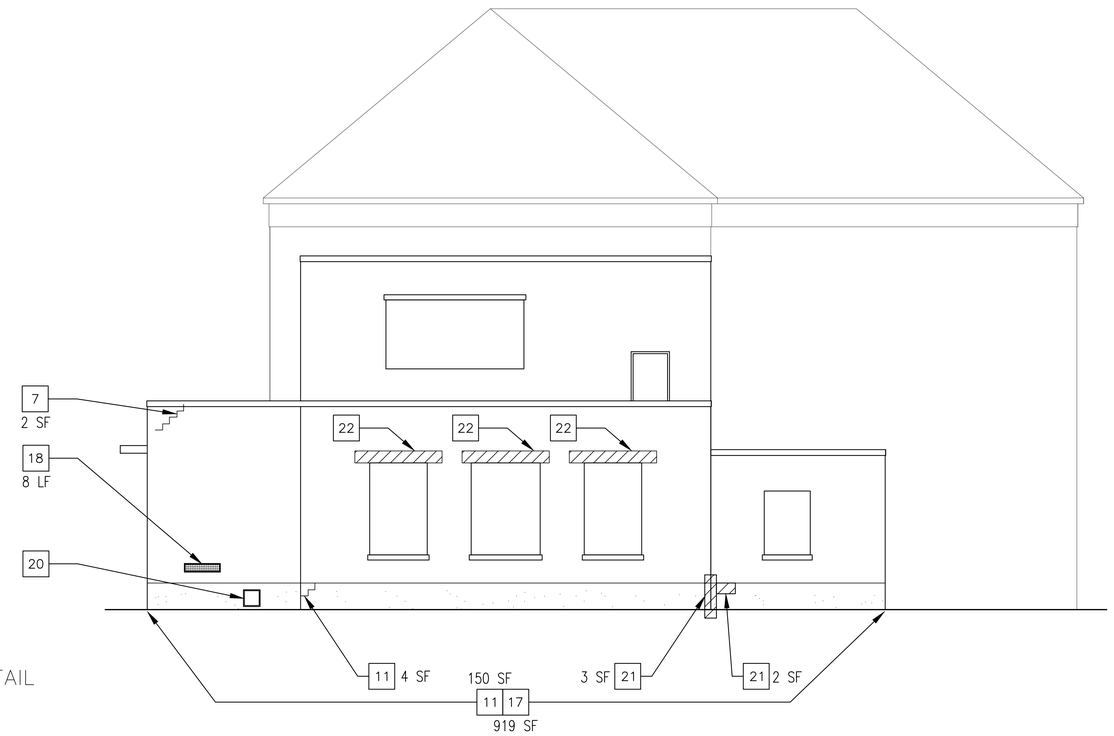
6 REPOINTING MORTAR JOINT DETAIL
NTS



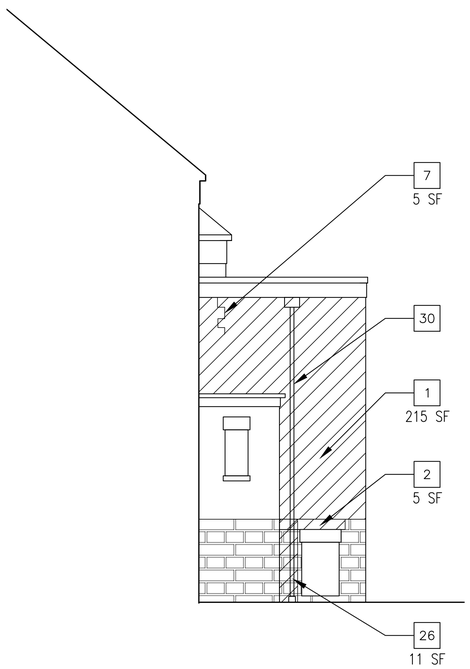
7 EXPANSION JOINT DETAIL
NTS



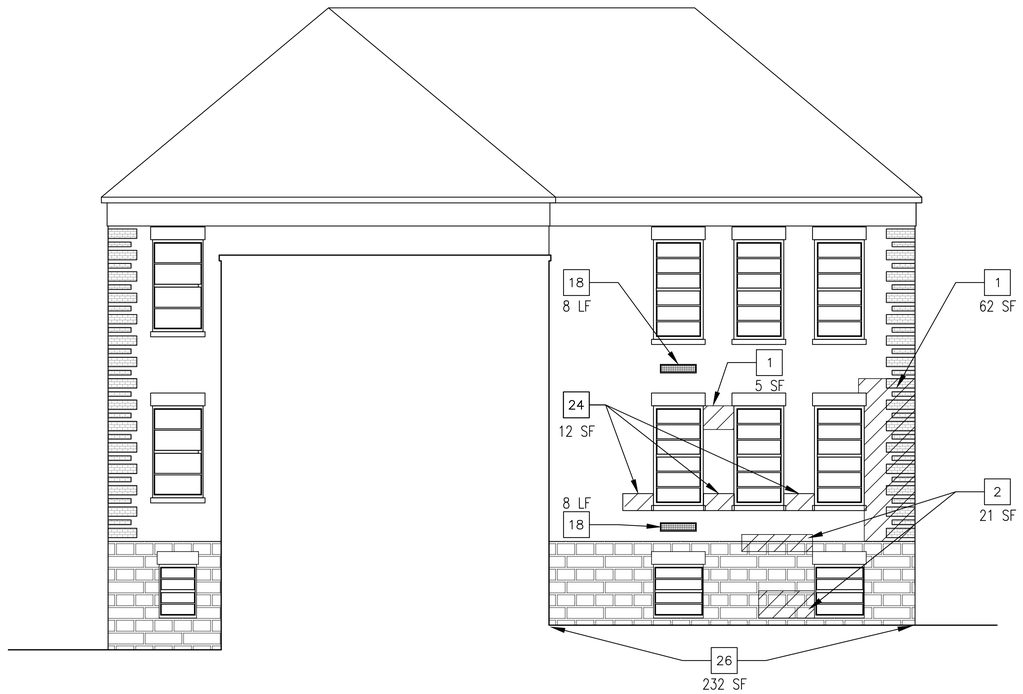
8 BRICK STITCHING PATTERN DETAIL
NTS



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



2 PARTIAL NORTH ELEVATION 2
SCALE: 3/16"=1'-0"



1 PARTIAL NORTH ELEVATION
SCALE: 3/16"=1'-0"

SCOPE NOTES:

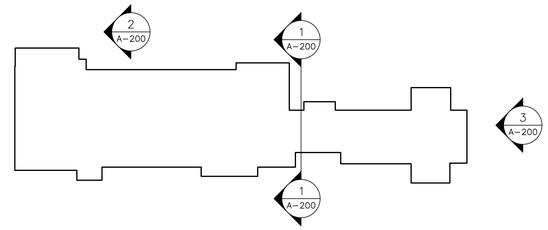
1. REPOINT BRICK
2. REPOINT STONE
3. REPOINT TERRACOTTA
4. CLEAN TERRACOTTA
5. CLEAN BRICK/STONE
6. REMOVE CMU & REPLACE W/ IRON WORKS
7. REPLACE CRACKED BRICK
8. RESET STONE SILL
9. SCRAPE LOOSE MATERIAL, REPAIR PLASTER, PRIME & PAINT
10. SCRAPE LOOSE MATERIAL, PRIME & PAINT
11. SCRAPE LOOSE MATERIAL FROM CRACK, PARGE
12. SCRAPE & PAINT RAILING
13. CLEAN CERAMIC TILE
14. REPLACE CRACKED TERRACOTTA
15. REALIGN WOOD TRIM
16. REPLACE CONCRETE WASH
17. REMOVE PAINT FROM BRICK
18. RESEAL AROUND VENTILATION GRATE & PAINT GRATE
19. REPLACE CAULKING
20. PROVIDE NEW LOUVER, VERIFY SIZE IN FIELD
21. REPAIR BROKEN FOUNDATION CORNER
22. REMOVE AND REPLACE BRICK ABOVE EXISTING LINTEL. REMOVE EXIST. FLASHING AND MASTIC, MACHINE TOOL CLEAN ANY EXPOSED PORTIONS OF STEEL LINTEL, PRIME AND PAINT, INSTALL NEW FLASHING. REFER TO DETAIL 4/A-200
23. SCRAPE POST, REPLACE BROKEN SPOT WELDS, PRIME & PAINT
24. CLEAN BRICK
25. POINT CRACK IN STONE
26. CLEAN ORGANIC MATERIAL OFF MASONRY
27. REPLACE MISSING IRON WORKS AT RAILING FLAT STOCK
28. RE-WELD LOOSE RAILING & COMPONENTS APPROX. 15 SPOT WELDS REQ'D
29. GROUT BRICK TO SECURE RAILINGS
30. REMOVE, STORE AND PROTECT EXISTING SCUPPER AND LEADER TO PERFORM MASONRY WORK AND REINSTALL WHEN MASONRY WORK IS COMPLETED. PROVIDE TEMPORARY MEANS TO CONVEY WATER AWAY FROM BUILDING.

LEGEND:

- GROUT HOLES
- AREA OF WORK

NOTE:

1. GENERAL CONTRACTOR TO REFER TO SPECIFICATIONS FOR ALLOWANCES AND UNIT PRICES FOR FACADE REPAIRS.



KEY PLAN
SCALE: NTS

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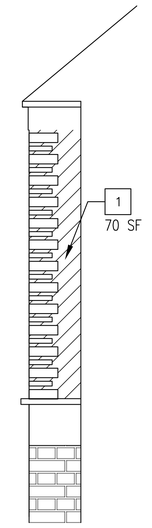
DRAWING TITLE
EXTERIOR ELEVATIONS-NORTH

SHEET NO.
A-200

YONKERS PUBLIC SCHOOLS

2 PARTIAL WEST ELEVATION – RIGHT
SCALE: 3/16"=1'-0"



3 PARTIAL SOUTH ELEVATION – RIGHT
SCALE: 3/16"=1'-0"

SCOPE NOTES:

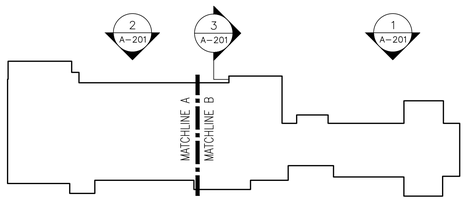
1. REPOINT BRICK
2. REPOINT STONE
3. REPOINT TERRACOTTA
4. CLEAN TERRACOTTA
5. CLEAN BRICK/STONE
6. REMOVE CMU & REPLACE W/ IRON WORKS
7. REPLACE CRACKED BRICK
8. RESET STONE SILL
9. SCRAPE LOOSE MATERIAL, REPAIR PLASTER, PRIME & PAINT
10. SCRAPE LOOSE MATERIAL, PRIME & PAINT
11. SCRAPE LOOSE MATERIAL FROM CRACK, PARGE
12. SCRAPE & PAINT RAILING
13. CLEAN CERAMIC TILE
14. REPLACE CRACKED TERRACOTTA
15. REALIGN WOOD TRIM
16. REPLACE CONCRETE WASH
17. REMOVE PAINT FROM BRICK
18. RESEAL AROUND VENTILATION GRATE & PAINT GRATE
19. REPLACE CAULKING
20. PROVIDE NEW LOUVER
21. REPAIR BROKEN FOUNDATION CORNER
22. REBUILD PORTION OF BRICK WALL
23. SCRAPE, PREP, PRIME & PAINT AND REPLACE BROKEN SPOT WELDS ON ENTIRE METAL STAIR ASSEMBLY.
24. CLEAN BRICK
25. POINT CRACK IN STONE
26. CLEAN ORGANIC MATERIAL OFF MASONRY
27. REPLACE MISSING IRON WORKS AT RAILING FLAT STOCK
28. RE-WELD LOOSE RAILING & COMPONENTS APPROX. 15 SPOT WELDS REQ'D
29. GROUT BRICK TO SECURE RAILINGS
30. REMOVE, STORE AND PROTECT EXISTING SCUPPER AND LEADER TO PERFORM MASONRY WORK AND REINSTALL WHEN MASONRY WORK IS COMPLETED. PROVIDE TEMPORARY MEANS TO CONVEY WATER AWAY FROM BUILDING.
31. REMOVE ENTIRE WINDOW ASSEMBLY AND TURN OVER TO OWNER. REMOVE AND REINSTALL WINDOW GUARDS TO PERFORM THIS WORK. CONNECT WINDOW OPERATORS TO NEW WINDOWS..
32. REMOVE EXISTING WINDOW AND REINSTALL IN SOUTH WALL OF GYM IN LOCATIONS SHOWN ON PLAN. INSTALL NEW LOUVERS, COORDINATE WITH HVAC WORK SCOPE. REMOVE AND REINSTALL WINDOW GUARDS TO PERFORM THIS WORK. CONNECT WINDOW OPERATORS TO NEW WINDOWS.
33. PROVIDE NEW WINDOW PER WINDOW TYPES ON SHEET A802. REMOVE AND REINSTALL WINDOW GUARDS TO PREFER THIS WORK. CONNECT WINDOW OPERATORS TO NEW WINDOWS.
34. REMOVE, STORE AND PROTECT EXISTING LEADER FOR RELOCATED INSTALLATION. PATCH EXISTING GUTTER. RESTORE MASONRY BEHIND EXISTING LEADER. SEAL EXISTING UNDERGROUND CONNECTION.
35. REINSTALL EXISTING LEADER IN NEW LOCATION AS SHOWN. CONNECT TO NEW UNDERGROUND STORM WATER SYSTEM. SEE A030 & A031.
36. REMOVE AND REPLACE BRICK ABOVE EXISTING LINTEL. REMOVE EXIST. FLASHING AND MASTIC, MACHINE TOOL CLEAN ANY EXPOSED PORTIONS OF STEEL LINTEL, PRIME AND PAINT, INSTALL NEW FLASHING. REFER TO DETAIL 4/A-200

LEGEND:

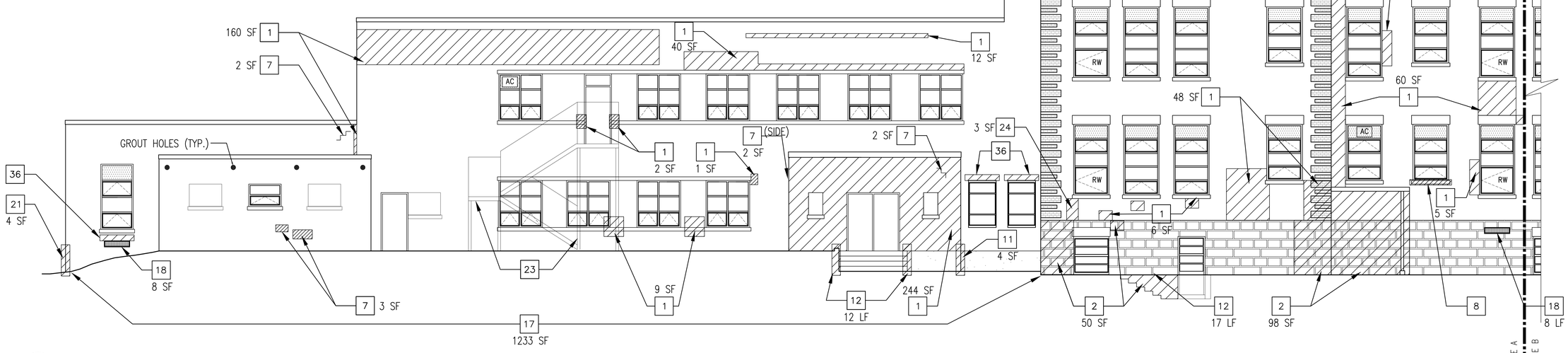
- GROUT HOLES
- AREA OF WORK

NOTE:

1. GENERAL CONTRACTOR TO REFER TO SPECIFICATIONS FOR ALLOWANCES AND UNIT PRICES FOR FACADE REPAIRS.



KEY PLAN
SCALE: NTS



1 PARTIAL WEST ELEVATION – LEFT
SCALE: 3/16"=1'-0"

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

REGISTERED ARCHITECT DAVID GAMBEL 029158 STATE OF NEW YORK

KEY PLAN
PROJECT NORTH

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PHONE: 914.328.6060 FAX: 914.328.5304 General@BGA-Eng.com

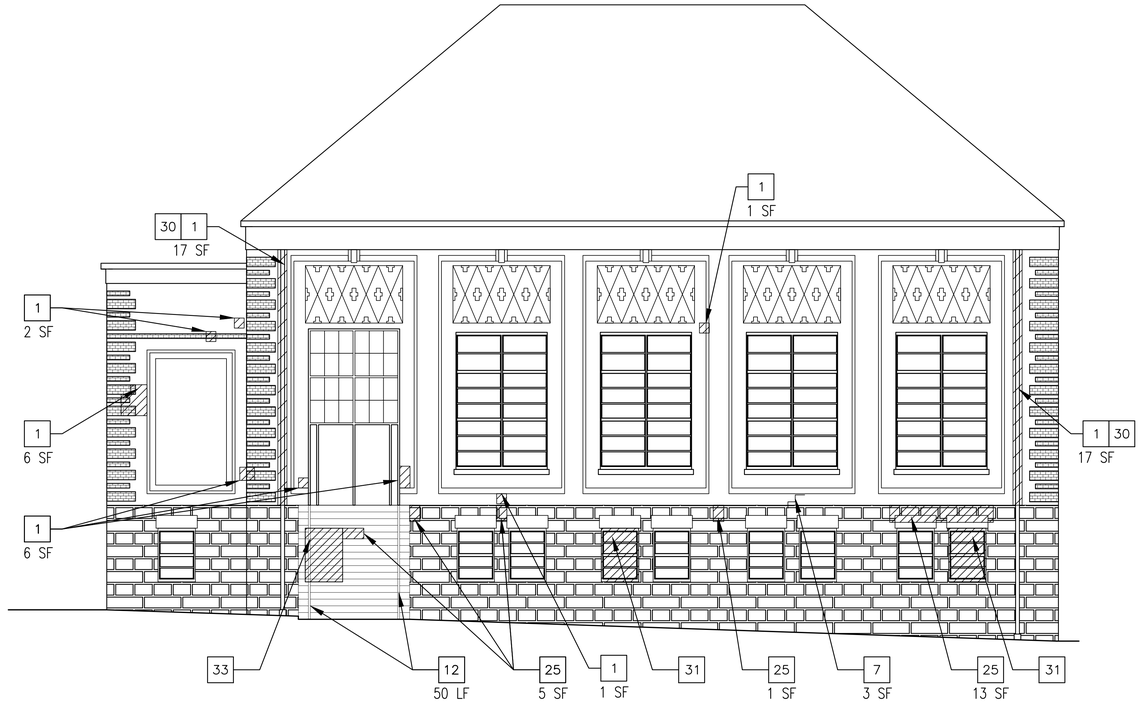
REV. NO.	DATE	DESCRIPTION
	01/23/19	SED FOR BUILDING PERMIT
	09/15/19	ISSUED FOR BID
	11/16/20	ISSUED FOR BID

SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

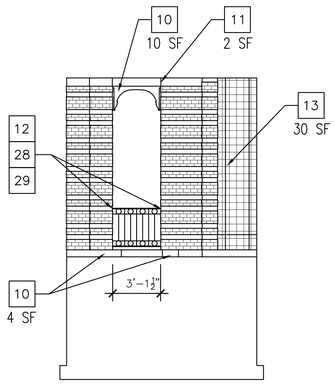
DRAWING TITLE
EXTERIOR ELEVATIONS-WEST

SHEET NO.
A-201

YONKERS PUBLIC SCHOOLS



5 SOUTH ELEVATION
SCALE: 3/16"=1'-0"



4 ENTRANCE – SOUTH FACE
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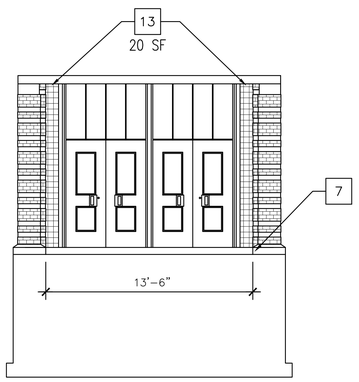
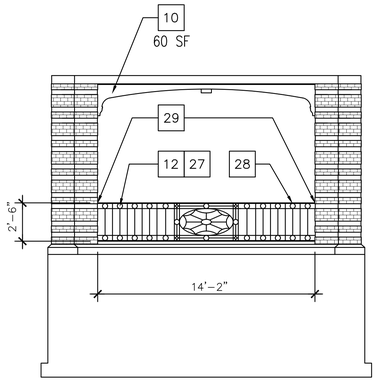
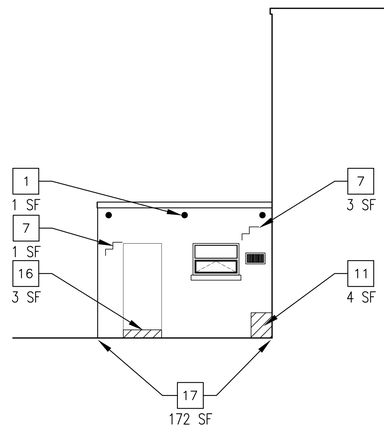
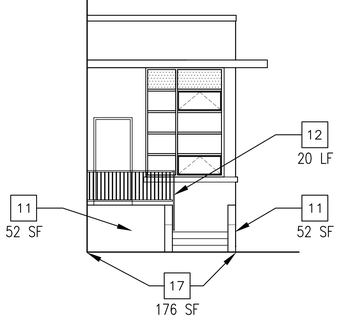


3 ENTRANCE – EAST FACE
SCALE: 1/4"=1'-0"



2 ENTRANCE – WEST FACE
SCALE: 1/4"=1'-0"





1 PARTIAL SOUTH ELEVATION
SCALE: 3/16"=1'-0"

SCOPE NOTES:

1	REPOINT BRICK
2	REPOINT STONE
3	REPOINT TERRACOTTA
4	CLEAN TERRACOTTA
5	CLEAN BRICK/STONE
6	REMOVE CMU & REPLACE W/ IRON WORKS
7	REPLACE CRACKED BRICK
8	RESET STONE SILL
9	SCRAPE LOOSE MATERIAL, REPAIR PLASTER, PRIME & PAINT
10	SCRAPE LOOSE MATERIAL, PRIME & PAINT
11	SCRAPE LOOSE MATERIAL FROM CRACK, PARGE
12	SCRAPE & PAINT RAILING
13	CLEAN CERAMIC TILE
14	REPLACE CRACKED TERRACOTTA
15	REALIGN WOOD TRIM
16	REPLACE CONCRETE WASH
17	REMOVE PAINT FROM BRICK
18	RESEAL AROUND VENTILATION GRATE & PAINT GRATE
19	REPLACE CAULKING
20	PROVIDE NEW LOUVER
21	REPAIR BROKEN FOUNDATION CORNER
22	REBUILD PORTION OF BRICK WALL
23	SCRAPE POST, REPLACE BROKEN SPOT WELDS. PREP, PRIME & PAINT ENTIRE METAL STAIR ASSEMBLY.
24	CLEAN BRICK
25	POINT CRACK IN STONE
26	CLEAN ORGANIC MATERIAL OFF MASONRY
27	REPLACE MISSING IRON WORKS AT RAILING FLAT STOCK
28	RE-WELD LOOSE RAILING & COMPONENTS APPROX. 15 SPOT WELDS REQ'D
29	GROUT BRICK TO SECURE RAILINGS
30	REMOVE, STORE AND PROTECT EXISTING SCUPPER AND LEADER TO PERFORM MASONRY WORK AND REINSTALL WHEN MASONRY WORK IS COMPLETED. PROVIDE TEMPORARY MEANS TO CONVEY WATER AWAY FROM BUILDING.
31	REMOVE ENTIRE WINDOW ASSEMBLY AND TURN OVER TO OWNER. REMOVE AND REINSTALL WINDOW GUARDS TO PERFORM THIS WORK. CONNECT WINDOW OPERATORS TO NEW WINDOWS..
32	REMOVE EXISTING WINDOW AND REINSTALL IN SOUTH WALL OF GYM IN LOCATIONS SHOWN ON PLAN. COORDINATE WITH HVAC WORK SCOPE. REMOVE AND REINSTALL WINDOW GUARDS TO PREFER THIS WORK. CONNECT WINDOW OPERATORS TO NEW WINDOWS.
33	PROVIDE NEW WINDOW PER WINDOW TYPES ON SHEET A802. REMOVE AND REINSTALL WINDOW GUARDS TO PREFER THIS WORK. CONNECT WINDOW OPERATORS TO NEW WINDOWS.

LEGEND:

- GROUT HOLES
- AREA OF WORK

NOTE:

1. GENERAL CONTRACTOR TO REFER TO SPECIFICATIONS FOR ALLOWANCES AND UNIT PRICES FOR FACADE REPAIRS.

KEY PLAN
SCALE: NTS

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER
10845

PROJECT NAME
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PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

REGISTERED ARCHITECT DAVID JOHN GAMBEL 023158 STATE OF NEW YORK

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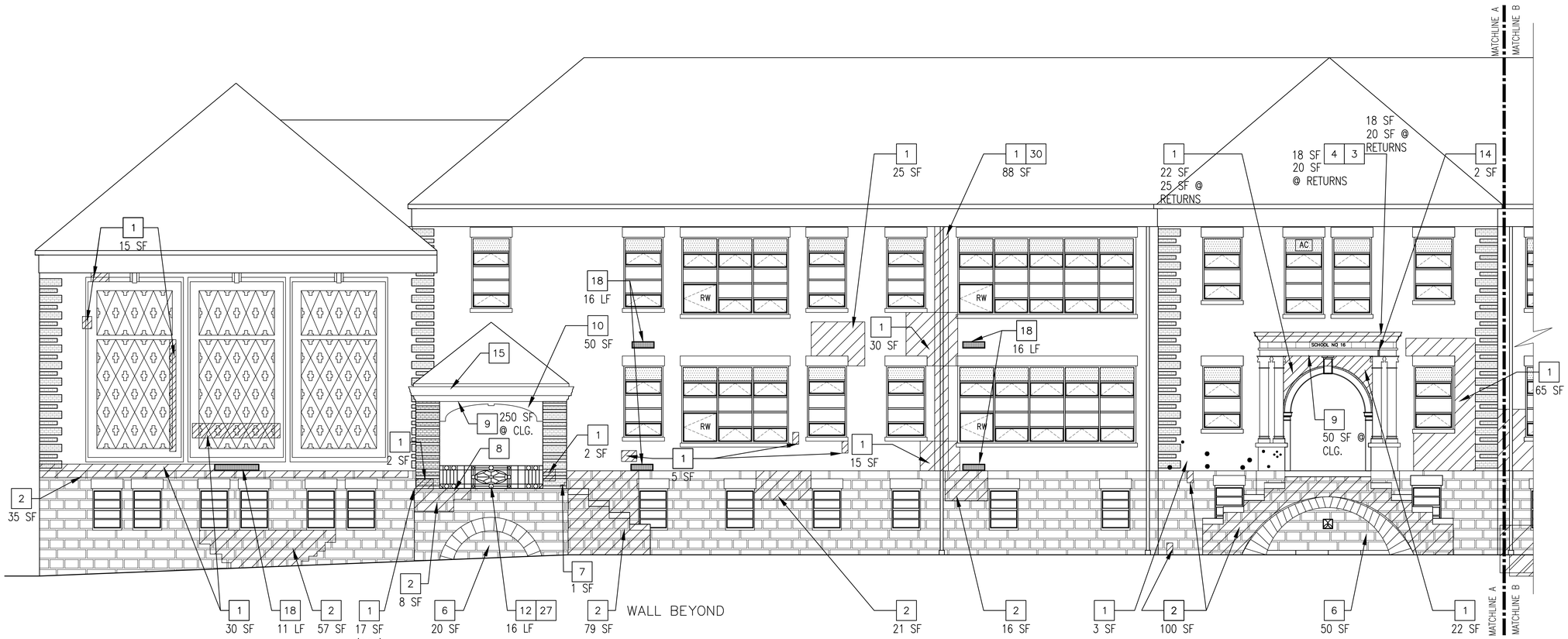
SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

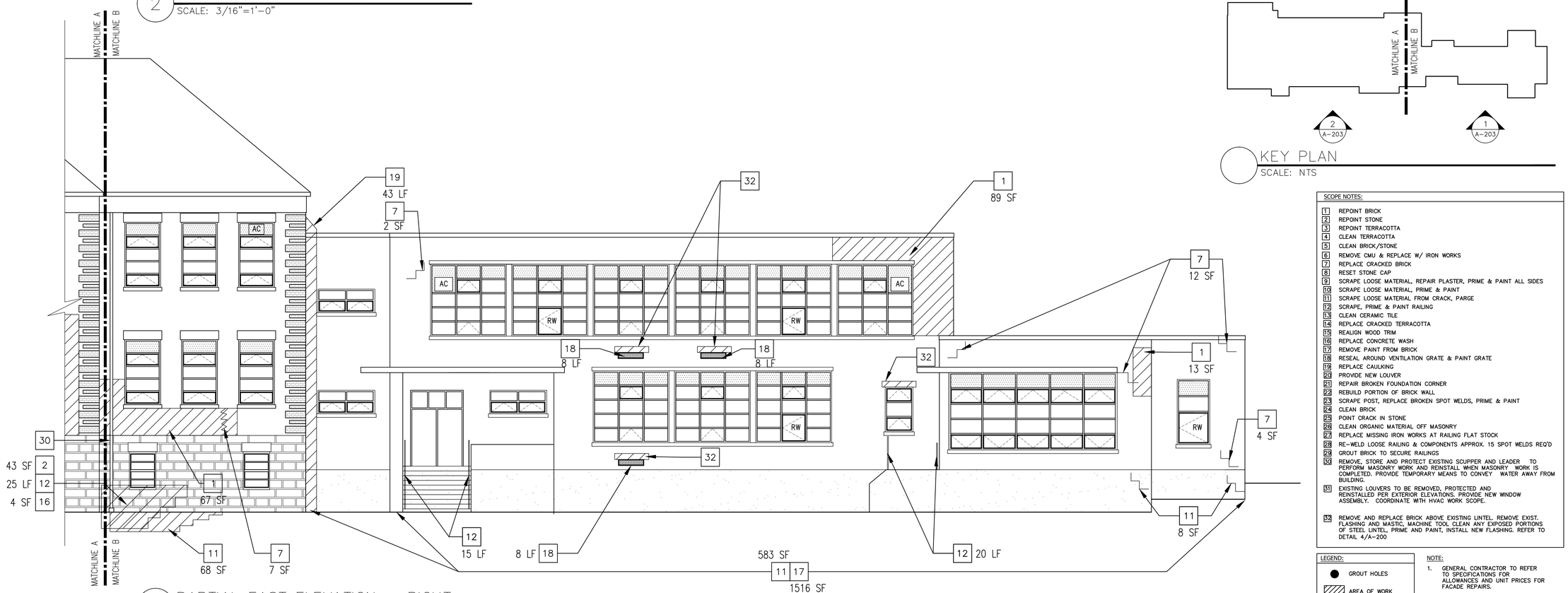
DRAWING TITLE
EXTERIOR ELEVATIONS-SOUTH

SHEET NO.
A-202

YONKERS PUBLIC SCHOOLS



2 PARTIAL EAST ELEVATION – LEFT
SCALE: 3/16"=1'-0"



1 PARTIAL EAST ELEVATION – RIGHT
SCALE: 3/16"=1'-0"

KEY PLAN
SCALE: NTS

SCOPE NOTES:

1. REPOINT BRICK
2. REPOINT STONE
3. REPOINT TERRACOTTA
4. CLEAN TERRACOTTA
5. CLEAN BRICK/STONE
6. REMOVE CMU & REPLACE W/ IRON WORKS
7. REPLACE CRACKED BRICK
8. RESET STONE CAP
9. SCRAPE LOOSE MATERIAL, REPAIR PLASTER, PRIME & PAINT ALL SIDES
10. SCRAPE LOOSE MATERIAL, PRIME & PAINT
11. SCRAPE LOOSE MATERIAL FROM CRACK, PARGE
12. SCRAPE, PRIME & PAINT RAILING
13. CLEAN CERAMIC TILE
14. REPLACE CRACKED TERRACOTTA
15. REALIGN WOOD TRIM
16. REPLACE CONCRETE WASH
17. REMOVE PAINT FROM BRICK
18. RESEAL AROUND VENTILATION GRATE & PAINT GRATE
19. REPLACE CAULKING
20. PROVIDE NEW LOUVER
21. REPAIR BROKEN FOUNDATION CORNER
22. REBUILD PORTION OF BRICK WALL
23. SCRAPE POST, REPLACE BROKEN SPOT WELDS, PRIME & PAINT
24. CLEAN BRICK
25. POINT CRACK IN STONE
26. CLEAN ORGANIC MATERIAL OFF MASONRY
27. REPLACE MISSING IRON WORKS AT RAILING FLAT STOCK
28. RE-WELD LOOSE RAILING & COMPONENTS APPROX. 15 SPOT WELDS REQ'D
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31. EXISTING LOUVERS TO BE REMOVED, PROTECTED AND REINSTALLED PER EXTERIOR ELEVATIONS. PROVIDE NEW WINDOW ASSEMBLY. COORDINATE WITH HVAC WORK SCOPE.
32. REMOVE AND REPLACE BRICK ABOVE EXISTING LINTEL. REMOVE EXIST. FLASHING AND MASTIC, MACHINE TOOL CLEAN ANY EXPOSED PORTIONS OF STEEL LINTEL, PRIME AND PAINT, INSTALL NEW FLASHING. REFER TO DETAIL 4/A-200

LEGEND:
- GROUT HOLES
- AREA OF WORK

NOTE:
1. GENERAL CONTRACTOR TO REFER TO SPECIFICATIONS FOR ALLOWANCES AND UNIT PRICES FOR FACADE REPAIRS.

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

REGISTERED ARCHITECT DANIEL JOHN GAMBINO 023158 STATE OF NEW YORK

KEY PLAN
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SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

DRAWING TITLE
EXTERIOR ELEVATIONS- EAST

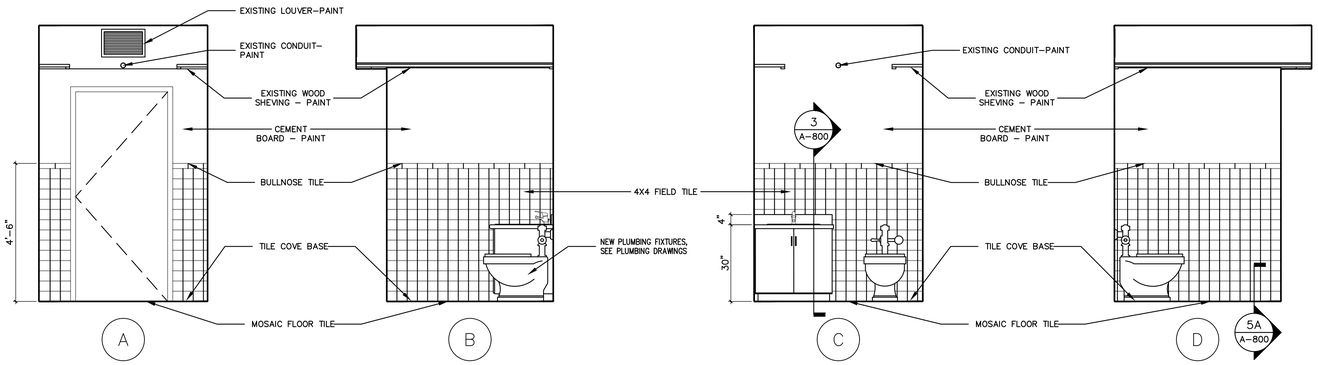
SHEET NO.
A-203

YONKERS PUBLIC SCHOOLS

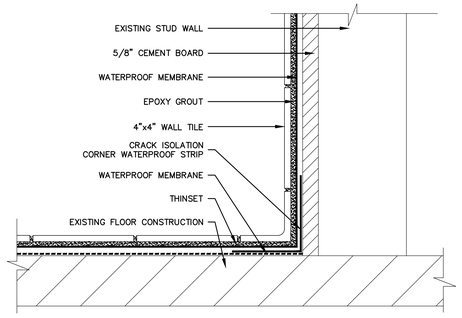
DOOR SCHEDULE

DOOR No.	LOCATION		DOOR				UNDER CUT 3/4"	FIRE LABEL MIN.	REMARKS	HARD-WARE SET
	ROOM FROM	ROOM TO	TYPE	MAT'L	WIDTH (V.I.F.)	HEIGHT (V.I.F.)				
D1	CORRIDOR	S.E. CLASSROOM 15	B	WOOD	3'-4"	8'-0"		45 MIN.	NOTE 1 & 2	1
D2	CORRIDOR	OFFICE	B	WOOD	3'-4"	8'-0"		45 MIN.	NOTE 1 & 2	1
D3	CORRIDOR	MECHANICAL	A	STEEL	3'-4"	8'-0"		45 MIN.	NOTE 2	2
D4	CORRIDOR	CLASSROOM 10	B	WOOD	3'-8"	8'-0"		45 MIN.	NOTE 1 & 2	1
D5	CORRIDOR	STORAGE	A	WOOD	3'-4"	8'-0"		45 MIN.	NOTE 2	1
D6	CORRIDOR	CLASSROOM 12	B	WOOD	3'-4"	8'-0"		45 MIN.	NOTE 1 & 2	1
D7	CORRIDOR	CLASSROOM 14	B	WOOD	3'-4"	8'-0"		45 MIN.	NOTE 1 & 2	1
D8	CORRIDOR	CORRIDOR	B	WOOD	3'-6"	8'-0"		45 MIN.	NOTE 1 & 2	2
D9	CORRIDOR	STAIR #1	C	WOOD	(2) 2'-6"	8'-0"		45 MIN.	NOTE 1 & 2	2
D10	CLOSET (A1)	IT CLOSET (A2)	A	WOOD	3'-4"	8'-0"		45 MIN.	NOTE 2	3

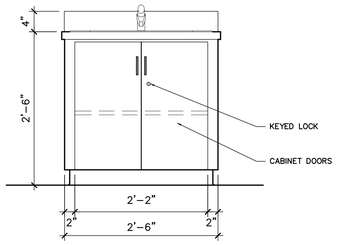
NOTE 1: PAINT EXISTING DOOR FRAME INCLUDING TRANSOM WINDOW ABOVE.
NOTE 2: GENERAL CONTRACTOR TO FIELD VERIFY ALL DOOR DIMENSIONS.
NOTE 3: GENERAL CONTRACTOR TO VERIFY EXISTING DOOR HAND DIRECTION AND SWING AND MAKE MODIFICATIONS TO FRAME ACCORDINGLY TO ACCOMMODATE NEW DOOR AND SWING AS SHOWN ON PLANS.



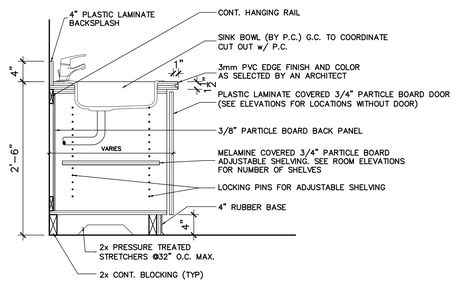
5 TOILET ROOM INT. ELEVATIONS
SCALE: 1/2"=1'-0"



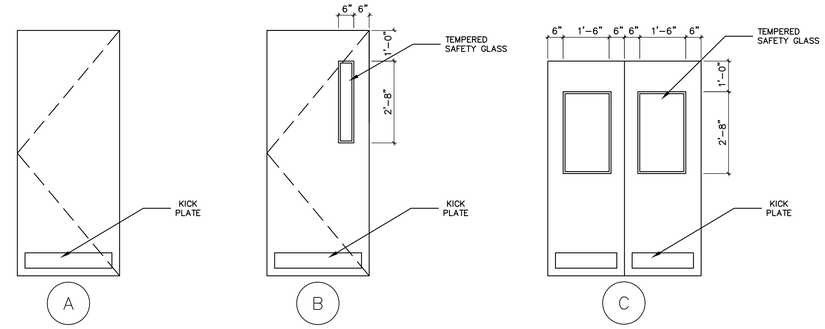
5A TILE DETAIL
SCALE: N.T.S.



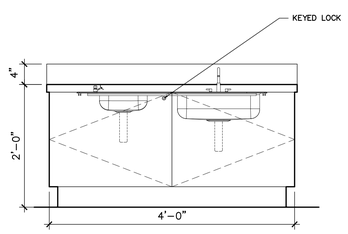
SINK CABINET ELEVATION

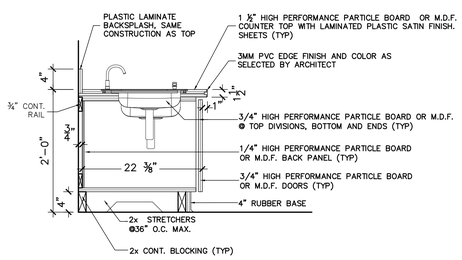


3 SINK CABINET - TOILET ROOM
SCALE: 1"=1'-0"

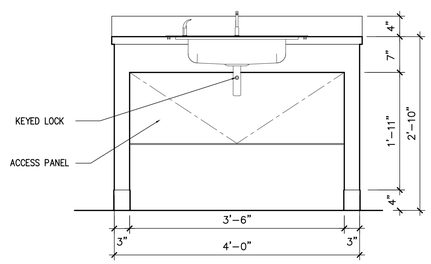


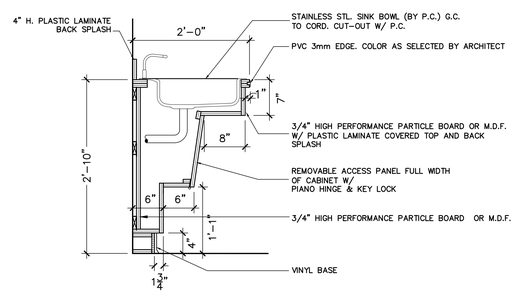
4 DOOR TYPE ELEVATIONS
SCALE: 1/2"=1'-0"





2 SINK CABINET - CLASSROOM #14
SCALE: 1"=1'-0"





1 SINK CABINET - CLASSROOM #12
SCALE: 1"=1'-0"

YONKERS PUBLIC SCHOOLS

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YONKERS PROJECT NUMBER
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	11/16/20	ISSUED FOR BID

SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

DRAWING TITLE
DOOR SCHEDULE, MILLWORK DETAILS & INTERIOR ELEVATIONS

SHEET NO.
A-800

FINISH SCHEDULE

NOTE: ALL FINISHES SHALL BE CLASS "A"
SEE WALL ELEVATIONS FOR SPECIFIC COLORS AND PATTERNS.

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS		CEILING			REMARKS
		MAT.	MAT.	MAT.	FIN.	MAT.	FIN.	HEIGHT	
1	STAIR	EX. TZ	VB	PL	PT	PL	PT	9'-0"	
2	CORRIDOR	EX. TZ	VB	BK/GB	PT	PL	PT	11-0"	PROVIDE 6" VINYL BASE
4	GYMNASIUM	VCT	VB	BK	PT	PL	PT	16'-0"	PROVIDE 6" VINYL BASE
5	STORAGE	LVT	VB	PL	PT	PL	PT	16'-0"	
5a	STORAGE	LVT	VB	PL	PT	PL	PT	16'-0"	
10	CLASSROOM	LVT	VB	PL	PT	PL	PT	11'-0"	
10a	STORAGE	LVT	VB	PL	PT	PL	PT	11'-0"	
10b	STORAGE	LVT	VB	PL	PT	PL	PT	11'-0"	
12	CLASSROOM	LVT	VB	PL	PT	PL	PT	11'-0"	
12a	STORAGE	LVT	VB	PL	PT	PL	PT	11'-0"	
12b	STORAGE	LVT	VB	PL	PT	PL	PT	11'-0"	
14	CLASSROOM	LVT	VB	PL	PT	PL	PT	11'-0"	
14a	TOILET	CT	CT	GB	CT	GB	PT	9'-0"	
14b	STORAGE	LVT	VB	PL	PT	PL	PT	11-0"	
15	SPEECH	LVT	VB	PL	PT	PL	PT	11'-0"	
16	GYM. STAIRHALL #1	EX.C	VB	PL	PT	PL	PT	11'-0"	PROVIDE 6" VINYL BASE
17	GYM. STAIRHALL #2	EX.C	VB	BK/PL	PT	PL	PT	11'-0"	PROVIDE 6" VINYL BASE
A1	STORAGE	LVT	VB	GB	PT	PL	PT	13'-0"	
A2	IT CLOSET	EX.	VB	GB	PT	PL	PT	9'-0"	

FINISH KEY:

CPT= CARPET
VCT= VINYL COMPOSITE TILE
CT = CERAMIC TILE
PT = PAINT
EX. TZ = EXISTING TERRAZZO
EX. = EXISTING TO REMAIN
EX. C = EXISTING CONCRETE TO BE PAINTED

BK = BRICK
GB = GYPSUM BOARD
VB = VINYL BASE
WD = WOOD
PL = PLASTER
LVT = LUXURY VINYL TILE

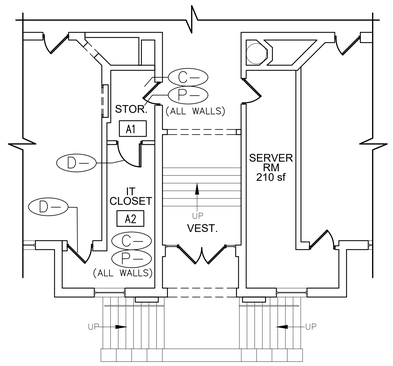
FINISH NOTES:

1. REMOVE EXISTING VINYL BASE WHERE NEW IS SCHEDULED. PROVIDE 4" VINYL BASE, U.N.O.
2. REMOVE EXISTING FLOORING WHERE NEW IS SCHEDULED.
3. PAINT PLASTER CEILING, PIPES, RADIATORS, HEATERS, ACCESS PANELS, VENTILATION EQUIPMENT, JUNCTION BOXES, CONDUIT, & ALL MISC. EQUIPMENT PREVIOUSLY PAINTED.

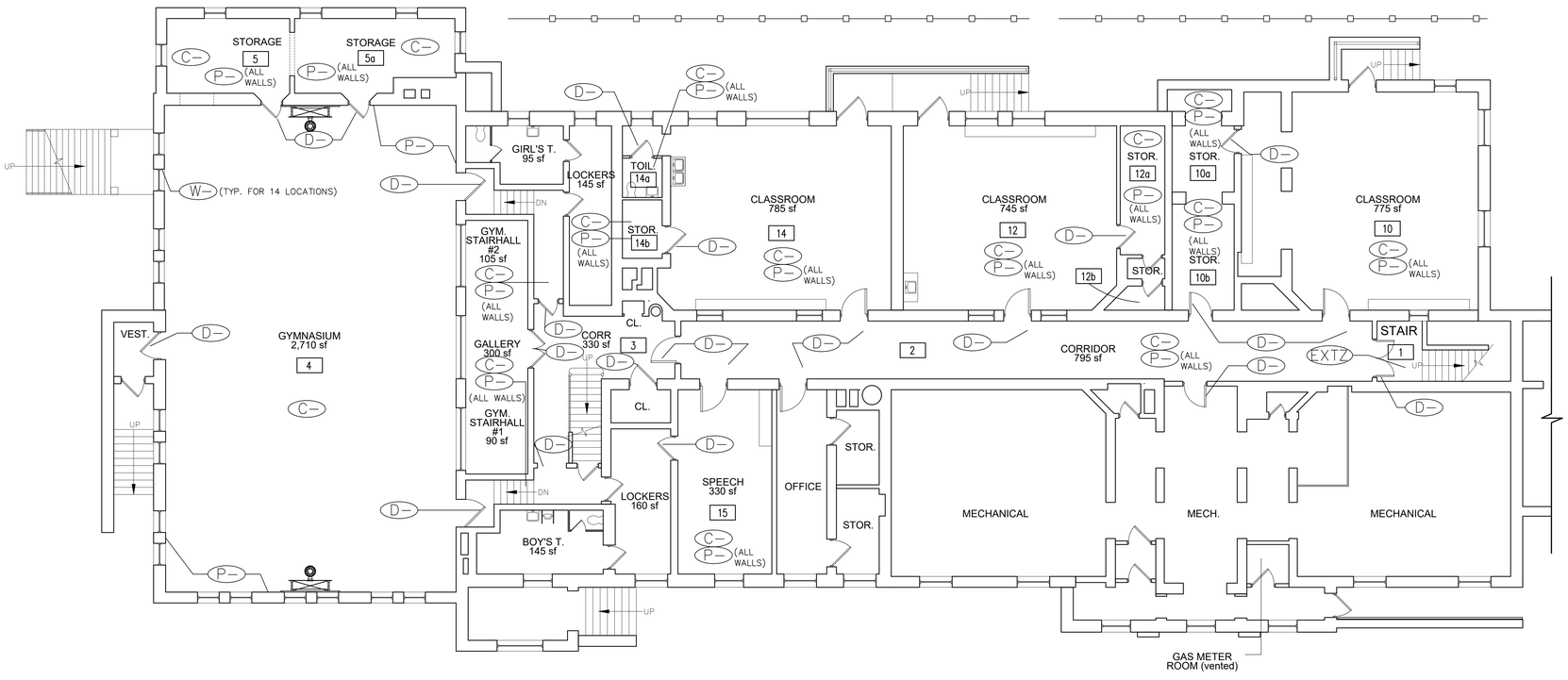
LEGEND:

- (D–) PAINT DOOR & DOOR FRAME
- (DF–) PAINT EXISTING DOOR/ WINDOW FRAME
- (P–) PAINT WALL
- (C–) PAINT CEILING
- (W–) PAINT INSIDE OF WINDOW OPENINGS, TYP. FOR HEAD, JAMBS & SILLS
- (EXTZ) EXISTING TERRAZZO

NOTE: PAINT COLORS TO BE SELECTED BY OWNER FROM SHERWIN WILLIAMS COLOR PALETTE OR EQUAL.



2 PARTIAL FIRST FLOOR FINISH PLAN
SCALE: 1/8"=1'-0"



1 BASEMENT FLOOR FINISH PLAN
SCALE: 1/8"=1'-0"

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER
10845

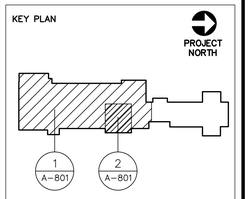
PROJECT NAME
YONKERS PUBLIC SCHOOLS

PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

REGISTERED ARCHITECT DAVID JOHN SAMUEL 033158 STATE OF NEW YORK

KEY PLAN



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PHONE: 914.328.6040 FAX: 914.328.9304 General@BGA-Eng.com

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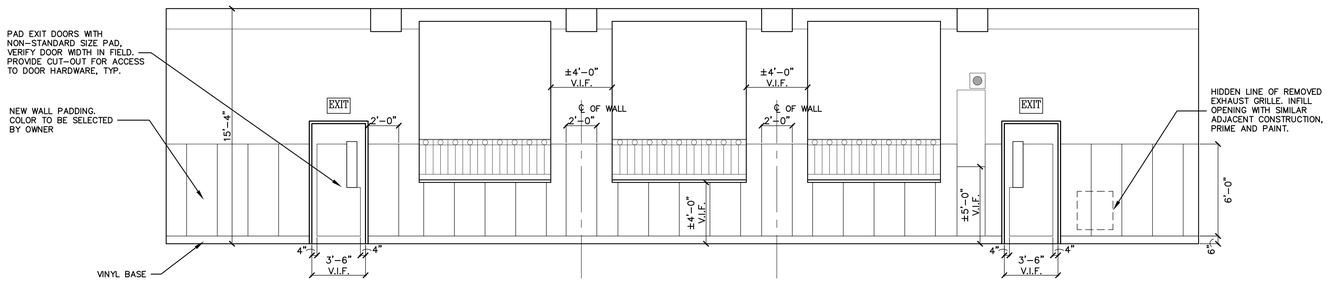
SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

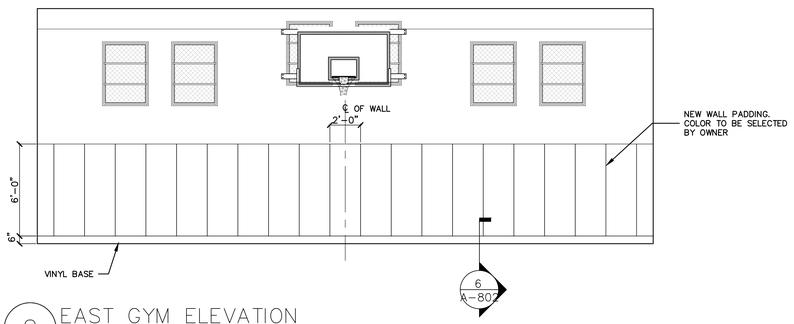
DRAWING TITLE
BASEMENT & FIRST FLOOR FINISH

SHEET NO.
A-801

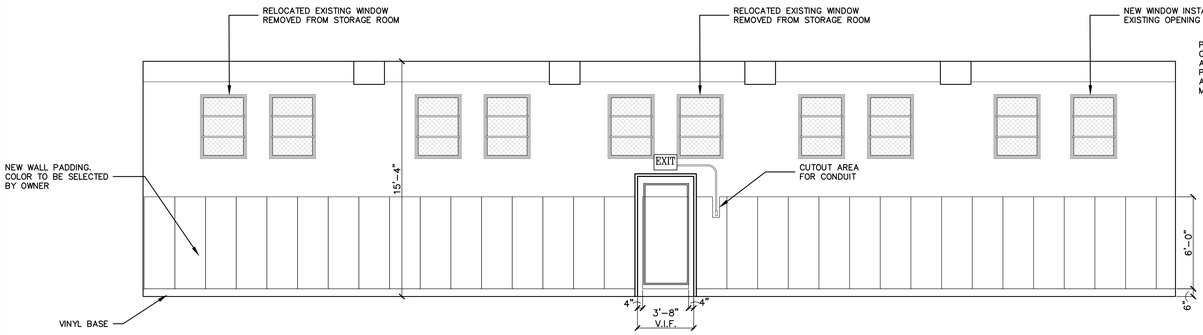
YONKERS PUBLIC SCHOOLS



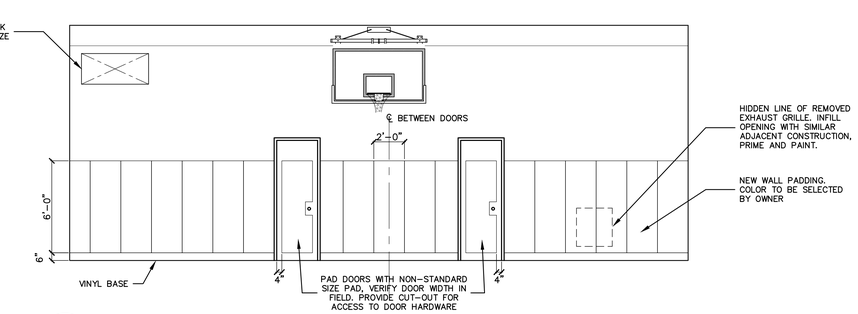
1 NORTH GYM ELEVATION
SCALE: 1/4"=1'-0"



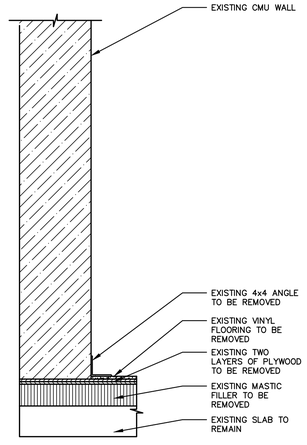
2 EAST GYM ELEVATION
SCALE: 1/4"=1'-0"



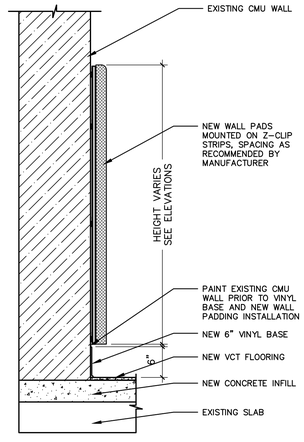
3 SOUTH GYM ELEVATION
SCALE: 1/4"=1'-0"



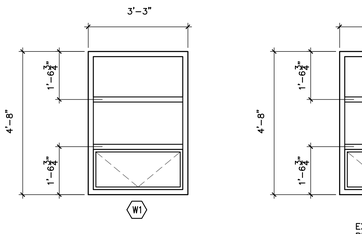
4 WEST GYM ELEVATION
SCALE: 1/4"=1'-0"



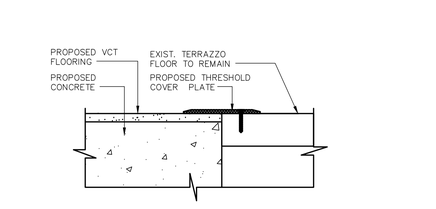
5 EXISTING WALL SECTION @ GYM
SCALE: 1"=1'-0"



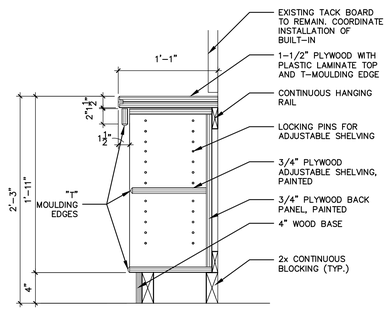
6 PROPOSED WALL SECTION @ GYM
SCALE: 1"=1'-0"



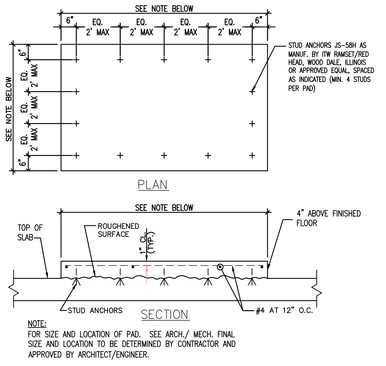
7 WINDOW TYPES
SCALE: 1/2"=1'-0"



8 DOOR THRESHOLD DETAIL
SCALE: 3"=1'-0"

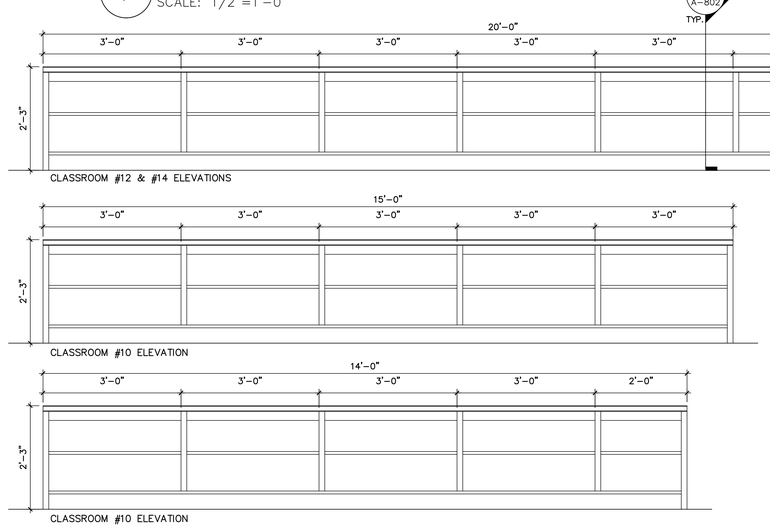


9 CASEWORK DETAIL
SCALE: 1-1/2"=1'-0"



NOTE:
FOR SIZE AND LOCATION OF PAD. SEE ARCH./ MECH. FINAL SIZE AND LOCATION TO BE DETERMINED BY CONTRACTOR AND APPROVED BY ARCHITECT/ENGINEER.

11 CONC. EQUIP. PAD DETAIL
SCALE: 1/2"=1'-0"



10 CASEWORK ELEVATIONS
SCALE: 3/4"=1'-0"

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

REGISTERED ARCHITECT DANIAGH M. GAMBLE 023158 STATE OF NEW YORK

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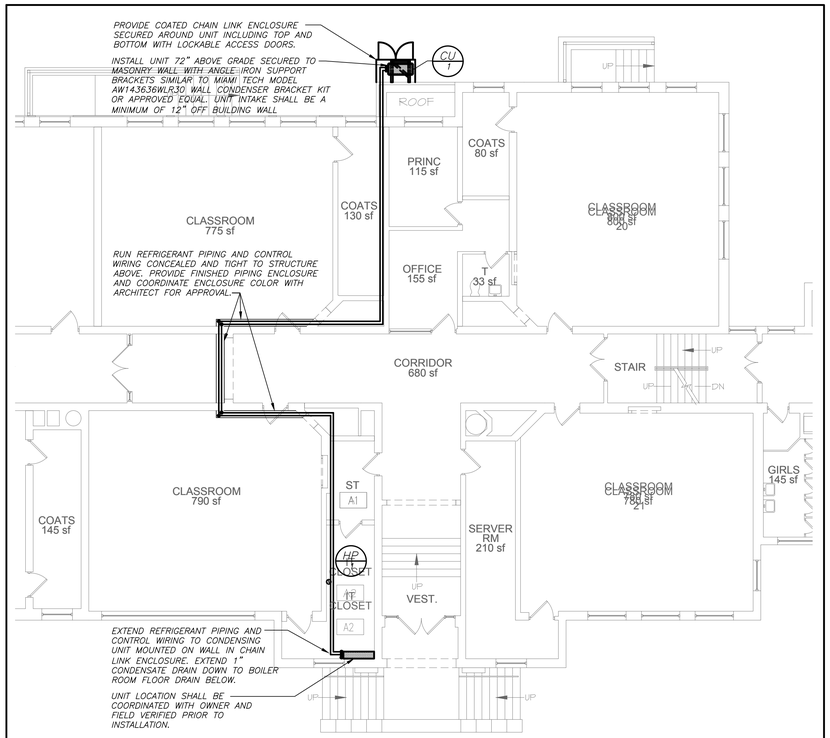
DRAWN BY: K.C.	CHECKED BY: C.G.

DRAWING TITLE
GYM INTERIOR ELEVATIONS & DETAILS

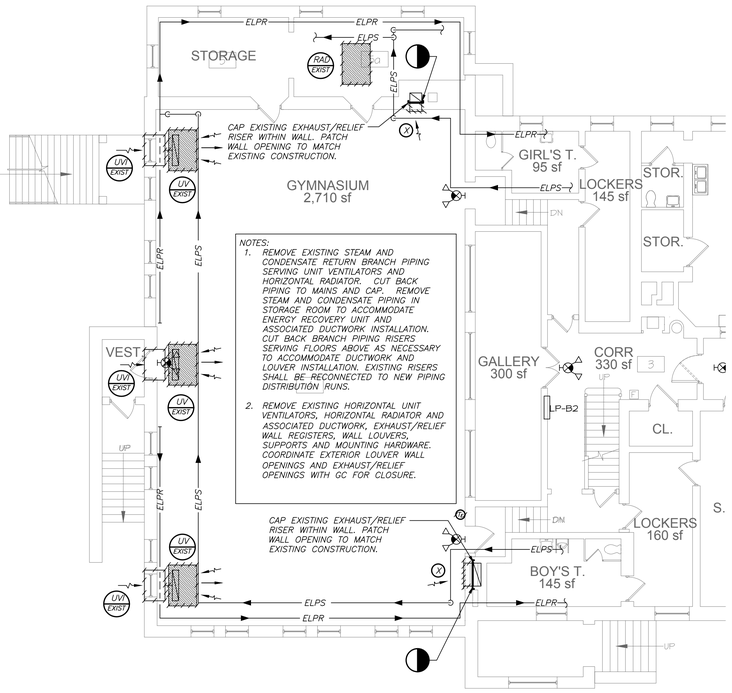
SHEET NO.
A-802

YONKERS PUBLIC SCHOOLS



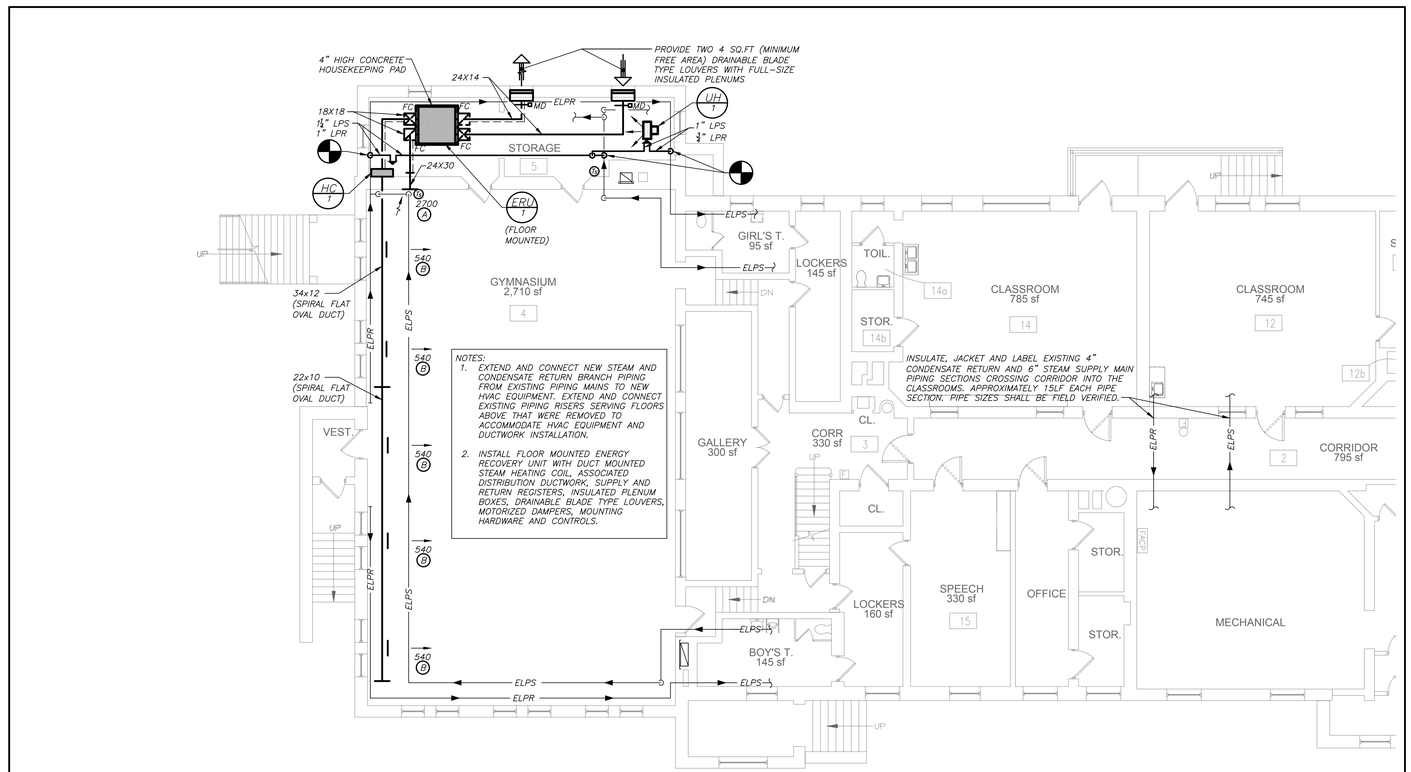
PART FIRST FLOOR PLAN (NEW WORK)

3 H101 — 0 8' 16' — 1/8 inch=1 foot



PART BASEMENT FLOOR PLAN (REMOVALS)

1 H101 — 0 8' 16' — 1/8 inch=1 foot



PART BASEMENT FLOOR PLAN (NEW WORK)

2 H101 — 0 8' 16' — 1/8 inch=1 foot

LEGEND

	EXISTING DUCTWORK, EQUIPMENT, ETC. TO REMAIN
	EXISTING DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED
	POINT OF CHANGE IN DUCT SIZE
	NEW DUCTWORK
	FLEXIBLE CONNECTION (WHERE APPLICABLE)
	NEW DUCTWORK
	POINT OF CHANGE IN DUCT SIZE
	SQUARE DUCT TURN WITH TURNING VANES
	EXISTING CEILING EXHAUST/RETURN REGISTER/GRILLE
	TYPE - SEE SCHEDULE 4-WAY CEILING DIFFUSER
	TYPE - SEE SCHEDULE 1-WAY CEILING DIFFUSER
	TYPE-SEE SCHEDULE REGISTER/DIFFUSER IDENTIFICATION
	DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)
MD	MOTORIZED DAMPER
	FIRE DAMPER AND ACCESS DOOR/SMOKE DAMPER AND ACCESS DOOR
ELPS	EXISTING LOW PRESSURE STEAM SUPPLY PIPE
ELPR	EXISTING LOW PRESSURE STEAM RETURN PIPE
LPS	LOW PRESSURE STEAM SUPPLY PIPE
LPR	LOW PRESSURE STEAM RETURN PIPE
CD	CONDENSATE DRAIN PIPING
	FLOW DIRECTION WITHIN PIPE
	SHUT OFF VALVE
	COMBINATION BALANCING & SHUT-OFF VALVE (CIRCUIT SETTER)
	2 - WAY CONTROL VALVE
	CHECK VALVE
	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
	CLEAN OUT
AV	AUTOMATIC AIR VENT IDENTIFICATION
	THERMOMETER
	PRESSURE GAUGE (WITH SHUT-OFF COCK)
	STRAINER WITH BLOWDOWN
UV EXIST	EXISTING UNIT VENTILATOR IDENTIFICATION
UVL EXIST	EXISTING UNIT VENTILATOR LOUVER IDENTIFICATION
UH	NEW UNIT HEATER IDENTIFICATION
ERV	NEW ENERGY RECOVERY UNIT IDENTIFICATION
HP	NEW HEAT PUMP UNIT IDENTIFICATION
CU	NEW CONDENSING UNIT IDENTIFICATION
TS	NEW WALL MTD.(5'-2"+/- A.F.F.) TEMPERATURE SENSOR
TE	EXISTING TEMPERATURE SENSOR
	POINT OF DISCONNECTION
	POINT OF CONNECTION, NEW TO EXISTING
WMS	WIRE MESH SCREEN
CFM	CUBIC FEET PER MINUTE
AFF	ABOVE FINISHED FLOOR
OAI	OUTSIDE AIR INTAKE
FC	FLEXIBLE CONNECTION
AD	ACCESS DOOR
MD	MOTORIZED DAMPER
VD	VOLUME DAMPER
FD/AD	FIRE DAMPER AND ACCESS DOOR
C.O.	CLEAN OUT
G.C.	GENERAL CONTRACTOR
	SECTION/DETAIL/ELEVATION/PART PLAN NUMBER DRAWING NUMBER SECTION/ELEVATION IDENTIFICATION

REMOVAL NOTES

1. THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.
2. DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
3. EQUIPMENT, PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
4. ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

YONKERS PUBLIC SCHOOLS

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER

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PROJECT NAME

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PS 16 - YONKERS

759 NORTH BROADWAY
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RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

STATE OF NEW YORK — PAUL J. GALLAGHER — 081281 — LICENSED PROFESSIONAL ENGINEER

KEY PLAN

PROJECT NORTH

1 H103 — 2 H103 — 3 H103

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DRAWN BY: K.C.	CHECKED BY: C.G.

DRAWING TITLE

LEGEND, NOTES, PART BASEMENT AND FIRST FLOOR PLANS

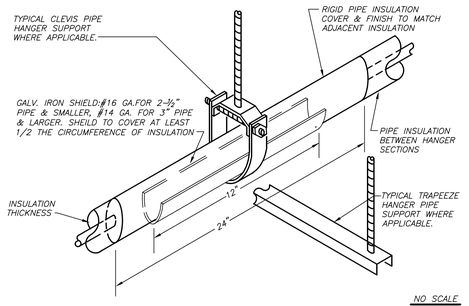
SHEET NO.

H101.00

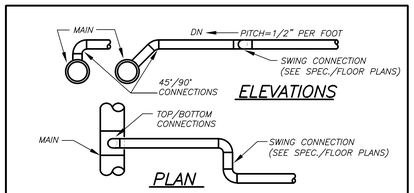
SCHEDULE OF ENERGY RECOVERY UNITS

GENERAL DATA					SUPPLY FAN DATA			RETURN–EXHAUST FAN DATA			HEATING COIL DATA				PRE & AFTER–FILTER DATA			ELECTRICAL DATA			ERU DIMENSION & WTS.				REMARKS
MARK	SERVICE	LOCATION	OUTSIDE AIR CFM	MODEL No. (1)	CFM	EXT. S.P. IN WC	MOTOR HP	CFM	RA, E.S.P. IN WC	MOTOR HP	MARK	TOT. CAP. MBH	MIN. COIL FACE AREA	STEAM PRES.	NO.	SIZE	TYPE	V/PH/HZ	MCA	MOCP	L	W	H	WTS–#	
ERU-1	GYM	STORAGE ROOM	2700	UERV3000HH	2700	1.25	3.0	2700	1.25	3.0	HC-1	208	2.0	2 PSI	–	–	MERV 13	208/3/60	27.0	30	58	58	60	700	REFER TO (4)(5)(6)

NOTES:
1. AS MANUFACTURED BY "ENERGY WALL"
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE FACTORY INSTALLED VARIABLE SPEED CONTROL, MOTORIZED SUPPLY/EXHAUST DAMPERS (FIELD INSTALLED), DAMPER END SWITCHES, RE–CIRCULATION DRY CONTACTS, LOW TEMP LIMIT, DIRTY FILTER SWITCH, MERV 13 FILTERS, BACNET COMPATIBLE CONTROLLER, DUCT MOUNTED STEAM HEATING COIL, SUPPLY/RETURN TEMPERATURE SENSORS, REMOTE WALL MOUNTED (PLATE TYPE) TEMPERATURE SENSORS, DDC CONTROLLER TIED INTO DISTRICT ATC.
4. UNIT SHALL BE DELIVERED IN MULTIPLE SECTIONS AND ASSEMBLED IN ROOM BY FACTORY TRAINED REPRESENTATIVE. UNIT SHALL BE INSTALLED ON CONCRETE HOUSE KEEPING PAD. PROVIDE NEOPRENE WAFFLE PAD VIBRATION ISOLATORS AT BASE OF UNIT.
5. DESIGN AIR CONDITIONS: SUMMER OA (95°F/75°F) RA (75°F/63°F)
   WINTER OA (0°F/0°F) RA (70°F/53°F)



INSULATED PIPE HANGER DETAIL 6/H102 — NO SCALE



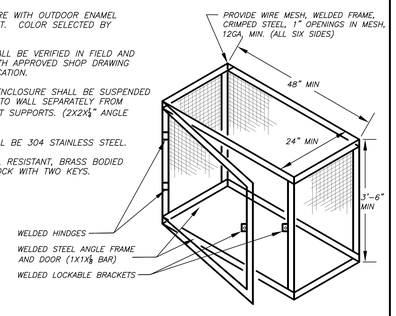
DETAIL OF PIPING BRANCH CONNECTION 5/H102 — NO SCALE

SCHEDULE OF DUCTLESS SPLIT SYSTEM AND VRF AIR CONDITIONING UNITS

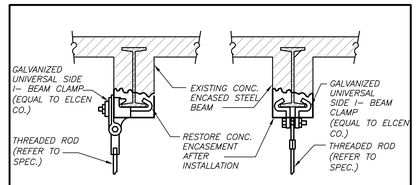
INDOOR UNIT INFORMATION											OUTDOOR CONDENSING UNIT INFORMATION							
GENERAL DATA		MODEL No. (1)	SUPPLY FAN DATA			TOTAL CAPACITY	DIMENSION/WEIGHT				GENERAL INFO.		COMPRESSOR DATA				UNIT DIMENSIONS (IN)	UNIT WEIGHT (LBS)	REMARKS
MARK	SERVICE		CFM HIGH	UNIT MCA	ELECTRIC SERVICE	COOLING/HEATING kBTU/HR	W (IN.)	D (IN.)	H (IN.)	LBS	MARK	MODEL No. (1)	QTY.	MCA	MOCP	ELECTRIC SERVICE			
HP-1	DATA CLOSET	ARNU243SKA4	450	0.52	208/1/60	24,200/25,600	47	11	14	35	CU-1	ARUN024GSS4	1	20.0	30.0	208/1/60	38Lx16Wx33H	175	REFER TO (2)(3)(4)(5)(6)

NOTES:
1. AS MANUFACTURED BY "LG".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R–410A, EER 12.5/SEER 20.5/HSPF10.3.
4. PROVIDE UNIT WITH MOUNTING HARDWARE, LOW AMBIENT CONTROLS, DRAIN PAN HEATER, BASE PAN/CRANKCASE HEATER, DRY CONTACTS FOR BMS CONTROL, HARD WIRED PROGRAMMABLE THERMOSTAT.
5. PROVIDE PIPING ENCLOSURES TO CONCEAL ALL PIPING AND WIRING IN OCCUPIED AREAS.
6. FOR INDOOR UNIT PROVIDE WALL MOUNTING HARDWARE, DISCONNECT AND HARDWIRED REMOTE WALL MOUNTED CONTROLLER/THERMOSTAT.

NOTES:
1. PAINT ENCLOSURE WITH OUTDOOR ENAMEL RUSTPROOF PAINT. COLOR SELECTED BY ARCHITECT.
2. DIMENSIONS SHALL BE VERIFIED IN FIELD AND COORDINATED WITH APPROVED SHOP DRAWING PRIOR TO FABRICATION.
3. THE SECURITY ENCLOSURE SHALL BE SUSPENDED AND ANCHORED TO WALL SEPARATELY FROM CONDENSING UNIT SUPPORTS. (2X2X¼" ANGLE BRACKETS)
4. HARDWARE SHALL BE 304 STAINLESS STEEL.
5. PROVIDE VANDAL RESISTANT, BRASS BODIED SHACKLE PAD LOCK WITH TWO KEYS.



OUTDOOR HVAC UNIT SECURITY ENCLOSURE 7/H102 — NO SCALE



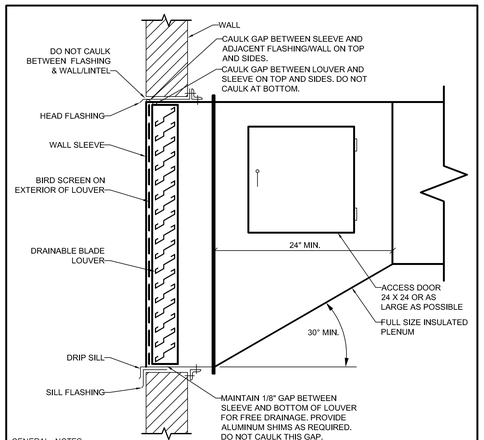
PIPE HANGER SUPPORT DETAIL 4/H102 — NO SCALE

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
ROOM NAME/NUMBER	ROOM AREA (SQ.FT.)	PEOPLE DENSITY (#P/1000SQ.FT)	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	NUMBER PEOPLE (AxB)÷1000=#P	OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (FxC)+(AxD)=CFM	ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM
GYM 4	2710	100	7.5	0.06	–	271	2135	0.8	2668

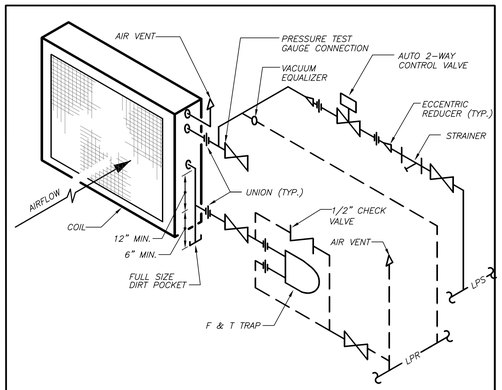
NOTES:
ART CLASSROOM–PEOPLE DENSITY 20PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 10CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.18CFM/SQ.FT.; EXHAUST AIR FLOW RATE 0.7CFM/SQ.FT.
SCIENCE CLASSROOM–PEOPLE DENSITY 25PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 10CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.18CFM/SQ.FT.; EXHAUST AIR FLOW RATE 1.0CFM/SQ.FT.
TYPICAL CLASSROOM–PEOPLE DENSITY 35PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 10CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.12CFM/SQ.FT.;
AUDITORIUM –PEOPLE DENSITY 150PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.06CFM/SQ.FT.;
MULTIUSE –PEOPLE DENSITY 100PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 7.5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.06CFM/SQ.FT.;
TYPICAL OFFICES–PEOPLE DENSITY 5PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.06CFM/SQ.FT.;
LIBRARY –PEOPLE DENSITY 10PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.12CFM/SQ.FT.;
CAFETERIA/LOUNGE–PEOPLE DENSITY 100PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 7.5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.18CFM/SQ.FT.;
CONFERENCE ROOM–PEOPLE DENSITY 50PEOPLE/1000SQ.FT.; PEOPLE OUTDOOR AIR FLOW RATE 5CFM/PERSON; AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.06CFM/SQ.FT.;
GYM – AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.30CFM/SQ.FT.;
CORRIDORS – AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE 0.06CFM/SQ.FT.;

ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR–CEILING SUPPLY AND RETURN WARM AIR 0.8; 1.0 SHALL BE PERMITTED IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 15°F ABOVE SPACE TEMPERATURE AND PROVIDED THAT THE 150 FOOT/MINUTE SUPPLY AIR REACHES WITHIN 4'–1/2 FEET OF FLOOR.
ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR–CEILING OR FLOOR SUPPLY COOL AIR 1.0.; CEILING OR FLOOR SUPPLY WARM AIR AND FLOOR RETURN 1.0.



GENERAL NOTES
1. DO NOT ATTACH DUCT TO TOP OF LOWER LOUVER BLADE AS TYPICAL. THIS CREATES SEALING PROBLEMS AT MULLIONS AND OTHER VERTICAL MEMBERS.
2. CONSTRUCT SLEEVE AND DUCTWORK TO SUPPORT WEIGHT OF SERVICE TECHNICIAN.
3. SEAL JOINT BETWEEN DUCT AND SLEEVE WATER TIGHT ALL AROUND.
4. PROVIDE FULL SIZE INSULATED PLENUM. INSULATE DUCT AND SLEEVE WHERE REQUIRED. PITCH PLENUM AND DUCTWORK TOWARD LOUVER AND SEAL WEATHER TIGHT.
5. LOUVER TO HAVE ANODIZED FINISH OR BAKED ON ENAMEL COLOR AS SELECTED BY ARCHITECT.

OUTSIDE AIR INTAKE/ EXHAUST LOUVER DETAIL 8/H102 — NO SCALE



STEAM HEATING COIL PIPING CONNECTION DETAIL 3/H102 — NO SCALE

SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No. (1)	NOMINAL FACE SIZE	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	REMARKS
A	RETURN	RR	HD–30–45	24X24	–	OPPOSED BLADE	PER ARCH.	REFER TO (2)(3)(4)
B	SUPPLY	SR	ECO–20	18x6	–	DIVERTER	↓	REFER TO (2)(3)(4)
X	EXISTING	–	–	–	–			

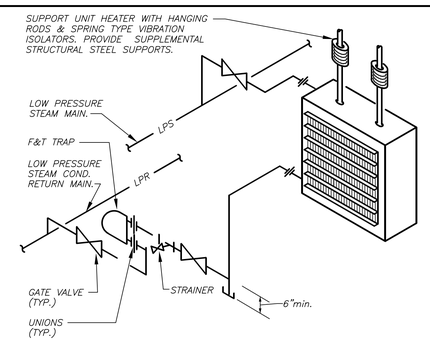
NOTES:
1. AS MANUFACTURED BY "ANEMOSTAT".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. AIR OUTLET TO BE OF STEEL CONSTRUCTION.
4. COORDINATE TRIM TYPE AND COLOR WITH ARCHITECT.

SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 700 fpm)						RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)							
50 TO 135	100 TO 245	246 TO 380	381 TO 550	551 TO 750	751 TO 860	50 TO 149	150 TO 249	250 TO 399	400 TO 599	600 TO 799	800 TO 1099	1100 TO 1199	1200 TO 2399
6"ø	8"ø	10"ø	12"ø	14"ø	15"ø	6x6	8X8	10X10	12X12	14X14	16X16	18X18	24X24

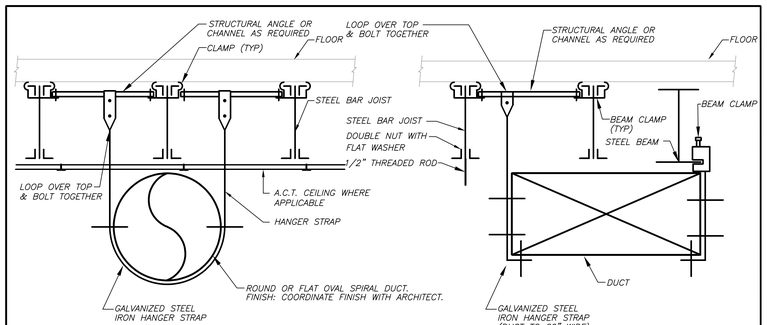
SCHEDULE OF UNIT HEATER

MARK	MODEL No. (1)	CAPACITY DATA		MOTOR WATTS	ELECTRIC SERVICE	PHYSICAL DATA		REMARKS
		BTU/HR	STEAM PRESURE			LxWxH	WEIGHT (LBS)	
UH-1	HS–24	17400	2PSIG	16	120/1/60	15X10X18	50	REFER TO (1)(2)(3)(4)

NOTES:
1. AS MANUFACTURED BY "STERLING".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
3. 350 CFM @1350 RPM.
4. QUANTITIES AS IDENTIFIED ON HVAC DRAWINGS.



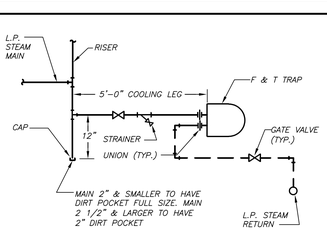
PIPING CONNECTIONS TO UNIT HEATER DETAIL 2/H102 — NO SCALE



HANGER STRAP TABLE	
DUCT SIZE	METAL GAUGE
UPTO 2 SQFT.	20 GA. GALV.
UPTO 4 SQFT.	16 GA. GALV.
UPTO 6 SQFT	12 GA. GALV.
UPTO 8 SQFT.	1/16" GALV.
OVER 8 SQFT.	SEE SMACNA GUIDELINE

HANGER SPACING SHALL BE THE LESSER OF 10 Ft. OR TWO TIMES LENGTH OF DUCT SECTION

TYPICAL DUCT SUPPORT DETAIL 1/H102 — NO SCALE



DRIP OF LOW PRESSURE STEAM MAIN/RISER DETAIL 9/H102 — NO SCALE

66.23.00.01.0.016.009
YONKERS PROJECT NUMBER
10845
PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

STATE OF NEW YORK PAUL J. GALLAGHER LICENSED PROFESSIONAL ENGINEER 076261

KEY PLAN — PROJECT NORTH

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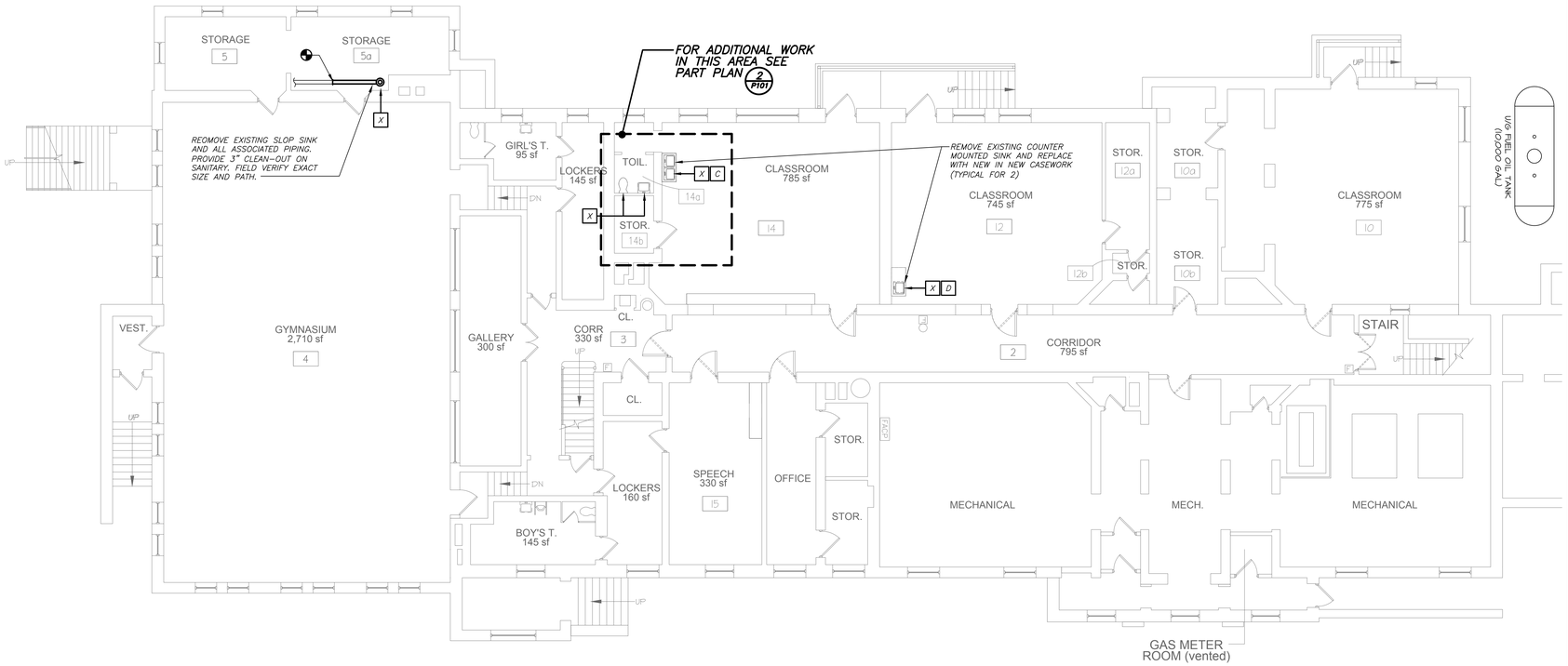
REV. NO.	DATE	DESCRIPTION
	01/23/19	SED FOR BUILDING PERMIT
	09/15/19	ISSUED FOR BID
	11/16/20	ISSUED FOR BID

SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

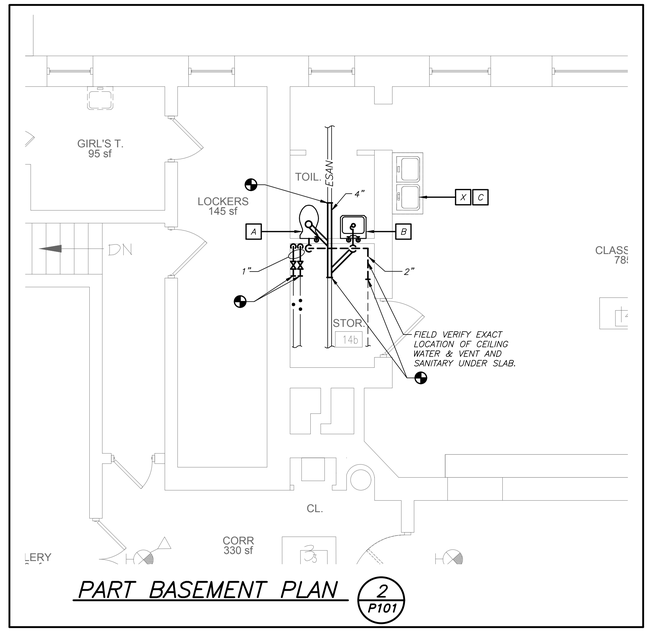
DRAWING TITLE
SCHEDULES AND DETAILS

SHEET NO.
H102.00

YONKERS PUBLIC SCHOOLS



PART BASEMENT PLAN 1/P101



PART BASEMENT PLAN 2/P101

LEGEND

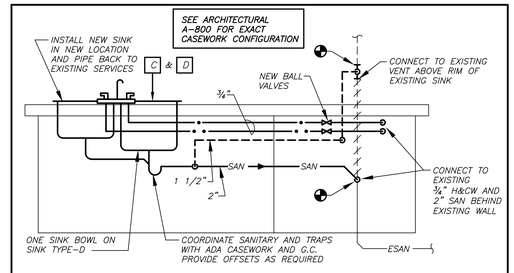
———	EXISTING PIPING, FIXTURES, ETC. TO REMAIN
———	NEW PIPING, FIXTURES, ETC.
—•—	COLD WATER PIPING
—••—	HOT WATER PIPING
—•••—	HOT WATER RETURN PIPING
- - - -	PLUMBING VENT PIPING
SAN	SANITARY PIPING (UNDERGROUND)
ESAN	EXISTING SANITARY PIPING (UNDERGROUND)
EST	EXISTING STORM (UNDERGROUND)
G	NATURAL GAS PIPING
EG	EXISTING GAS PIPING
	FLOW DIRECTION WITHIN PIPE
	CLEANOUT
	CLEANOUT DECK PLATE
	SHUT-OFF VALVE
	COMBINATION BALANCING & SHUT-OFF VALVE
	CHECK VALVE
	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
VTR	VENT THRU ROOF
FD	FLOOR DRAIN
	POINT OF CONNECTION
	PART PLAN, DETAIL, SECTION NUMBER DRAWING NUMBER SECTION IDENTIFICATION

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	BRANCH SIZE W	V	TI	C
A	FLOOR MOUNTED CHILDS WATER CLOSET	4"	2"	–	3/4"
B	COUNTER MOUNTED LAVATORY	2"	1-1/2"	1/2"	1/2"
C	CLASSROOM COUNTERTOP SINK WITH DRINKING FOUNTAIN	2"	1-1/2"	1/2"	1/2"
D	SINGLE BOWL STAINLESS STEEL CLASSROOM SINK	2"	1-1/2"	1/2"	1/2"
R	EXISTING FIXTURE TO REMAIN	–	–	–	–
X	EXISTING FIXTURE TO BE REMOVED	–	–	–	–

REMOVAL NOTES

1. REMOVE ALL PLUMBING FIXTURES, EQUIPMENT, SPECIALTIES, DRAINS, CONTROLS, HANGERS, BASES, SUPPORTS, PIPING, VALVES, TUBING AND PLUMBING ACCESSORIES THAT ARE NOT INCORPORATED IN THE NEW LAYOUT.
2. WHERE REMOVAL IS INDICATED OR IMPLIED OR NOT INCORPORATED IN THE NEW LAYOUT, THE ITEM ITSELF IS TO BE REMOVED COMPLETELY TOGETHER WITH ALL CONNECTING PIPING, SPECIALTIES, SUPPORTS, CONTROLS, ETC. CONNECTING PIPING IS TO BE REMOVED BACK TO MAINS WHERE THEY ARE TO BE CAPPED OR DISCONNECTED. THIS INCLUDES ALL GAS, SANITARY, VENT, WATER, COMPRESSED AIR, ACID WASTE, VACUUM, AND PUMP DISCHARGE PIPING. REFER TO DIVISION I OF SPECIFICATION FOR CUTTING AND PATCHING REQUIREMENTS.
3. WHERE EXISTING PIPING ENTERS INACCESSIBLE TRENCHES, TUNNELS, SHAFTS, WALLS AND CEILINGS INSIDE THE EXISTING BUILDING, IT SHALL BE CUT BACK AT LEAST 2" INTO SUCH INACCESSIBLE SPACES AND SHALL BE SUITABLY CAPPED AND SEALED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL EXERCISE NORMAL CAUTION TO PREVENT UNNECESSARY CUTTING AND DAMAGE TO THE EXISTING BUILDING. ANY EXCESSIVE DAMAGE AS DETERMINED BY THE OWNER SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR CAUSING THE DAMAGE.
5. ALL DEMOLISHED EQUIPMENT ETC. EXCEPT THOSE ITEMS SPECIFICALLY REQUESTED BY THE OWNER SHALL BECOME THE CONTRACTORS PROPERTY, SHALL BE REMOVED FROM THE PREMISES, AND DISPOSED OF LEGALLY.



CLASSROOM SINK PIPING DETAIL 1/P101 NO SCALE

66.23.00.01.0.016.009

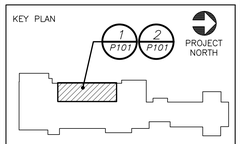
YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

YONKERS PUBLIC SCHOOLS

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

STATE OF NEW YORK · PAUL J. GALLAGHER · LICENSED PROFESSIONAL ENGINEER · 072961

KEY PLAN


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39 MARBLE AVE. PLEASANTVILLE, NY 10570
PHONE: 914.328.6060 FAX: 914.328.5504 General@BGA-Eng.com

REV. NO.	DATE	DESCRIPTION
	01/23/19	SED FOR BUILDING PERMIT
	09/15/19	ISSUED FOR BID
	11/16/20	ISSUED FOR BID

SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

DRAWING TITLE

LEGEND, PART BASEMENT PLANS SCHEDULE AND NOTES

SHEET NO.

P101.00

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.

2. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.

3. WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER.

4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.

5. ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. WHERE SHOWN WITH DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED, WITH LETTER (ER) IS EXISTING RELOCATED, WITH LETTER (RN) IS EXISTING TO BE REPLACED WITH NEW AND WITH LETTER (RR) IS EXISTING TO BE REMOVED AND RELOCATED.

6. CIRCUIT NUMBERS TO EXISTING PANELS ARE SHOWN FOR INTENT ONLY. ACTUAL CIRCUIT NUMBERS TO BE USED SHALL BE AS PER FIELD CONDITIONS BY UTILIZING SPARE CIRCUITS, BREAKERS OR SPACES IN EXISTING PANEL, SIZE AS INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL BALANCE LOAD OF CIRCUITS EVENLY ON ALL PHASES.

7. FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM $^{3}/_{4}$" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.

8. PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT.

9. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.

10. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND OTHER CEILING INSTALLED ITEMS.

11. THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'-0".

12. EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.

13. WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.,) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS.

14. CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.

15. PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.

16. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE.

    THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.

17. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.

18. THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE CONFIGURATION TYPE FOR ALL SPECIAL RECEPTACLES FOR COPIERS, DATA PROCESSING EQUIPMENT. ETC. WITH OWNER AND ENGINEER PRIOR TO ORDERING.

19. COORDINATE LOCATION OF ALL MECHANICAL EQUIPMENT WITH HVAC CONTRACTOR IN FIELD. FUSES FOR ALL MOTOR LOADS SHALL BE DUAL ELEMENT TIME DELAY TYPE.

20. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.

21. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.

22. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.

23. ALL LIGHTING FIXTURES UTILIZING ELECTRONIC BALLASTS SHALL BE PROVIDED WITH A DEDICATED NEUTRAL OR AN OVERSIZED NEUTRAL WHEN SHARED.

24. ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR.

25. ALL EMERGENCY LIGHT FIXTURES DESIGNATED 'EM' SHALL BE SWITCHED PROVIDE UNSWITCHED HOT LEG FOR BATTERY CHARGER REGARDLESS OF FUNCTION. ALL EMERGENCY FIXTURES SHALL REVERT TO BATTERY OPERATION UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATE REGARDLESS OF LIGHT SWITCH POSITION.

26. PRIOR TO ANY CHASING, CHOPPING, PATCHING OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE ALL WORK TO ENSURE THAT IT WILL BE IN HARMONY AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING OWNER PRIOR TO PROCEEDING.

27. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP-25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).

28. ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK.

29. PREPARE 'AS-BUILT' DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.

30. LIGHT FIXTURES SHALL BE CONSTRUCTED TO SUIT PARTICULAR TYPE OF CEILING AND WALL CONSTRUCTION AND SHALL BE PROVIDED WITH APPROPRIATE TRIMS, MOUNTING FRAMES AND ADAPTERS AS REQUIRED.

31. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.

GENERAL REMOVAL NOTES

1. BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK.

2. BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF THE SPACE BEFORE SUBMITTAL OF BID.

3. ALL ELECTRICAL EQUIPMENT IN THE AREA OF WORK IS EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   A. LIGHTING FIXTURES AND SWITCHES.
   B. CIRCUIT BREAKERS AND DISCONNECT SWITCHES.
   C. RECEPTACLES, OUTLETS AND DEVICES.

4. ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF POWER AND DISCONNECTED.

5. ALL POWER CONDUCTORS, CONTROL WIRING AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SUCH AS FANS, AIR CONDITIONING UNITS, PUMPS, ETC. DESIGNATED FOR REMOVAL ON THE HVAC AND PLUMBING REMOVAL DRAWINGS SHALL BE REMOVED CLEAR BACK TO THE SOURCE OF POWER AND DISCONNECTED. ALL MOTOR STARTERS, DISCONNECT SWITCHES, CONTROL DEVICES, ETC. SHALL BE REMOVED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

6. CIRCUIT BREAKERS AND/OR SWITCHES IN PANELBOARD(S) OR DISTRIBUTION BOARD(S) MADE SPARE DUE TO REMOVAL SHALL BE DESIGNATED AS SUCH ON THE PANEL SCHEDULE.

7. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO TRACE AND RELOCATE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING WHICH PASSES THROUGH THE REMOVAL AREA THAT SERVE EXISTING OCCUPIED SPACES TO REMAIN. COORDINATE WITH BUILDING MANAGER PRIOR TO ANY SHUTDOWNS OR DISRUPTIONS THAT MAY BE REQUIRED TO ACCOMPLISH THIS WORK.

8. DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE REUSED. PRIOR TO DISPOSAL, CONTACT BUILDING MANAGER TO DETERMINE IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK.

9. EXISTING CIRCUIT BREAKERS IN PANEL(S) ARE TO BE RE-USED. ELECTRICAL CONTRACTOR TO DISCONNECT PANEL AND CIRCUIT BREAKERS WITH GREAT CARE TO ENSURE AGAINST DAMAGE. THIS CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.

10. EXTEND EXISTING CIRCUITRY TO THOSE DEVICES THAT ARE TO BE RELOCATED. MATCH EXISTING TYPE AND SIZE. RELOCATION OF EXISTING EQUIPMENT SHALL BE PERFORMED ONLY UPON OWNERS ACCEPTANCE OF EXISTING EQUIPMENT.

DISPOSAL OF MERCURY CONTAINING LAMPS

1. ALL FLUORESCENT AND HID LAMPS WITHIN REMOVED LIGHT FIXTURES ARE CONSIDERED MERCURY CONTAINING AND SHALL BE TREATED AS HAZARDOUS MATERIAL.

2. FLUORESCENT AND HID LAMPS SHALL BE REMOVED FROM DEMOLISHED LIGHT FIXTURES AND DISPOSED OF AS PER NEW YORK STATE DEC REGULATIONS AND METHODS

3. LAMPS MUST BE BAGGED IN NON-LEACHING PLASTIC BAGS AND SEALED TO PREVENT LEAKING.

4. EACH LAMP OR BAGGED CONTAINER IN WHICH THESE LAMPS ARE CONTAINED MUST BE LABELED OR MARKED CLEARLY WITH ONE OF THE FOLLOWING PHRASES; UNIVERSAL WASTE LAMPS, OR WASTE LAMPS, OR USED LAMPS

5. THESE MARKED BAGS MUST BE DELIVERED TO THE PROPER NEW YORK STATE D.E.C. AUTHORIZED LANDFILL OR RECYCLE CENTERS.

ABBREVIATIONS

ABBV.	DESCRIPTION
A	AMP/AMPERE
AC	AIR CONDITIONING UNIT
CU	CONDENSING UNIT
CP	CONDENSATE PUMP
(E)	EXISTING TO REMAIN
EM	EMERGENCY
(ER)	EXISTING RELOCATED
EXIST.	EXISTING
F.A.C.P.	FIRE ALARM CONTROL PANEL
F.B.O	FURNISHED BY OTHERS
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NTS	NOT TO SCALE
PNL	PANEL
(R)	REMOVE EXISTING
(RN)	REPLACE EXISTING W/NEW
(RR)	REMOVED, SALVAGED AND RELOCATED
UV	UNIT VENTILATOR
W	WATT
WP	WEATHERPROOF

LEGEND

A/G	2'x4' LED CEILING MOUNTED LIGHT FIXTURE. UPPER CASE LETTER DENOTES TYPE, LOWER CASE LETTER DENOTES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
B/WL	2'x4' CEILING MOUNTED LED LIGHT FIXTURE FOR EMERGENCY OPERATION. 'EM' INDICATES SWITCHED EMERGENCY FIXTURE; 'EM/NL'-UNSWITCHED EMERGENCY/NIGHT FIXTURE (TYP.).
B/G	2'x2' LED CEILING MOUNTED FIXTURE. CAPITAL LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
	2'x2' CEILING MOUNTED LED LIGHT FIXTURE FOR EMERGENCY OPERATION WITH INTEGRAL BATTERY BACK-UP, TEST BUTTON AND L.E.D.
	WALL MOUNTED LED LIGHT FIXTURE FOR EMERGENCY OPERATION WITH INTEGRAL BATTERY BACK-UP, TEST BUTTON AND L.E.D.
	CEILING/WALL MOUNTED EXIT LIGHT WITH OUTLET BOX, DIRECTIONAL ARROWS SHADED PORTION INDICATES ILLUMINATED FACE. SCHEDULE DENOTES TYPE.
S_{G}^{3K}	FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH CONTROLLING OUTLET "G". "K" WHERE USED INDICATES KEY SWITCH. '3' INDICATES 3-WAY SWITCH; '4' INDICATES 4-WAY SWITCH. MODEL # WATTSTOPPER LVS-1K-G
OS/H	CEILING MOUNTED LOW VOLTAGE ULTRASONIC SENSOR, SIMILAR TO WATTSTOPPER MODEL# WT-2250, WITH LONG CORRIDOR COVERAGE PATTERN, INCLUDE POWER PACKS. MANUAL ON, AUTO OFF, WORK WITH LOCAL KEY SWITCHES.
PS	TORK 2001 OUTDOOR PHOTOCELL
RC3	NETWORK DIGITAL ROOM CONTROLLER FOR LIGHTING CONTROL. SIMILAR TO WATTSTOPPER MODEL LMRC-213. HOT WIRE TO LOAD, CAT 5 WIRE CONNECTIONS TO CONTROL DEVICES. RC'#' DENOTES LMRC-21'#' WITH '#' OF ZONES.
OS	NETWORK DIGITAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, SIMILAR TO WATTSTOPPER MODEL LMDC-100. WORKS WITH DIGITAL ROOM CONTROLLER.
PC	NETWORK DIGITAL CEILING MOUNTED SINGLE ZONE PHOTO SENSOR. SINGLE ZONE PHOTO SENSOR. SIMILAR TO WATT STOPPER MODEL LMLS-400. WORKS WITH ROOM CONTROLLER.
3 WS2	NETWORK DIGITAL FLUSH MOUNTED PRESET WALL STATIONS, SIMILAR TO WATTSTOPPER MODEL LMSW-102, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING. 'WS'#' DENOTES LMSW-10'#' WITH '#' OF BUTTONS. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH.
3	HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12-3/4"C U.O.N.
2,(4,6)	HOMERUN TO DESIGNATED PANEL, NUMBERS IN PARENTHESIS INDICATE MULTIPLE CIRCUIT, I.E. 3-HOTS AND 1-GROUND U.O.N.
	125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED DUPLEX RECEPTACLE HUBBELL #5362.
	20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GF5362.
	FLUSH WALL MOUNTED DATA OUTLET CONSISTING OF (2) PORT STAINLESS STEEL COVER PLATE WITH LABEL WINDOW AND 1 1/4" CONDUIT WITH CAT 6 CABLES TO TERMINATE INTO PATCH PANEL AT NEAREST IDF/MDF CLOSET.
CI	SURFACE MOUNTED CALL IN BUTTON.
VA	VOICE ATTENUATOR
H S	INTERIOR WALL MOUNTED P.A SPEAKER
H P	EXTERIOR WALL MOUNTED P.A HORN. TELECORE A-151
AP	ADMINISTRATIVE PHONE.
	SURFACE MOUNTED EXISTING ELECTRICAL PANELBOARD.
240/3 60 AF WP	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240 INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES AMPERE RATING, NF INDICATES NON-FUSED(OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. 'WP' WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).
S_T	THERMAL SWITCH, CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE 20AMP, 120V U.O.N. WHERE INDICATED WITH 'WP' PROVIDE WATERTIGHT ENCLOSURE TYPE 3.
S_{2T}	208 VOLT, SINGLE PHASE 2 POLE, THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH. SIMILAR TO EATON #AH4361 + #AH27940G NEMA 1 ENCLOSURE.
(5)	MOTOR (F.B.O. WIRED BY ELEC.) - NUMBER INDICATES HORSEPOWER. REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.
FACP	FIRE ALARM CONTROL PANEL.
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION
B	WALL MOUNTED FIRE ALARM BELL DEVICE.
S_D	DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR WITH (REMOTE) CONTROL RELAY MODULE FOR FAN SHUT DOWN. RELAY MODULE TO BE MOUNTED ADJACENT TO MECHANICAL EQUIPMENT. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
	SURFACE MOUNTED WIREMOLD V700 FOR EITHER RECEPTACLE OR COMMUNICATION WIRING. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.
	SURFACE MOUNTED WIREMOLD SERIES 4000 CONTAINING RECEPTACLE CIRCUITS AND COMMUNICATION WIRING. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.
(1)	TAG SYMBOL. NUMERAL DENOTES REFERENCE TO A WORK NOTE.
	MECHANICAL EQUIPMENT IDENTIFICATION: EQUIPMENT ABBREVIATION (FE, SF, HV, ETC. SEE ABBREVIATIONS ON THIS DWG.) / EQUIPMENT NUMBER
	DETAIL/PART PLAN NUMBER IDENTIFICATION: DETAIL/PART PLAN NUMBER / DRAWING NUMBER

YONKERS PUBLIC SCHOOLS

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER

10845

PROJECT NAME

YONKERS PUBLIC SCHOOLS

PS 16 - YONKERS

759 NORTH BROADWAY

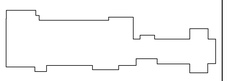
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

STATE OF NEW YORK · PAUL J. GALLAGHER · LICENSED PROFESSIONAL ENGINEER · 072961

KEY PLAN

PROJECT NORTH



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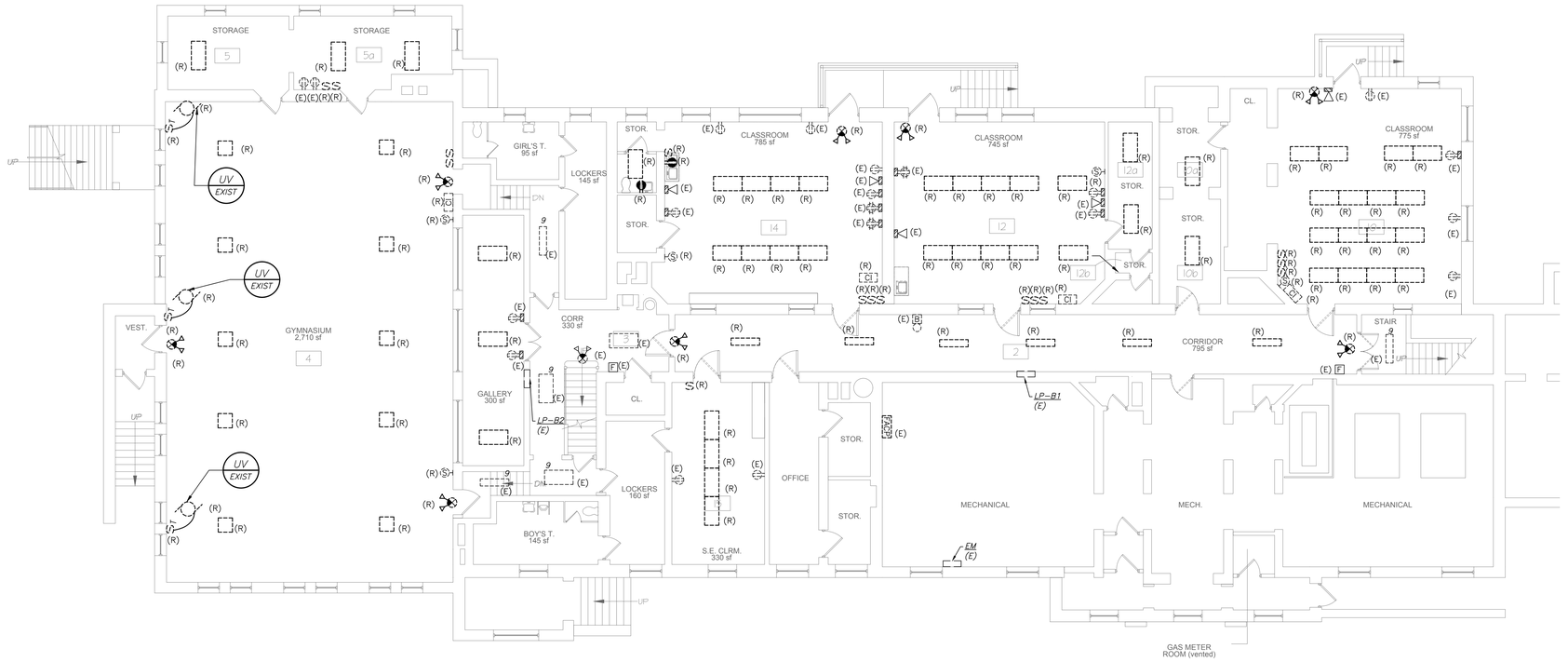
LEGENDS, ABBREVIATIONS AND GENERAL NOTES

SHEET NO.

E001.00



BASEMENT FLOOR PLAN (REMOVALS)

1 / E101.00

0 4' 8' 16'
1/8 inch=1 foot

GENERAL NOTES:

1. REMOVE ALL ELECTRICAL DEVICES AS SHOWN IN ITS ENTIRITY BACK TO SOURCE . UNLESS THERE ARE EXISTING DEVICES REMAINING ON CIRCUIT. THEN EC SHALL MAINTAIN CONTINUITY.
2. REMOVE EXISTING PUBLIC ADDRESS SYSTEM IN ITS ENTIRETY INCLUDING WIRING AND CONDUITS BACK TO SOURCE.
3. ALL CUTTING AND PATCHING WORK DONE BY THE REMOVAL OF EXISTING PA DEVICES SHALL BE DONE BY ELECTRICAL CONTRACTOR.

YONKERS PUBLIC SCHOOLS

66.23.00.01.0.016.009

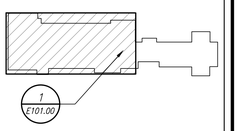
YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

STATE OF NEW YORK · PAUL J. GALLAGHER · LICENSED PROFESSIONAL ENGINEER · 076261

KEY PLAN



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BASEMENT AND FIRST FLOOR ELECTRICAL REMOVALS PLAN

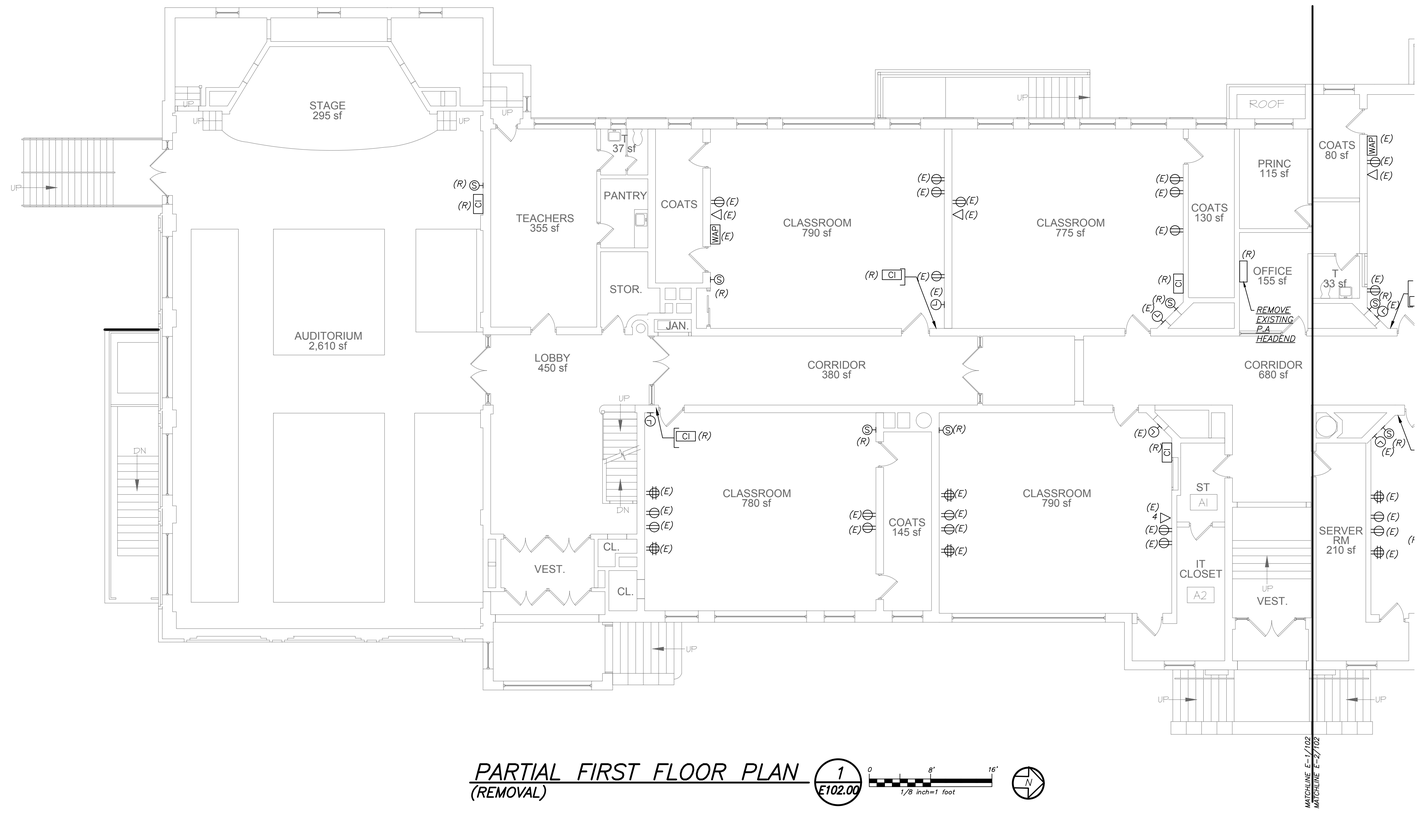
SHEET NO.

E101.00

REMOVAL NOTES:

1. REMOVE EXISTING PUBLIC ADDRESS SYSTEM IN ITS ENTIRETY INCLUDING WIRING AND CONDUIT BACK TO ITS SOURCE.

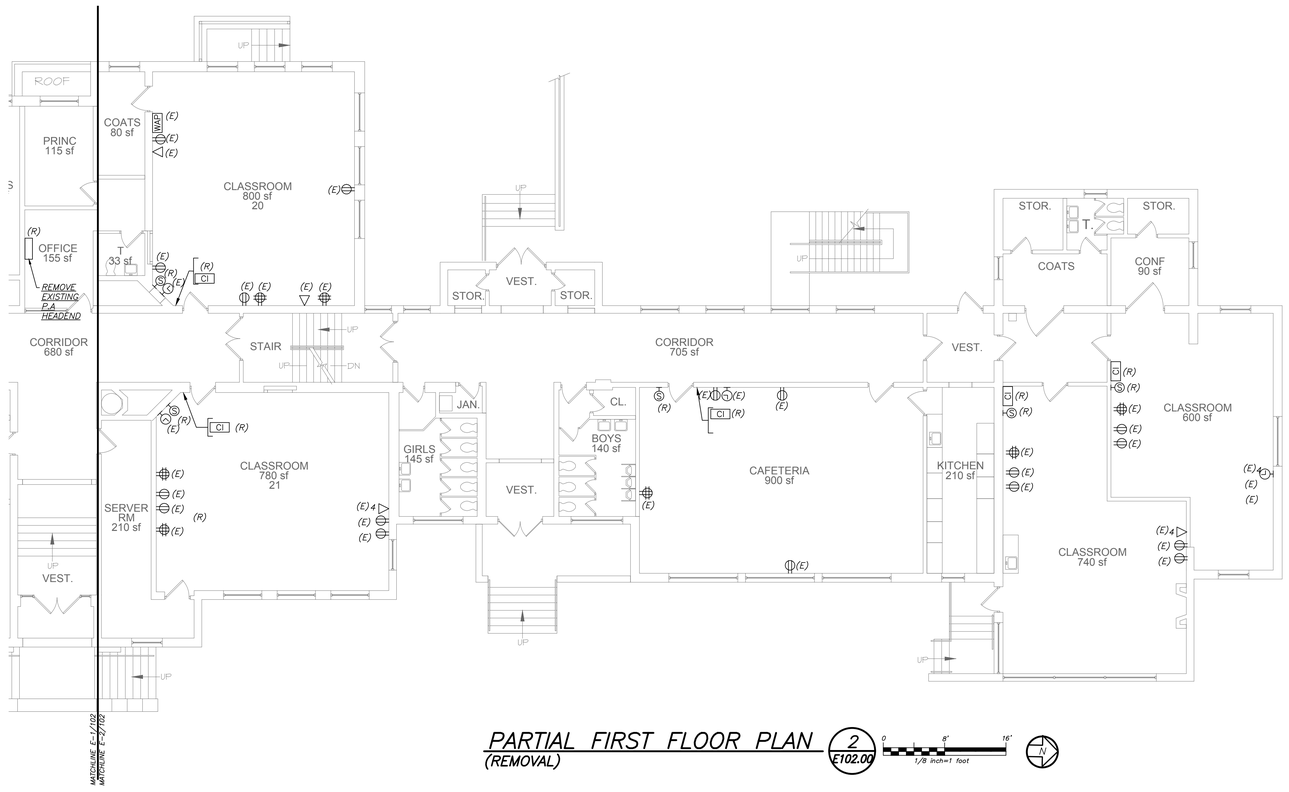
2. ALL CUTTING AND PATCHING WORK DONE BY THE REMOVAL OF EXISTING PA DEVICES SHALL BE DONE BY ELECTRICAL CONTRACTOR.



PARTIAL FIRST FLOOR PLAN (REMOVAL) 1 E102.00

0 8' 16'

1/8 inch=1 foot



PARTIAL FIRST FLOOR PLAN (REMOVAL) 2 E102.00

0 8' 16'

1/8 inch=1 foot

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER

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KEY PLAN

PROJECT NORTH

1 E102.00

2 E102.00

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DRAWING TITLE

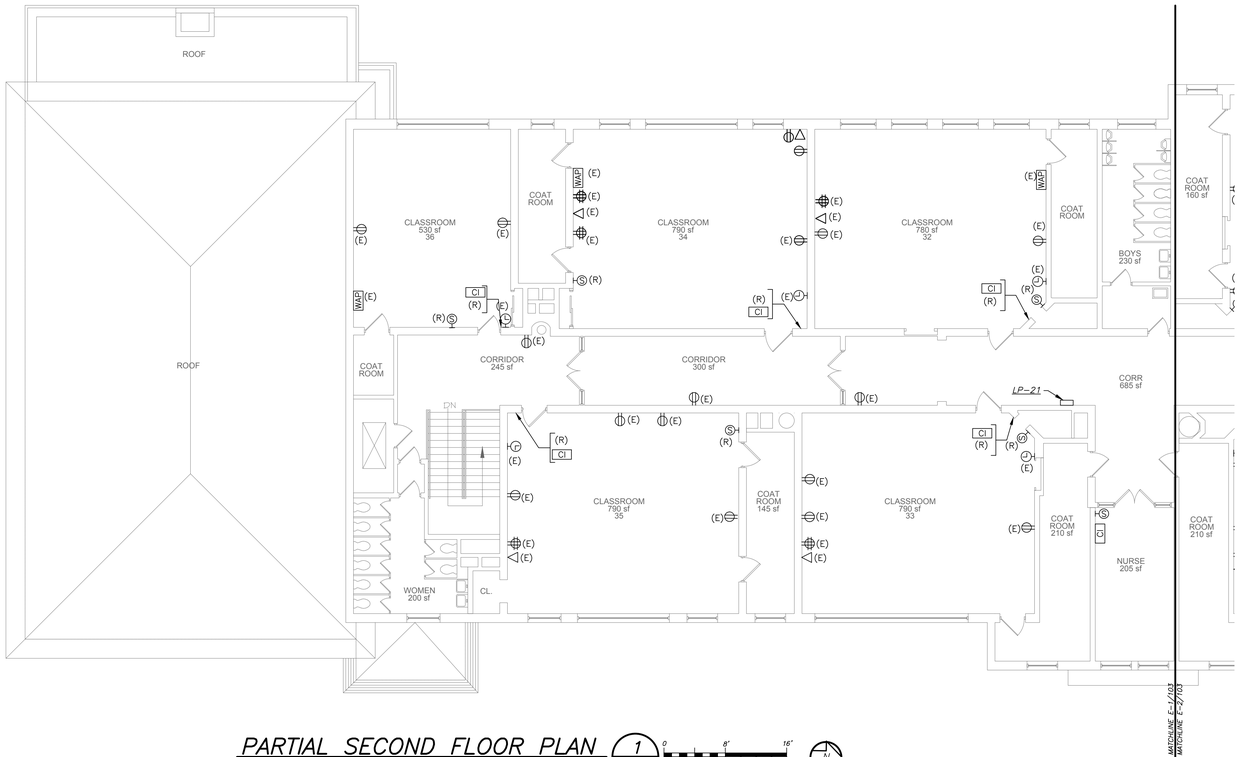
FIRST FLOOR REMOVAL PLAN

SHEET NO.

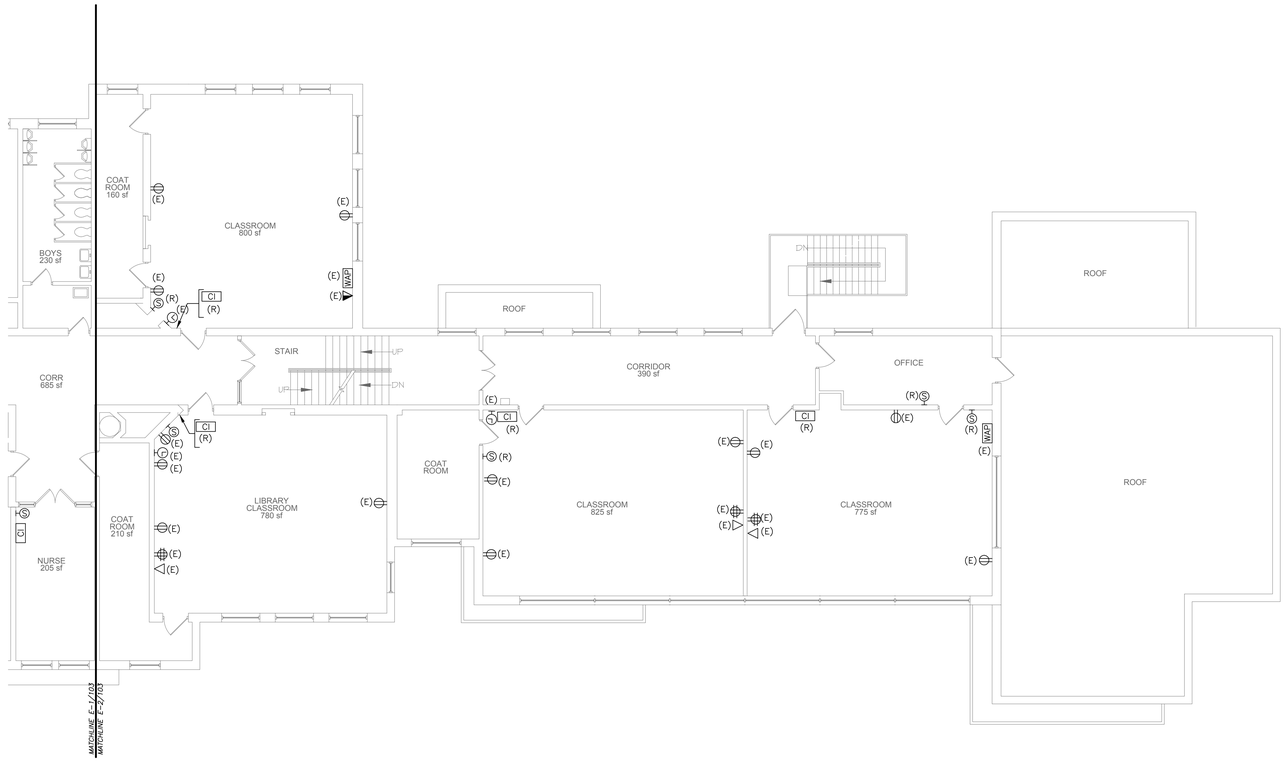
E102.00

REMOVAL NOTES:

1. REMOVE EXISTING PUBLIC ADDRESS SYSTEM IN ITS ENTIRETY INCLUDING WIRING AND CONDUIT BACK TO ITS SOURCE.



PARTIAL SECOND FLOOR PLAN (REMOVAL) — 1 / E103.00 — 0, 8', 16' — 1/8 inch=1 foot



PARTIAL SECOND FLOOR PLAN (REMOVAL) — 2 / E103.00 — 0, 8', 16' — 1/8 inch=1 foot

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KEY PLAN
PROJECT NORTH
1 E103.00
2 E103.00

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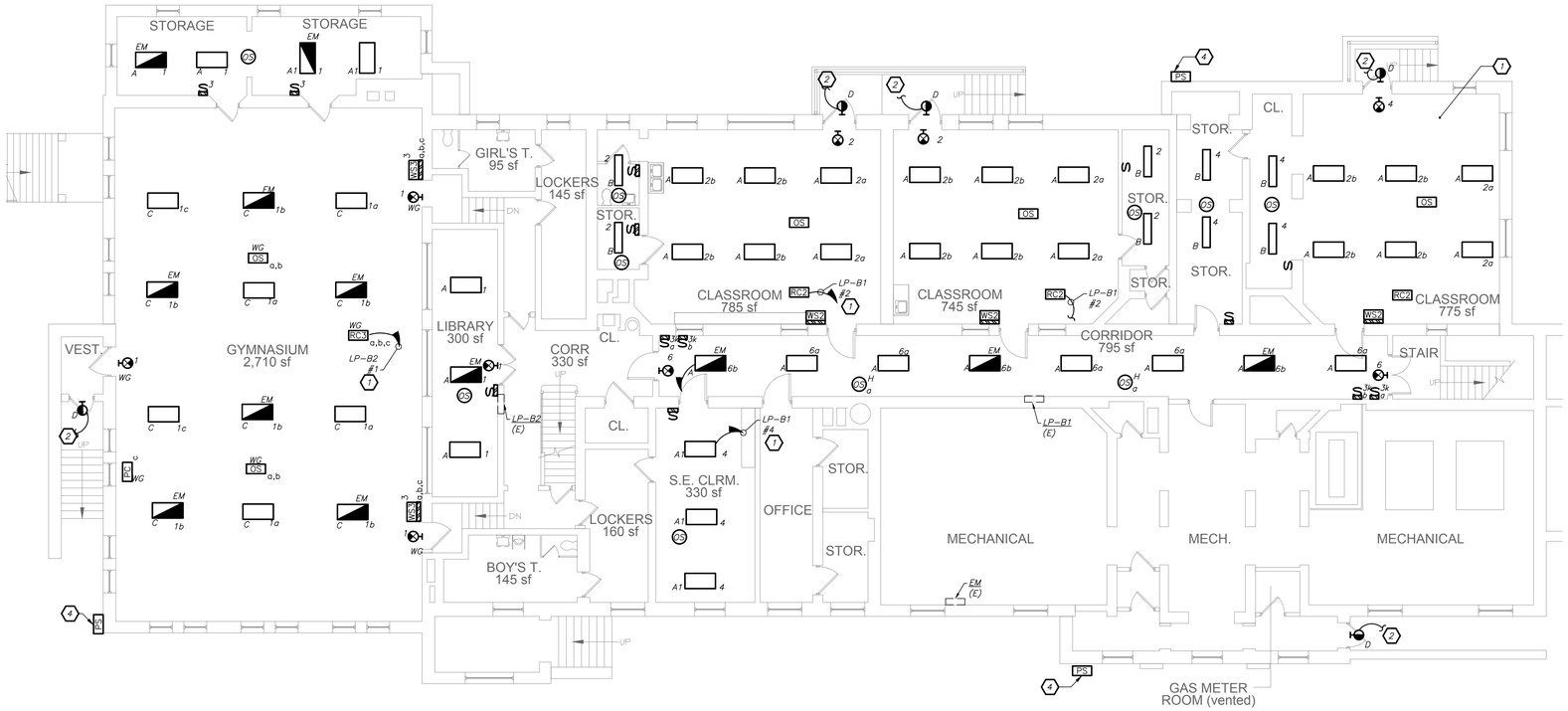
SECOND FLOOR REMOVAL PLAN

SHEET NO.
E103.00

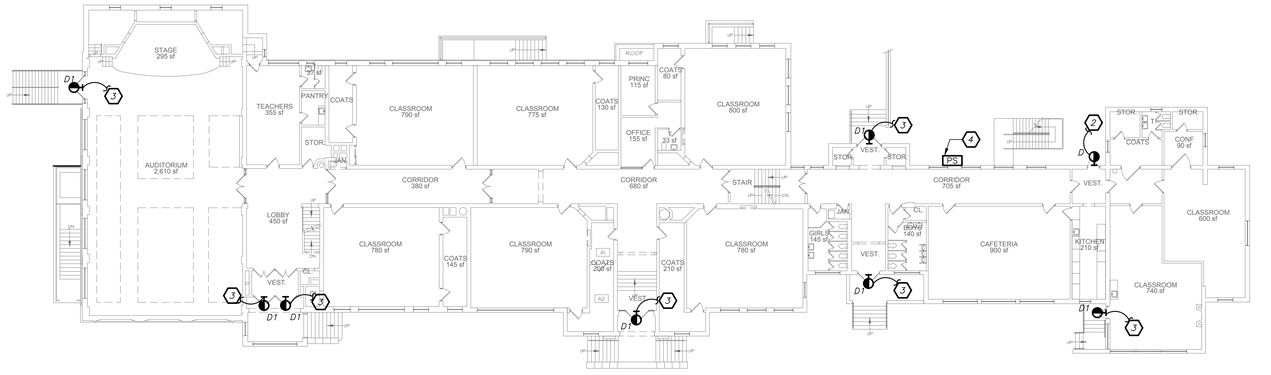


BASEMENT FLOOR PLAN (NEW WORK)

1 E201.00

0 8' 16'

1/8 inch=1 foot



FIRST FLOOR PLAN (NEW WORK)

2 E201.00

0 16' 32'

1/16 inch=1 foot

GENERAL NOTES:

1. ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL NEW LIGHT FIXTURES WITH EXISTING PLUMBING AND MECHANICAL WORK.

WORK NOTES:

1. CIRCUIT NUMBER FOR CONTRACTOR GUIDANCE ONLY, WIRE FIXTURES TO CIRCUIT MADE SPARE BY DEMOLITION WORK.
2. WIRE EXTERIOR EMERGENCY FIXTURE TO NEAREST LIGHTING CIRCUIT INSIDE THE BUILDING AHEAD OF ANY SWITCHING. LIGHT FIXTURE SHALL BE CONTROLLED VIA PHOTOCELL MOUNTED ON THE SAME SIDE OF THE BUILDING. ALL TIME CLOCKS SHALL BE ABANDONED/BYPASSED.
3. WIRE EXTERIOR EMERGENCY FIXTURE TO NEAREST LIGHTING CIRCUIT INSIDE THE BUILDING AHEAD OF ANY SWITCHING. LIGHT FIXTURE SHALL BE CONTROLLED VIA INTEGRAL PHOTOCELL. ALL TIME CLOCKS SHALL BE ABANDONED/BYPASSED.
4. PROVIDE TORK 2001 SERIES PHOTOCELL WHICH IS TO BE MOUNTED IN BUILDING WALL TO OPERATE EXTERIOR EMERGENCY LIGHTING.

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

STATE OF NEW YORK
PAUL J. GALLAGHER
LICENSED PROFESSIONAL ENGINEER
073261

KEY PLAN
PROJECT NORTH
1 E201.00
2 E201.00

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REV. NO.	DATE	DESCRIPTION
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SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

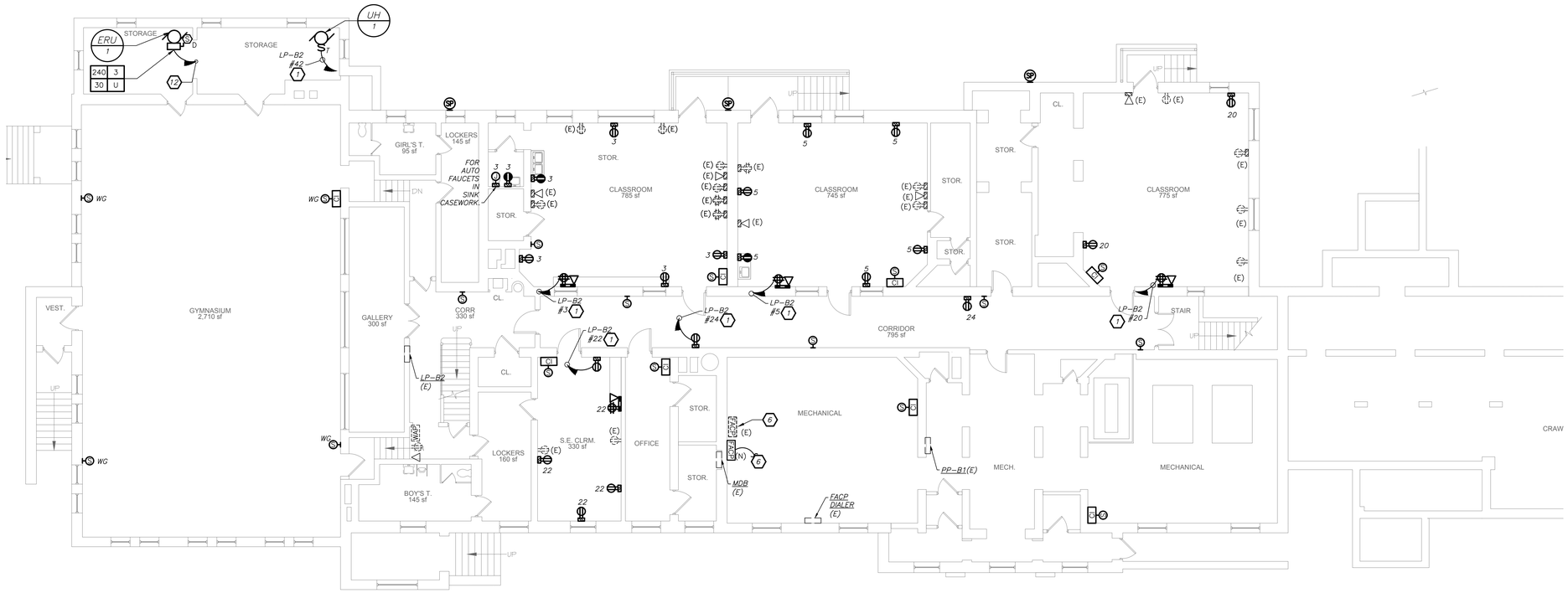
DRAWING TITLE

BASEMENT AND FIRST FLOOR ELECTRICAL LIGHTING PLAN

SHEET NO.

E201.00

YONKERS PUBLIC SCHOOLS



BASEMENT FLOOR PLAN
(NEW WORK)

1 / E301

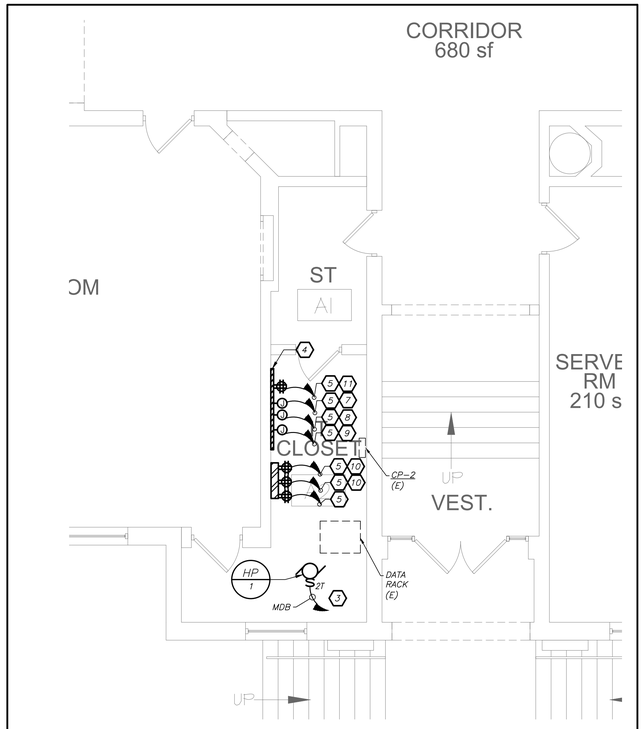
0 8' 16'
1/8 inch=1 foot

WORK NOTES:

1. PROVIDE 2#12+1#12G IN 3/4"C TO THE PANEL AND CIRCUIT AS INDICATED. PROVIDE A 1P–20 BREAKER AT THE PANEL.
2. PROVIDE 2#10+1#10G IN 3/4"C TO THE MDB SPACE AS INDICATED. PROVIDE 2P–30 AMP BREAKER AT PANEL AS INDICATED.
3. PROVIDE 2#12+1#12G IN 3/4"C TO MDB SPACE AS INDICATED. PROVIDE 2P–20 AMP BREAKER AT PANEL.
4. PROVIDE NEW 8'X4'X3/4" PLYWOOD PAINTED BLACK WITH FIRE RETARDANT PAINT. COORDINATE THE EXACT LOCATION WITH OWNER, ARCHITECT AND ITG BEFORE THE START OF ANY WORK.
5. PROVIDE 2#12+1#12G IN 3/4" CONDUIT TO SPARE CIRCUIT IN PANEL CP–2 FOR ITG EQUIPMENT. REFER TO SE DRAWING SERIES FOR MORE DETAILS.
6. FIRE ALARM CONTROL PANEL SIEMENS CERBERUS PRO FC0–924 SYSTEM. SHALL INTERFACE WITH EXISTING FACP TO RECEIVE ALARM AND TROUBLE. EXISTING DIALER SHALL BE CONNECTED TO NEW FACP.
7. PROVIDE JUNCTION BOX FOR LOCK P/S. REFER TO ITG LARSON DRAWING SE–300.
8. PROVIDE JUNCTION BOX FOR APS P/S. REFER TO ITG LARSON DRAWING SE–300.
9. PROVIDE QUAD RECEPTACLE ON PLYWOOD BOARD, REFER TO ITG LARSON DRAWING SE–300 DETAILS FOR ADDITIONAL INFORMATION.
10. PROVIDE FOR CCTV DATA RACK. COORDINATE WITH SECURITY VENDOR AND OWNER. REFER TO ITG LARSON DRAWING SE–300.
11. THIS CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE WIRING INTERCONNECTION FOR IT AND SECURITY FROM ALL DEVICES TO PATCH PANEL INCLUDING JUMPER CABLE INTERCONNECTION TO SWITCHES. THE SCOPE OF WORK INCLUDES AND NOT LIMITED TO DEVICE INSTALLATION, SUPPORT BRACKETS, JUNCTION BOXES, WIRING SUPPORTS, LABELING, TAGGING, ETC. REFER TO ITG LARSON DRAWING SERIES "SE" FOR ALL REQUIREMENTS INCLUDED IN THIS CONTRACTORS SCOPE.
12. PROVIDE 3#8+1#10G IN 1" CONDUIT TO THE MDB SPACE AS INDICATED. PROVIDE A 3P–30AMP BREAKER AT THE PANEL.

NEW PUBLIC ADDRESS SYSTEM:

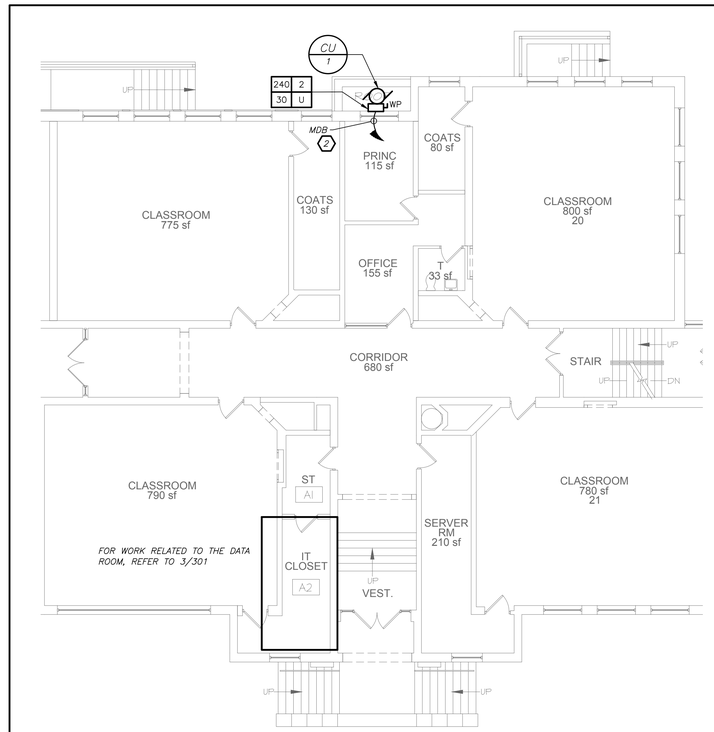
1. PROVIDE SURFACE MOUNTED SPEAKERS AND CALL–IN BUTTONS IN THE CLASSROOMS AND CORRIDORS AS SHOWN.
2. ALL CALL IN BUTTONS SHALL BE MOUNTED 48" AFF TO THE BOTTOM OF ENCLOSURE. WHERE THERE IS WOOD TRIM, DEVICES SHALL BE MOUNTED 1" ABOVE WOOD TRIM. CALL IN DEVICES SHALL NOT BE MOUNTED MORE THEN 51" AFF TO THE BOTTOM OF ENCLOSURE. IF THERE ARE ANY CONFLICTS, CONTRACTOR SHALL COORDINATE WITH ARCHITECT/ENGINEER BEFORE THE START OF ANY WORK.
3. ALL SPEAKERS SHALL BE MOUNTED 8'–0" AFF TO THE BOTTOM OF ENCLOSURE FOR CLASSROOMS AND BASEMENT CORRIDORS. ALL CORRIDORS ON THE FIRST AND SECOND FLOOR SPEAKERS SHALL BE MOUNTED AT 9'–0" AFF UNLESS DIRECTED OTHERWISE BY ARCHITECT/OWNER. FINAL COORDINATION SHALL BE DONE WITH ARCHITECT/OWNER BEFORE THE START OF ANY WORK.
4. ALL LOW VOLTAGE PUBLIC ADDRESS WIRING SHALL BE ROUTED IN WIREMOLD SIMILAR TO 700 SERIES.
5. ALL CUTTING AND PATCHING FOR SECURITY AND P.A WORK SHALL BE DONE BY ELECTRICAL CONTRACTOR.



PARTIAL FIRST FLOOR PLAN
(NEW WORK)

3 / E301.00

0 4' 8'
1/4 inch=1 foot



PARTIAL FIRST FLOOR PLAN
(NEW WORK)

2 / E301.00

0 4' 8'
1/4 inch=1 foot

66.23.00.01.0.016.009

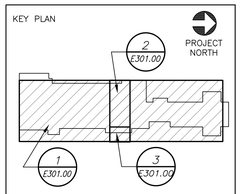
YONKERS PROJECT NUMBER
10845

PROJECT NAME
YONKERS PUBLIC SCHOOLS
PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

STATE OF NEW YORK · PAUL J. GALLAGHER · LICENSED PROFESSIONAL ENGINEER · 076261

KEY PLAN



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SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

DRAWING TITLE

BASEMENT AND PARTIAL FIRST FLOOR ELECTRICAL POWER PLAN

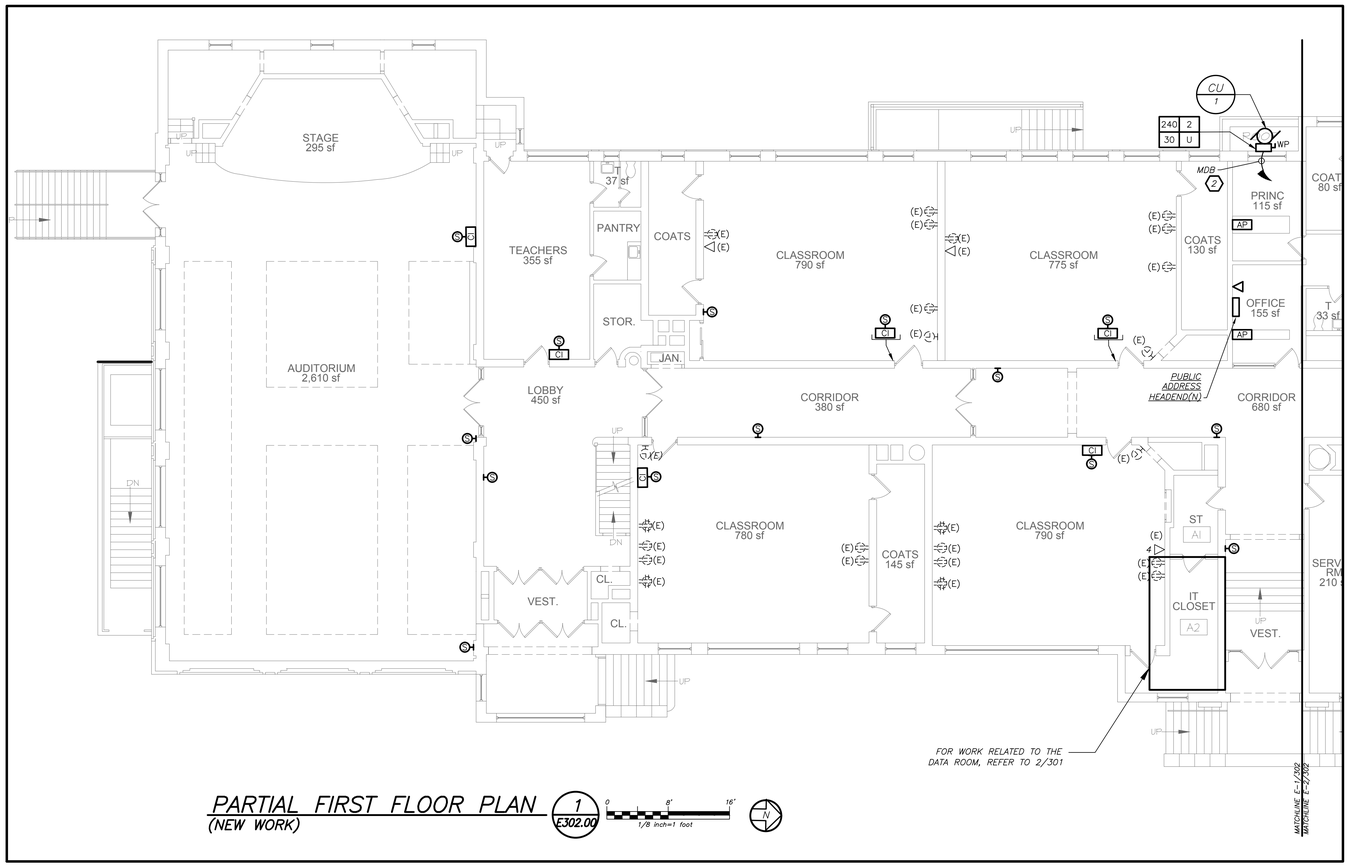
SHEET NO.

E301.00

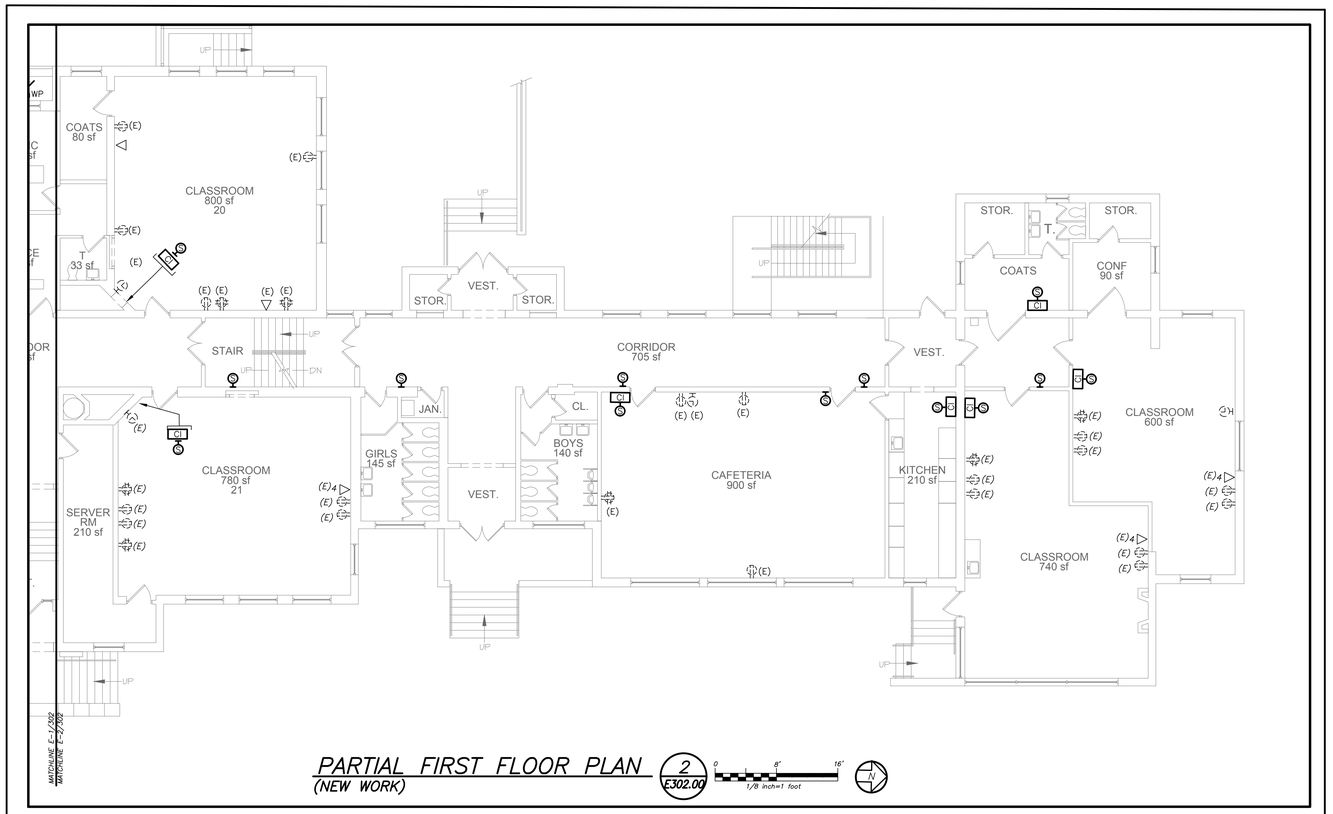
YONKERS PUBLIC SCHOOLS

NEW PUBLIC ADDRESS SYSTEM:

1. *PROVIDE SURFACE MOUNTED SPEAKERS AND CALL-IN BUTTONS IN THE CLASSROOMS AND CORRIDORS AS SHOWN.*
2. *ALL CALL IN BUTTONS SHALL BE MOUNTED 48" AFF TO THE BOTTOM OF ENCLOSURE. WHERE THERE IS WOOD TRIM, DEVICES SHALL BE MOUNTED 1" ABOVE WOOD TRIM. CALL IN DEVICES SHALL NOT BE MOUNTED MORE THEN 51" AFF TO THE BOTTOM OF ENCLOSURE. IF THERE ARE ANY CONFLICTS, CONTRACTOR SHALL COORDINATE WITH ARCHITECT/ENGINEER BEFORE THE START OF ANY WORK.*
3. *ALL SPEAKERS SHALL BE MOUNTED 8'-0" AFF TO THE BOTTOM OF ENCLOSURE FOR CLASSROOMS AND BASEMENT CORRIDORS. ALL CORRIDORS ON THE FIRST AND SECOND FLOOR SPEAKERS SHALL BE MOUNTED AT 9'-0" AFF UNLESS DIRECTED OTHERWISE BY ARCHITECT/OWNER. FINAL COORDINATION SHALL BE DONE WITH ARCHITECT/OWNER BEFORE THE START OF ANY WORK.*
4. *ALL LOW VOLTAGE PUBLIC ADDRESS WIRING SHALL BE ROUTED IN WIREMOLD SIMILAR TO 700 SERIES.*
5. *ALL CUTTING AND PATCHING FOR SECURITY AND P.A WORK SHALL BE DONE BY ELECTRICAL CONTRACTOR.*



PARTIAL FIRST FLOOR PLAN (NEW WORK) — 1 / E302.00 — 1/8 inch=1 foot



PARTIAL FIRST FLOOR PLAN (NEW WORK) — 2 / E302.00 — 1/8 inch=1 foot

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER
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PS 16 - YONKERS
759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

PAUL J. GALLAGHER — LICENSED PROFESSIONAL ENGINEER — STATE OF NEW YORK — 22961

KEY PLAN — PROJECT NORTH — 1 / E302.00 — 2 / E302.00

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DRAWN BY: K.C.	CHECKED BY: C.G.

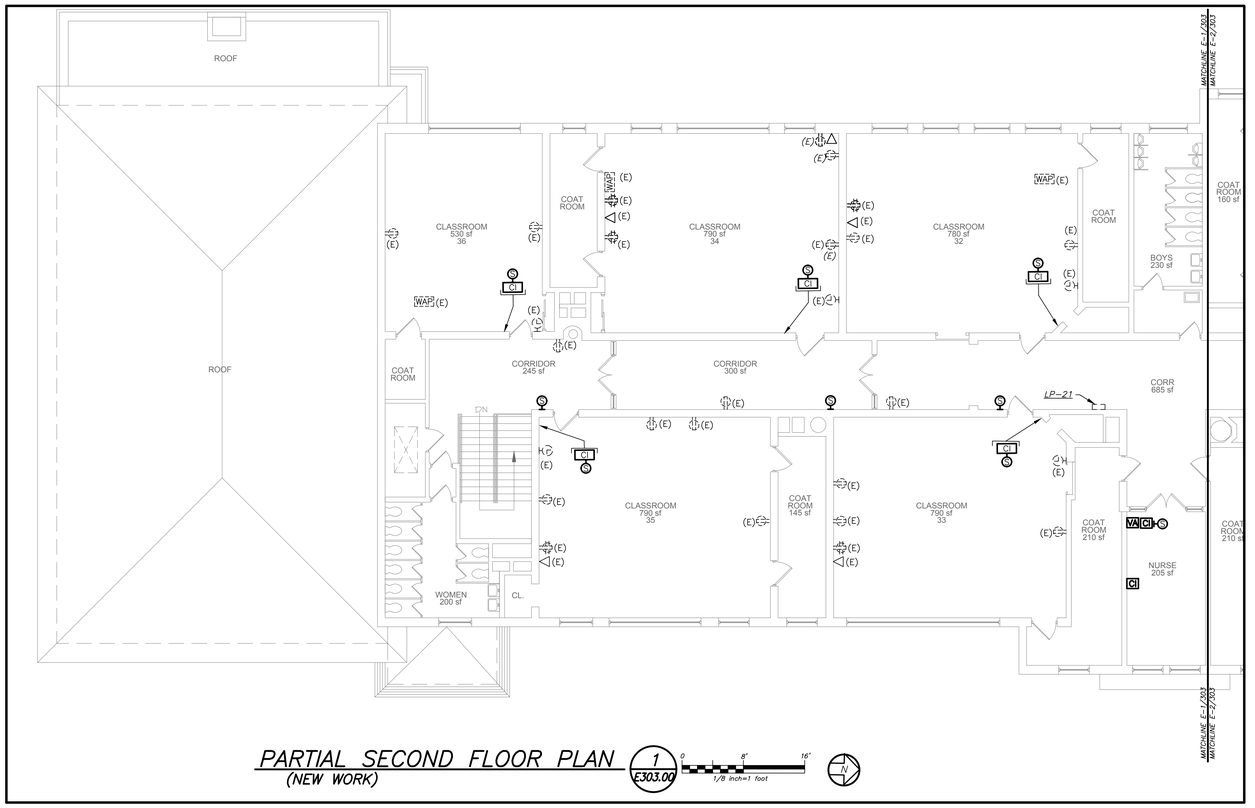
DRAWING TITLE
FIRST FLOOR ELECTRICAL PLAN

SHEET NO.
E302.00

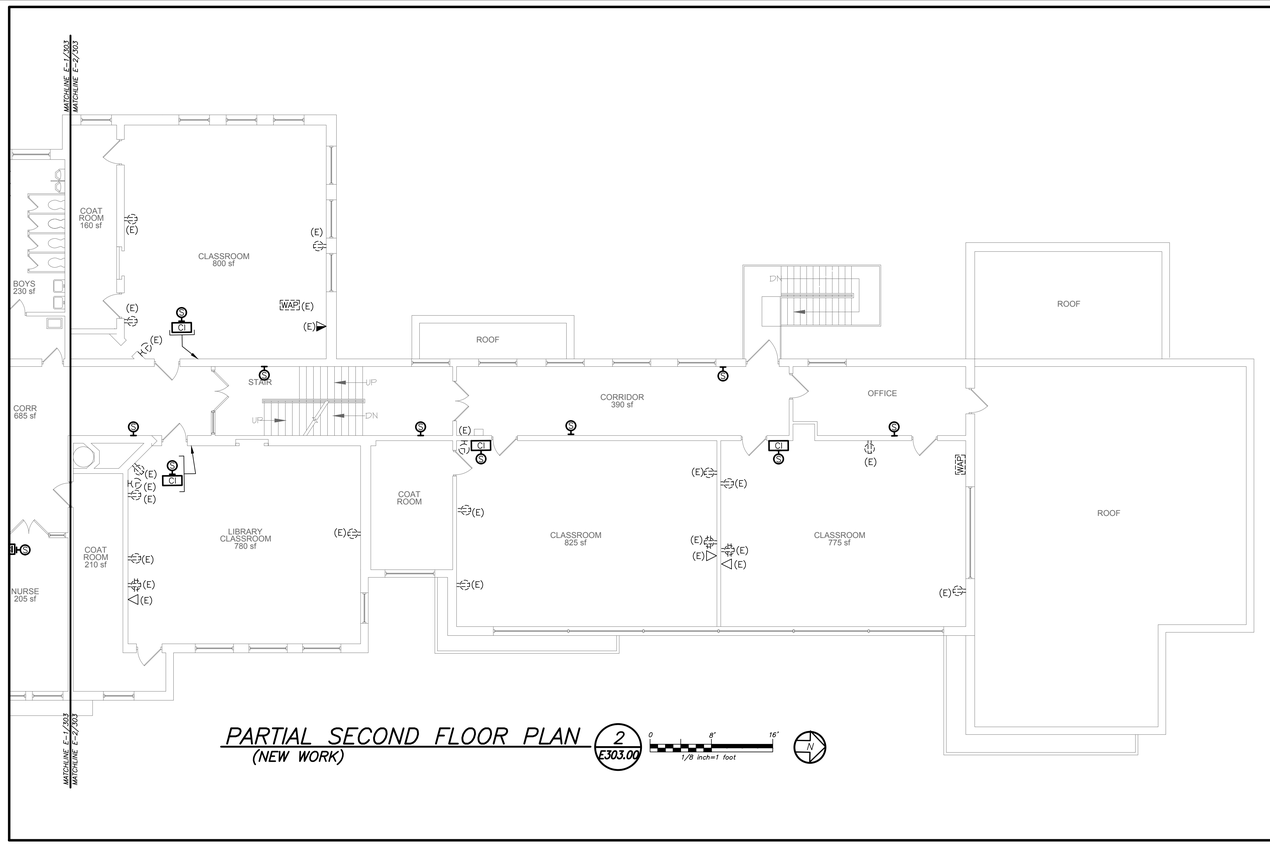
YONKERS PUBLIC SCHOOLS

NEW PUBLIC ADDRESS SYSTEM:

1. PROVIDE SURFACE MOUNTED SPEAKERS AND CALL-IN BUTTONS IN THE CLASSROOMS AND CORRIDORS AS SHOWN.
2. ALL CALL IN BUTTONS SHALL BE MOUNTED 48" AFF TO THE BOTTOM OF ENCLOSURE. WHERE THERE IS WOOD TRIM, DEVICES SHALL BE MOUNTED 1" ABOVE WOOD TRIM. CALL IN DEVICES SHALL NOT BE MOUNTED MORE THEN 51" AFF TO THE BOTTOM OF ENCLOSURE. IF THERE ARE ANY CONFLICTS, CONTRACTOR SHALL COORDINATE WITH ARCHITECT/ENGINEER BEFORE THE START OF ANY WORK.
3. ALL SPEAKERS SHALL BE MOUNTED 8'-0" AFF TO THE BOTTOM OF ENCLOSURE FOR CLASSROOMS AND BASEMENT CORRIDORS. ALL CORRIDORS ON THE FIRST AND SECOND FLOOR SPEAKERS SHALL BE MOUNTED AT 9'-0" AFF UNLESS DIRECTED OTHERWISE BY ARCHITECT/OWNER. FINAL COORDINATION SHALL BE DONE WITH ARCHITECT/OWNER BEFORE THE START OF ANY WORK.
4. ALL LOW VOLTAGE PUBLIC ADDRESS WIRING SHALL BE ROUTED IN WIREMOLD SIMILAR TO 700 SERIES.
5. ALL CUTTING AND PATCHING FOR SECURITY AND P.A WORK SHALL BE DONE BY ELECTRICAL CONTRACTOR.



PARTIAL SECOND FLOOR PLAN (NEW WORK)
1 E303.00
0 8" 16"
1/8 inch=1 foot



PARTIAL SECOND FLOOR PLAN (NEW WORK)
2 E303.00
0 8" 16"
1/8 inch=1 foot

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STATE OF NEW YORK PAUL J. GALLAGHER LICENSED PROFESSIONAL ENGINEER 072961

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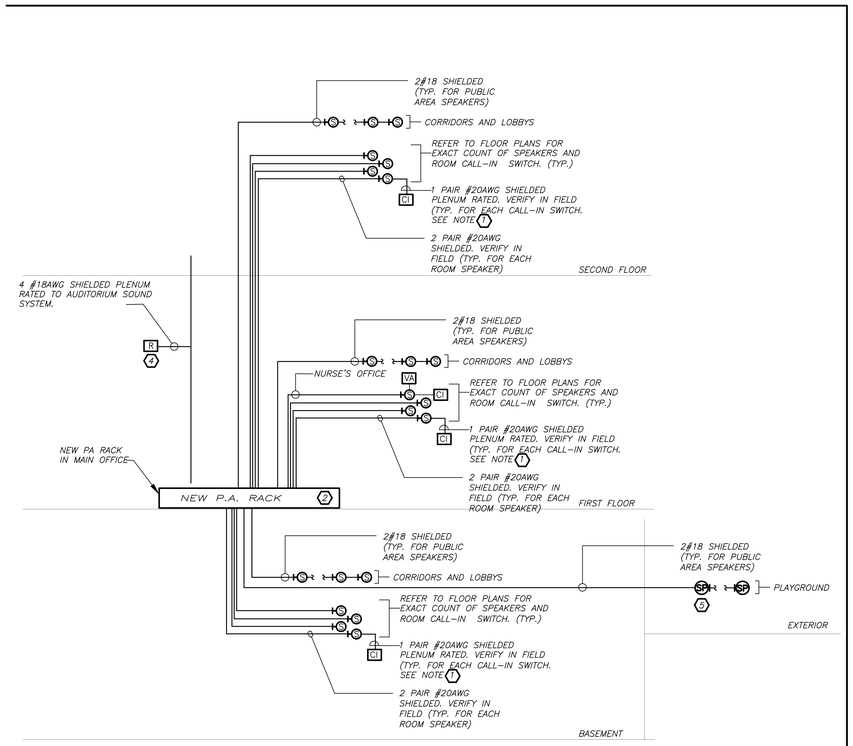
DRAWING TITLE
SECOND FLOOR ELECTRICAL PLAN

SHEET NO.
E303.00

YONKERS PUBLIC SCHOOLS



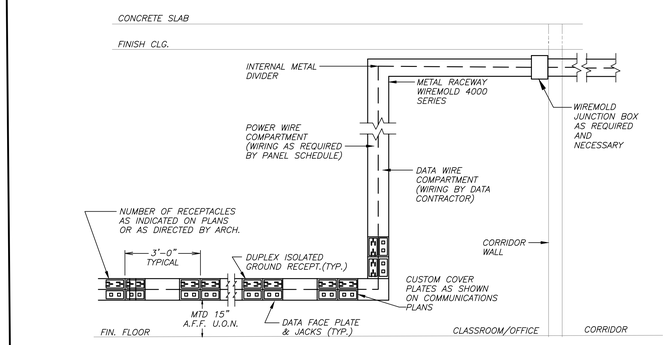
NOTES:

1. VERIFY EXACT QUANTITY AND LOCATION OF DEVICES ON PLAN DRAWINGS.
2. WIRING TYPES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURER.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE PLENUM RATED WIRING AND RUN EXPOSED ABOVE ACCESSIBLE CEILING. IT SHALL BE RUN IN EMT CONDUIT WHERE EXPOSED, EXCEPT IN CORRIDORS, CLASSROOMS AND OFFICES WIRING SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V-500 AND/OR V-700). WIRING SHALL ALSO BE RUN IN EMT FOR STUB-UPS IN CONCEALED WALLS.
4. AUDITORIUM SOUND SYSTEM, PROVIDE OVER RIDE RELAY TO MAKE IT CAPABLE OF INTERFACING WITH SCHOOL PUBLIC ADDRESS SYSTEM AND CAPABLE OF ANNOUNCING CALLS FROM P.A. SYSTEM.
5. ALL PROGRAMMING AND FINAL CONNECTIONS TO P.A. SYSTEM RACK SHALL BE BY SYSTEM MAINTENANCE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS SHALL BE BY ELECTRICAL CONTRACTOR.
6. EXISTING P.A. SYSTEM SHALL BE REMOVED IN ITS ENTIRETY ONCE THE NEW P.A. SYSTEM IS 100% OPERATIONAL.

WORK NOTES:

1. ALL SPEAKERS IN CLASSROOMS, OFFICES, BOILER ROOM, ETC. WHERE INDICATED ON FLOOR PLAN SHALL BE PROVIDED WITH CALL-IN SWITCH AND WIRED AS INDICATED.
2. PROVIDE 90 MINUTE BACK UP FOR P.A. SYSTEM. PROVIDE BATTERY CALCULATIONS.
3. PROVIDE INDICATED WIRING FROM NEW P.A. SYSTEM HEADEND IN MAIN OFFICE AND TAKEOVER RELAY. AS INDICATED ABOVE. PROVIDE BRANCH CIRCUIT AS INDICATED.
4. ELECTRICAL CONTRACTOR SHALL PROVIDE SIGNAL INTERFACE FROM MAIN PUBLIC ADDRESS SYSTEM RACK TO THE STAND ALONE SOUND SYSTEM AMPLIFIERS TO OVERRIDE THE LOCAL SOUND SYSTEM.
5. OWNER SHALL HAVE CAPABILITY TO SHUT OFF EXTERIOR SPEAKER INDEPENDENTLY DURING ALL CALLS.

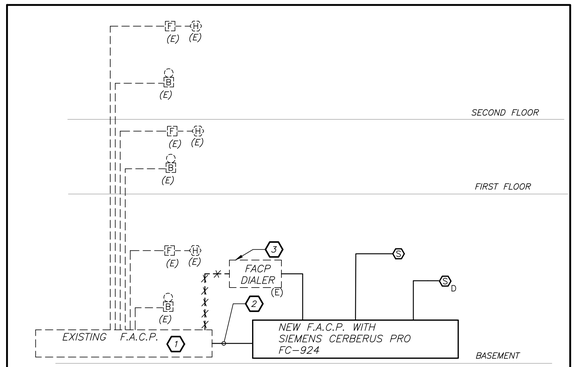
PUBLIC ADDRESS RISER DIAGRAM 5/E601.00 N.T.S.



POWER/DATA DROP FOR ALL EXISTING WALLS 3/E601.00 N.T.S.

LIGHTING FIXTURE SCHEDULE

TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
A	SURFACE MOUNTED	42 WATTS 120/208V	2'x4' LED LIGHTING. WITH FOR 4200 LUMENS AND 35K COLOR TEMPERATURE.	MANUFACTURER: MERCURY LIGHTING LM104-4-4200-35K-1-UNI
EM A	SURFACE MOUNTED	42 WATTS 120/208V	SAME AS FIXURE "A" WITH EMERGENCY BATTERY PACK.	MANUFACTURER: MERCURY LIGHTING LM104-4-4200-35K-1-UNI-EM7
A1	PENDENT MOUNTED	42 WATTS 120/208V	2'x4' LED LIGHTING. WITH FOR 4200 LUMENS AND 35K COLOR TEMPERATURE.	MANUFACTURER: MERCURY LIGHTING LM104-4-4200-35K-1-UNI-VH-48
EM A1	PENDENT MOUNTED	42 WATTS 120/208V	SAME AS FIXURE "A1" WITH EMERGENCY BATTERY PACK.	MANUFACTURER: MERCURY LIGHTING LM104-4-4200-35K-1-UNI-EM7-VH-48
B	SURFACE MOUNTED	32 WATTS 120/208V	1"X 4' LED LIGHTING, WITH 3800 LUMENS. 35K COLOR TEMPERATURE	MANUFACTURER: MERCURY LIGHTING LW4-4-3800-35K-HTA-1-UNI
C	SURFACE MOUNTED	133 WATTS 120/208V	2'x4' LED LOW BAY SURFACE MOUNTED FIXTURE. WITH 17,000 LUMENS AND 4000K COLOR TEMPERATURE. SPECIFIED WITH WIRE GUARD KIT	MANUFACTURER: COLUMBIA LIGHTING CHB-2-40-ML-FA-ED-U-WG-N-SMK-N
EM C	SURFACE MOUNTED	133 WATTS 120/208V	SAME AS FIXURE "C" WITH EMERGENCY BATTERY PACK.	MANUFACTURER: COLUMBIA LIGHTING CHB-2-40-ML-FA-ED-U-ELL14-WG-N-SMK-N
EM D	WALL SURFACE MOUNTED	25 W LED 120V	WALL MOUNTED EXTERIOR LIGHT ,4000K COLOR TEMPERATURE, BATTERY PACK AND INTEGRAL PHOTOCELL. MOUNTED 10'-0" AFF OR AS DIRECTED BY OWNER.	MANUFACTURER: HUBBELL QSP1-12L-30-4K7-3-U-BL-PCU-EH
EM D1	WALL SURFACE MOUNTED	25 W LED 120V	WALL MOUNTED EXTERIOR LIGHT ,4000K COLOR TEMPERATURE, BATTERY PACK. MOUNTED 10'-0" AFF OR AS DIRECTED BY OWNER.	MANUFACTURER: HUBBELL QSP1-12L-30-4K7-3-U-BL-EH
	SURFACE WALL/CEILING MOUNTED	5W LED 120V	EXIT LIGHT WITH STEEL HOUSING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SELF POWERED MODEL WITH 90 MINUTE EMERGENCY BATTERY PACK.	MANUFACTURER: COOPER LIGHTING ATLITE XLN1-6-S-R-1/2U



FIRE ALARM RISER DIAGRAM 4/E601.00 N.T.S.

FIRE ALARM SYSTEM NOTES:

1. FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY EXISTING FIELD CONDITIONS AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION. VERIFY EXACT QUANTITY OF DEVICES WITH PLANS.
2. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED RELAYS, CONTACTS, ZONE BOARDS, ETC. FOR A COMPLETE AND FULLY FUNCTIONAL FIRE ALARM SYSTEM.
3. THE FIRE ALARM INSTALLATION SHALL COMPLY WITH STATE & LOCAL BUILDING CODES, NATIONAL ELECTRICAL CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), AND NFPA 72, 101 AND 90A AND STATE EDUCATION DEPT.
4. PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
5. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND PROTECT EXISTING FIRE ALARM BELLS, SMOKE DETECTORS, AND OTHER FIRE ALARM SAFETY DEVICES IN OPERATION AT ALL TIMES. IF ANY PORTION OF FIRE ALARM SYSTEM IS DISABLED, NOTIFY BUILDING OWNER IMMEDIATELY.
6. UNLESS DIRECTED OTHERWISE BY FIRE ALARM MAINTENANCE VENDOR FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):

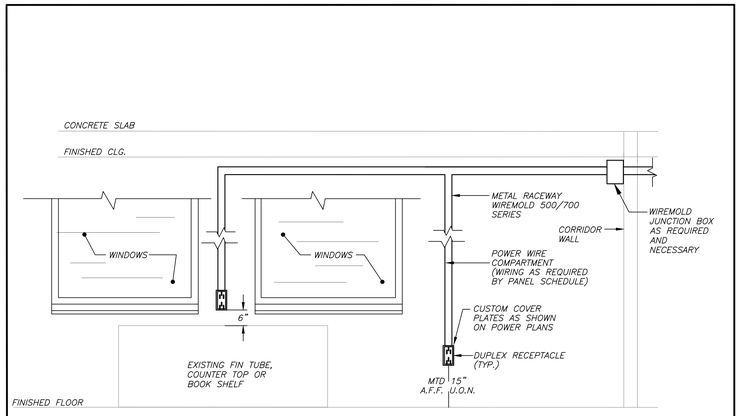
   SIGNAL WIRING – #14 AWG TWISTED/SHIELDED

   THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
   A. A MINIMUM TEMPERATURE RATING OF 150 C
   B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
   C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
   D. THE COLOR OF THE CABLE SHALL BE RED
   E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE) WHEN CONDUIT IS USED. SEE NOTE 5 FOR ADDITIONAL CLARIFICATION.
   F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.

   CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
7. PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V-700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3/4" CONDUIT.
8. SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP, EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER, SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING 'ATC' SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
9. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
10. COORDINATE F.A. WORK WITH F.A VENDOR.
11. VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS.
12. ALL DEVICES SHALL BE SUPERVISED AS PER N.F.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.
13. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.

FIRE ALARM RISER WORK NOTES:

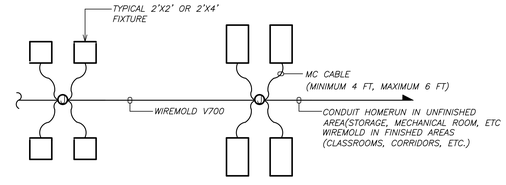
1. FROM EXISTING FACP, PROVIDE ALL NECESSARY EXPANSION COMPONENTS (LOOP, CARDS, ETC.) BOOSTER POWER SUPPLIES, REMOTE BOOSTER POWER SUPPLIES, PROGRAMMING, UPDATE DATA BASE, TESTING, ETC. FOR SIEMENS CERBERUS PRO-924 FACP.
2. PROVIDE 2 PAIR #16 AWG WIRE IN ¾" CONDUIT TO CROSS TRIP THE ALARM AND TROUBLE FROM THE EXISTING F.A.C.P. TO NEW F.A.C.P.
3. DISCONNECT EXISTING FIRE ALARM DIALER FOR EXISTING FACP AND CONNECT TO NEW FACP.



NOTE:

1. DRAWING IS SCHEMATIC ONLY AND ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR RUNNING WIREMOLD AROUND ALL OBSTRUCTIONS (I.E. BLACK BOARDS, BULLETIN BOARDS, WINDOWS, OPENINGS, ETC.) AND CAREFULLY CUTTING ANY MOLDINGS, FRAMES, ETC. FOR A COMPLETE INSTALLATION.

POWER DROP FOR ALL EXISTING WALLS 1/E601.00 N.T.S.



NOTES:

1. LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUITING AS INDICATED ON THE LIGHTING DRAWINGS.

LIGHTING FIXTURE CIRCUITING DETAIL 2/E601.00 N.T.S.

66.23.00.01.0.016.009

YONKERS PROJECT NUMBER

10845

PROJECT NAME

YONKERS PUBLIC SCHOOLS

PS 16 - YONKERS

759 NORTH BROADWAY
YONKERS, NY 10701

RESTORATION OF BUILDING ENVELOPE, INTERIORS, SECURITY & SITE

STATE OF NEW YORK · PAUL J. GALLAGHER · LICENSED PROFESSIONAL ENGINEER · 076281

KEY PLAN

PROJECT NORTH

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SOMERS, NEW YORK 10589
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CONSULTANTS

CIVIL ENGINEER CONSULTANT

INSITE ENGINEERING, SURVEYING & LANDSCAPE ARCHITECTURE, P.C.
3 Barrett Place, Suite 1 · Cortlandt Manor, NY 10567 · (914) 788-8900 · Fax (914) 788-8907 · www.insite-eng.com

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39 MARBLE AVE PLEASANTVILLE, NY 10570
PHONE: 914.328.6060 FAX: 914.328.5504 Gonen@BGA-Eng.com

REV. NO.	DATE	DESCRIPTION
	01/23/19	SED FOR BUILDING PERMIT
	09/15/19	ISSUED FOR BID
	11/16/20	ISSUED FOR BID

SCALE: AS SHOWN	DATE: 1/23/19
DRAWN BY: K.C.	CHECKED BY: C.G.

DRAWING TITLE

ELECTRICAL SCHEDULES RISER AND DETAILS

SHEET NO.

E601.00

YONKERS PUBLIC SCHOOLS

YONKERS PUBLIC SCHOOLS

SCHOOL 16

759 NORTH BROADWAY
YONKERS, NY 10701

SECURITY UPDATE PROJECT

SECURITY DRAWING LIST

SE-000 COVER SHEET / LEGEND & INDEX

FLOOR PLANS
SE-100 SECURITY UPDATE PROJECT - BASEMENT
SE-101 SECURITY UPDATE PROJECT - FIRST FLOOR
SE-102 SECURITY UPDATE PROJECT - SECOND FLOOR
SE-103 SECURITY UPDATE PROJECT - SITE PLAN

RISER
SE-200 SECURITY DEVICE RISER DIAGRAM

CLOSET DETAILS
SE-300 CLOSET ELEVATIONS
SE-303 CCTV ONE LINE DIAGRAM

TYPICALS
SE-700 iSTAR-OVERALL SCHEMATIC SECURITY
SE-701 DEVICE & POWER CONNECTION
SE-702A ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ MOTION REX
SE-702B ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ BUILT-IN REX
SE-703 SECURITY EQUIPMENT DETAIL 1- (DOOR TYPICALS)
SE-703A SECURITY EQUIPMENT DETAIL 1A- (DOOR TYPICALS)
SE-704 SECURITY EQUIPMENT DETAIL 2- (ACCESS DEVICE TYPICALS)
SE-705 SECURITY EQUIPMENT DETAIL 3- (iLDA DEVICE TYPICALS)
SE-705A SECURITY EQUIPMENT DETAIL 4- (BURG DEVICE TYPICALS)
SE-706 SECURITY EQUIPMENT DETAIL 5- (CCTV TYPICALS)

GENERAL NOTES

1. GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.
2. WORK TO COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, NEC, OSHA, ETC.
3. THE INSTALLING SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING WITH BUILDING MANAGEMENT THE USE OF ELEVATOR OR OTHER HOISTING FACILITIES FOR HANDLING THE DELIVERY OF MATERIALS.
4. FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE INSTALLING SECURITY CONTRACTOR AS REQUIRED BY CODE.
5. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND FINAL SYSTEM CONDUIT AND CONDUCTOR LAYOUTS SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S APPROVED EQUIPMENT, CONDUIT, AND WIRING SHOP DRAWINGS, AND FIELD CONDITIONS.
6. THE INSTALLING CONTRACTOR MUST COORDINATE WITH THE DEVICE INSTALLATION DETAILS, AND ENSURE THAT DEVICE BACKBOXES ARE APPROPRIATE PER THE FINAL SHOP DRAWING APPROVED DEVICE, ON A LOCATION-BY-LOCATION BASIS, AND MEET ARCHITECTURAL REQUIREMENTS FOR SURFACE OR RECESS MOUNTING. RECESS MOUNTING IS THE PREFERRED APPLICATION.
7. PROVIDE APPROPRIATE METALLIC RACEWAY FOR THE SECURITY SYSTEM AS NEEDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND SO AS NOT TO EXCEED 40% CONDUIT FILL.
8. THE INSTALLING CONTRACTOR SHALL PROVIDE ALL 120/220VAC AS REQUIRED FOR THE SECURITY SYSTEM UNLESS OTHERWISE NOTED. FINAL 120 VAC TERMINATIONS IN THE SECURITY EQUIPMENT SHALL BE PERFORMED BY THE INSTALLING SECURITY CONTRACTOR.
9. THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL INTERCONNECTING CONDUITS AND RACEWAYS INSIDE THE SECURITY EQUIPMENT AND TERMINATE ALL WIRES AS SHOWN IN THIS DRAWING SET.
10. THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLE PASS-THROUGH HOLES IN MILLWORK UNLESS OTHERWISE NOTED.
11. THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL OVERHEAD CABLE SUPPORTED BY J-HOOKS, CABLE TRAY OR EQUIVALENT. CABLE SHALL NOT BE SUPPORTED BY CEILING GRID, DUCTWORK, SPRINKLER PIPES, ELECTRICAL CONDUIT OR GAS PIPES.
12. THE INSTALLING CONTRACTOR TO PROVIDE GROUNDING OF ALL ELECTRONICS EQUIPMENT ON THE PLYWOOD BACKBOARD. USE GROUND BAR OR COORDINATE WITH GENERAL CONTRACTOR FOR NEAREST GROUNDING LOCATION.
13. THE INSTALLING CONTRACTOR SHALL PREP ALL DOORS FOR DOOR HARDWARE, THIS INCLUDES MAGNETIC LOCKS, ELECTRIC LOCKS, DOOR FRAMES FOR ELECTRIC STRIKES, HOLES FOR DOOR CONTACTS AND MAGNETIC LOCK ASSEMBLIES.
14. THESE DRAWINGS INDICATE THE GENERAL INTENT OF WORK AND ARE NOT INTENDED TO INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE CONTRACT.
15. ALL CONDUIT SHALL BE DEBURRED, CLEANED, CAPPED, TAGGED, AND PROVIDED WITH PULL WIRES AND BRUSHINGS. WHERE CONDUITS OR WIREWAYS PASS THROUGH FIRE RATED ASSEMBLIES, THE PENETRATIONS SHALL BE FIRE- STOPPED.
16. PRIOR TO SYSTEM TURN-ON, THE INSTALLING SECURITY CONTRACTOR SHALL REVIEW THE INSTALLATION OF ALL ELECTRIFIED DOOR HARDWARE WITH OWNER'S REP TO VERIFY CORRECT INSTALLATION & PROPER FUNCTIONING.
17. AT THE TIME OF ACCESS CONTROL SYSTEM TURN ON, THE INSTALLING CONTRACTOR SHALL PROVIDE THE SAME PERSONNEL WHO PERFORMED & SUPERVISED THE WORK TO TROUBLESHOOT. TEST THE INSTALLATION AND REMEDY ALL RELATED PUNCH LIST ITEMS FOR FINAL COMMISSIONING.
18. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDY OF ANY CABLE &/OR EQUIPMENT INSTALLATION PROBLEMS AND ALL RELATED PUNCH LIST ITEMS.
19. CLIENTS FIRE ALARM CONTRACTOR SHALL PROVIDE A SET OF NORMALLY CLOSED (N/C) CONTACTS TO RELEASE ON GENERAL ALARM.
20. THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PROVIDING BACK A COMPLETE, MARKED UP SET FOR THE GENERATION OF CORRECT AS BUILT DRAWINGS. INSTALLING SECURITY CONTRACTOR IS TO PROVIDE THE SECURITY PROJECT MANAGER WITH THE UPDATED SETS AND REVIEW.
21. ALL WIRES TO BE MACHINE LABELED VIA SELF LAMINATING I.SL-77 TAGS. PROVIDE FOR OWNER'S REP REVIEW PRIOR TO USE
22. SECURITY SCREWS TO BE USED AS NEEDED AND EXPECTED TO MAINTAIN SYSTEM'S INTEGRITY

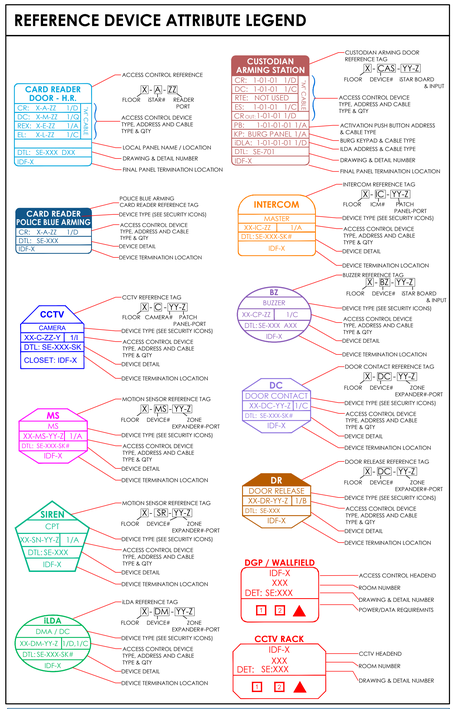
POWER REQUIREMENTS

1	**POWER (EMERGENCY CIRCUIT)** ELECTRICAL CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4'x4' BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.
2	**POWER (NON-EMERGENCY CIRCUIT)** ELECTRICAL CONTRACTOR TO PROVIDE A HARD WIRED CONNECTION TO A 120 VAC 20A NON-EMERGENCY CIRCUIT DEDICATED TO SECURITY IN EACH RISER LOCATION WITHIN A 4'x4' BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

SECURITY DEVICES LEGEND

CR$_X$	CARD READER	LR = LONG RANGE EL = ELEVATOR	BIO = BIOMETRIC BC = BARCODE
DDC$_X$	DOUBLE DOOR CONTACTS	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
DC$_X$	DOOR CONTACT	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
KP	BURG PANEL KEY PAD		
DO	ELECTRIFIED DOOR OPERATOR (PBO)		
OH$_X$	OVERHEAD DOOR CONTACT	DPDT = DOUBLE POLE DOUBLE THROW	
EL$_X$	ELECTRIC MORTISE LOCK	REX = REQUEST TO EXIT BUILT IN	
ML	ELECTROMAGNETIC LOCK		
ES	ELECTRIC STRIKE LOCK		
EOL	END OF LINE RESISTOR		
REX	REQUEST TO EXIT MOTION SENSOR		
LDA	INTELLIGENT LOCAL DOOR ALARM (ILDA) - "D" CABLE		
CB$_X$	ELECTRIC LOCKING CRASH BAR	REX = BUILT IN REQUEST TO EXIT	
MD$_{(LR)}$	MOTION SENSOR (LONG RANGE) - "A" CABLE	MOTION SENSORS WILL BE WALL MOUNTED UNLESS MOTION SENSOR IS 360º CEILING TYPE	
MD$_{(SR)}$	MOTION SENSOR (SHORT RANGE) - "A" CABLE		
BUZ	BUZZER		
TMP	TEMPERATURE SENSOR		
MON	VIDEO MONITOR		
ICM$_X$	INTERCOM	S=SUBSTATION M=MASTER	VS=VIDEO SUBSTATION VM=VIDEO MASTER
S	SIREN		
CAS	CUSTODIAL ARMING STATION		
	FIXED MINI DOME OUTDOOR VANDAL CAMERA		
	FIXED MINI DOME INDOOR CAMERA		
	PTZ DOME OUTDOOR CAMERA		
	PTZ DOME INDOOR CAMERA		
	FIXED BOX OUTDOOR CAMERA		
	FIXED BOX INDOOR CAMERA		

REFERENCE DEVICE ATTRIBUTE LEGEND



CABLE LEGEND

CABLE TYPE	MANUFACTURER	PART NUMBER	DESCRIPTION	USE	O.D.
A	REMEE	TYPE A	20 AWG / 2 PAIR, INDIVIDUALLY SHIELDED PLENUM PINK CABLE	INTERCOM, COMMUNICATION, REX	.194 IN
B	BELDEN	3082A	MULTI-CONDUCTOR DEVICEBUS FOR EDVICENET CABLE	PLC COMMUNICATION	.480 IN
C	REMEE	TYPE C	18AWG / 2 COND PLENUM PINK CABLE	PTZ POWER	.150 IN
D	REMEE	TYPE D	20AWG / 8 COND OVERALL SHIELD PLENUM PINK CABLE	CARD READER, COMMUNICATION	.207 IN
E	CORNING	12MM62.5	6 STRAND 62.5M RISER FIBER - MULTIMODE	NETWORK BACKBONE	
F	REMEE	TYPE F	RG59/U 20AWG PLENUM PINK CABLE	ANALOG CCTV CAMERA, ANALOG MONITOR	.214 IN
H	TBD	TBD	14 AWG / 6 COND THHN STRANDED QUICK PULL CABLE COLOR: BLUE, RED, BROWN, YELLOW, PINK, WHITE	DETENTION LOCK POWER/STATUS	
I	REMEE	TYPE I	23 AWG / 4 PAIR CAT5E – UNSHIELDED PLENUM	IP CCTV CAMERA, NETWORK	.215 IN
M	REMEE	TYPE M	4 ELEMENT COMPOSITE PINK CABLE PLENUM (A) - TYPE A: 20AWG / 2 PAIR – REX (C) - TYPE C: 18AWG / 2 COND – LOCK POWER (D) - TYPE D: 20AWG / 8 COND – CARD READER (Q) - TYPE Q: 20AWG / 2 COND – DOOR CONTACT	ACCESS CONTROL DOOR	.420 IN
P	HITACHI	57-2631	24AWG / 25 PAIR CAT5E PLENUM	PLC COMMUNICATION	.454 IN
Z	WEST PENN WIRE	AQC3186	18 AWG / 6 COND OVERALL SHIELDED, PVC	PEDESTAL CARD READER	.323 IN
X	WEST PENN WIRE	AQC357	22 AWG / 2 PAIR, 1 PAIR SHIELDED, 1 PAIR UNSHIELDED, PVC	PEDESTAL INTERCOM	.235 IN

NOTES:
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3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY MANAGER.
4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
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6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:

DATE	COMMENTS
1/10/2018	ISSUED FOR REVIEW / APPROVAL
2/18/2019	ISSUED FULL SET FOR APPROVAL
2/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

ITG Larson, INC.
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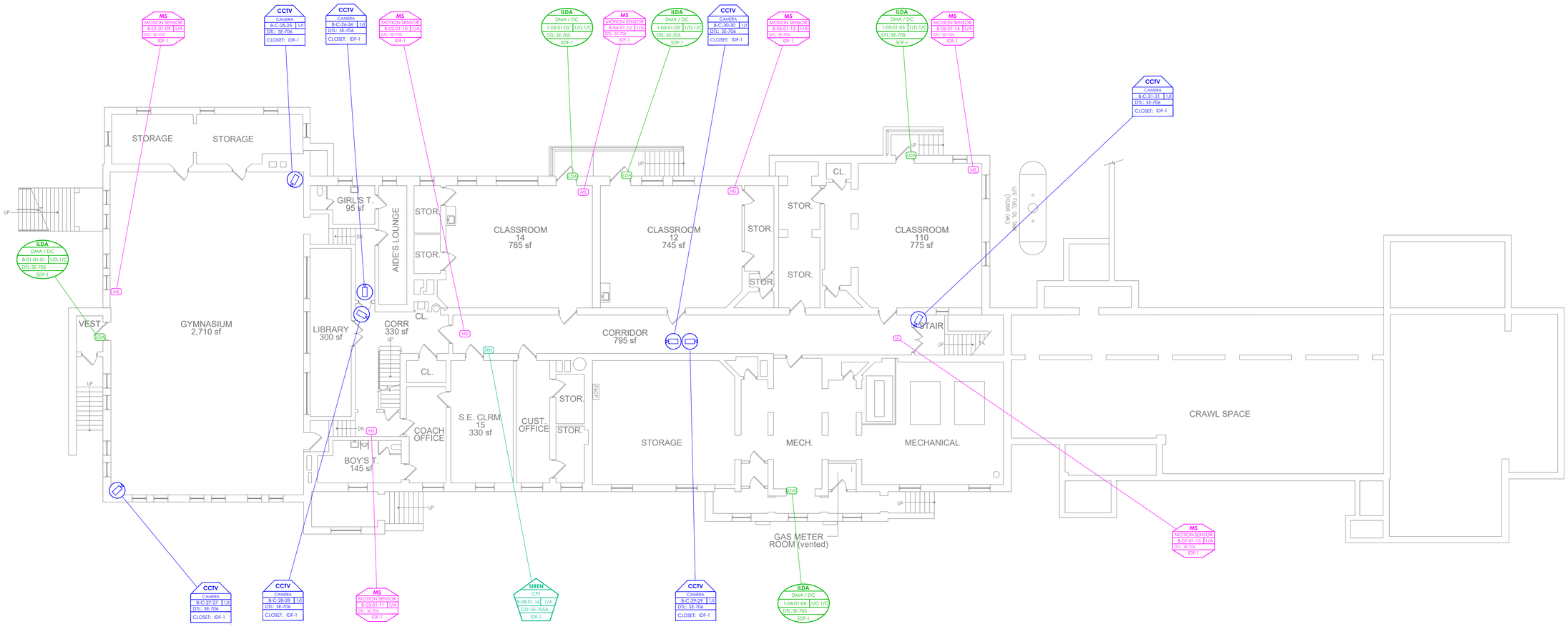
PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
COVER SHEET / LEGEND & INDEX

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX	DATE: 11/27/2019
S.A. NO: XXXXXX	SCALE: NTS
	DRAWING NO: SE-000



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PROJECT:

RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:

SECURITY UPDATE PROJECT
BASEMENT

I.T.	C.A.	E.M.
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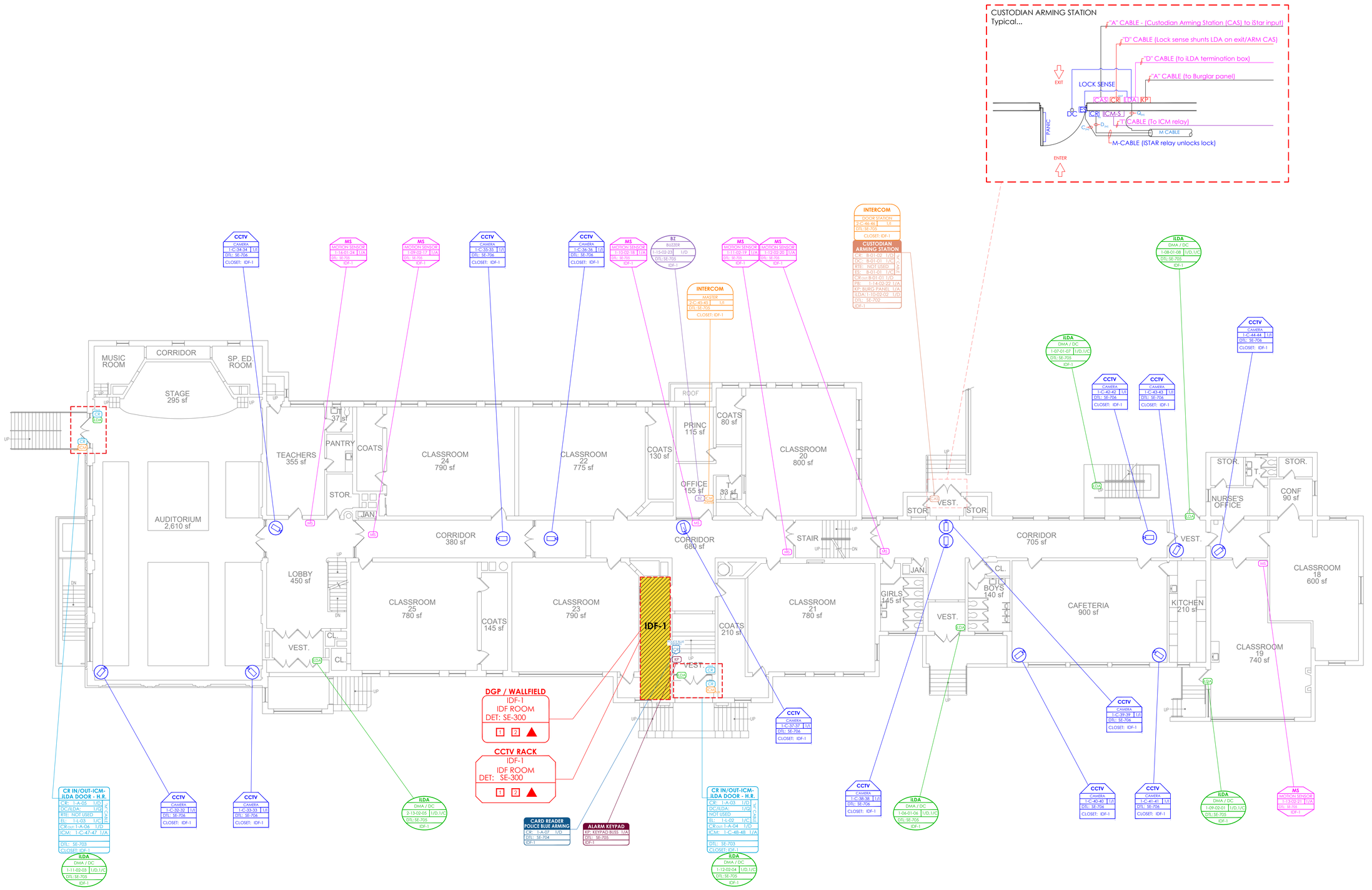
WORK ORDER NO:	DATE: 11/27/2019
XXXXXX	SCALE:
S.A. NO: XXXXXX	DRAWING NO: SE-100



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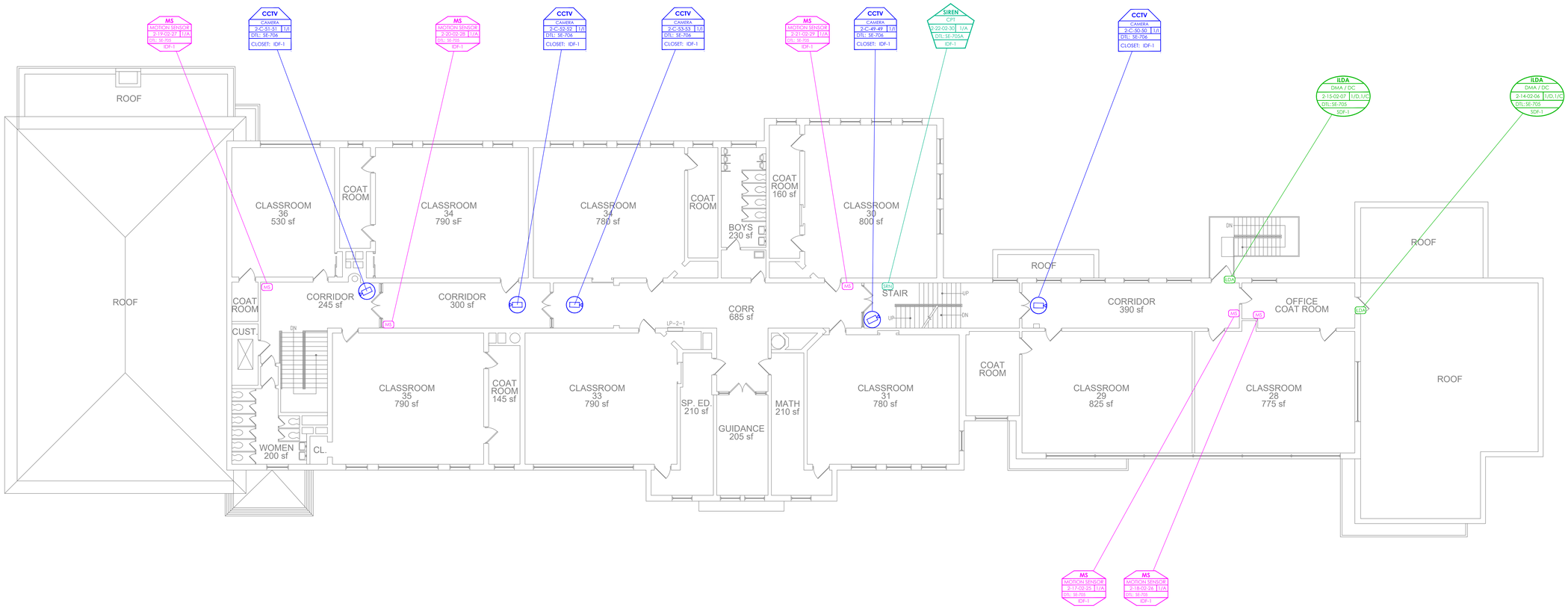
PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
SECURITY UPDATE PROJECT
FIRST FLOOR

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO.: XXXXXX
DATE: 11/27/2019
SCALE:
S.A. NO.: XXXXXX
DRAWING NO.: SE-101



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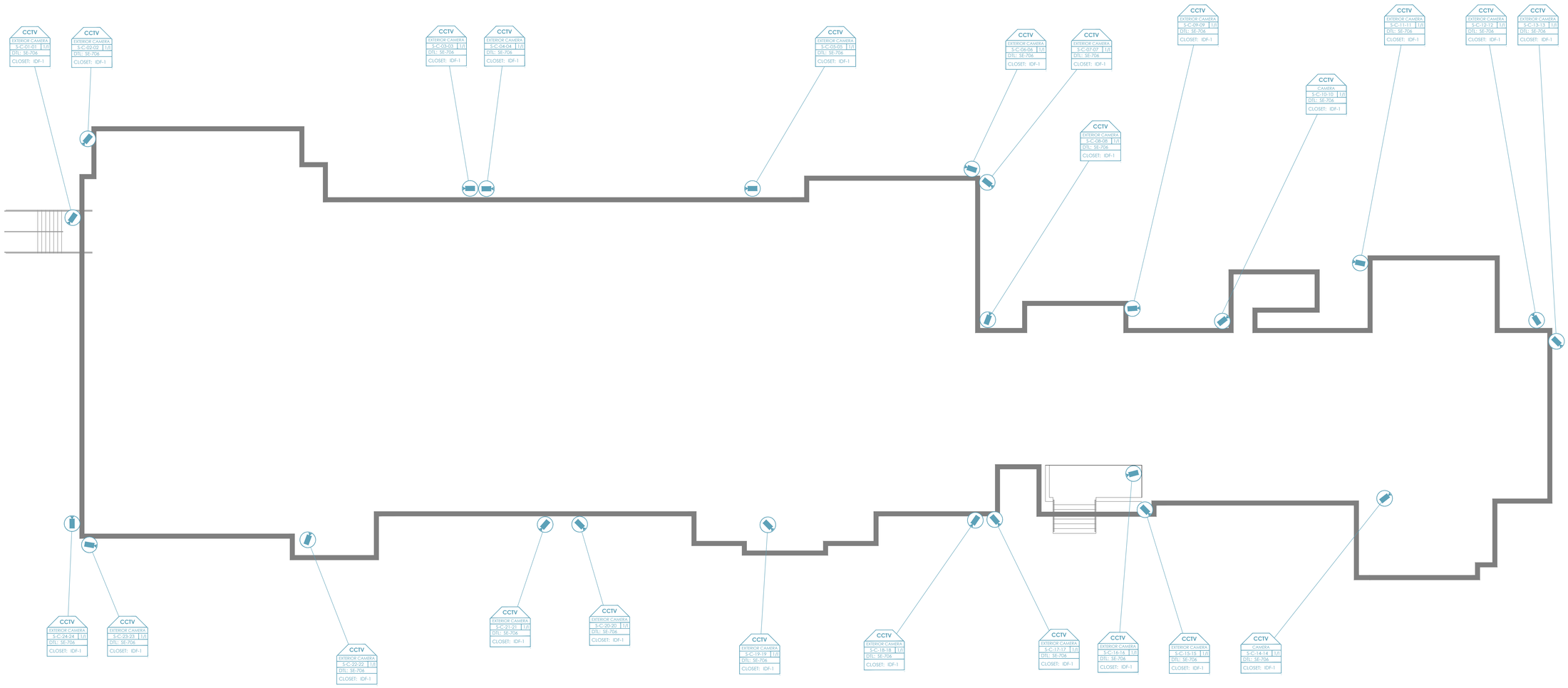
YONKERS, NY 10701

TITLE:
SECURITY UPDATE PROJECT
SECOND FLOOR

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX	DATE: 11/27/2019
	SCALE:
S.A. NO: XXXXXX	DRAWING NO: SE-102



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8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:

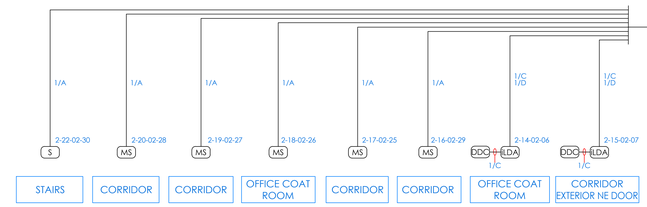
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:

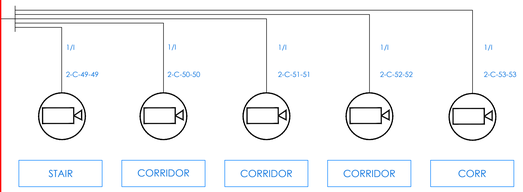
SECURITY UPDATE PROJECT
SITE PLAN

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX
DATE: 11/27/2019
SCALE:
S.A. NO: XXXXXX
DRAWING NO: SE-103



SECOND FLOOR



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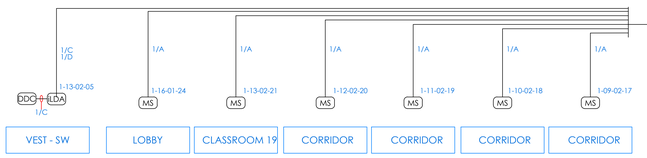
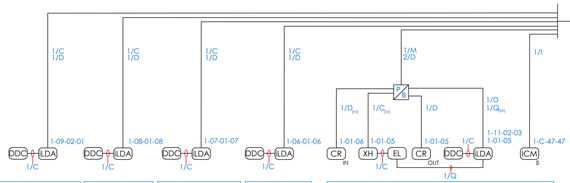
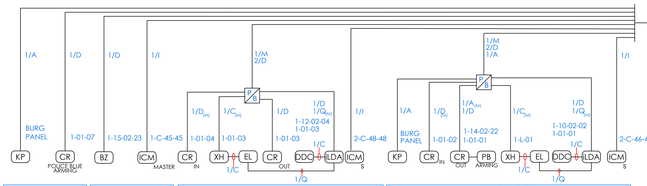
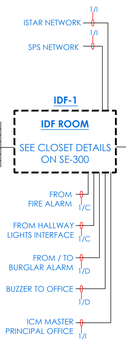
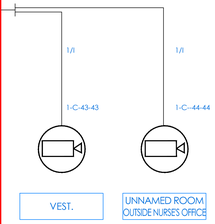


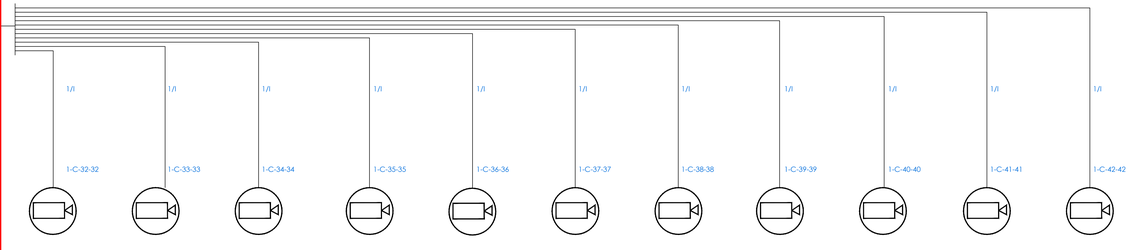




FIRST FLOOR







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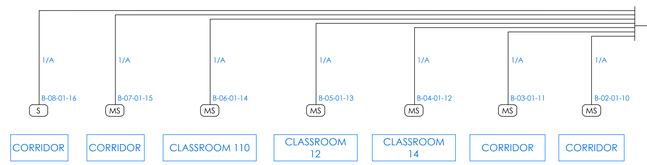

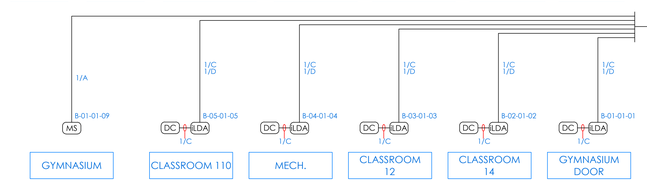

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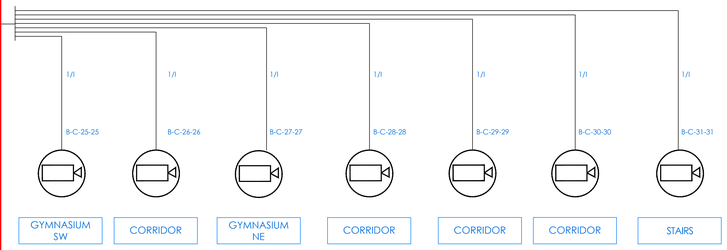
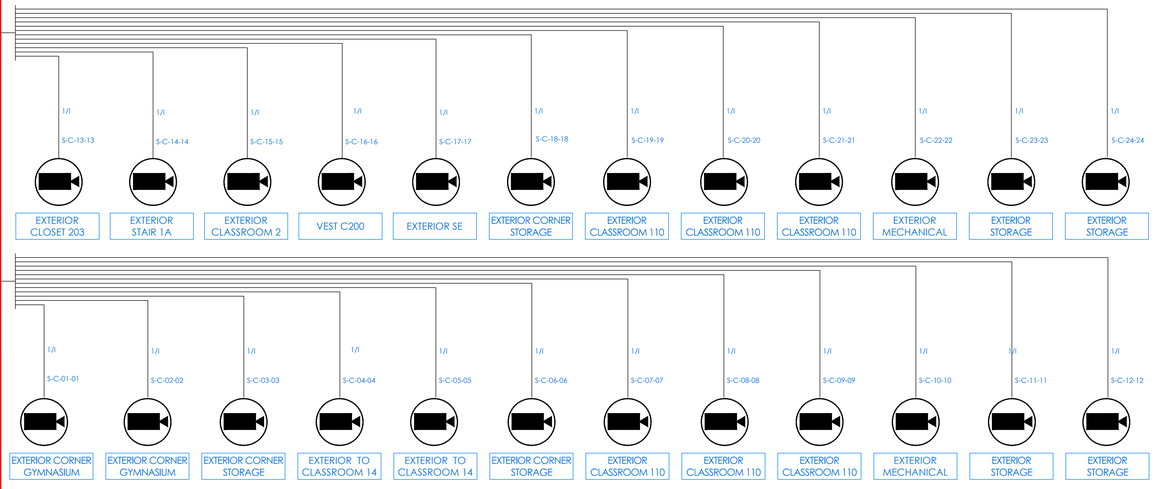


BASEMENT FLOOR



SITE / EXTERIOR

SITE / EXTERIOR

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155 Lafayette Ave
White Plains, NY 10603

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PROJECT:

RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:

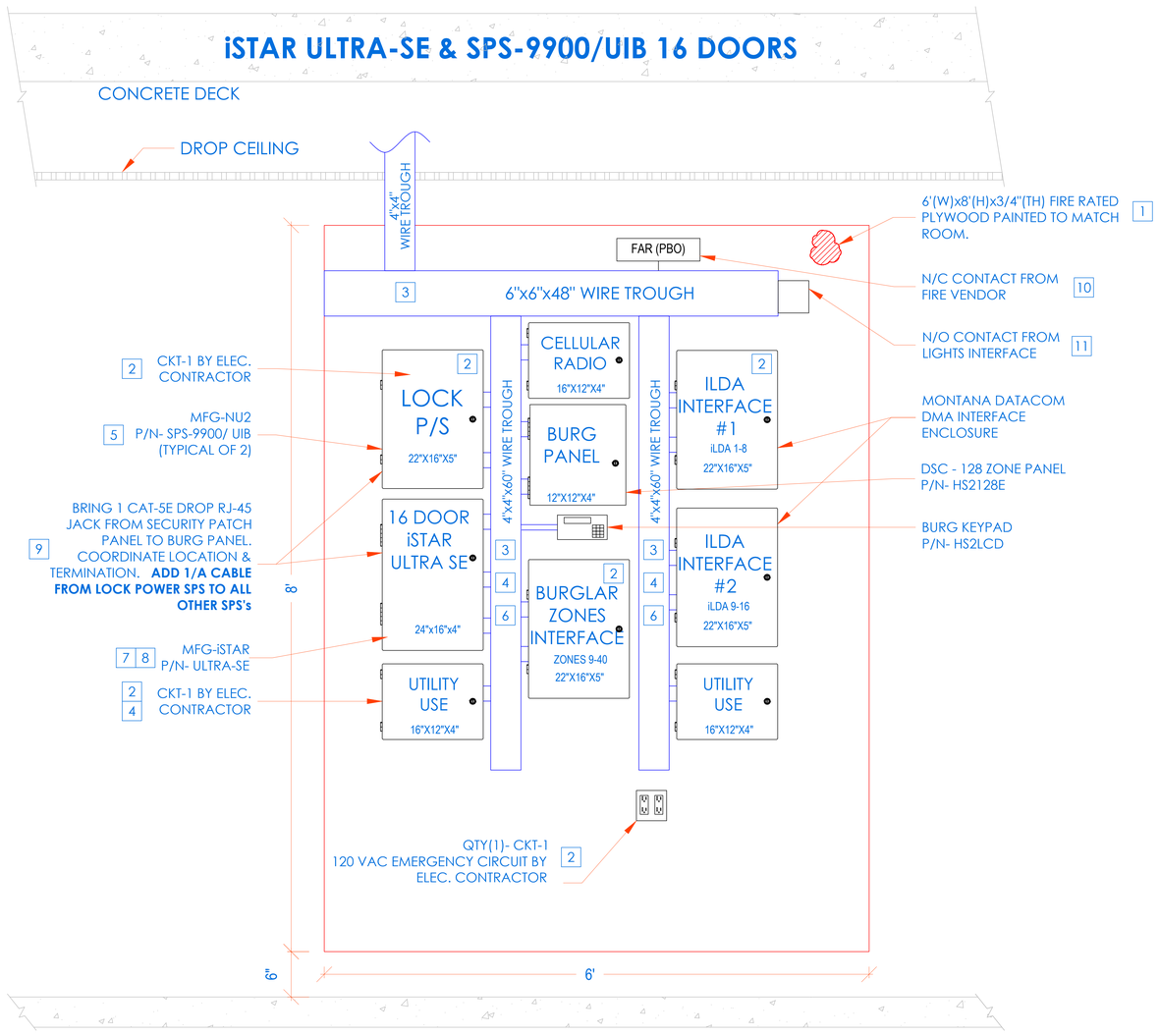
SECURITY DEVICE RISER DIAGRAM

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX	DATE: 11/27/2019
S.A. NO: XXXXXX	SCALE: NO SCALE
	DRAWING NO: SE-200

Plot Date: 11/25/2020 5:38:09 AM File Name: School 16 SE-200 - Riser Rev 2.dwg Plotted by: chris

iSTAR ULTRA-SE & SPS-9900/UIB 16 DOORS



INSTALLATION PROCEDURE
iSTAR ULTRA SE WITH SPS-9900/ UIB ACCESS CONTROL HEADEND

1. LAYOUT EQUIPMENT TO BE MOUNTED AT DESIGNATED PLYWOOD (FIRE RATED AND PAINTED TO MATCH ROOM) BOARD IN SDF ROOM IN ACCORDANCE WITH THE PROVIDED ELEVATIONS HERE. STEPS KEYED ON THE DRAWINGS ARE NOTED BELOW.
2. COMPLETE INSTALLATION OF 120VAC/20A DEDICATED CIRCUIT AS SHOWN.
3. FURNISH AND INSTALL A 6"x6"x48" CABLE TROUGH WITH SCREW FASTENED REMOVABLE COVER (NEMA TYPE 1), MOUNTED HORIZONTALLY, ON THE PLYWOOD 4" FROM THE TOP EDGE OF PLYWOOD.
4. FURNISH AND INSTALL A 4"x4"x60" CABLE TROUGH WITH SCREW FASTENED REMOVABLE COVER (NEMA TYPE 1), MOUNTED VERTICALLY, CENTERED ON THE PLYWOOD ADJOINING TO HORIZONTAL TROUGH. PROVIDE PUNCH OUTS TO MATCH THE EQUIPMENT AS SHOWN.
5. MOUNT THE UTILITY ENCLOSURE 4" FROM BOTTOM EDGE OF VERTICAL TROUGH.
6. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM THE LOCK POWER SUPPLY (SPS-9900/UIB) TO THE CENTER TROUGH AS SHOWN. DO NOT ENTER BOTTOM OF P/S (INTERFERES WITH BATTERY).
7. FURNISH AND INSTALL 1-1/2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM THE ISTAR ULTRA SE TO THE CENTER TROUGH AS SHOWN.
8. MOUNT [iSTAR ULTRA SE] ENCLOSURE 1" BELOW THE LOCK POWER SUPPLY. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM [ISTAR ULTRA SE] ENCLOSURE TO THE CENTER TROUGH AS SHOWN.
9. BRING CAT-5 CABLE AND/OR MOUNT AN RJ-45 JACK FOR PANEL DATA COMM, FROM NEAREST NETWORK SWITCH TO HERE. COORDINATE TERMINATION WITH TELECOM VENDOR OR CUSTOMER'S DATA CONSULTANT. **ADD 1/A CABLE FROM LOCK POWER SUPPLY (SPS) TO ALL OTHER SPS's.**
10. COORDINATE WITH MEP/ BLDG MANAGEMENT TO PROVIDE ONE SET OF NORMALLY CLOSED (N/C) DRY CONTACT FROM THE SITE'S FIRE ALARM SYSTEM, TO OPEN ON GENERAL ALARM ACTIVATION. (PROVIDED BY FIRE VENDOR).ELECTRIC LOCKS MUST BE FAIL SAFE FOR THIS FUNCTIONALITY. PERFORM SAME FOR HALLWAY LIGHTS INTERFACE
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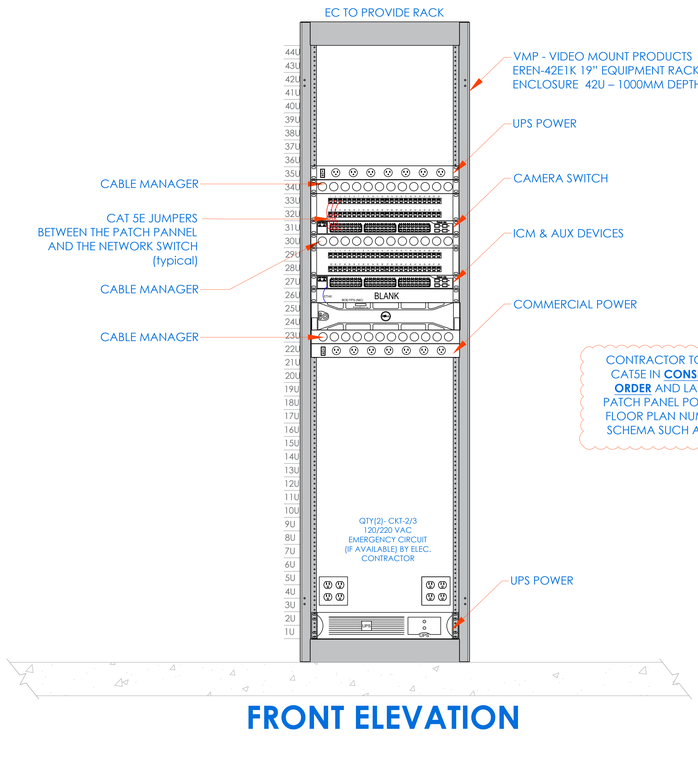
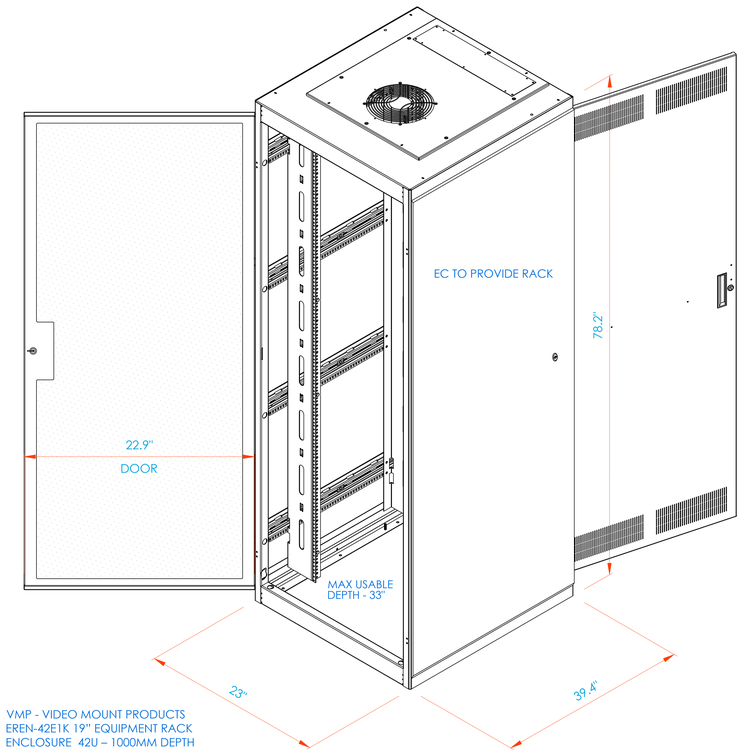
CCTV NETWORK RACK



CONTRACTOR TO PUNCH CAT5E IN **CONSECUTIVE ORDER** AND LABEL ALL PATCH PANEL PORTS WITH FLOOR PLAN NUMBERING SCHEMA SUCH AS 1-C-17

FRONT ELEVATION



RACK - 3D VIEW

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11/15/2020	REVISED-ISSUED FOR BID

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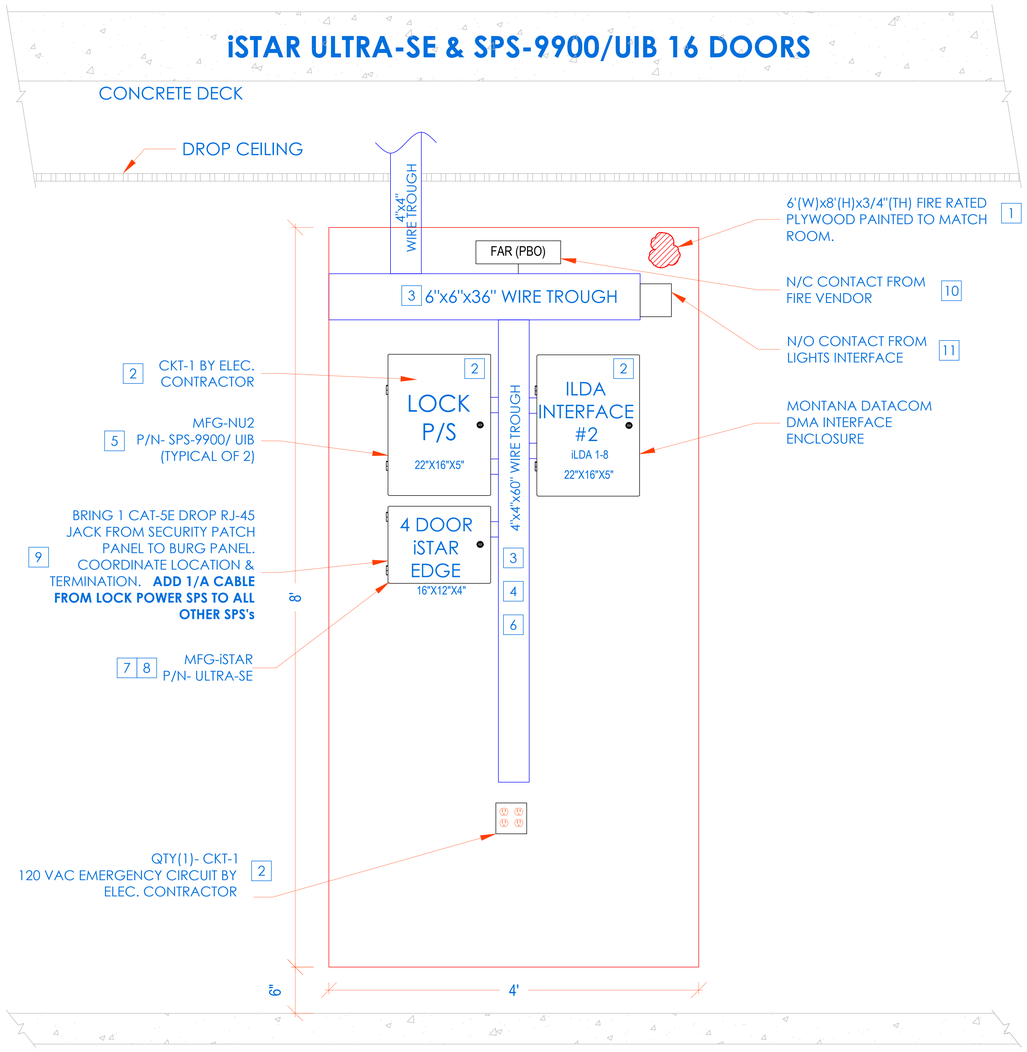
PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
CLOSET ELEVATIONS
IDF-1

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO:	DATE: 11/27/2019
XXXXXX	SCALE: N.T.S.
E.A. NO: XXXXXX	DRAWING NO: SE-300

iSTAR ULTRA-SE & SPS-9900/UIB 16 DOORS



INSTALLATION PROCEDURE
iSTAR ULTRA SE WITH SPS-9900/ UIB ACCESS CONTROL HEADEND

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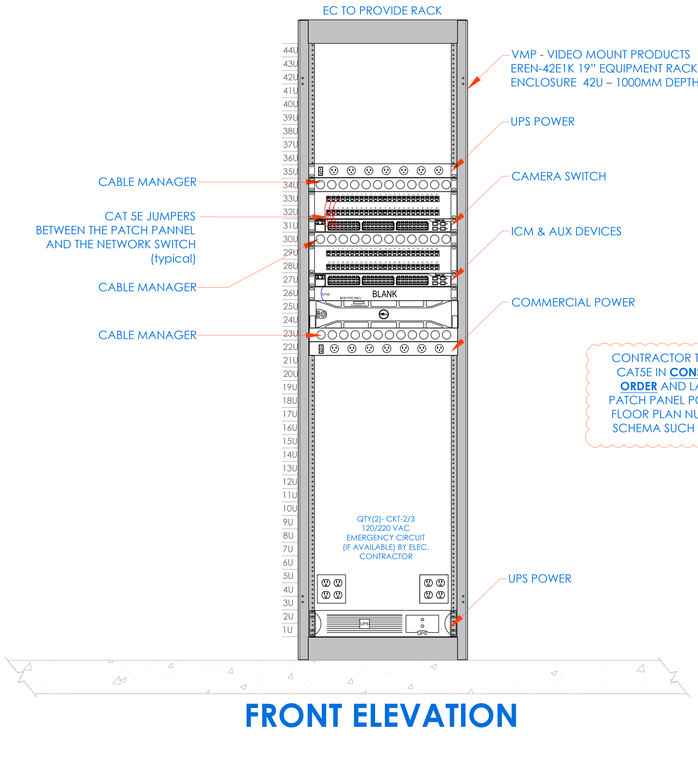

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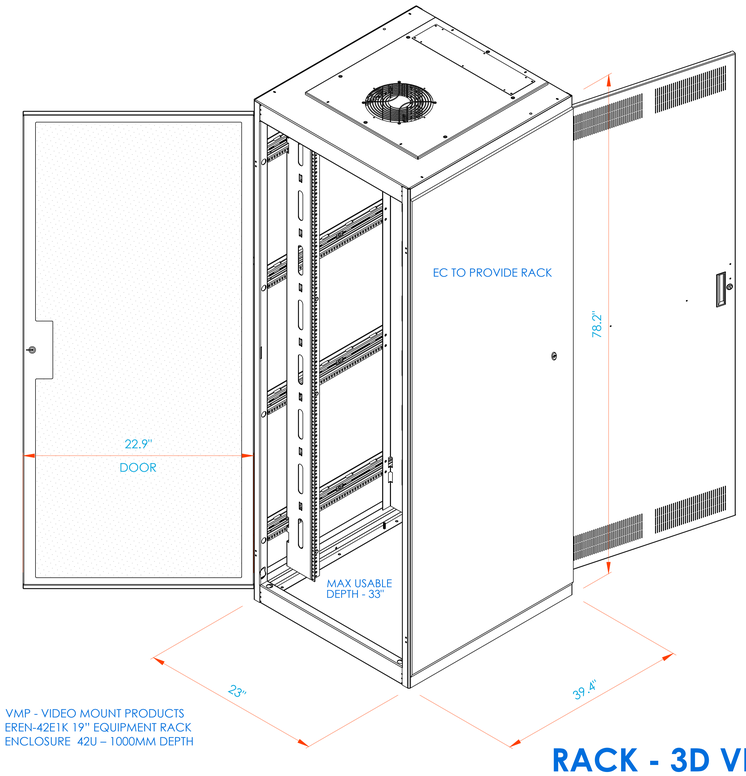

VMP - VIDEO MOUNT PRODUCTS
EREN-42E1K 19" EQUIPMENT RACK
ENCLOSURE 42U – 1000MM DEPTH

RACK - 3D VIEW

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565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
CLOSET ELEVATIONS
IDF-2

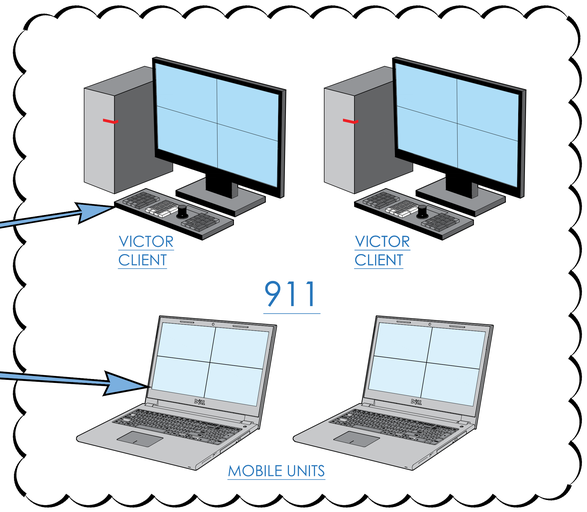
I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX	DATE: 11/27/2019
	SCALE: N.T.S.
S.A. NO: XXXXXX	DRAWING NO: SE-301

COY-BOE SECURITY DEVICE NETWORK TOPOLOGY

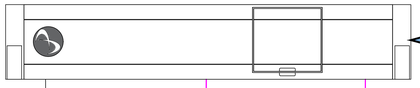
CCURE / VICTOR DB

COY
CITY OF YONKERS



* TO UTILIZE VICTOR FOR MAX FUNCTIONALITY
USERS WILL CONNECT TO COY UNIFIED SERVER

AMERICAN DYNAMICS NVR

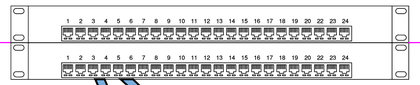


ETH0
COY NETWORK

ETH1
BOE NETWORK

ETH2
CAMERA NETWORK

SCHOOL SWITCH



BOARD OF EDUCATION

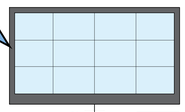
CAMERA SWITCH 1

TYPICAL

C1 CAT-5 ; 10.100.xx.xxx
C2 CAT-5 ; 10.100.1.135
C3 CAT-5 ; 10.100.1.1XX
C4 CAT-5 ; 10.100.1.137

FIBER
CONNECTION
OR DEDICATED CAT 6e

47" WALL MOUNTED
PRINCIPAL'S OFFICE

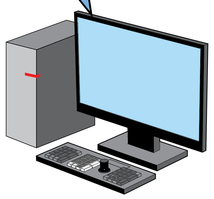


ATLONA X 2

KBD & MOUSE

VICTOR CLIENT

VICTOR MONITORING CLIENT



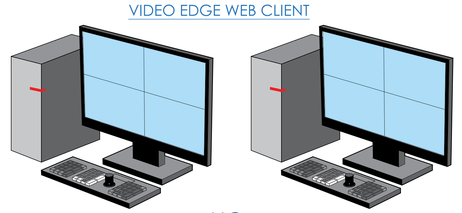
PRINCIPAL'S DESK
WEB CLIENT

CAMERA SWITCH 2

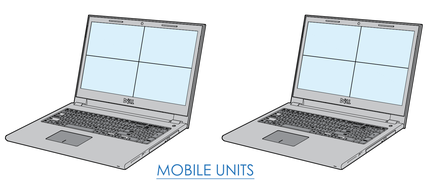
TYPICAL

C1 CAT-5 ; 10.100.1.134
C2 CAT-5 ; 10.100.1.135
C3 CAT-5 ; 10.100.1.1XX
C4 CAT-5 ; 10.100.1.137

VIDEO EDGE WEB CLIENT



HQ
1 LARKIN PLAZA



MOBILE UNITS

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8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
YONKERS PUBLIC SCHOOLS
565 WARBURTON AVE
YONKERS, NY 10701

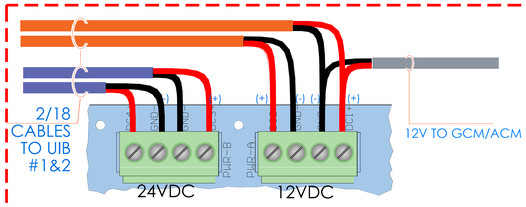
TITLE:
CCTV
ONE LINE DIAGRAM

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO:	DATE: 11/27/2019
XXXXXX	SCALE: N.T.S.
S.A. NO: XXXXXX	DRAWING NO: SE-303

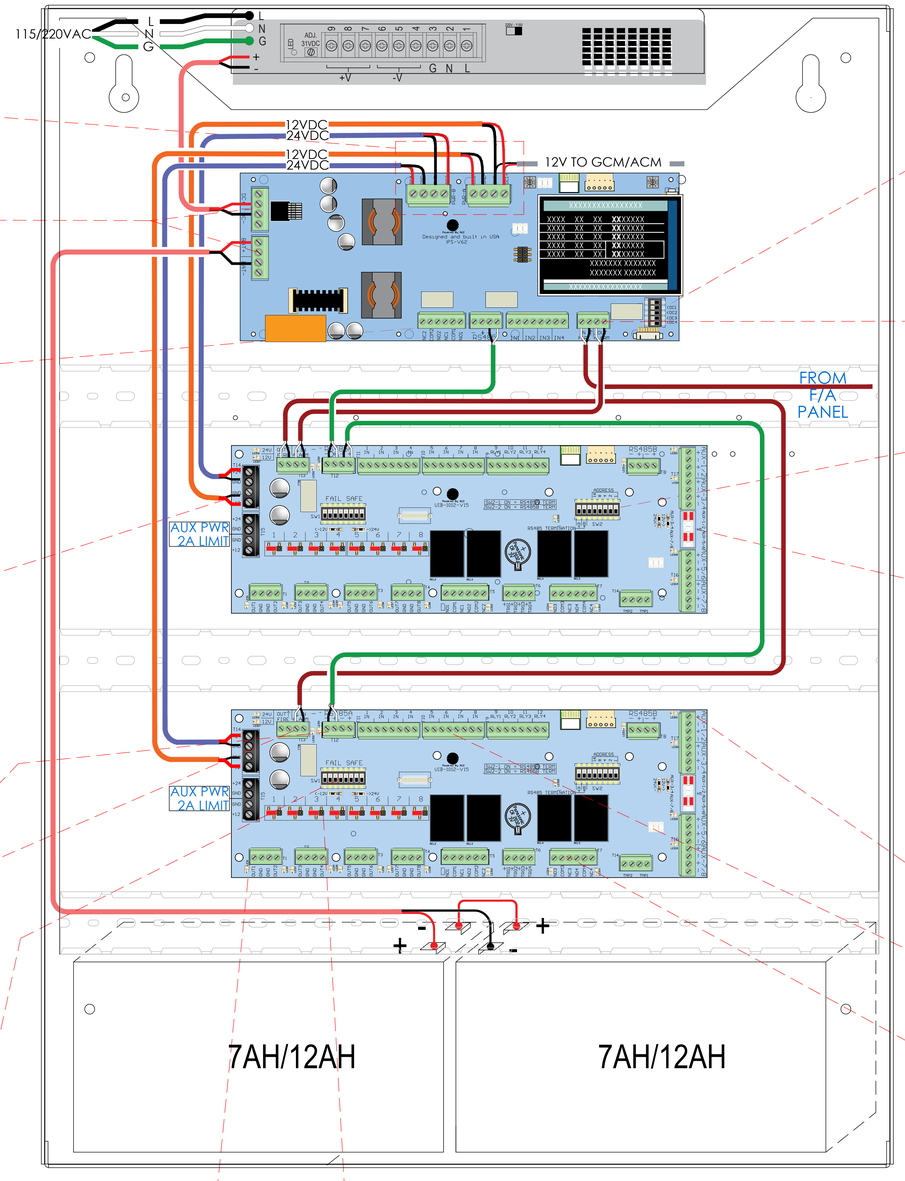
P-FORCE 1 - WIRING OF SPS/UIB

SPS OUT POWER CONNECTIONS

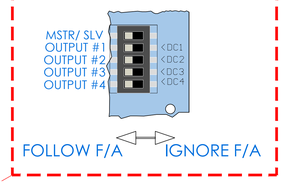


"12V & 24V" ARE FACTORY DEFAULTS. USER CAN MODIFY TO ANY VOLTAGE BETWEEN 9.5V - 26.5V

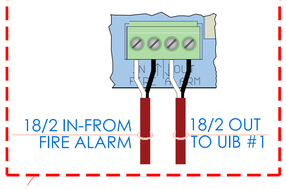
FOLLOW LOCAL AND NATIONAL ELECTRICAL WIRING CODES



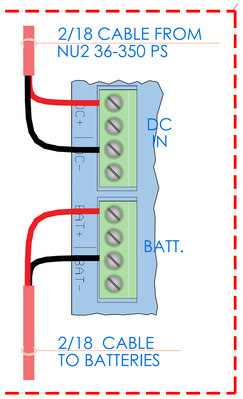
FIRE ALARM OUTPUT CONTROL



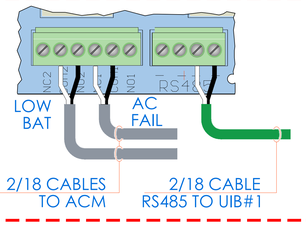
FIRE ALARM



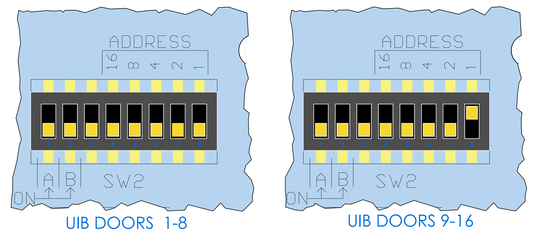
IN PWR & BAT CONNECTION



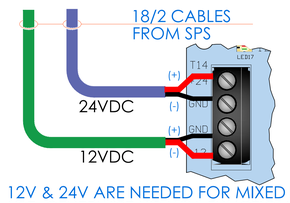
AC FAIL/LO BAT & RS485 COMM



DIP SWITCH SETTINGS FOR DOOR ADDRESSING

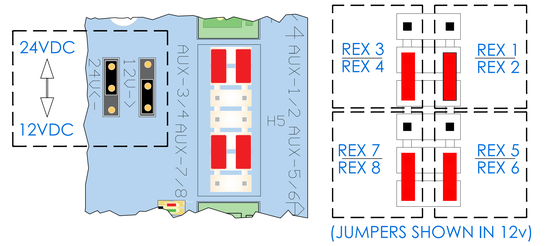


UIB INPUT 12/24VPOWER FROM SPS

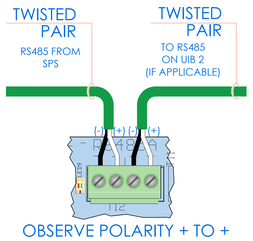


12V & 24V ARE NEEDED FOR MIXED LOCKS USE. OTHERWISE UIB WILL FUNCTION ON EITHER 12V OR 24V

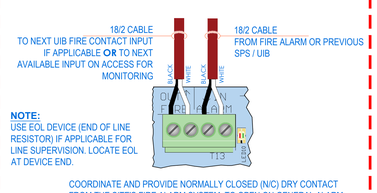
RTE POWER SETTINGS FOR DOORS 1 THRU 8



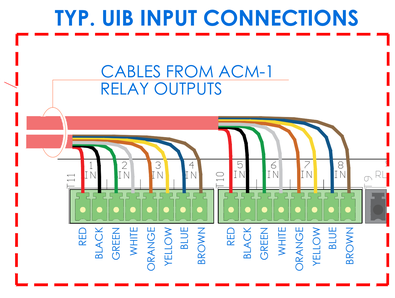
RS485 COMM



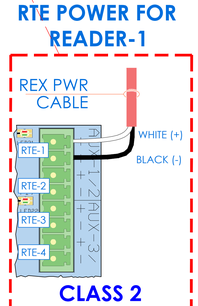
FIRE ALARM INTERFACE



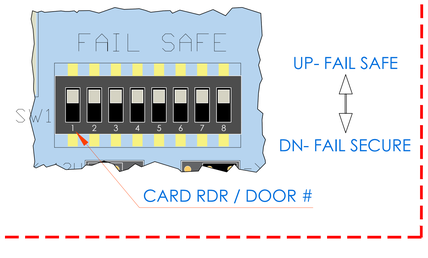
TYP. UIB INPUT CONNECTIONS



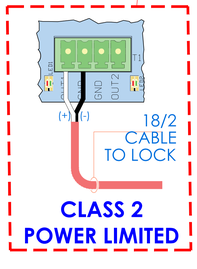
RTE POWER FOR READER-1



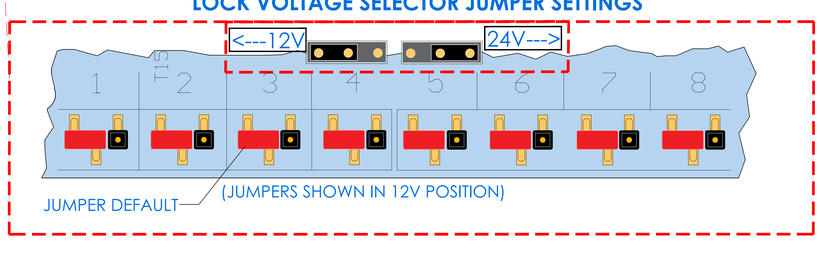
ELECTRIFIED LOCK SELECTOR FAIL SAFE/FAIL SECURE



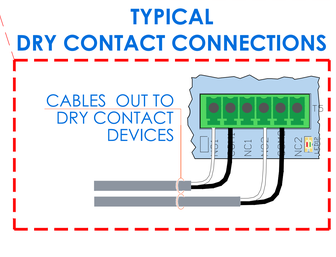
TYP. LOCK PWR - DOOR#1



LOCK VOLTAGE SELECTOR JUMPER SETTINGS



TYPICAL DRY CONTACT CONNECTIONS



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1/15/2020	REVISED-ISSUED FOR BID

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155 Lafayette Ave
White Plains, NY 10603

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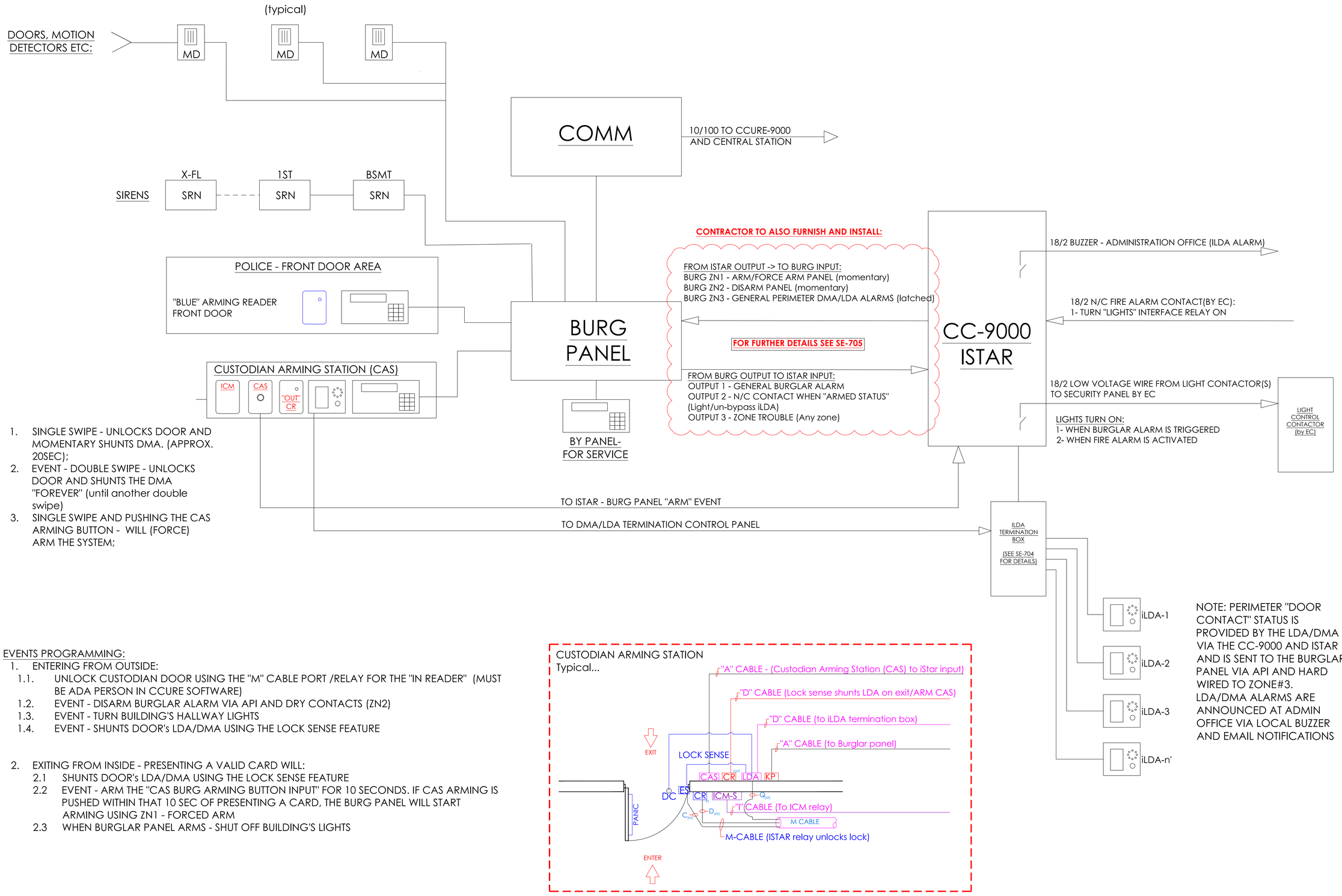
PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
iSTAR DRAWING
WIRING DIAGRAM

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX	DATE: 11/27/2019
S.A. NO: XXXXXX	SCALE: N.T.S.
	DRAWING NO: SE-700

BURGLAR & ACCESS - OVERALL SYSTEMS INTERFACES - ONE LINE



1. SINGLE SWIPE - UNLOCKS DOOR AND MOMENTARY SHUNTS DMA. (APPROX. 20SEC);
2. EVENT - DOUBLE SWIPE - UNLOCKS DOOR AND SHUNTS THE DMA "FOREVER" (until another double swipe)
3. SINGLE SWIPE AND PUSHING THE CAS ARMING BUTTON - WILL (FORCE) ARM THE SYSTEM;

NOTE: PERIMETER "DOOR CONTACT" STATUS IS PROVIDED BY THE LDA/DMA VIA THE CC-9000 AND ISTAR AND IS SENT TO THE BURGLAR PANEL VIA API AND HARD WIRED TO ZONE#3. LDA/DMA ALARMS ARE ANNOUNCED AT ADMIN OFFICE VIA LOCAL BUZZER AND EMAIL NOTIFICATIONS

EVENTS PROGRAMMING:

1. ENTERING FROM OUTSIDE:
   - 1.1. UNLOCK CUSTODIAN DOOR USING THE "M" CABLE PORT /RELAY FOR THE "IN READER" (MUST BE ADA PERSON IN CCURE SOFTWARE)
   - 1.2. EVENT - DISARM BURGLAR ALARM VIA API AND DRY CONTACTS (ZN2)
   - 1.3. EVENT - TURN BUILDING'S HALLWAY LIGHTS
   - 1.4. EVENT - SHUNTS DOOR's LDA/DMA USING THE LOCK SENSE FEATURE
2. EXITING FROM INSIDE - PRESENTING A VALID CARD WILL:
   - 2.1 SHUNTS DOOR's LDA/DMA USING THE LOCK SENSE FEATURE
   - 2.2 EVENT - ARM THE "CAS BURG ARMING BUTTON INPUT" FOR 10 SECONDS. IF CAS ARMING IS PUSHED WITHIN THAT 10 SEC OF PRESENTING A CARD, THE BURG PANEL WILL START ARMING USING ZN1 - FORCED ARM
   - 2.3 WHEN BURGLAR PANEL ARMS - SHUT OFF BUILDING'S LIGHTS

CUSTODIAN ARMING STATION
Typical...

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RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
BURGLAR & ACCESS INTERFACE

DESIGNED BY	DRAWN BY	CHECKED BY
I.T.	C.A.	E.M.

WORK ORDER NO:	DATE
XXXXXX	11/27/2019
S.A. NO:	SCALE: N.T.S.
XXXXXX	DRAWING NO: SE-701

ULTRA SE TYPICAL WIRING DIAGRAM - MOTION REX

READER CONNECTIONS

DOOR	iSTAR	
DOOR 1	RDR 1	ACM 1
DOOR 2	RDR 2	
DOOR 3	RDR 3	
DOOR 4	RDR 4	
DOOR 5	RDR 5	ACM 1
DOOR 6	RDR 6	
DOOR 7	RDR 7	
DOOR 8	RDR 8	
DOOR 9	RDR 1	ACM 2
DOOR 10	RDR 2	
DOOR 11	RDR 3	
DOOR 12	RDR 4	
DOOR 13	RDR 5	ACM 2
DOOR 14	RDR 6	
DOOR 15	RDR 7	
DOOR 16	RDR 8	

DOOR CONTACTS CONNECTIONS

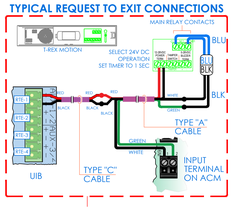
DOOR	INPUT	ACM
DOOR 1	IN 1	1
DOOR 2	IN 2	1
DOOR 3	IN 3	1
DOOR 4	IN 4	1
DOOR 5	IN 5	1
DOOR 6	IN 6	1
DOOR 7	IN 7	1
DOOR 8	IN 8	1
DOOR 9	IN 1	2
DOOR 10	IN 2	2
DOOR 11	IN 3	2
DOOR 12	IN 4	2
DOOR 13	IN 5	2
DOOR 14	IN 6	2
DOOR 15	IN 7	2
DOOR 16	IN 8	2

MOTION DETECTOR CONNECTIONS

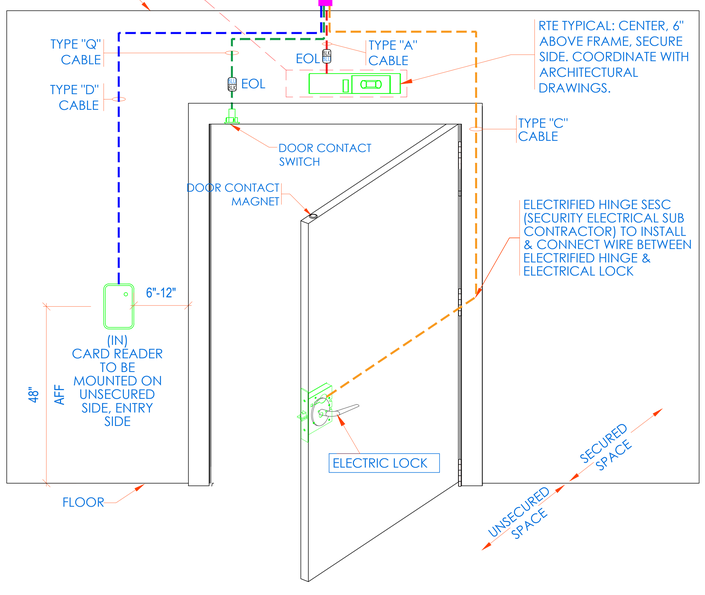
DOOR	INPUT	ACM
DOOR 1	IN 9	1
DOOR 2	IN 10	1
DOOR 3	IN 11	1
DOOR 4	IN 12	1
DOOR 5	IN 13	1
DOOR 6	IN 14	1
DOOR 7	IN 15	1
DOOR 8	IN 16	1
DOOR 9	IN 9	2
DOOR 10	IN 10	2
DOOR 11	IN 11	2
DOOR 12	IN 12	2
DOOR 13	IN 13	2
DOOR 14	IN 14	2
DOOR 15	IN 15	2
DOOR 16	IN 16	2

DOOR ELEVATION DIAGRAMMATICALLY SHOWN WITH ELECTRIC MORTISE LOCK AND REQUEST TO EXIT MOTION SENSOR

TYPICAL REQUEST TO EXIT CONNECTIONS



MOTION REX



TYPE "D" CABLE FOR **PROXIMITY READER** -8 CONDUCTOR OVERALL SHEILDED

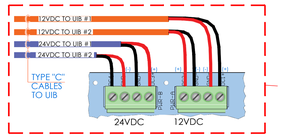
TYPE "C" CABLE FOR **LOCK** -2 COND / 18AWG UNSHIELDED (12-24 VDC LOCK PWR.)

TYPE "A" CABLE FOR **REX** 2 PAIR / 20AWG SHIELDED (12-24 VDC RTE PWR.)

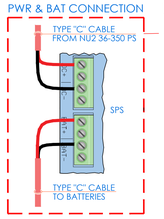
TYPE "Q" CABLE FOR **DOOR CONTACT** -2 COND / 20 AWG UNSHIELDED

TYPE "M" CABLE -16 COND

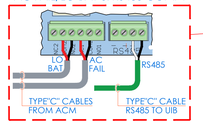
SPS POWER CONNECTIONS



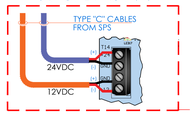
PWR & BAT CONNECTION



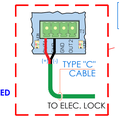
AC FAIL/LO BAT & RS485 COMM



UIB POWER FROM SPS



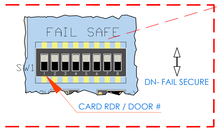
UIB LOCK PWR TO LOCK #1



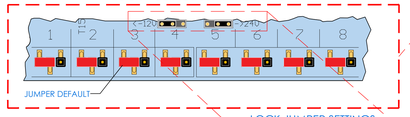
CLASS 2 POWER LIMITED

TO ANY DRY CONTACT DEVICES

FAIL SAFE/FAIL SECURE DIP SWITCH

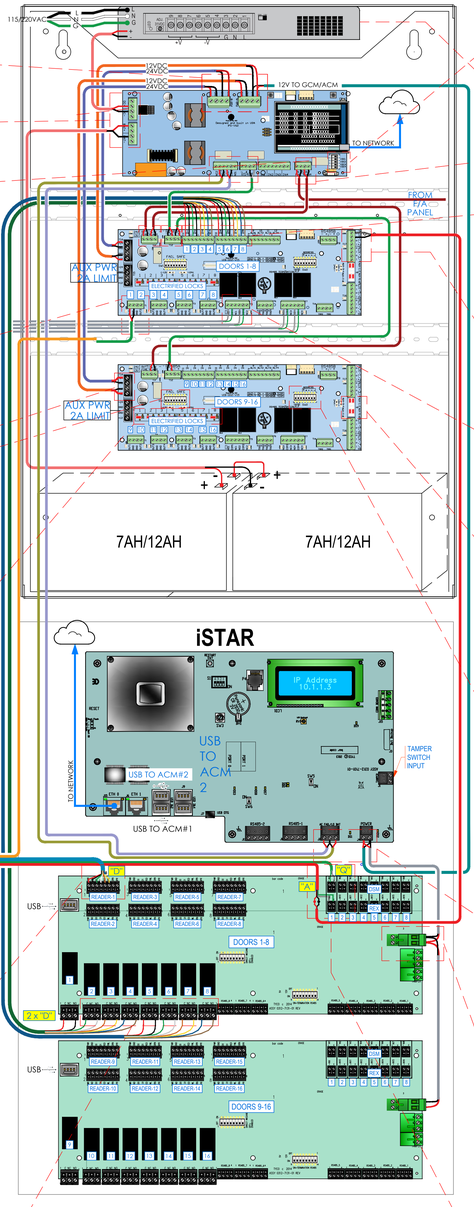


LOCK VOLTAGE JUMPER SETTING

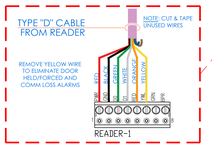


LOCK JUMPER SETTINGS

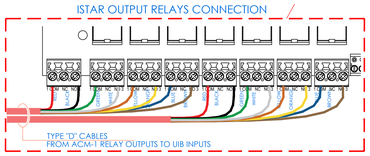
FOLLOW LOCAL AND NATIONAL ELECTRICAL WIRING CODES



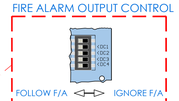
READER CONNECTIONS



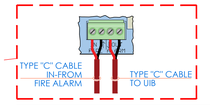
ISTAR OUTPUT RELAYS CONNECTION



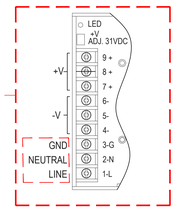
FIRE ALARM OUTPUT CONTROL



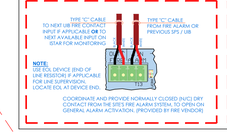
FIRE ALARM



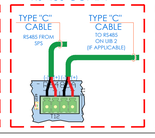
115VAC/220VAC



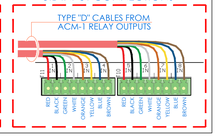
FIRE INTERFACE



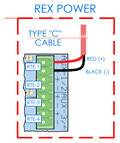
RS-485 COMM



UIB INPUT CONNECTIONS

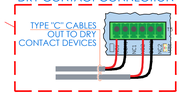


REX POWER

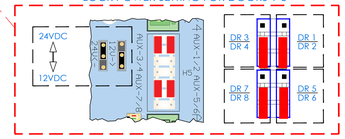


CLASS 2 POWER LIMITED

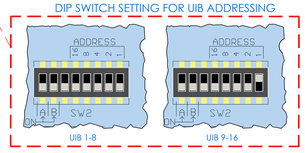
DRY CONTACT CONNECTION



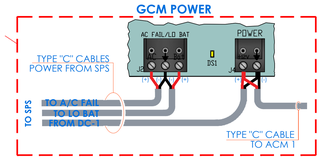
LOCK POWER SETTING FOR DOORS 1-8



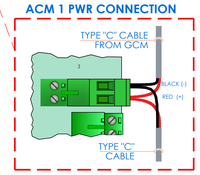
DIP SWITCH SETTING FOR UIB ADDRESSING



GCM POWER

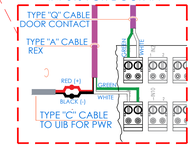


ACM 1 PWR CONNECTION



ACM #1 PWR CONNECTION

DOOR CONTACT & RTE INPUTS FOR DOOR #1



NOTE:
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- FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

NOTES:
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2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COLY BOE.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY MANAGER.
4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:

DATE	COMMENTS
1/10/2018	ISSUED FOR REVIEW / APPROVAL
2/18/2019	ISSUED FULL SET FOR APPROVAL
2/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

ITG Larson, inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS w/ MOTION REX

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO:	DATE: 11/27/2019
XXXXXX	SCALE: N.T.S.
S.A. NO: XXXXXX	DRAWING NO: SE-702-A

ULTRA SE TYPICAL WIRING DIAGRAM - REX LOCK

READER CONNECTIONS

DOOR	iSTAR	
DOOR 1	RDR 1	ACM 1
DOOR 2	RDR 2	
DOOR 3	RDR 3	
DOOR 4	RDR 4	
DOOR 5	RDR 5	ACM 1
DOOR 6	RDR 6	
DOOR 7	RDR 7	
DOOR 8	RDR 8	
DOOR 9	RDR 1	ACM 2
DOOR 10	RDR 2	
DOOR 11	RDR 3	
DOOR 12	RDR 4	
DOOR 13	RDR 5	ACM 2
DOOR 14	RDR 6	
DOOR 15	RDR 7	
DOOR 16	RDR 8	

DOOR CONTACTS CONNECTIONS

DOOR	INPUT	ACM
DOOR 1	IN 1	1
DOOR 2	IN 2	1
DOOR 3	IN 3	1
DOOR 4	IN 4	1
DOOR 5	IN 5	1
DOOR 6	IN 6	1
DOOR 7	IN 7	1
DOOR 8	IN 8	1
DOOR 9	IN 1	2
DOOR 10	IN 2	2
DOOR 11	IN 3	2
DOOR 12	IN 4	2
DOOR 13	IN 5	2
DOOR 14	IN 6	2
DOOR 15	IN 7	2
DOOR 16	IN 8	2

MOTION DETECTOR CONNECTIONS

DOOR	INPUT	ACM
DOOR 1	IN 9	1
DOOR 2	IN 10	1
DOOR 3	IN 11	1
DOOR 4	IN 12	1
DOOR 5	IN 13	1
DOOR 6	IN 14	1
DOOR 7	IN 15	1
DOOR 8	IN 16	1
DOOR 9	IN 9	2
DOOR 10	IN 10	2
DOOR 11	IN 11	2
DOOR 12	IN 12	2
DOOR 13	IN 13	2
DOOR 14	IN 14	2
DOOR 15	IN 15	2
DOOR 16	IN 16	2

DOOR ELEVATION DIAGRAMMATICALLY SHOWN WITH ELECTRIC MORTISE LOCK AND REQUEST TO EXIT MOTION SENSOR

SPS POWER CONNECTIONS

PWR & BAT CONNECTION

AC FAIL/LO BAT & RS485 COMM

UIB POWER FROM SPS

UIB LOCK PWR TO LOCK #1

FAIL SAFE/FAIL SECURE DIP SWITCH

LOCK VOLTAGE JUMPER SETTING

FOLLOW LOCAL AND NATIONAL ELECTRICAL WIRING CODES

iSTAR

FIRE ALARM OUTPUT CONTROL

115VAC/220VAC

FIRE ALARM

FIRE INTERFACE

RS-485 COMM

UIB INPUT CONNECTIONS

REX POWER

DRY CONTACT CONNECTION

LOCK POWER SETTING FOR DOORS 1-8

DIP SWITCH SETTING FOR UIB ADDRESSING

GCM POWER

ACM 1 PWR CONNECTION

ACM #1 PWR CONNECTION

READER CONNECTIONS

ISTAR OUTPUT RELAYS CONNECTION

DOOR CONTACT & RTE INPUTS FOR DOOR #1

REX IN LOCK

1900 BOX

TYPE "D" CABLE FOR **PROXIMITY READER** -8 CONDUCTOR OVERALL SHEILDED

TYPE "C" CABLE FOR **LOCK** -2 COND / 18AWG UNSHIELDED (12-24 VDC LOCK PWR.)

TYPE "A" CABLE FOR **REX** 2 PAIR / 20AWG SHIELDED (12-24 VDC RTE PWR.)

TYPE "Q" CABLE FOR **DOOR CONTACT** -2 COND / 20 AWG UNSHIELDED

TYPE "M" CABLE

PASS THROUGH NO SPLICES. FOLLOW ELECTRICAL CODES

TYPE "M" CABLE -16 COND

CEILING

TYPE "Q" CABLE

TYPE "D" CABLE

EOL

TYPE "A" CABLE

TYPE "C" CABLE

DOOR CONTACT SWITCH

DOOR CONTACT MAGNET

ELECTRIFIED HINGE SESC (SECURITY ELECTRICAL SUB CONTRACTOR) TO INSTALL & CONNECT WIRE BETWEEN ELECTRIFIED HINGE & ELECTRICAL LOCK

TYPE "A" CABLE FOR BUILT IN REX

6"-12"

(IN) CARD READER TO BE MOUNTED ON UNSECURED SIDE, ENTRY SIDE

48" AFF

ELECTRIC LOCK w/ BUILT IN REX

FLOOR

UNSECURED SPACE

SECURED SPACE

NOTE:
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- FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

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10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

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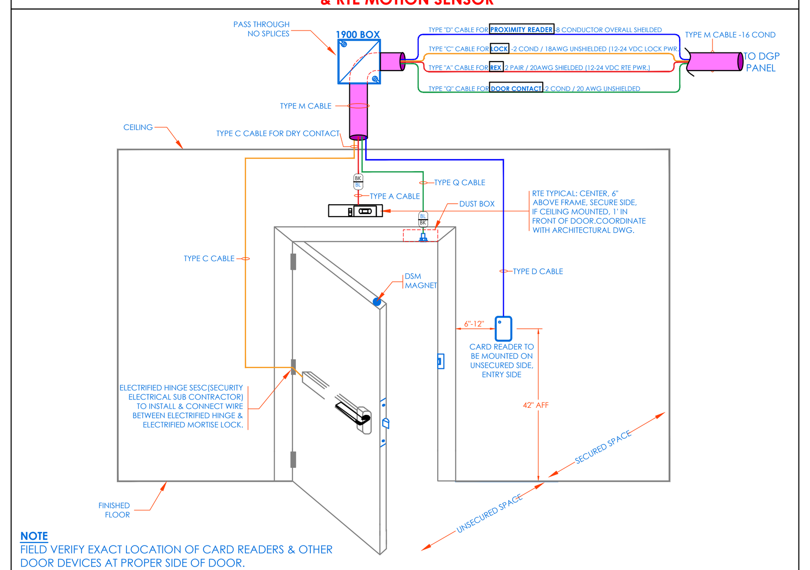
PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS w/ BUILT-IN REX

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO:	DATE:
XXXXXX	11/27/2019
S.A. NO:	SCALE: N.T.S.
XXXXXX	DRAWING NO: SE-702-B

SINGLE DOOR WITH CONTACT, CARD READER, ELECTRIFIED CRASH BAR (PWR FROM CLOSET) & RTE MOTION SENSOR

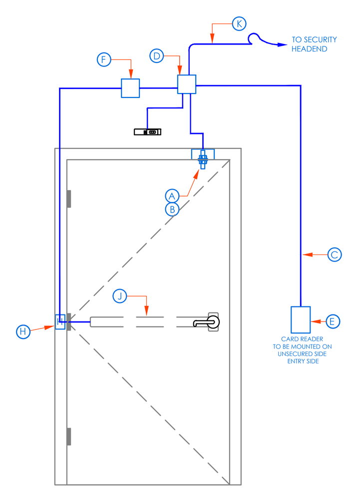


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

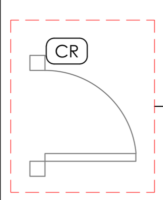
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (F) 1900 BOX-CRASH BAR HARDWARE POWER SUPPLY REQUIRE A 110VAC
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENUM CABLE ABOVE ACCESSIBLE CEILING.

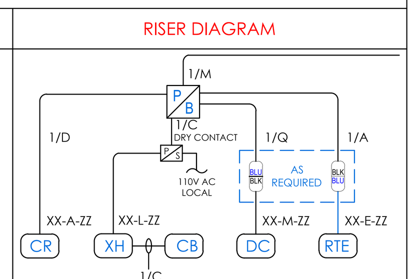


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR:	X-A-ZZ	1/D
DC:	X-M-ZZ	1/Q
RTE:	X-E-ZZ	1/A
CB :	X-L-ZZ	1/C
DTL: SE-XXX-DXX		"M" CABLE
IDF-XXX		

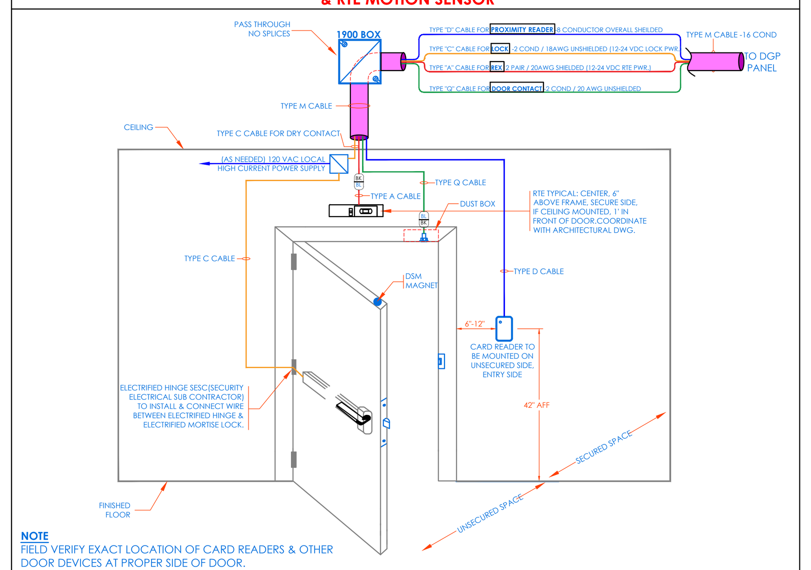
RISER DIAGRAM



Symbol on Dwgs: CR DC CB XH RTE

DTL: D01A

SINGLE DOOR WITH CONTACT, CARD READER, ELECTRIFIED CRASH BAR (LOCAL HIGH VOLTAGE P/S) & RTE MOTION SENSOR



NOTE
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CONDUIT AND WIRING ROUGH-IN LAYOUT

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- (F) 1900 BOX-CRASH BAR HARDWARE POWER SUPPLY REQUIRE A 110VAC
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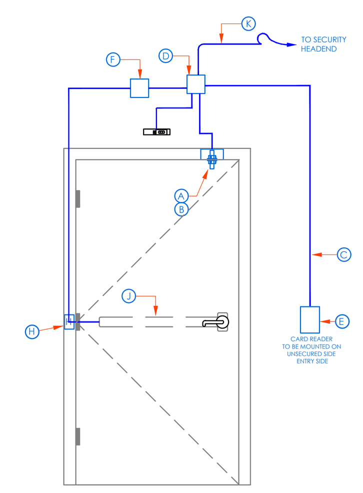
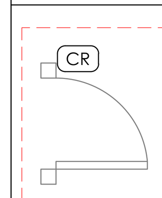
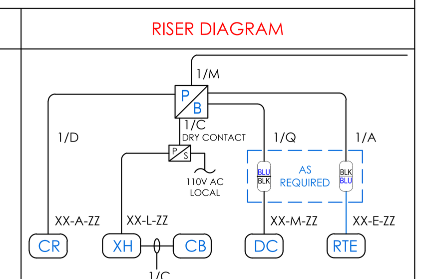


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR:	X-A-ZZ	1/D
DC:	X-M-ZZ	1/Q
RTE:	X-E-ZZ	1/A
CB :	X-L-ZZ	1/C
DTL: SE-XXX-DXX		"M" CABLE
IDF-XXX		

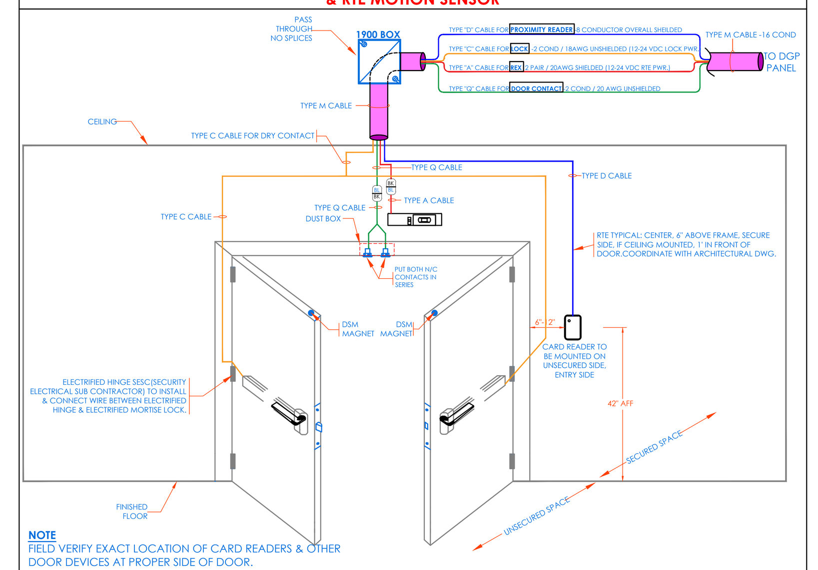
RISER DIAGRAM



Symbol on Dwgs: CR DC CB XH RTE

DTL: D01B

DOUBLE DOOR WITH DOUBLE CONTACTS, CARD READER, ELECTRIFIED CRASH BAR (PWR FROM CLOSET) & RTE MOTION SENSOR



NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

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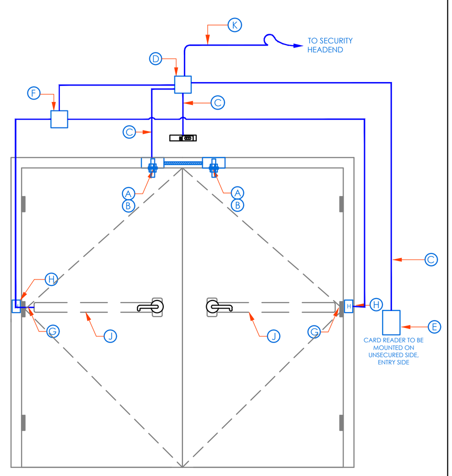
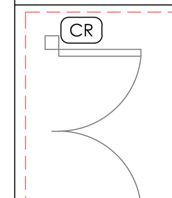
- (F) 1900 BOX-PANIC HARDWARE POWER SUPPLY REQUIRE A 110VAC
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED HINGE LOCK OR STRIKE; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENUM CABLE ABOVE ACCESSIBLE CEILING.

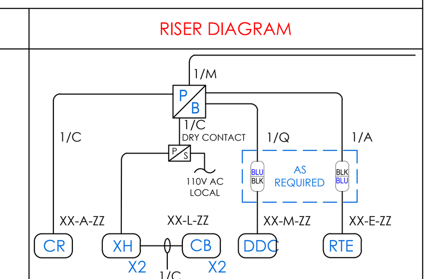


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR:	X-A-ZZ	1/D
DDC:	X-M-ZZ	1/Q
RTE:	X-E-ZZ	1/A
CB :	X-L-ZZ	1/C
DTL: SE-XXX-DXX		"M" CABLE
IDF-XXX		

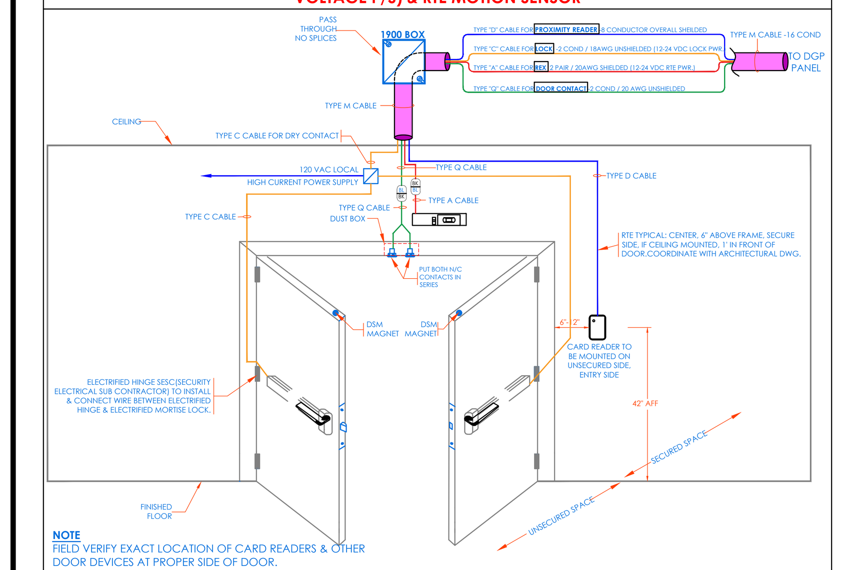
RISER DIAGRAM



Symbol on Dwgs: CR DDC CB XH RTE

DTL: D02A

DOUBLE DOOR WITH DOUBLE CONTACTS, CARD READER, ELECTRIFIED CRASH BAR (LOCAL HIGH VOLTAGE P/S) & RTE MOTION SENSOR

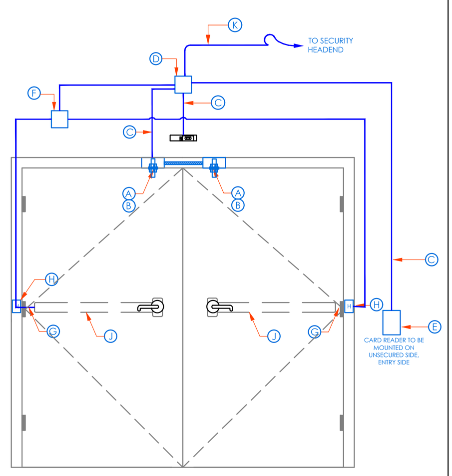


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

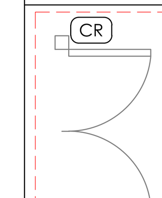
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (F) 1900 BOX-PANIC HARDWARE POWER SUPPLY REQUIRE A 110VAC
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED HINGE LOCK OR STRIKE; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENUM CABLE ABOVE ACCESSIBLE CEILING.

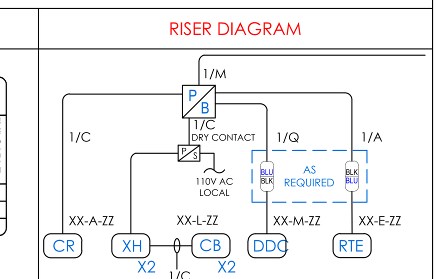


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR:	X-A-ZZ	1/D
DDC:	X-M-ZZ	1/Q
RTE:	X-E-ZZ	1/A
CB :	X-L-ZZ	1/C
DTL: SE-XXX-DXX		"M" CABLE
IDF-XXX		

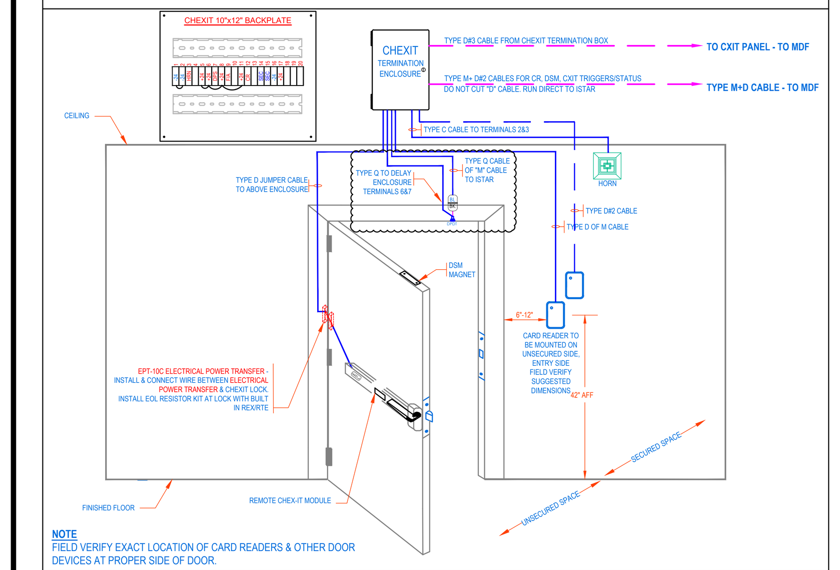
RISER DIAGRAM



Symbol on Dwgs: CR DDC CB XH RTE

DTL: D02B

SINGLE DOOR WITH CONTACT, CARD READER & CHEX-IT DEVICE

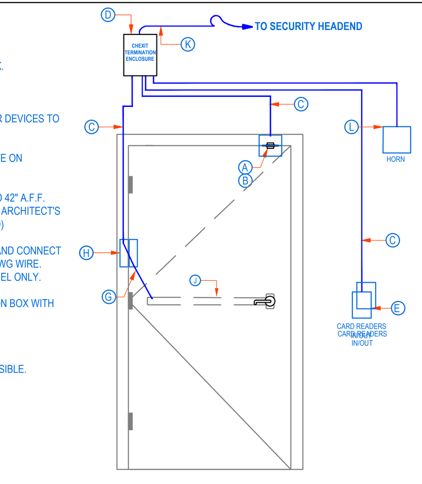


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

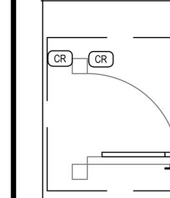
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL SENTROL DPST DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1080T MAGNET IN TOP OF DOOR.
- (C) PROVIDE AND INSTALL 3/4" FLEX CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 11"x12" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS. (FIELD COORDINATE DISTANCES AS NEEDED)
- (G) USE EXISTING PATHWAY FROM ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED MORTISE/PANIC LOCK, USING MULTI COND. 18-20 AWG WIRE. MAINTAIN DOOR RATING. FIELD DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) ELECTRIFIED POWER TRANSFER OR KNUCKLE AND WIRING JUNCTION BOX WITH LOCK POWER WIRING.
- (J) CHEX-IT HARDWARE.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE. PLENUM CABLE ABOVE ACCESSIBLE CEILING.
- (L) MOUNT 1900 BOX AS PER ARCHITECTURAL DIRECTION FOR HORN

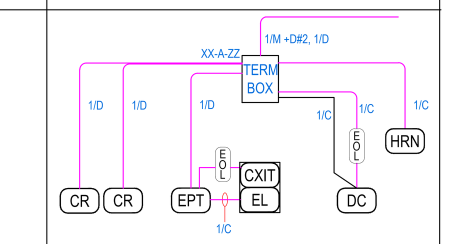


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR:	X-A-ZZ	1/D
DDC:	X-M-ZZ	1/Q
CXIT:	X-E-ZZ	1/A
CB :	X-L-ZZ	1/C
CR: XX-A-XX		1/D
DTL:		"M" CABLE
IDF-XXX		

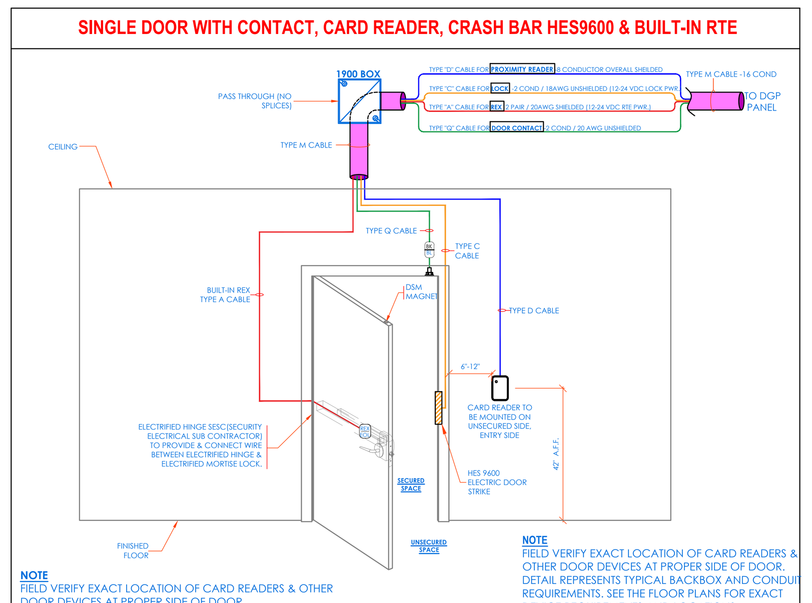
RISER DIAGRAM



Symbol on Dwgs: CR EPT CXIT DC

DTL: D03

SINGLE DOOR WITH CONTACT, CARD READER, CRASH BAR HES9600 & BUILT-IN RTE



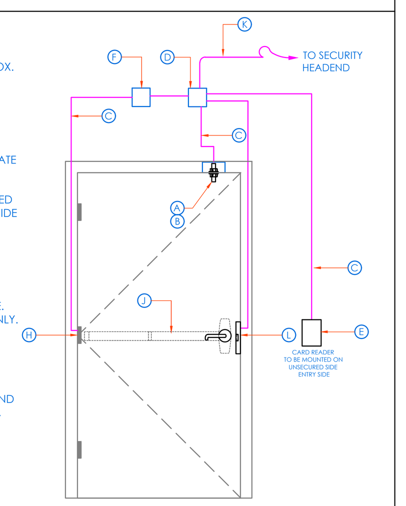
NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

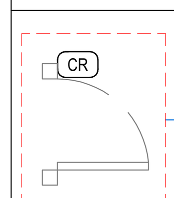
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) PROVIDE SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) PROVIDE SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) PROVIDE 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (F) 1900 BOX-CRASH BAR HARDWARE POWER SUPPLY REQUIRE A 110VAC
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) SURFACE MOUNT ELECTRIC STRIKE - HES 9600
- (J) CRASH BAR
- (K) PROVIDE 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENUM CABLE ABOVE ACCESSIBLE CEILING.
- (L) SURFACE MOUNT ELECTRIC STRIKE - HES 9600

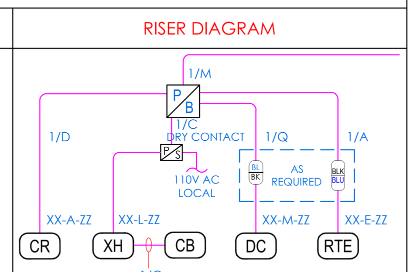


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR:	X-A-ZZ	1/D
DC:	X-M-ZZ	1/Q
RTE:	X-E-ZZ	1/A
CB :	X-L-ZZ	1/C
DTL: SE-XXX-DXX		"M" CABLE
IDF-XXX		

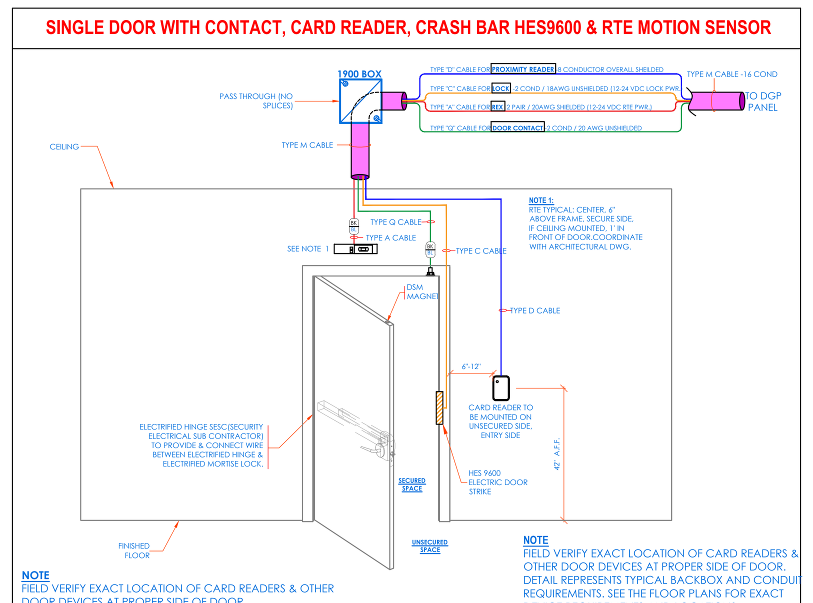
RISER DIAGRAM



Symbol on Dwgs: CR XH CB DC RTE

DTL: D04A

SINGLE DOOR WITH CONTACT, CARD READER, CRASH BAR HES9600 & RTE MOTION SENSOR



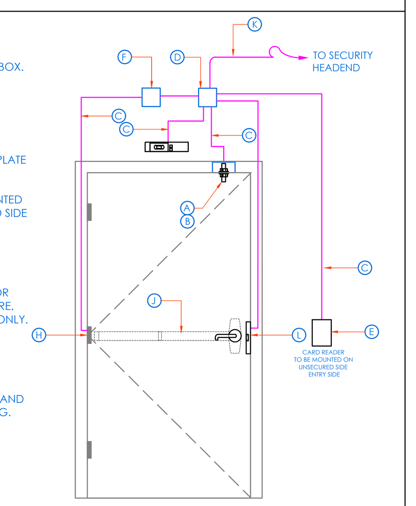
NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

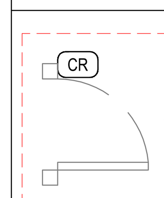
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) PROVIDE SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) PROVIDE SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) PROVIDE 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (F) 1900 BOX-CRASH BAR HARDWARE POWER SUPPLY REQUIRE A 110VAC
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO CRASH BAR; USING 2 COND 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) SURFACE MOUNT ELECTRIC STRIKE - HES 9600
- (J) CRASH BAR
- (K) PROVIDE 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENUM CABLE ABOVE ACCESSIBLE CEILING.
- (L) SURFACE MOUNT ELECTRIC STRIKE - HES 9600

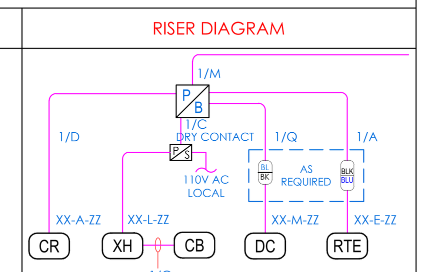


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR:	X-A-ZZ	1/D
DC:	X-M-ZZ	1/Q
RTE:	X-E-ZZ	1/A
CB :	X-L-ZZ	1/C
DTL: SE-XXX-DXX		"M" CABLE
IDF-XXX		

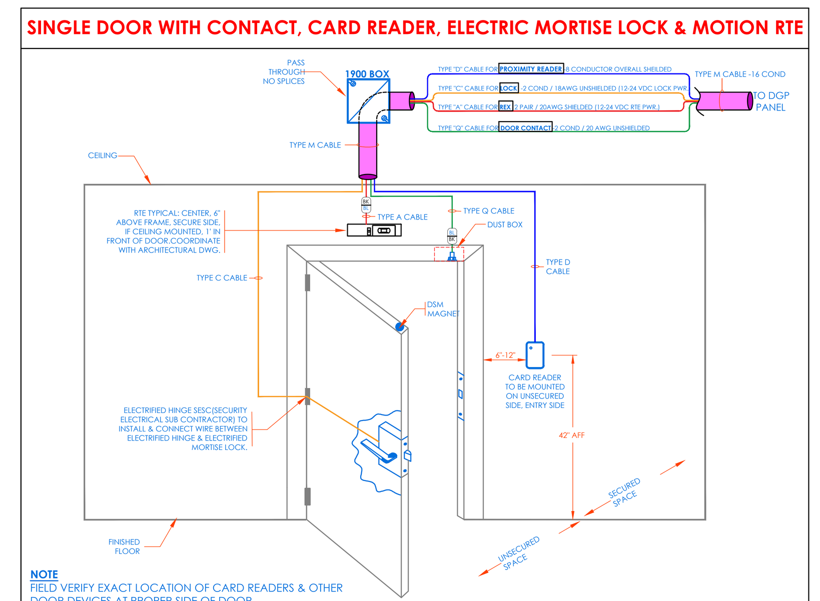
RISER DIAGRAM



Symbol on Dwgs: CR XH CB DC RTE

DTL: D04B

SINGLE DOOR WITH CONTACT, CARD READER, ELECTRIC MORTISE LOCK & MOTION RTE

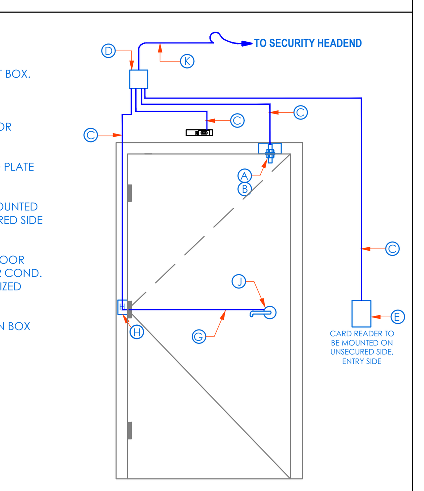


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

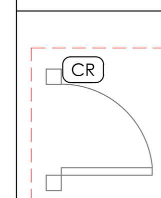
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE, USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) ELECTRIC MORTISE LOCKSET.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE. PLENUM CABLE ABOVE ACCESSIBLE CEILING.

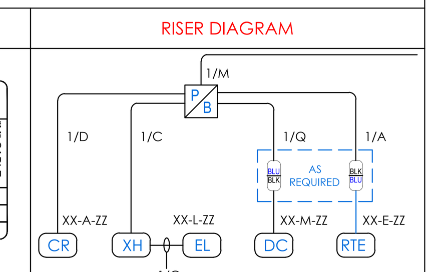


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR:	X-A-ZZ	1/D
DC:	X-M-ZZ	1/Q
RTE:	X-E-ZZ	1/A
EL:	X-L-ZZ	1/C
DTL: SE-XXX-DXX		"M" CABLE
IDF-XXX		

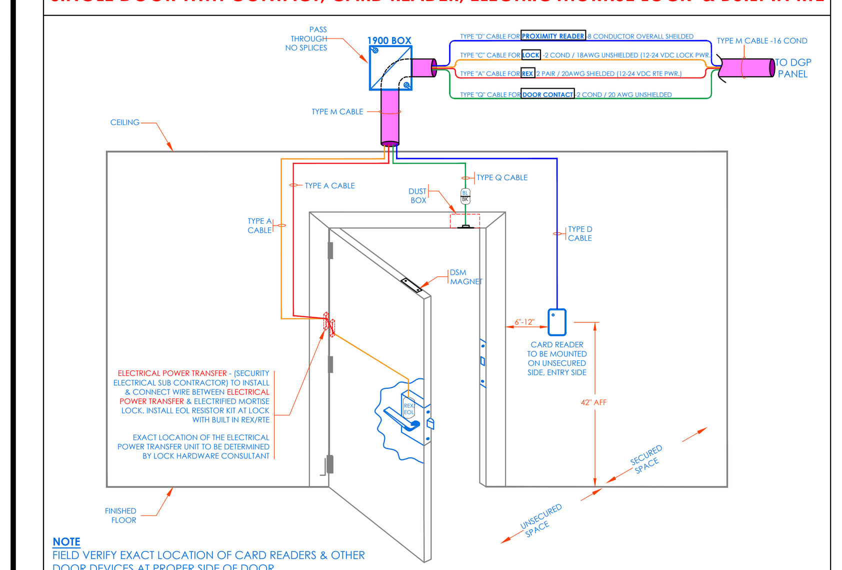
RISER DIAGRAM



Symbol on Dwgs: CR XH EL DC RTE

DTL: D05

SINGLE DOOR WITH CONTACT, CARD READER, ELECTRIC MORTISE LOCK & BUILT IN RTE

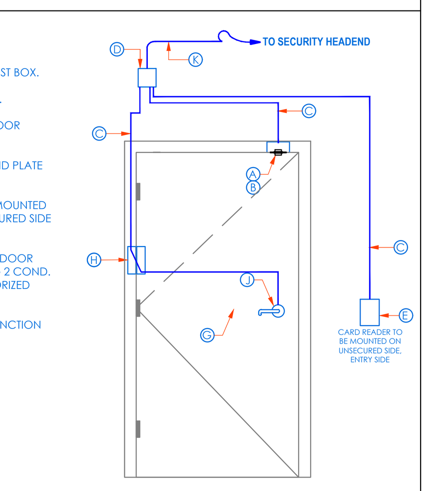


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

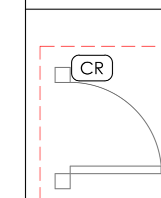
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE, USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) ELECTRIFIED POWER TRANSFER OR KNUCKLE AND WIRING JUNCTION BOX WITH LOCK POWER WIRING.
- (J) ELECTRIC MORTISE LOCKSET.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE. PLENUM CABLE ABOVE ACCESSIBLE CEILING.

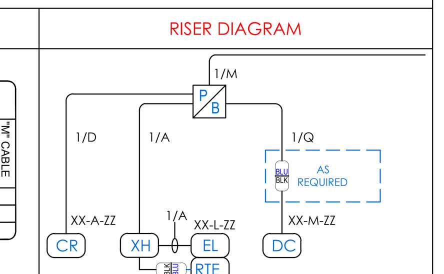


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR:	X-A-ZZ	1/D
DC:	X-M-ZZ	1/Q
RTE:	X-E-ZZ	1/A
EL:	X-L-ZZ	1/C
DTL: SE-XXX-DXX		"M" CABLE
IDF-XXX		

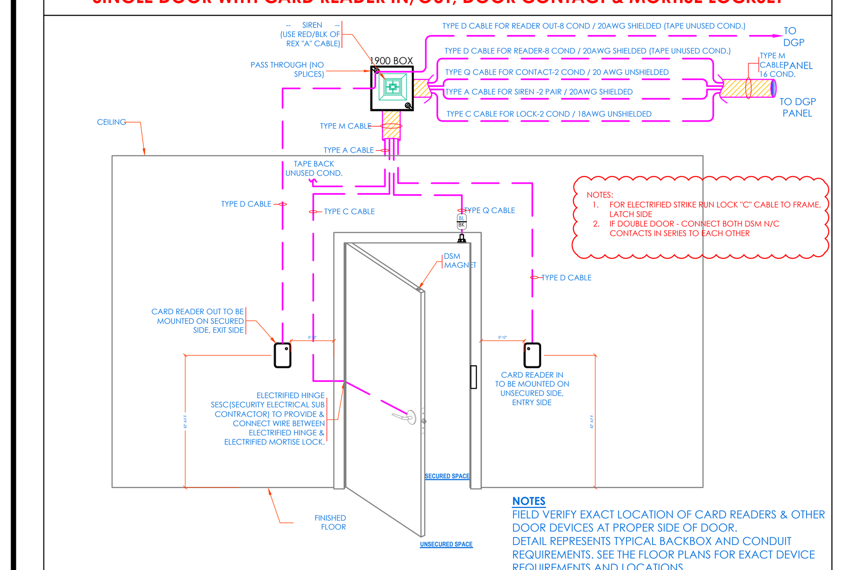
RISER DIAGRAM



Symbol on Dwgs: CR XH EL DC RTE

DTL: D06

SINGLE DOOR WITH CARD READER IN/OUT, DOOR CONTACT & MORTISE LOCKSET



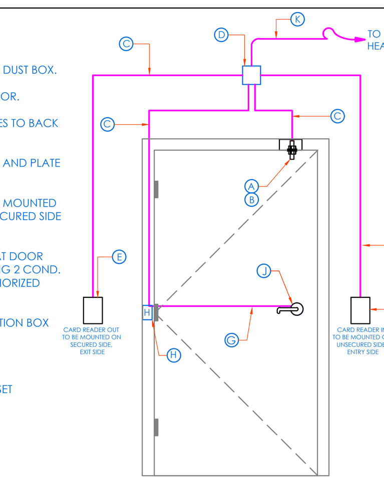
NOTES
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR. DETAIL REPRESENTS TYPICAL BACKBOX AND CONDUIT REQUIREMENTS. SEE THE FLOOR PLANS FOR EXACT DEVICE REQUIREMENTS AND LOCATIONS.

CONDUIT AND WIRING ROUGH-IN LAYOUT

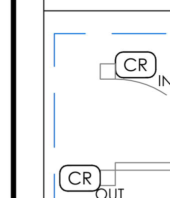
DOOR CONDUIT NOTES:

- (A) PROVIDE APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) PROVIDE ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D).
- (D) PROVIDE 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6"-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE, USING 2 COND. 18 AWG WIRE. MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) ELECTRIC MORTISE LOCKSET.
- (K) PROVIDE 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE. PLENUM CABLE ABOVE ACCESSIBLE CEILING.

NOTE:
CHECK FLOOR PLAN & COORDINATE WITH G.C. SOME EXIT CARD READERS ARE NOT OPPOSITE THE ENTRY CARD READER. BUT, ARE MOUNTED ON THE OPPOSITE SIDE OF THE DOOR.

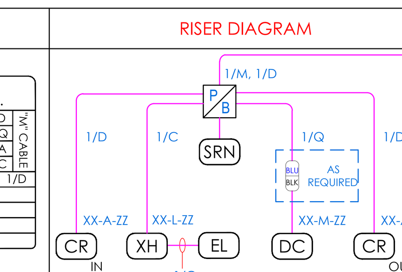


FLOOR PLAN DIAGRAM



DOUBLE C. R. DOOR w/ H.R.		
CR:	X-A-YY	1/D
DC:	X-M-ZZ	1/Q
SIREN		1/A
EL:	X-L-ZZ	1/C
CR OUT:	X-A-ZZ	1/D
DTL: SE-XXX-DXX		"M" CABLE
IDF-XXX		

RISER DIAGRAM



Symbol on Dwgs: CR (IN) XH EL DC SRN EL (OUT)

DTL: D07

NOTES:

1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COY BOE.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY MANAGER.
4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:

DATE	COMMENTS
1/10/2018	ISSUED FOR REVIEW / APPROVAL
2/18/2019	ISSUED FULL SET FOR APPROVAL
2/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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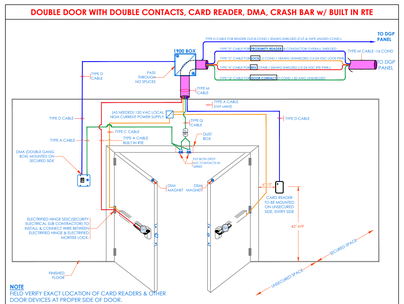
PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
SECURITY EQUIPMENT DETAIL 1
DOOR TYPICALS

DESIGNED BY	DRAWN BY	CHECKED BY
I.T.	C.A.	E.M.

WORK ORDER NO: XXXXXX
DATE: 11/27/2019
SCALE: N.T.S.
S.A. NO: XXXXXX
DRAWING NO: SE-703

DOUBLE DOOR WITH DOUBLE CONTACTS, CARD READER, DMA, CRASH BAR w/ BUILT IN RTE

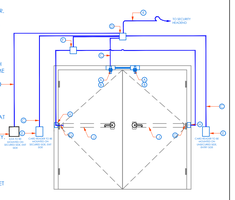


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

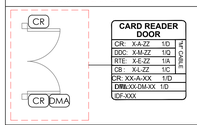
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL SENTROL 1078C RECESS SWITCH IN DOOR FRAME DUST BOX.
- (B) INSTALL SENTROL 1078C RECESS MAGNET IN TO TOP DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURE SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6'-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE AS PER ARCHITECT'S INTERIOR ELEVATIONS
- (F) 1900 BOX PANIC HARDWARE POWER SUPPLY REQUIRE A 110VAC
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED HINGE LOCK OR STRIKE: USING 2 COND 18 AWG WIRE, MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) CRASH BAR
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENUM CABLE ABOVE ACCESSIBLE CEILING.
- (L) INSTALL DOUBLE GANG BACK BOX FOR ILDA DEVICE.

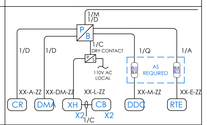


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR: X-A-ZZ	1/D	4C CABLE
DDC: X-M-ZZ	1/Q	18/2C CABLE
RTE: X-E-ZZ	1/A	
CB: X-L-ZZ	1/C	
CR: XX-A-XX	1/D	
DRB: XX-DM-XX	1/D	
IDF-XXX		

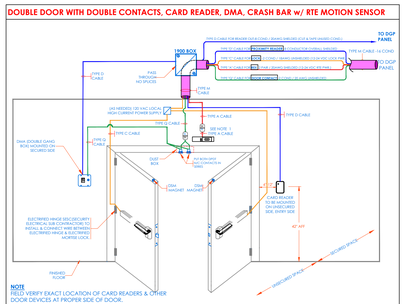
RISER DIAGRAM



Symbol on Dwgs: CR DMA XH CB DDC RTE

DTL: D08A

DOUBLE DOOR WITH DOUBLE CONTACTS, CARD READER, DMA, CRASH BAR w/ RTE MOTION SENSOR



NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

CONDUIT AND WIRING ROUGH-IN LAYOUT

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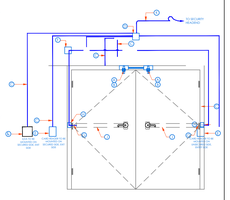

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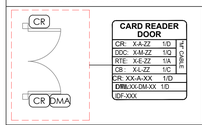
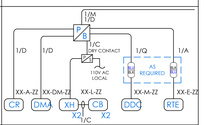


CARD READER DOOR		
CR: X-A-ZZ	1/D	4C CABLE
DDC: X-M-ZZ	1/Q	18/2C CABLE
RTE: X-E-ZZ	1/A	
CB: X-L-ZZ	1/C	
CR: XX-A-XX	1/D	
DRB: XX-DM-XX	1/D	
IDF-XXX		

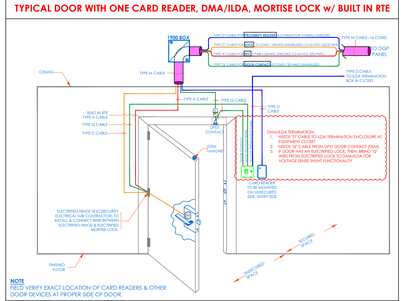
RISER DIAGRAM



Symbol on Dwgs: CR DMA XH CB DDC RTE

DTL: D08B

TYPICAL DOOR WITH ONE CARD READER, DMA/ILDA, MORTISE LOCK w/ BUILT IN RTE



NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

- (A) INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
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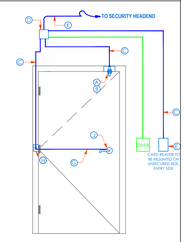
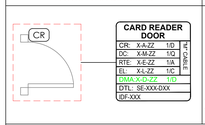
- (J) ELECTRIC MORTISE LOCKSET.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE.
PLENUM CABLE ABOVE ACCESSIBLE CEILING.

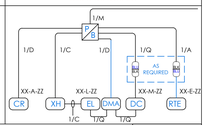


FLOOR PLAN DIAGRAM



CARD READER DOOR		
CR: X-A-ZZ	1/D	4C CABLE
DC: X-M-ZZ	1/Q	18/2C CABLE
RTE: X-E-ZZ	1/A	
EL: X-L-ZZ	1/C	
DMA-X-D-ZZ	1/D	
DTL: SE-XXX-DXX		
IDF-XXX		

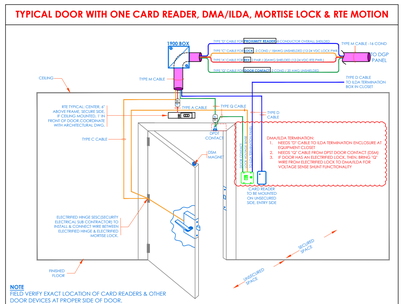
RISER DIAGRAM



Symbol on Dwgs: CR XH EL DC RTE DMA

DTL: D09A

TYPICAL DOOR WITH ONE CARD READER, DMA/ILDA, MORTISE LOCK & RTE MOTION



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CONDUIT AND WIRING ROUGH-IN LAYOUT

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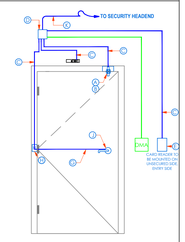
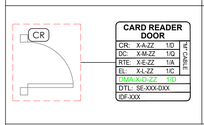


FLOOR PLAN DIAGRAM



CARD READER DOOR		
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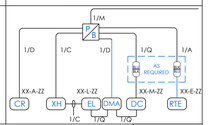
RTE: X-E-ZZ	1/A	
EL: X-L-ZZ	1/C	
DMA-X-D-ZZ	1/D	
DTL: SE-XXX-DXX		
IDF-XXX		

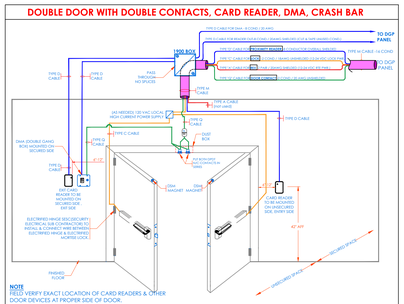
RISER DIAGRAM



Symbol on Dwgs: CR XH EL DC RTE DMA

DTL: D09B

DOUBLE DOOR WITH DOUBLE CONTACTS, CARD READER, DMA, CRASH BAR



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CONDUIT AND WIRING ROUGH-IN LAYOUT

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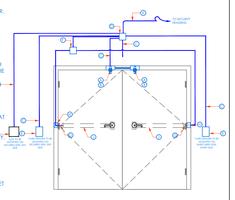
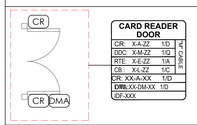
- (L) INSTALL DOUBLE GANG BACK BOX FOR ILDA DEVICE.



FLOOR PLAN DIAGRAM



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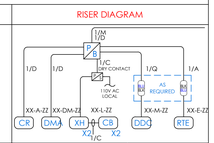
DDC: X-M-ZZ	1/Q	18/2C CABLE
RTE: X-E-ZZ	1/A	
CB: X-L-ZZ	1/C	
CR: XX-A-XX	1/D	
DRB: XX-DM-XX	1/D	
IDF-XXX		

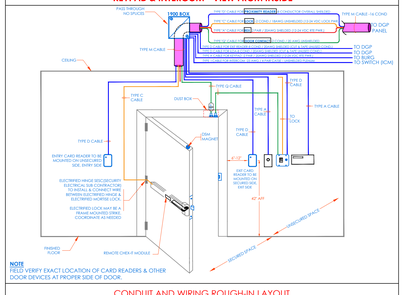
RISER DIAGRAM



Symbol on Dwgs: CR DMA XH CB DDC RTE

DTL: D10

CUSTODIAN ARMING STATION-SINGLE DOOR WITH CONTACT, CARD READER, ILDA, BURG KEYPAD & INTERCOM - VIEW FROM INSIDE



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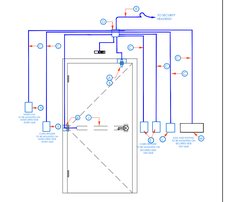
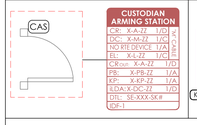
- (M) INSTALL A TRIPLE GANG BOX FOR THE BURG KEYPAD
- (N) INSTALL A TRIPLE GANG BOX FOR THE INTERCOM

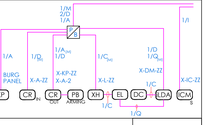


FLOOR PLAN DIAGRAM



CUSTODIAN ARMING STATION		
CR: X-A-ZZ	1/D	4C CABLE
DDC: X-M-ZZ	1/Q	18/2C CABLE
NO RTE DEVICE	1/A	
EL: X-L-ZZ	1/C	
CR: XX-A-XX	1/D	
PB: X-PB-ZZ	1/A	
EP: X-KP-ZZ	1/A	
ILDA: X-DC-ZZ	1/D	
DTL: SE-XXX-SX#		
IDF-1		

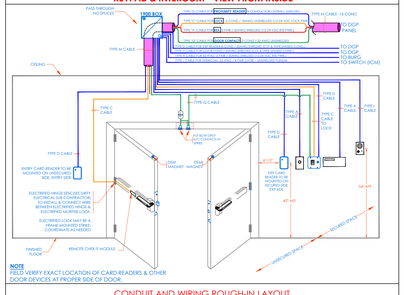
RISER DIAGRAM



Symbol on Dwgs: KP CR IN CR OUT PB ARMING XH EL DC ILDA ICM

DTL: D11

CUSTODIAN ARMING STATION-DOUBLE DOOR WITH CONTACT, CARD READER, ILDA, BURG KEYPAD & INTERCOM - VIEW FROM INSIDE



NOTE
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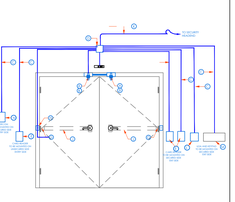
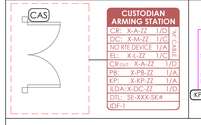
- (K) INSTALL 1" CONDUIT TO LOCAL IDF CLOSET WHERE ACCESSIBLE AND IN BASEMENT AREAS. PLENUM CABLE ABOVE ACCESSIBLE CEILING.
- (L) INSTALL A DOUBLE GANG BOX FOR THE ILDA
- (M) INSTALL A TRIPLE GANG BOX FOR THE BURG KEYPAD
- (N) INSTALL A TRIPLE GANG BOX FOR THE INTERCOM

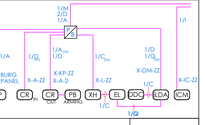


FLOOR PLAN DIAGRAM



CUSTODIAN ARMING STATION		
CR: X-A-ZZ	1/D	4C CABLE
DDC: X-M-ZZ	1/Q	18/2C CABLE
NO RTE DEVICE	1/A	
EL: X-L-ZZ	1/C	
CR: XX-A-XX	1/D	
PB: X-PB-ZZ	1/A	
EP: X-KP-ZZ	1/A	
ILDA: X-DC-ZZ	1/D	
DTL: SE-XXX-SX#		
IDF-1		

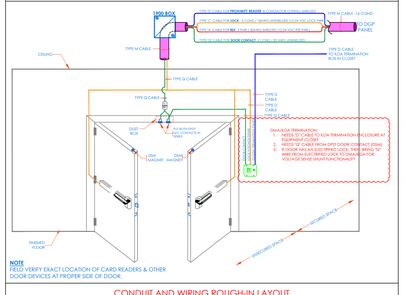
RISER DIAGRAM



Symbol on Dwgs: KP CR IN CR OUT PB ARMING XH EL DDC ILDA ICM

DTL: D12

TYPICAL DOUBLE DOOR WITH DMA/ILDA

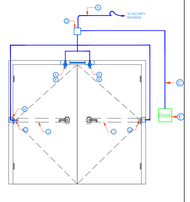


NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

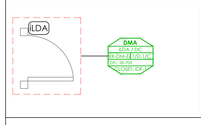
CONDUIT AND WIRING ROUGH-IN LAYOUT

DOOR CONDUIT NOTES:

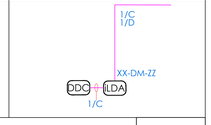
- (A) INSTALL APPROPRIATE DOOR CONTACT IN DOOR FRAME DUST BOX.
- (B) INSTALL ASSOCIATED MATCHING MAGNET IN TOP OF DOOR.
- (C) PROVIDE AND INSTALL 3/4" CONDUIT WITH WIRING FROM DOOR DEVICES TO BACK BOX (D) .
- (D) INSTALL 4 11/16" SQ. BACKBOX, WITH PROPER EXTENSION AND PLATE ON SECURED SIDE OF DOOR.
- (E) PROVIDE 2-1/2" DEEP SINGLE GANG MASONRY BOX FLUSH MOUNTED 42" A.F.F. AND 6'-12" AWAY FROM DOOR FRAME ON UNSECURED SIDE OR PER ARCHITECT'S INTERIOR ELEVATIONS
- (G) USE EXISTING HOLE FROM CENTER OF ELECTRIFIED HINGE AT DOOR SIDE AND CONNECT TO ELECTRIFIED LOCK OR STRIKE, USING 2 COND. 18 AWG WIRE, MAINTAIN DOOR RATING DRILLING BY AUTHORIZED PERSONNEL ONLY.
- (H) POWER TRANSFER HINGE OR KNUCKLE AND WIRING JUNCTION BOX W/LOCK POWER WIRING.
- (J) ELECTRIC MORTISE LOCKSET.
- (K) INSTALL 1" CONDUIT TO LOCAL SECURITY HEADEND CLOSET ACCESSIBLE.
PLENUM CABLE ABOVE ACCESSIBLE CEILING.



FLOOR PLAN DIAGRAM



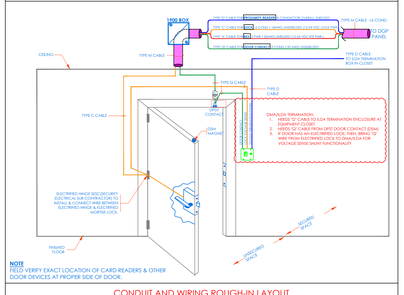
RISER DIAGRAM



Symbol on Dwgs: CR XH EL DC RTE DMA

DTL: D13

TYPICAL SINGLE DOOR WITH DMA/ILDA



NOTE
FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

CONDUIT AND WIRING ROUGH-IN LAYOUT

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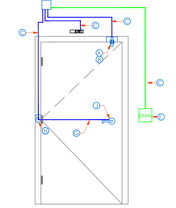
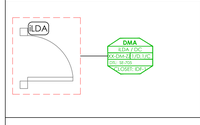
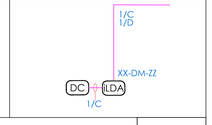


FLOOR PLAN DIAGRAM



RISER DIAGRAM



Symbol on Dwgs: CR XH EL DC RTE DMA

DTL: D14

NOTES:

1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COLY BOE.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY MANAGER.
4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:

DATE	COMMENTS
7/10/2018	ISSUED FOR REVIEW / APPROVAL
2/18/2019	ISSUED FULL SET FOR APPROVAL
2/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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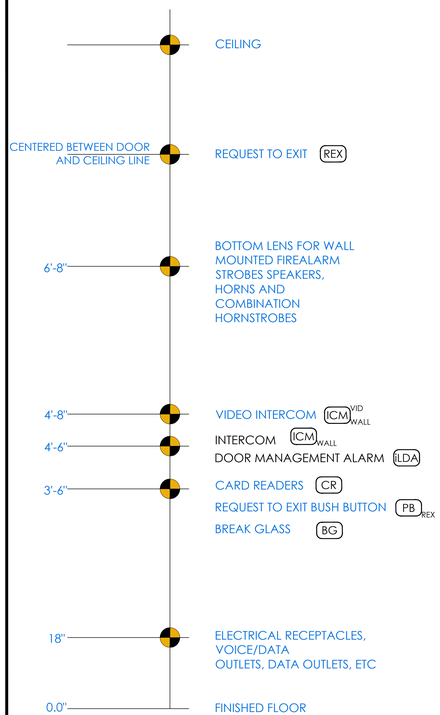
PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
SECURITY EQUIPMENT DETAIL 1A
DOOR TYPICALS

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX	DATE: 11/27/2019
S.A. NO: XXXXXX	SCALE: N.T.S.
	DRAWING NO: SE-703A

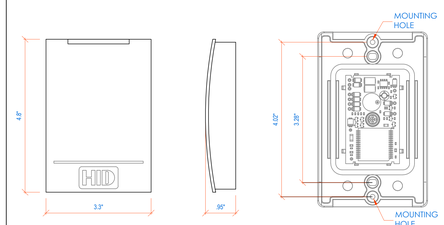
MOUNTING HEIGHT NOTES

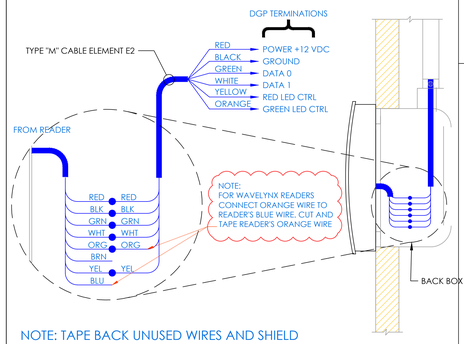


NOTE:
FIELD VERIFY WITH LOCAL ADA REQUIREMENTS

HID RP40-MULTI CLASS CARD READER

DEVICE TERMINATION AND DIMENSION



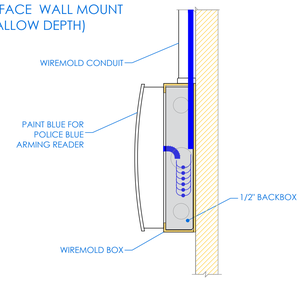


NOTE: TAPE BACK UNUSED WIRES AND SHIELD

SPECIFICATIONS

Typical maximum* read range	: ProxCard II card - up to 5.5" (14 cm) ISOProx II card - up to 5" (12.7 cm) DuoProx II card - up to 5" (12.7 cm) Smart ISO/DuoProx cards - up to 5" (12.7 cm) Proximity & MIFARE card - up to 5" (12.7 cm) ProxCard Plus card - up to 1.5" (3.8 cm) ProxKey II key fob - up to 2" (5.1 cm) Microprox Tag - up to 3" (7.6 cm) *Depending on local installation conditions.
Dimensions	: 4.70" x 3.00" x 0.68" (11.9 x 7.6 x 1.7 cm)
Material	: Polycarbonate UL 94
Power supply	: 5-16 VDC Linear power supplies are recommended.
Current requirements	: Average: 30 mA (5 VDC); 20 mA (12 VDC) Peak: 110 mA (5 VDC); 115 mA (12 VDC)
Operating temperature	: -22° to 150° F (-30° to 65° C)
Operating humidity	: 0-95% relative humidity non-condensing
Weight	: 3.3 oz. (94 gm)
Transmit frequency	: 125 kHz
Excite frequency	: 125 kHz
Cable distance	: Wiegand interface: 500 feet (150 m) Clock-and-data interface: 50 feet (15 m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent. Additional conductors may be required for LED or beeper control.

SURFACE WALL MOUNT (SHALLOW DEPTH)

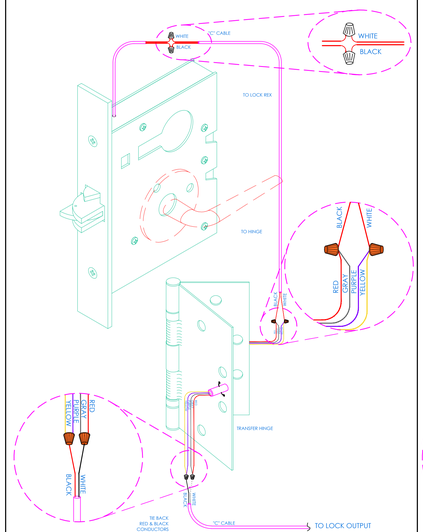


Symbol on Dwgs: (CR) AND (CR POLICE BLUE ARMING)

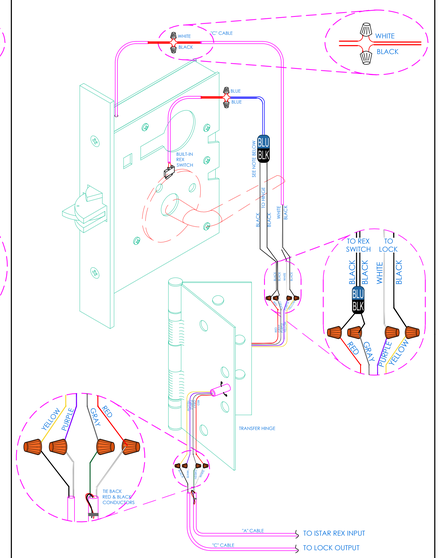
DTL: A01

SCHLAGE - ELECTRIFIED L SERIES

LOCK ONLY



LOCK w/ BUILT IN REX



FOR LOCKS EQUIPPED WITH BUILT IN NORMALLY OPEN (N/O) REX SWITCH - ADD EOL RESISTOR, CONNECT GRI EOL KIT SUCH AS THE BLUE WIRES CONNECT TO THE LOCK AND BLACK WIRES CONNECT TO WH/GR OF "A" CABLE

Symbol on Dwgs: EL XH

DTL: A03

NOTES:
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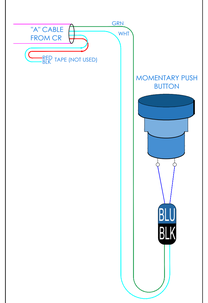
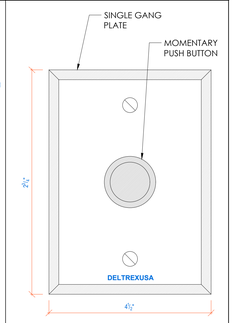
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

MOMENTARY PUSH BUTTON w/ SINGLE GANG PLATE

DEVICE CONNECTION



DEVICE DETAILS

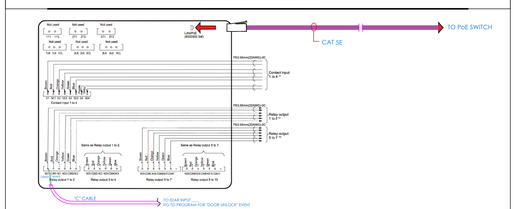


Symbol on Dwgs: CAS

DTL: A05

AIPHONE INTERCOM RELAY P/N: IXW-MA

DEVICE CONNECTION

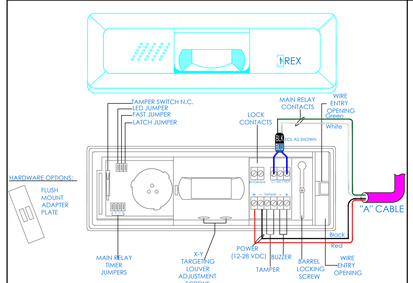


Symbol on Dwgs: ICM

DTL: A06

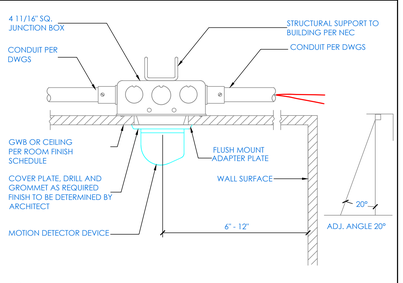
T-REX EXIT DETECTOR

DEVICE DETAIL



NOTE:
USE EOL DEVICE (END OF LINE RESISTOR) AS INDICATED ON RISER DIAGRAM IF APPLICABLE FOR LINE SUPERVISION. LOCATE EOL AT DEVICE END

CEILING MOUNTING

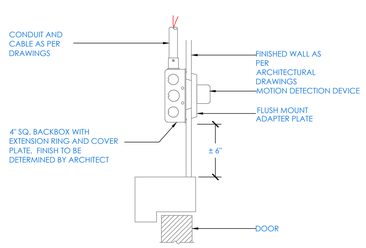


NOTE:
MOUNT REQUEST TO EXIT MOTION DETECTOR IN CEILING, PARALLEL TO DOOR, WHEN DOOR IS IN THE CLOSED POSITION.

SPECIFICATIONS

Detector Type	: Passive Infrared
Filter Technology	: Digital Signal Processing (DSP)
Detector Lens	: Curtain Type Fresnel Lens
Detection Range	: One hand: 3m(10ft) Whole Body :6m(20ft)
Power Consumption	: 12-28 VDC,50mA
Piezo Buffer	: 90 dB at 28VDC,5-28 VDC ,20mA(XL & XL2 only)
Main Relay contacts	: SPDT,1A max. @30VDC max
Main relay recycle time	: Adjustable,1/2 to 60 seconds
Main relay recycle time	: Fixed,3/4 second off
Lock control relay	: Available on LT2 and XL2 models only, solid state relay,N.C: 2A max.@30VDC,Timed at 2seconds fixed
Tamper Switch	: N.C: 100mA max.@30 VDC max.
Dimensions (H.W.D.)cm Dimensions (H.W.D.)in.	: 19x4.5 x4.75 : 7-1/8x1-3/4x1-7/8
Indicator light	: Red/Green LED
Certifications	: UL294,CE,FCC

WALL MOUNTING



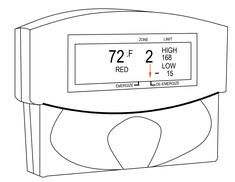
NOTE:
DEVICE CENTERLINE SHALL MATCH CENTERLINE OF DOOR

Symbol on Dwgs: (MS) S= SURFACE

DTL: A02

WINLAND
EA-200-12 & EA-200-24 TEMPERATURE SENSOR

DEVICE DETAIL



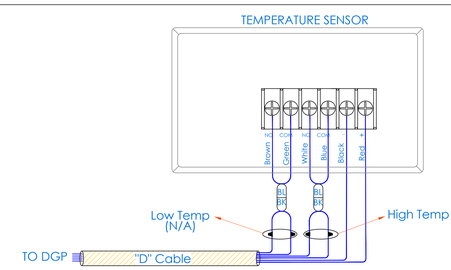
EA200-12 & EA-200-24

SPECIFICATIONS

DUAL ZONE MONITORING WITH ON-BOARD TEMPERATURE SENSOR & INPUTFOR ONE OPTIONAL REMOTE TEMPERATURE, HUMIDITY OR WATER SENSOR.

Dimensions:	6.0" x 4.75 x 1.25
Weight: .	55 lb
Lo & Hi Limit Adjust Range:	-58 to 299° F
Input Voltage: EA200-12:	12 VDC @ <120mA
Input Voltage: EA200-24:	24 VDC @ <120mA
Remote sensor inputs:	1
On-Board sensor:	1
Unit Operating Range:	+32 to 122° F
Alarm Outputs:	2 - SPDT Relays
(Configurable)	
Auxiliary Audible Alarm Output:	1 - SPDT Relays
(Non-configurable)	
Case Material:	ABS

TERMINATION



Symbol on Dwgs: (TMP)

DTL: A04

ISSUED FOR:

DATE	COMMENTS
7/10/2018	ISSUED FOR REVIEW / APPROVAL
2/18/2019	ISSUED FULL SET FOR APPROVAL
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8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

ITG Larson,inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
SECURITY EQUIPMENT DETAIL 2
ACCESS DEVICE TYPICALS

DESIGNED BY	DRAWN BY	CHECKED BY
I.T.	C.A.	E.M.

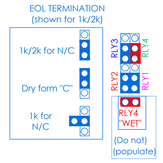
WORK ORDER NO: XXXXXX
DATE: 11/27/2019
SCALE: N.T.S.
S.A. NO: XXXXXX
DRAWING NO: SE-704

NU2 SYSTEMS - ILDA
INTELLIGENT LOCAL DOOR ALARM

DEVICE DETAIL

JUMPER SETTINGS

BUILT IN EOL TERMINATION JUMPER SETTINGS



SPECIFICATIONS

Model: INTELLIGENT LOCAL DOOR ALARM

Input Voltage: Range of 9-32VAC/VDC

Mounting: Mounting: 2-Gang1/2" deep electrical box

Terminal strips: 2 x 12 pin fixed terminal strips accept up to 16 AWG wires

Alarm sounder

Voltage rating: @95 dB or 105dB

Pulsing tones indicate warning alarm

Decibel(dB) level is programmable

Time Delays

Access delay: Shunts the alarm function for the duration of the delay.

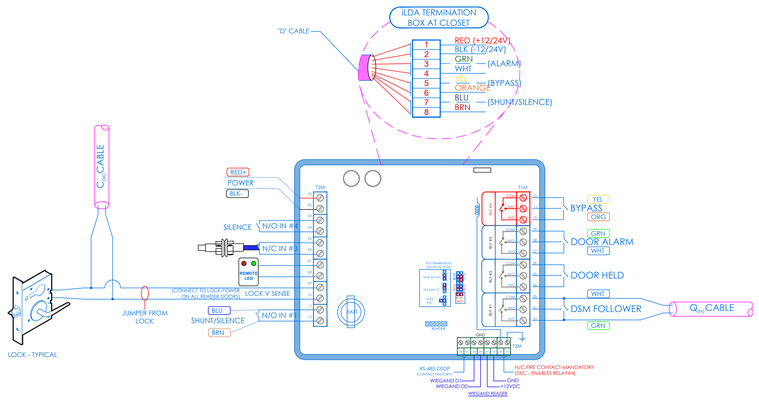
Warning delay: Sets the duration of the warning alarm.

Alarm automatic reset delay: Sets the duration of an alarm if the automatic reset feature is enabled.

Operational Functions:The iLDA display will show "SECURE" or "ARMED" in dark green and will also display time/date.

Available on the App Store — VISIT THE APP STORE AND DOWNLOAD ***NU2 ILDA APP***

WIRING DIAGRAM



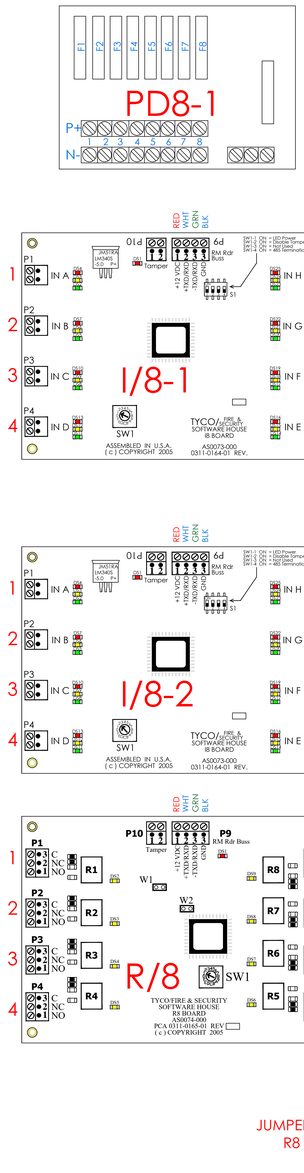
Symbol on Dwgs: iLDA

DTL: A06

ILDA TERMINATIONS
DMA DOORS 1-8

DM-T

INTERNAL WIRING OF THIS CONTROL TERMINATION BOX WILL BE PERFORMED AND DELIVERED BY ITG.
CONTRACTOR TO TERMINATE 8 CONDUCTOR ("D") CABLE AS PER SHOWN COLOR CODED TERMINALS



PD8-F1	1	RED (+12/24V)	
	2	BLK (-12/24V)	
I8-1-A	3	GRN / WHT	(ALARM)
I8-1-B	4	YEL / ORANGE	(BYPASS)
	5	BLU / BRN	(SHUNT/SILENCE)
R8-1-A	6		
	7		
	8		
PD8-F2	1	RED (+12/24V)	
	2	BLK (-12/24V)	
I8-1-C	3	GRN / WHT	(ALARM)
I8-1-D	4	YEL / ORANGE	(BYPASS)
	5	BLU / BRN	(SHUNT/SILENCE)
R8-1-B	6		
	7		
	8		
PD8-F3	1	RED (+12/24V)	
	2	BLK (-12/24V)	
I8-1-E	3	GRN / WHT	(ALARM)
I8-1-F	4	YEL / ORANGE	(BYPASS)
	5	BLU / BRN	(SHUNT/SILENCE)
R8-1-G	6		
	7		
	8		
PD8-F4	1	RED (+12/24V)	
	2	BLK (-12/24V)	
I8-1-G	3	GRN / WHT	(ALARM)
I8-1-H	4	YEL / ORANGE	(BYPASS)
	5	BLU / BRN	(SHUNT/SILENCE)
R8-1-D	6		
	7		
	8		
PD8-F5	1	RED (+12/24V)	
	2	BLK (-12/24V)	
I8-2-A	3	GRN / WHT	(ALARM)
I8-2-B	4	YEL / ORANGE	(BYPASS)
	5	BLU / BRN	(SHUNT/SILENCE)
R8-1-E	6		
	7		
	8		
PD8-F6	1	RED (+12/24V)	
	2	BLK (-12/24V)	
I8-2-C	3	GRN / WHT	(ALARM)
I8-2-D	4	YEL / ORANGE	(BYPASS)
	5	BLU / BRN	(SHUNT/SILENCE)
R8-1-F	6		
	7		
	8		
PD8-F7	1	RED (+12/24V)	
	2	BLK (-12/24V)	
I8-2-E	3	GRN / WHT	(ALARM)
I8-2-F	4	YEL / ORANGE	(BYPASS)
	5	BLU / BRN	(SHUNT/SILENCE)
R8-1-G	6		
	7		
	8		
PD8-F8	1	RED (+12/24V)	
	2	BLK (-12/24V)	
I8-2-G	3	GRN / WHT	(ALARM)
I8-2-H	4	YEL / ORANGE	(BYPASS)
	5	BLU / BRN	(SHUNT/SILENCE)
R8-1-H	6		
	7		
	8		
TO PD8	1		
	2		
	3	RED	FROM LOCK PWR
	4	BLK	
JUMPERS TO I8 & R8 MODULES	5	RED	FROM ISTAR ACM POWER & RS-485
	6	WHT	
	7	GRN	
	8	BLK	

DMA #1 DMA #2 DMA #3 DMA #4 DMA #5 DMA #6 DMA #7 DMA #8

NOTE: ILDA's 9-16 ARE TERMINATED IN DMA TERMINATION BOX #2 (not shown) IN DEVICE POSITIONS 1-8.
SEE SE-300 CLOSET DETAILS FOR MOUNTING OF BOXES 1&2. SEE ILDA/DMA TERMINATION MATRIX THIS PAGE

ILDA/DMA TERMINATION MATRIX

DMA

ILDA/DMA TERMINATION MATRIX

CLOSET	BOX	PORT	CAD	LOCATION
CLOSET - 1	ENCLOSURE - 1	1	B-01-01-01	GYMNASIUM DOOR
		2	B-02-01-02	CLASSROOM 14
		3	B-03-01-03	CLASSROOM 12
		4	B-04-01-04	MECH.
		5	B-05-01-05	CLASSROOM 110
		6	1-06-01-06	NORTH DOOR @ STAIRS
		7	1-07-01-07	VEST - SE
		8	1-08-01-08	VEST - NE
	ENCLOSURE - 2	1	1-09-02-01	CLASSROOM 19
		2	1-10-02-02	REAR DOOR-CUSTODIAL ARMING STATION
		3	1-11-02-03	AUDITORIUM EXTERIOR DOOR
		4	2-12-02-04	MAIN DOOR
		5	2-13-02-05	VEST - SW
		6	2-14-02-06	OFFICE COAT ROOM
		7	2-15-02-07	CORRIDOR EXTERIOR NE DOOR
		8	SPARE	

NOTES:
1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COLY BOE.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY MANAGER.
4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
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1/10/2018	ISSUED FOR REVIEW / APPROVAL
2/18/2019	ISSUED FULL SET FOR APPROVAL
2/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
1/15/2020	REVISED-ISSUED FOR BID

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

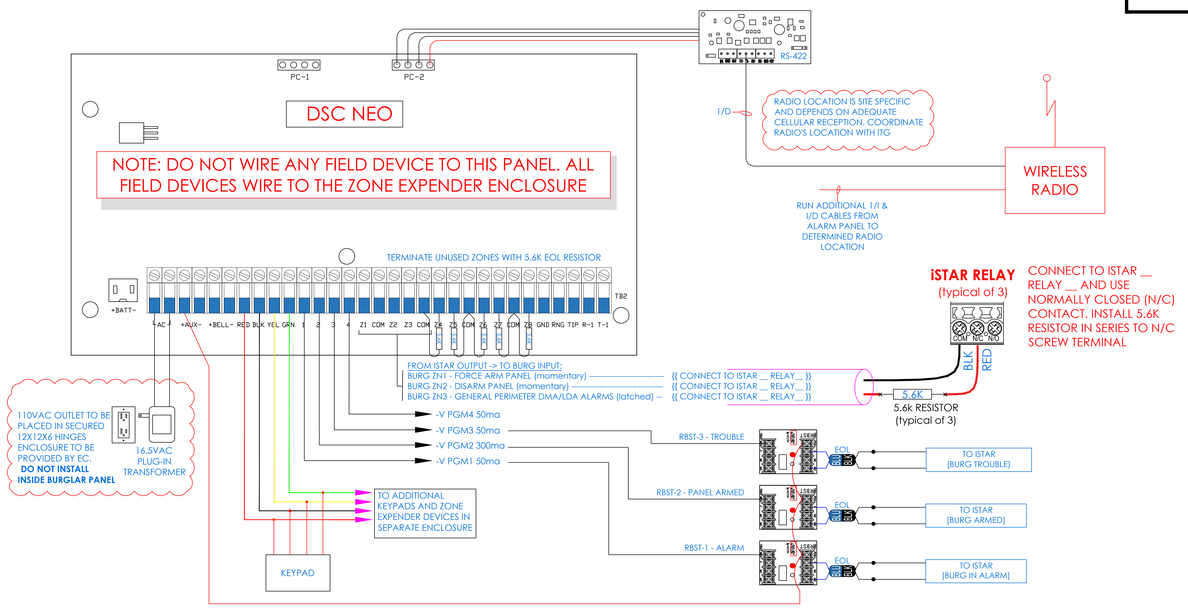
TITLE:
SECURITY EQUIPMENT DETAIL 3
iLDA DEVICE TYPICALS

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX	DATE: 11/27/2019
S.A. NO: XXXXXX	SCALE: N.T.S.
	DRAWING NO: SE-705

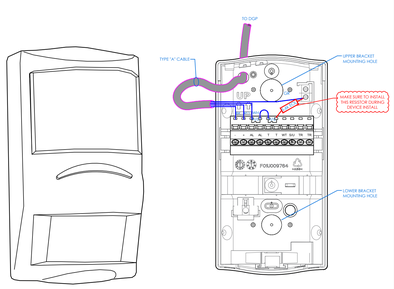
DSC NEO PANEL

NEO

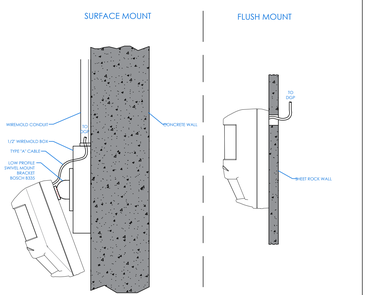


BOSCH
PROFESSIONAL SERIES P/N: ISC-PDL1-W18G

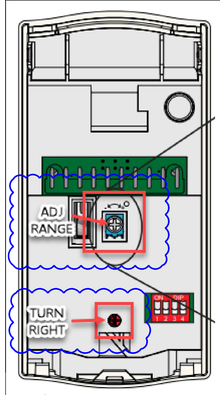
DEVICE DETAIL



MOUNTING



RANGE SETTINGS



3.0 Switch Settings

3.1 Switch 1 - Walk Test

ON / OFF

Switch 1	Voltage on WT Terminal	Walk Test
ON	0	ON
ON	+12	OFF
OFF	0	OFF
OFF	+12	ON

The Remote Self Test automatically occurs when the walk test changes from a disabled to enabled by a change in the voltage on the WT terminals.

A passing Remote Self Test responds with an alarm signal.

The Remote Self Test must be connected to 0 or +12 VDC on UL listed Control Panels.

3.2 Switch 2 - Alarm Memory Polarity

ON / OFF

Switch 2	Voltage on S/U Terminal	Alarm Memory
ON	+12	ON (Locked)
ON	0	OFF (Unlocked)
OFF	0	ON (Locked)
OFF	+12	OFF (Unlocked)

The Alarm Memory must be connected to 0 or +12 VDC on UL listed control panels.

3.3 Switch 3 - Short Range/ Long Range

ON / OFF

Switch 3	Range	Distance
ON	Short	25 ft (8 m)
OFF	Long	60 ft (18 m)

3.4 Switch 4 - Antimask ON/ Antimask OFF

ON / OFF

Switch 4	Antimask
ON	ON
OFF	OFF

When Antimask is ON, items placed within 1 ft (30 cm) of the detector are detected. The detector closes the Trouble contact (terminals marked "TR") 30 sec after the detector is blocked.

4.0 LED Indicators

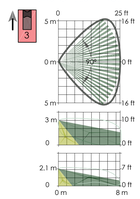
Color	Indication	Function
Blue	Steady ON	New alarm detected
Yellow	Steady ON	Microwave detection
Red	Steady ON	PIR Detection
Blue	Flashing	Detector warming up. (Up to 2 minutes)
Blue	Flashing 1/4 sec ON, 1/4 sec OFF	Alarm Memory
Blue	3 Flashes	Antimask Detected
Blue	4 Flashes	Self Test/ Self Test failure
Blue	5 Flashes	Low Input Power

Mounting
- The recommended mounting height is 2 m to 3 m (7 ft to 10 ft) with no adjustments required.
- Mount the motion detector level, both horizontally and vertically.

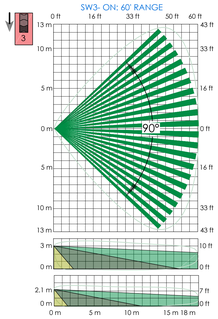
Mounting options:
- On a flat wall with the optional B335-3 Swiveling Low-profile mount, or with the optional B328 Gimbal-mount racket
- In a corner (the junction of two perpendicular walls)
- On the ceiling with the optional B338 Universal Ceiling-mount Bracket

Adjustments:
- Turn 'Walk Test' SW1 on
- Field adjust range (25' or 60') via SW3
- Adjust Microwave range via rotary pot for optimum range
- disable 'pet' detection by rotating red knob to RIGHT
- Turn 'Walk Test' SW1 on

SW3- OFF: 25' RANGE



SW3- ON: 60' RANGE



DEFAULT SETTINGS

Symbol on Dwgs: MS

DTL: A08

BURGLAR ALARM ZONE DETAIL
(TO BE FILLED BY INSTALLING CONTRACTOR)

BA-Z

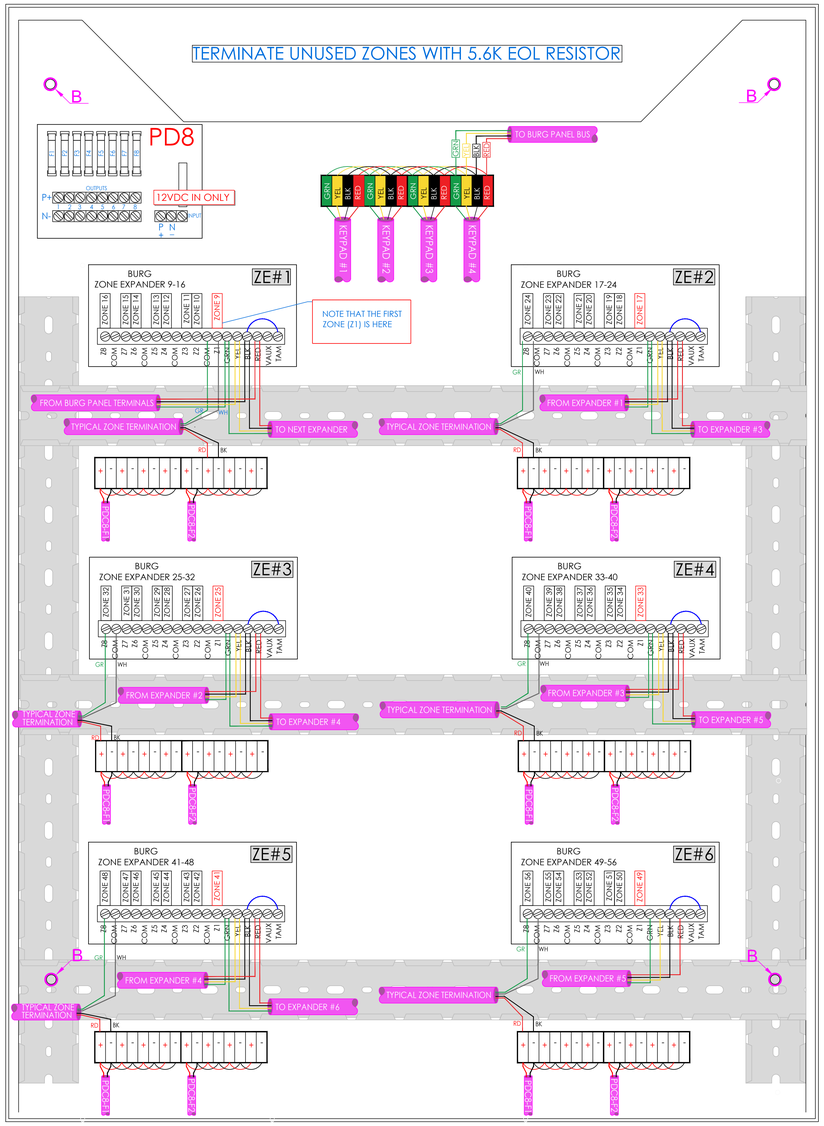
SEE ZONE TERMINATION ENCLOSURE (BA-X) THIS PAGE

BURGLAR ALARM TERMINATION MATRIX

	PORT	ZONE	DEVICE TAG	LOCATION
PANEL		1		Force-Arm panel. Momentary contact from iStar
		2		Disarm panel. Momentary contact from iStar
		3		iLDA Door Alarm - Dry Contact from iStar
		4		
		5		
		6		
		7		
		RLY 1		Burg "ALARM" notification to iStar
		RLY 2		"ARMED" Status to iStar (to Shut off lights)
		RLY 3		Burg "TROUBLE" notification to iStar
ZE #1		Z1	9	B-01-01-09 GYMNASIUM
		Z2	10	B-02-01-10 CORRIDOR
		Z3	11	B-03-01-11 CORRIDOR
		Z4	12	B-04-01-12 CLASSROOM 14
		Z5	13	B-05-01-13 CLASSROOM 12
		Z6	14	B-06-01-14 CLASSROOM 110
		Z7	15	B-07-01-15 CORRIDOR
		Z8	16	B-08-01-16 CORRIDOR
ZE #2		Z1	17	1-09-02-17 CORRIDOR
		Z2	18	1-10-02-18 CORRIDOR
		Z3	19	1-11-02-19 CORRIDOR
		Z4	20	1-12-02-20 CORRIDOR
		Z5	21	1-13-02-21 CLASSROOM 19
		Z6	22	1-14-02-22 REAR DOOR - CUSTODIAL ARMING STATION
		Z7	23	1-15-02-23 OFFICE
		Z8	24	1-16-02-24 LOBBY
ZE #3		Z1	25	2-17-03-25 CORRIDOR
		Z2	26	2-18-03-26 OFFICE COAT ROOM
		Z3	27	2-19-03-27 CORRIDOR
		Z4	28	2-20-03-28 CORRIDOR
		Z5	29	2-21-03-29 CORRIDOR
		Z6	30	2-22-03-30 STAIR
		Z7	31	SPARE
		Z8	32	SPARE

BURGLAR ALARM ZONE EXPANDER MODULE CONFIGURATION & WIRING

BA-X



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7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

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PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

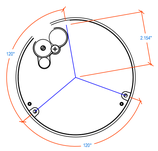
TITLE:
SECURITY EQUIPMENT DETAIL 4
BURG DEVICE TYPICALS

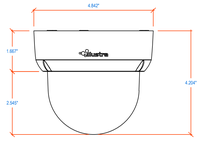
I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

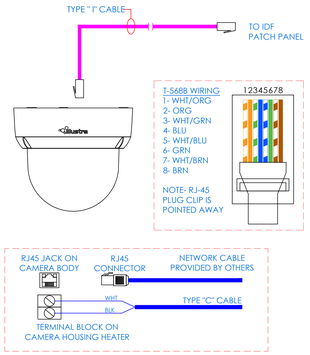
WORK ORDER NO:	DATE:
XXXXXX	11/27/2019
S.A. NO:	SCALE: N.T.S.
XXXXXX	DRAWING NO: SE-705A

TYCO - ILLUSTRA FLEX 4K MINI DOME
8MP MINI DOME p/n: IFS08D2ICWTT (INDOOR) & IFS08D2OCWTT (OUTDOOR)

DEVICE DETAIL & WIRING





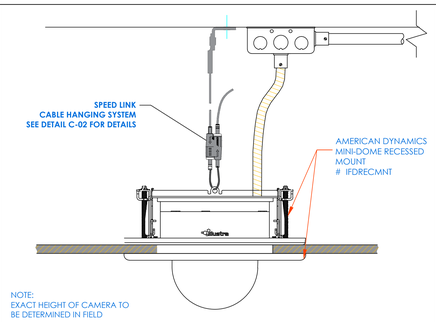


SPECIFICATIONS

	Indoor	Outdoor
Operational		
Video Compression	H.264 / H.265 / IntelliZip / MJPEG	
Max Frame Rate	8MP @ 15 fps	
ONVIF Compliant	Profile S	
Analog Video Output	Yes	
Resolution	3840x2160 (4K) 16:9 3264x1840 16:9 2592x1944 4:3 2688x1520 16:9 2048x1536 (QXGA) 4:3 1920x1080 (1080p) 16:9	1280x960 (SXGA-) 4:3 1280x720 (720p) 16:9 800x600 (SVGA) 4:3 640x480 (640VGA) 4:3 640x360 (nHD) 16:9
Imager	1/2.5"	
Day/Night	True D/N with ICR	
TrickleStor	Yes	
IR Distance	N/A	25m
Motion Detection	3 zones	
Blur Detection	Yes	
Privacy Zones	9 zones	
Alarm Input/Output	1 - 1	
Audio Input/Output	1 - 1	
Video Streams	Triple Streaming with a Maximum of 5 Concurrent Shared Streams	
True Wide Dynamic Range	100dB	
Minimum Illumination		
Color	0.03 Lux	
B/W	0.0003 Lux	
Field of View (H/V)		
Wide Angle	104°/56°	
Telephoto	42°/24°	
Lens Type	Motorized Varifocal and Focus, P-iris control, IR corrective	
Focal length	3.4-9mm	
Aperture	F/1.5(W)-F/2.9(T)	
Supported Languages	Arabic, Czech, Chinese (Simplified), Chinese (Traditional), Danish, Dutch, English (US), French, German, Italian, Japanese, Korean, Polish, Portuguese (Brazilian), Russian, Spanish, Turkish	
Network		
Ethernet Interface Port	IEEE 802.3, 10/100Base-T Ethernet, Female RJ45, Auto-Negotiation	
Support Protocols	TCP/IP, IPv4, IPv6, TCP, UDP, HTTP, FTP, DHCP, WS-Discovery, DNS, DDNS, RTP, RTCP, RTSP, TLS, Unicast, Multicast, NTP, ICMP, IGMP, SMTP, WS-Security, IEEE 802.1x, PEAP, EAP-TLS, EAPoL, SSH, HTTPS, SOAP, WSAddressing, CIFS, SNMP, UPNP, RTSP, LLDP	
Configuration Management		
Web Browser	Internet Explorer 8.0 or above, Firefox, Safari, Chrome	
Security	TLS - RFC5246 v1.2, HTTPS (HTTP over TLS) - RFC2818, WS-Security, Certificate Management, Multi-Level Password Protection, IP Address, Filtering, HTTPS Encryption, One-Click Security Hardening, User Access Log, Validate Complex Credentials, Disabling Unused Protocols, IEEE, 802.1x including: PEAP, EAP-TLS, EAPoL	
Onboard Storage		
Card Support	Micro SD & SDXC slot up to 128GB; Class 10 or higher; Card not included	
Electrical		
Power Input	24VAC, PoE IEEE 802.3af class 2	24VAC, PoE IEEE 802.3af class 3
Power Draw	6W	12W
Physical		
Dimensions	Ø4.8 x 4.2 in (Ø123 x 107 mm)	
Weight	2.05lbs (0.93kg)	2.14lbs (0.97kg)
Housing Color	White	
Operating Temperature	-4°F to 122°F (-20°C to 50°C) No Heater	-58°F to 122°F (-50°C to 50°C) Extended Temperature: 140°F (60°C) for 5 hours a day with IR Illuminators OFF[1]
Vandal Resistant	IK10	
Environmental Rating	IP66/IP67	
Regulatory		
Emissions	FCC Part 15 Class A; EN55032 Class A; AS/NZS CISPR 32 Class A; ICES-003/NMB-003 Class A	
Immunity	EN55024, EN50130-4	
Safety	EN60950-1; UL60950-1; CAN/CSA-C22.2 No. 60950-1	
Environment	RoHS/WEEE	

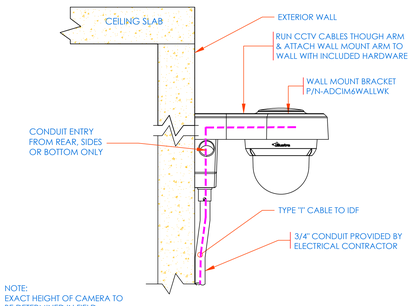
[1]Extended temperature limited to cameras installed in indirect sunlight

CEILING MOUNTING DETAIL



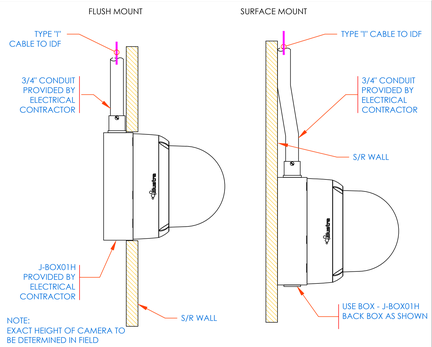
NOTE:
EXACT HEIGHT OF CAMERA TO
BE DETERMINED IN FIELD

OUTDOOR WALL SURFACE MOUNT DETAIL



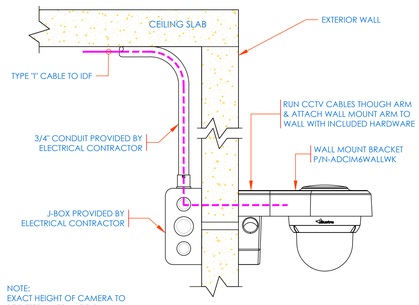
NOTE:
EXACT HEIGHT OF CAMERA TO
BE DETERMINED IN FIELD

INDOOR (ONLY) WALL MOUNTING DETAIL



NOTE:
EXACT HEIGHT OF CAMERA TO
BE DETERMINED IN FIELD

OUTDOOR WALL MOUNT DETAIL

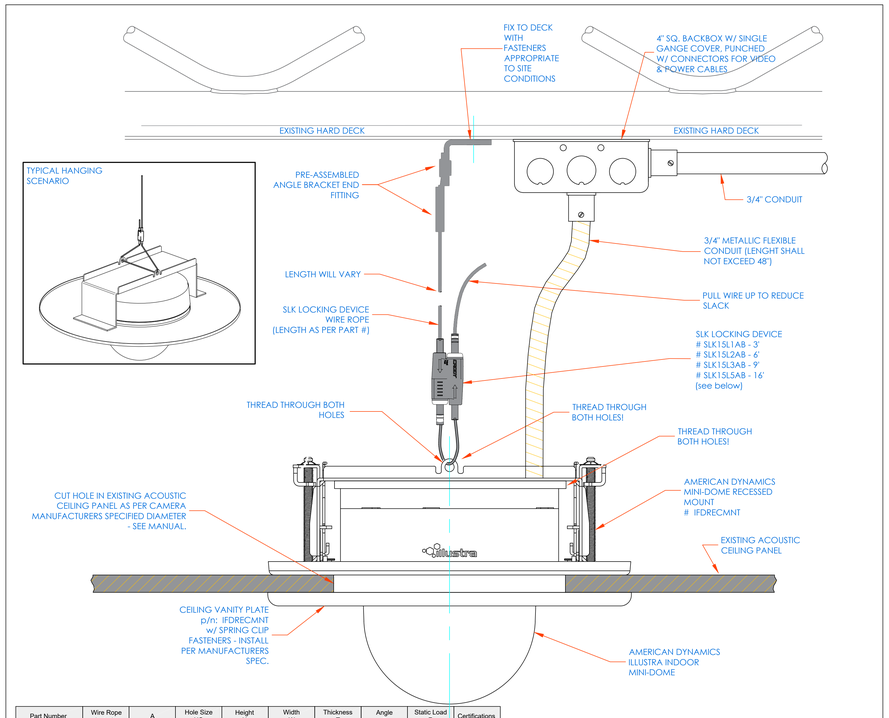


NOTE:
EXACT HEIGHT OF CAMERA TO
BE DETERMINED IN FIELD

Symbol on Dwgs:

DTL: C01

nVent CADDY
SPEED LINK SLK WITH ANGLE BRACKET



Part Number	Wire Rope Length	A	Hole Size HS	Height H	Width W	Thickness T	Angle a	Static Load F	Certifications
Stainless Steel Construction									
SLK15L1AB	3.3'	0.891"	0.281"	2.15"	0.75"	0.5"	90° Max	44 lb	cULus
SLK15L2AB	6.6'	0.891"	0.281"	2.15"	0.75"	0.5"	90° Max	44 lb	cULus

DTL: C02

NOTES:
1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COLY BOE.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOE SECURITY MANAGER.
4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"
7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:

DATE	COMMENTS
1/10/2018	ISSUED FOR REVIEW / APPROVAL
2/18/2019	ISSUED FULL SET FOR APPROVAL
2/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
7/15/2019	REVISED
8/26/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

ITG Larson,Inc.
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White Plains, NY 10603

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PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

SHEET:
SECURITY EQUIPMENT DETAIL 5
CCTV TYPICALS

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY

WORK ORDER NO: XXXXXX
DATE: 11/27/2019
SCALE: NO SCALE
S.A. NO: XXXXXX
DRAWING NO: SE-706