

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

ISTAR-OVERALL SCHEMATIC SECURITY
DEVICE & POWER CONNECTION
ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ MOTION REX
ULTRA SE TYPICAL WIRING DIAGRAM FOR 16 CR DOORS W/ BUILT-IN REX
SECURITY EQUIPMENT DETAIL 1- (DOOR TYPICALS)
SECURITY EQUIPMENT DETAIL 1A- (DOOR TYPICALS)
SECURITY EQUIPMENT DETAIL 2- (ACCESS DEVICE TYPICALS)
SECURITY EQUIPMENT DETAIL 3- (ILDA DEVICE TYPICALS)
SECURITY EQUIPMENT DETAIL 4- (BURG DEVICE TYPICALS)
SECURITY EQUIPMENT DETAIL 5- (CCTV TYPICALS)

GENERAL NOTES

- GENERAL NOTES SHALL APPLY TO ALL DRAWINGS.
- WORK TO COMPLY WITH ALL APPLICABLE LOCAL CODES, REGULATORY AGENCIES, INCLUDING BUT NOT LIMITED TO, IBC, OSHA, ETC.
- 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.
- FIRE STOPPING OF ALL PENETRATIONS SHALL BE PROVIDED BY THE INSTALLING SECURITY CONTRACTOR AS REQUIRED BY CODE.
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE, AND FINAL SYSTEM CONDUIT AND CONDUCTOR LAYOUTS SHALL BE PROVIDED IN ACCORDANCE WITH THE MANUFACTURERS APPROVED EQUIPMENT, CONDUIT, AND WIRING SHOP DRAWINGS, AND FIELD CONDITIONS.
- THE INSTALLING CONTRACTOR MUST COORDINATE WITH THE DEVICE INSTALLATION DETAILS, AND ENSURE THAT DEVICE BACKBOXES 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.
- 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.
- THE INSTALLING CONTRACTOR SHALL PROVIDE ALL 120/200VAC 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.
- THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL INTERCONNECTING CONDUITS AND RACEWAYS INSIDE THE SECURITY EQUIPMENT AND TERMINATE ALL WIRES AS SHOWN IN THE DRAWING SET.
- THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL CABLE PASS-THROUGH HOLES IN MILLWORK UNLESS OTHERWISE NOTED.
- THE INSTALLING CONTRACTOR SHALL PROVIDE AND INSTALL ALL COVERHEAD 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.
- THE INSTALLING CONTRACTOR TO PROVIDE GROUNDING OF ALL ELECTRONICS EQUIPMENT ON THE 12 WOOD BACKBOARD, USE GROUNDING BAR, OR COORDINATE WITH GENERAL CONTRACTOR FOR NEAREST GROUNDING LOCATION.
- 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.
- 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.
- 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 PRO STOPPED.
- 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.
- 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 READY ALL RELATED PUNCH LIST ITEMS FOR FINAL COMMISSIONING.
- THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDY OF ANY CABLE &/OR EQUIPMENT INSTALLATION PROBLEMS AND ALL RELATED PUNCH LIST ITEMS.
- CLIENTS FIRE ALARM CONTRACTOR SHALL PROVIDE A SET OF NORMALLY CLOSED (N/C) CONTACTS TO RELEASE ON GENERAL ALARM.
- THE INSTALLING CONTRACTOR IS RESPONSIBLE FOR PROVIDING BACK & 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.
- ALL WIRES TO BE MACHINE LABELED VIA SELF LAMINATING LSL-77 TAGS, PROVIDE FOR OWNER'S REP REVIEW PRIOR TO USE.
- SECURITY SCREWS TO BE USED AS NEEDED AND EXPECTED TO MAINTAIN SYSTEMS INTEGRITY.

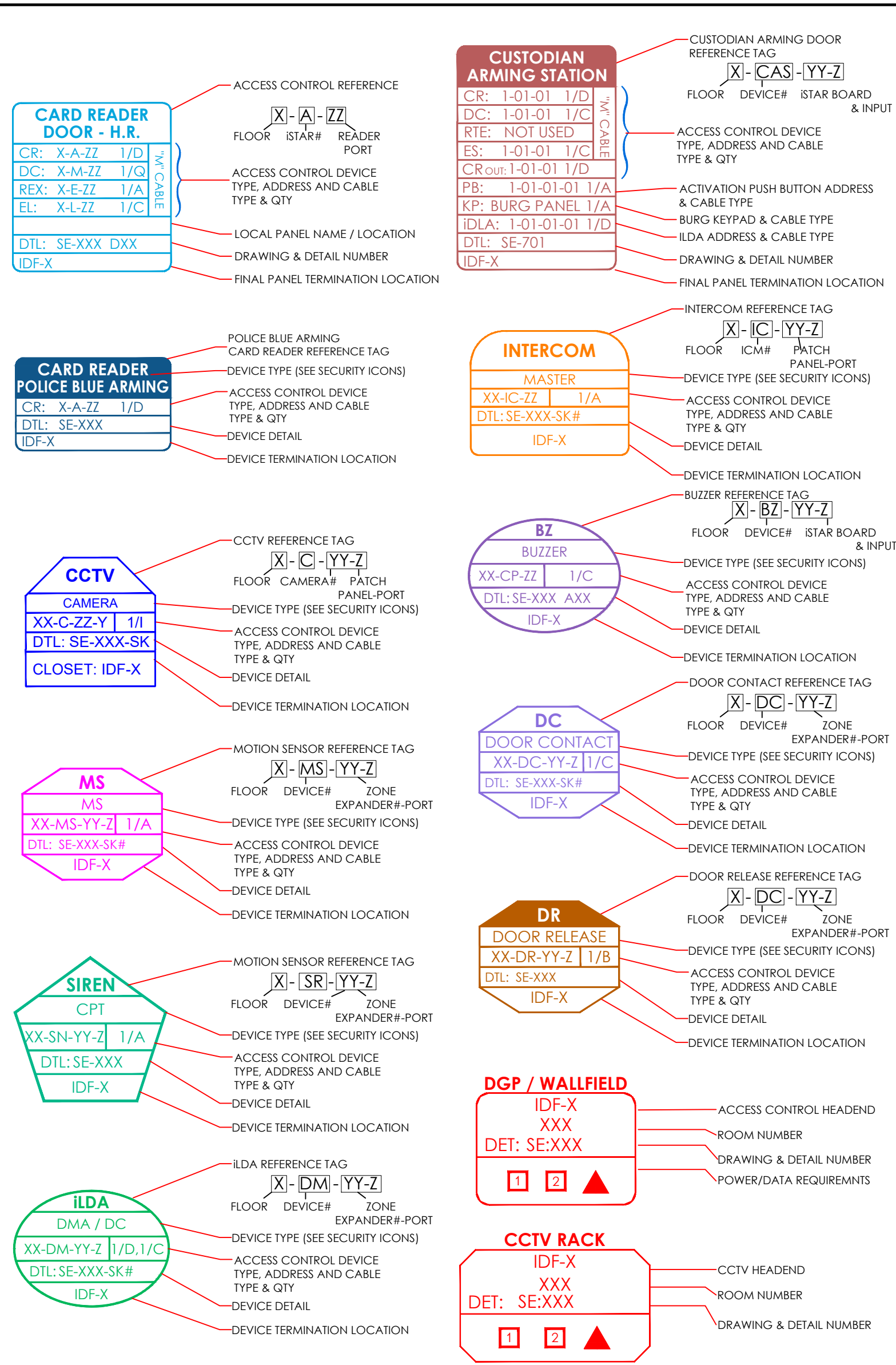
POWER REQUIREMENTS

- 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" APART WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.
- 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" APART WITH WIRE ENDS TERMINATED AND INSULATED WITH WIRE NUTS.

SECURITY DEVICES LEGEND

	CARD READER	LR = LONG RANGE EL = ELEVATOR S = SURFACE	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
	ELECTRIFIED DOOR OPERATOR (PBO)		
	OVERHEAD DOOR CONTACT	DPDT = DOUBLE POLE DOUBLE THROW	
	ELECTRIC MORTISE LOCK	REX = REQUEST TO EXIT BUILT IN	
	ELECTROMAGNETIC LOCK		
	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		

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 DEVICES FOR DEVICES	PLC COMMUNICATION	.480 IN
C	REMEE	TYPE C	18 AWG / 2 COND PLENUM PINK CABLE	PTZ POWER	.152 IN
D	REMEE	TYPE D	20 AWG / 2 COND OVERALL SHIELD PLENUM PINK CABLE	CARD READER, COMMUNICATION	.207 IN
E	CORNING	129A62.5	4 STRAND 62.5UM RISER FIBER - MULTIMODE	NETWORK BACKBONE	
F	REMEE	TYPE F	1059U 20AWG PLENUM PINK CABLE	ANALOG CCTV CAMERA, ANALOG MONITOR	.214 IN
H	TBD	TBD	14 AWG / 4 COND 18IN STRAIGHT QUICK PULL CABLE COLOR: BLUE, RED, BROWN, YELLOW, PINK, WHITE	DEFIBRATION LOCK POWER/STATUS	
I	REMEE	TYPE I	20 AWG / 4 PAIR CAT5E - UNSHIELDED PLENUM	P 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 (E) - TYPE E 20AWG / 2 COND - DOOR CONTACT	ACCESS CONTROL DOOR	.400 IN
P	HITACHI	SP-2631	20AWG / 25 PAIR CAT5E PLENUM	PLC COMMUNICATION	.454 IN
Z	WEST PENN WIRE	AGC3186	18 AWG / 4 COND OVERALL SHIELDED, PVC	PEDESTAL CARD READER	.323 IN
X	WEST PENN WIRE	AGC357	22 AWG / 2 PAIR, 1 PAIR SHIELDED, 1 PAIR UNSHIELDED, PVC	PEDESTAL INTERCOM	.255 IN

- 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 COTY BOX.
 - CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF RISE SECURITY MANAGER.
 - PRIOR TO PULLING CAT-4 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 - ALL CAT-4 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.
 - CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH: PDF FORMAT.
 - CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, ITS'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
8/28/2019	ISSUED FOR BID
10/6/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID



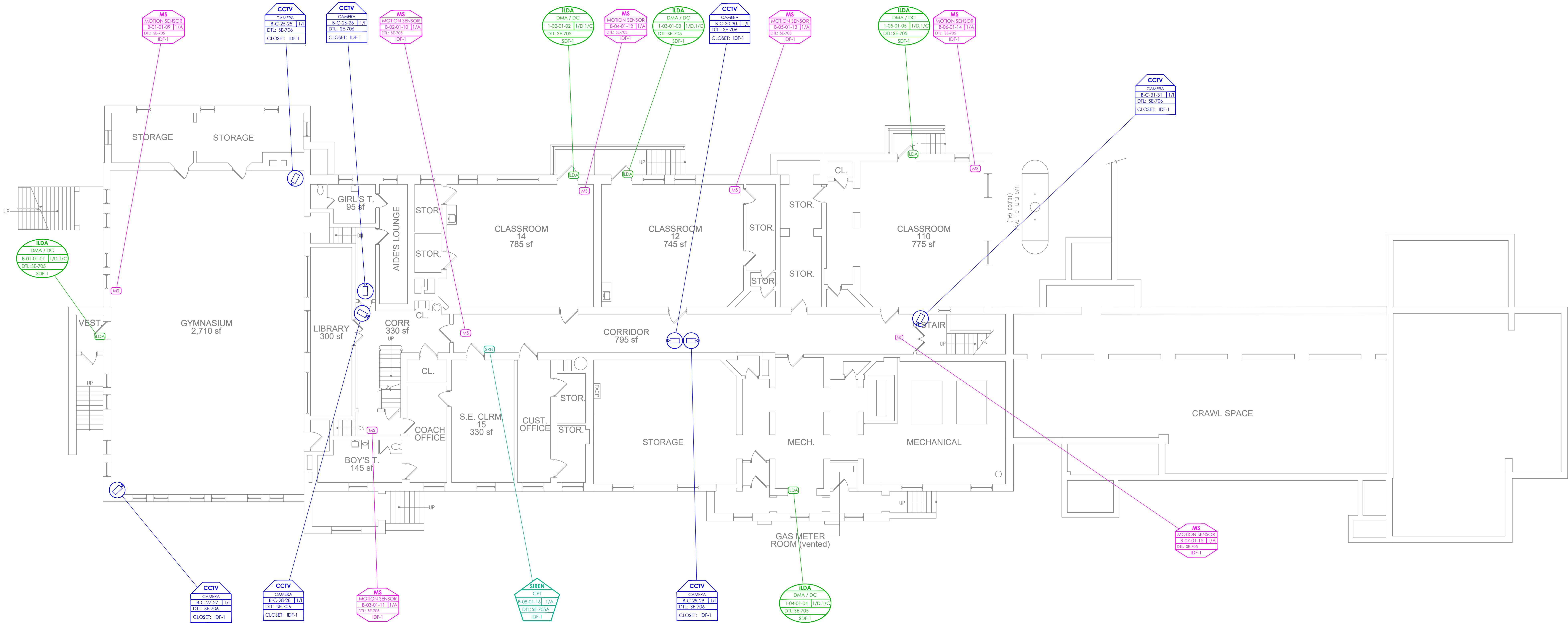
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PROJECT:
Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

FILE:

COVER SHEET /
LEGEND & INDEX

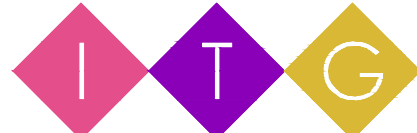
I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE: 11/27/2019	
XXXXXX	SCALE: NTS	
FILE NO:	DRAWING NO:	
XXXXXX	SE-000	



- 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 CITY/BOE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF RISE 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" SET HARD COPY (PDF) AND A CD WITH "PDF" FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITG'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

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1/15/2020	REVISED-ISSUED FOR BID



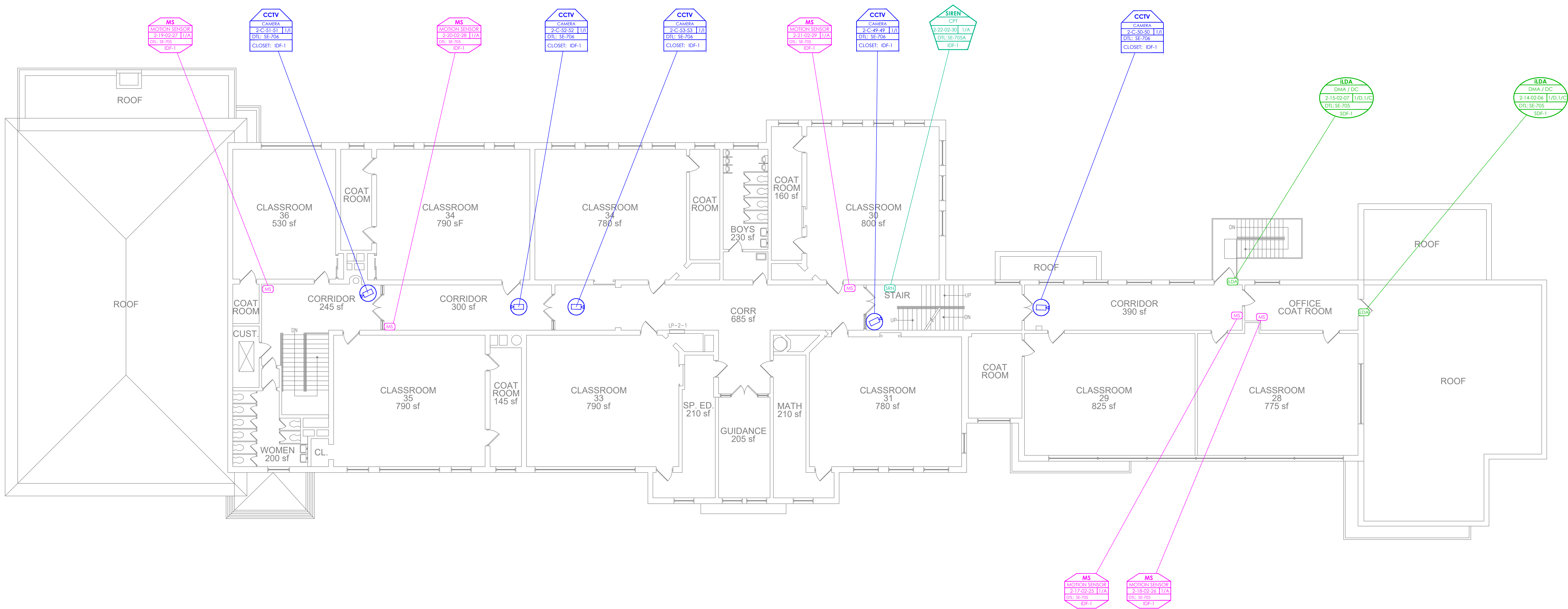
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PROJECT:
Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

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:	
XXXXXX	SE-100	



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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 CITY/STATE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF RISE SECURITY MANAGER.
 4. PRIOR TO PULLING CATA WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300 WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CATA 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 "1" SIZE HARD COPY (2 SETS) AND A CD WITH "PDF" FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, ITS ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

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

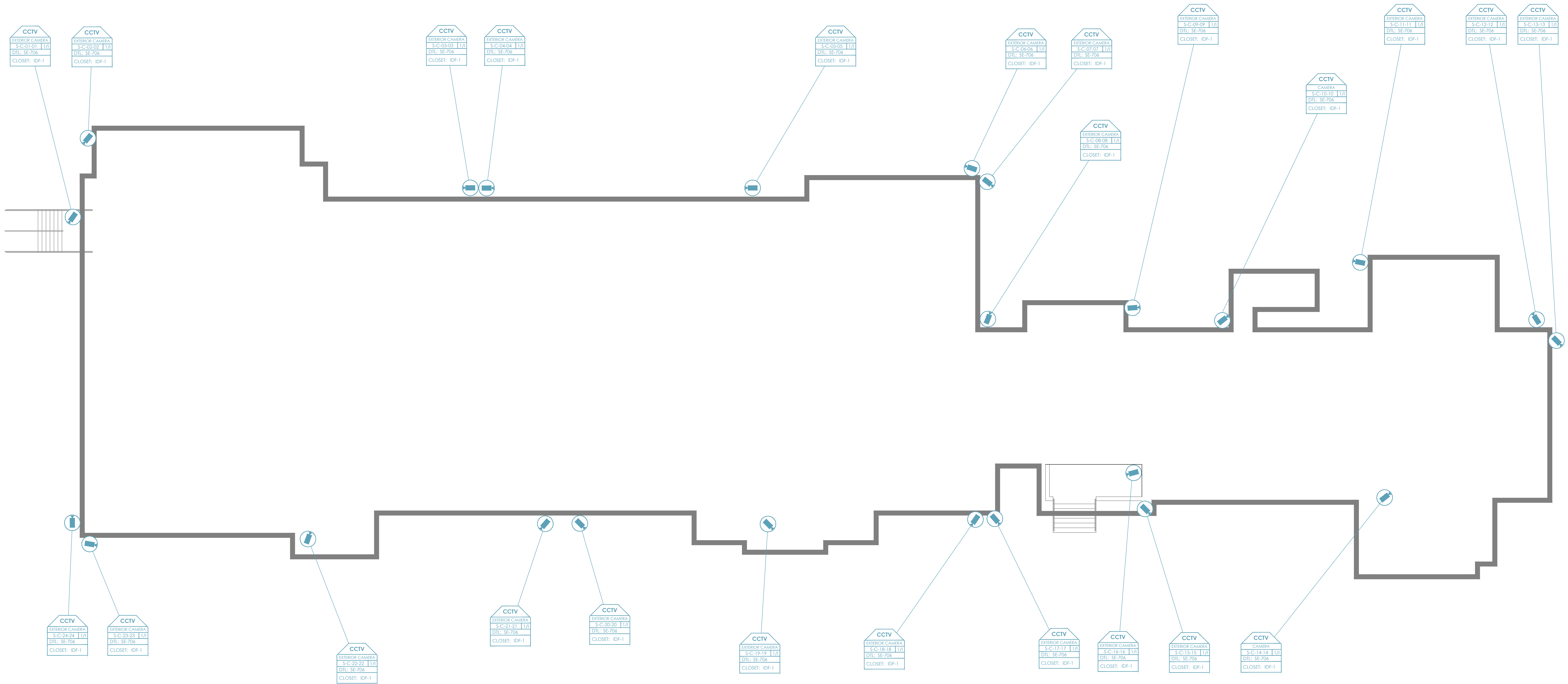


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PROJECT:
Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

TITLE:
SECURITY UPDATE PROJECT
SECOND FLOOR

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO.	DATE	11/27/2019
XXXXXX	SCALE	
S.A. NO.	DRAWING NO.	SE-102
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 DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CUY RISE.
 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF RISE SECURITY MANAGER.
 4. PRIOR TO PULLING CAT-4 WIRES CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300 WHEN BROUGHT TO CLOSET 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 BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (1 SET) AND A CD WITH ".PDF" FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, ITC'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

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10/6/2019	REVISED-ISSUED FOR BID
1/15/2020	REVISED-ISSUED FOR BID

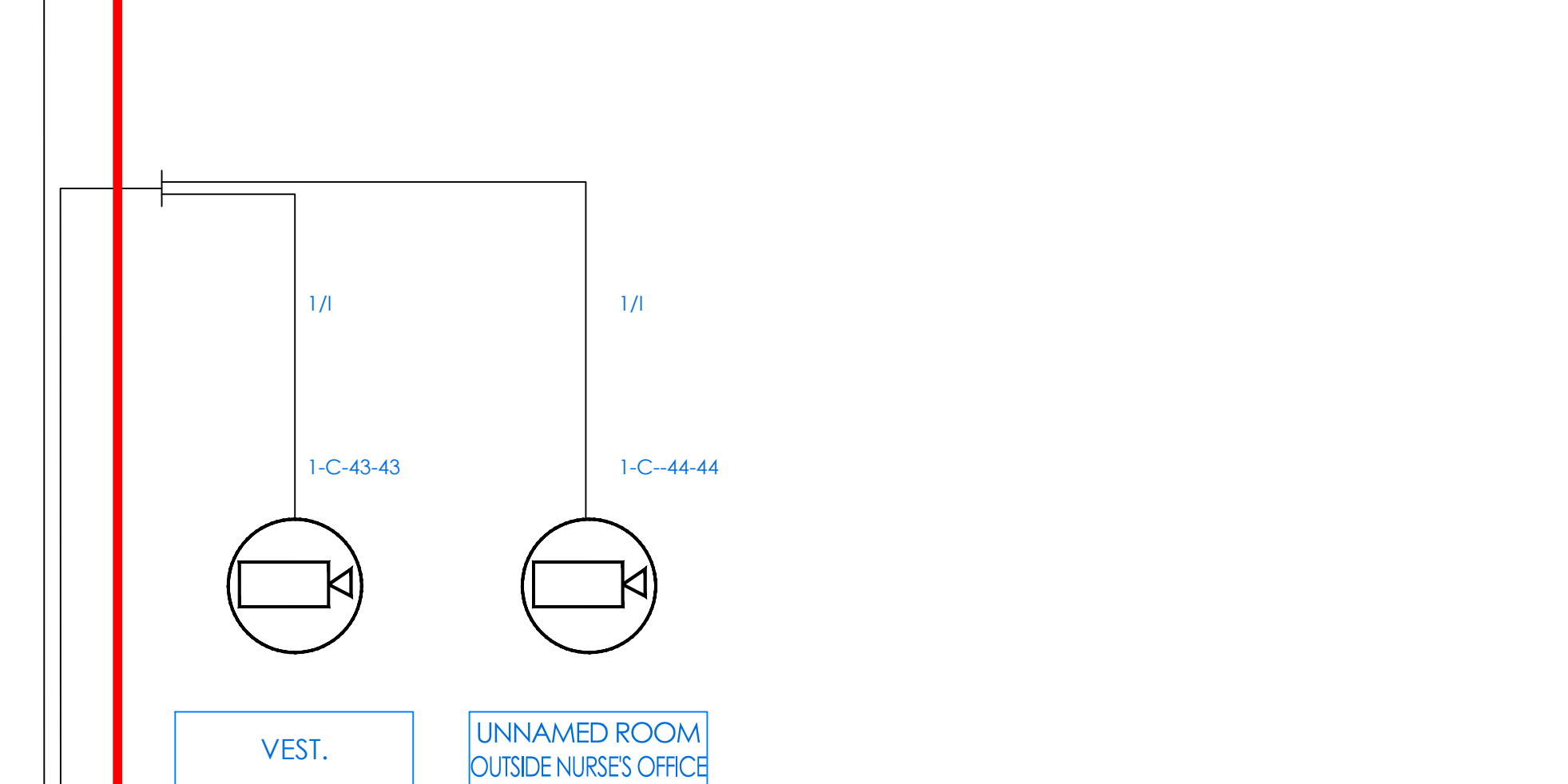


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PROJECT:
Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

TITLE:
SECURITY UPDATE PROJECT
SITE PLAN

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE:	1/27/2019
XXXXXX	SCALE:	
S.A. NO:	DRAWING NO:	
XXXXXX	SE-103	



- NOTES:
1. DEVICE PLACEMENT, REEF DEPLETION, CABLE PLACEMENT, DEVICES, DEPLETION, PLACEMENT AND OTHERS ARE FOR REFERENCE ONLY.
 2. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE CONTENTS, NOTES AND SPECIFICATIONS, VERIFY ALL FIELD CONDITIONS AND PROVIDE A TURN KEY SOLUTION TO COT BOE.
 3. CONTRACTOR TO VERIFY CAMERAS HAVE VIEW OF WELL AND ADJUST AS NEEDED.
 4. PROVIDE TO COT BOE A VIDEO OF THE WELL AFTER THE WELL IS OPENED.
 5. PRIOR TO PULLING CABLE 4 WEEKS, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT EXCEED 300 FEET BROWN TO CLOSEST CLOSST.
 6. ALL CABLE-CABLES TO BE TESTED AND CERTIFIED AS PER BO DOCUMENT
 7. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE REEF AND NOTE ON THE "AS BUILT" DRAWING.
 8. CONTRACTOR TO PROVIDE AND DELIVER A ROUND "AS BUILT" SET IN A CD WITH "PDF HARD COPY" (2 SETS) AND A CD WITH "PDF FORMAT."
 9. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, ITCS IS NOT LIMITED TO SYSTEM PROGRAMMING ONLY.

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10/6/2019	REVISED-ISSUED FOR BID
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PROJECT:
Yonkers Public School 16
759 N. BROADWAY
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:	
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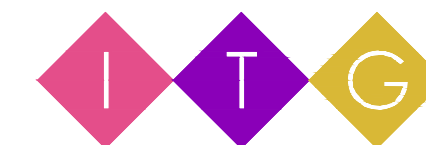


RACK - 3D VIEW

NOTES:

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3. CONTRACTOR TO VERIFY CAMERA FIELD OF VIEW AND ADJUST AS NECESSARY FOR THE SATISFACTION OF BOE SECURITY MANAGER.
4. PRIOR TO PULLING CABLE 4 WIRE, 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 ORDERED RISER AND NOTE ON THE "AS BUILT" DRAWING.
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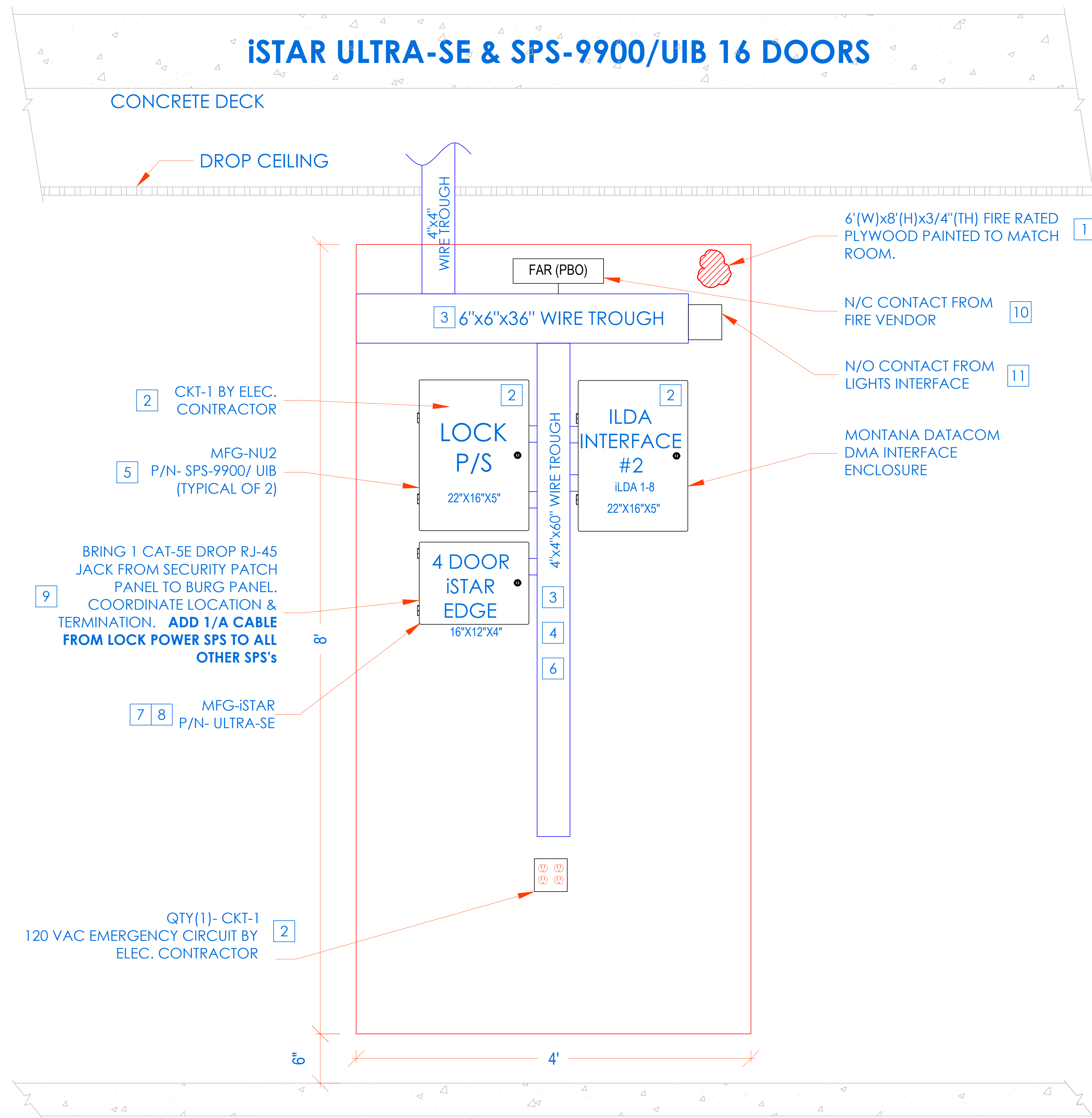
ITG Larson, Inc.
155 Lafayette Ave.
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YONKERS, NY 10701

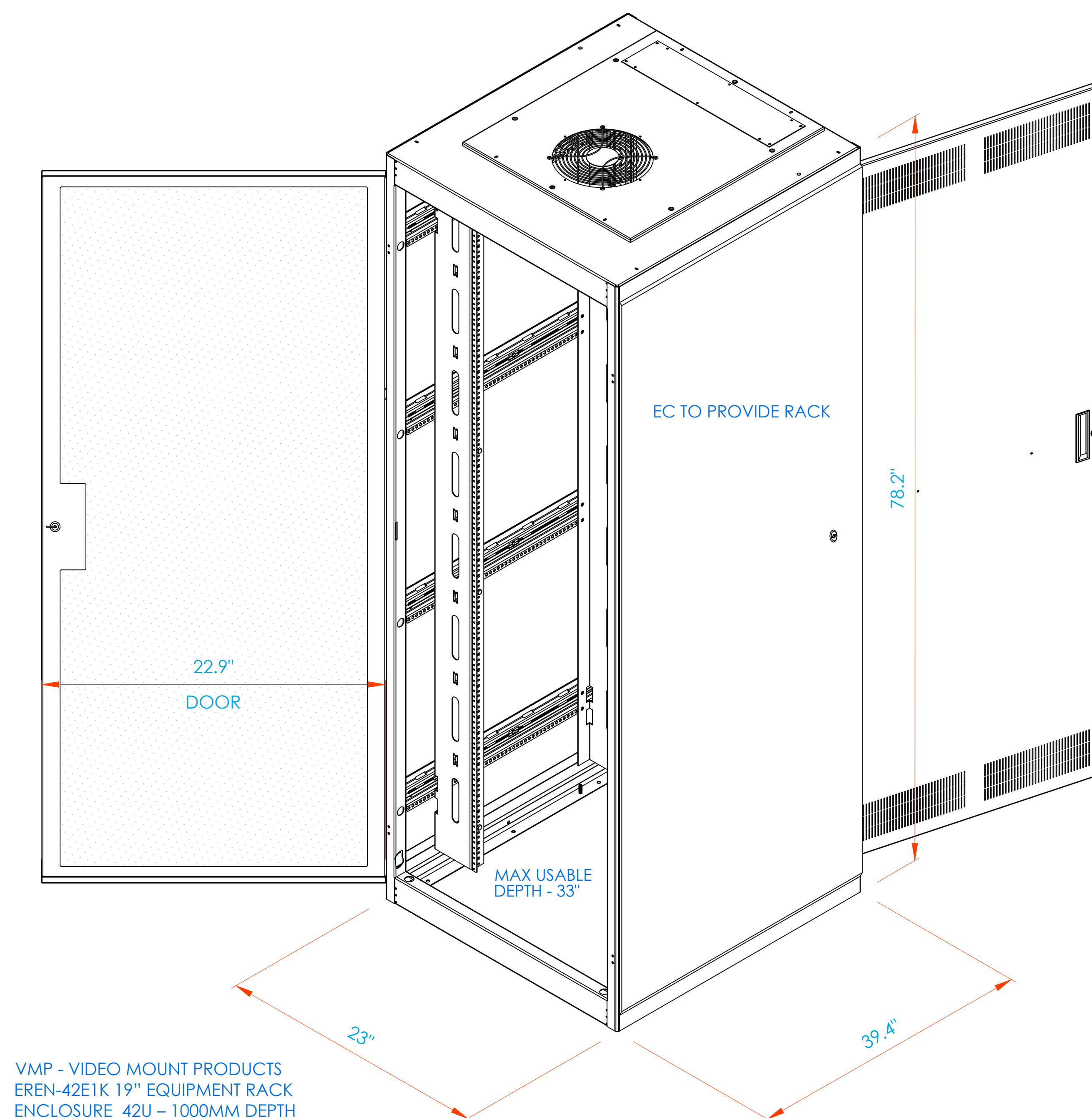
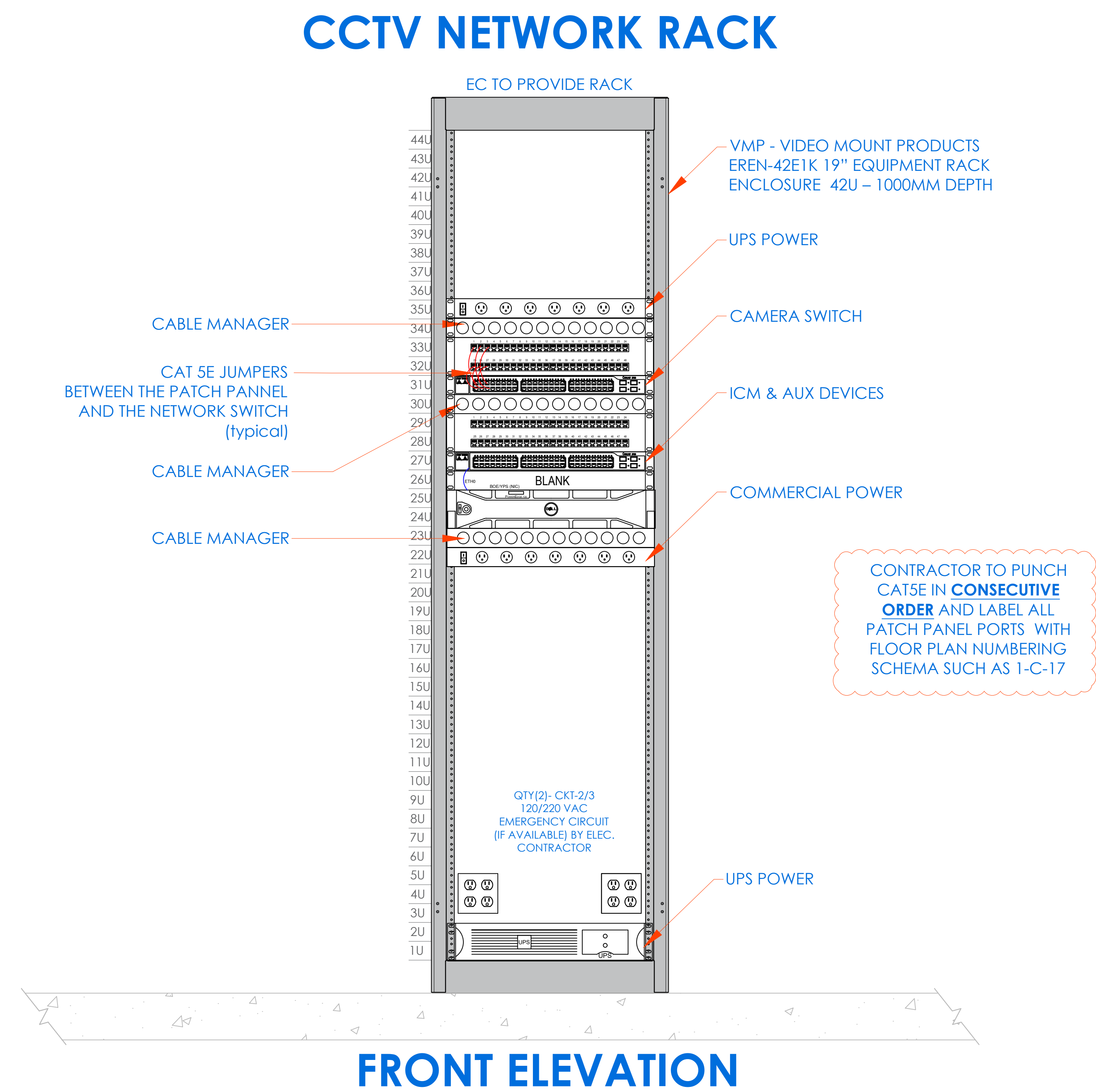
CLOSET ELEVATIONS
IDF-1

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



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

- 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.
- COMPLETE INSTALLATION OF 120VAC/20A DEDICATED CIRCUIT AS SHOWN.
- 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.
- 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.
- MOUNT THE UTILITY ENCLOSURE 4" FROM BOTTOM EDGE OF VERTICAL TROUGH.
- 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).
- FURNISH AND INSTALL 1-1/2" COUPLERS (SEE DRAWING ABOVE FOR QTY.) FROM THE ISTAR ULTRA SE TO THE CENTER TROUGH AS SHOWN.
- 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.
- 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.**
- 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
- 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
- ALL CONDUITS AND CONNECTIONS SHALL BE INSTALLED TO REQUIRED ENCLOSURES AS NEEDED PER DIAGRAM PROVIDED.
- ALL CONNECTIONS BETWEEN PANELS & TROUGHS SHOULD BE CHASE NIPPLES & RIGID COUPLINGS.
- INSTALL TAMPER SWITCHES AND WIRE PANELS IN SERIES TO DESIGNATED INPUT SHOWN ON POINT-TO-POINT CHARTS.



- 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 CLIENT.
 - 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 TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 - ALL CAT-4 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".
 - CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
 - 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
10/4/2019	REVISED-ISSUED FOR BID
1/15/2020	REVISED-ISSUED FOR BID



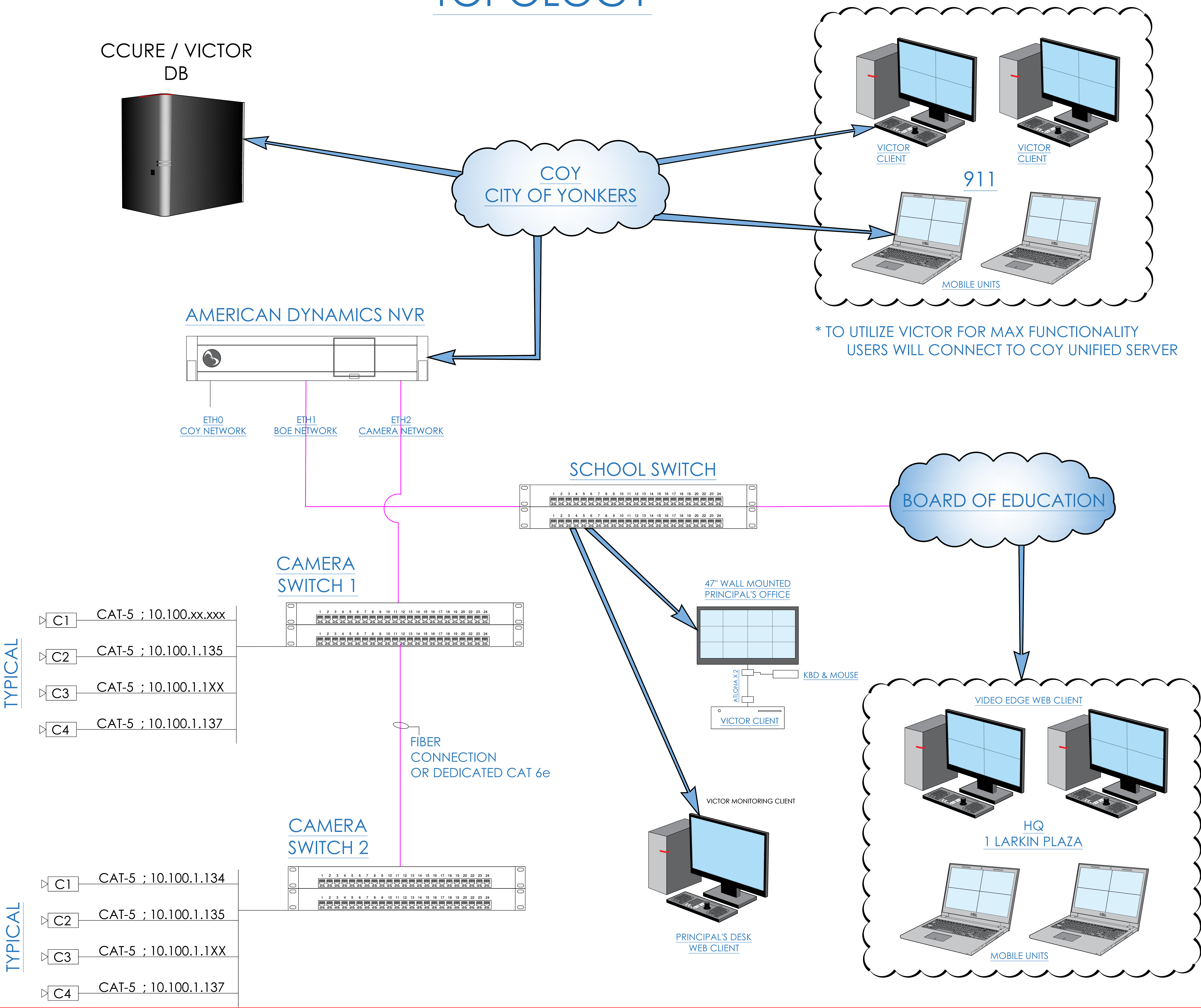
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PROJECT:
Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

TITLE:
**CLOSET ELEVATIONS
IDF-2**

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-301	

COY-BOE SECURITY DEVICE NETWORK TOPOLOGY



- NOTES:
1. DEVICE PLACEMENT, RISE 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-4 WIRES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO 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 RISE 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, ITC'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
9/26/2019	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
759 N. BROADWAY
YONKERS, NY 10701

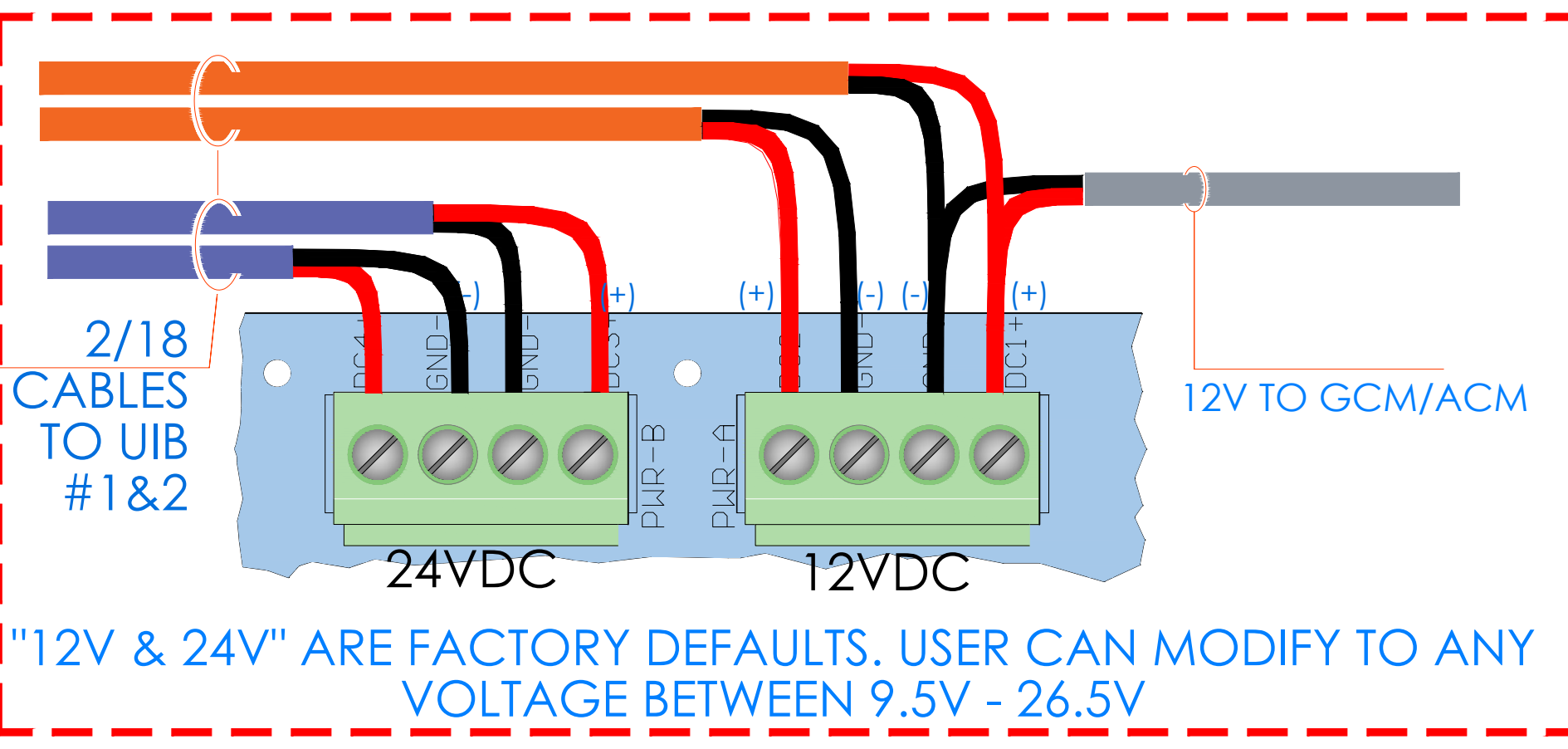
TITLE:
CCTV
ONE LINE DIAGRAM

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	

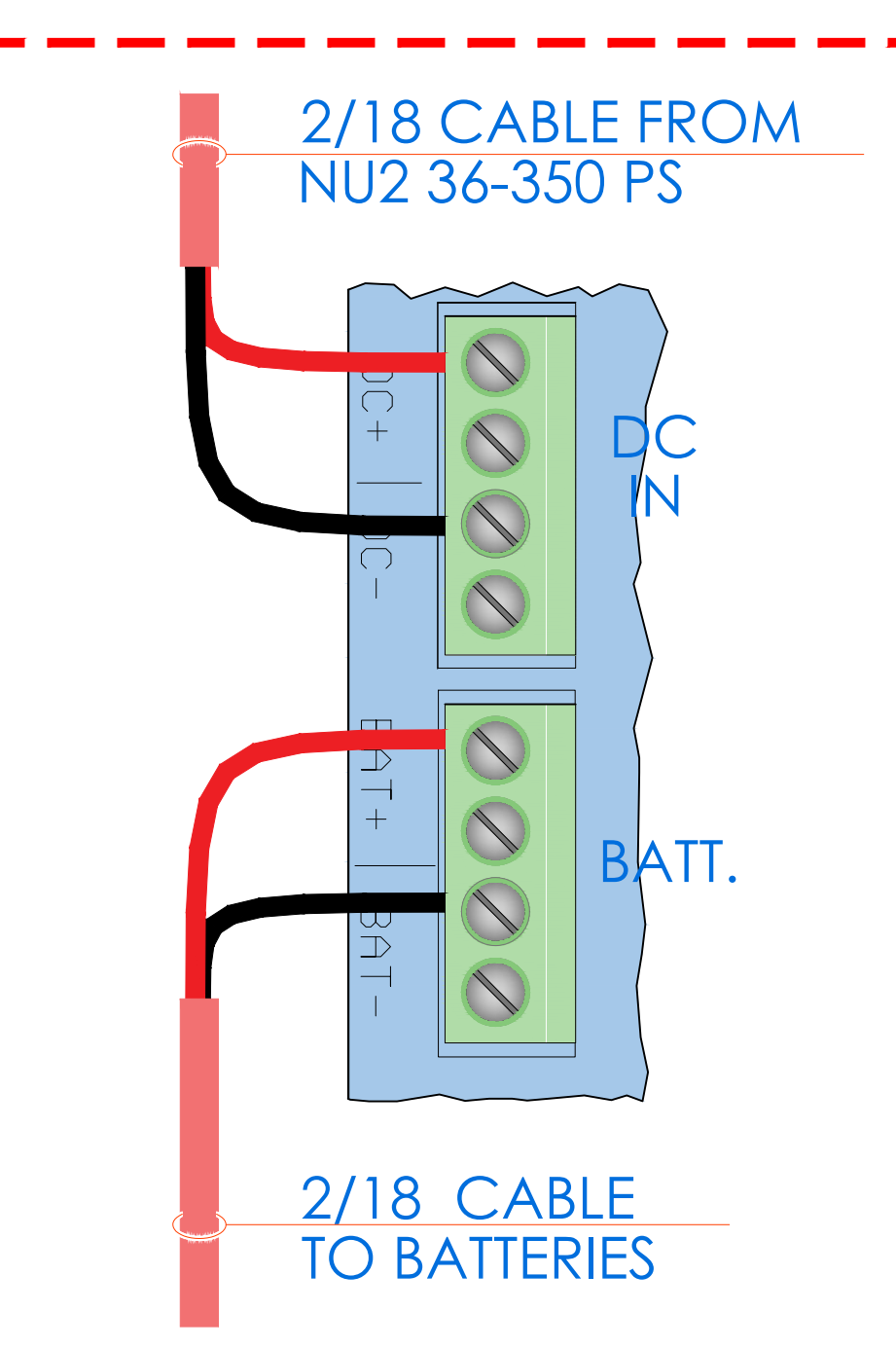
P-FORCE 1 - WIRING OF SPS/UIB

- 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 THE OWNER.
 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 MARK ANY DEVIATIONS FROM THE PROVIDED RISE AND NOTE ON THE "AS BUILT".
 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (12 SETS) AND A CD WITH .PDF FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, ITC'S ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

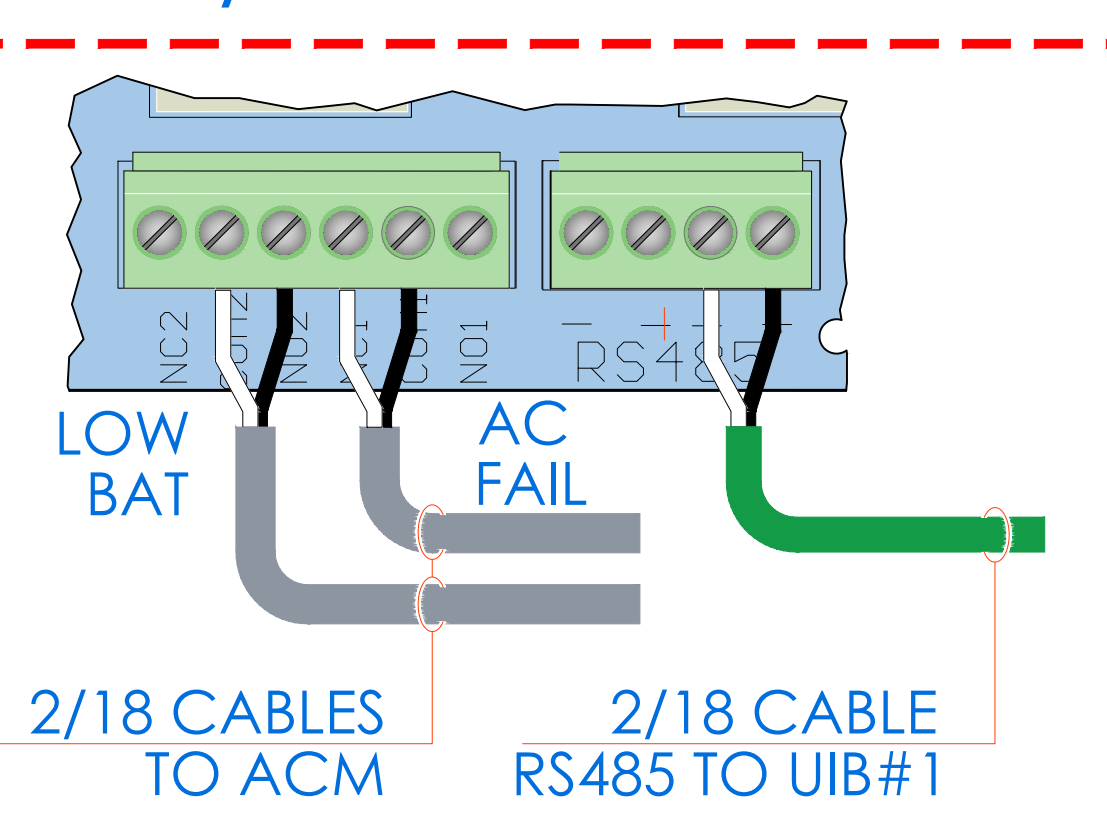
SPS OUT POWER CONNECTIONS



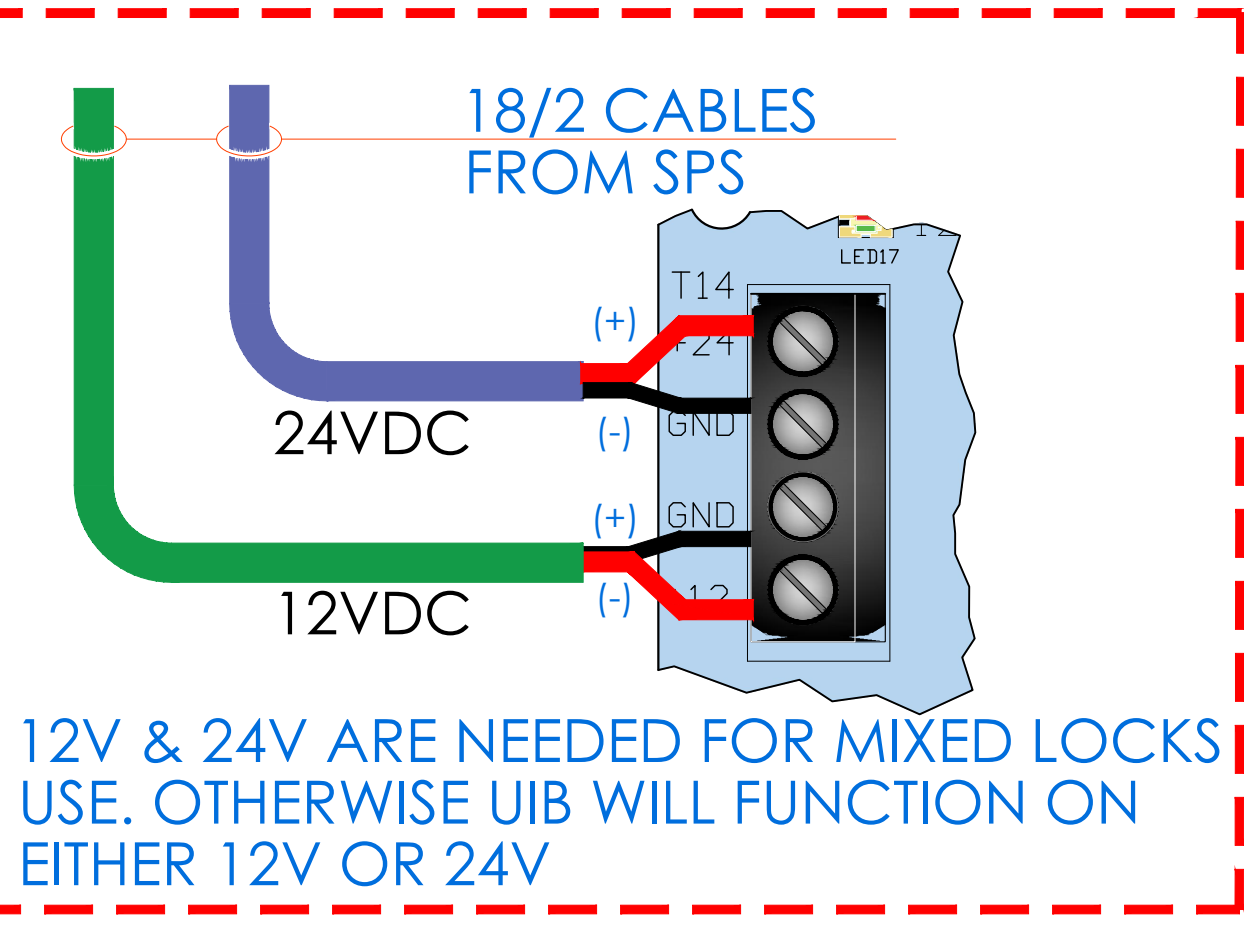
IN PWR & BAT CONNECTION



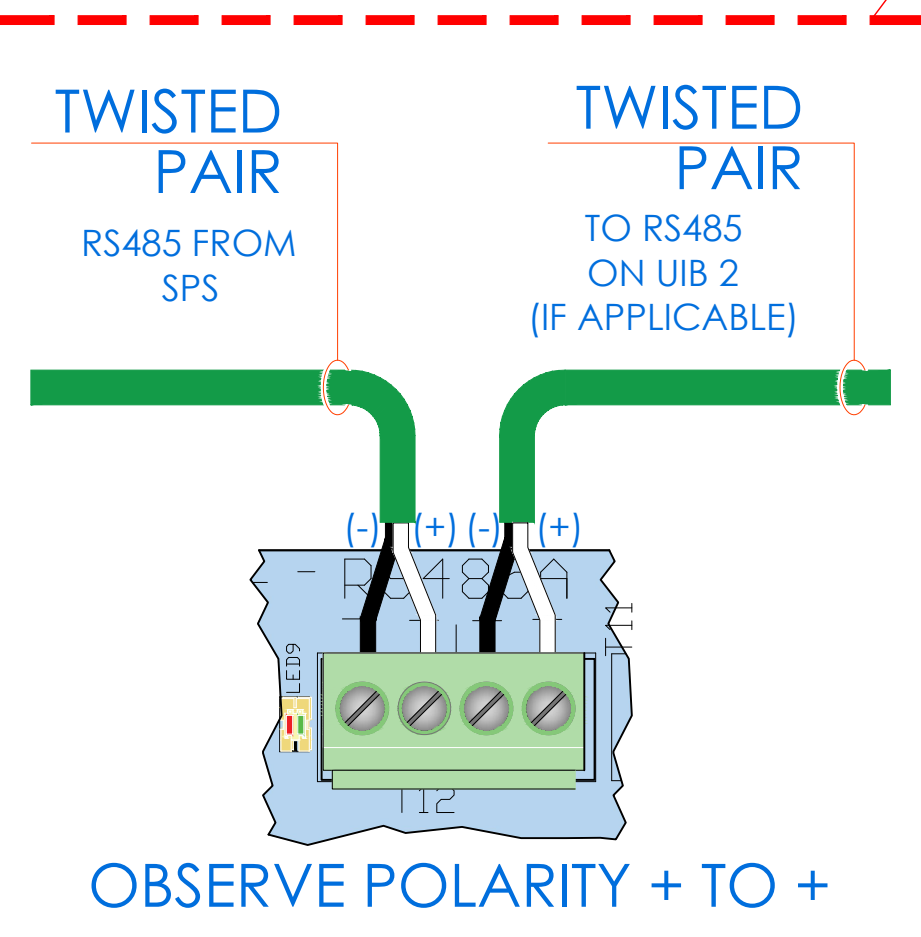
AC FAIL/LO BAT & RS485 COMM



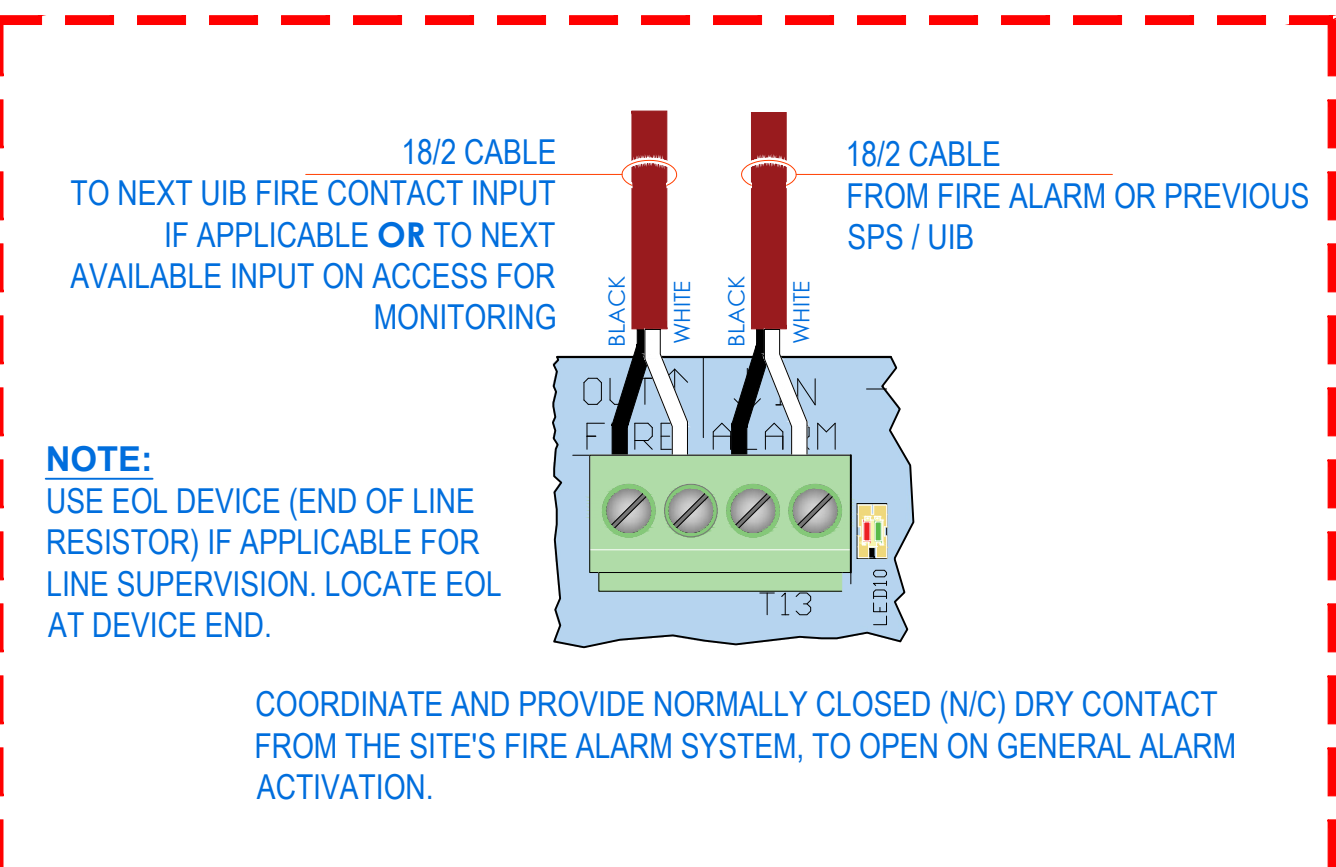
UIB INPUT 12/24V POWER FROM SPS



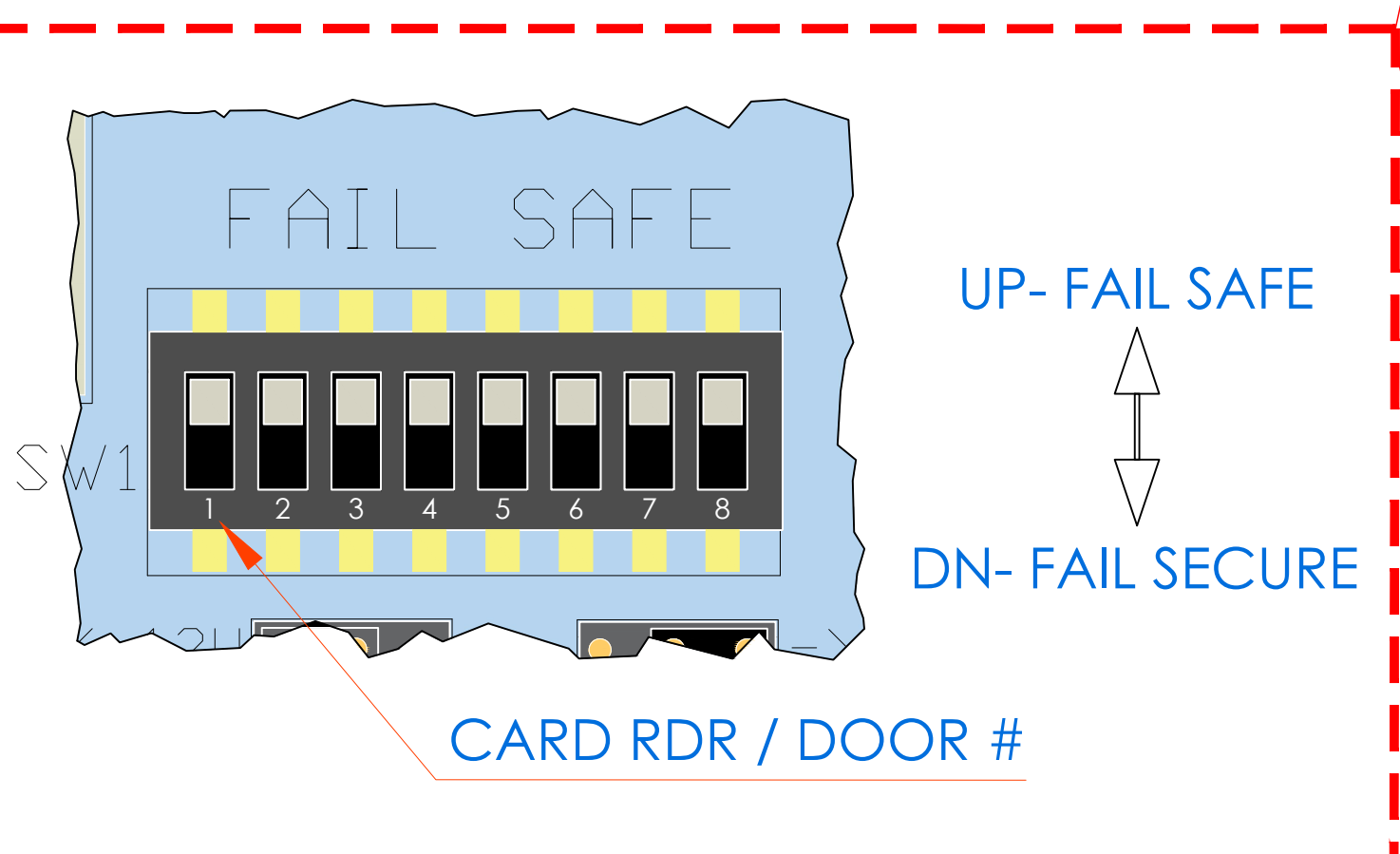
RS485 COMM



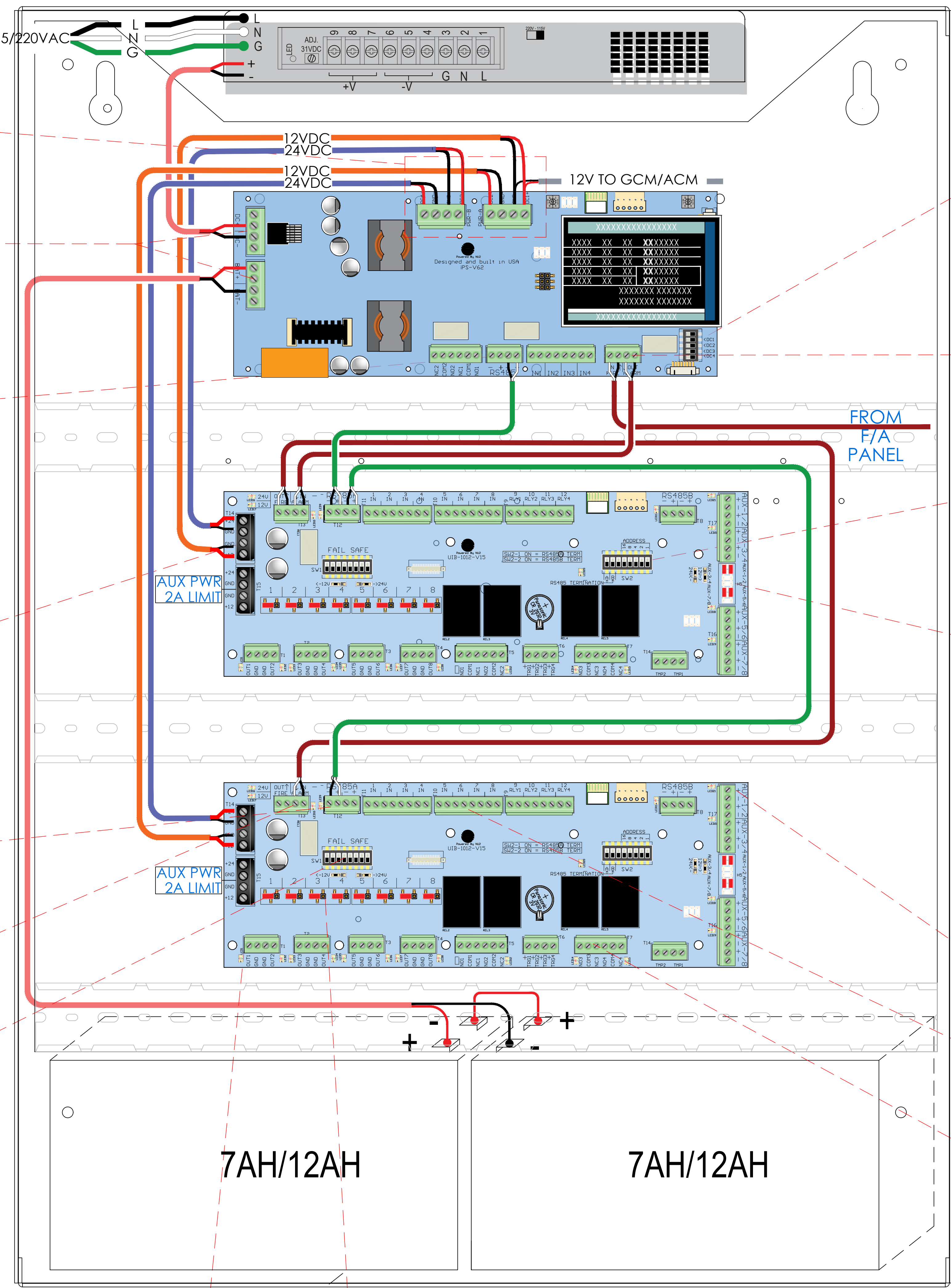
FIRE ALARM INTERFACE



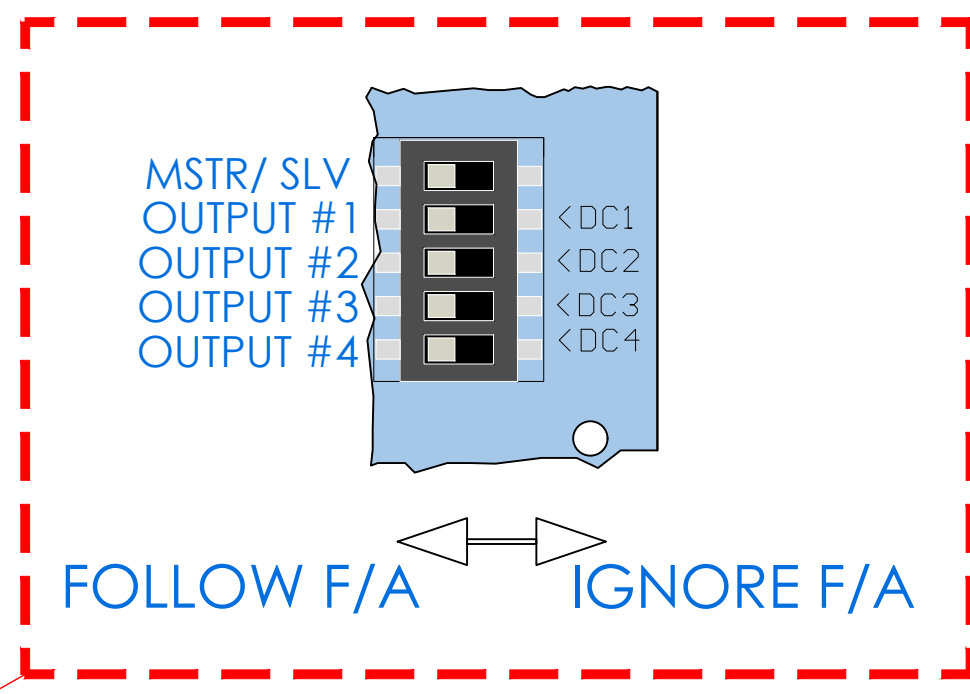
ELECTRIFIED LOCK SELECTOR FAIL SAFE/FAIL SECURE



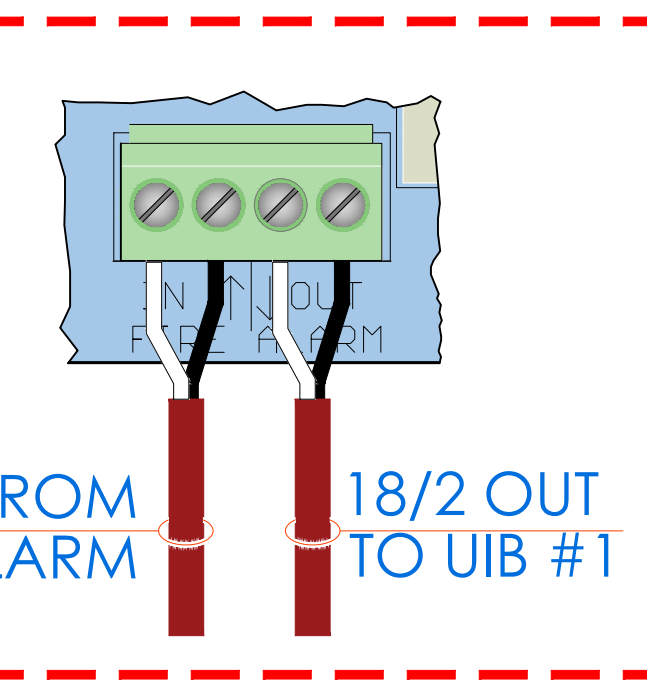
FOLLOW LOCAL AND NATIONAL ELECTRICAL WIRING CODES



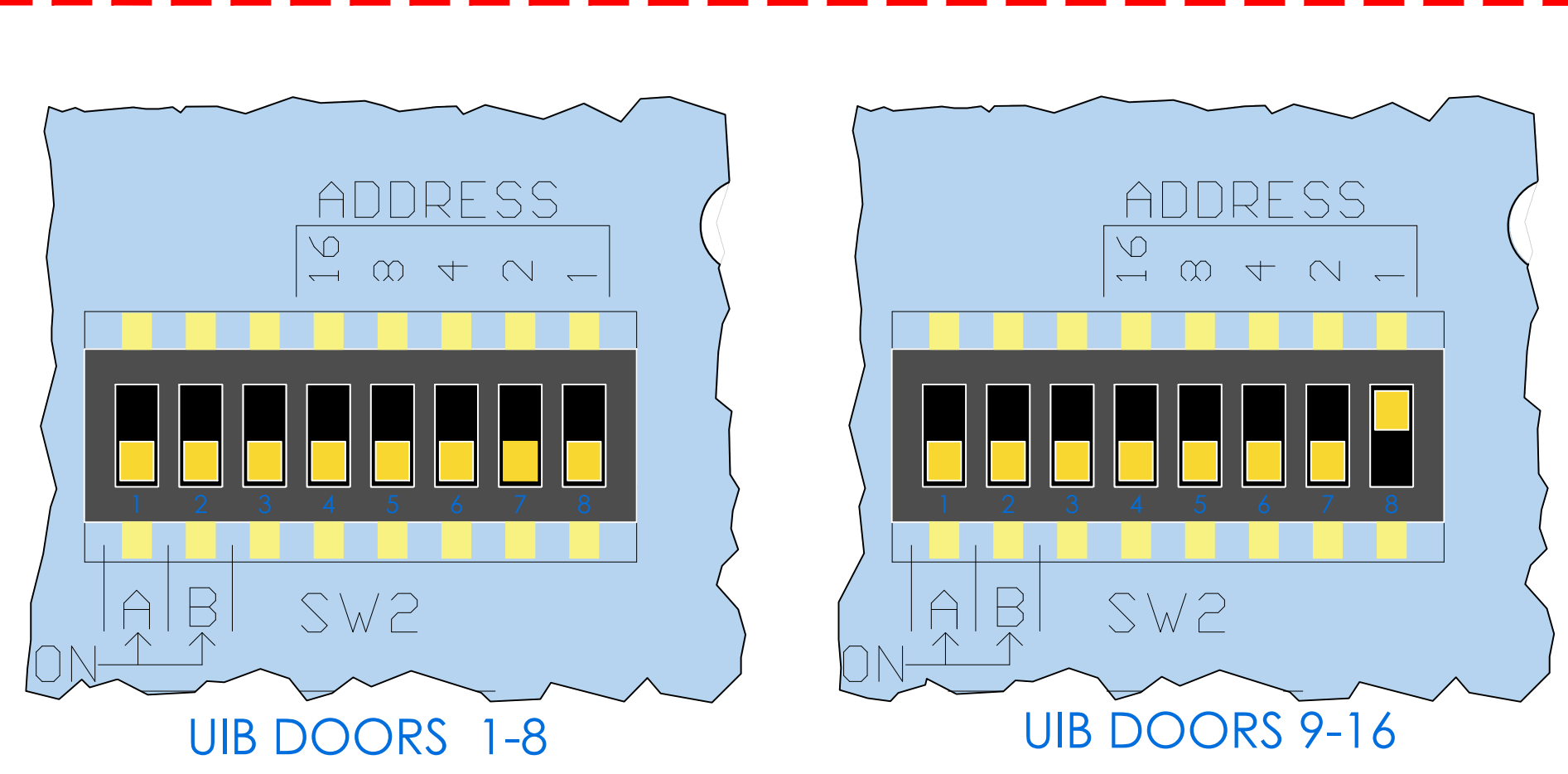
FIRE ALARM OUTPUT CONTROL



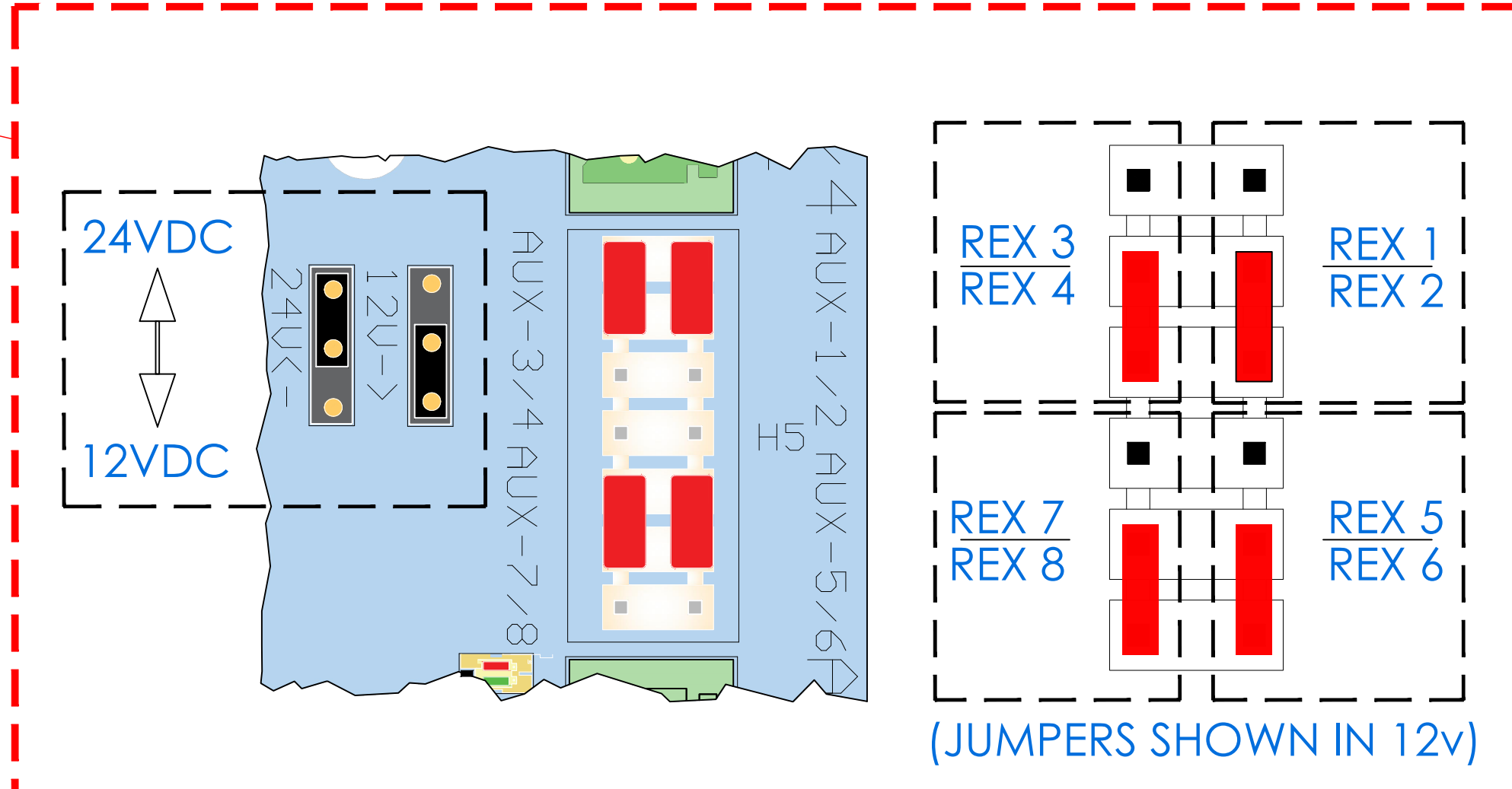
FIRE ALARM



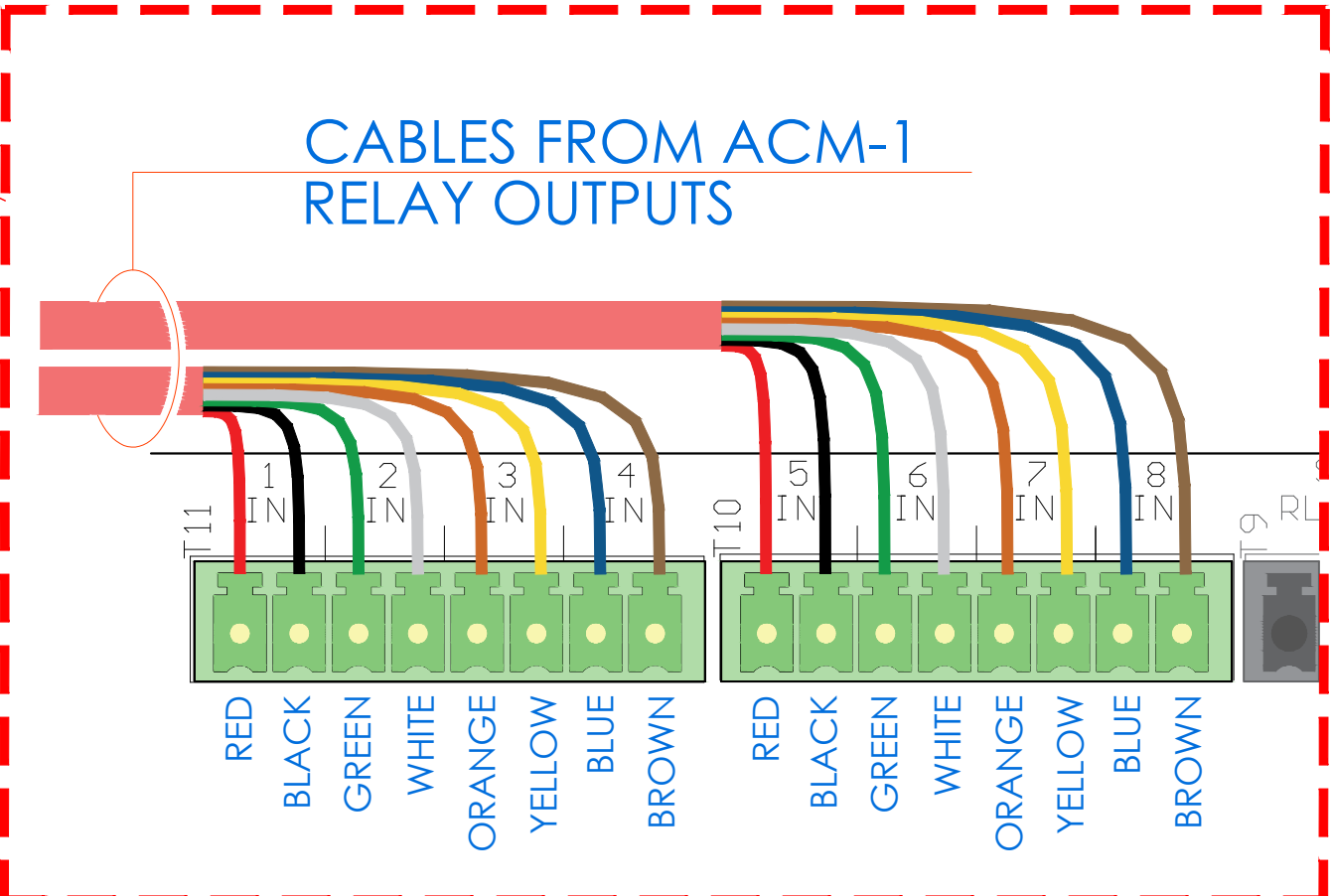
DIP SWITCH SETTINGS FOR DOOR ADDRESSING



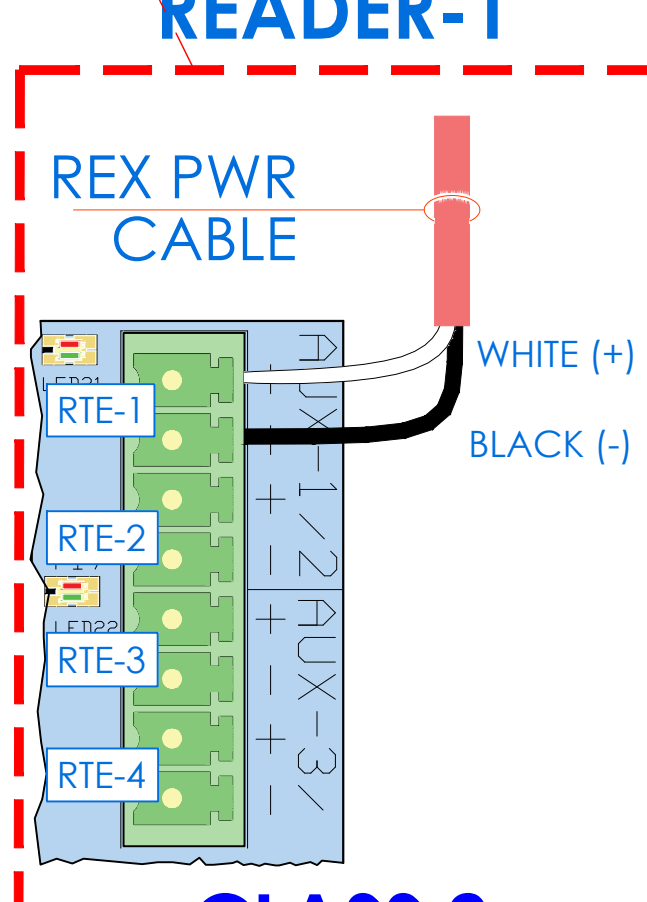
RTE POWER SETTINGS FOR DOORS 1 THRU 8



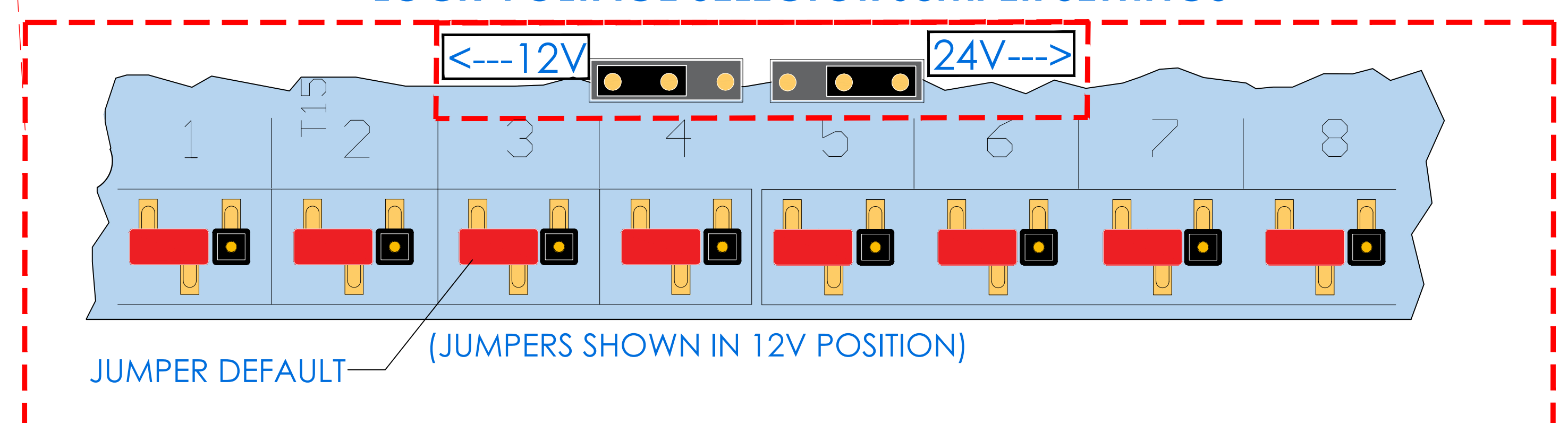
TYP. UIB INPUT CONNECTIONS



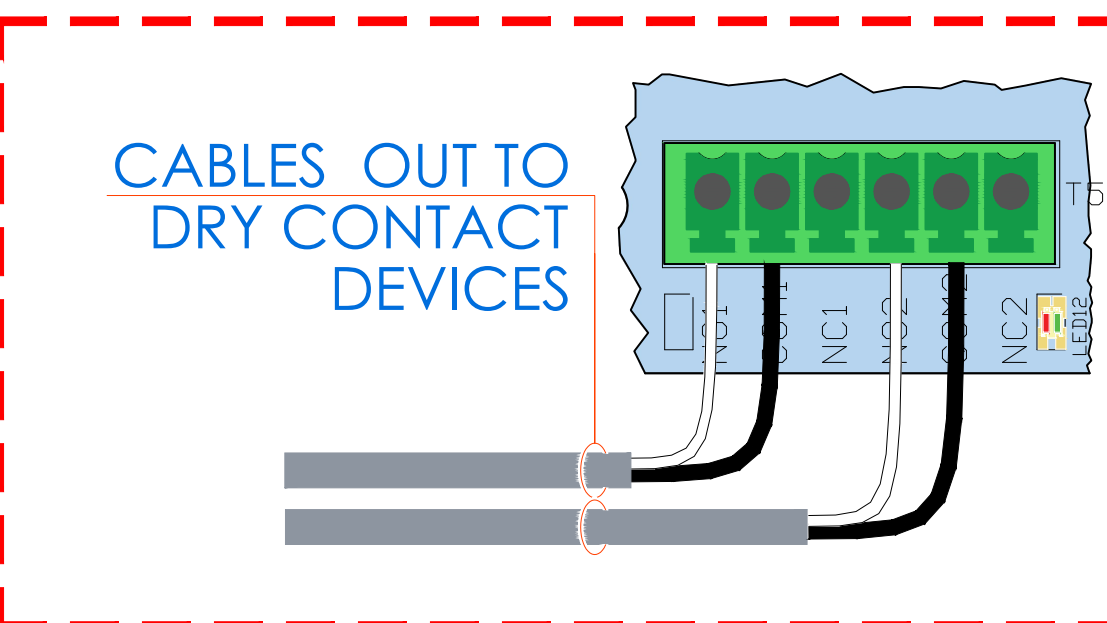
RTE POWER FOR READER-1



LOCK VOLTAGE SELECTOR JUMPER SETTINGS



TYPICAL DRY CONTACT CONNECTIONS



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	
9/26/2019	ISSUED FOR BID	
10/26/2019	REVISED-ISSUED FOR BID	
1/15/2020	REVISED-ISSUED FOR BID	



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PROJECT:

Yonkers Public School 16

759 N. BROADWAY

YONKERS, NY 10701

ITSTAR DRAWING WIRING DIAGRAM

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO.	DATE	1/27/2019
XXXXXX	SCALE	N.T.S.
S.A. NO.	DRAWING NO.	SE-700
XXXXXX		

DEVICE PLACEMENT, RISER DEPTH, CABLE TYPES AND ROUTING, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.

1. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE ORGANIZATION'S SPECIFIC REQUIREMENTS, ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO CSCI BOE.

2. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ASSESS AS-NEEDED TO THE SATISFACTION OF BOE SECURITY MANAGER.

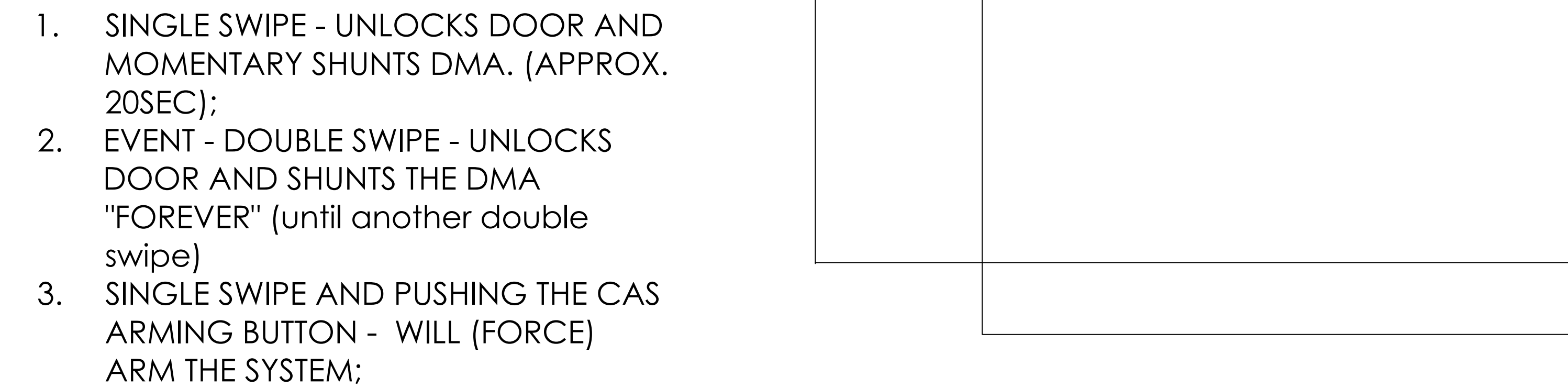
3. PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTHS DO NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.

4. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER IEEE STANDARDS.

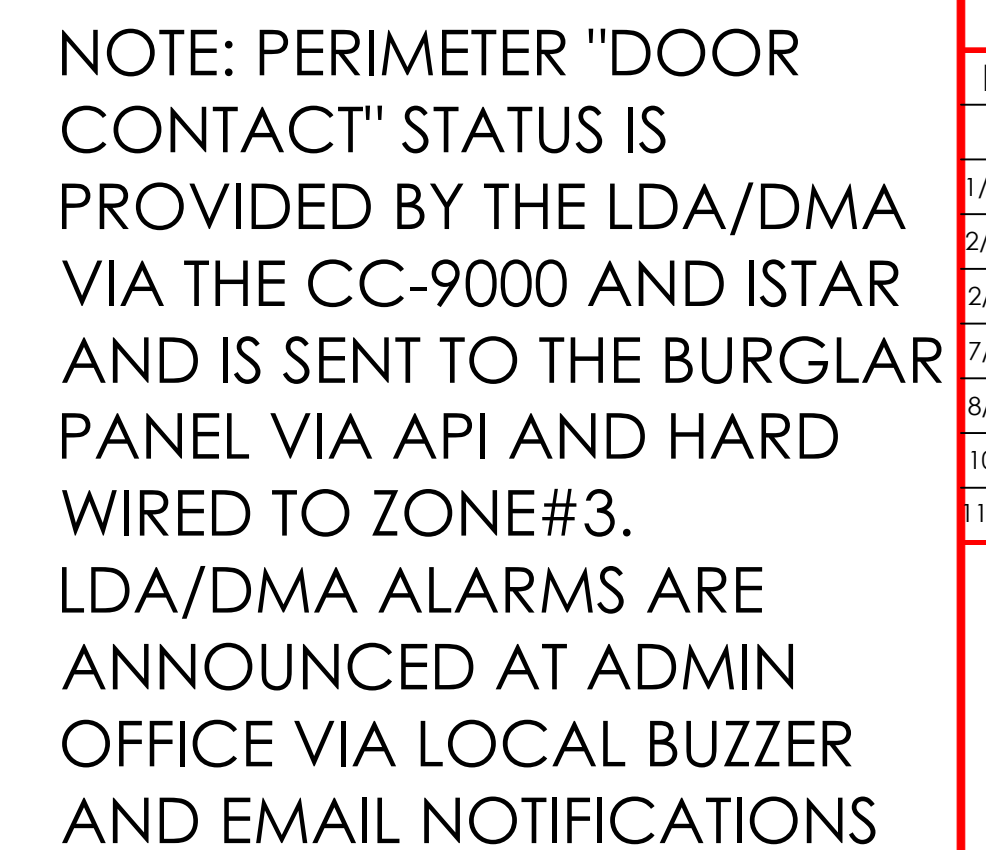
5. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDER'S RISER AND NOTE ON THE "AS-BUILT"

6. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS-BUILT" SET WITH TWO (2) "SEAHARD COPY" (2 SETS) AND A CD WITH "PDF FORMAT."

7. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMPLETION, TESTING, IT'S HAND-OVER TO SYSTEM PROGRAMMING ONLY.



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



ISSUED FOR:	
DATE	COMMENTS
10/10/2018	ISSUED FOR REVIEW / APPROVAL
18/01/2019	ISSUED FULL SET FOR APPROVAL
19/09/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
15/05/2019	REVISED
26/02/2019	ISSUED FOR BID
16/06/2019	REVISED-ISSUED FOR BID
15/02/2020	REVISED-ISSUED FOR BID



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Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

TITLE:

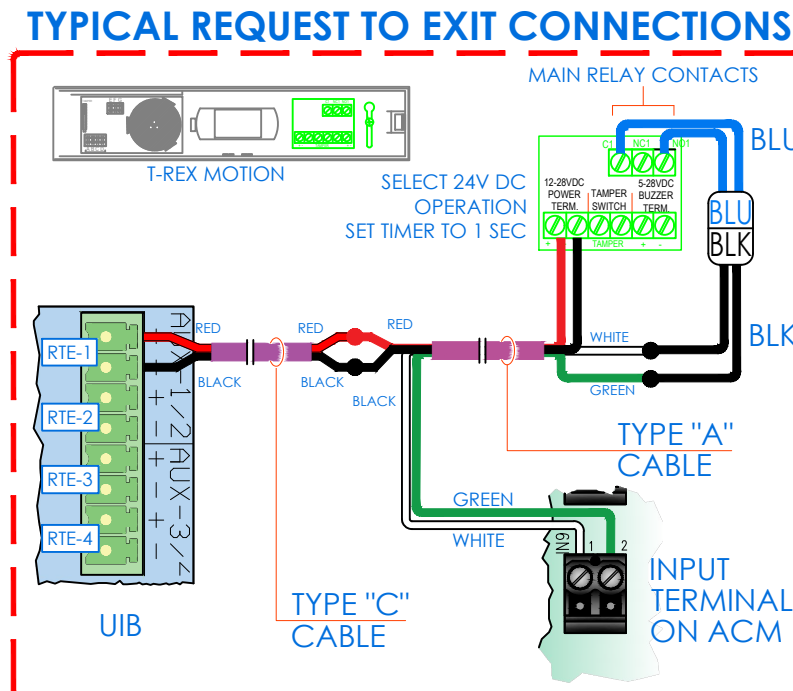
BURGLAR & ACCESS
INTERFACE

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE:	
XXXXXX	11/27/2019	
	SCALE:	
	N.T.S.	
S.A. NO:	DRAWING NO:	
XXXXXX	SE-701	

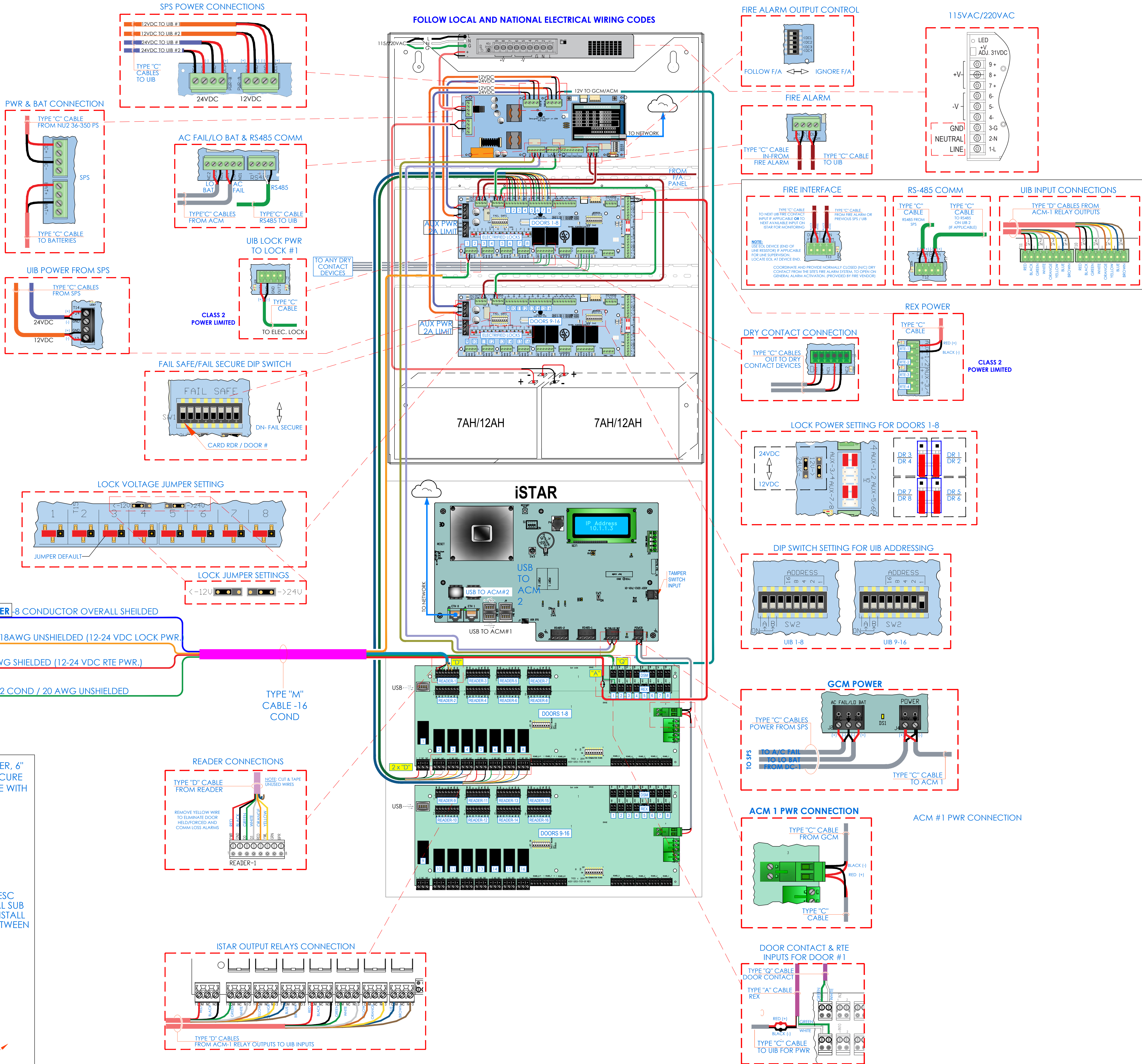
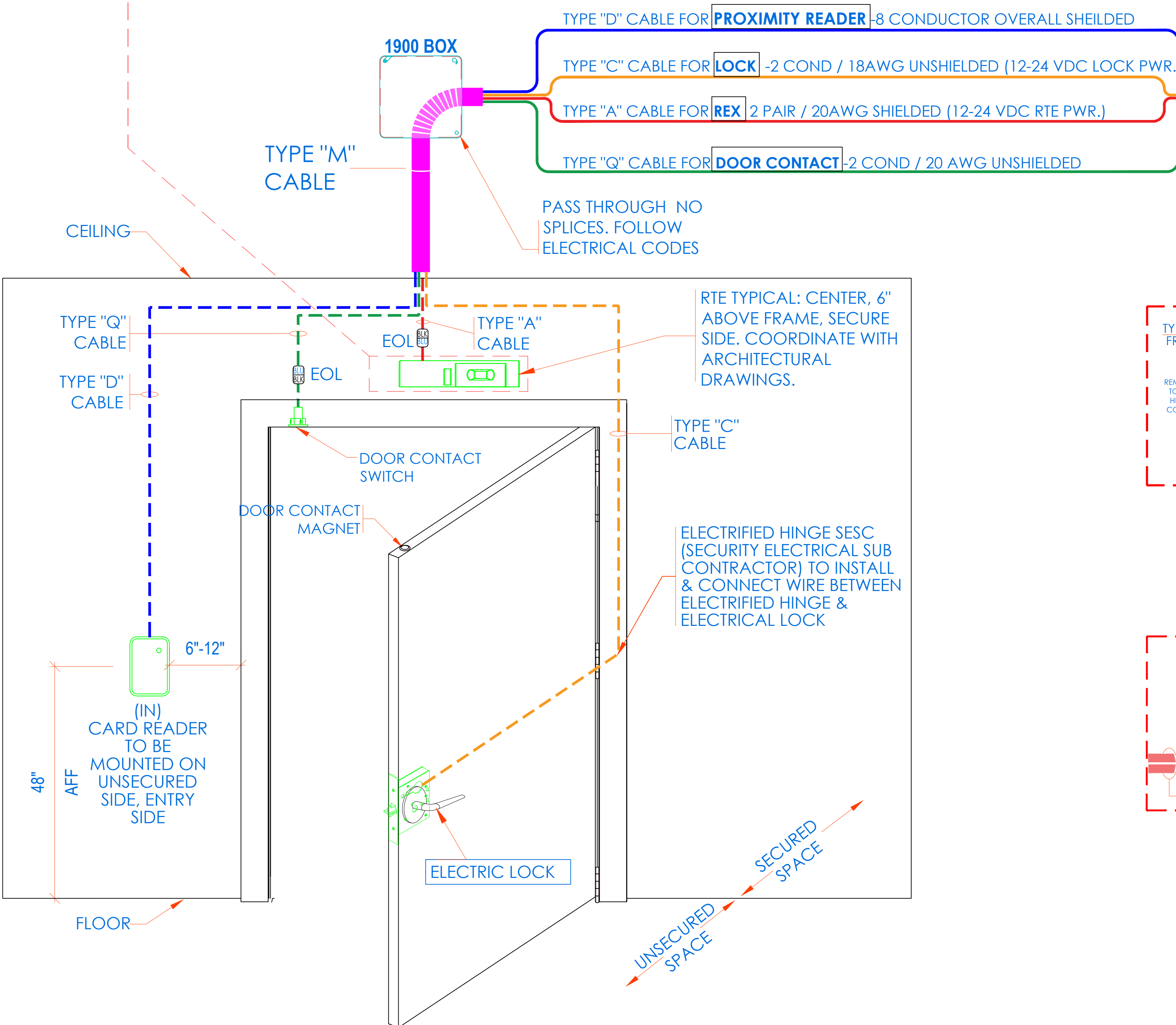
ULTRA SE TYPICAL WIRING DIAGRAM - MOTION REX

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.

DEVICES: PROVIDE PLACEMENT, RISER DEPTH, CABLE TYPES AND ROUTES, DEVICE TERMINATION AND OTHERS ARE FOR REFERENCE ONLY.

THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING AND VERIFYING THE ENTIRE PROJECT REQUIREMENTS AND THE VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COY BOE.

CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND AS NEARLY AS POSSIBLE, VERIFY SUFFICIENCY OF BOE SECURITY MANAGER.

PRIOR TO PULLING CAT-6 WIRES, CONTRACTOR TO VERIFY CABLE LENGTHS SHOULD NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.

ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER IEEE 802.3AB.

CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISER AND NOTE ON THE "AS BUILT"

CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH "D" SIZE HARD COPY (J2 SET) AND A CD WITH .PDF FORMAT.

CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMPLETION. RISES NOT LIMITED TO SYSTEM PROGRAMMING ONLY.

USED FOR:

DATE	COMMENTS
2018	ISSUED FOR REVIEW / APPROVAL
2019	ISSUED FULL SET FOR APPROVAL
2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
2019	REVISED
2019	ISSUED FOR BID
2019	REVISED-ISSUED FOR BID
*2020	REVISED-ISSUED FOR BID



CAD set and all inventions, ideas, designs.

Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

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

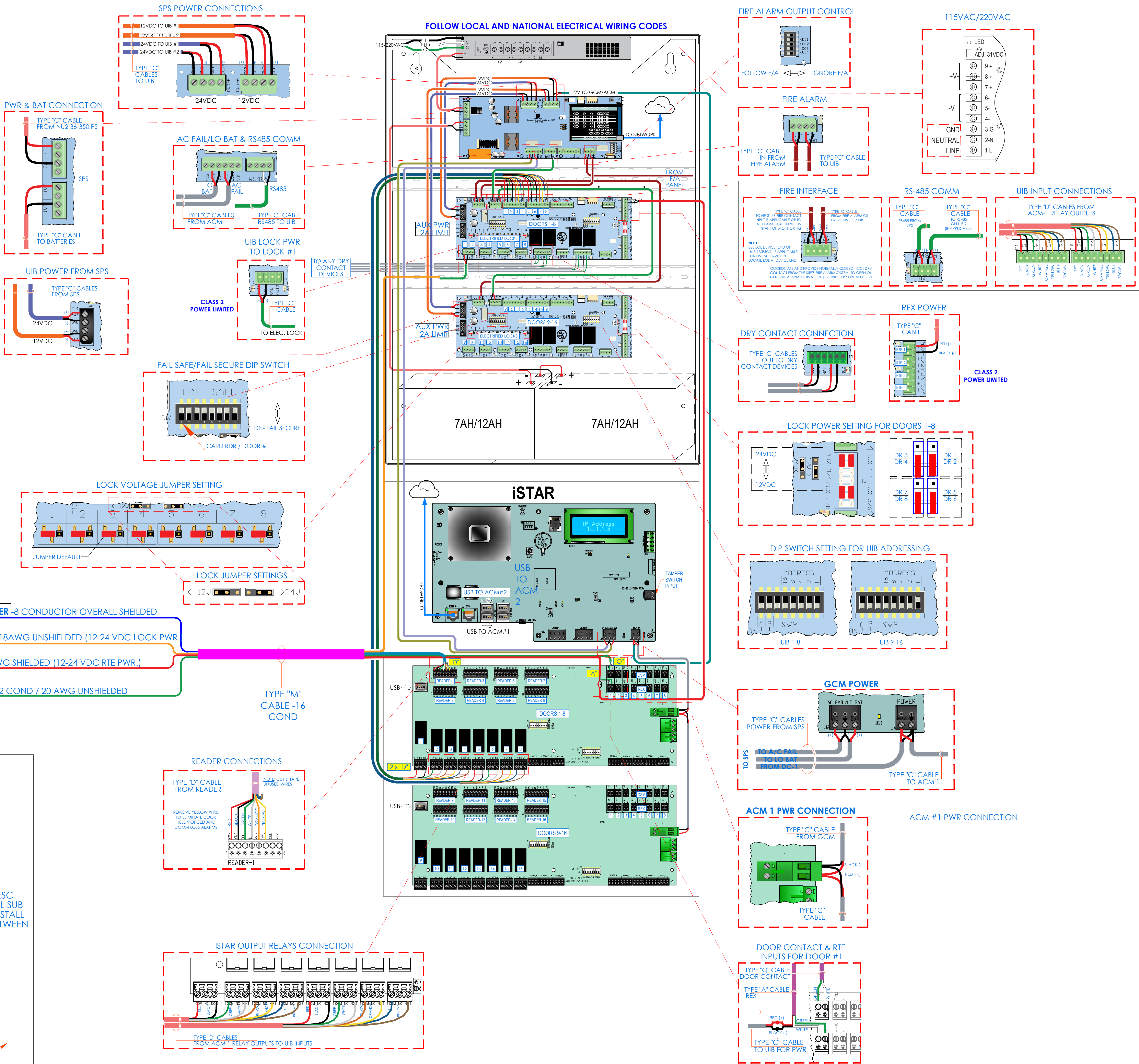
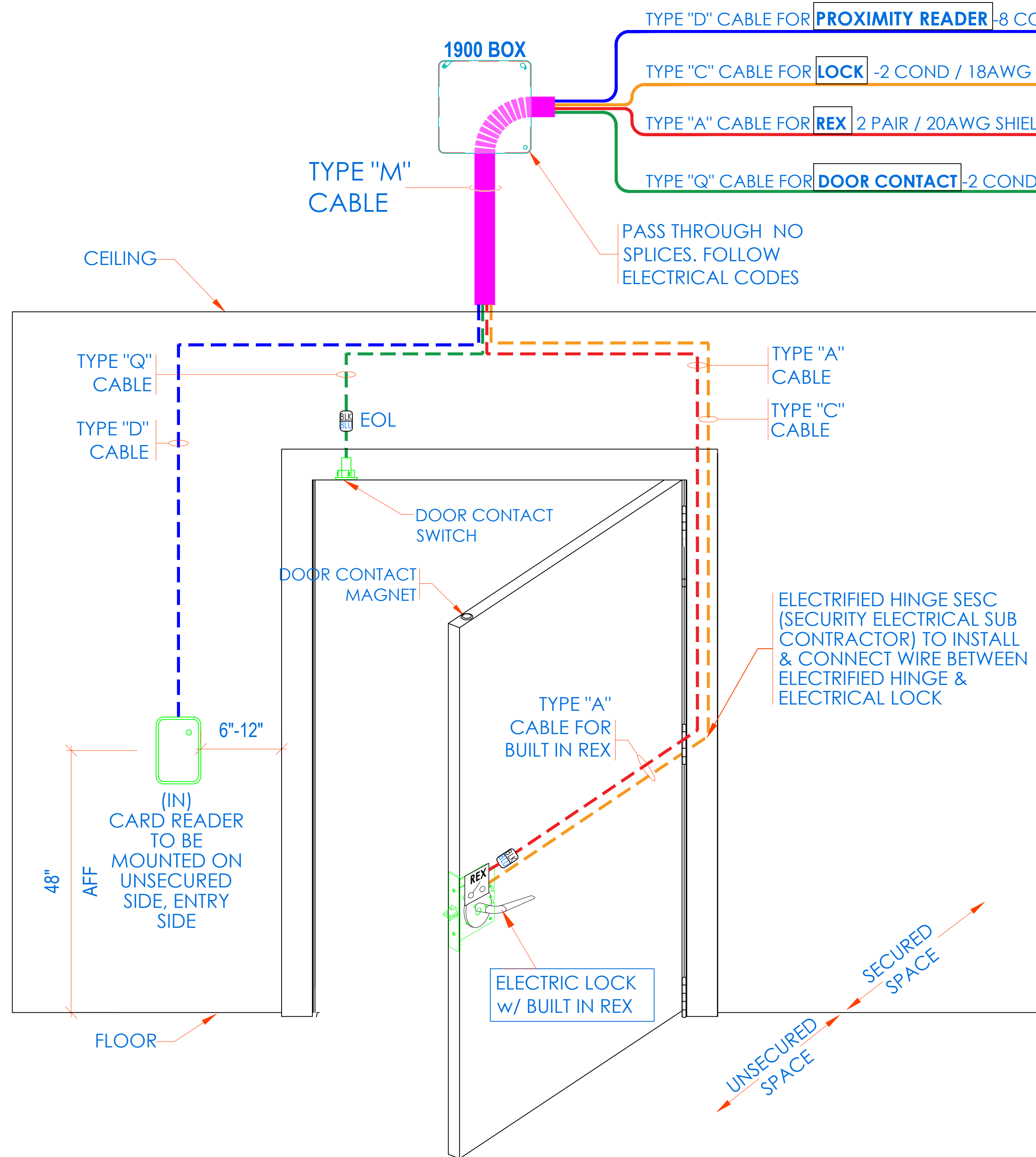
I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
ORDER NO:	DATE	11/27/2019
XXXX	SCALE	N.T.S.
NO:	DRAWING NO:	
XXXX	SE-702-A	

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	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	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	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	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

REX IN LOCK



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

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 7. CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH PDF AND HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING, IT'S RULES LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:	
DATE	COMMENTS
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2/18/2019	ISSUED FULL SET FOR APPROVAL
2/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
7/15/2019	REVISED
8/24/2019	ISSUED FOR BID
10/24/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

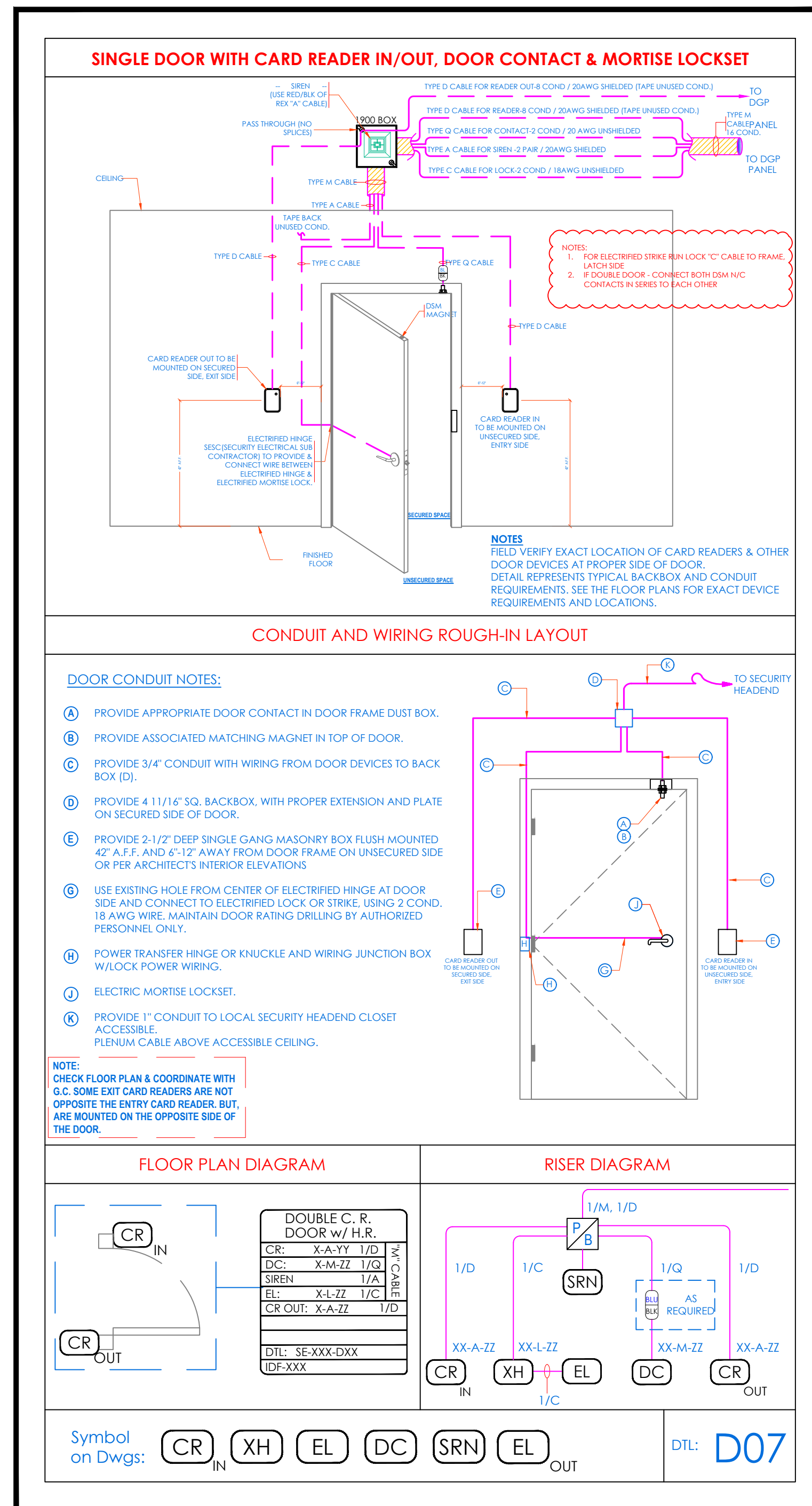
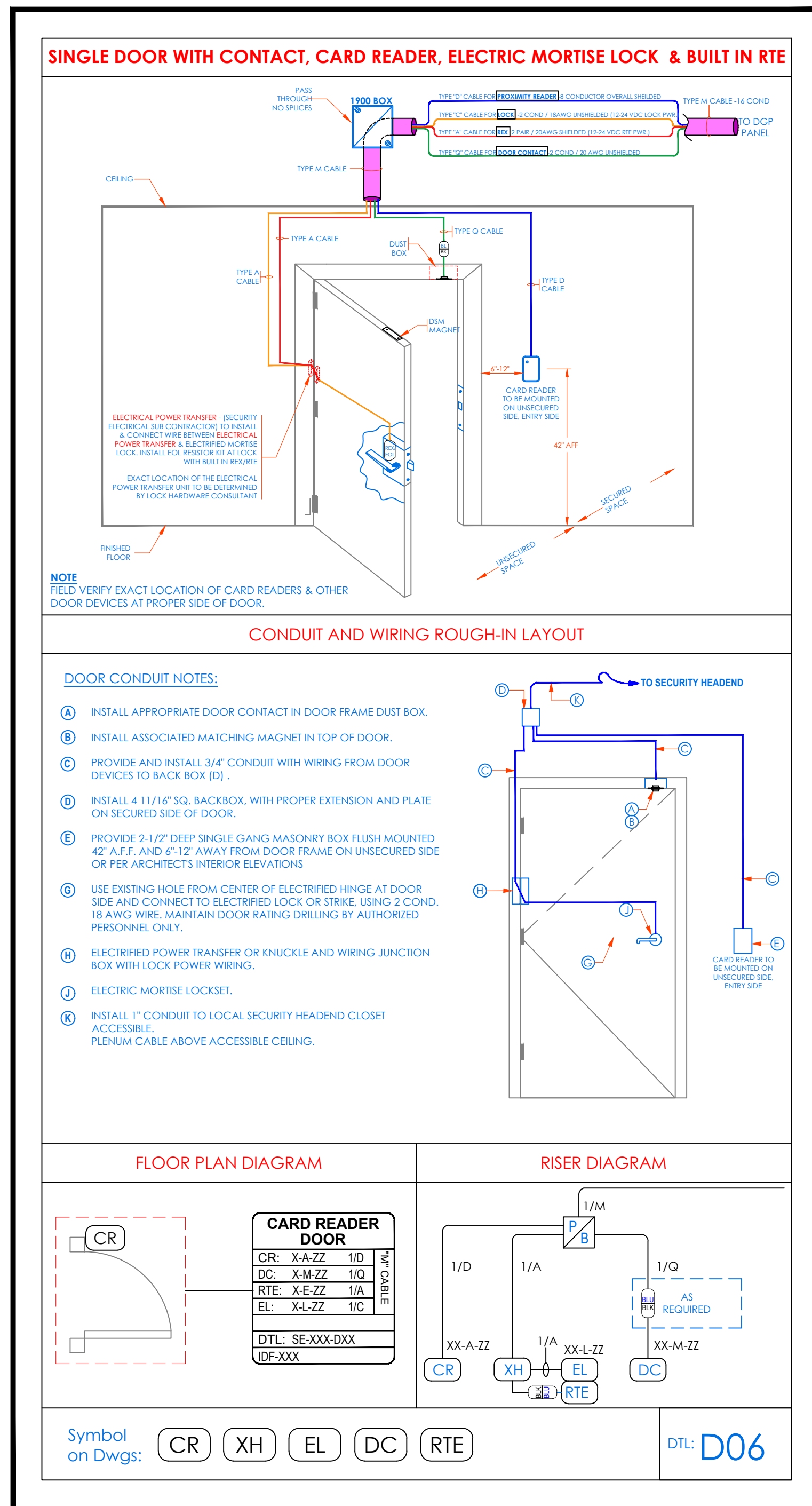
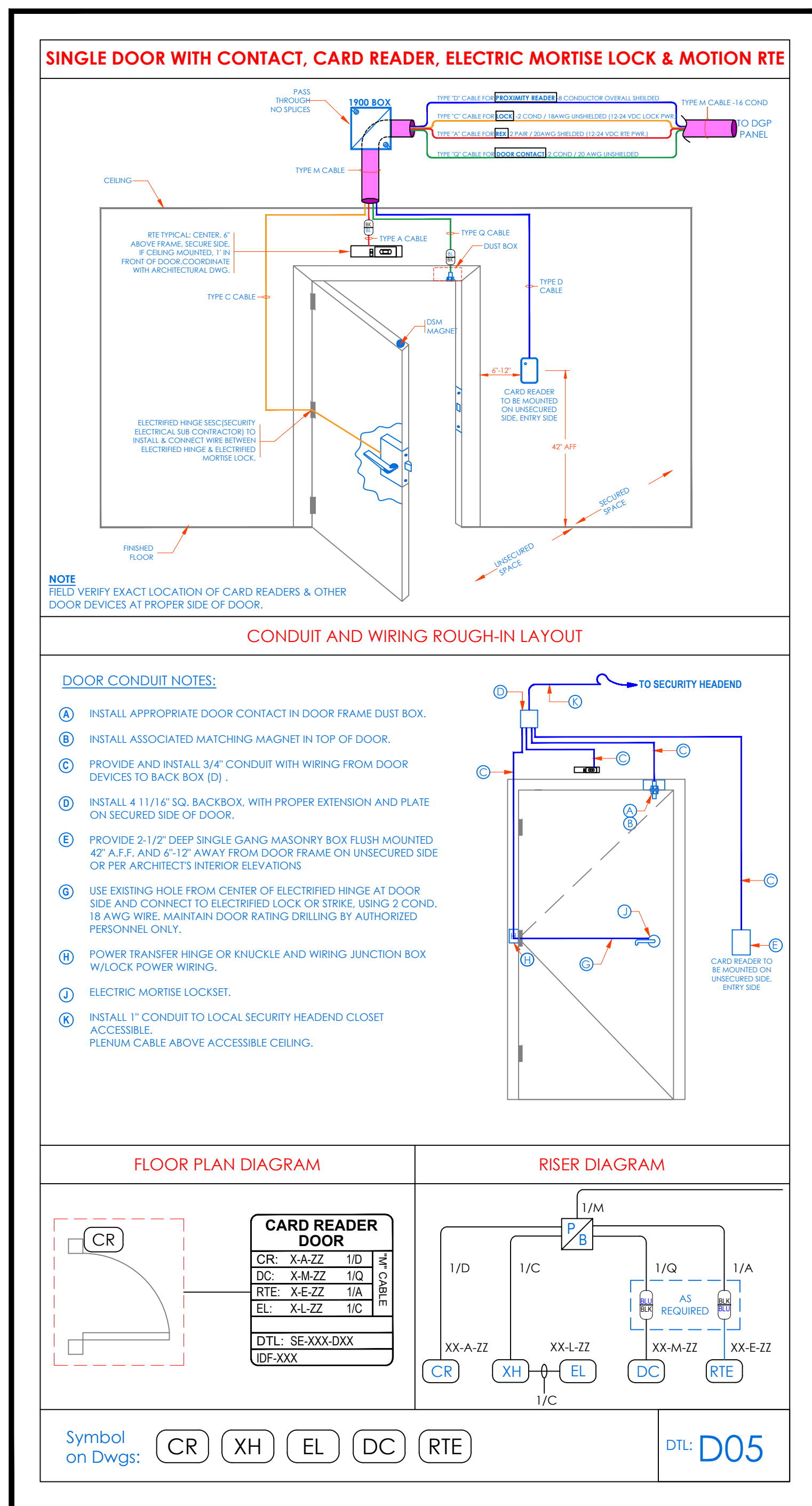
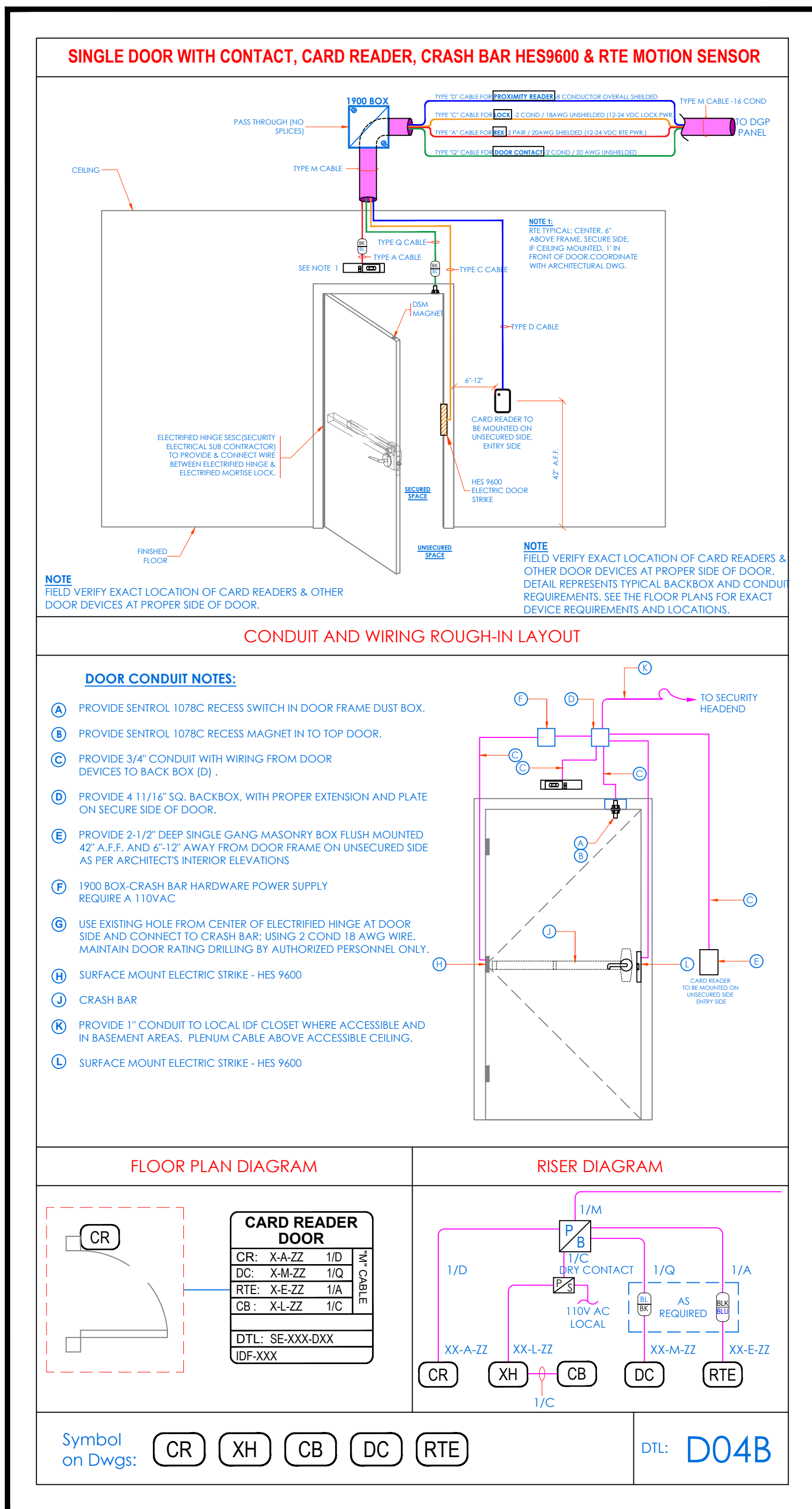
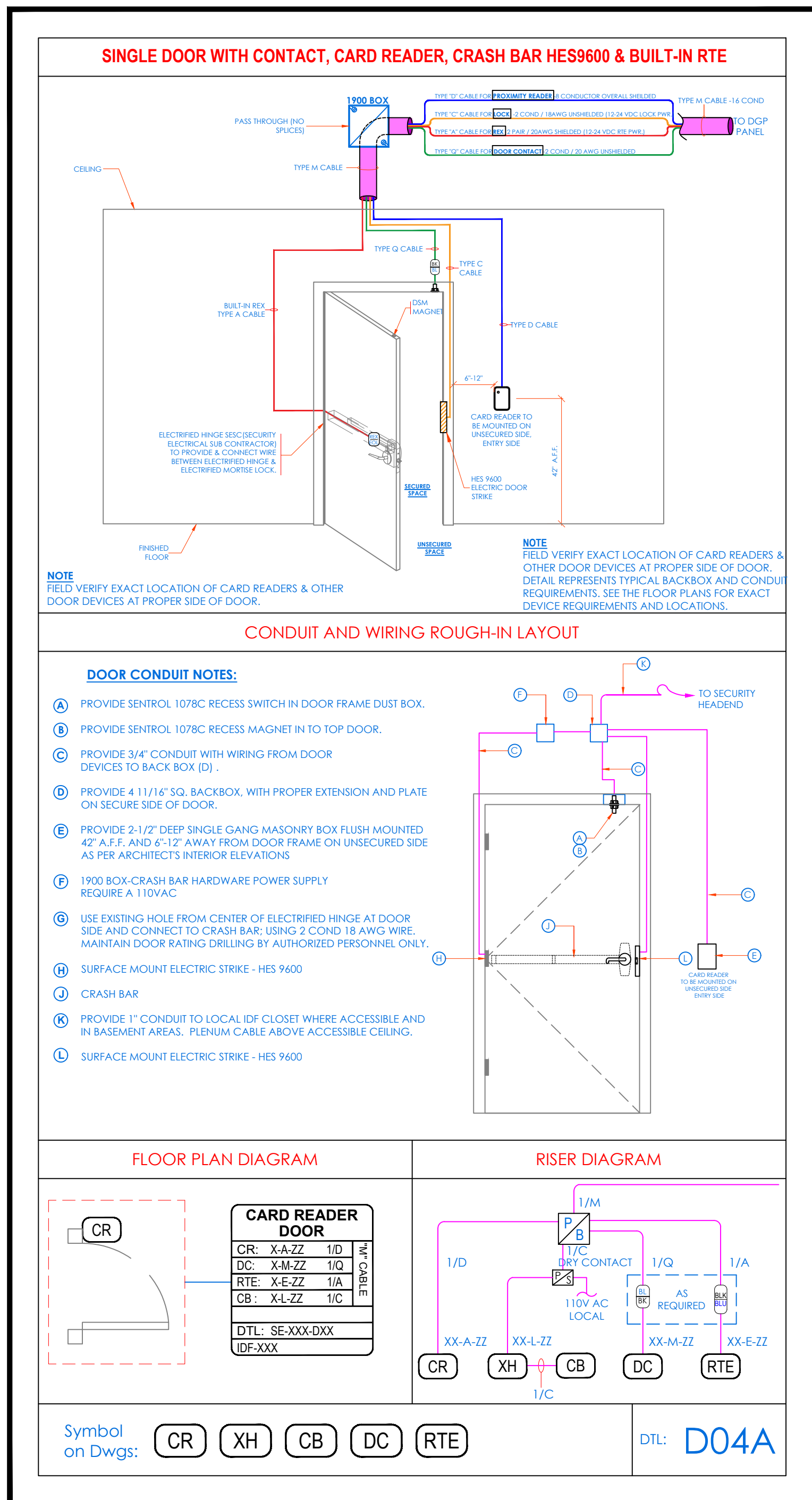
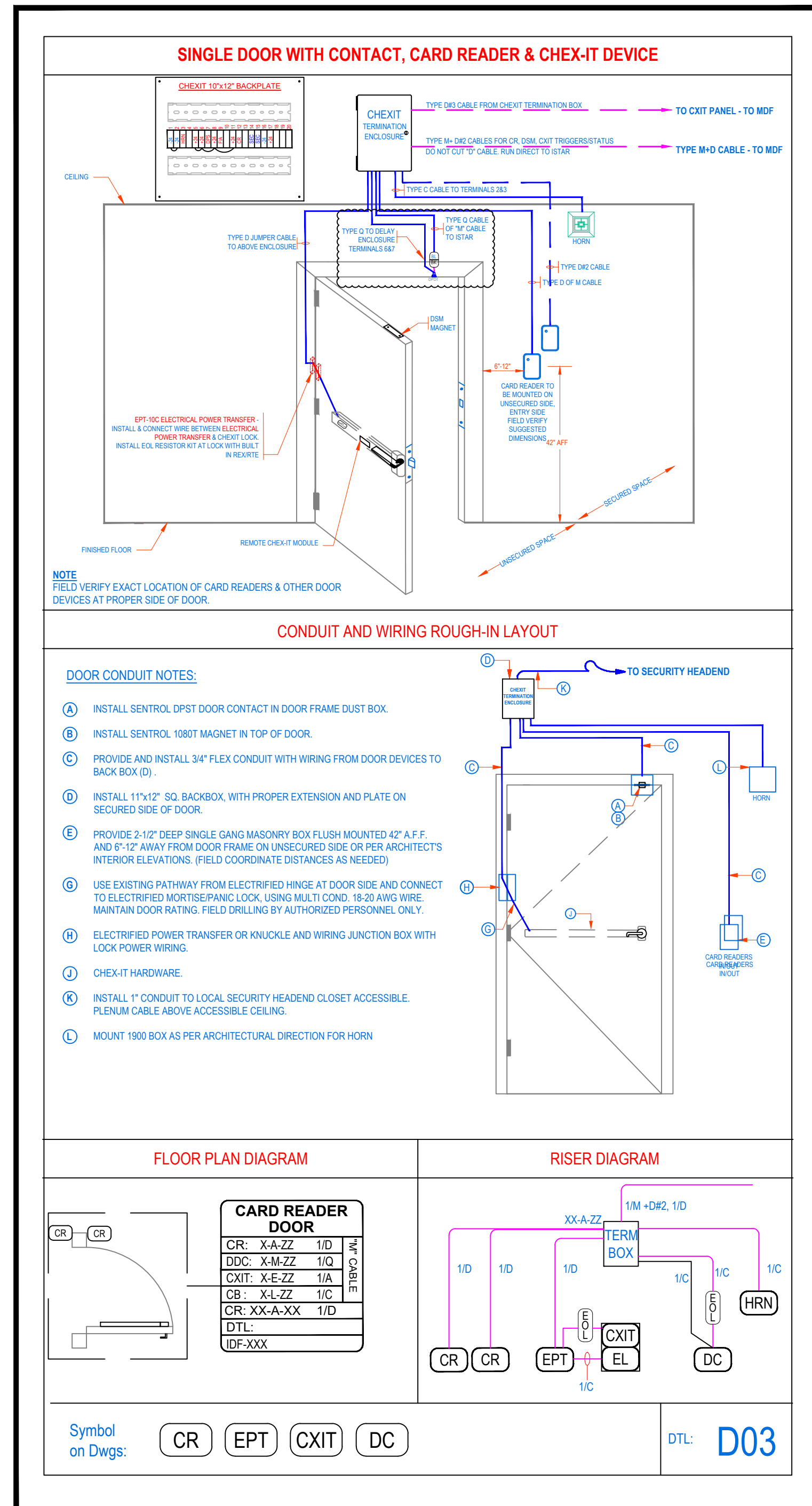
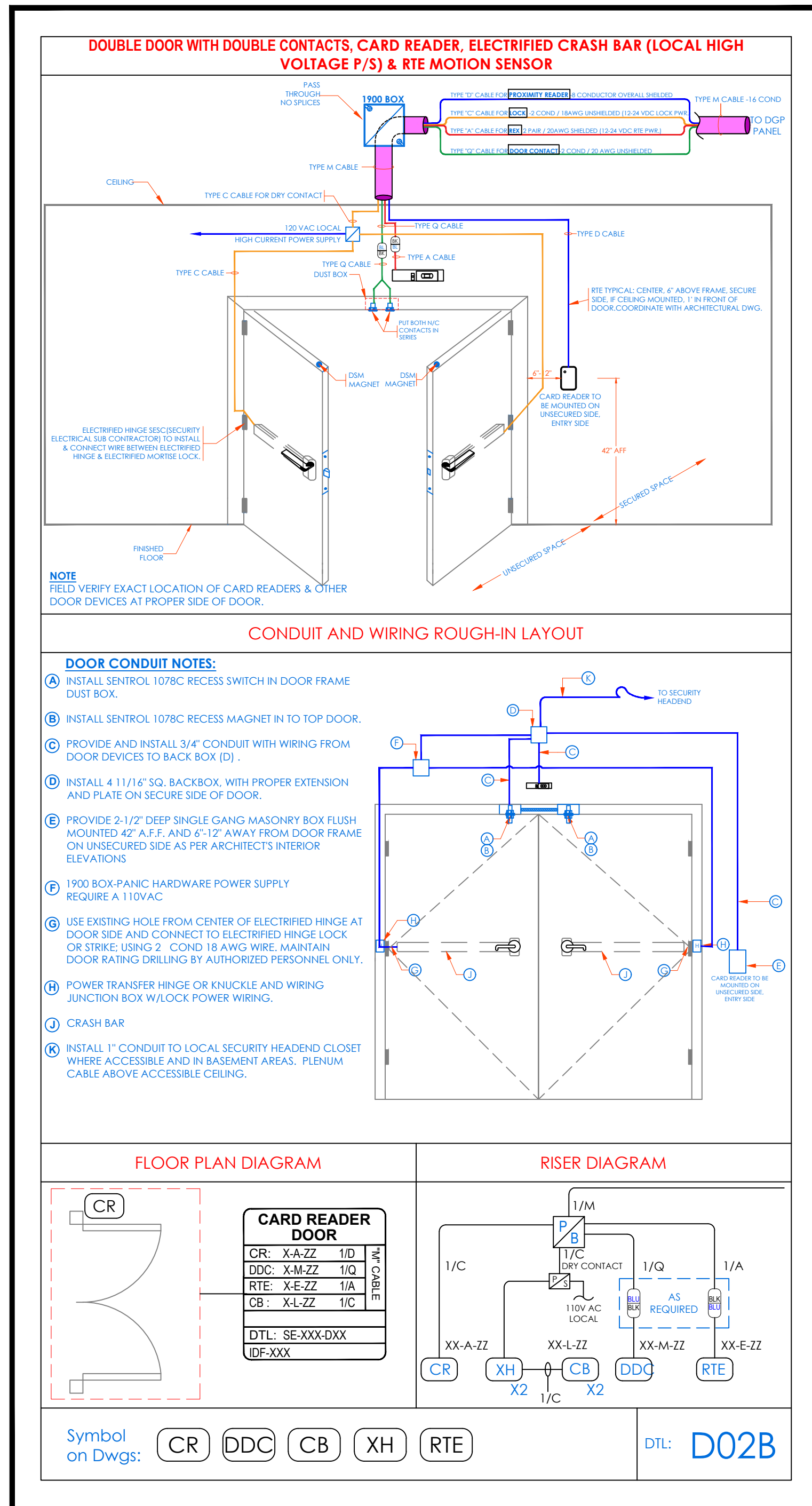
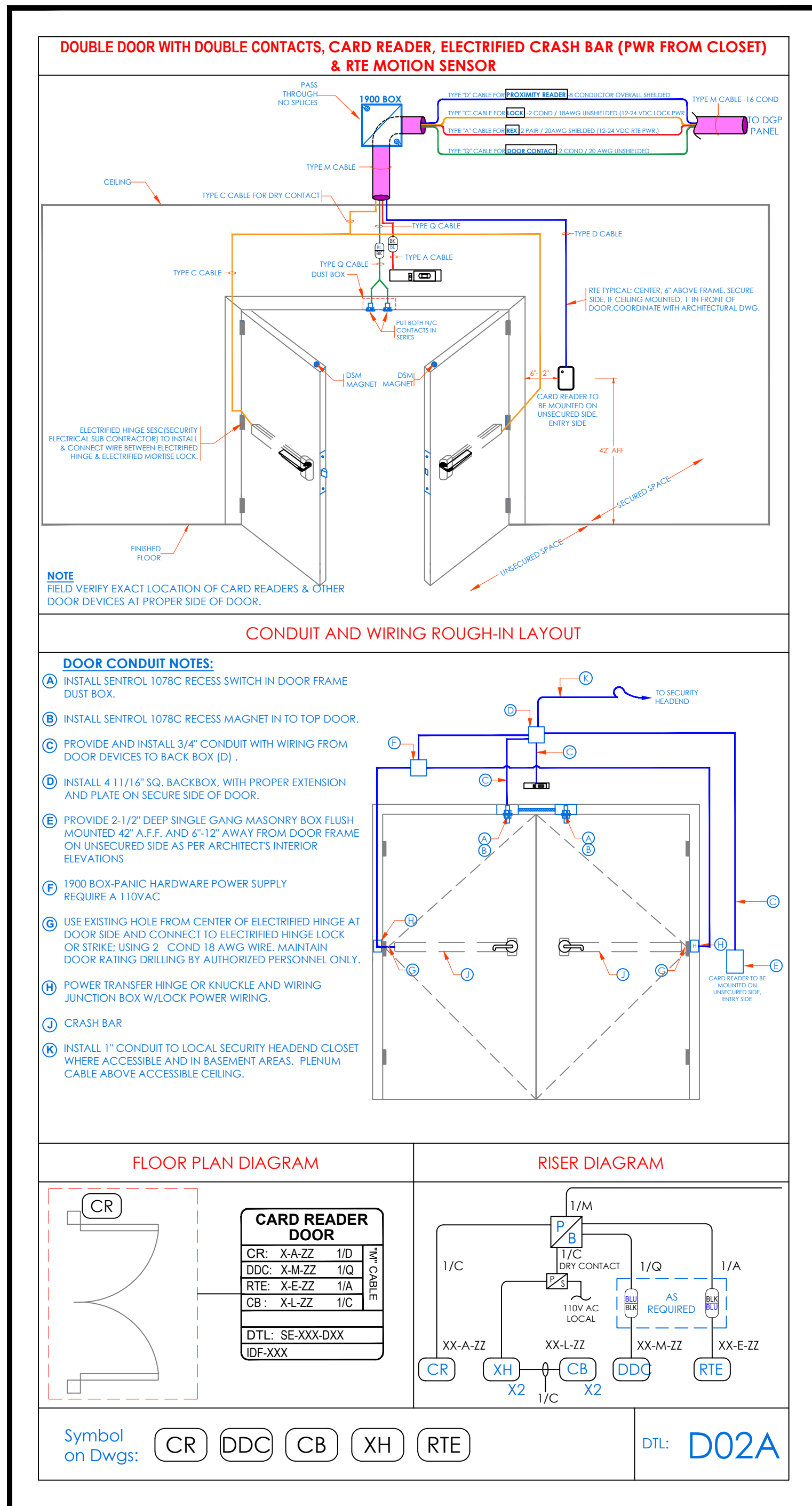
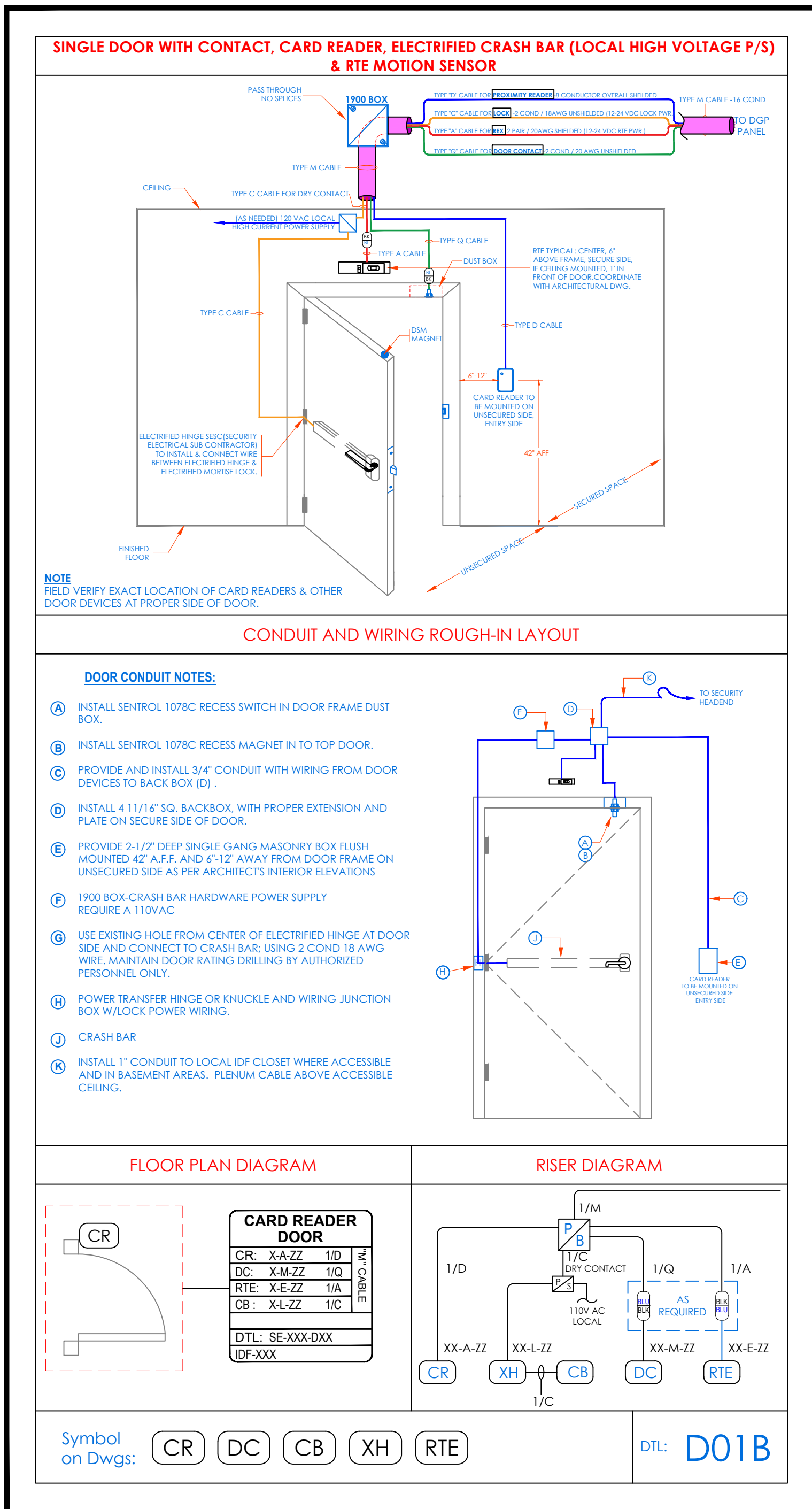
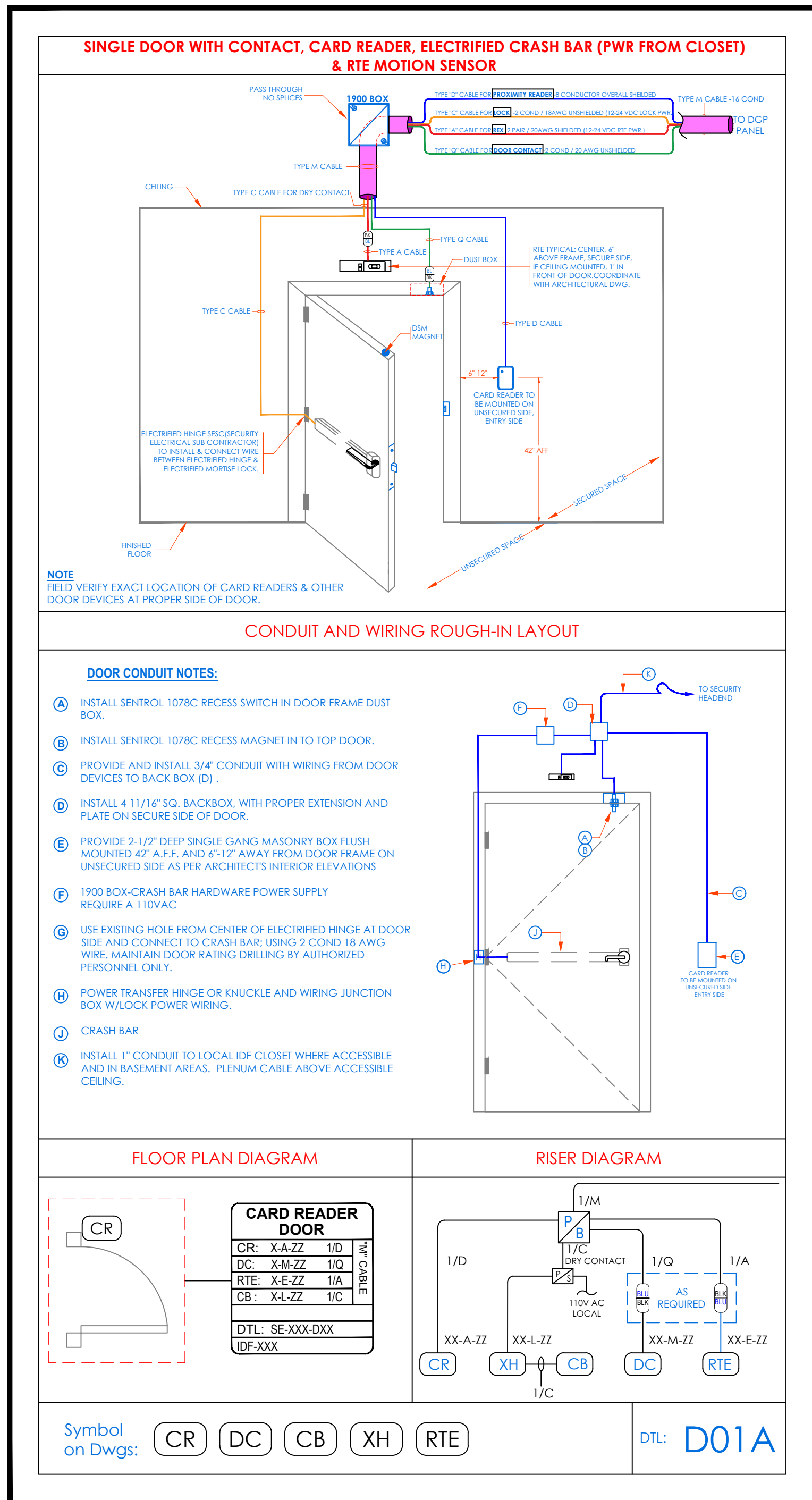


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Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

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 CVI BIDE.
 - CONTRACTOR TO VERIFY CAMERA'S FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF SITE 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'.
 - CONTRACTOR TO PRODUCE AND DELIVER A BOUND 'AS BUILT' SET IN BOTH 'PDF' AND 'PRINT' 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
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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



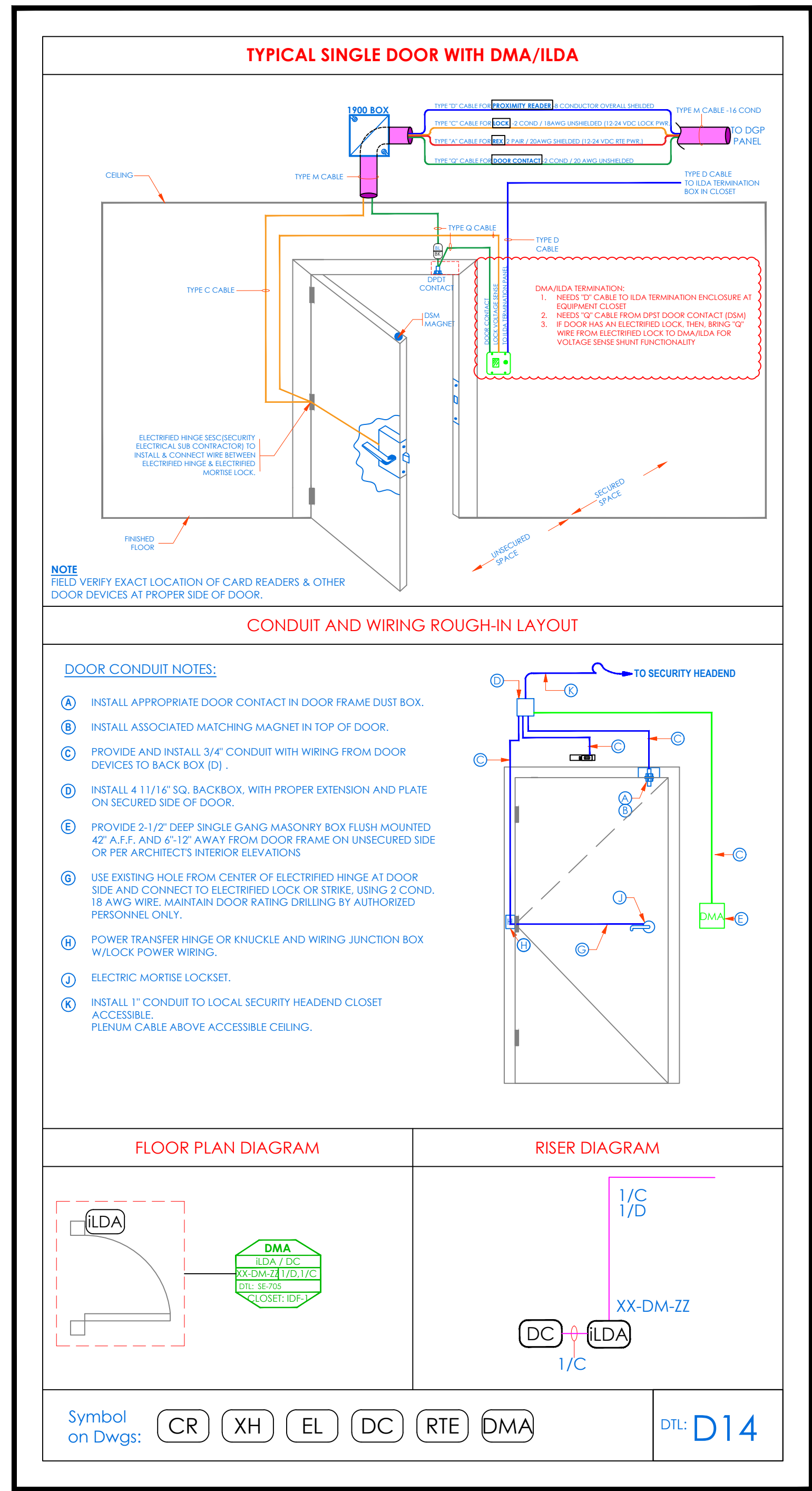
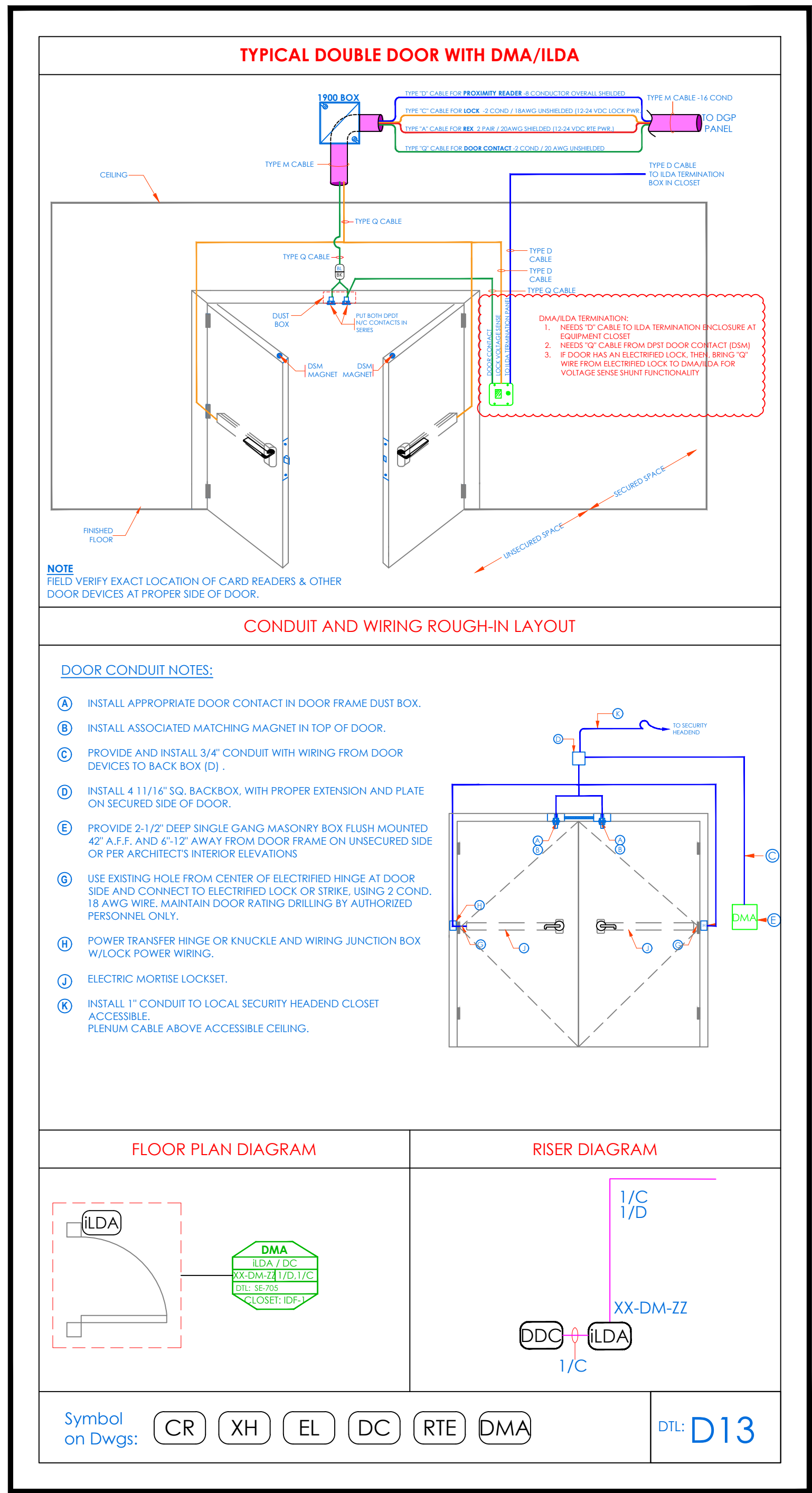
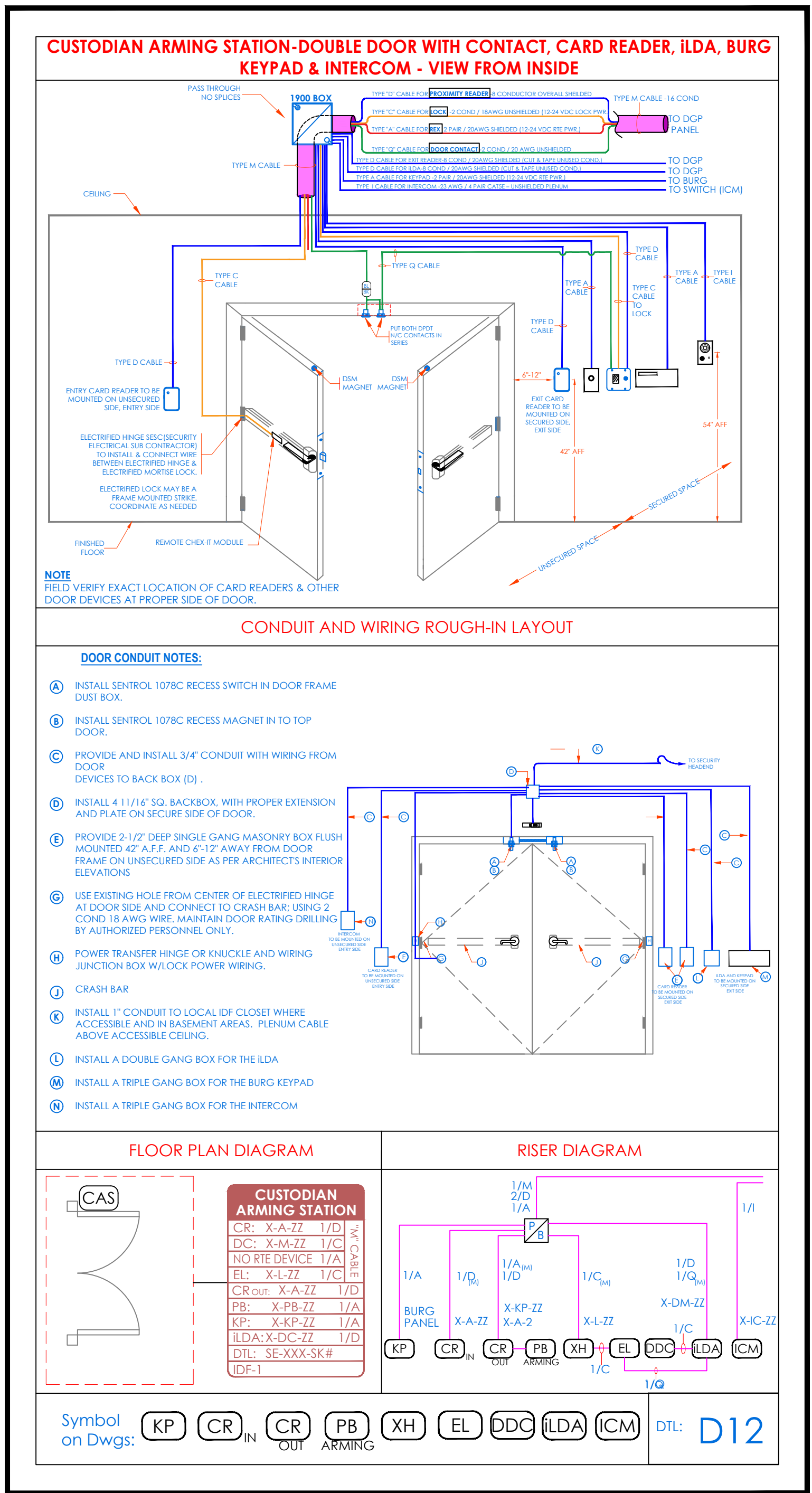
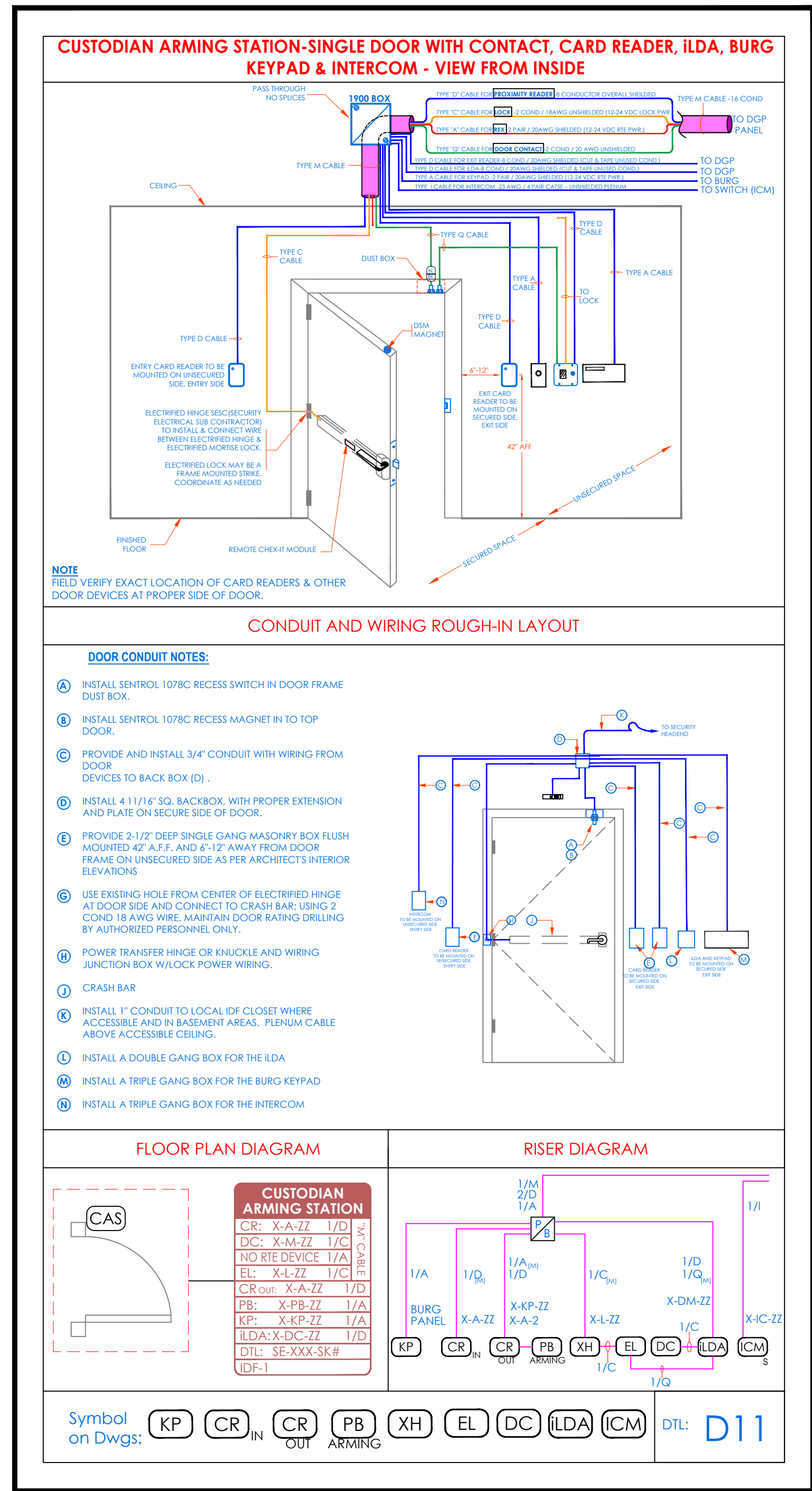
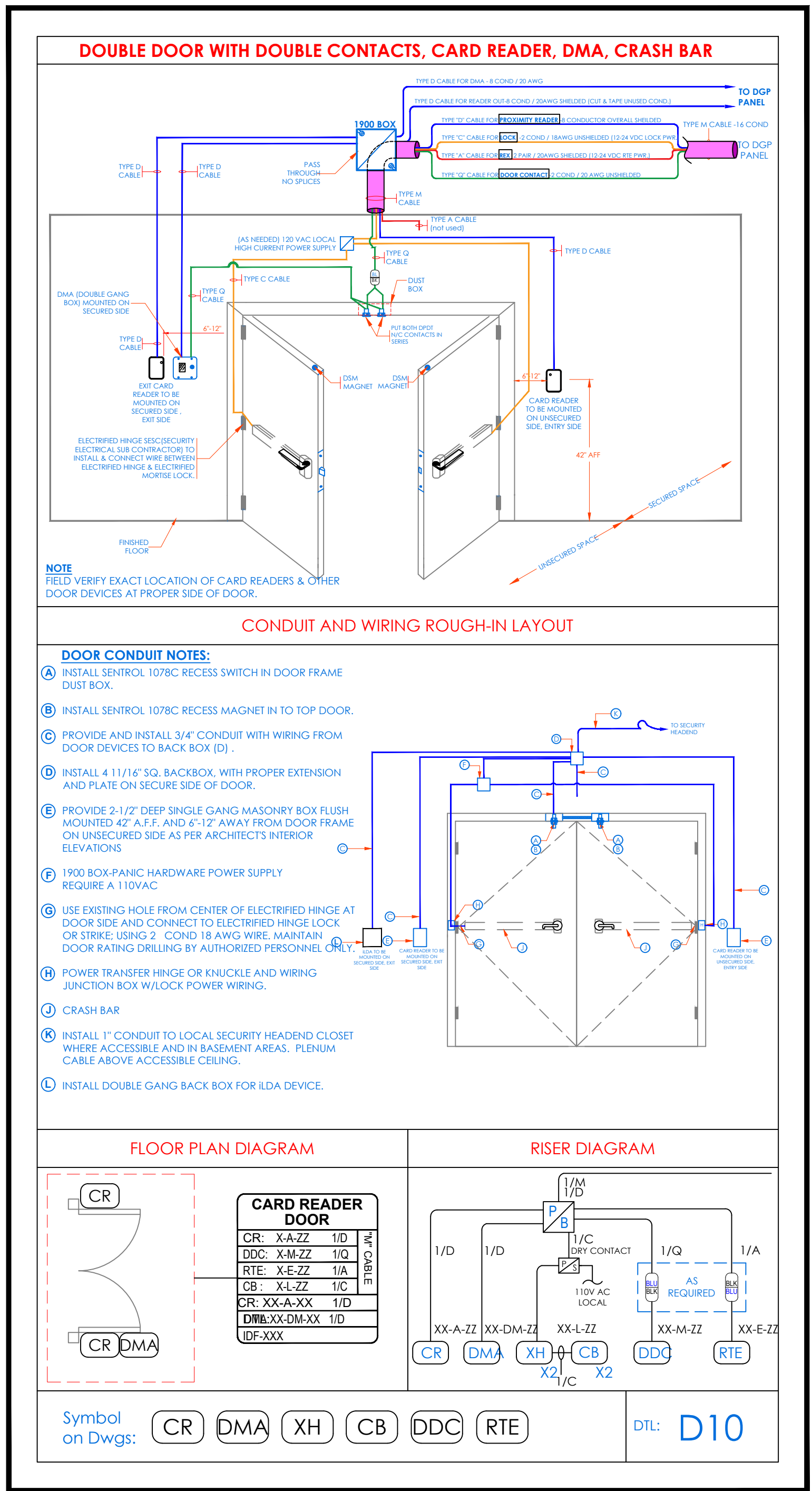
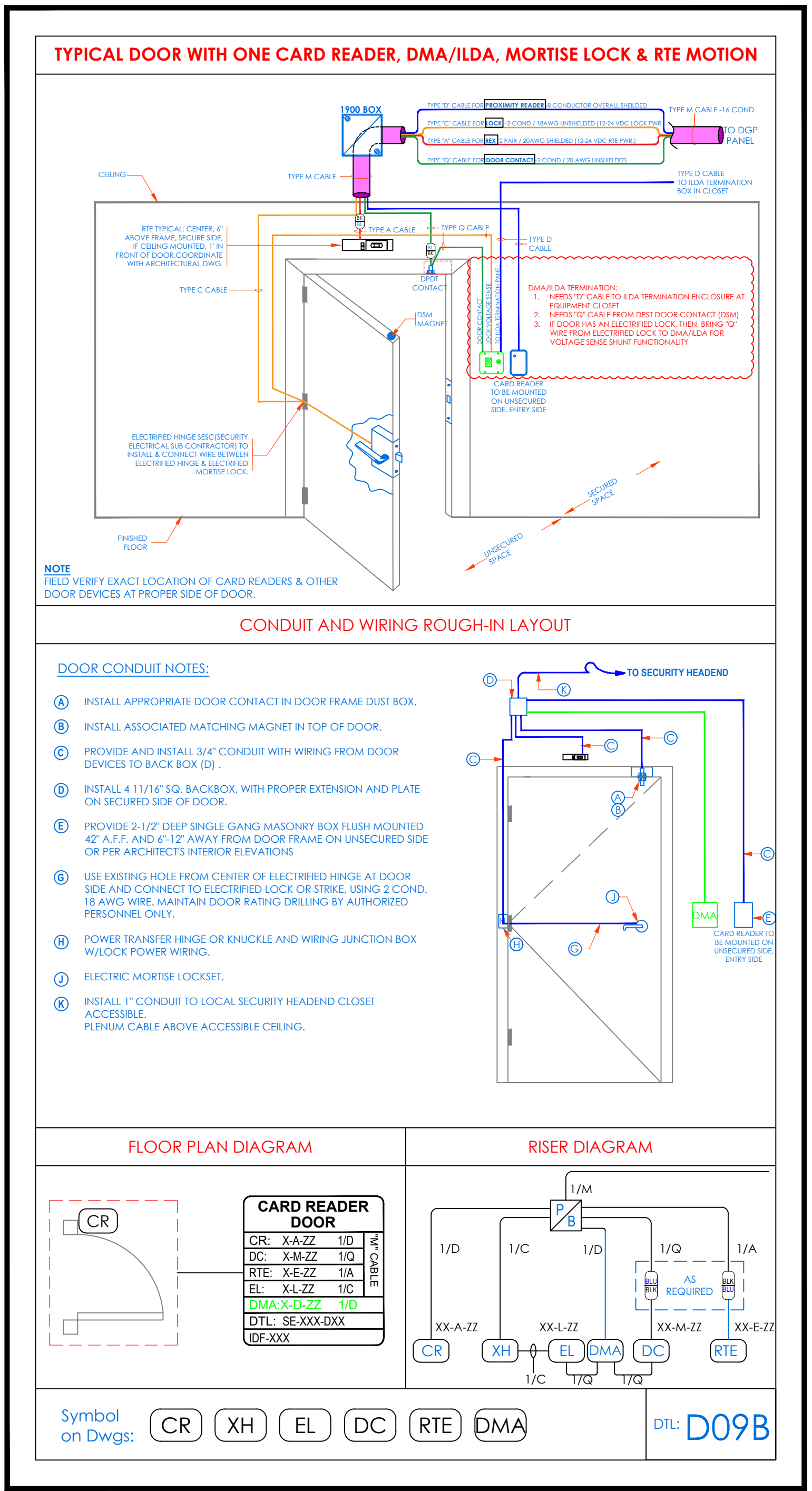
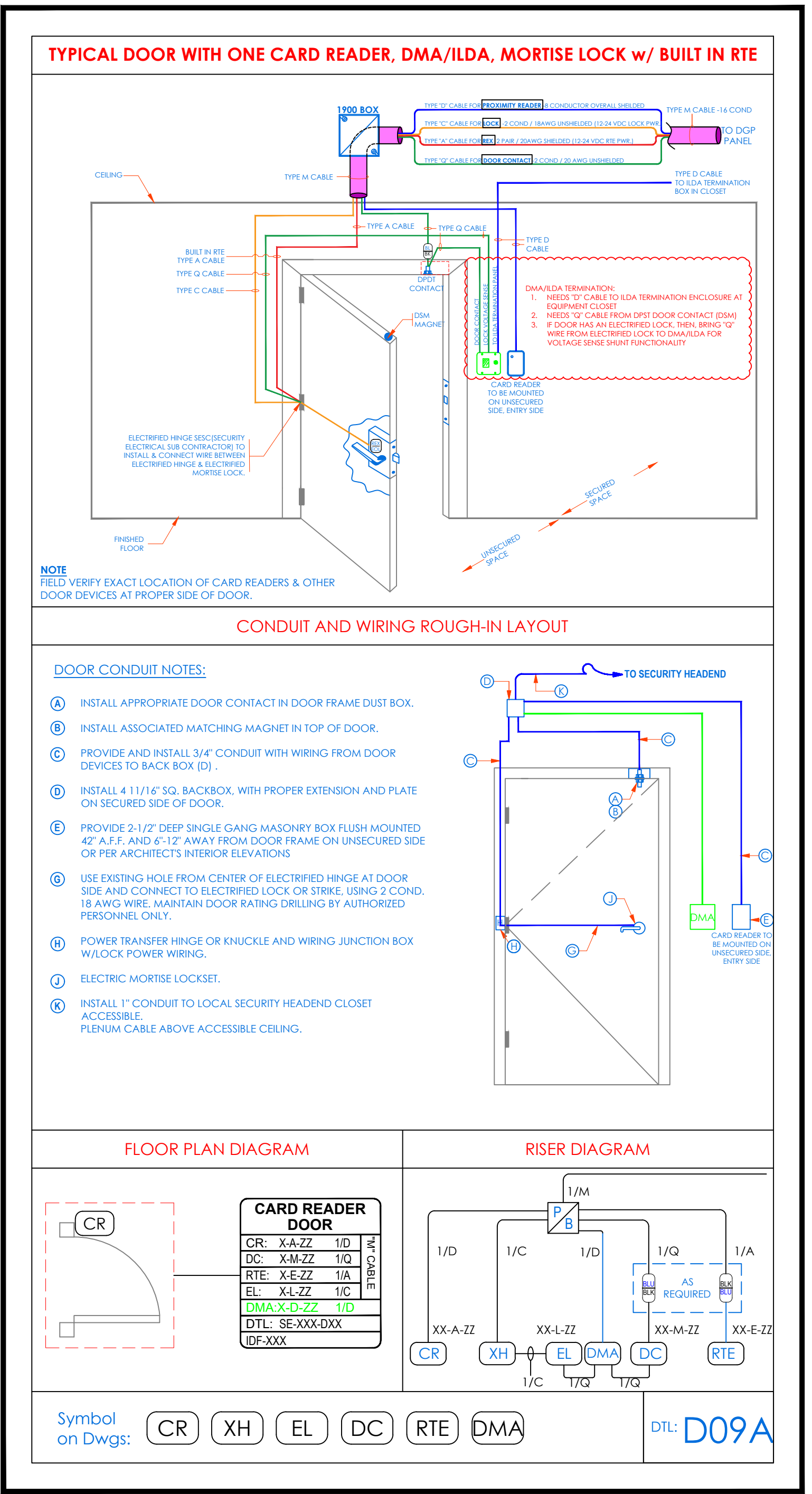
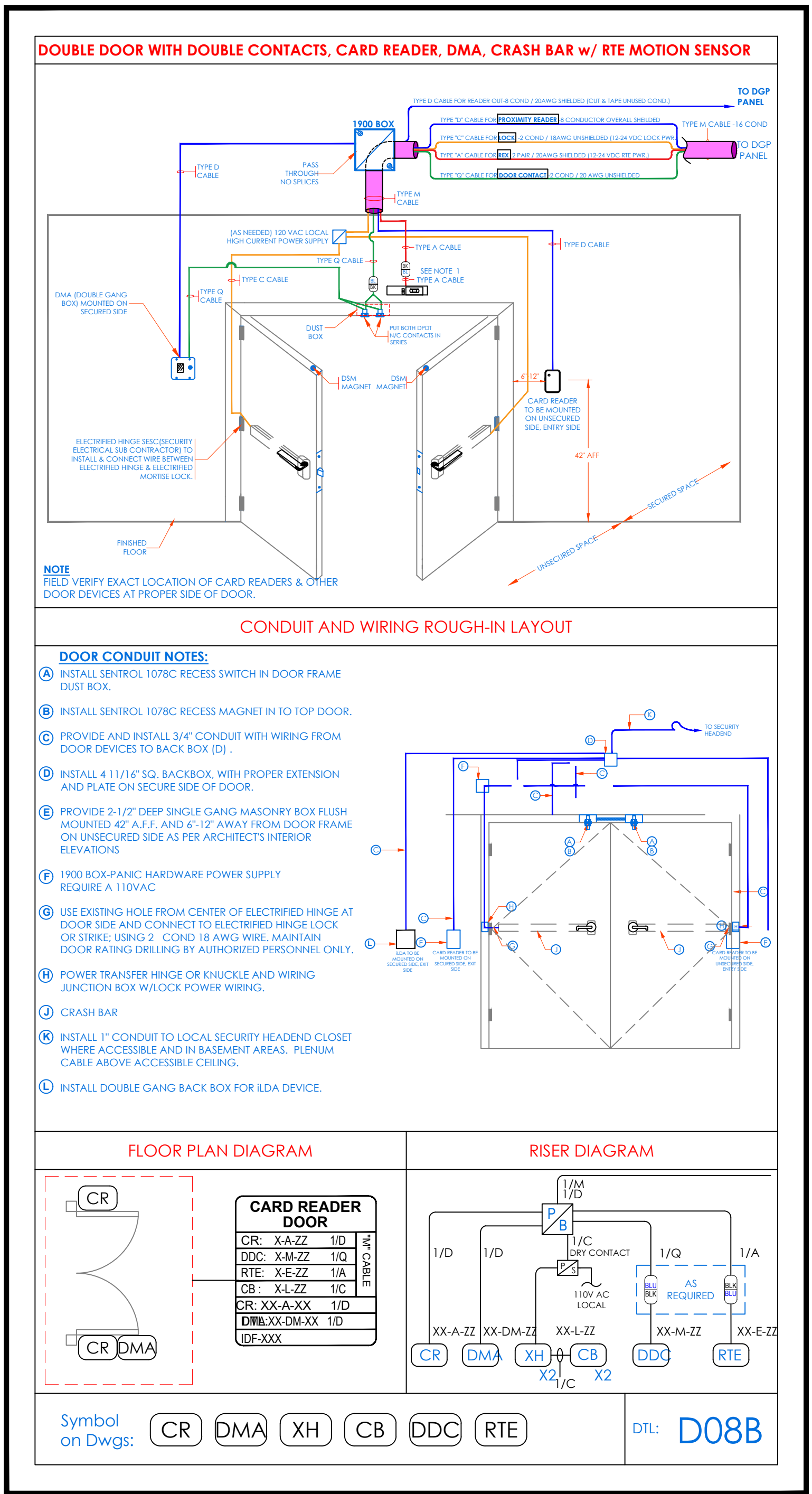
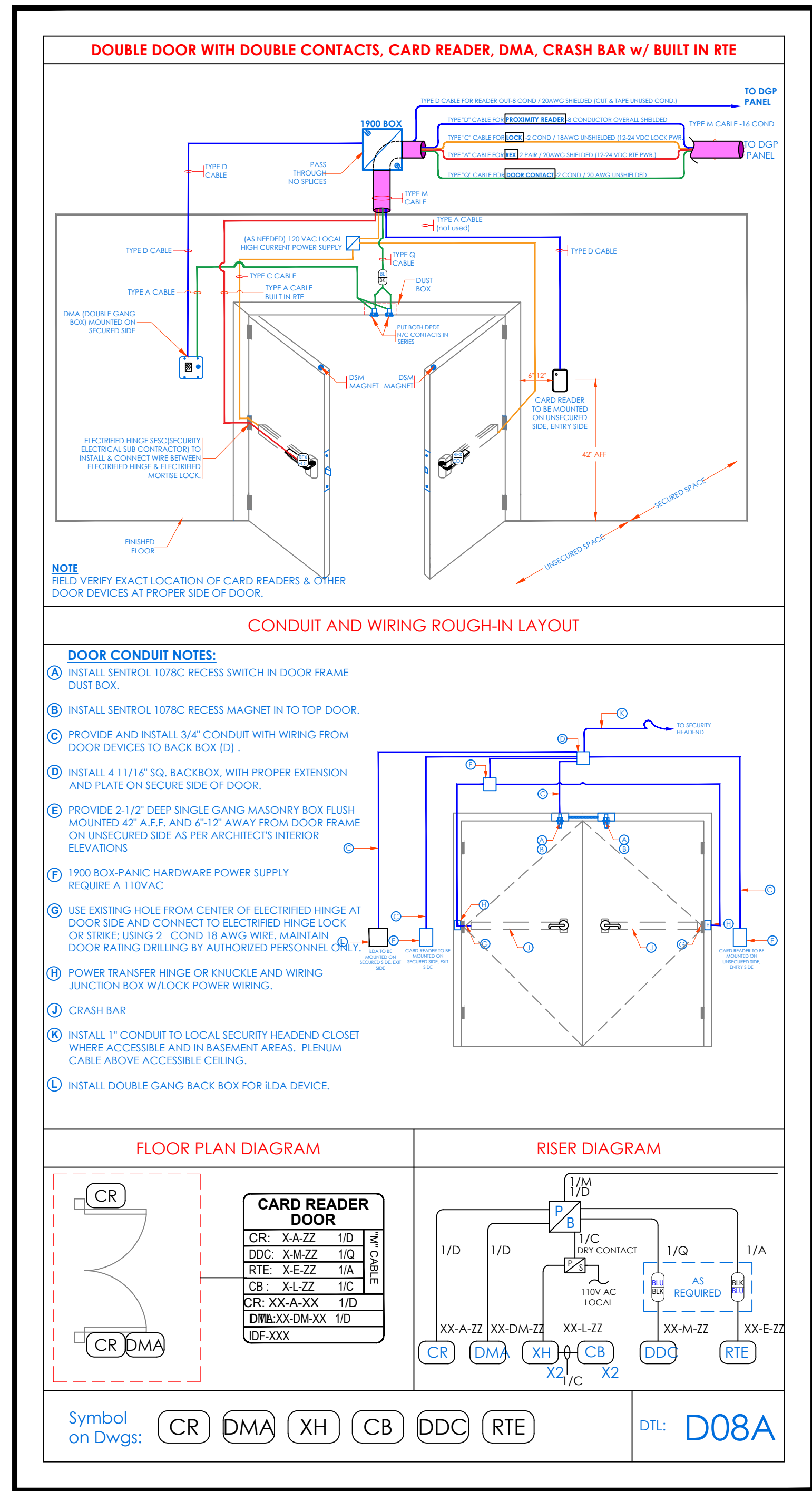
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PROJECT:
Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

TITLE:

SECURITY EQUIPMENT DETAIL 1
DOOR 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:	SE-703
XXXXXX		



- 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 DRAWINGS SET AND SPECIFICATIONS, VERIFY ACTUAL FIELD CONDITIONS AND DELIVER A TURN KEY SOLUTION TO COVER.
 3. CONTRACTOR TO VERIFY CAMERA'S FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF THE 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 VERIFY 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" SET HARD COPY (PDF) 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
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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	



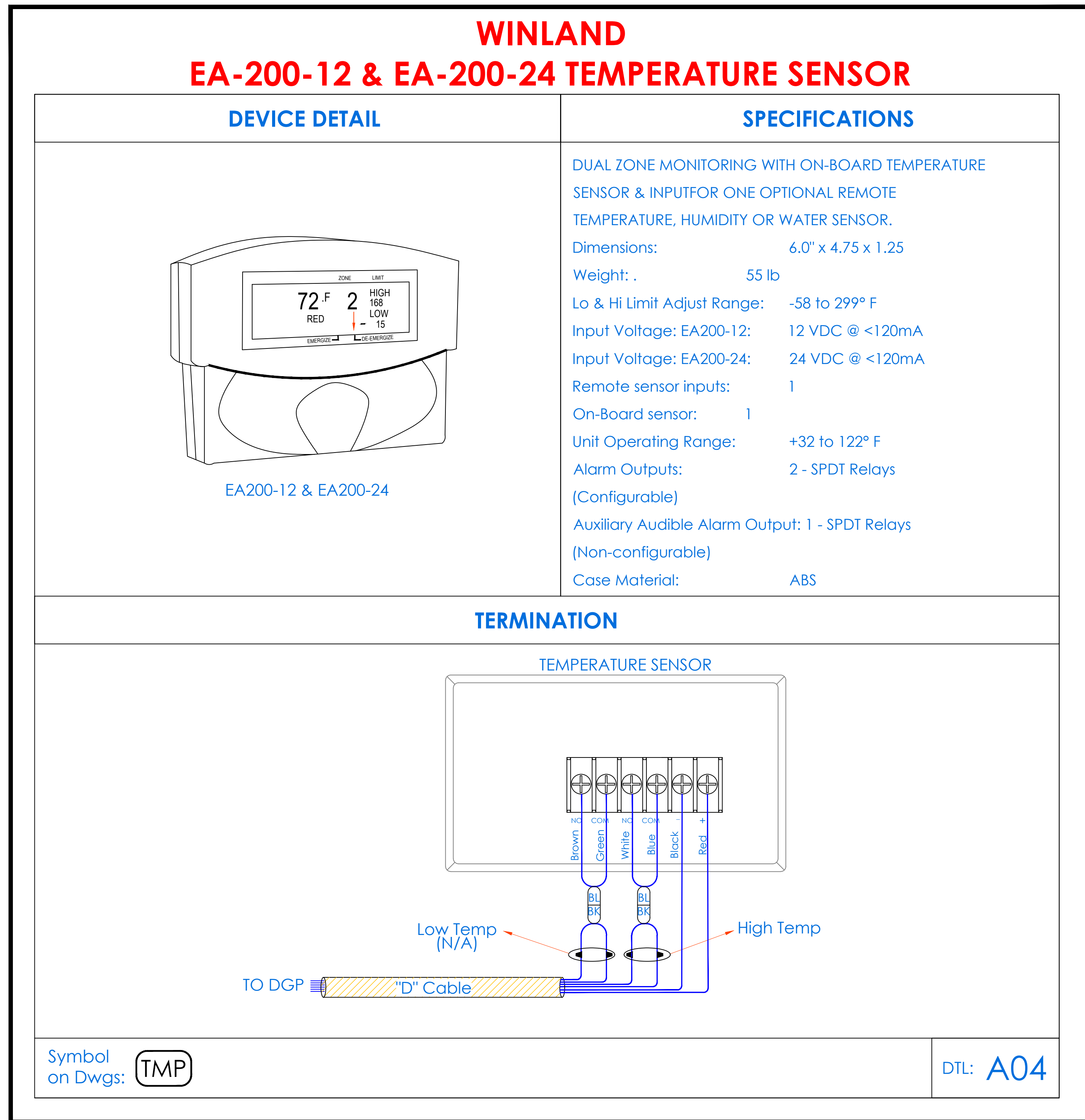
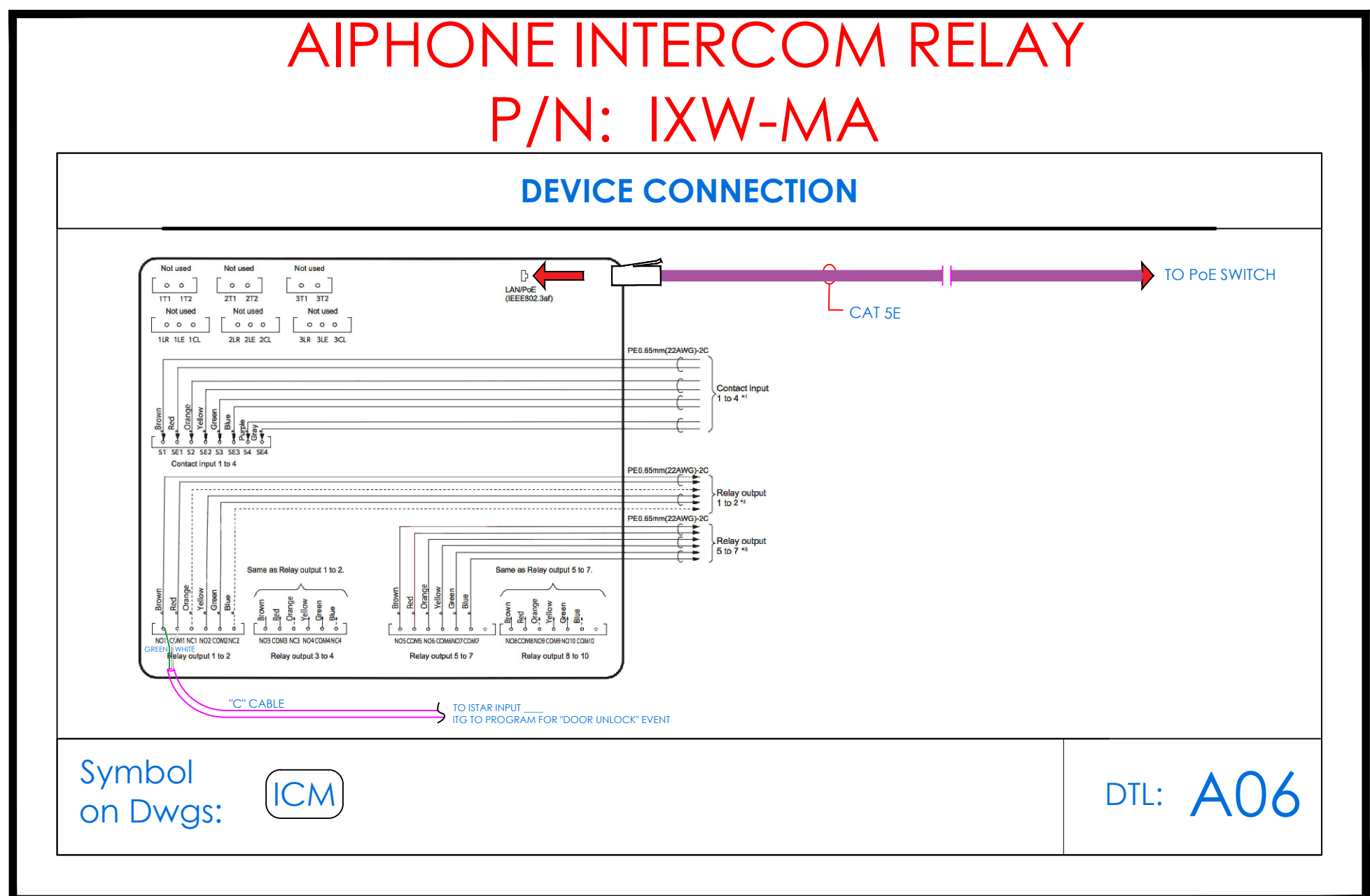
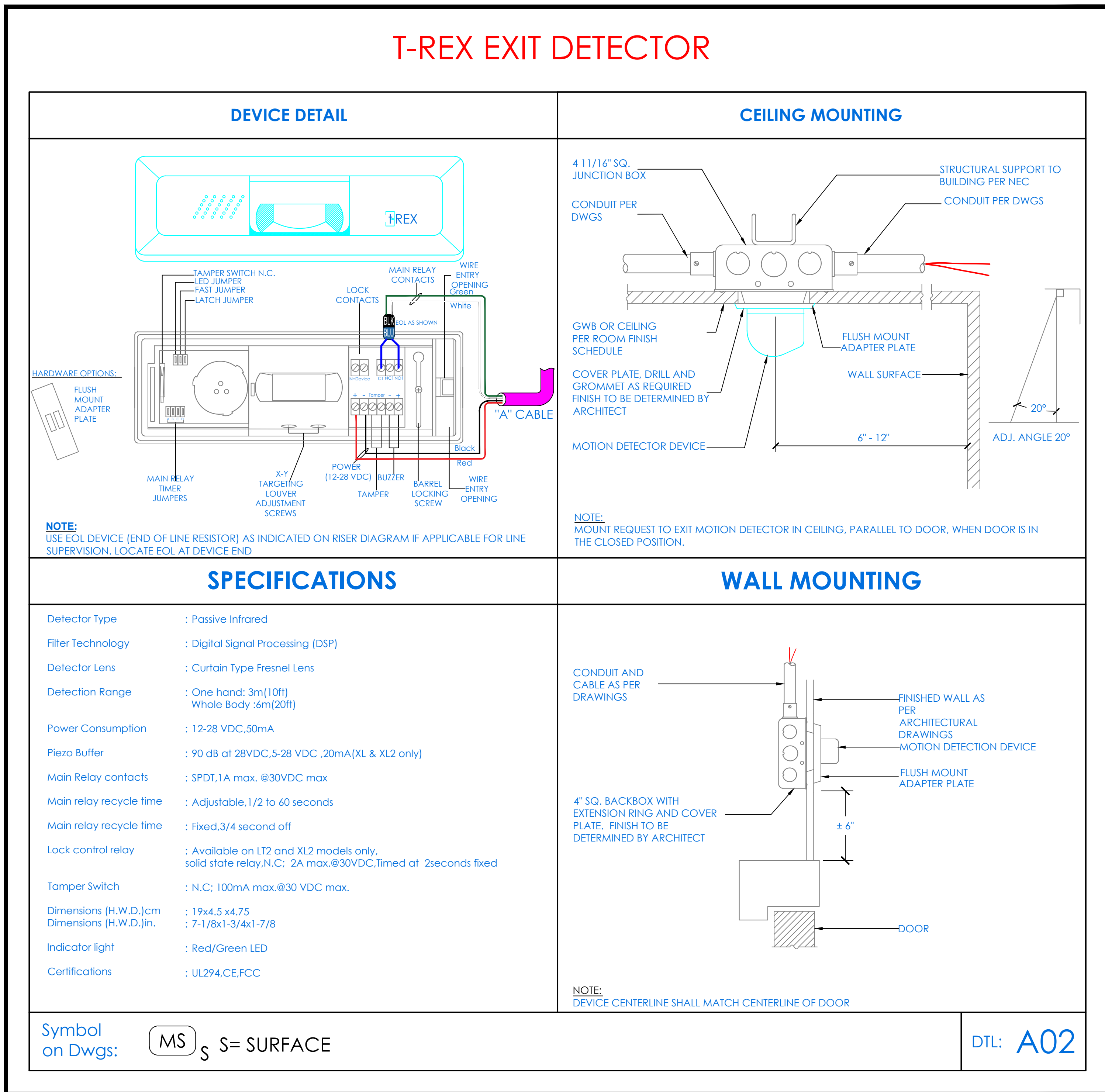
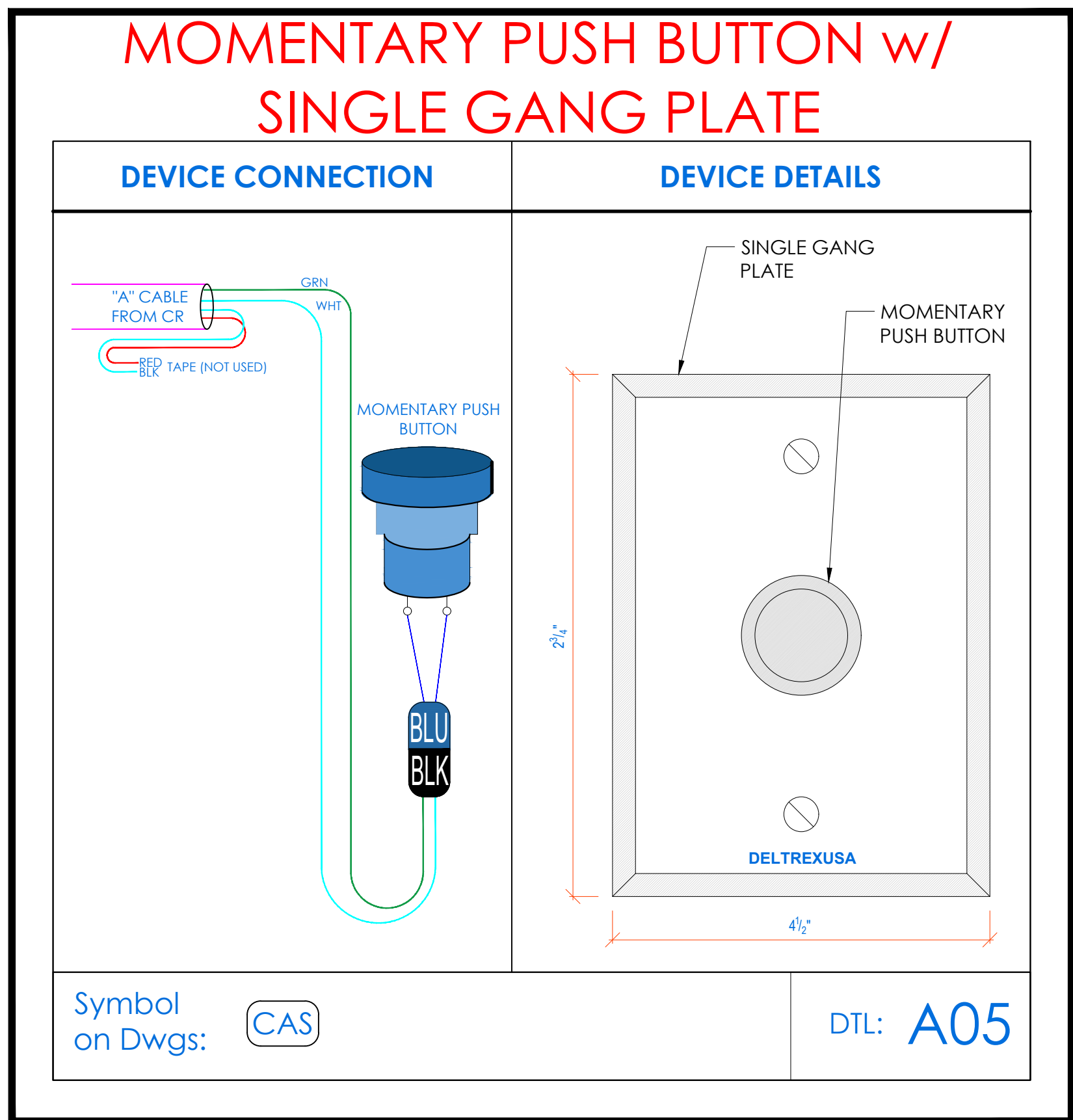
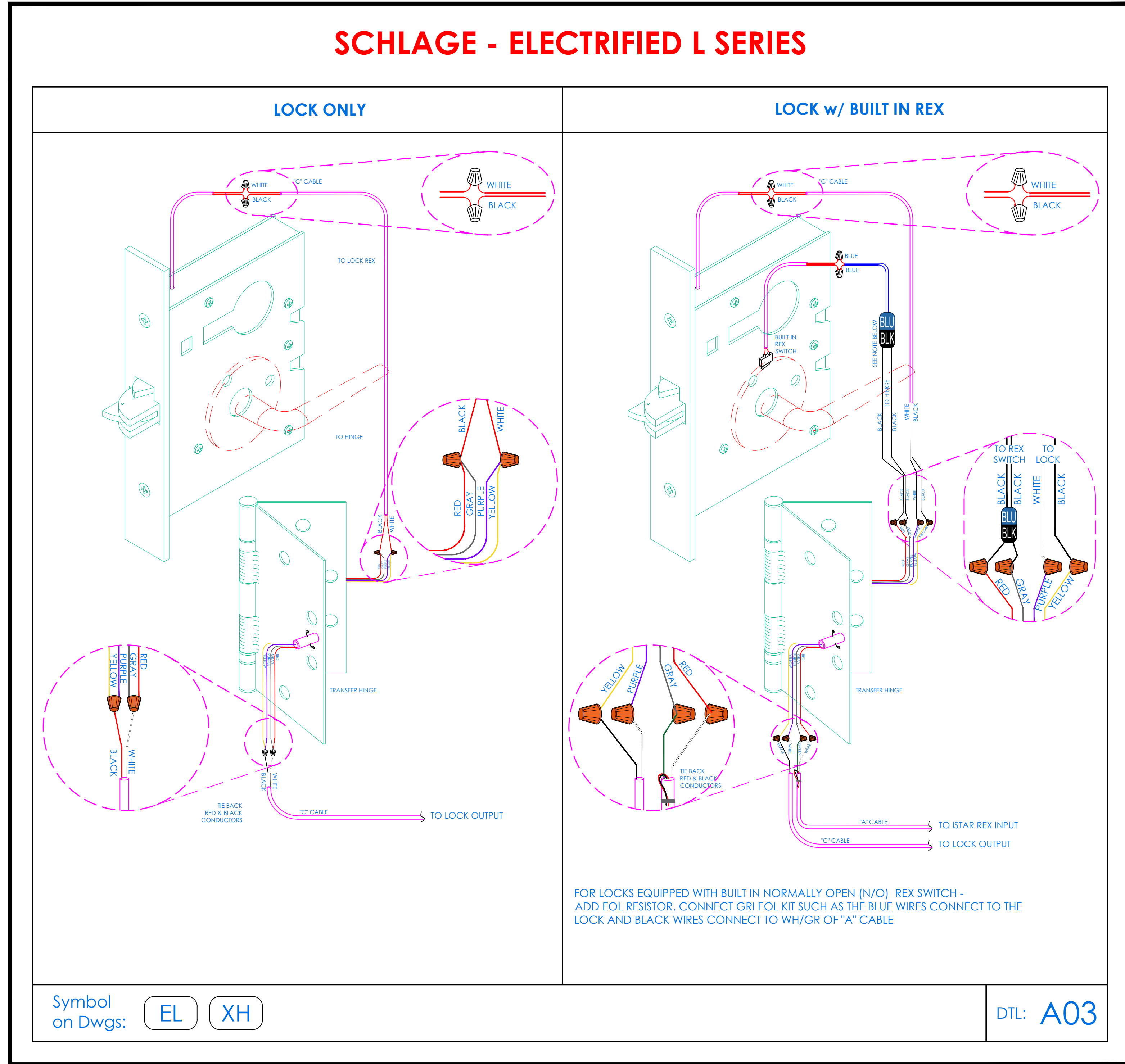
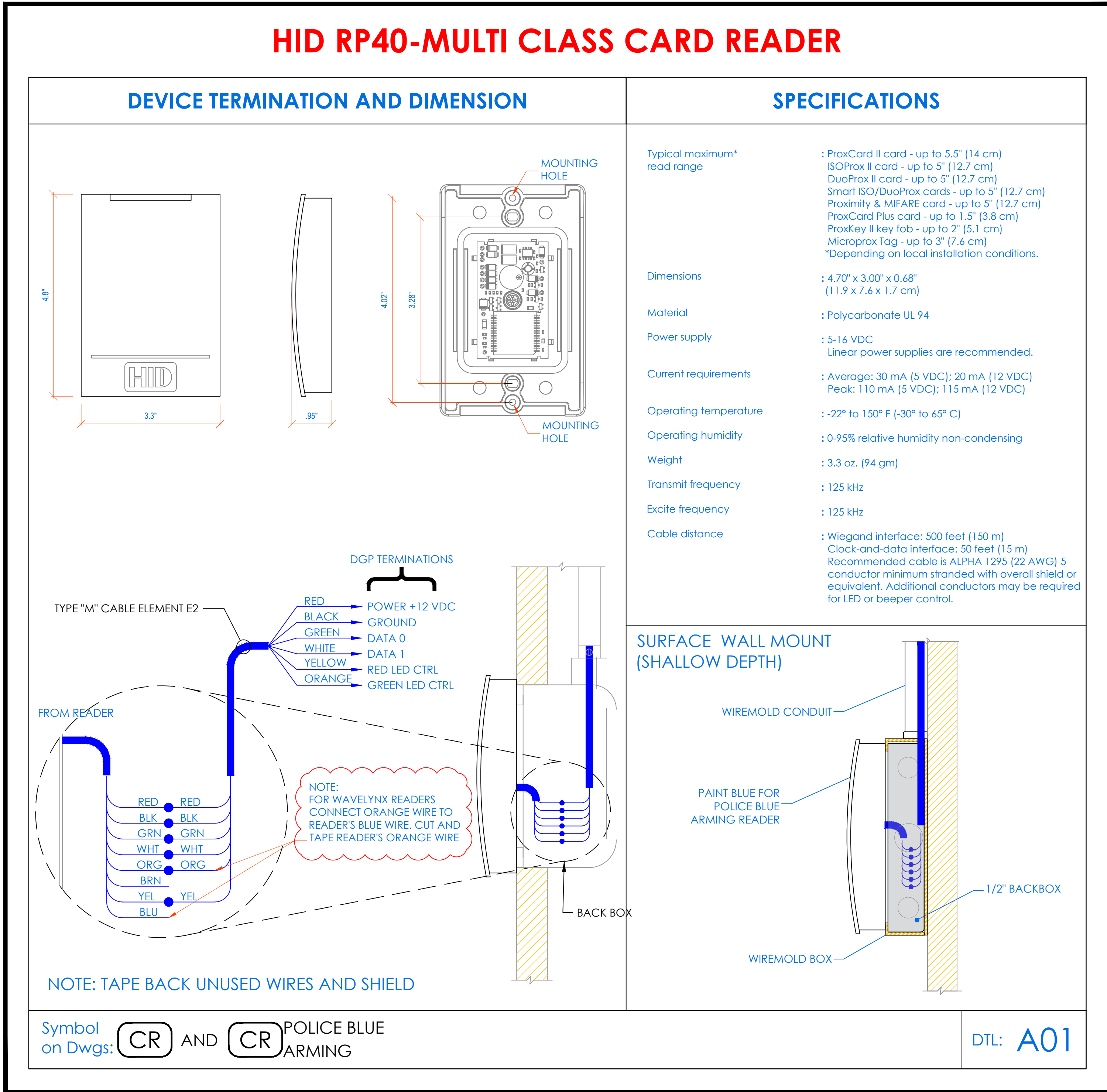
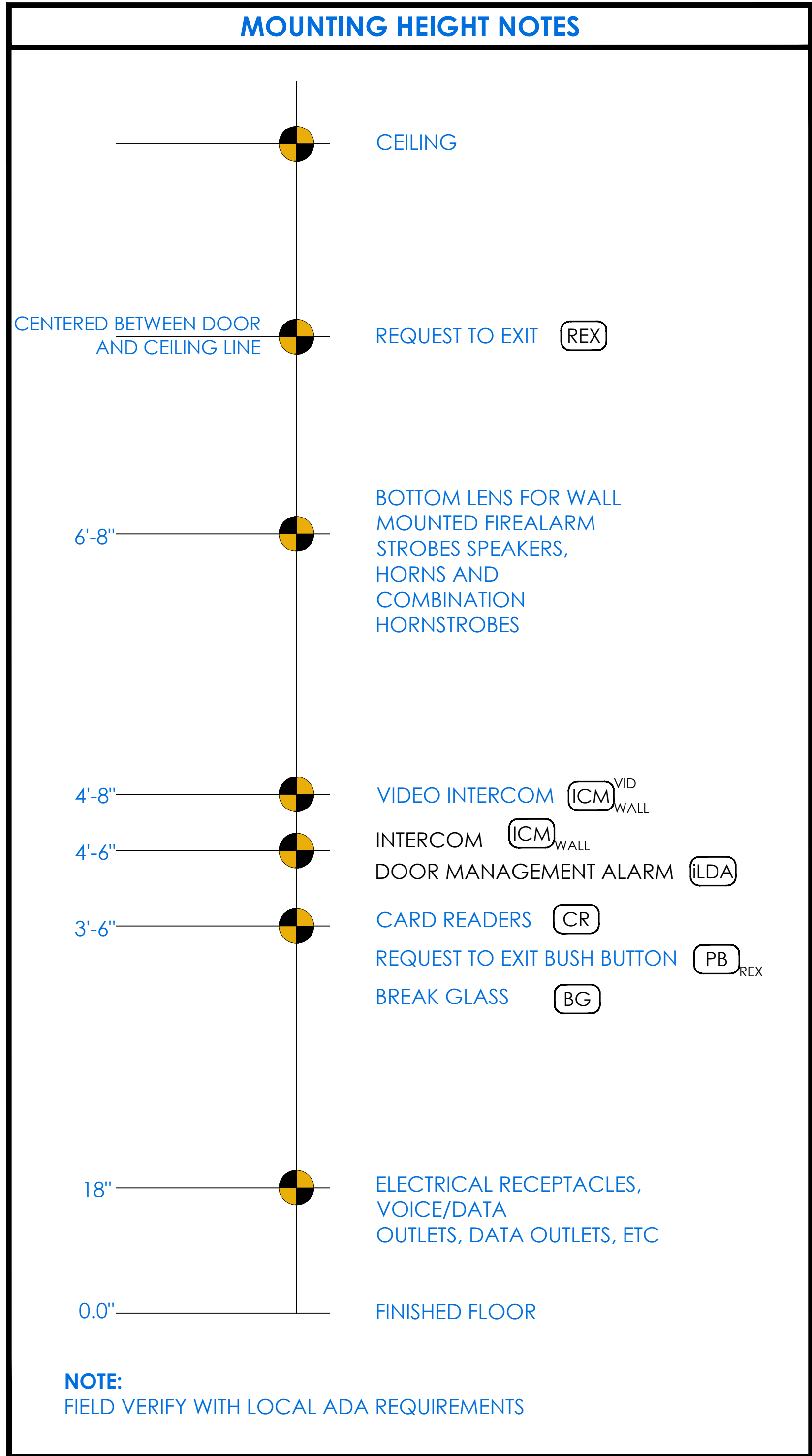
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PROJECT:
Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

TITLE:

SECURITY EQUIPMENT DETAIL 1A
DOOR TYPICALS

I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO:	DATE: 11/27/2019	
XXXXXX	SCALE: N.T.S.	
S.A. NO:	DRAWING NO:	
XXXXXX	SE-703A	



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 3. CONTRACTOR TO VERIFY CAMERAS FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF RISK 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 BOUND "AS BUILT" SET IN BOTH "D" SIZE 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.

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2/19/2019	REVIEWED & REVISED-ISSUED FOR APPROVAL
7/15/2019	REVISED
9/26/2019	ISSUED FOR BID
10/26/2019	REVISED-ISSUED FOR BID
11/15/2020	REVISED-ISSUED FOR BID

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

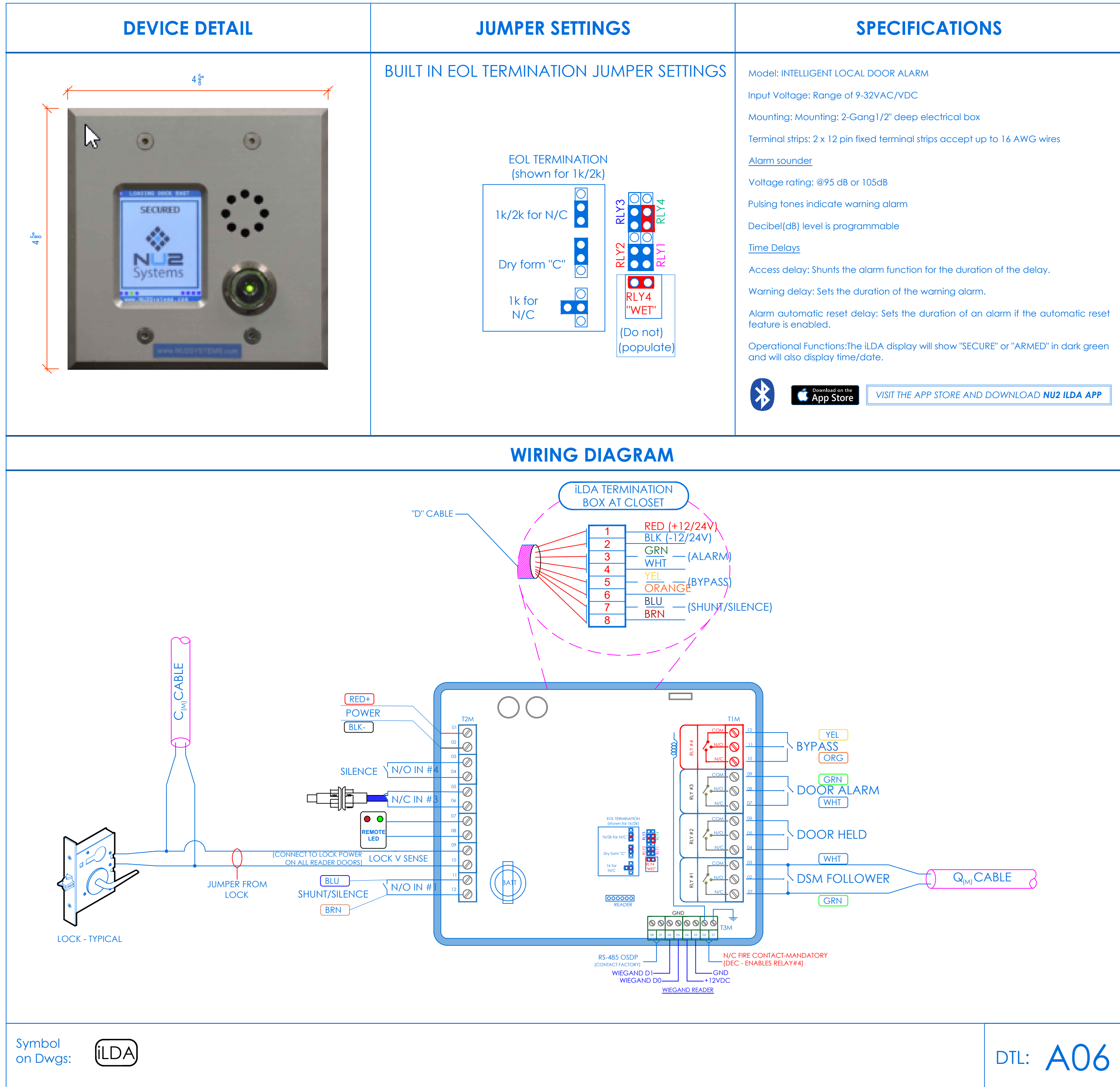
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PROJECT:

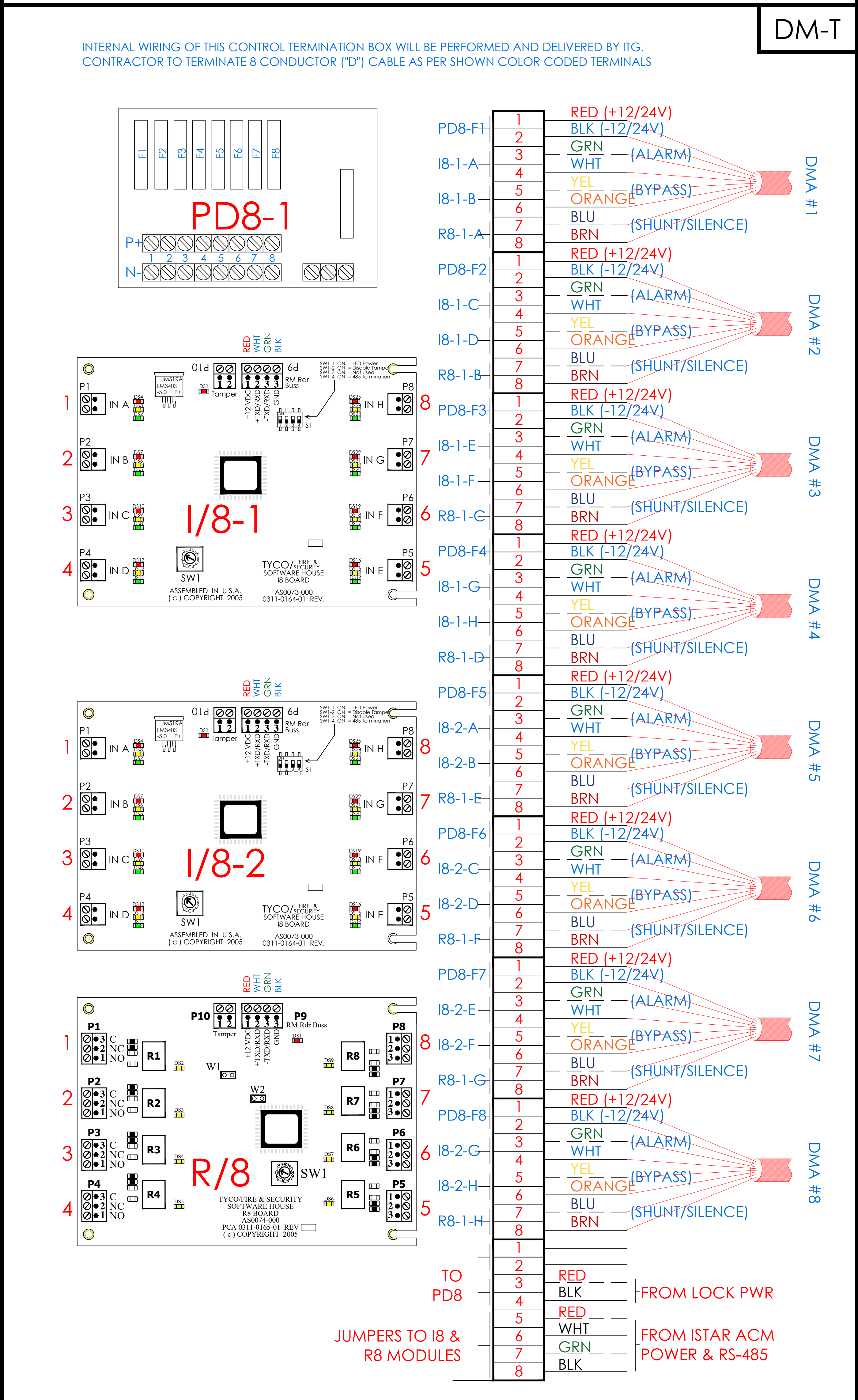
Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

SECURITY EQUIPMENT DETAIL 2 ACCESS DEVICE TYPICALS		
I.T.	C.A.	E.M.
DESIGNED BY	DRAWN BY	CHECKED BY
WORK ORDER NO.	DATE	1/27/2019
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	

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 3. CONTRACTOR TO VERIFY CAMERA'S FIELD OF VIEW AND ADJUST AS NEEDED TO THE SATISFACTION OF BOS SECURITY MANAGER.
 4. PRIOR TO PULLING CAT4 WIRE, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
 5. ALL CAT4 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 "PDF" AND "DWG" FORMAT.
 8. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. ITS ROLE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

ISSUED FOR:	
DATE	COMMENTS
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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:

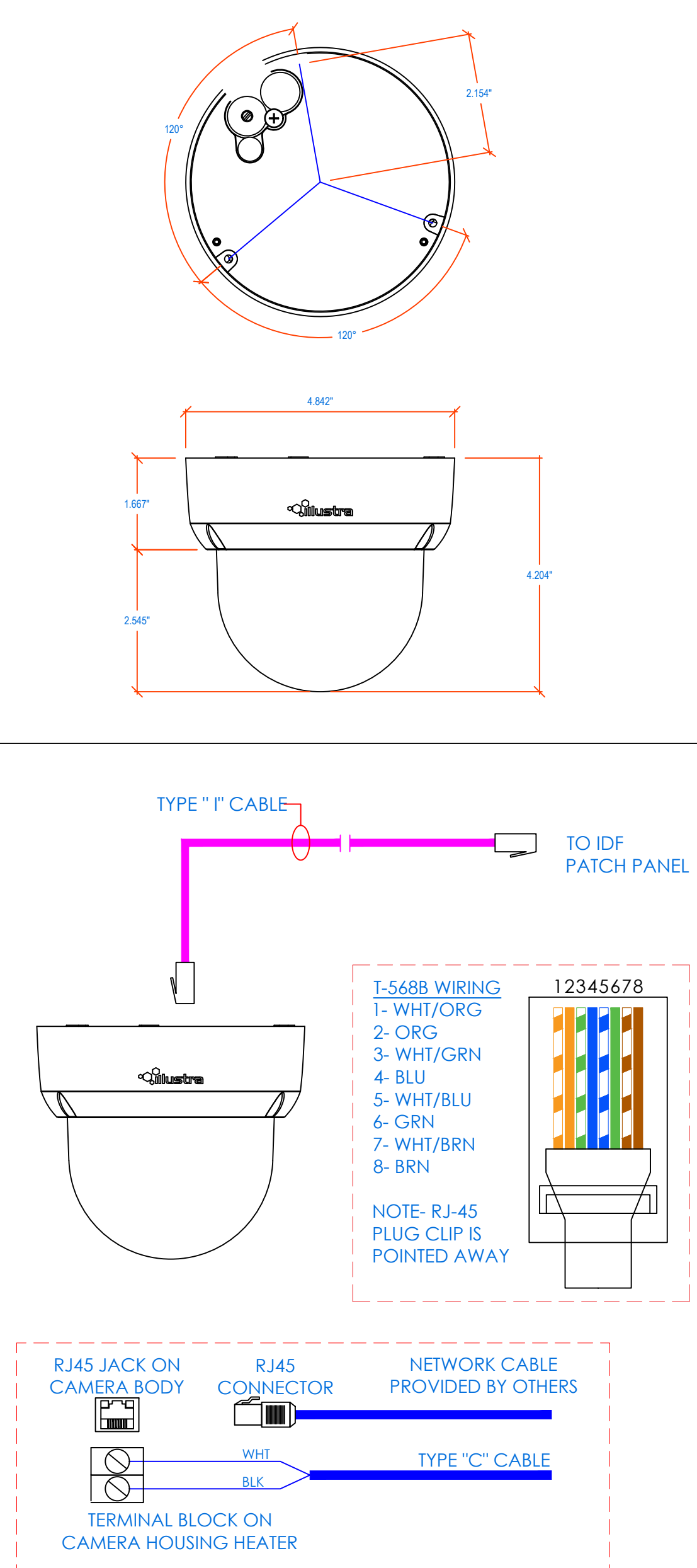
Yonkers Public School 16

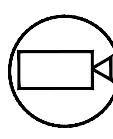
759 N. BROADWAY
YONKERS, NY 10701

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	

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

DEVICE DETAIL & WIRING



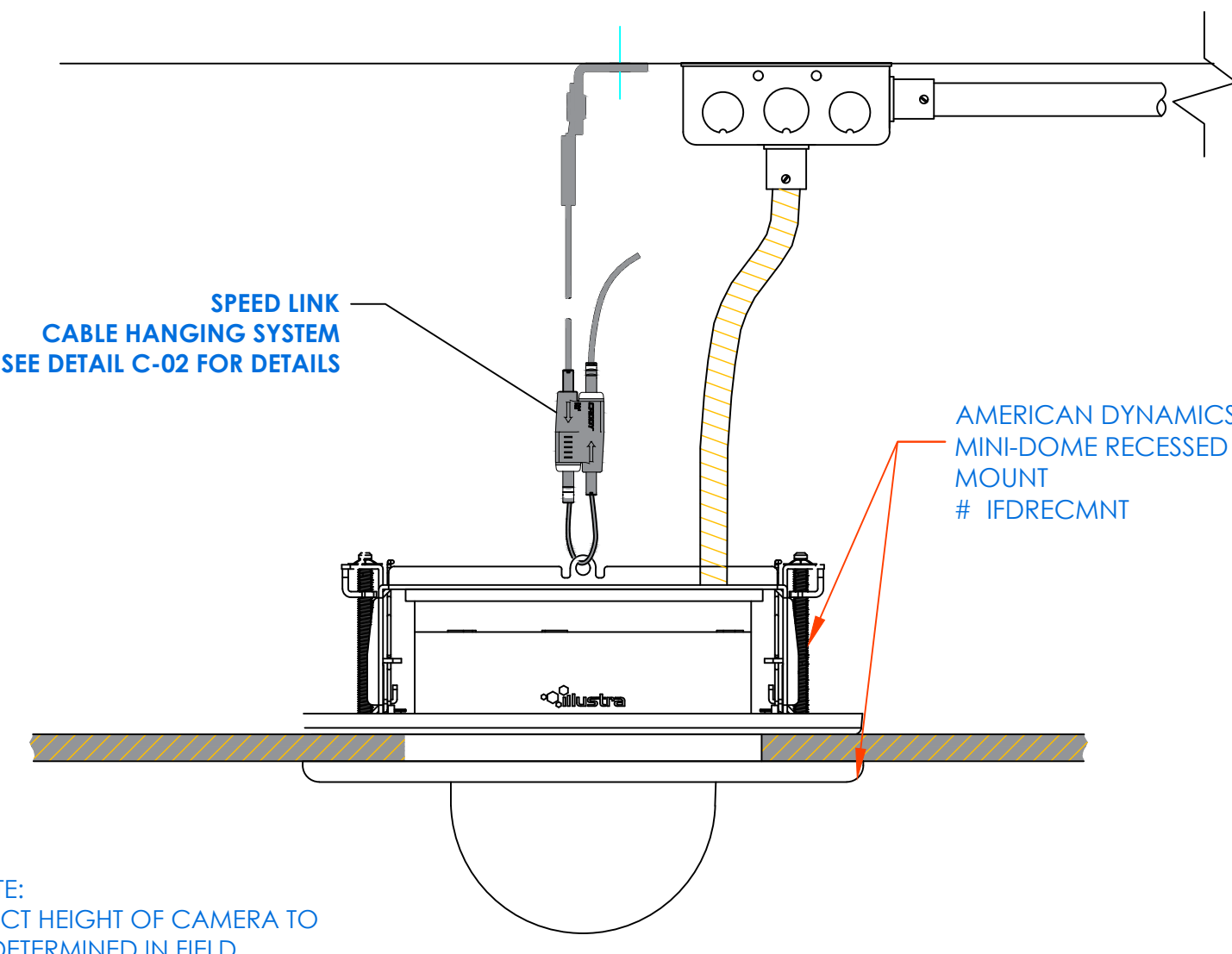
Symbol on Dwgs: 

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 Resolution	Yes	
Resolution	3840x2160 (4K) 16:9 3264x1840 16:9 2592x1544 4:3 2688x1520 16:9 2048x1536 (QXGA) 4:3 1920x1080 (1080p) 16:9	1280x960 (SXGA-) 4:3 1280x720 (720p) 16:9 800x600 (VGA) 4:3 640x480 (480VGA) 4:3 640x360 (nHD) 16:9
Imager	1/2.5"	
Day/Night	True D/N with ICR	
TrickleStar	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	
Color	0.03 Lux	
IR W	0.0003 Lux	
Field of View (H/V)	Wide Angle	
Telephoto	42°/24°	
Lens Type	Motorized Varifocal and Focus, F-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	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, SFTP, UPnP, RTSP, LLDP	
Configuration Management	Web Browser	
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	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)	2.14lbs (0.97kg)
Weight	2.05lbs (0.93kg)	White
Housing Color	White	58°F to 122°F (-20°C to 50°C)
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 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/REEE	

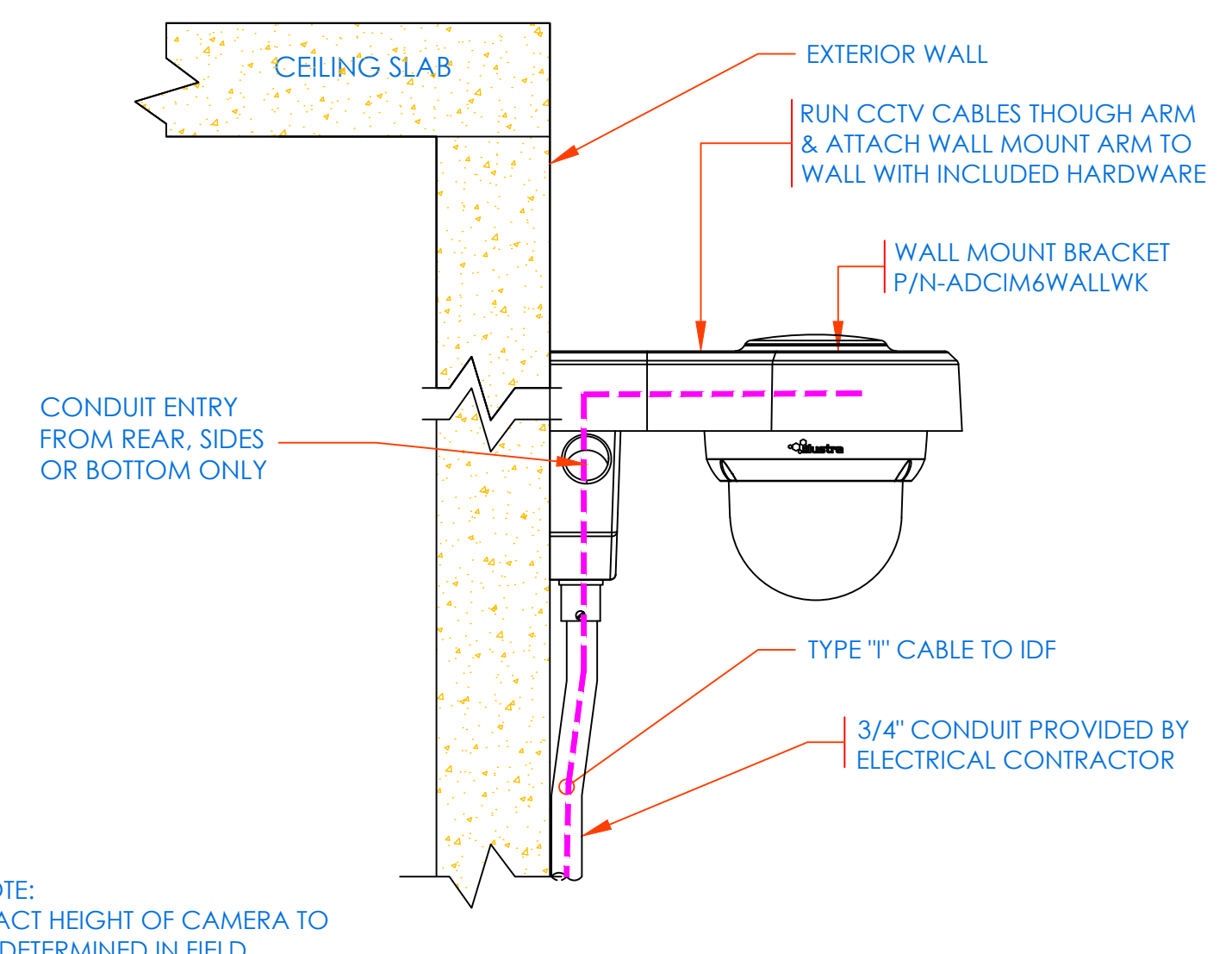
*Extended temperature limited to cameras installed in indirect sunlight

CEILING MOUNTING DETAIL



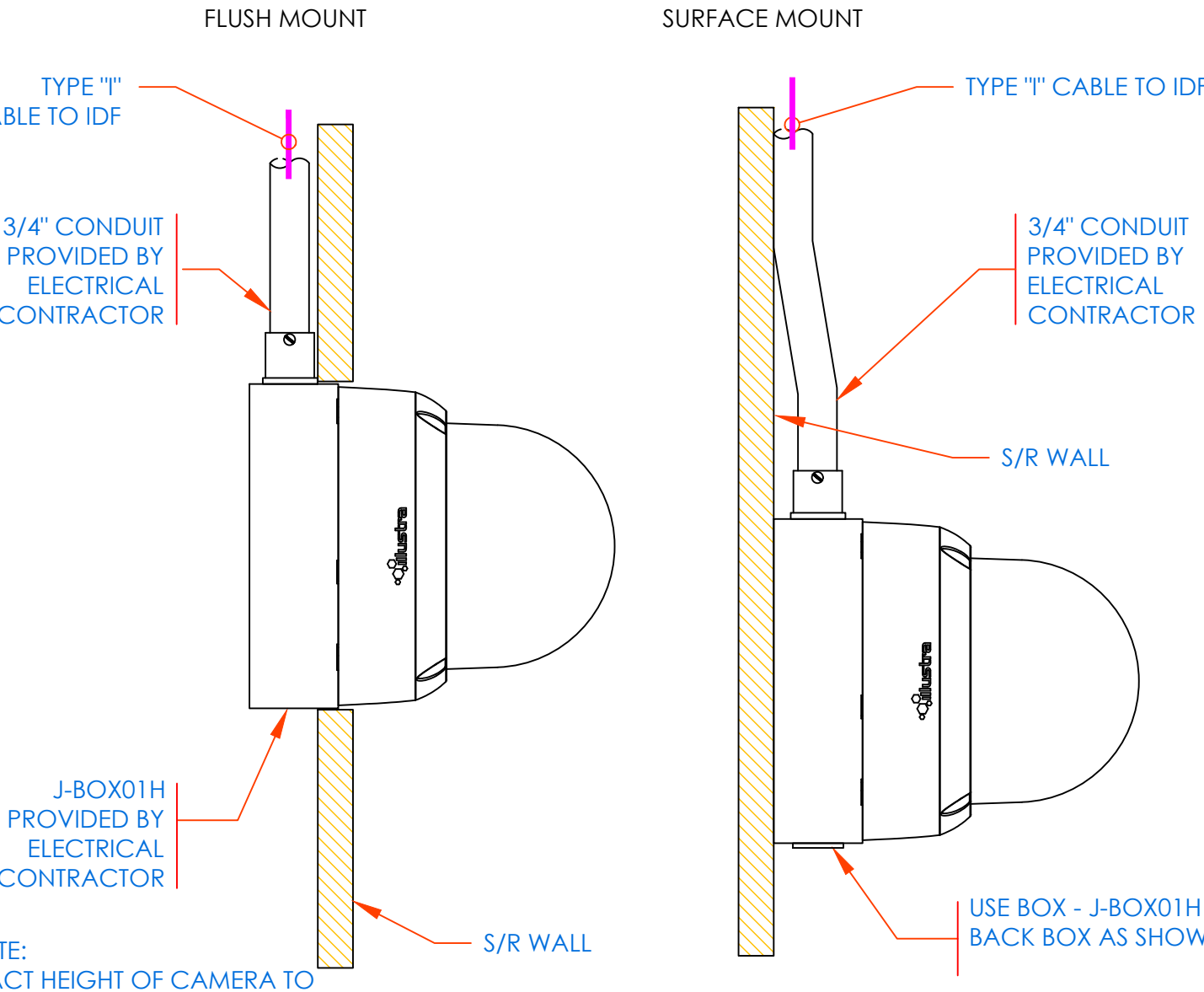
NOTE: EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

OUTDOOR WALL SURFACE MOUNT DETAIL



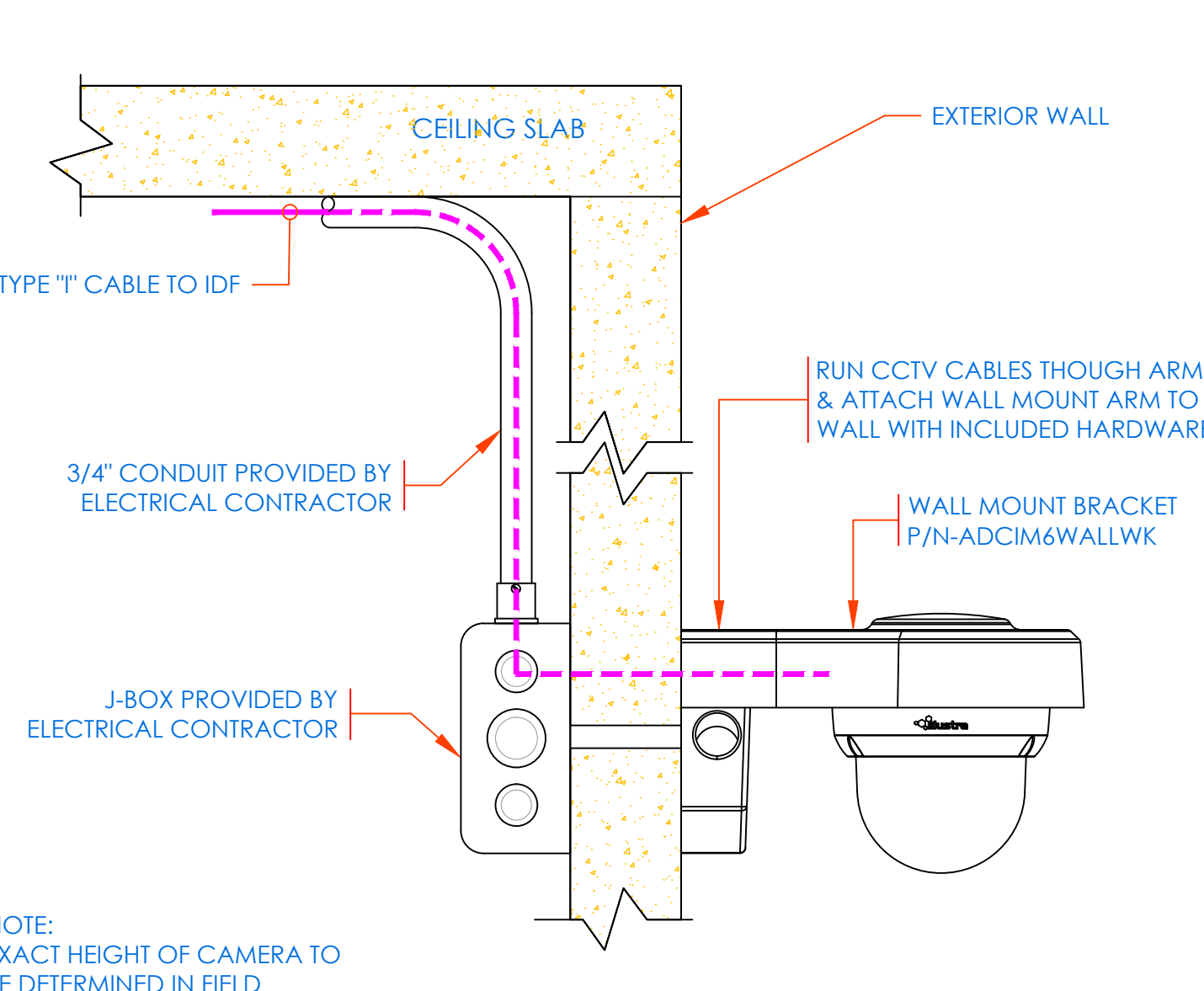
NOTE: EXACT HEIGHT OF CAMERA TO BE DETERMINED IN FIELD

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

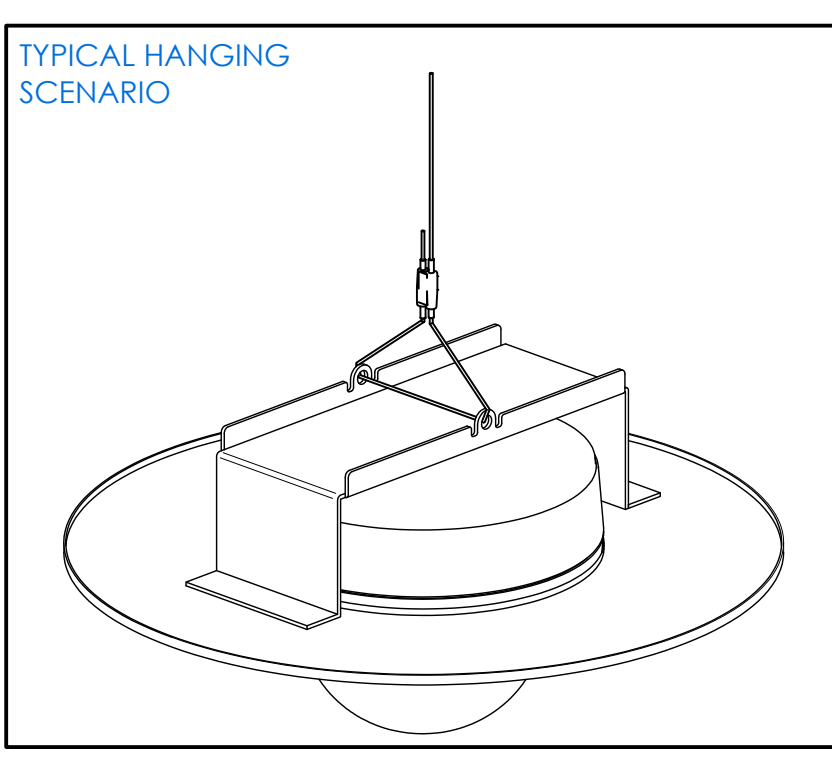
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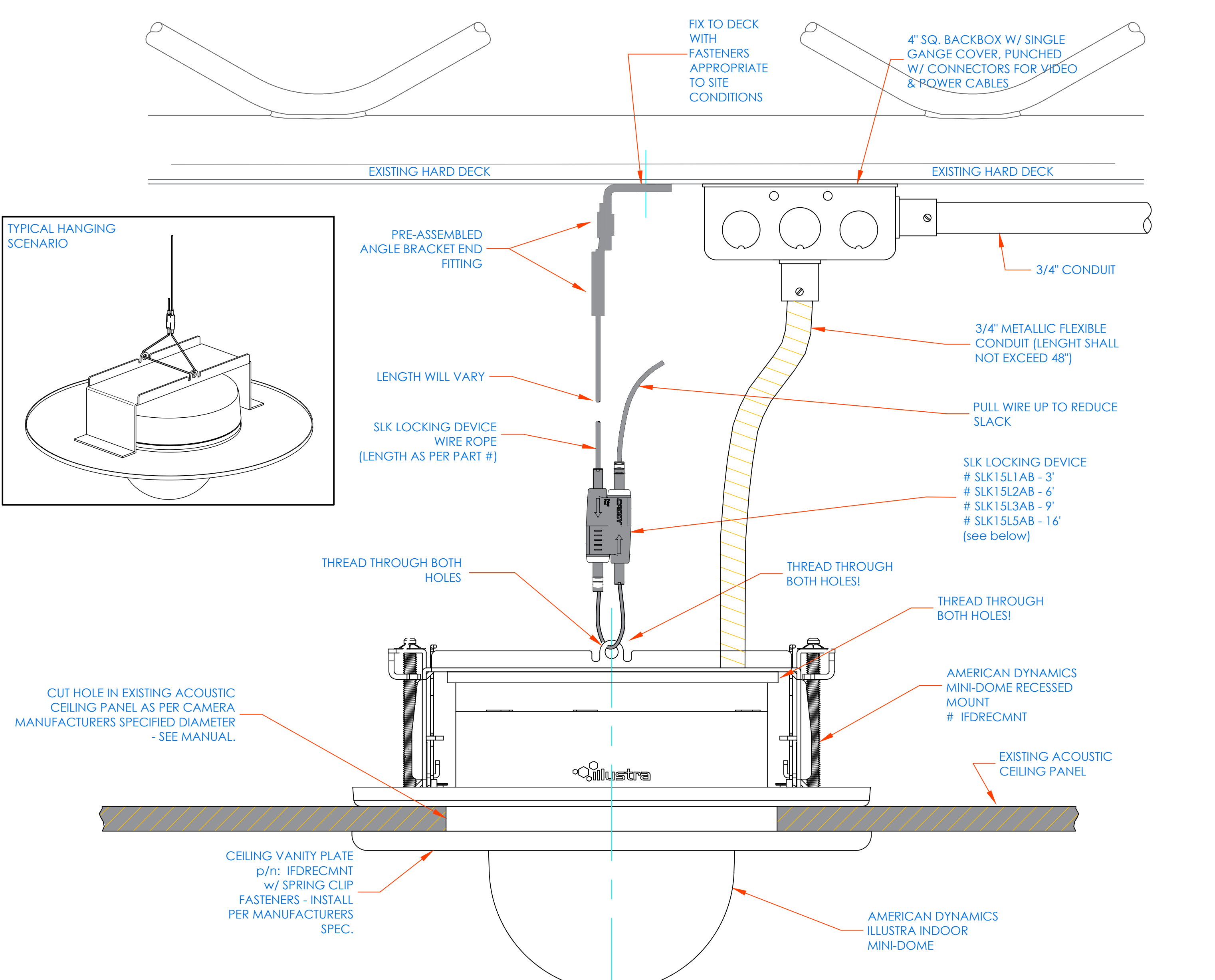
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4. PRIOR TO PULLING CABLES, CONTRACTOR TO VERIFY CABLE LENGTH DOES NOT TO EXCEED 300' WHEN BROUGHT TO CLOSEST CLOSET.
5. ALL CAT-6 CABLES TO BE TESTED AND CERTIFIED AS PER BID DOCUMENT.
6. CONTRACTOR TO MARK ANY DEVIATIONS FROM THE PROVIDED RISE AND NOTE ON THE "AS BUILT" CONTRACTOR TO PRODUCE AND DELIVER A BOUND "AS BUILT" SET IN BOTH PDF AND HARD COPY (2 SETS) AND A CD WITH .PDF FORMAT.
7. CONTRACTOR IS RESPONSIBLE FOR SYSTEM COMMISSIONING. RISE RISE IS LIMITED TO SYSTEM PROGRAMMING ONLY.

nVent CADDY
SPEED LINK SLK WITH ANGLE BRACKET

TYPICAL HANGING SCENARIO





FIX TO DECK WITH FASTENERS APPROPRIATE TO SITE CONDITIONS

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

EXISTING HARD DECK

PRE-ASSEMBLED ANGLE BRACKET END FITTING

3/4" CONDUIT

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

PULL WIRE UP TO REDUCE SLACK

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

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

THREAD THROUGH BOTH HOLES

THREAD THROUGH BOTH HOLES!

THREAD THROUGH BOTH HOLES!

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

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

AMERICAN DYNAMICS MINI-DOME RECESSED MOUNT # IFDRECMNT

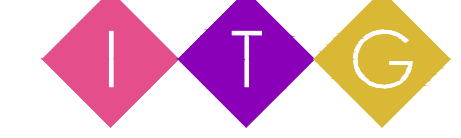
EXISTING ACOUSTIC CEILING PANEL

AMERICAN DYNAMICS ILLUSTRATE INDOOR MINI-DOME

Part Number	Wire Rope Length	A	Hole Size HS	Height H	Width W	Thickness T	Angle a	Static Load F	Certifications
SLK1SL1AB	3.3'	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
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
Yonkers Public School 16
759 N. BROADWAY
YONKERS, NY 10701

TITLE
SECURITY EQUIPMENT DETAIL 5
CCTV TYPICALS

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