

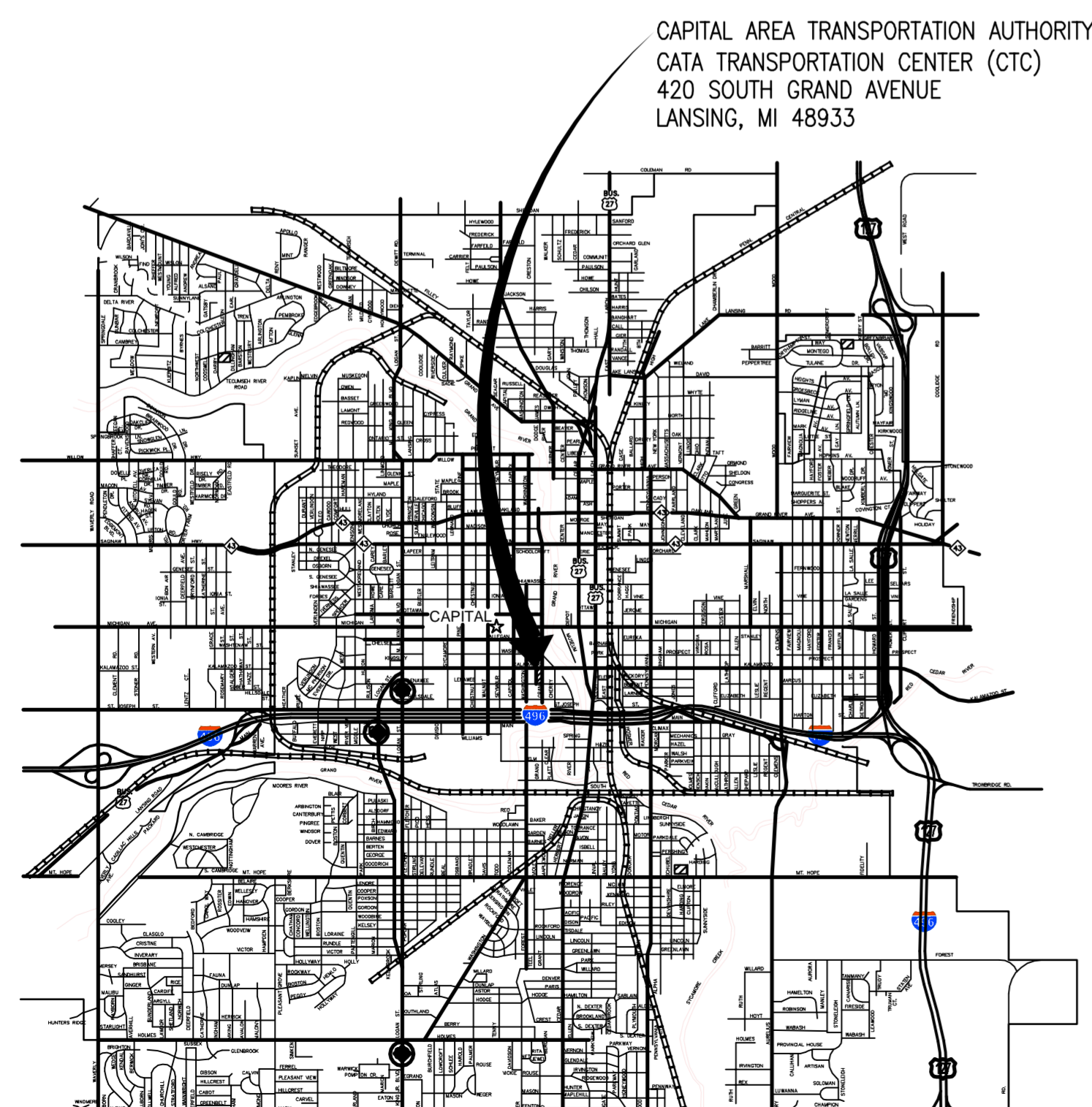


CAPITAL AREA TRANSPORTATION AUTHORITY CTC CONTROLS UPGRADES

4615 TRANTER STREET
LANSING, MICHIGAN 48910

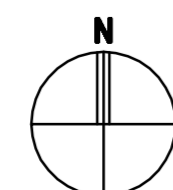
INVITATION TO BID (ITB) #
DLZ NO. 0941-6302-00

BID SET DATED: JUNE 27, 2012



LOCATION MAP

SCALE: N.T.S.



GENERAL NOTES

- A. CONTRACTOR IS ENCOURAGED TO VISIT THE BUILDING PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS TO BE REMOVED, ALTERED, OR PROTECTED.
- B. ADJACENT EXISTING AREAS TO REMAIN WHICH ARE DAMAGED OR DESTROYED AS A RESULT OF CONTRACTOR ACTIVITIES SHALL BE REPAIRED OR REPLACED TO MATCH EXISTING CONDITION.
- C. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING, UTILITY AND ASSOCIATED FEES/COSTS FOR THE ENTIRE PROJECT.
- D. COORDINATION: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND COORDINATE ALL THE DRAWINGS BEFORE FABRICATION AND/OR INSTALLATION OF ANY WORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR ERRORS FOR ARCHITECT TO RESOLVE PRIOR TO COMMENCING WORK.
- E. FIELD VERIFICATION: PRIOR TO SCHEDULING OF WORK AND COMMENCING CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN.
- F. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURES AND THE SEQUENCING OF WORK TO ENSURE THE SAFETY OF THE BUILDING AND ITS OCCUPANTS DURING CONSTRUCTION INCLUDING THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING OR TIE-DOWNS THAT MAY BE NECESSARY.
- G. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
- H. LEGEND: ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS ANY QUESTIONS REGARDING THEIR EXACT MEANING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY AND GET CLARIFICATION FROM THE ARCHITECT.
- I. EQUIPMENT SIZES AND INSTALLATION METHODS ARE MANUFACTURER SPECIFIC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EXACT DIMENSIONS AND INSTALLATION REQUIREMENTS OF EQUIPMENT PRIOR TO FABRICATION OR INSTALLATION.
- L. CONTRACTOR IS RESPONSIBLE FOR LIMITING/CONTAINING DUST/FUMES/OVERSPRAY/DEBRIS DURING CONSTRUCTION TO THE LIMITS OF THE PROPOSED IMPROVEMENTS AREA. ADJACENT AREAS TO WORK MUST REMAIN CLEAN AND UNDISTURBED.

INDEX OF DRAWINGS

SHEET	DESCRIPTION
	COVER SHEET
	MECHANICAL
M4.0	PARTIAL LOWER LEVEL PLAN - AREA 'B' REFERENCE PLANS
M4.1	PARTIAL LOWER LEVEL PLAN - AREA 'A' REFERENCE PLANS
M4.2	PARTIAL LOWER LEVEL PLAN - AREA 'B' REFERENCE PLANS
M4.3	PARTIAL LOWER LEVEL PLAN - AREA 'C' REFERENCE PLANS



VAV BOX SCHEDULE														
TAG	MODEL NUMBER		SYSTEM	AIRFLOW (CFM)				HEATING COIL						REMARKS
	MODEL TYPE			SA (MAX.)	VALVE MIN CFM	HEATING CFM	APD 'WG	EAT	LAT	BTUH	GPM	EWT	WTD	
VAV-1	DESV	X-RTU-3	150	45	N/A	NOTE 2	NO HEATING COIL						1	

NOTES:
 1. BASED ON TITUS
 2. THE TOTAL MAXIMUM AIR PRESSURE DROP ACROSS THE BOX SHALL NOT EXCEED 0.3"

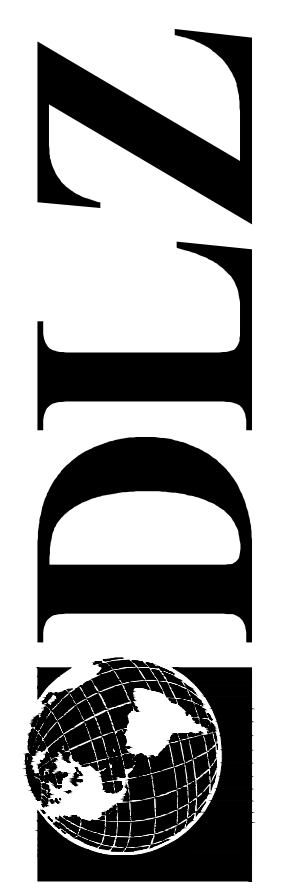
DIFFUSER, REGISTER, & GRILLE SCHEDULE										
TAG	MODEL	NECK SIZE	FACE SIZE	CFM RANGE (MIN-MAX)	PATTERN	MOUNT	MATERIAL	COLOR	100 FPM THROW	REMARKS
SD-1	TMS	8"	24x24	140-245	3 CONE / 4-WAY	LAY-IN	STEEL	OFF WHITE	5'	1,2,3
RG-1	50F	24x8	24x8	650	1/2x1/2x 1/2 GRID	LAY-IN	ALUMINUM	OFF WHITE	-	1,2,3

BASED ON: TITUS
 NOTES:
 1- MAX. NC = 30
 2- MAX. APD = 0.10 INCHES
 3- SELECT BORDER TO MATCH ROOM FINISH SCHEDULE

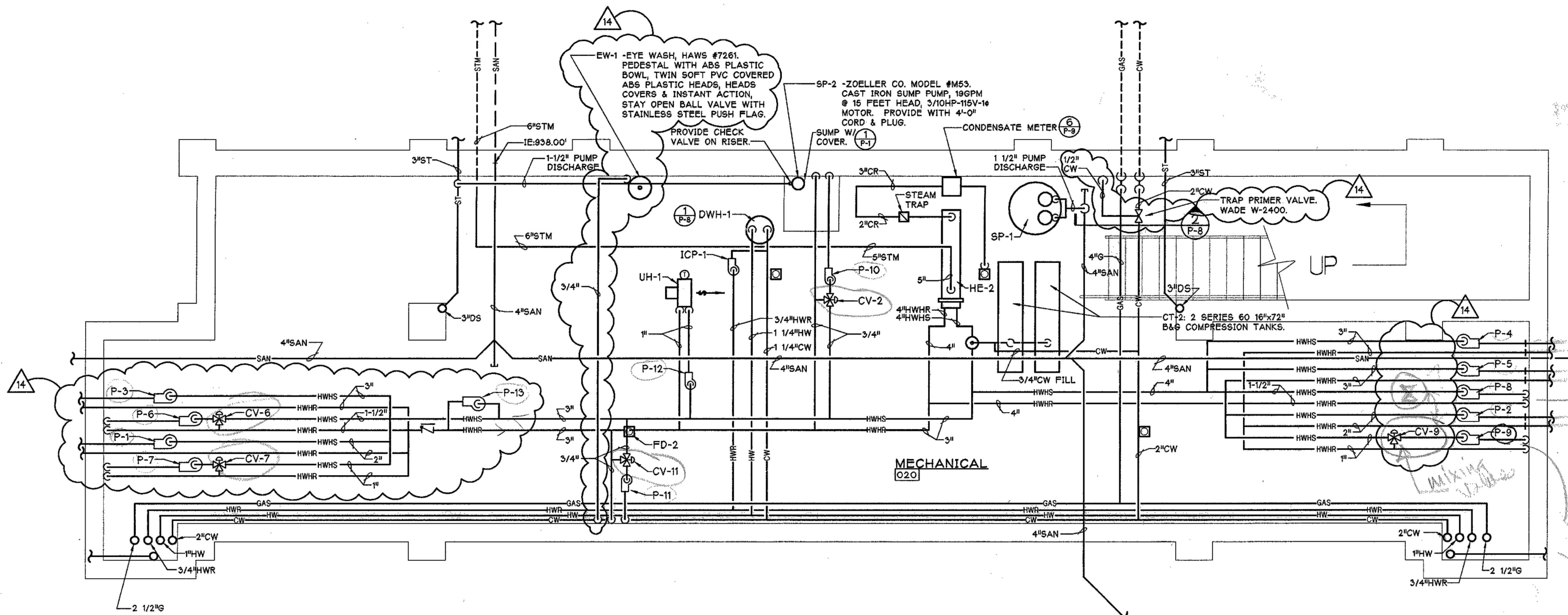
GENERAL HVAC NOTES

- LOCATIONS OF THE THERMOSTATS TO BE VERIFIED IN FIELD.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER DISCIPLINES PRIOR TO CONSTRUCTION TO AVOID CONFLICTS.
- THE CONTRACTOR SHALL FIELD VERIFY THE SIZES, LOCATION, ELEVATIONS, AND DETAILS OF ALL EXISTING CONDITIONS THAT MAY AFFECT THE WORK.
- PLANS ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXISTING EQUIPMENT AND CONNECTING ALL EXISTING EQUIPMENT CONNECTED TO EXISTING BAS TO NEW TRIDIUM BAS WHETHER THE EQUIPMENT IS SHOWN ON THE PLANS OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EQUIPMENT AND MATERIALS IN A "NEW" CONDITION DURING CONSTRUCTION.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND SUBCONTRACTORS AS REQUIRED BY LAW.
- ALL WORK SHALL CONFORM TO MICHIGAN MECHANICAL CODE, LATEST APPLICABLE EDITION.
- IF THERE IS CONFLICTING INFORMATION IN THE PLANS OR SPECIFICATIONS THE MORE STRINGENT AND GREATER COST ITEM SHALL BE USED.
- DRAWINGS INDICATE REQUIRED SIZES AND POINTS OF TERMINATION OF PIPES AND DUCTS AND SUGGESTED ROUTES. IT IS NOT INTENTION OF DRAWINGS TO INDICATE ALL NECESSARY OFFSETS. INSTALL WORK IN MANNER TO CONFORM TO STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. DO NOT SCALE FROM DRAWINGS.

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DLZ MICHIGAN, INC.



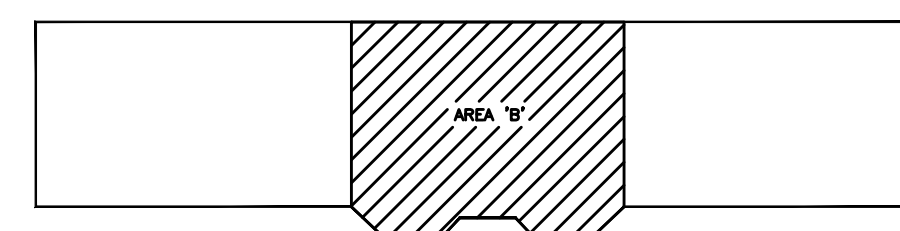
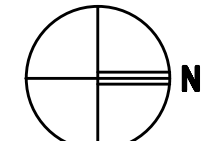
HVAC GENERAL NOTES

- DISCONNECT, REMOVE, AND DEMO ALL OF THE EXISTING JOHNSON CONTROLS SYSTEM. INSTALL NEW TRIDIUM CONTROLS SYSTEM AND CONNECT TO EXISTING TRIDIUM CONTROLS SYSTEM LOCATED AT CATA ADMINISTRATIVE OFFICES, 4615 TRANTER STREET, LANSING, MI 48910. UPDATE GRAPHICS AT BOTH THE TRANTER STREET LOCATION AND S. GRAND AVE. LOCATION TO SHOW ALL EQUIPMENT AND CONTROL POINTS.

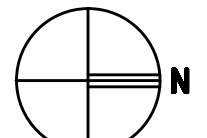
DRAWN: BRH
 DESIGNED: BRH
 DATE: JUNE 15, 2012
 CHK'D: CAT
 APPR'D: DC/CAT
 PROJECT NUMBER
 0941.6302.00

PARTIAL LOWER LEVEL PLAN - AREA 'B' REFERENCE PLAN

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

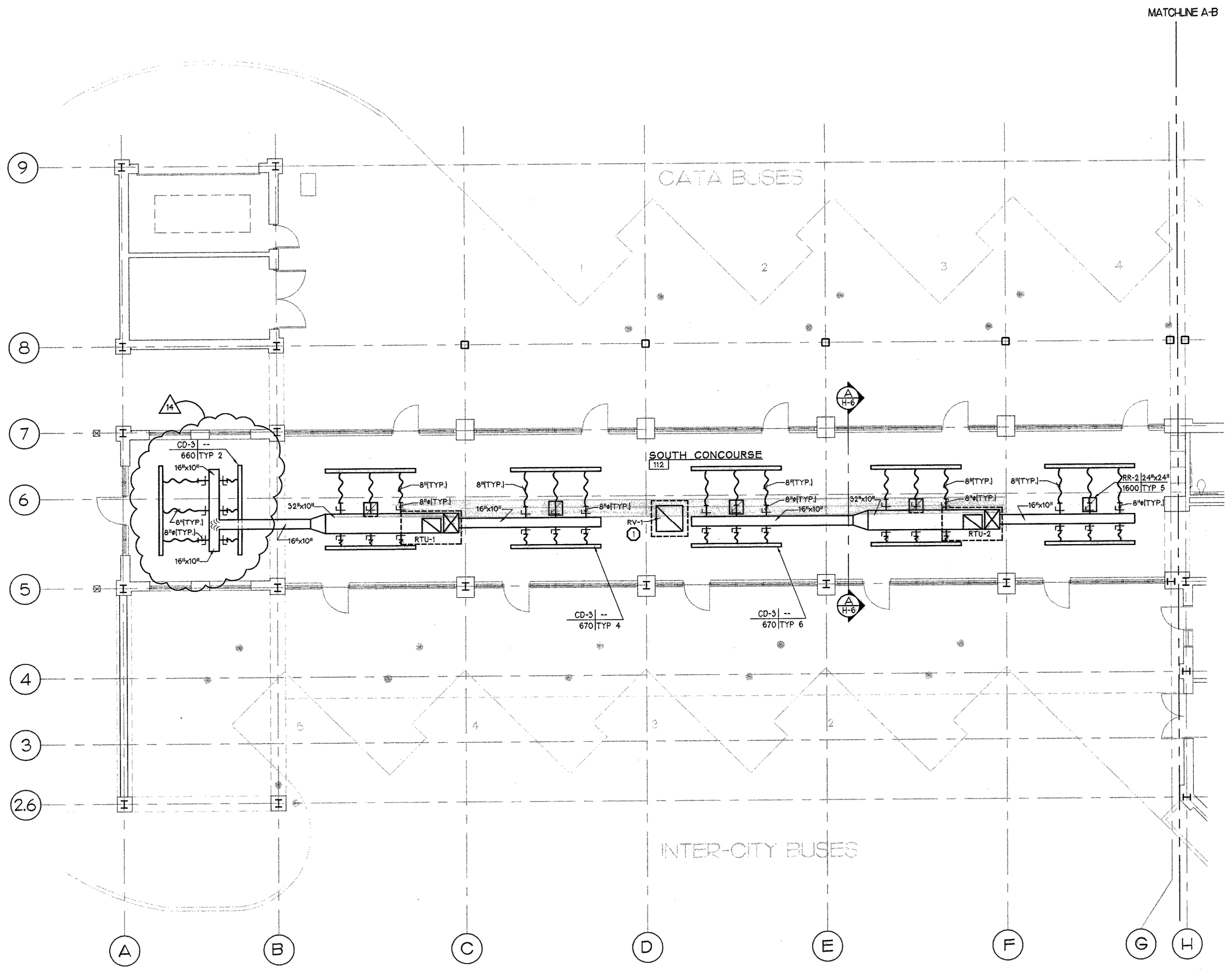


KEY PLAN
 SCALE: N.T.S.



CAPITAL AREA TRANSPORTATION AUTHORITY
 CTC CONTROLS UPGRADES
 PARTIAL LOWER LEVEL PLAN - AREA 'B'
 REFERENCE PLANS

SHEET 1
 OF 4
 DRAWING NUMBER
M4.0



**PARTIAL FIRST FLOOR
PLAN - AREA 'A'
REFERENCE PLAN**

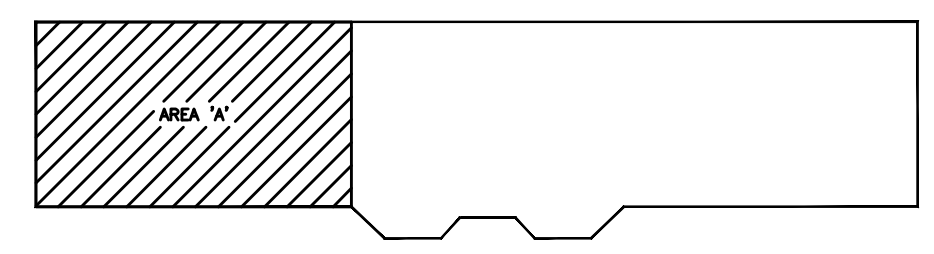
SCALE: 1/8" = 1'-0"

HVAC KEY NOTES

- ① DISCONNECT, REMOVE, AND DEMO EXISTING GRAVITY BACKDRAFT DAMPER CONNECTED TO THE RELIEF HOOD AND REPLACE WITH A MOTORIZED MODULATING DAMPER.

HVAC GENERAL NOTES

- 1. DISCONNECT, REMOVE, AND DEMO ALL OF THE EXISTING JOHNSON CONTROLS SYSTEM. INSTALL NEW TRIDIUM CONTROLS SYSTEM AND CONNECT TO EXISTING TRIDIUM CONTROLS SYSTEM LOCATED AT CATA ADMINISTRATIVE OFFICES, 4615 TRANTER STREET, LANSING, MI 48910. UPDATE GRAPHICS AT BOTH THE TRANTER STREET LOCATION AND S. GRAND AVE. LOCATION TO SHOW ALL EQUIPMENT AND CONTROL POINTS.



KEY PLAN

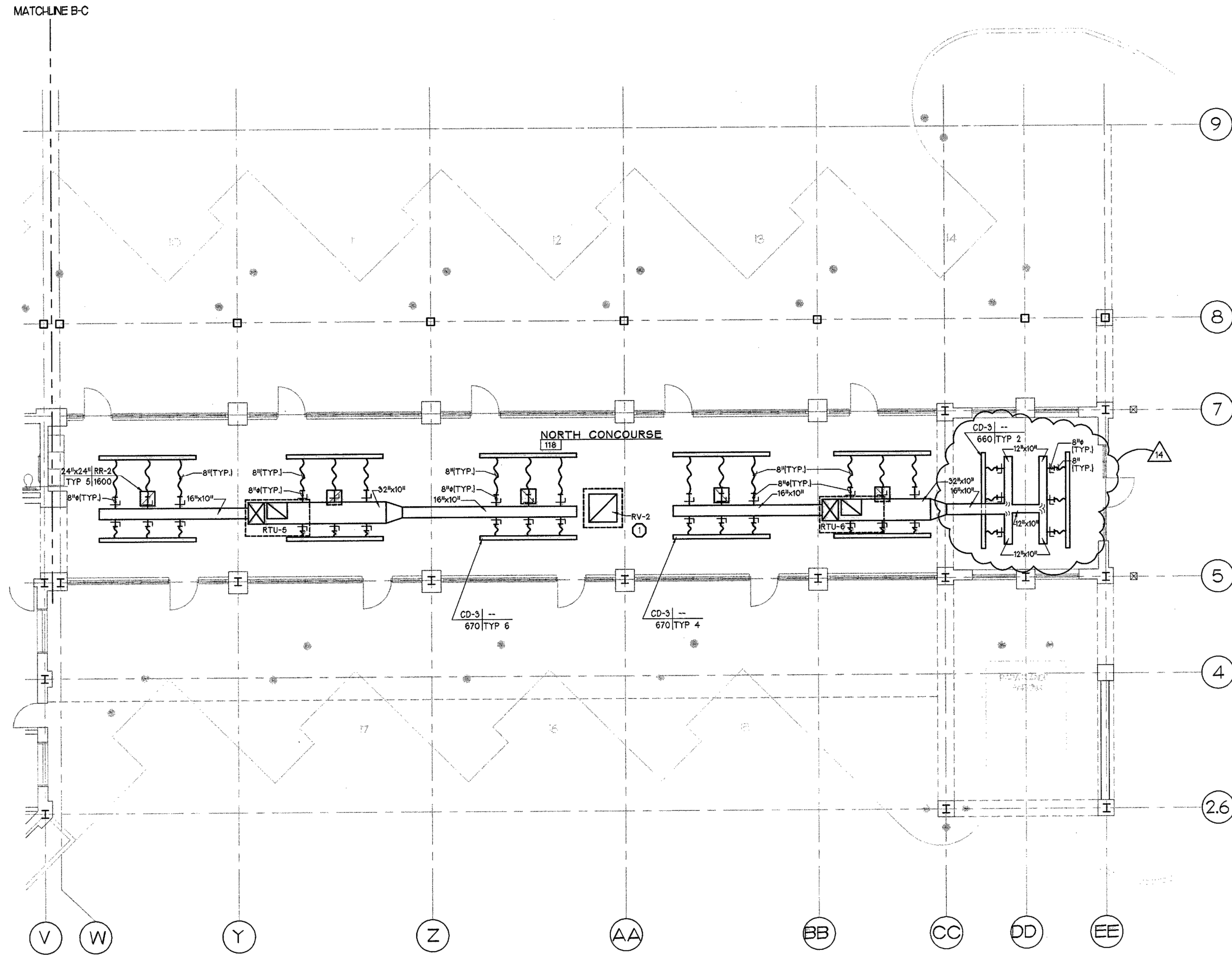
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CAPITAL AREA TRANSPORTATION AUTHORITY
CTC CONTROLS UPGRADES

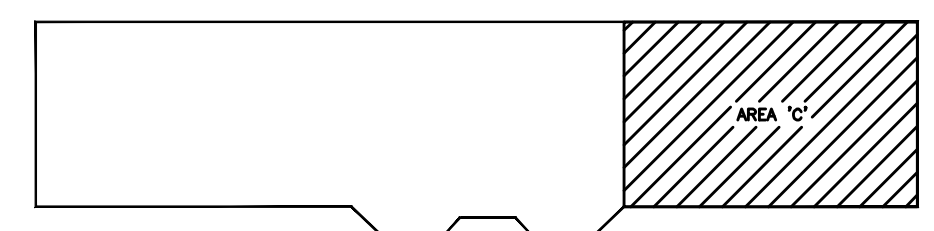
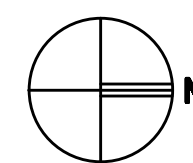
PARTIAL FIRST FLOOR PLAN - AREA 'A'
REFERENCE PLANS

SHEET	2
OF	4
DRAWING NUMBER	M4.1



**PARTIAL FIRST FLOOR
PLAN - AREA 'C'
REFERENCE PLAN**

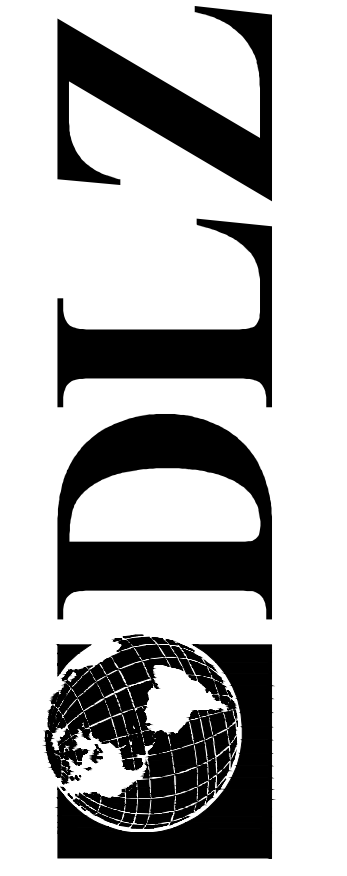
SCALE: 1/8" = 1'-0"



KEY PLAN

SCALE: N.T.S.

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CAPITAL AREA TRANSPORTATION AUTHORITY
CTC CONTROLS UPGRADES
PARTIAL FIRST FLOOR PLAN - AREA 'C'
REFERENCE PLANS

SHEET 4
OF 4

DRAWING NUMBER
M4.3