

YONKERS PUBLIC SCHOOLS

SCHOOL 16

759 NORTH BROADWAY
YONKERS, NY 10701

SECURITY UPDATE PROJECT

- NOTES:
1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPE AND ROUTE, 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 CDP BSE.
 3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BSE SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSE.
 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 NOTED ON THE AS-BUILT.
 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND 'AS-BUILT' SET IN BOTH 'D' SET (HARD COPY) AND 'E' SET (PDF) WITH 'PDF' FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

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 1STAR-OVERALL SCHEMATIC SECURITY DEVICE & POWER CONNECTION
 - SE-701 ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ MOTION REX
 - SE-702A ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ BUILT-IN 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)

SECURITY DEVICES LEGEND

	CARD READER	LR = LONG RANGE EL = ELEVATOR	BIO = BIOMETRIC BC = BARCODE
	DOUBLE DOOR CONTACTS	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
	DOOR CONTACT	R = RECESS S = SURFACE	DPDT = DOUBLE POLE DOUBLE THROW
	BURG PANEL KEY PAD		
	ELECTRIFIED DOOR OPERATOR (PBO)		
	OVERHEAD DOOR CONTACT	DPDT = DOUBLE POLE DOUBLE THROW	
	ELECTRIC MORTISE LOCK	REX = REQUEST TO EXIT BUILT IN	
	ELECTRIC STRIKE LOCK		
	END OF LINE RESISTOR		
	REQUEST TO EXIT MOTION SENSOR		
	INTELLIGENT LOCAL DOOR ALARM (ILDA) - "D" CABLE		
	ELECTRIC LOCKING CRASH BAR	REX = BUILT IN REQUEST TO EXIT	
	MOTION SENSOR (LONG RANGE) - "A" CABLE	MOTION SENSORS WILL BE WALL MOUNTED UNLESS MOTION SENSOR IS 360° CEILING TYPE	
	MOTION SENSOR (SHORT RANGE) - "A" CABLE		
	BUZZER		
	TEMPERATURE SENSOR		
	VIDEO MONITOR		
	INTERCOM	S=SUBSTATION M=MASTER	VS=VIDEO SUBSTATION VM=VIDEO MASTER
	SIREN		
	CUSTODIAN 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		

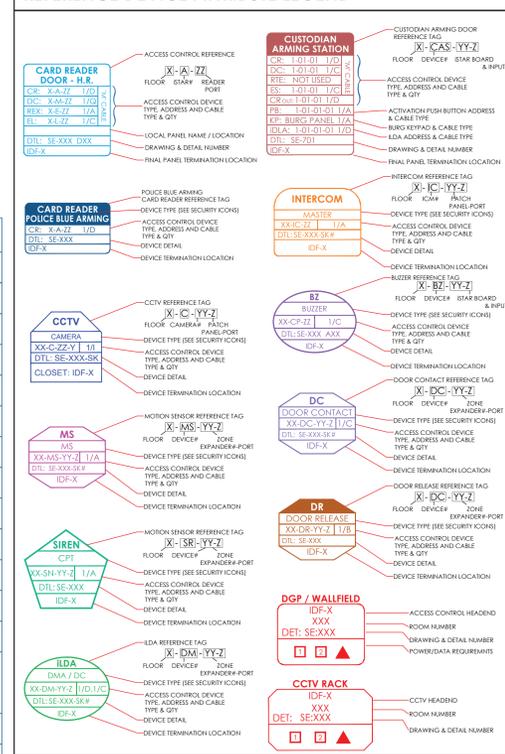
GENERAL NOTES

1. GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.
2. WORK TO COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATORY AGENCIES, INCLUDING, BUT NOT LIMITED TO, IBC, IGS, ETC.
3. THE INSTALLING SECURITY CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING WITH BUILDING MANAGEMENT THE USE OF ELEVATOR OR OTHER HOSTING 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 CONDUIT LAYOUTS SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURERS 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 & MICRODES ARE APPROPRIATE FOR 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 BACKWAY 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 120/240VAC 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 THE DRAWINGS SET.
10. THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLE PASS THROUGH HOLES IN WALLWORK 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 120/240VAC BACKWARD, USE COPPER BARE, 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 WIRWAYS 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 VERIFY 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 BASK & COMPUTER 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 151-77 TAGS. PROVIDE FOR OWNER'S REP REVIEW PRIOR TO USE.
22. SECURITY SCREWS TO BE USED AS SHOWN AND EXPECTED TO MAINTAIN SYSTEMS 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 WITH 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 WITH A 4"x4" BOX SURFACE MOUNTED 18" AFF WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

REFERENCE DEVICE ATTRIBUTE LEGEND



CABLE LEGEND

CABLE TYPE	MANUFACTURER	PART NUMBER	DESCRIPTION	USE	Q.D.
A	REMEE	TYPE A	20 AWG / 2 PAIR - INDIVIDUALLY SHIELDED PLENEX PINK CABLE	INTERCOM, COMMUNICATION, REX	194(N)
B	BELDEN	3082A	MULTI-CONDUCTOR DEVICES FOR DEVICES CABLE	PLC COMMUNICATION	480(N)
C	REMEE	TYPE C	18AWG / 2 COND PLENEX PINK CABLE	PIT POWER	150(N)
D	REMEE	TYPE D	20AWG / 8 COND OVERALL SHIELD PLENEX PINK CABLE	CARD READER, COMMUNICATION	207(N)
E	CORNING	129M42.5	4 STRAND 42.5M RISER FIBER - MULTIMODE	NETWORK BACKBONE	
F	REMEE	TYPE F	105(F) 20AWG PLENEX PINK CABLE	ANALOG CCTV CAMERA, ANALOG MONITOR	214(N)
H	TBD	TBD	14 AWG / 4 COND THRI STRANDED QUICK PULL CABLE COLOR: BLUE, RED, BROWN, YELLOW, PINK, WHITE	DEFERRED LOCK POWER/STATUS	
I	REMEE	TYPE I	23 AWG / 4 PAIR CAT5E - UNSHIELDED PLENEX	IP CCTV CAMERA, NETWORK	215(N)
M	REMEE	TYPE M	4 ELEMENT COMPOSITE PINK CABLE PLENEX (A) - TYPE A; 20AWG / 2 PAIR - REX (S) - TYPE C; 18AWG / 2 COND - LOCK POWER (D) - TYPE D; 20AWG / 8 COND - CARD READER (E) - TYPE E; 20AWG / 2 COND - DOOR CONTACT	ACCESS CONTROL DOOR	420(N)
P	HITACHI	SF-2631	20AWG / 25 PAIR CAT5E PLENEX	PLC COMMUNICATION	454(N)
Z	WEST PENN WIRE	AGC3186	18 AWG / 4 COND OVERALL SHIELDED, PVC	FEDESTAL CARD READER	323(N)
X	WEST PENN WIRE	AGC357	22 AWG / 2 PAIR, 1 PAIR SHIELDED, 1 PAIR UNSHIELDED, PVC	FEDESTAL INTERCOM	235(N)

DATE	ISSUED FOR REVIEW / APPROVAL	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	
1/15/2020	REVISED-ISSUED FOR BID	

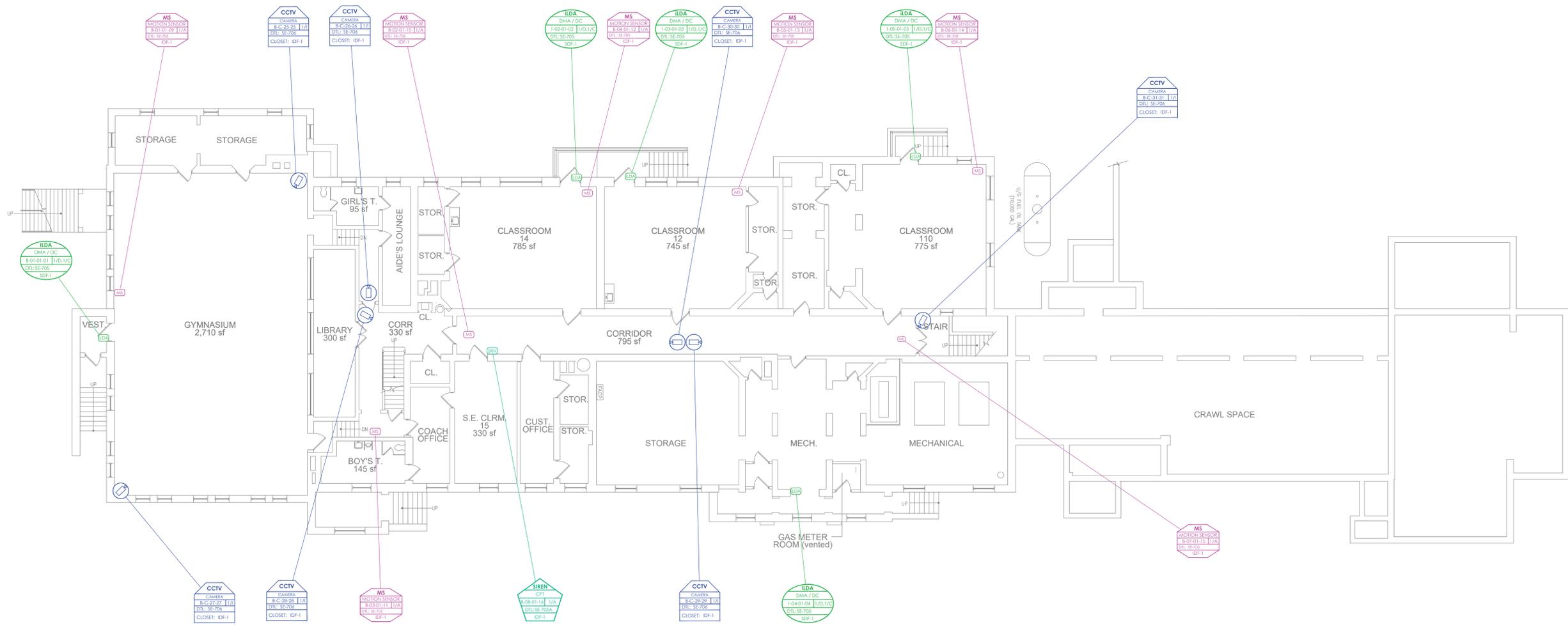


This CAD set and all inventions, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, offered, reproduced or distributed without ITG's written consent and permission.

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
XXXXXX	DATE: 11/27/2019	SCALE: NTS
XXXXXX	DRAWING NO: SE-000	



- 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 DRAWING SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE 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 ROUND AS BUILT SET IN BOTH PDF AND HARD COPY (1:1) AND A CDD WITH .JPG FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:	DATE	COMMENTS
ISSUED FOR REVIEW / APPROVAL	11/02/2018	
ISSUED FULL SET FOR APPROVAL	2/18/2019	
REVIEWED & REVISED-ISSUED FOR APPROVAL	2/19/2019	
REVIEWED	7/15/2019	
ISSUED FOR BID	8/26/2019	
REVIEWED-ISSUED FOR BID	10/6/2019	
REVIEWED-ISSUED FOR BID	11/15/2020	

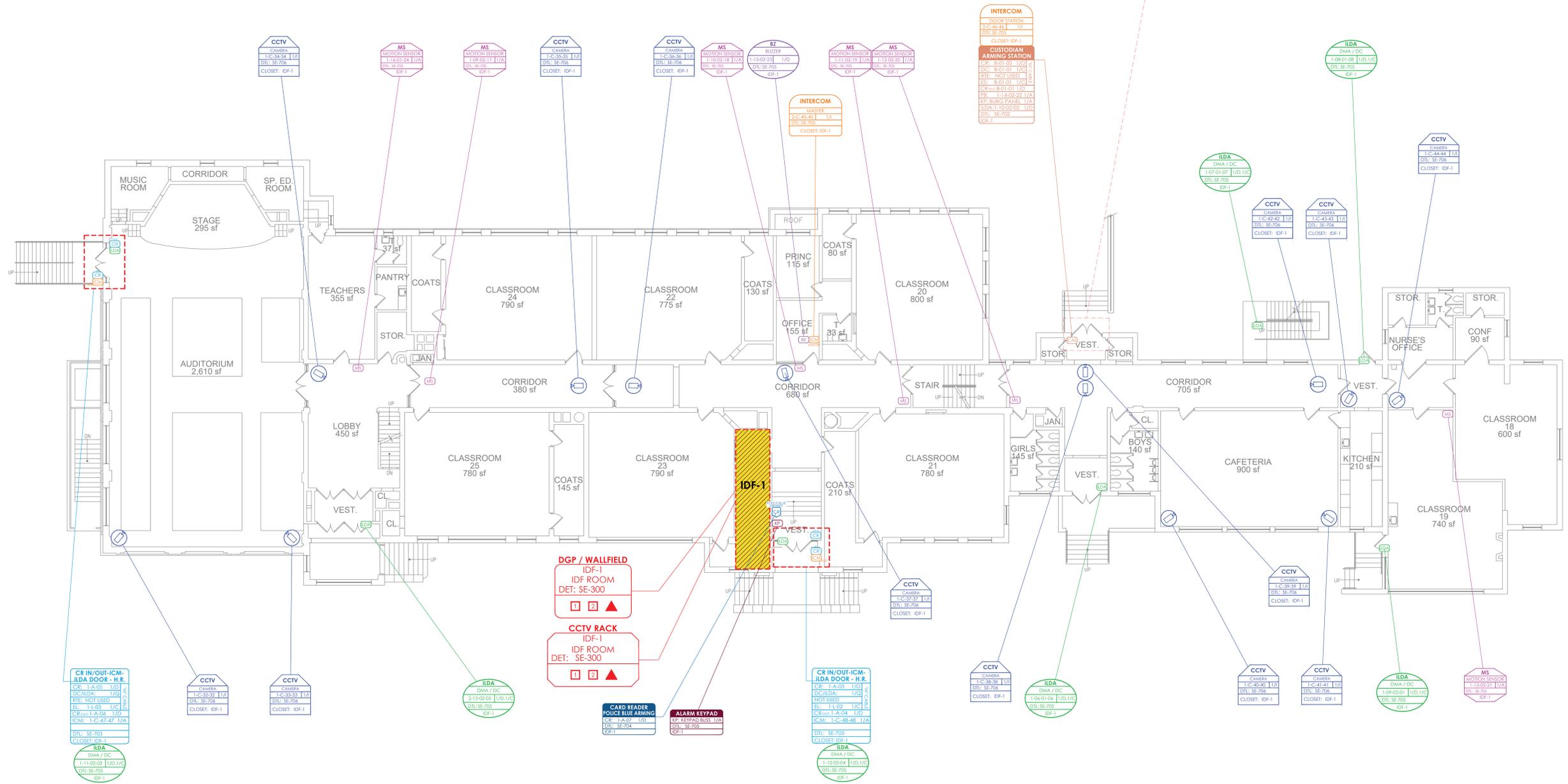


This CAD set and all inventions, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

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

TITLE:
 SECURITY UPDATE PROJECT
 BASEMENT

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



- 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 DRAWING SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE 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 'ROUND' AS BUILT SET IN BOTH 'PDF' AND 'DWG' COPY (1:100) AND A 'CD' WITH 'PDF' FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITO'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
1/15/2020	REVISED-ISSUED FOR BID

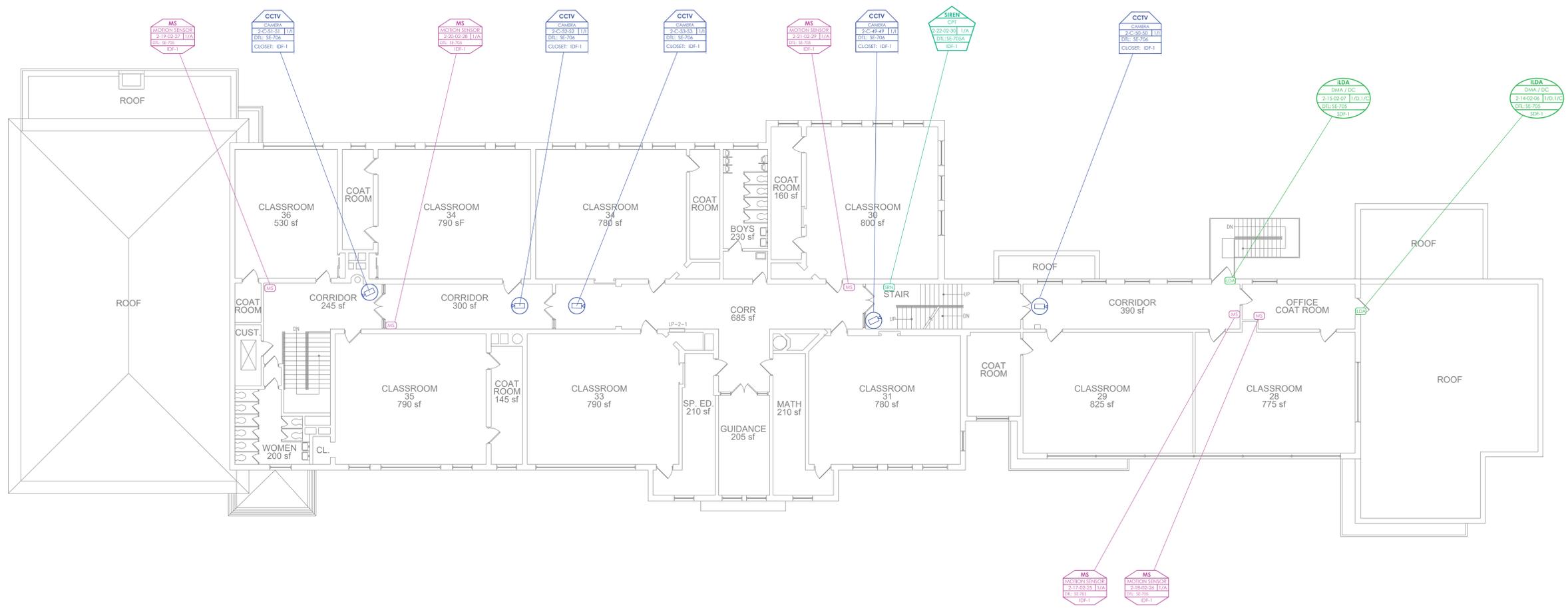


This CAD set and all inventories, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

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



- 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 DRAWING SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE 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 ROUND AS BUILT SET IN BOTH "D" SET HAND COPY (1 SET) AND A CD WITH ".PDF" FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITO'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:	DATE	COMMENTS
	11/10/2018	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

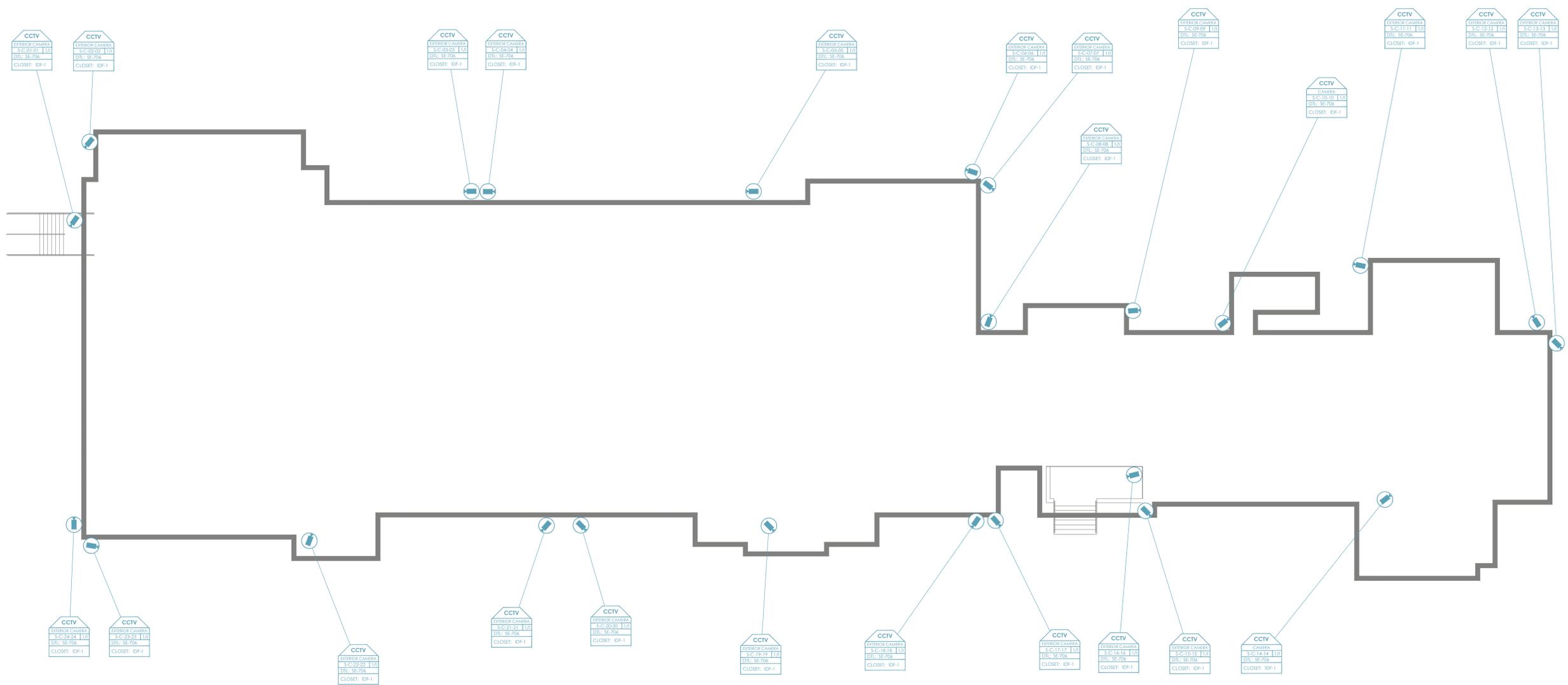


This CAD set and all inventions, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

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

TITLE:
SECURITY UPDATE PROJECT
SECOND FLOOR

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	SCALE:
XXXXXX	11/27/2019	
S.A. NO:	DRAWING NO:	
XXXXXX	SE-102	



- 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 DRAWING SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF RISK SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSET 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 ROUND AS BUILT SET IN BOTH 'D' SET HARD COPY (1:1) AND A CDD WITH 'PDF' FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, ITO'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

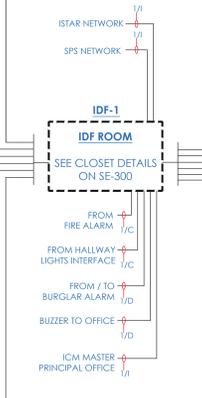
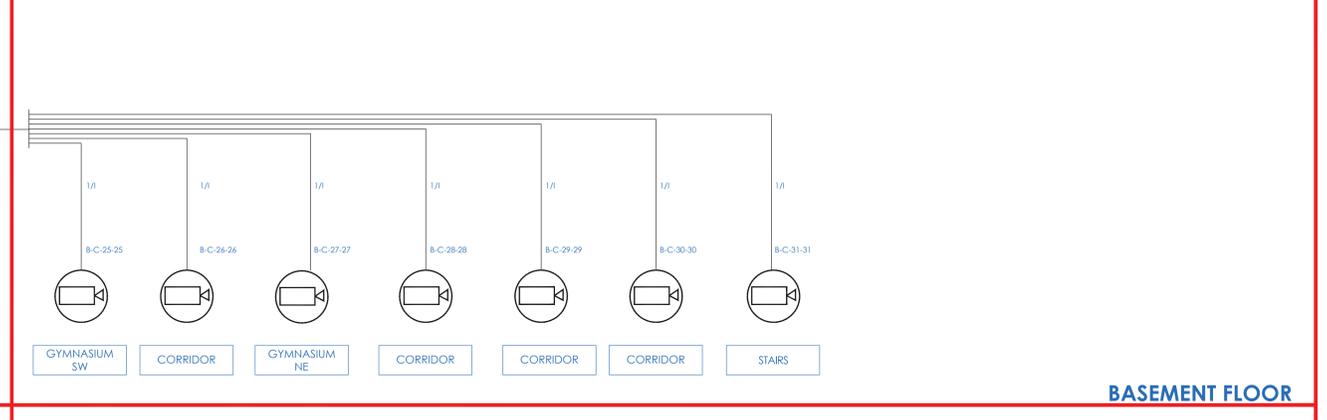
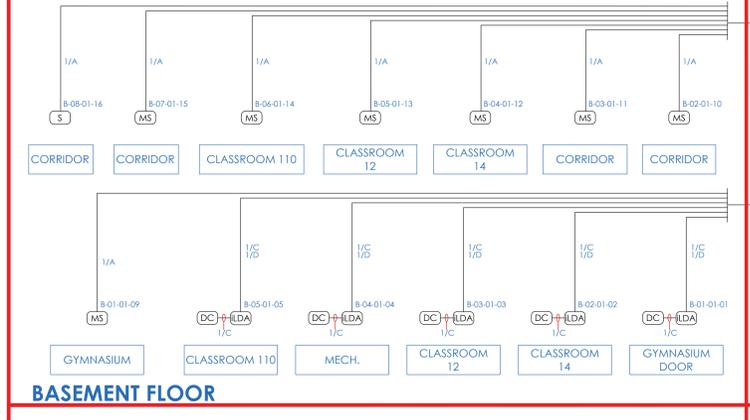
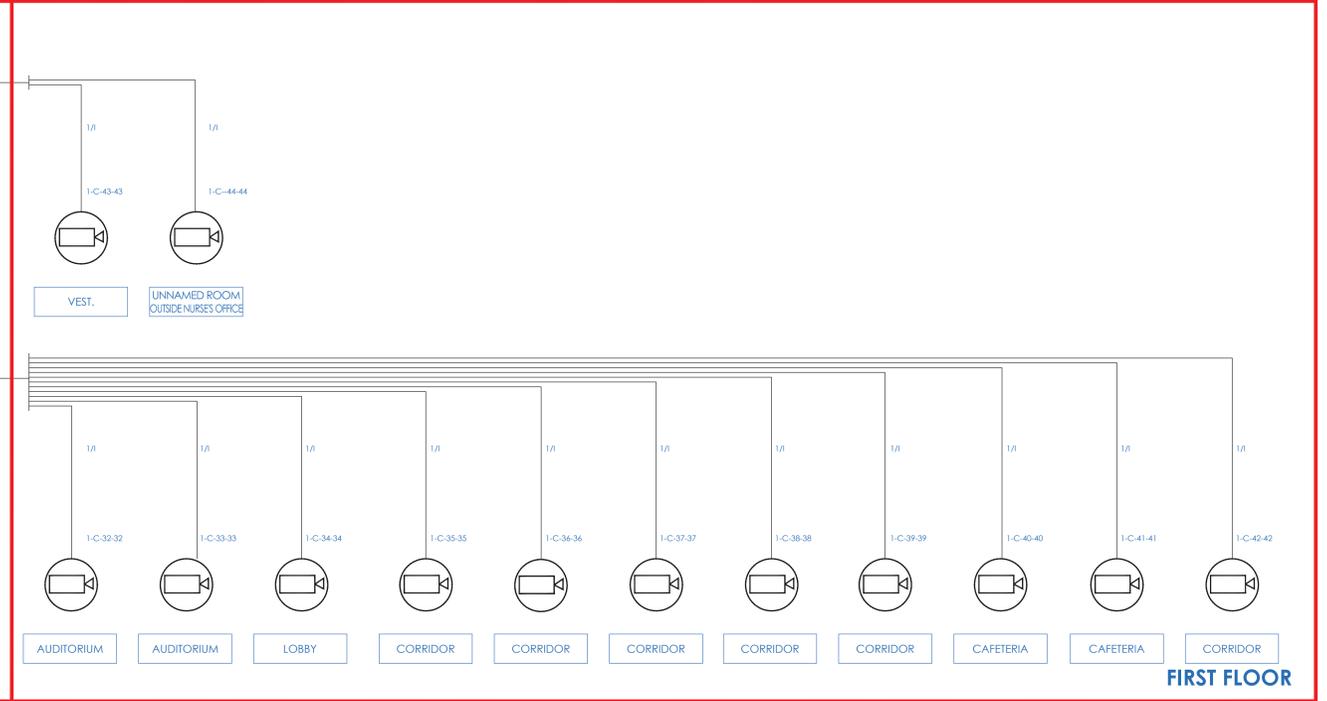
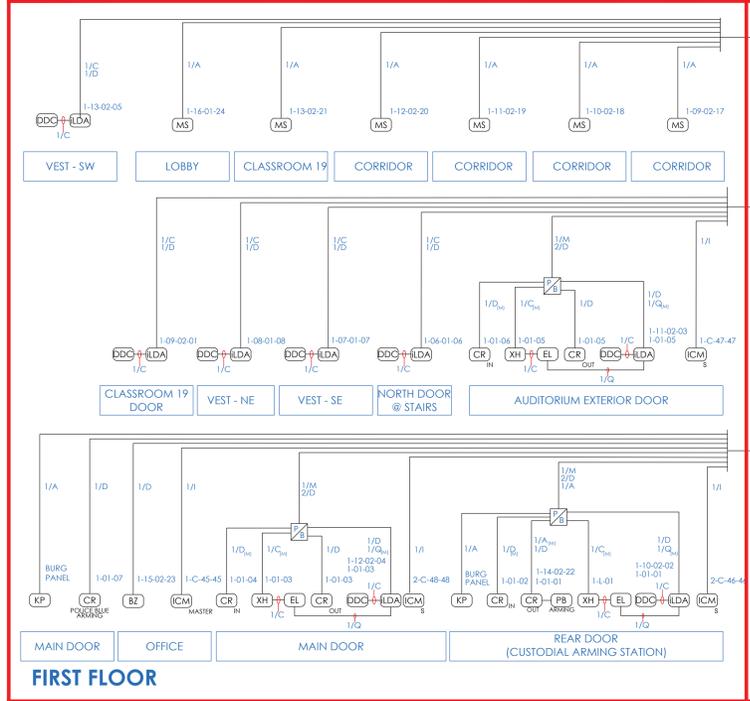
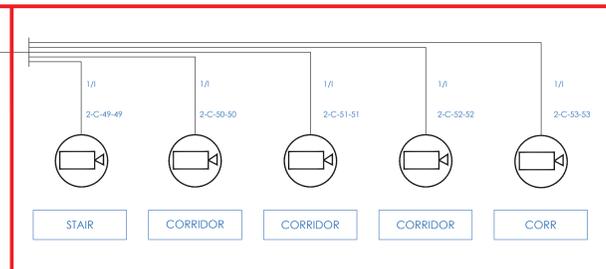
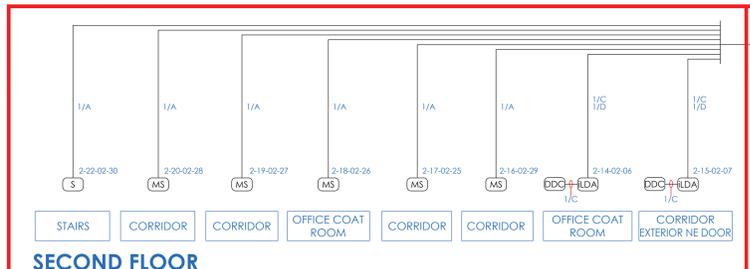


This CAD set and all inventors, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

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



- 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 DRAWING SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE 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 ROUND AS BUILT SET IN BOTH PDF AND HARD COPY (1 SET) AND A CD WITH .PDF FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, ITO'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

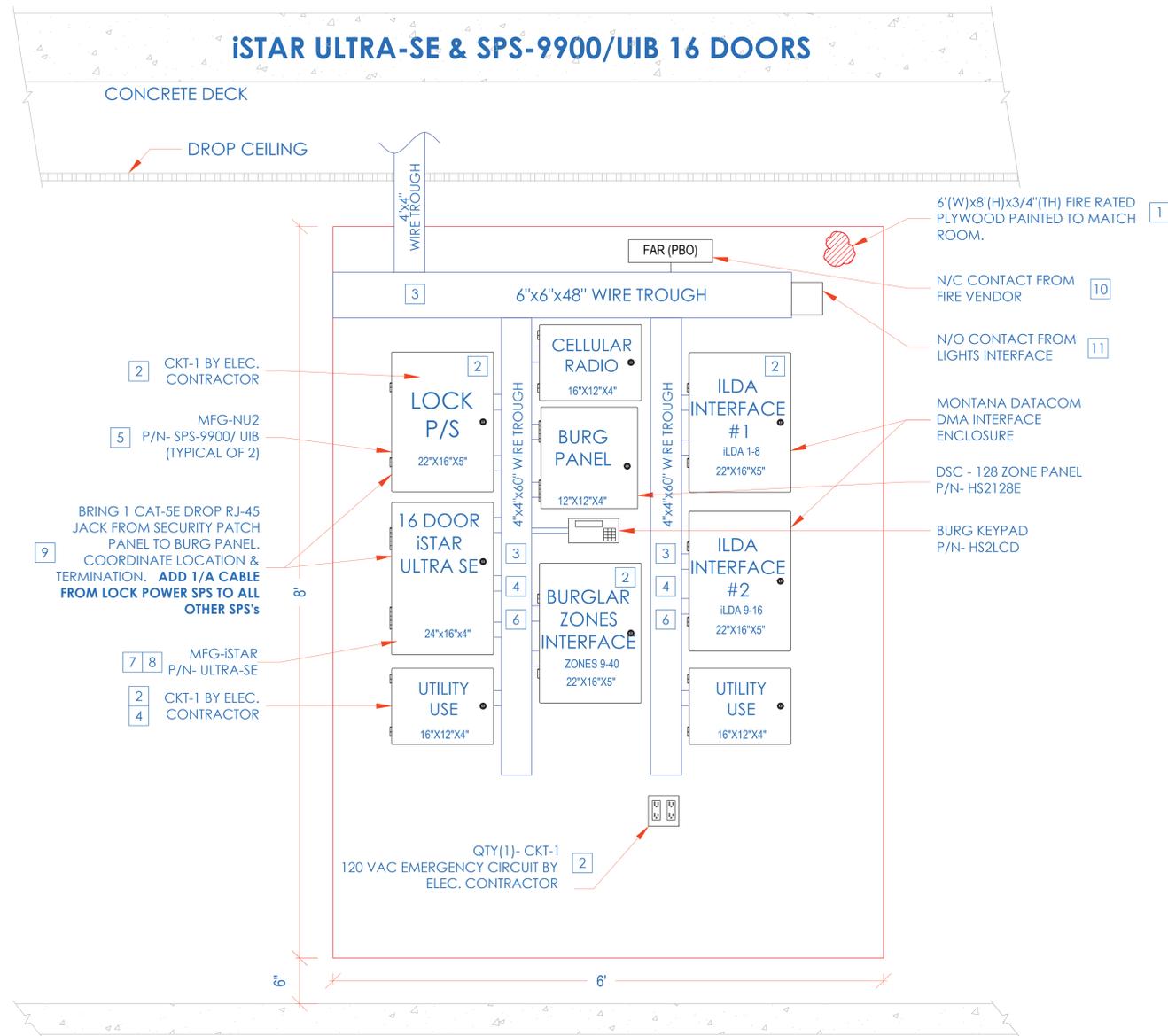


This CAD set and all inventories, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

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

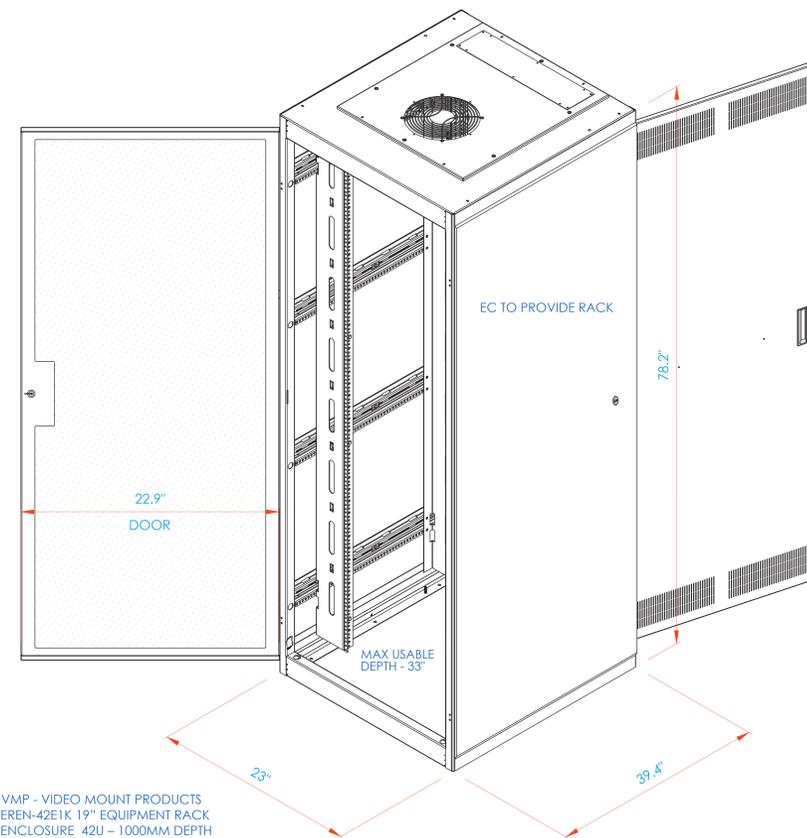
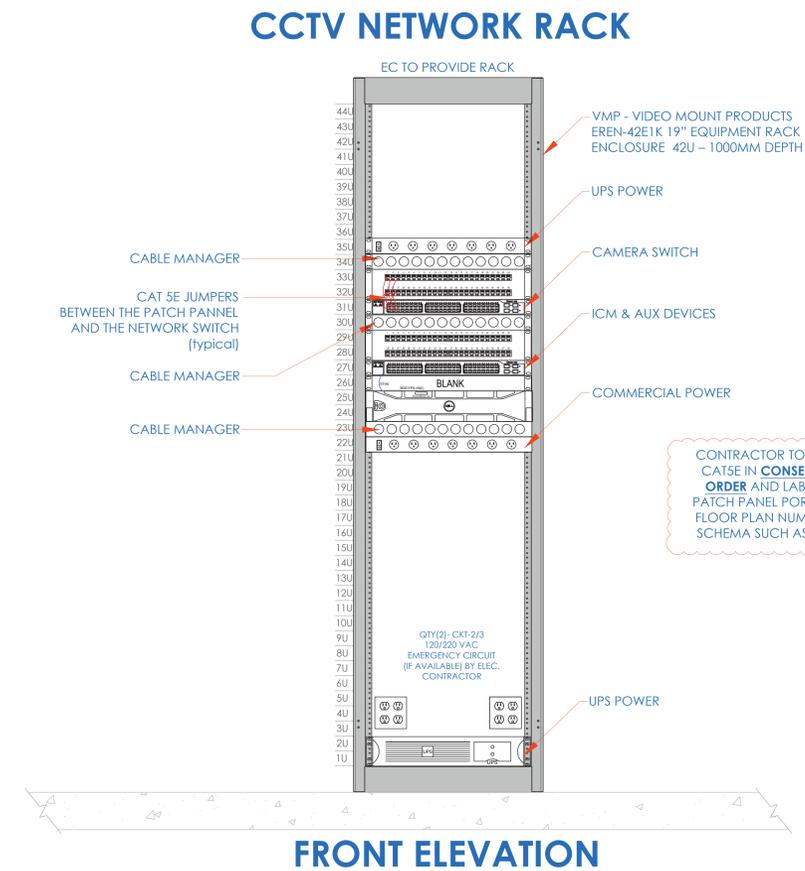
TITLE:
SECURITY DEVICE
RISER DIAGRAM

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	11/27/2019
XXXXXX	SCALE:	NO SCALE
S.A. NO:	DRAWING NO:	SE-200
XXXXXX		



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
- 11 PROVIDE 18/2 PAIR OF WIRES FROM BUILDING'S LIGHTING SYSTEM. ARRANGE SUCH THAT DESIGNATED BUILDING'S LIGHTS ARE TURNED ON WHEN THE SECURITY SYSTEM CLOSSES THE CIRCUIT
- 12 ALL CONDUITS AND CONNECTIONS SHALL BE INSTALLED TO REQUIRED ENCLOSURES AS NEEDED PER DIAGRAM PROVIDED.
- 13 ALL CONNECTIONS BETWEEN PANELS & TROUGH SHOULD BE CHASE NIPPLES & RIGID COUPLINGS.
- 14 INSTALL TAMPER SWITCHES AND WIRE PANELS IN SERIES TO DESIGNATED INPUT SHOWN ON POINT-TO-POINT CHARTS.



RACK - 3D VIEW

- 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 DRAWING SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF FIRE SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-5 WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CAT-5 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MAKE ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE AS BUILT.
 7. CONTRACTOR TO PRODUCE AND DELIVER A ROUND AS BUILT SET IN BOTH PDF AND HARD COPY (12 SETS) AND A CD WITH PDF FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. I/O'S POLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:	
DATE	COMMENTS
11/10/2018	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

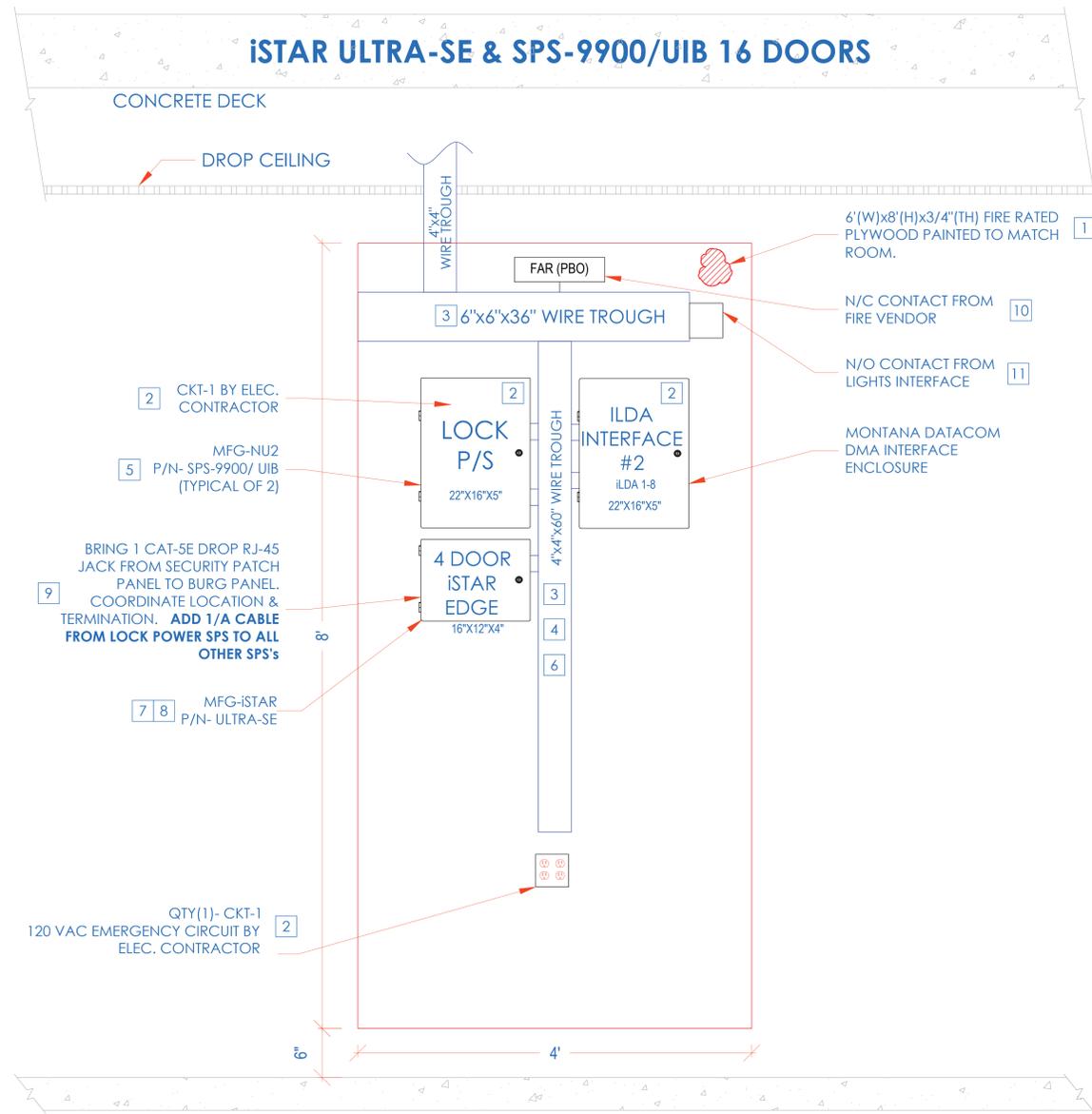


This CAD set and all inventors, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

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

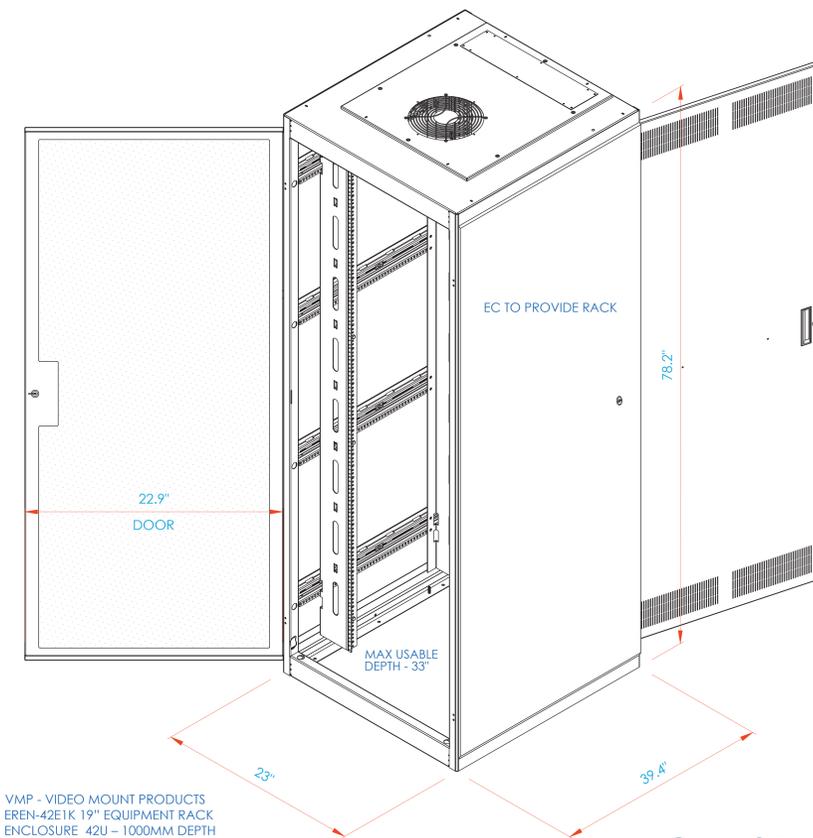
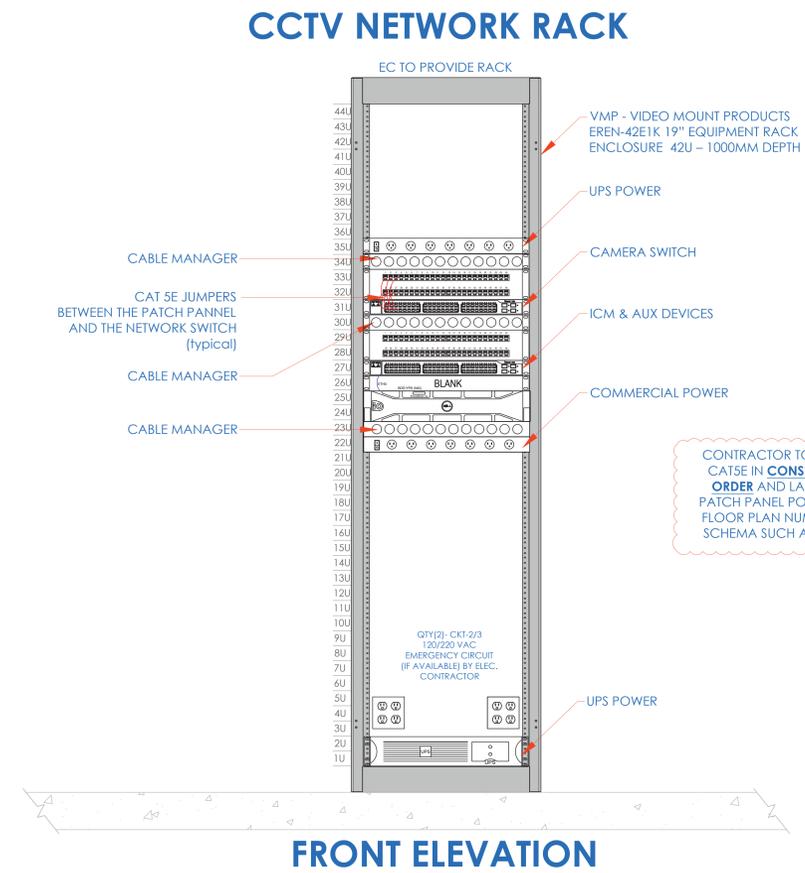
TITLE:
CLOSET ELEVATIONS
IDF-1

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
XXXXXX	XXXXXX	XXXXXX
WORK ORDER NO:	DATE	SCALE
XXXXXX	11/27/2019	N.T.S.
S.A. NO:	DRAWING NO:	
XXXXXX	SE-300	



**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 [STAR ULTRA SE] ENCLOSURE 1" BELOW THE LOCK POWER SUPPLY. FURNISH AND INSTALL 2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM [STAR 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
- 11 PROVIDE 18/2 PAIR OF WIRES FROM BUILDING'S LIGHTING SYSTEM. ARRANGE SUCH THAT DESIGNATED BUILDING'S LIGHTS ARE TURNED ON WHEN THE SECURITY SYSTEM CLOSES THE CIRCUIT
- 12 ALL CONDUITS AND CONNECTIONS SHALL BE INSTALLED TO REQUIRED ENCLOSURES AS NEEDED PER DIAGRAM PROVIDED.
- 13 ALL CONNECTIONS BETWEEN PANELS & TROUGH SHOULD BE CHASE NIPPLES & RIGID COUPLINGS.
- 14 INSTALL TAMPER SWITCHES AND WIRE PANELS IN SERIES TO DESIGNATED INPUT SHOWN ON POINT-TO-POINT CHARTS.



- NOTES:
1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPE AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF FIRE SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-5 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CAT-5 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 ROUND AS BUILT SET IN BOTH "D" SET HARD COPY (12 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
11/02/2018	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
10/26/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID



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

This CAD set and all inventors, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

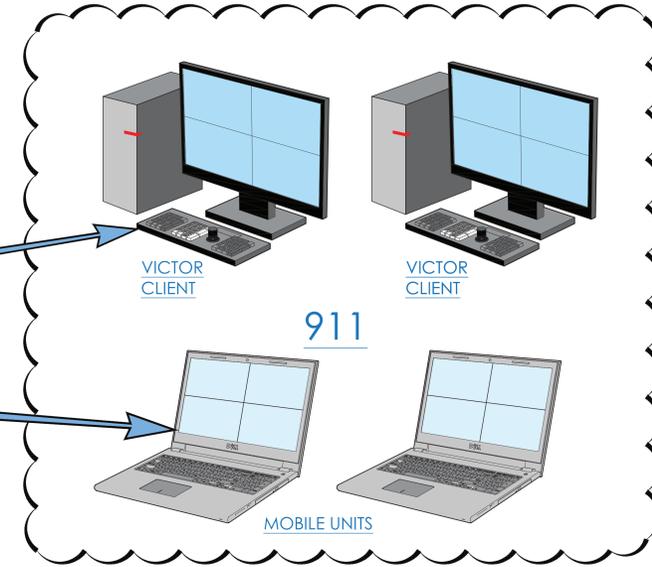
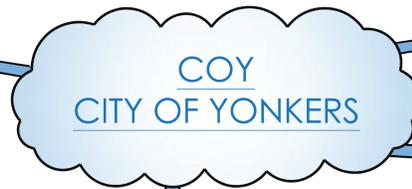
PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
CLOSET ELEVATIONS
IDF-2

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
XXXXXX	XXXXXX	XXXXXX
WORK ORDER NO:	DATE: 11/27/2019	SCALE: N.T.S.
S.A. NO:	DRAWING NO:	XXXXXX SE-301

COY-BOE SECURITY DEVICE NETWORK TOPOLOGY

CCURE / VICTOR DB



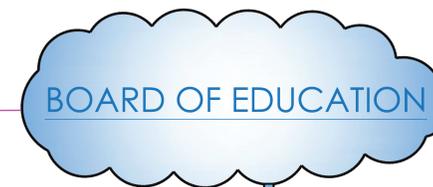
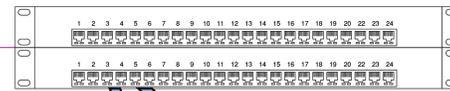
* TO UTILIZE VICTOR FOR MAX FUNCTIONALITY USERS WILL CONNECT TO COY UNIFIED SERVER

AMERICAN DYNAMICS NVR



ETH0 COY NETWORK
ETH1 BOE NETWORK
ETH2 CAMERA NETWORK

SCHOOL SWITCH

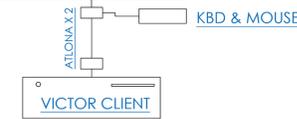
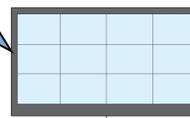


CAMERA SWITCH 1

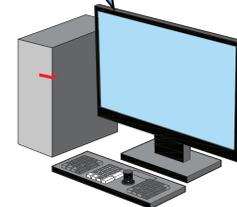


- TYPICAL
- C1 CAT-5 ; 10.100.xx.xxx
 - C2 CAT-5 ; 10.100.1.135
 - C3 CAT-5 ; 10.100.1.1XX
 - C4 CAT-5 ; 10.100.1.137

47" WALL MOUNTED PRINCIPAL'S OFFICE



VICTOR MONITORING CLIENT



PRINCIPAL'S DESK WEB CLIENT

CAMERA SWITCH 2

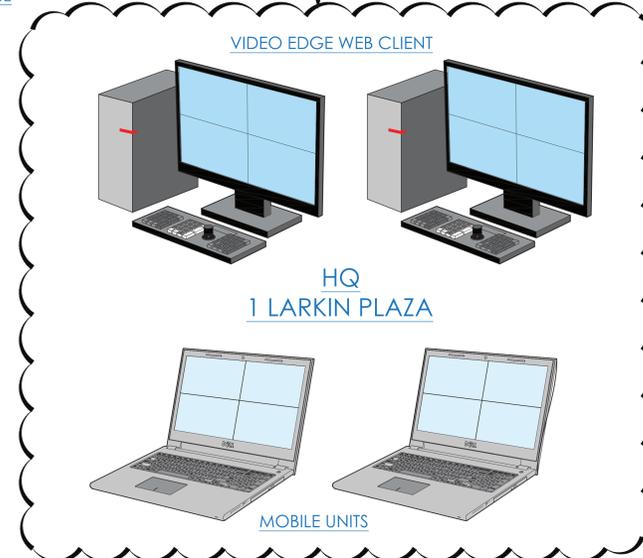


- TYPICAL
- C1 CAT-5 ; 10.100.1.134
 - C2 CAT-5 ; 10.100.1.135
 - C3 CAT-5 ; 10.100.1.1XX
 - C4 CAT-5 ; 10.100.1.137

FIBER CONNECTION OR DEDICATED CAT 6e

BOARD OF EDUCATION

VIDEO EDGE WEB CLIENT



- 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 THE SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-6 WIRE, 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 'ROUND' AS BUILT SET IN BOTH 'D' SET HARD COPY (12 SET) 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
	11/10/2018	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

This CAD set and all inventions, ideas, designs, details and methods shown here are the property of ITG Larson, Inc. and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

PROJECT: YONKERS BOE SCHOOLS

565 WARBURTON AVE
YONKERS, NY 10701

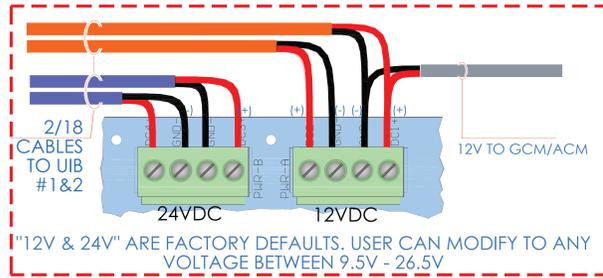
TITLE: CCTV ONE LINE DIAGRAM

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:	DRAWING NO:	
XXXXXX	SE-303	

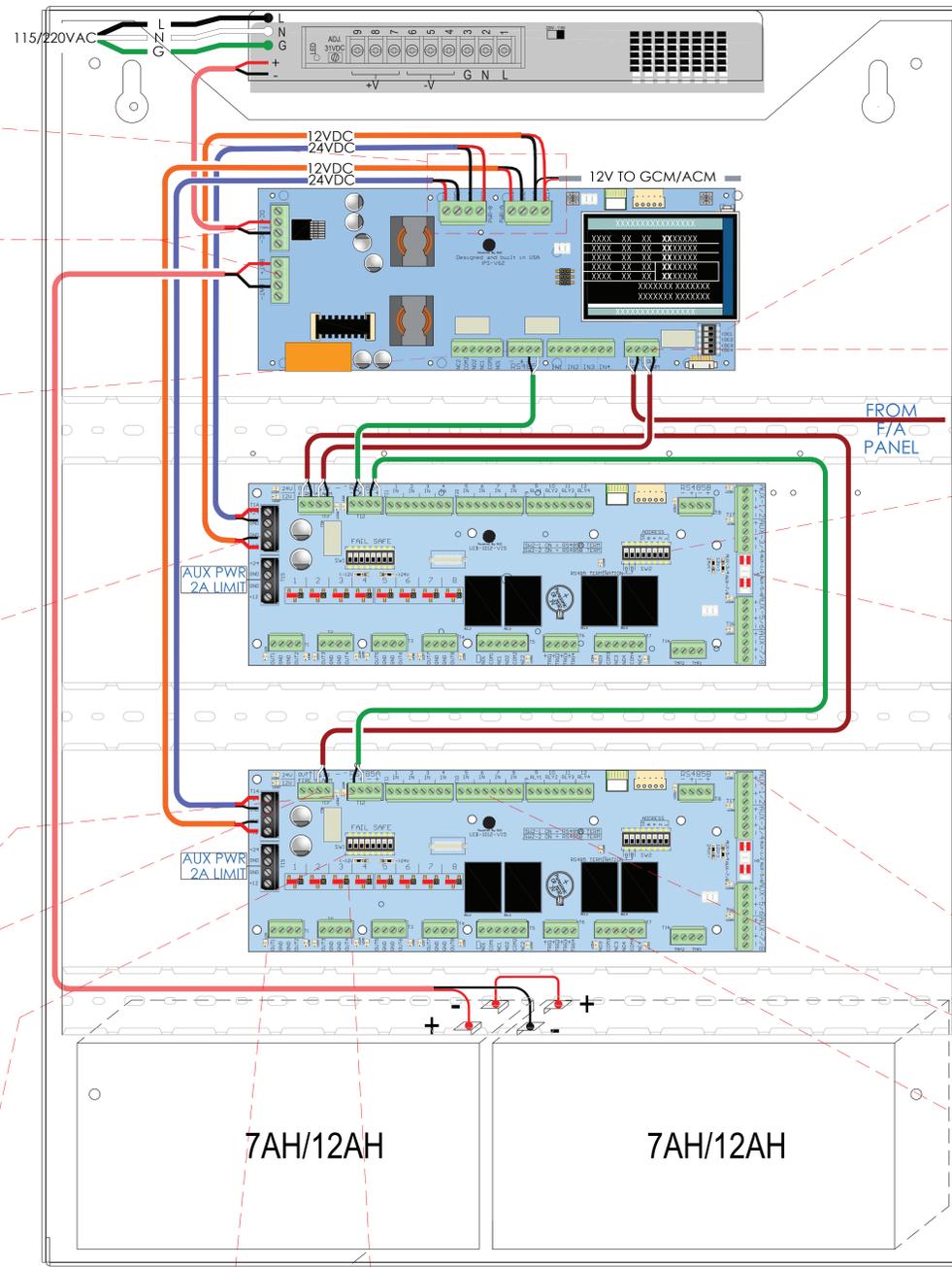
P-FORCE 1 - WIRING OF SPS/UIB

- 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 DRAWING SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF FIRE SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-4 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CAT-4 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 "ROUND AS BUILT" SET IN BOTH "D" SET HARD COPY ("D" SET) AND A "C" SET WITH "PDF" FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITO'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

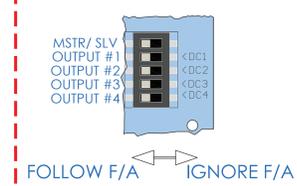
SPS OUT POWER CONNECTIONS



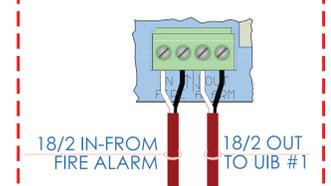
FOLLOW LOCAL AND NATIONAL ELECTRICAL WIRING CODES



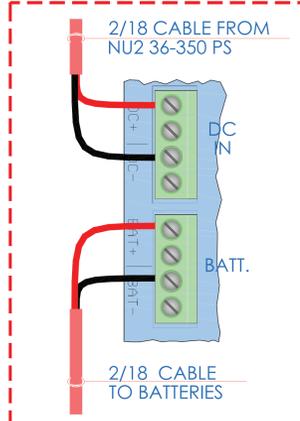
FIRE ALARM OUTPUT CONTROL



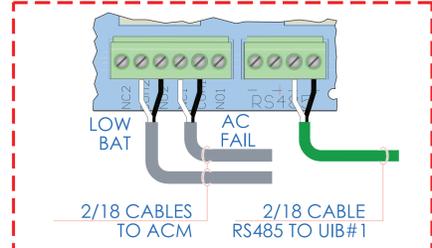
FIRE ALARM



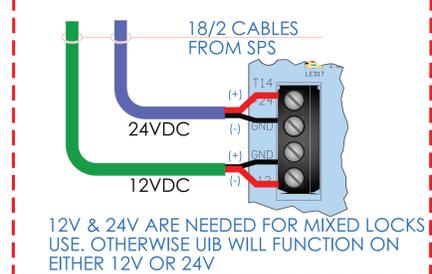
IN PWR & BAT CONNECTION



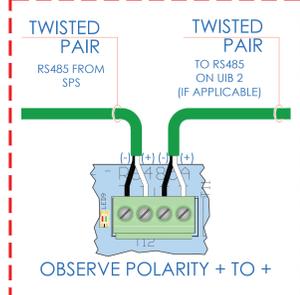
AC FAIL/LO BAT & RS485 COMM



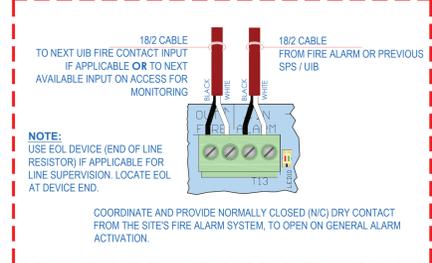
UIB INPUT 12/24VPOWER FROM SPS



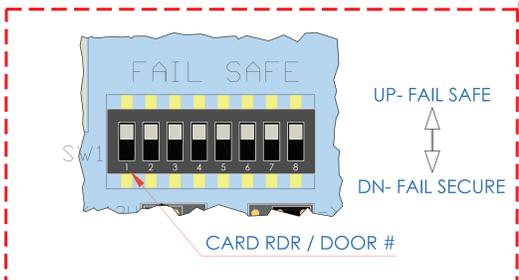
RS485 COMM



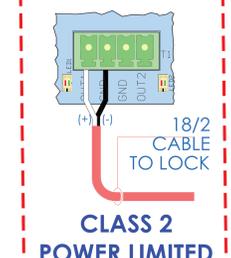
FIRE ALARM INTERFACE



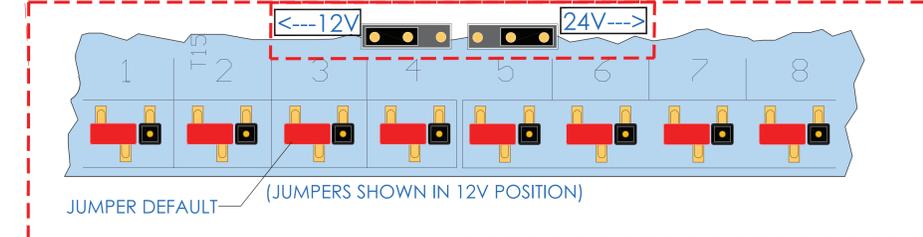
ELECTRIFIED LOCK SELECTOR FAIL SAFE/FAIL SECURE



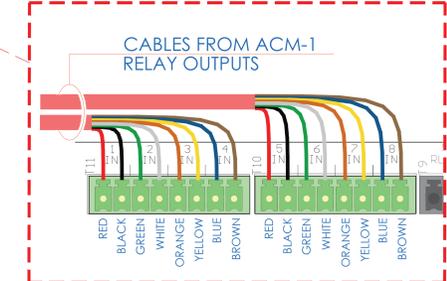
TYP. LOCK PWR - DOOR#1



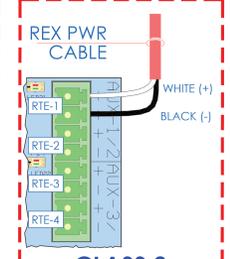
LOCK VOLTAGE SELECTOR JUMPER SETTINGS



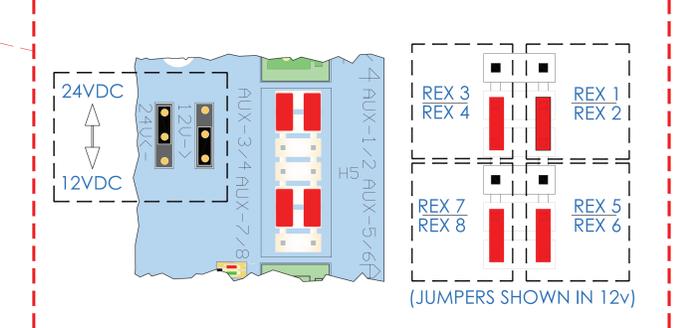
TYP. UIB INPUT CONNECTIONS



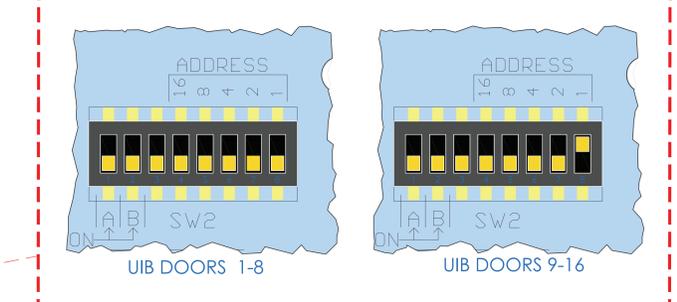
RTE POWER FOR READER-1



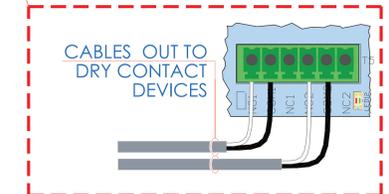
RTE POWER SETTINGS FOR DOORS 1 THRU 8



DIP SWITCH SETTINGS FOR DOOR ADDRESSING



TYPICAL DRY CONTACT CONNECTIONS



ISSUED FOR:	DATE	COMMENTS
	11/02/2018	ISSUED FOR REVIEW / APPROVAL
	02/18/2019	ISSUED FULL SET FOR APPROVAL
	02/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
	07/15/2019	REVISED
	02/26/2019	ISSUED FOR BID
	10/26/2019	REVISED-ISSUED FOR BID
	11/15/2020	REVISED-ISSUED FOR BID



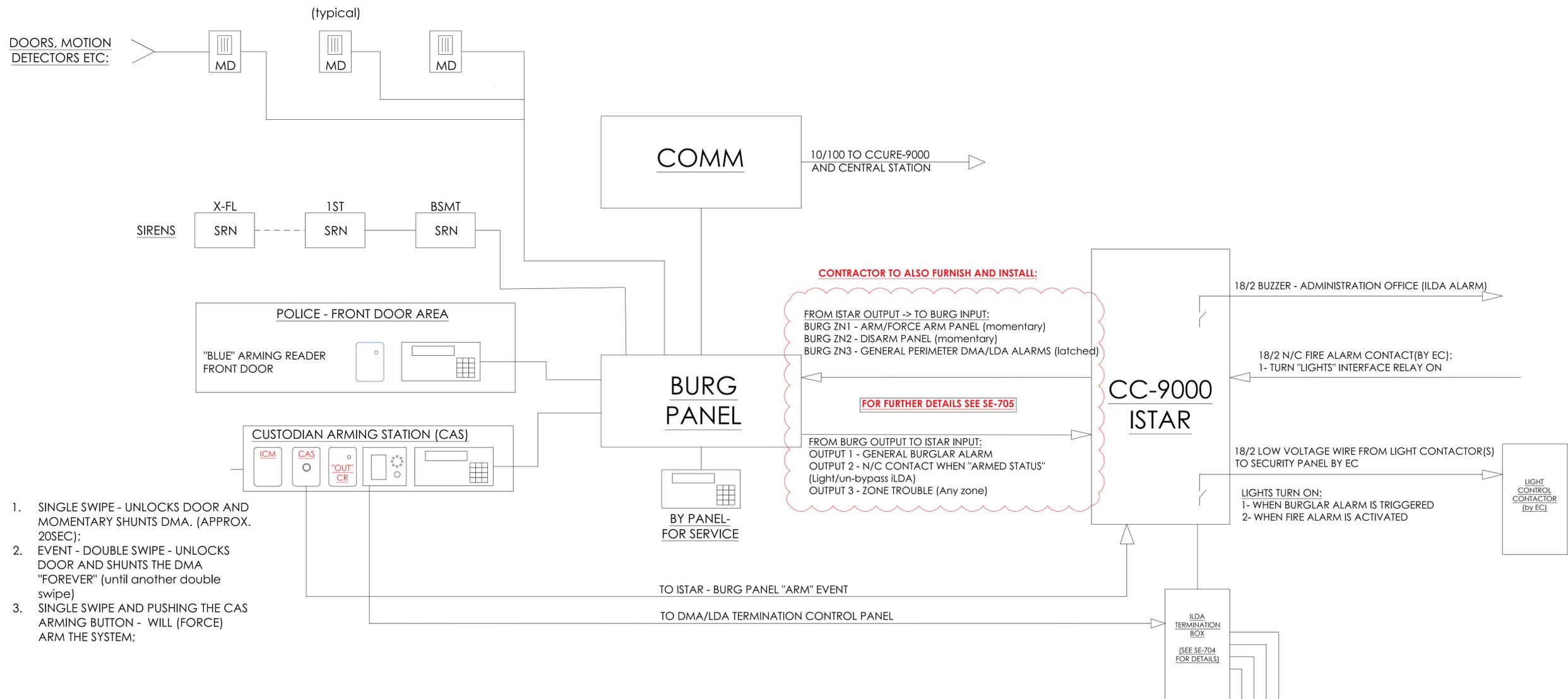
This CAD set and all inventors, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

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

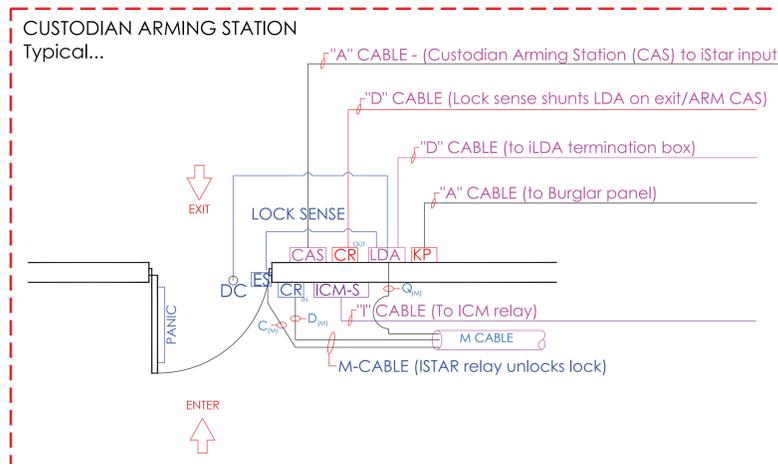
BURGLAR & ACCESS - OVERALL SYSTEMS INTERFACES - ONE LINE



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

EVENTS PROGRAMMING:

- ENTERING FROM OUTSIDE:
 - UNLOCK CUSTODIAN DOOR USING THE "M" CABLE PORT /RELAY FOR THE "IN READER" (MUST BE ADA PERSON IN CCURE SOFTWARE)
 - EVENT - DISARM BURGLAR ALARM VIA API AND DRY CONTACTS (ZN2)
 - EVENT - TURN BUILDING'S HALLWAY LIGHTS
 - EVENT - SHUNTS DOOR'S LDA/DMA USING THE LOCK SENSE FEATURE
- EXITING FROM INSIDE - PRESENTING A VALID CARD WILL:
 - SHUNTS DOOR'S LDA/DMA USING THE LOCK SENSE FEATURE
 - 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
 - WHEN BURGLAR PANEL ARMS - SHUT OFF BUILDING'S LIGHTS



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

- NOTES:**
- DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 - 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 CITY USE.
 - CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE SECURITY MANAGER.
 - PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 - ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 - CONTRACTOR TO MAKE ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT" DRAWINGS.
 - CONTRACTOR TO PRODUCE AND DELIVER A "ROUND" AS BUILT SET IN BOTH "D" AND "H" HAND COPY (1/2" AND 1/4" SCALE) WITH "PDF" FORMAT.
 - CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITS 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	REVISD
	8/26/2019	ISSUED FOR BID
	10/6/2019	REVISD-ISSUED FOR BID
	1/15/2020	REVISD-ISSUED FOR BID



This CAD set and all inventions, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

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

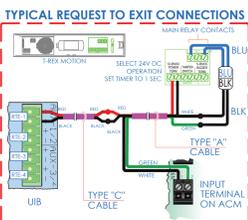
TITLE:
BURGLAR & ACCESS INTERFACE

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:	DRAWING NO:	
XXXXXX	SE-701	

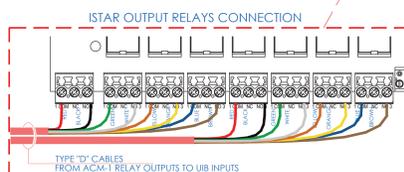
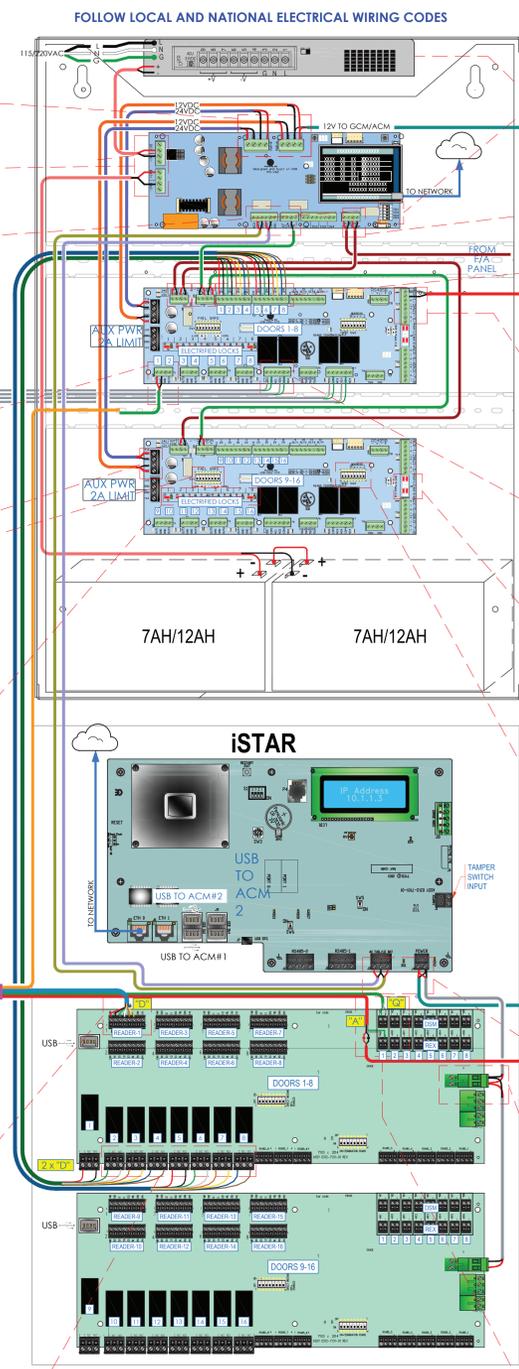
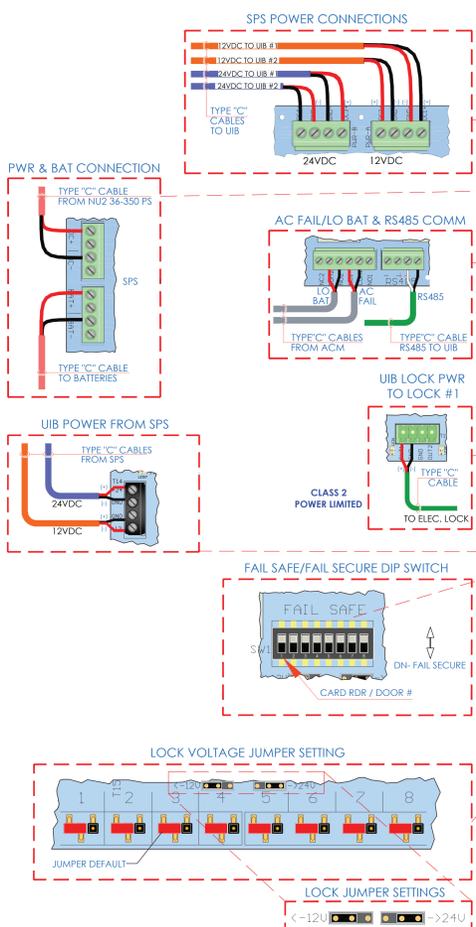
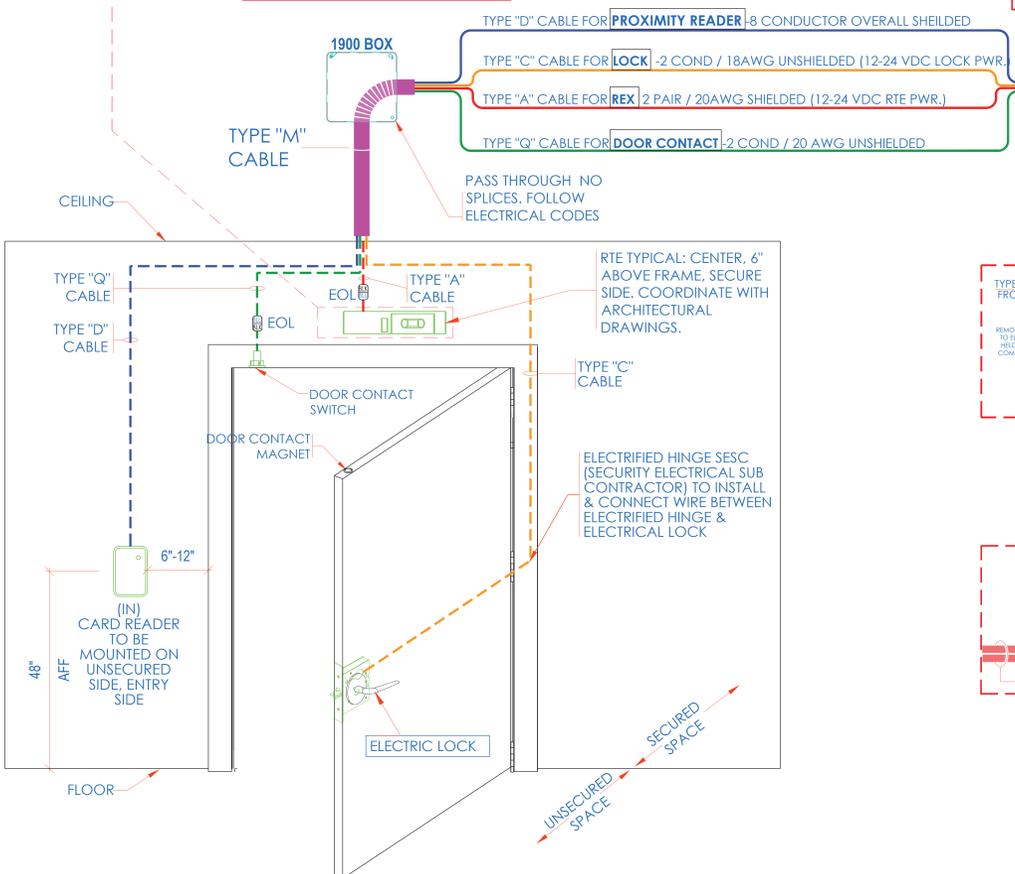
ULTRA SE TYPICAL WIRING DIAGRAM - MOTION REX

READER CONNECTIONS			DOOR CONTACTS CONNECTIONS			MOTION DETECTOR CONNECTIONS		
DOOR	iSTAR		DOOR	INPUT	ACM	DOOR	INPUT	ACM
DOOR 1	RDR 1	ACM 1	DOOR 1	IN 1	1	DOOR 1	IN 9	1
DOOR 2	RDR 2		DOOR 2	IN 2	1	DOOR 2	IN 10	1
DOOR 3	RDR 3		DOOR 3	IN 3	1	DOOR 3	IN 11	1
DOOR 4	RDR 4		DOOR 4	IN 4	1	DOOR 4	IN 12	1
DOOR 5	RDR 5	ACM 1	DOOR 5	IN 5	1	DOOR 5	IN 13	1
DOOR 6	RDR 6		DOOR 6	IN 6	1	DOOR 6	IN 14	1
DOOR 7	RDR 7		DOOR 7	IN 7	1	DOOR 7	IN 15	1
DOOR 8	RDR 8		DOOR 8	IN 8	1	DOOR 8	IN 16	1
DOOR 9	RDR 1	ACM 2	DOOR 9	IN 1	2	DOOR 9	IN 9	2
DOOR 10	RDR 2		DOOR 10	IN 2	2	DOOR 10	IN 10	2
DOOR 11	RDR 3		DOOR 11	IN 3	2	DOOR 11	IN 11	2
DOOR 12	RDR 4		DOOR 12	IN 4	2	DOOR 12	IN 12	2
DOOR 13	RDR 5	ACM 2	DOOR 13	IN 5	2	DOOR 13	IN 13	2
DOOR 14	RDR 6		DOOR 14	IN 6	2	DOOR 14	IN 14	2
DOOR 15	RDR 7		DOOR 15	IN 7	2	DOOR 15	IN 15	2
DOOR 16	RDR 8		DOOR 16	IN 8	2	DOOR 16	IN 16	2

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



MOTION REX



NOTE:

- THIS IS A DEVICE CONNECTION DRAWING SHOWING A TYPICAL DOOR SETUP. THIS MAY OR MAY NOT REPRESENT THE ELECTRIFIED HARDWARE BEING USED ON THIS PROJECT. SEE DOOR TYPICAL FOR MORE INFORMATION AND CONFIRM HARDWARE TYPE FOR EACH SPECIFIC LOCATION PRIOR TO ANY INSTALLATION.
- FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

- NOTES:**
- DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPE AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 - THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 - CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE SECURITY MANAGER.
 - PRIOR TO PULLING CAT-4 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 - ALL CAT-4 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 - CONTRACTOR TO MAKE ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE AS BUILT.
 - CONTRACTOR TO PRODUCE AND DELIVER A "AS BUILT" AS BUILT SET IN BOTH PDF AND HARD COPY (12x18) AND A CD WITH .PDS FORMAT.
 - CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. IT'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
1/15/2020	REVISED-ISSUED FOR BID



This CAD set and all inventors, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced or distributed without ITG's written consent and permission.

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

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

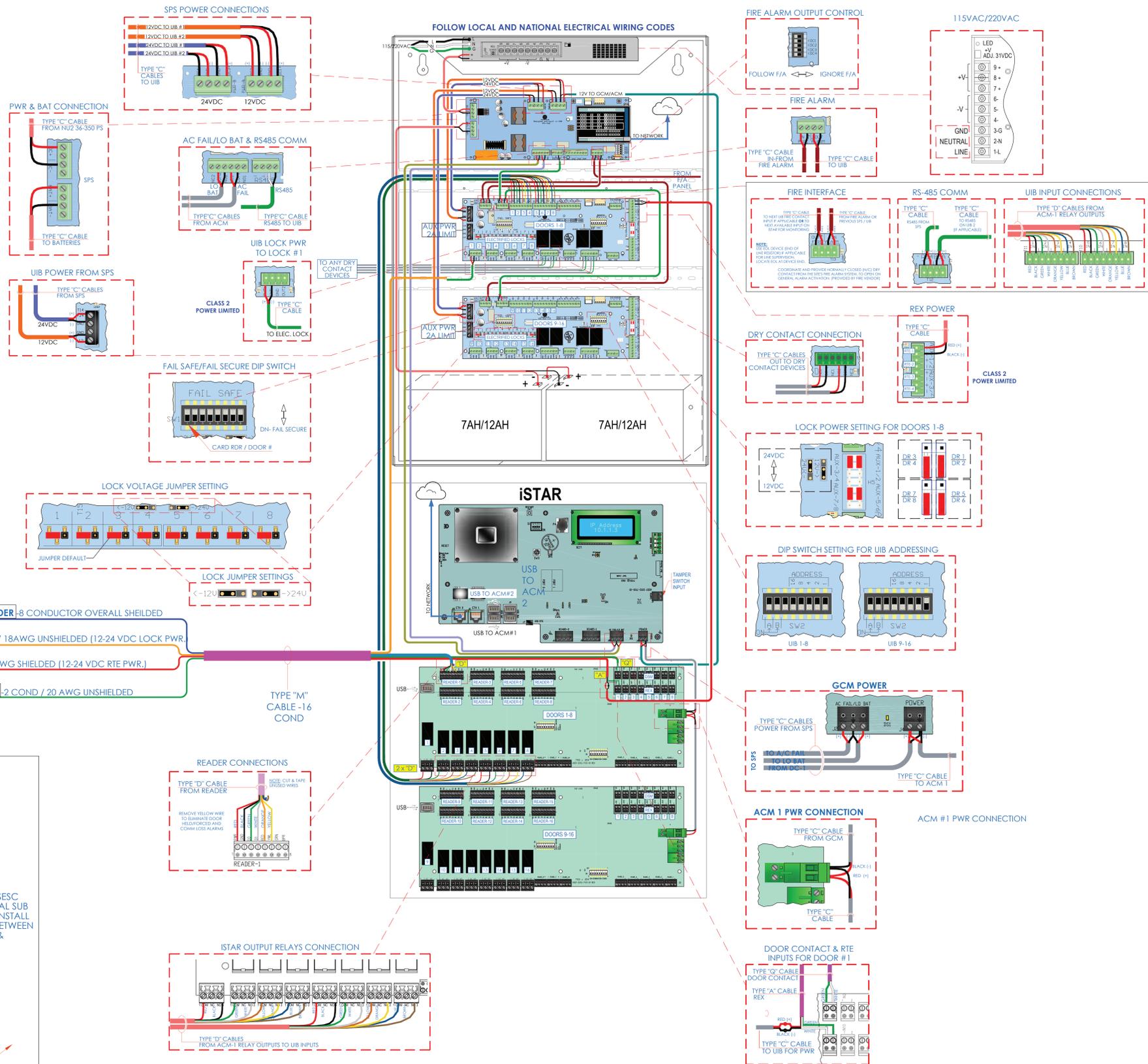
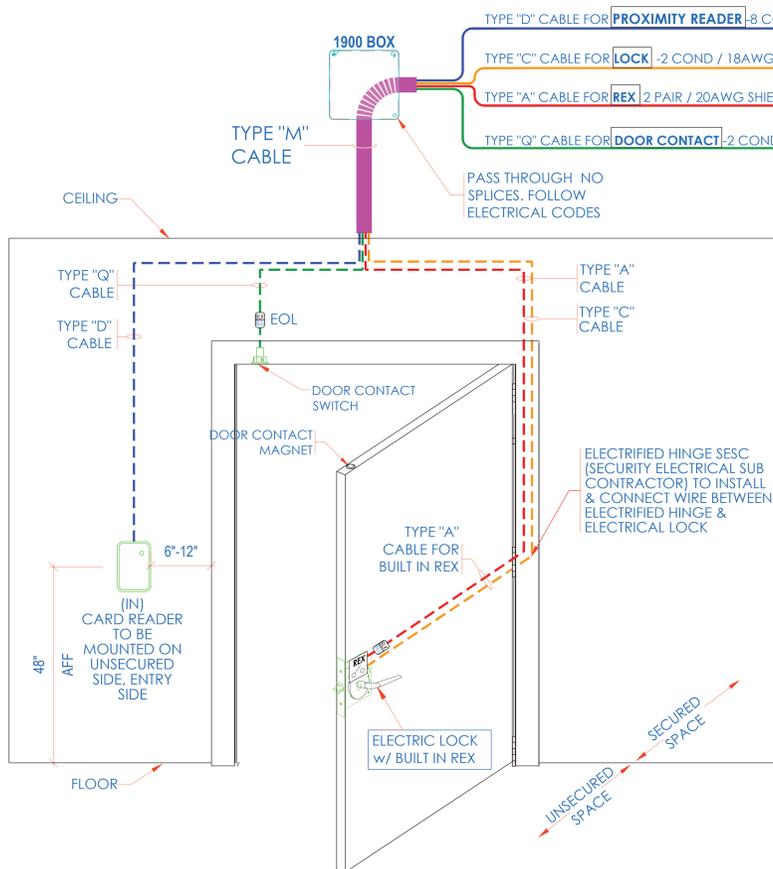
I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	11/27/2019
XXXXXX	SCALE:	N.T.S.
S.A. NO:	DRAWING NO:	
XXXXXX	SE-702-A	

ULTRA SE TYPICAL WIRING DIAGRAM - REX LOCK

READER CONNECTIONS		DOOR CONTACTS CONNECTIONS			MOTION DETECTOR CONNECTIONS		
DOOR	ISTAR	DOOR	INPUT	ACM	DOOR	INPUT	ACM
DOOR 1	RDR 1	DOOR 1	IN 1	1	DOOR 1	IN 9	1
DOOR 2	RDR 2		IN 2	1	DOOR 2	IN 10	1
DOOR 3	RDR 3		IN 3	1	DOOR 3	IN 11	1
DOOR 4	RDR 4		IN 4	1	DOOR 4	IN 12	1
DOOR 5	RDR 5	DOOR 5	IN 5	1	DOOR 5	IN 13	1
DOOR 6	RDR 6		IN 6	1	DOOR 6	IN 14	1
DOOR 7	RDR 7		IN 7	1	DOOR 7	IN 15	1
DOOR 8	RDR 8		IN 8	1	DOOR 8	IN 16	1
DOOR 9	RDR 1	DOOR 9	IN 1	2	DOOR 9	IN 9	2
DOOR 10	RDR 2		IN 2	2	DOOR 10	IN 10	2
DOOR 11	RDR 3		IN 3	2	DOOR 11	IN 11	2
DOOR 12	RDR 4		IN 4	2	DOOR 12	IN 12	2
DOOR 13	RDR 5	DOOR 13	IN 5	2	DOOR 13	IN 13	2
DOOR 14	RDR 6		IN 6	2	DOOR 14	IN 14	2
DOOR 15	RDR 7		IN 7	2	DOOR 15	IN 15	2
DOOR 16	RDR 8		IN 8	2	DOOR 16	IN 16	2

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

REX IN LOCK



NOTE:
 • THIS IS A DEVICE CONNECTION DRAWING SHOWING A TYPICAL DOOR SETUP. THIS MAY OR MAY NOT REPRESENT THE ELECTRIFIED HARDWARE BEING USED ON THIS PROJECT. SEE DOOR TYPICAL FOR MORE INFORMATION AND CONFIRM HARDWARE TYPE FOR EACH SPECIFIC LOCATION PRIOR TO ANY INSTALLATION.
 • FIELD VERIFY EXACT LOCATION OF CARD READERS & OTHER DOOR DEVICES AT PROPER SIDE OF DOOR.

- NOTES:**
1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPE AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO THE JOB.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-4 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CAT-4 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 6. CONTRACTOR TO MAKE ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE AS BUILT.
 7. CONTRACTOR TO PRODUCE AND DELIVER A "ROUND" AS BUILT SET IN BOTH "D" SET HARD COPY (1/2" & 1/4" SCALE) 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
ISSUED FOR REVIEW / APPROVAL	11/02/2018	
ISSUED FULL SET FOR APPROVAL	2/18/2019	
REVIEWED & REVISED-ISSUED FOR APPROVAL	2/19/2019	
REVIEWED	7/15/2019	
ISSUED FOR BID	8/26/2019	
REVIEWED-ISSUED FOR BID	10/6/2019	
REVIEWED-ISSUED FOR BID	11/15/2020	



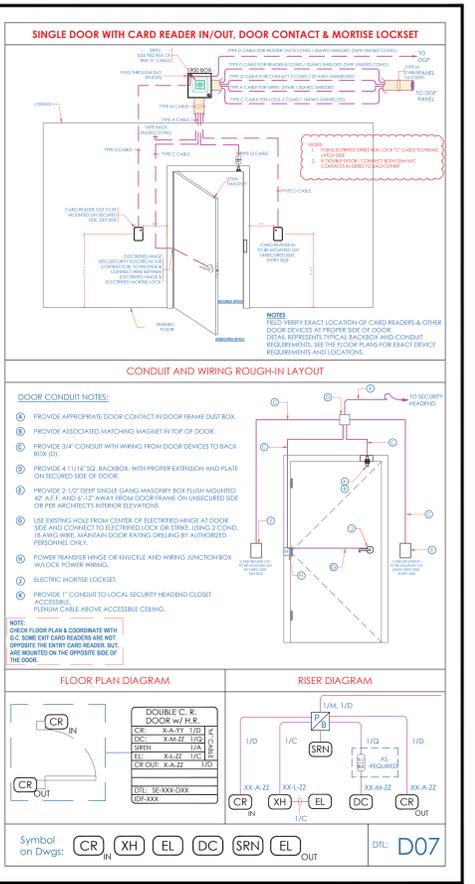
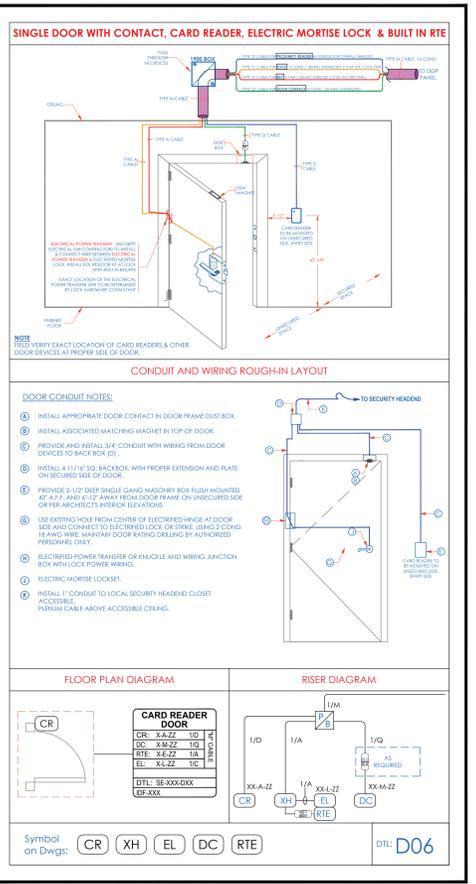
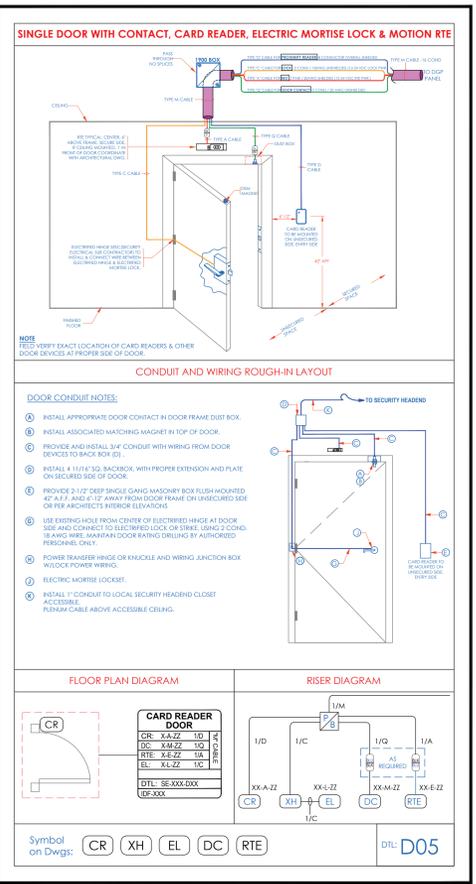
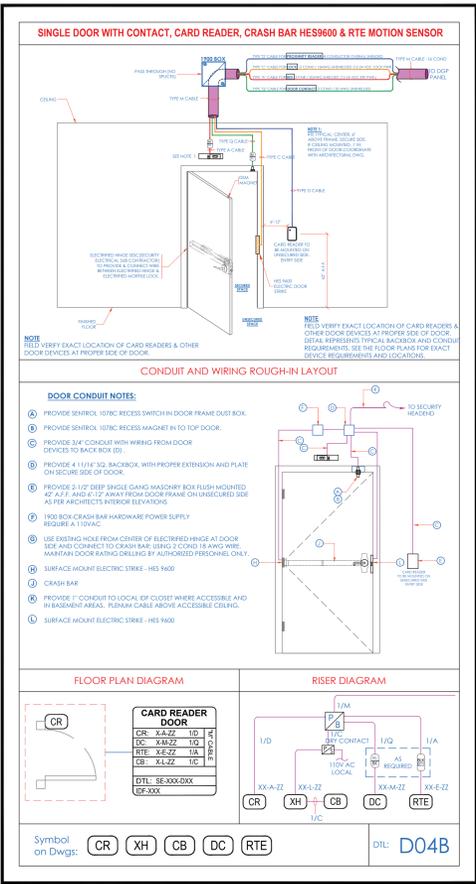
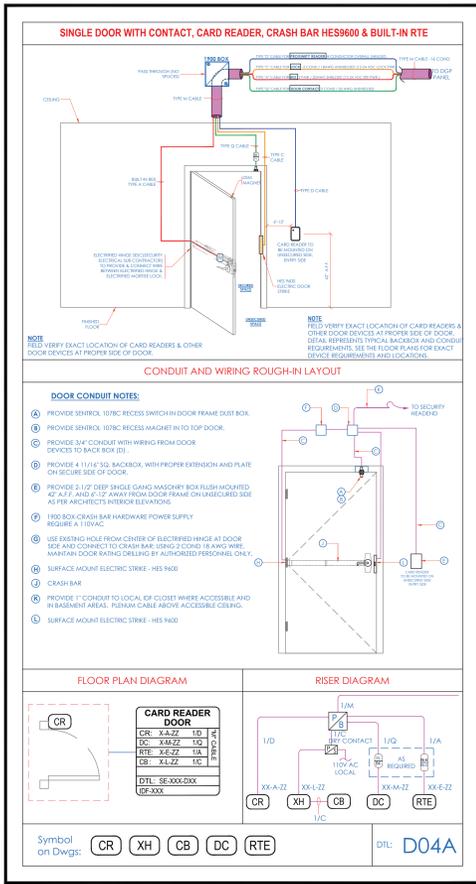
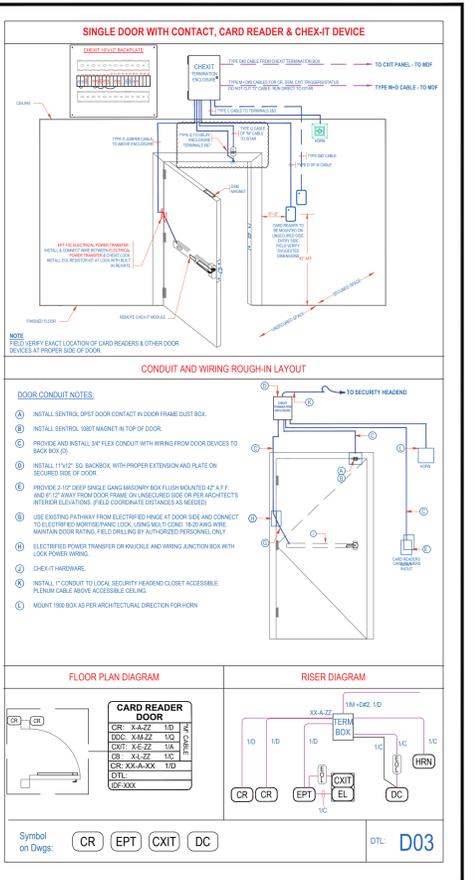
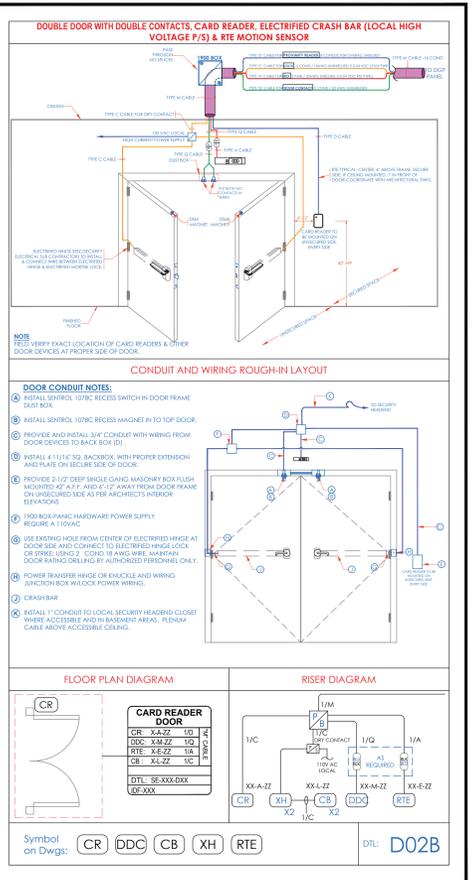
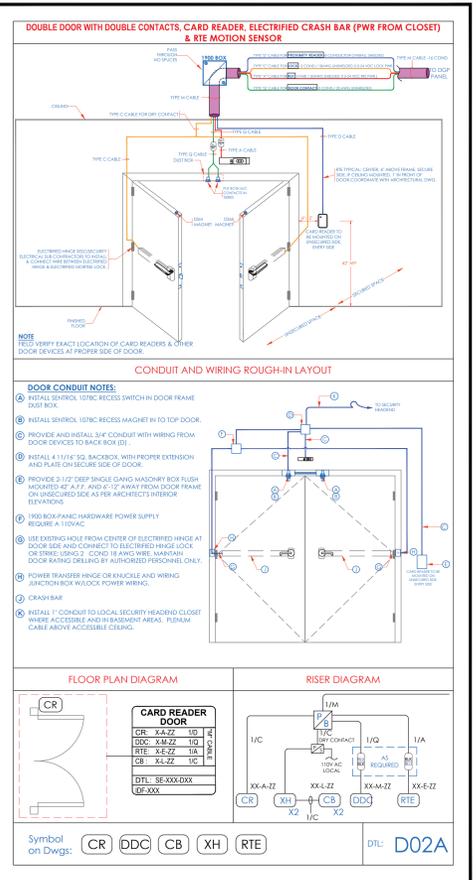
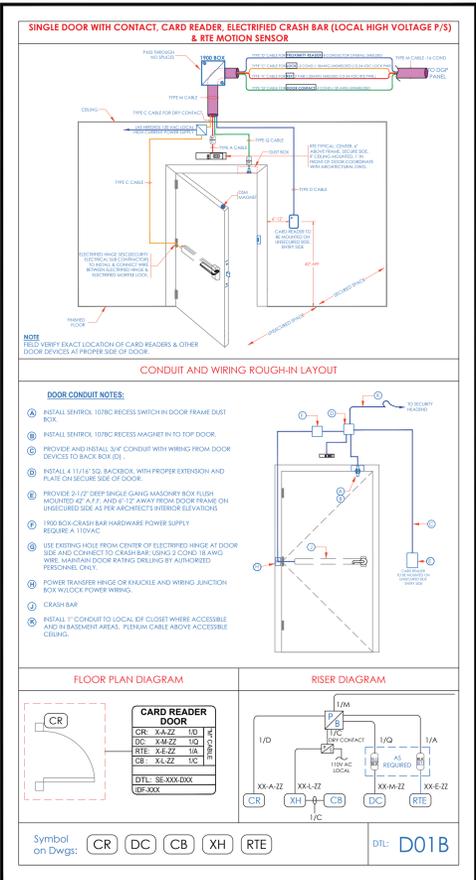
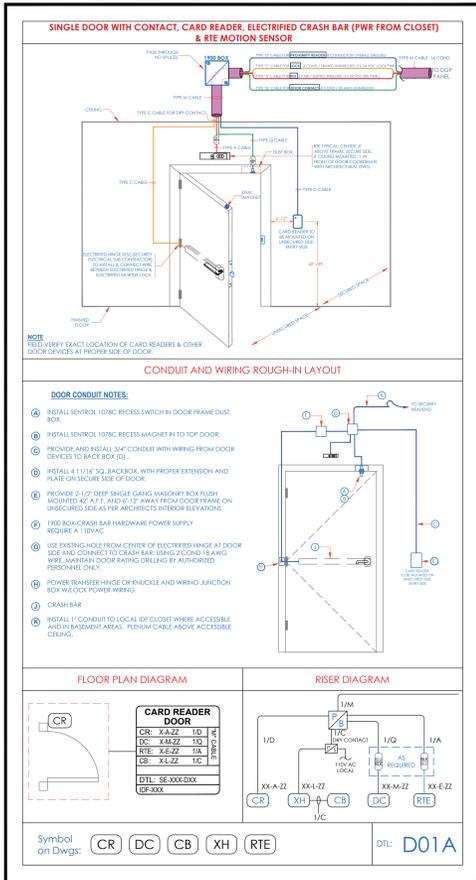
ITG Larson, Inc.
 155 Lafayette Ave
 White Plains, NY 10603

This CAD set and all inventors, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced or distributed without ITG's written consent and permission.

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



NOTES:

- DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
- 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 THE JOB.
- CONTRACTOR TO VERIFY CAMERA'S FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE SECURITY MANAGER.
- PRIOR TO PULLING CAT-5 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
- ALL CAT-5 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
- CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT" ROUND-AS-BUILT SET IN BOTH "TO BE" AND "COPY" (IF APPLICABLE) AND A CD WITH ".PDF" FORMAT.
- CONTRACTOR TO PRODUCE AND DELIVER A ROUND-AS-BUILT SET IN BOTH "TO BE" AND "COPY" (IF APPLICABLE) AND A CD WITH ".PDF" FORMAT.
- CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. IT'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

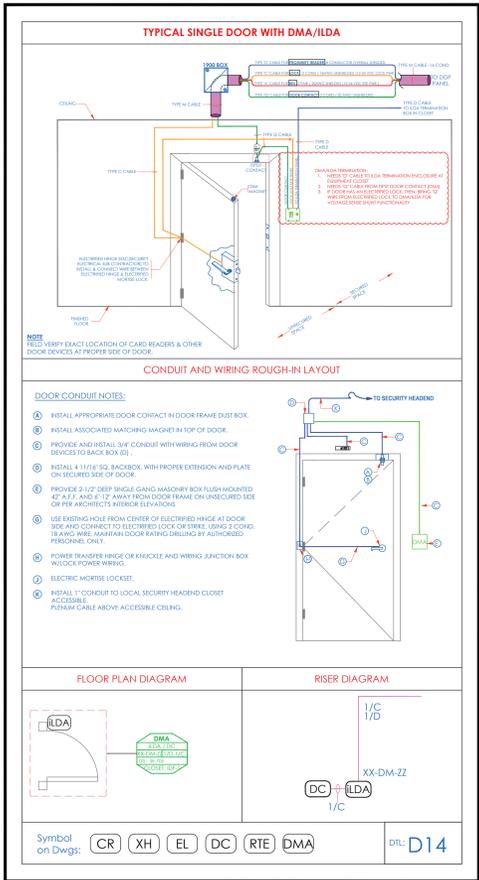
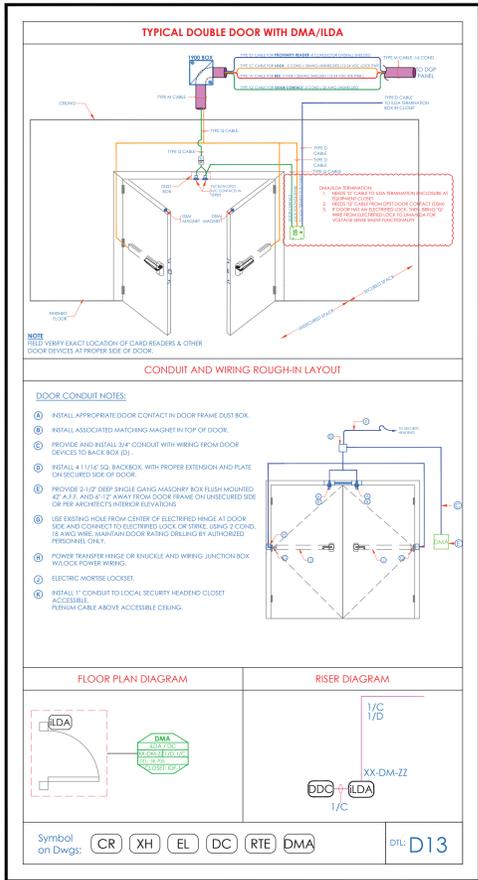
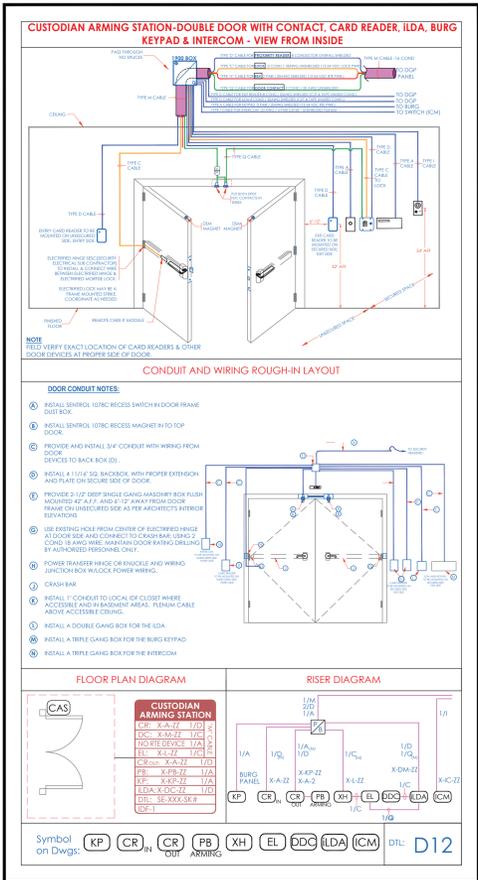
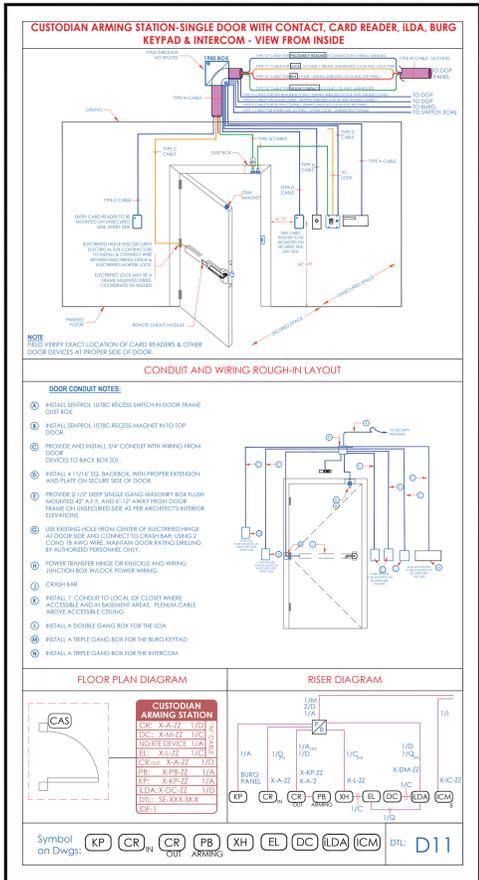
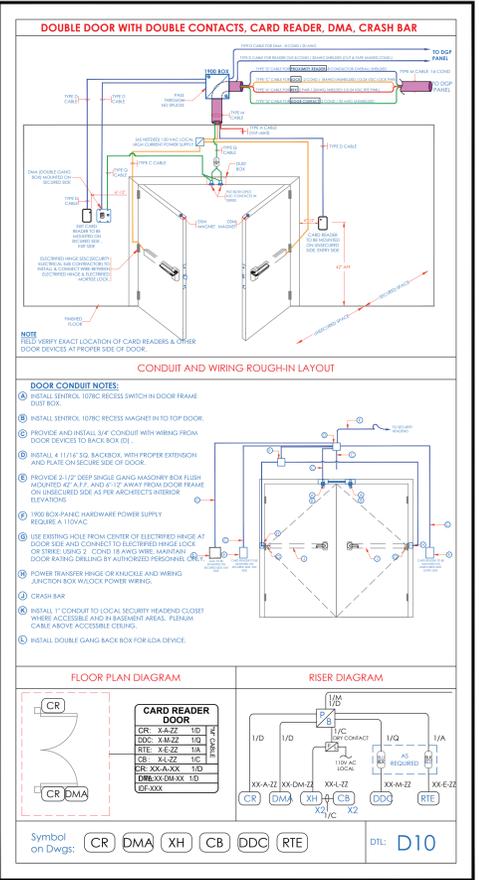
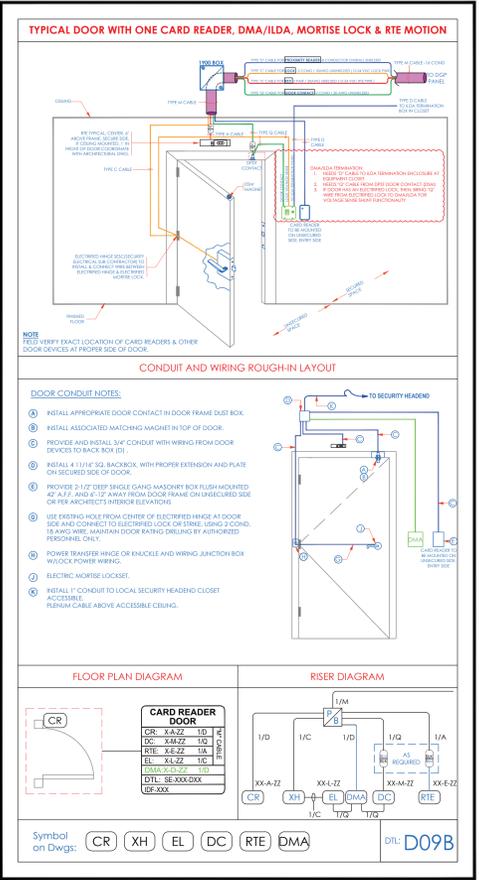
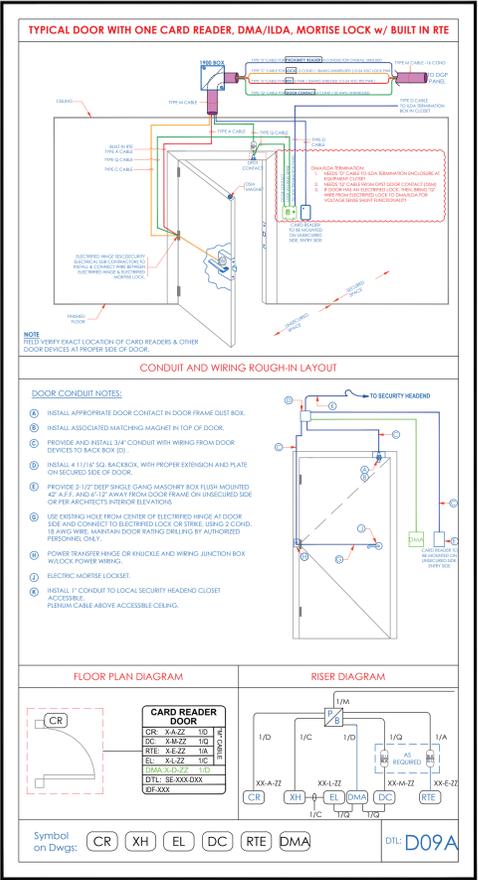
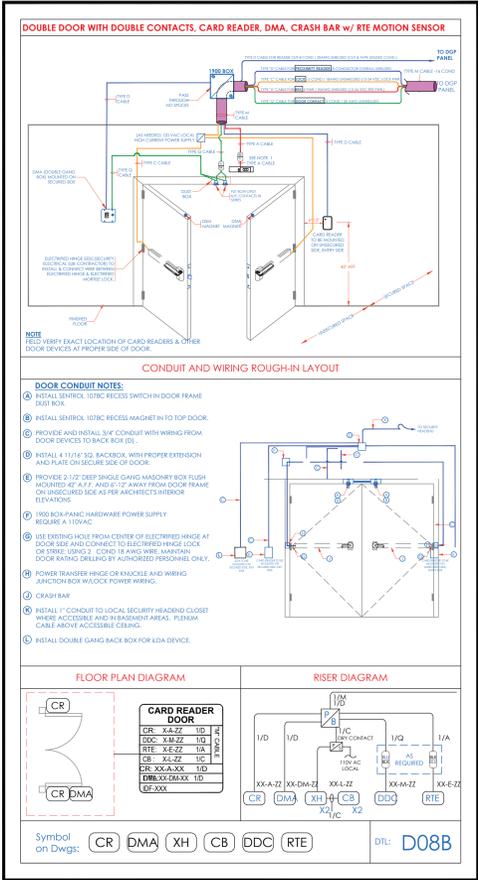
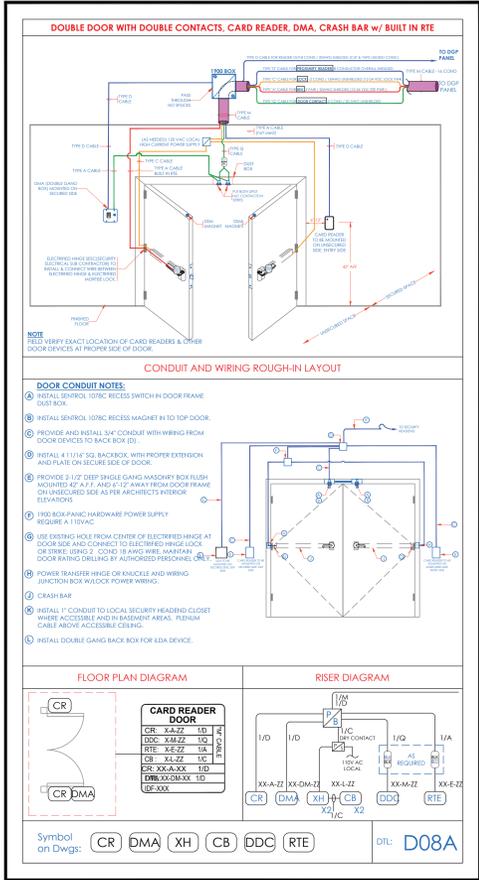
ITG Larson, Inc.
155 Lafayette Ave
White Plains, NY 10603

This CAD set and all inventories, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced or distributed without ITG's written consent and permission.

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

SECURITY EQUIPMENT DETAIL 1 DOOR TYPICALS

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-703	



- NOTES:
- DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 - THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 - CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE SECURITY MANAGER.
 - PRIOR TO PULLING CAT 5 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 - ALL CAT 5 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
 - CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT" DRAWING SET.
 - CONTRACTOR TO PRODUCE AND DELIVER A "BUILT" AS BUILT SET IN BOTH "D" SET HAND COPY (12 SET) AND A CD WITH ".PDF" FORMAT.
 - CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. IT'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

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

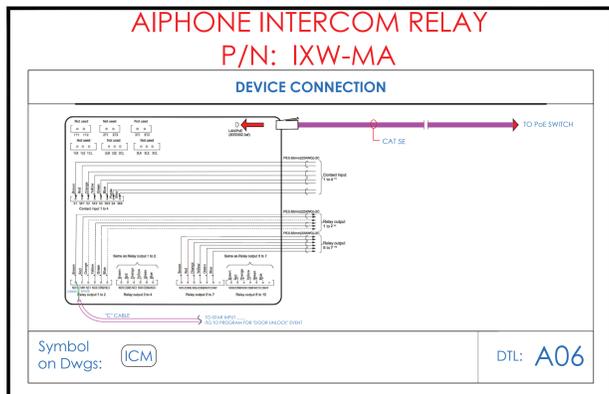
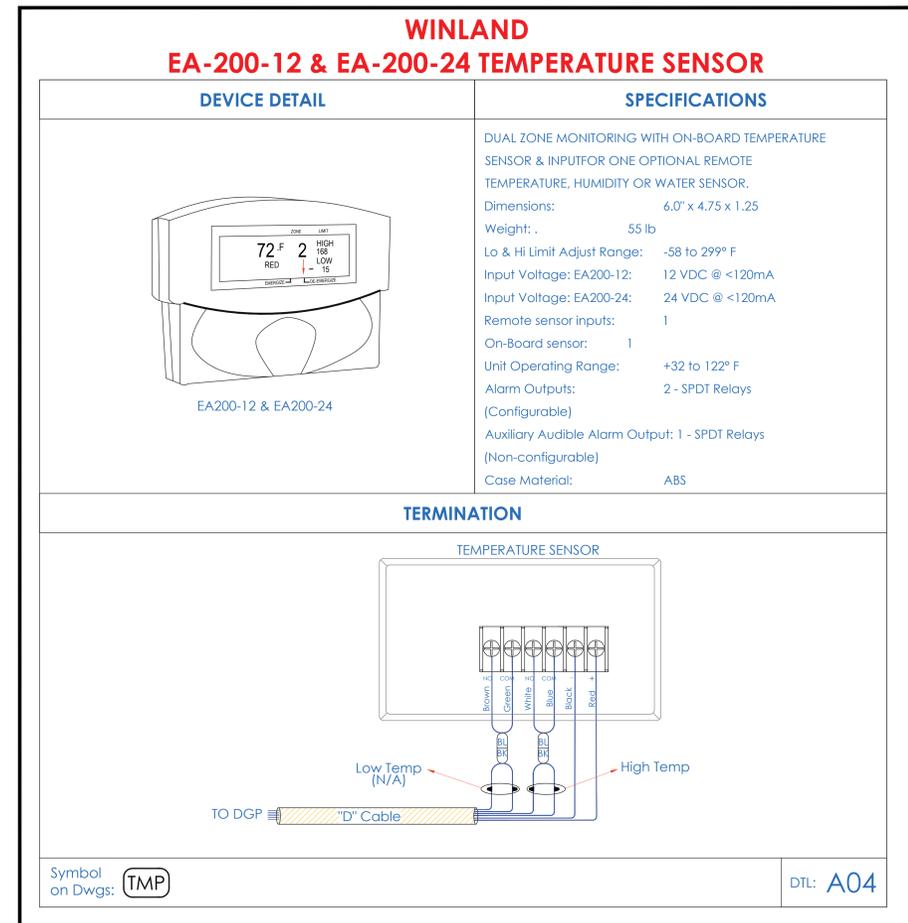
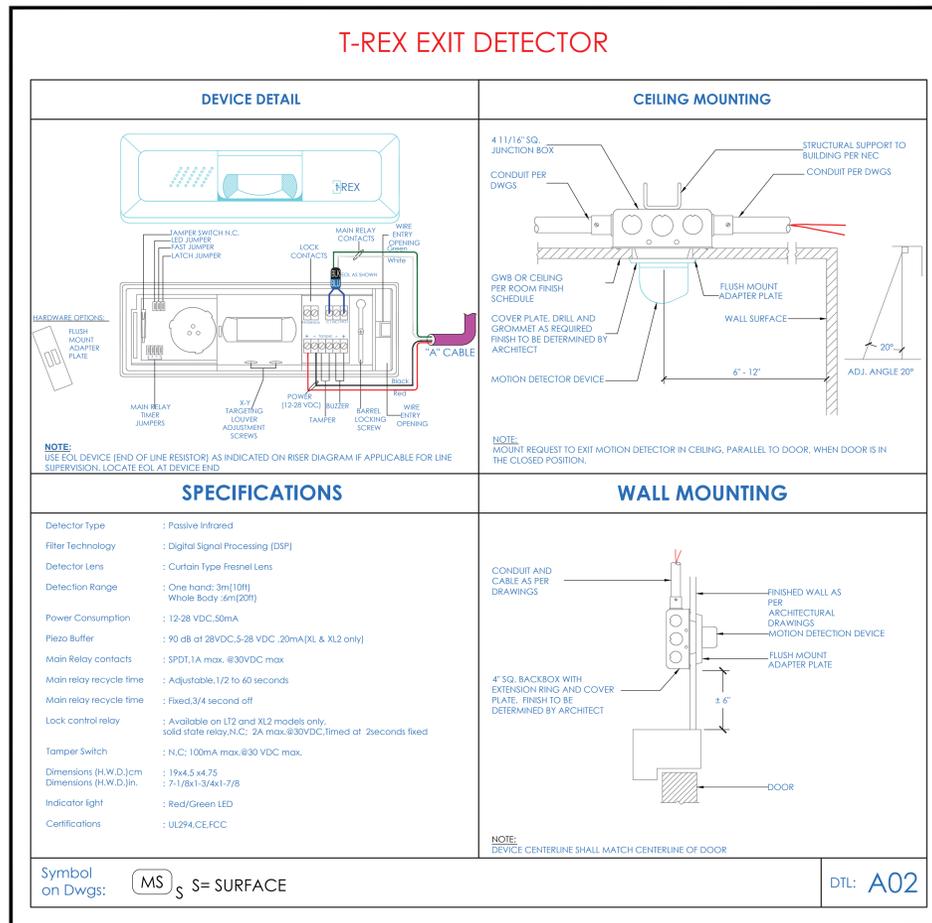
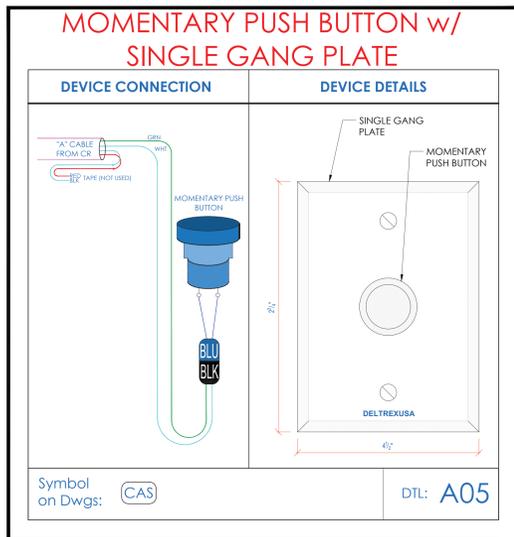
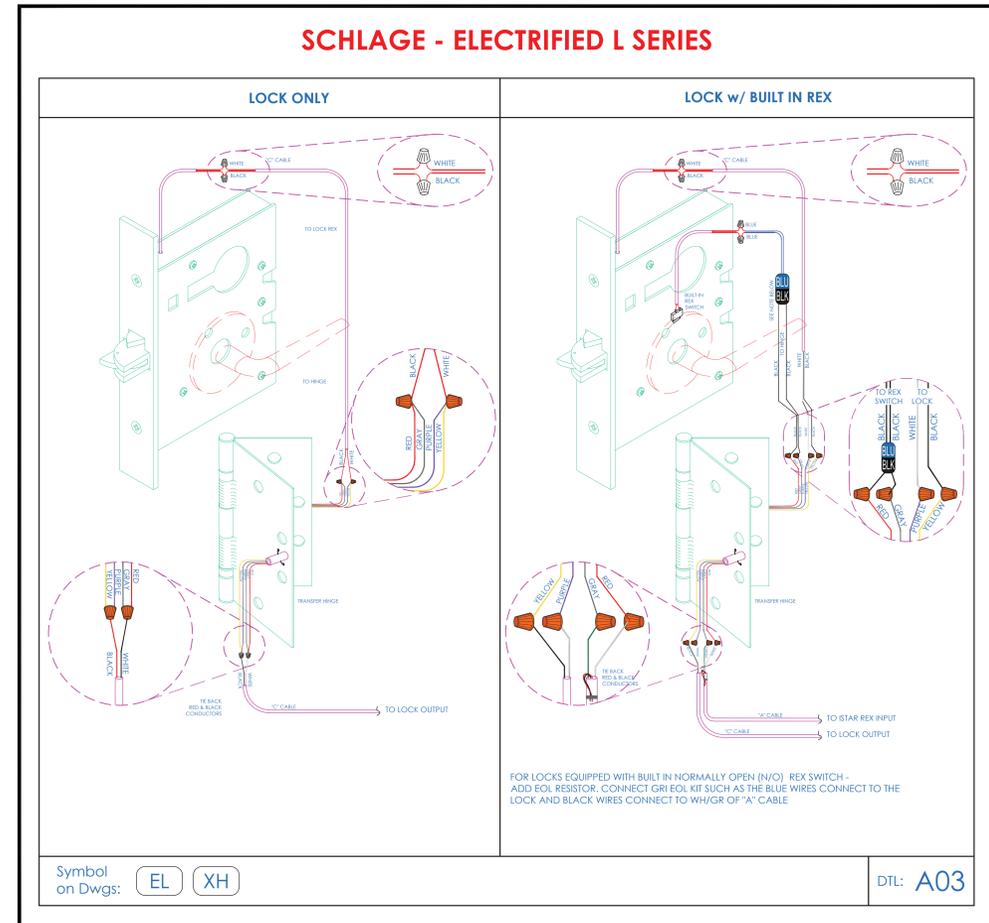
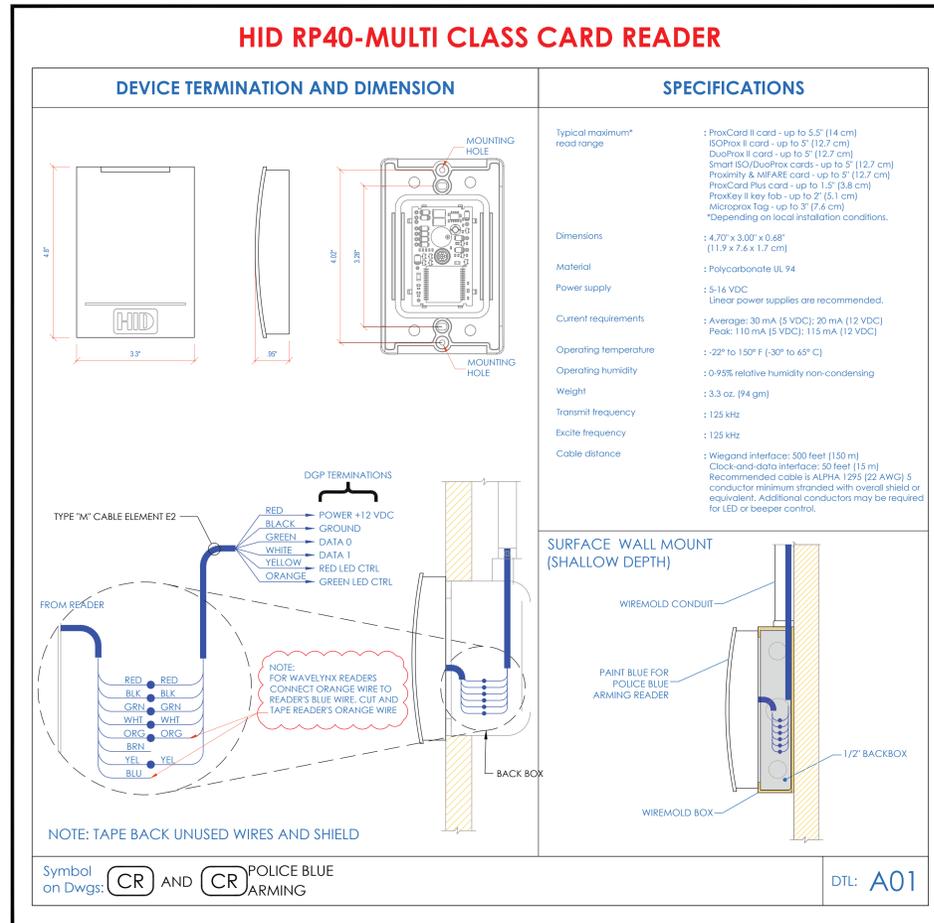
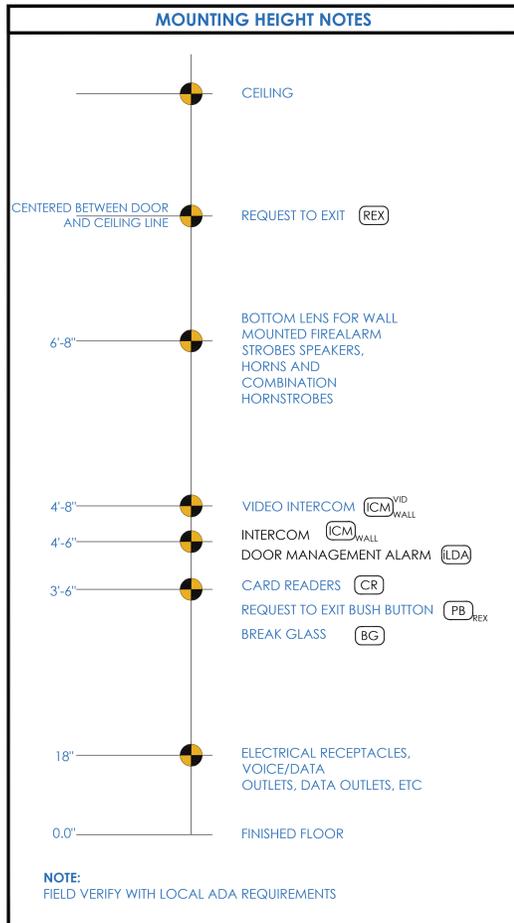


This CAD set and all inventories, ideas, designs, details and methods shown here are the property of ITG Larson, Inc. and may not be used, altered, reproduced or distributed without ITG's written consent and permission.

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	SCALE: N.T.S.
S.A. NO: XXXXXX	DRAWING NO: SE-703A	



NOTES:

1. DEVICE PLACEMENT, RISER DEPICTION, CABLE TYPE AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE SECURITY MANAGER.
4. PRIOR TO PULLING CAT 6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT 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 ROUND AS-BUILT SET IN BOTH PDF AND HARD COPY (1:100) AND A CD WITH PDF FORMAT.
8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. IT'S ROLE 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

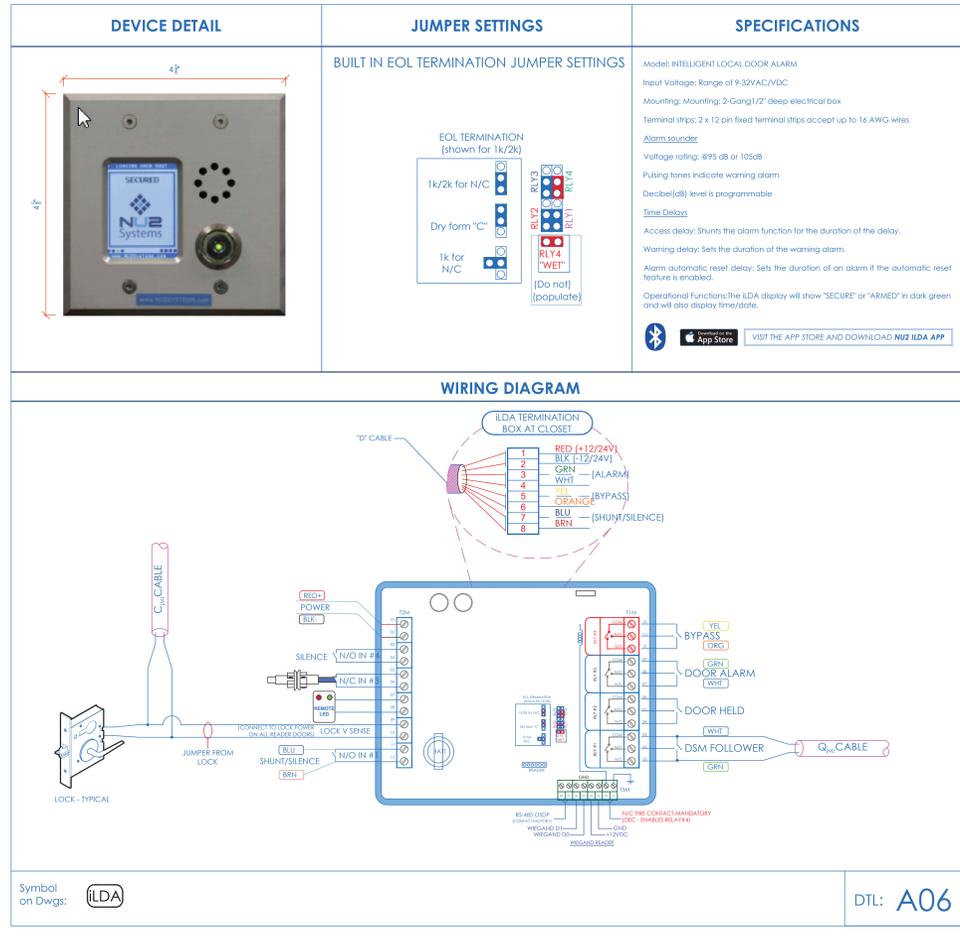
This CAD set and all inventors, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced or distributed without ITG's written consent and permission.

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

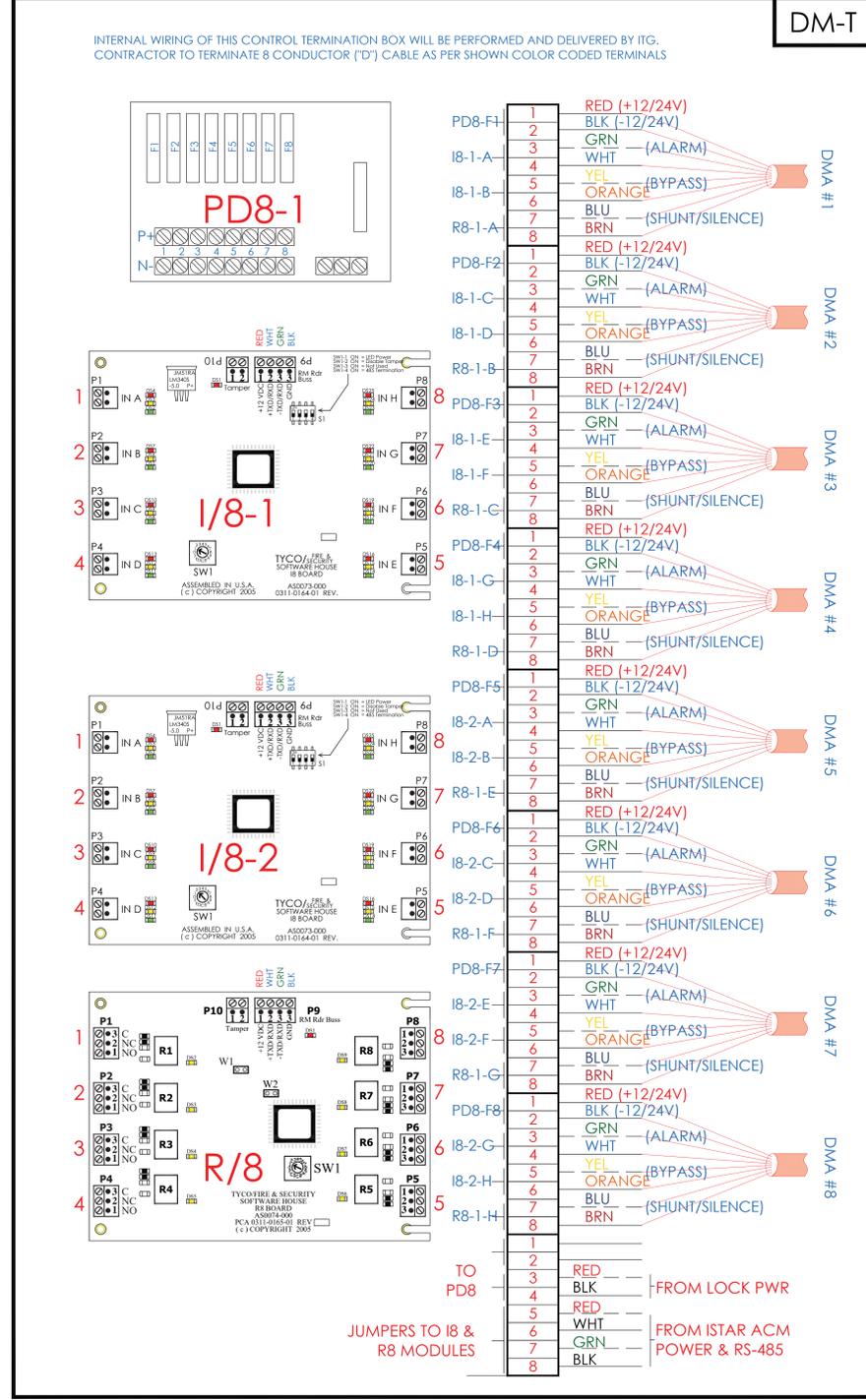
TITLE:
SECURITY EQUIPMENT DETAIL 2
ACCESS DEVICE TYPICALS

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:	DRAWING NO:	
XXXXXX	SE-704	

NU2 SYSTEMS - ILDA INTELLIGENT LOCAL DOOR ALARM



ILDA TERMINATIONS DMA DOORS 1-8



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

		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 DRAWING SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-6 WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT 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 "AS BUILT" SET IN BOTH "PDF" AND "DWG" FORMATS.
 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	
10/26/2019	REVISED-ISSUED FOR BID	
1/15/2020	REVISED-ISSUED FOR BID	

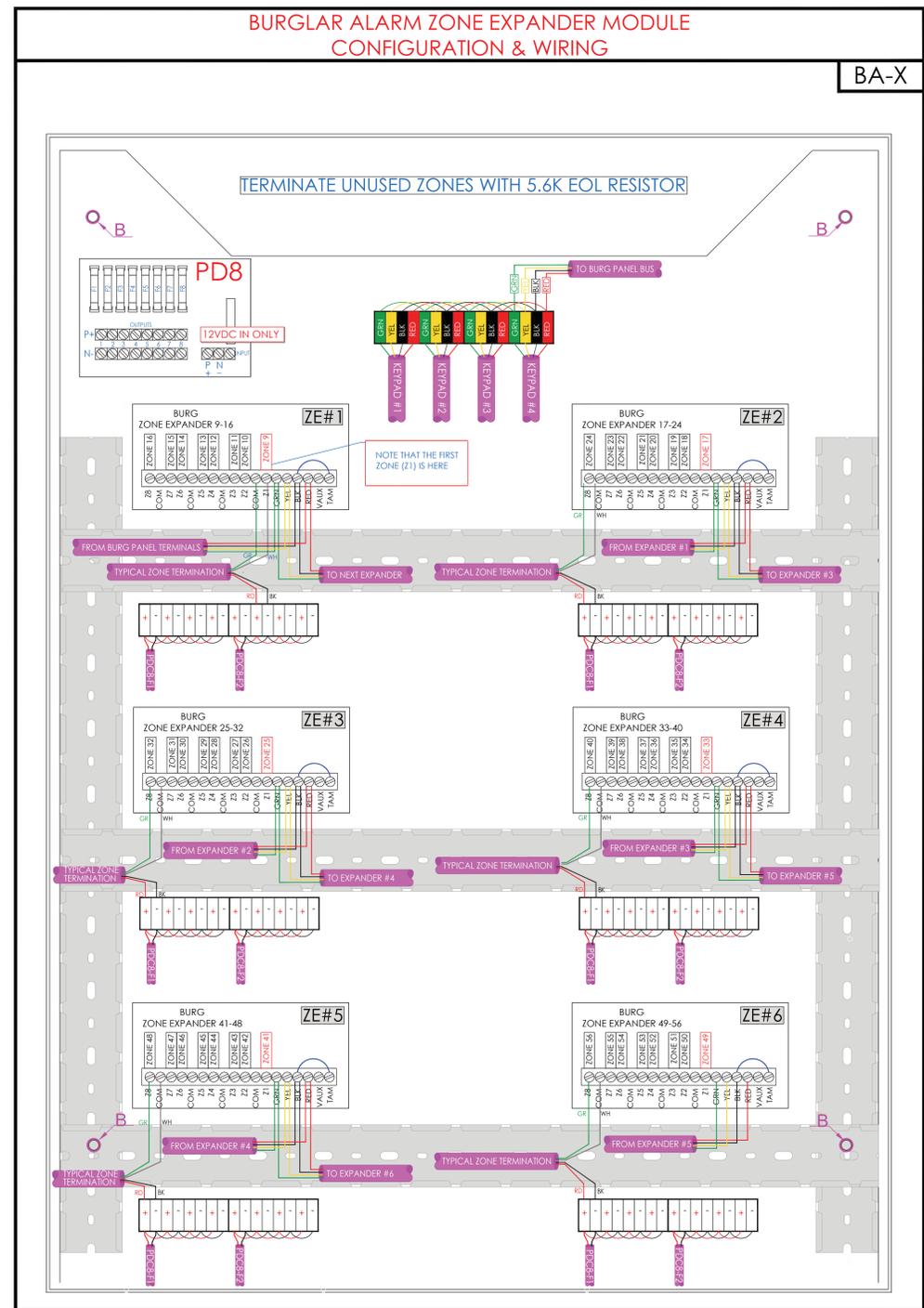
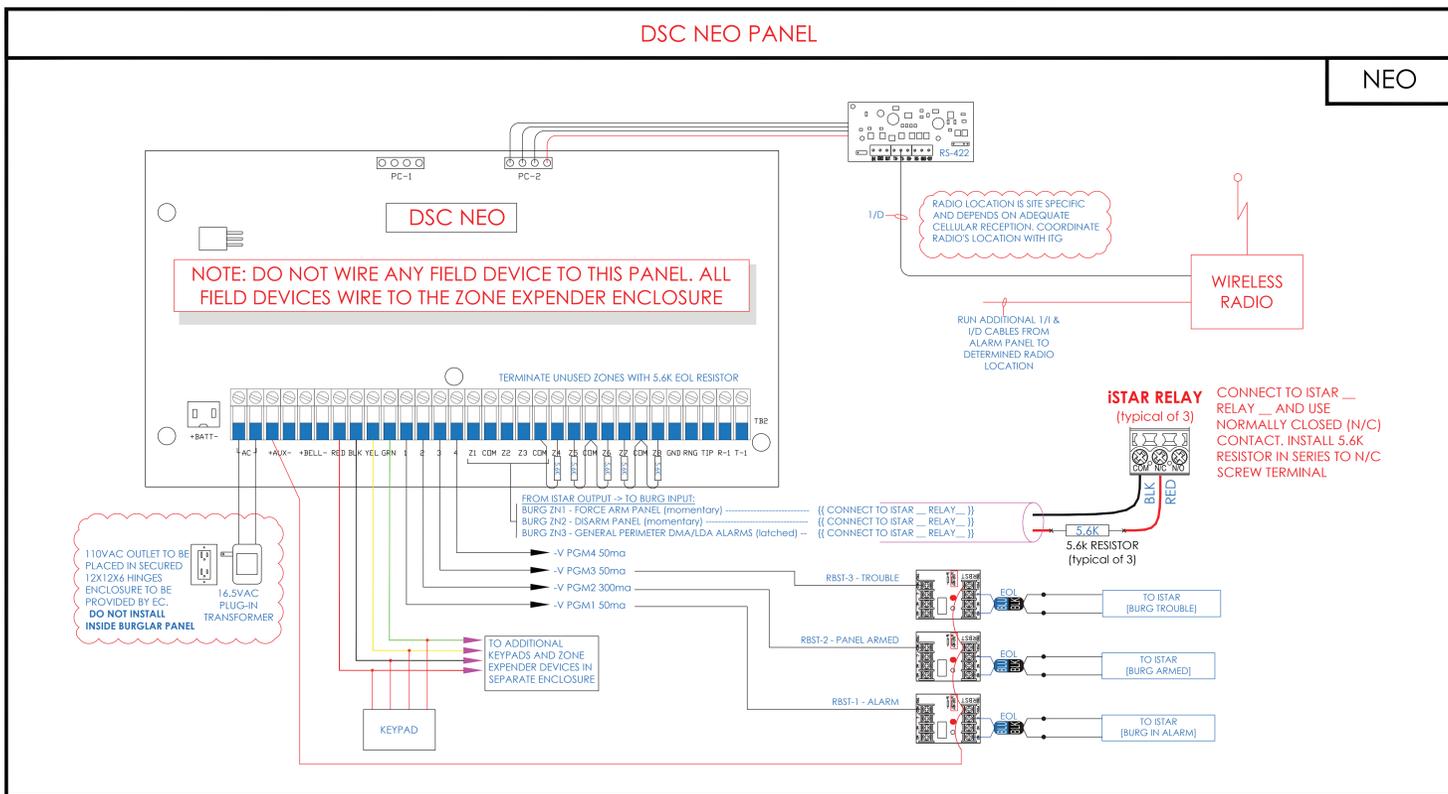


This CAD set and all inventors, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

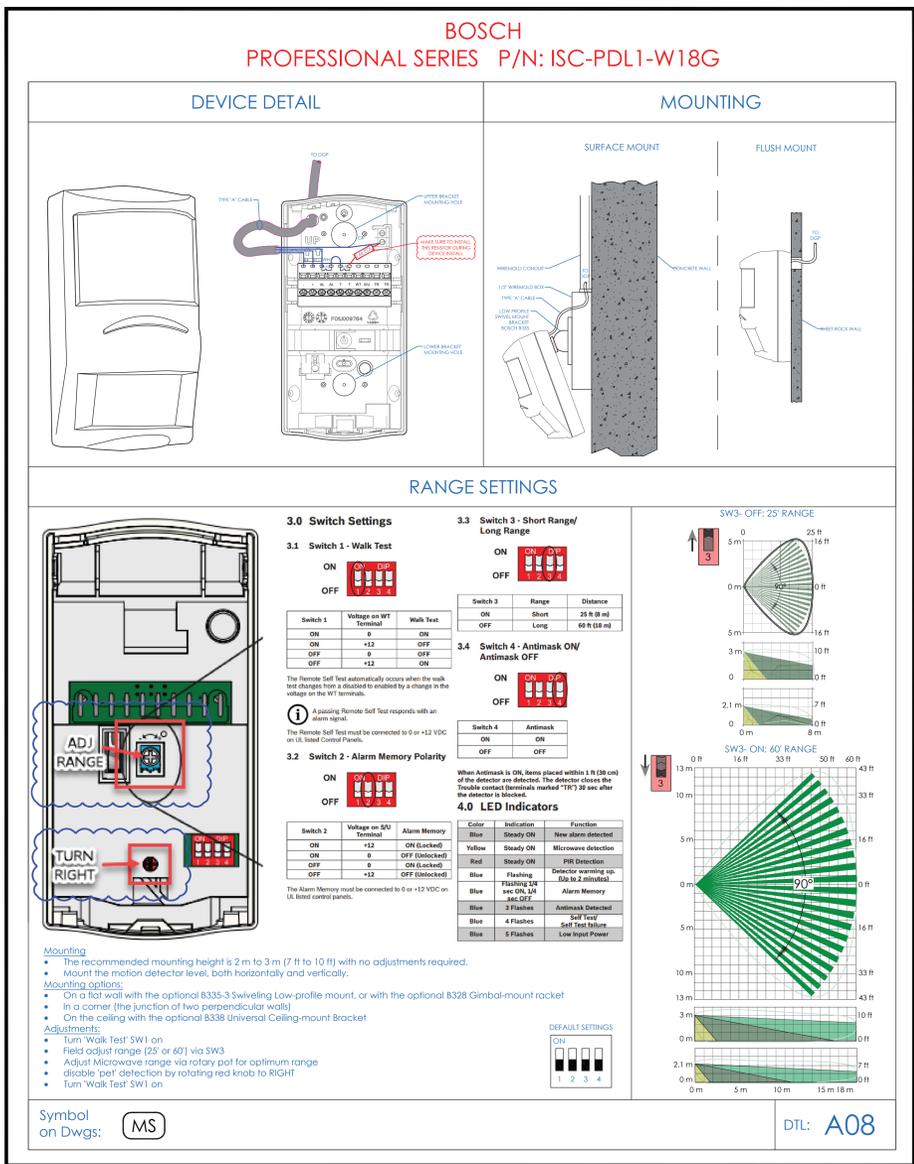
PROJECT:
RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

TITLE:
**SECURITY EQUIPMENT DETAIL 3
ILDA DEVICE TYPICALS**

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	11/27/2019
XXXXXX	SCALE:	N.T.S.
S.A. NO:	DRAWING NO:	
XXXXXX	SE-705	



- NOTES:**
1. DEVICE PLACEMENT, RIGOR DEPICTION, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE DRAWING SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF FIRE SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT 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 RISE AND NOTE ON THE AS BUILT.
 7. CONTRACTOR TO PRODUCE AND DELIVER A ROUND AS BUILT SET IN BOTH PDF AND HARD COPY (12.5X17) AND A CD WITH PDF FORMATS.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.



BURGLAR ALARM ZONE DETAIL

(TO BE FILLED BY INSTALLING CONTRACTOR)

BA-Z

SEE ZONE TERMINATION ENCLOSURE (BA-X) THIS PAGE

BURGLAR ALARM TERMINATION MATRIX				
PANEL	PORT	ZONE	DEVICE TAG	LOCATION
PANEL	1	1		Force-Arm panel. Momentary contact from iStar
	2	2		Disarm panel. Momentary contact from iStar
	3	3		ILDA Door Alarm - Dry Contact from iStar
	4			
	5			
	6			
	7			
ZE #1	RLY 1			Burg "ALARM" notification to iStar
	RLY 2			"ARMED" Status to iStar (to Shut off lights)
	RLY 3			Burg "TROUBLE" notification to iStar
	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
ZE #2	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
	Z1	17	1-09-02-17	CORRIDOR
	Z2	18	1-10-02-18	CORRIDOR
	Z3	19	1-11-02-19	CORRIDOR
ZE #3	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
	Z1	25	2-17-03-25	CORRIDOR
	Z2	26	2-18-03-26	OFFICE COAT ROOM
ZE #4	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

ISSUED FOR:

DATE	COMMENTS
11/02/2018	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



This CAD set and all inventors, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced or distributed without ITG's written consent and permission.

RIVERSIDE HIGH SCHOOL
565 WARBURTON AVE
YONKERS, NY 10701

SECURITY EQUIPMENT DETAIL 4
BURGLAR DEVICE TYPICALS

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.	DRAWING NO.	
XXXXXX	SE-705A	

TYCO - ILLUSTRATE FLEX 4K MINI DOME

8MP MINI DOME p/n: IFS08D2ICWTT (INDOOR) & IFS08D2OCWTT (OUTDOOR)

DEVICE DETAIL & WIRING

TYPE "T" CABLE
TO IDF PATCH PANEL

1-568B WIRING
1- WHI/GRG
2- GRN
3- WHI/GRN
4- BLU
5- WHI/BLU
6- GRN
7- WHI/BRN
8- BRN

NOTE: RJ-45 PLUG CLIP IS POINTED AWAY

RJ45 JACK ON CAMERA BODY
RJ45 CONNECTOR
NETWORK CABLE PROVIDED BY OTHERS

TERMINAL BLOCK ON CAMERA HOUSING HEATER
TYPE "T" CABLE

SPECIFICATIONS

	Indoor	Outdoor
Operational Video Compression	H.264 / H.265 / IntelliZip / MJPEG	
Max Frame Rate (ONVIF Compliant)	8MP @ 15 fps	
Analog Video Output Resolution	Profile 5	
Resolution	3840x2160 (4K) 16:9 3264x1840 16:9 2592x1544 4:3 2688x1520 16:9 2048x1536 (2XGA) 4:3 1920x1080 (1080p) 16:9	1280x960 (SXGA-) 4:3 1280x720 (720p) 16:9 800x600 (VGA) 4:3 640x480 (40VGA) 4:3 640x360 (pHD) 16:9
Imager	1/2.5"	
Day/Night	True D/N with ICR	
TrickleStar	Yes	
IR Distance	N/A	
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	0.03 Lux	
Color	0.0033 Lux	
Field of View (H/V)	Wide Angle	
Telephoto	104°/56° 42°/24°	
Lens Type	Motorized Varifocal and Focus, P-Iris control, IR corrective	
Focal length	3.4-9mm	
Aperture	F1.5(W)-F2.9(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	IEEE 802.3, 10/100Base-T Ethernet, Female RJ45, Auto-Negotiation	
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, RTSP, TLS, Unicast, Multicast, NTP, ICMP, IGMP, SMTP, WS-Security, IEEE 802.1x, PEAP, EAP-TLS, EAPoL, SSH, HTTPS, SOAP, WSAddressing, CIFS, S/NMP, 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	Micro SD & SDXC slot up to 128GB; Class 10 or higher; Card not included	
Card Support	Micro SD & SDXC slot up to 128GB; Class 10 or higher; Card not included	
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)	2.14lbs (0.97kg)
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 Extended Temperature: 140°F (60°C) for 5 hours a day with IR illuminators OFF	
Vandal Resistant	IK10	
Environmental Rating	IP66/IP67	
Regulatory	FCC Part 15 Class A; EN55032 Class A; AS/NZS CISPR 32 Class A; ICES-003/NMB-003 Class A	
Emissions	EN55024, EN50130-4	
Immunity	EN60950-1; UL60950-1; CAN/CSA-C22.2 No. 60950-1	
Safety	RoHS/WEEE	
Environment	RoHS/WEEE	

CEILING MOUNTING DETAIL

SPEED LINK CABLE HANGING SYSTEM
SEE DETAIL C-02 FOR DETAILS

AMERICAN DYNAMICS MINI-DOME RECESSED MOUNT
IFDRCMNT

NOTE: EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

OUTDOOR WALL SURFACE MOUNT DETAIL

CEILING SLAB

EXTERIOR WALL

CONDUIT ENTRY FROM REAR, SIDES OR BOTTOM ONLY

WALL MOUNT BRACKET P/N-ADCI6WALLWK

TYPE "T" CABLE TO IDF

3/4" CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR

NOTE: EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

INDOOR (ONLY) WALL MOUNTING DETAIL

FLUSH MOUNT

SURFACE MOUNT

TYPE "T" CABLE TO IDF

3/4" CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR

J-BOX10H PROVIDED BY ELECTRICAL CONTRACTOR

S/R WALL

NOTE: EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

OUTDOOR WALL MOUNT DETAIL

CEILING SLAB

EXTERIOR WALL

TYPE "T" CABLE TO IDF

3/4" CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR

J-BOX PROVIDED BY ELECTRICAL CONTRACTOR

WALL MOUNT BRACKET P/N-ADCI6WALLWK

RUN CCTV CABLES THROUGH ARM & ATTACH WALL MOUNT ARM TO WALL WITH INCLUDED HARDWARE

NOTE: EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

Symbol on Dwgs:

DTL: C01

- 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 DRAWING SET AND SPECIFICATIONS. VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CITY USE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE 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" ROUND-AS-BUILT SET IN BOTH "D" SET HARD COPY "D" SET AND A CD WITH ".PDF" FORMAT.
 7. CONTRACTOR TO PRODUCE AND DELIVER A ROUND-AS-BUILT SET IN BOTH "D" SET HARD COPY "D" SET AND A CD WITH ".PDF" FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. IT'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

nVent CADDY

SPEED LINK SLK WITH ANGLE BRACKET

EXISTING HARD DECK

FIX TO DECK WITH FASTENERS APPROPRIATE TO SITE CONDITIONS

4" SQ. BACKBOX W/ SINGLE GANGE COVER, PUNCHED W/ CONNECTORS FOR VIDEO & POWER CABLES

3/4" CONDUIT

3/4" METALLIC FLEXIBLE CONDUIT (LENGTH SHALL NOT EXCEED 48")

PULL WIRE UP TO REDUCE SLACK

SLK LOCKING DEVICE
SLK1SL1AB - 3"
SLK1SL2AB - 4"
SLK1SL3AB - 9"
SLK1SL5AB - 16"
(see below)

THREAD THROUGH BOTH HOLES!

AMERICAN DYNAMICS MINI-DOME RECESSED MOUNT
IFDRCMNT

EXISTING ACOUSTIC CEILING PANEL

AMERICAN DYNAMICS ILLUSTRATE INDOOR MINI-DOME

CEILING VANITY PLATE
p/n: IFDRCMNT w/ SPRING CLIP FASTENERS - INSTALL PER MANUFACTURERS SPEC.

CUT HOLE IN EXISTING ACOUSTIC CEILING PANEL AS PER CAMERA MANUFACTURERS SPECIFIED DIAMETER - SEE MANUAL.

TYPICAL HANGING SCENARIO

PRE-ASSEMBLED ANGLE BRACKET END FITTING

LENGTH WILL VARY

SLK LOCKING DEVICE WIRE ROPE (LENGTH AS PER PART #)

Part Number	Wire Rope Length	A	Hole Size HS	Height H	Width W	Thickness T	Angle a	Static Load F	Certifications
SLK1SL1AB	3.7	0.891"	0.281"	2.15"	0.75"	0.5"	90° Max	44 lb	cULus
SLK1SL2AB	6.6	0.891"	0.281"	2.15"	0.75"	0.5"	90° Max	44 lb	cULus

DTL: C02

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
	1/15/2020	REVISED-ISSUED FOR BID

ITG

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

This CAD set and all inventors, ideas, designs, details and methods shown here are the property of ITG Larson, Inc and may not be used, altered, reproduced, or distributed without ITG's written consent and permission.

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

SECURITY EQUIPMENT DETAIL 5
CCTV TYPICALS

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE	DATE
XXXXXX	NO SCALE	11/27/2019
S.A. NO:	DRAWING NO:	
XXXXXX	SE-706	