

420 Lexington Avenue  
New York, NY 10170  
www.mta.info

Catherine A. Rinaldi  
President



March 30, 2020

SK Ali-Shafin  
NYC Buildings Department  
280 Broadway, 3<sup>rd</sup> Floor  
New York, NY 10007  
212-323-8088

**RE: Partial Demolition of Cellar Slabs for Foundation Construction at  
270 Park Avenue, Manhattan, NY**

Dear Mr. Ali-Shafin:

MTA Metro-North Railroad (MNR) takes no exceptions to the referenced and attached submittals for the cellar slab demolition plans submitted.

This "takes no exception" letter makes reference to a 15-sheet document titled "*Partial Demolition of Cellar Slabs for Foundation Construction at 270 Park Avenue, Manhattan, NY*" dated 03/20/20 submitted via the Procore platform from Tishman Construction Company, prepared for Tishman Construction Company, and signed and sealed by Professional Engineer, James Scheld, a Professional Engineer licensed in the State of New York. This no exception letter is specific to the work as shown on the attached drawings. All changes to the attached drawings must be submitted to James M. Harrington for approval.

All work must be coordinated with MNR Deputy Director – GCT Special Projects,  
James M. Harrington.

Should you have any questions, please contact me at [harrington@mnrr.org](mailto:harrington@mnrr.org) or 212-499-4416.

Sincerely,

A handwritten signature in blue ink, appearing to be "J. Harrington", written over a horizontal line.

James M. Harrington, R.A.  
Deputy Director – GCT Special Projects  
MTA Metro-North Railroad

Cc: J. Kennard, M. Loney, R. Ramkeesoon, R. Gans, T. Carpinelli, M. Consoli, M. Starke  
(MTACC-ESA)

PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY

1.0 GENERAL NOTES

- 1.1 THESE PLANS ADDRESS THE MEANS-AND-METHODS OF DEMOLISHING PORTIONS OF THE CONCRETE SLABS AT THE CELLAR LEVEL AND SUB-CELLARS 1 TO 3 TO CREATE ACCESS TO CONSTRUCT THE NEW FOUNDATION AND SHEAR WALL AT D.1 LINE. THE CONCRETE SLAB AND ENCASEMENT SHALL BE DEMOLISHED. THE STEEL FRAMING SHALL REMAIN AS COLUMN BRACING FOR STRUCTURAL STABILITY.
- THE PLAN IS AMENDED TO INCLUDE SEVERAL OPENINGS AT THE GROUND FLOOR TO CREATE ACCESS TO THE INTERSTITIAL SPACE BELOW THE GROUND FLOOR. THE EXISTING STEEL FRAMING SHALL REMAIN IN PLACE.
- 1.2 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL PERTINENT REGULATIONS GOVERNING DEMOLITION, SPECIFICALLY CHAPTER 33 OF THE 2014 NYC BUILDING CODE, FDNY REGULATIONS FOR HOT WORKS, AND OSHA HEALTH AND SAFETY REGULATIONS.
- 1.3 THE PERMIT HOLDER SHALL NOTIFY THE DEPARTMENT OF BUILDINGS VIA PHONE AT (212) 393-2550 WITHIN 24 TO 48 HOURS PRIOR TO COMMENCEMENT OF DEMOLITION. TAKE NOTE OF THE PROVIDED CONFIRMATION NUMBER AT THE TIME OF THE CALL.
- IF WORK WILL NOT BEGIN AS SCHEDULED, NOTIFY THE DEPARTMENT OF BUILDINGS BY CALLING THE ABOVE NUMBER AND PROVIDE THE ORIGINAL CONFIRMATION NUMBER. NOTIFICATION OF CANCELLATION MUST BE MADE NO LATER THAN THE DAY WORK WAS SCHEDULED TO BEGIN.
- 1.4 A LICENSED CONSTRUCTION SUPERINTENDENT SHALL SUPERVISE THE WORK IN ACCORDANCE WITH NEW YORK CITY RULE 1 RCNY 3301-02. A SITE SAFETY PLAN FOR THE WORK SHALL BE KEPT ON SITE AT ALL TIMES AND AVAILABLE UPON REQUEST, UNTIL ALL WORK IS COMPLETED AND SIGNED OFF.
- 1.5 DURING DEMOLITION, INSPECTION SHALL BE MADE BY THE CONTRACTOR'S COMPETENT PERSON AS THE WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM WEAKENED OR DETERIORATED PORTIONS OF THE STRUCTURE AND THE SUITABILITY OF THE OFF POINTS. NO INDIVIDUAL SHALL BE PERMITTED TO WORK WHERE SUCH HAZARDS EXIST UNTIL THEY ARE CORRECTED.
- 1.6 SUBSTANTIAL CHANGES GOVERNED BY FIELD CONDITIONS OR UNUSUAL CONDITIONS SHALL BE PROMPTLY REPORTED TO THE ENGINEER OF RECORD.

2.0 DEMOLITION PROCEDURE

THE DEMOLITION SEQUENCE SHALL BE PERFORMED IN A TOP-DOWN FLOOR-BY-FLOOR MANNER WHERE THE CONCRETE SLAB AND ENCASEMENT IS CHOPPED FROM ONE LEVEL AND DROPPED TO THE NEXT LEVEL WHERE IT IS CLEANED UP. THE EXISTING STEEL FRAMING SHALL REMAIN IN-PLACE AND INTACT.

3.0 DEMOLITION EQUIPMENT

- 3.1 HANDHELD TOOLS AND POWER SOURCES :
- |  |  |  |
|--|--|--|
| GENERATOR<br>COMPRESSOR<br>SAWZ-ALL<br>CUTTING WHEEL | CHIPPING GUN<br>JACKHAMMER<br>SLEDGEHAMMER<br>DEMOLITION SAW | CONCRETE CHAINSAW<br>RING SAW<br>TRACK SAW<br>ROAD SAW |
|--|--|--|
- 3.2 MECHANICAL EQUIPMENT PERMITTED TO OPERATE ON THE CELLAR LEVEL AND SUB-CELLARS 1 TO 3 :
- |                                      |                              |                         |
|--------------------------------------|------------------------------|-------------------------|
| ECOVOLVE ED800 ELECTRIC DUMP BUGGY   | OPERATING WEIGHT = 2,650 LBS | CAPACITY = 1750 LBS     |
| ECOVOLVE ED1000 ELECTRIC DUMP BUGGY  | OPERATING WEIGHT = 2,866 LBS | CAPACITY = 2200 LBS     |
| ECOVOLVE ED1500 ELECTRIC DUMP BUGGY  | OPERATING WEIGHT = 3,300 LBS | CAPACITY = 3300 LBS     |
| BROKK 150                            | OPERATING WEIGHT = 2,238 LBS | ATTACHMENT WT = 331 LBS |
| BROKK 170                            | OPERATING WEIGHT = 3,527 LBS | ATTACHMENT WT = 595 LBS |
| BROKK 200                            | OPERATING WEIGHT = 4,630 LBS | ATTACHMENT WT = 772 LBS |
| IHI 17VXE COMPACT ELECTRIC EXCAVATOR | OPERATING WEIGHT = 3,583 LBS | ATTACHMENT WT = 500 LBS |
| CATERPILLAR 304E CR MINI-EXCAVATOR   | OPERATING WEIGHT = 8,500 LBS | ATTACHMENT WT = 500 LBS |
- 3.3 MECHANICAL EQUIPMENT WITH EQUIVALENT OPERATING WEIGHT AND CAPACITY CAN BE SUBSTITUTED. REVIEW WITH ENGINEER BEFOREHAND.

4.0 FLOOD HAZARD

- 4.1 THE PROPERTY UNDER CONSIDERATION IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD AREA AS DEFINED ON 2007 AND 2013 FEMA FIRM MAPS.

5.0 LANDMARK BUILDINGS

- 5.1 THE 270 PARK AVE BUILDING IS NOT A LANDMARK BUILDING.
- 5.2 THE 21-STORY BUILDING AT 400 MADISON AVE IS A LANDMARK BUILDINGS AND WITHIN 90 FEET OF THE PROPERTY LINE. THE BUILDING SHALL MONITORED UNDER THE NYC DEPARTMENT OF BUILDINGS CRITERIA FOR HISTORICAL BUILDINGS 199N 10/88,
- THE MONITORING PLAN SHALL INCLUDE :
- OPTICAL SURVEY PERFORMED TWICE WEEKLY DURING DEMOLITION ACTIVITIES. THE MAXIMUM PERMISSIBLE VERTICAL AND HORIZONTAL MOVEMENT SHALL BE 1/4".
  - PHOTO-DOCUMENTATION AND PRE-CONSTRUCTION SURVEY OF EXISTING CONDITIONS PRIOR TO DEMOLITION.
  - SIGNIFICANT EXISTING CRACKS SHALL BE MONITORED BY INSTALLING AND CRACK GAGES AND MONITORED WEEKLY. IF MOVEMENT IS DETECTED, CRACK GAGE MONITORING SHALL BE MORE FREQUENT.
  - VIBRATION MONITORS SHALL BE INSTALLED AT GRADE OR BELOW GRADE AND MONITORED DURING DEMOLITION ACTIVITIES. THE MAXIMUM PERMISSIBLE PEAK PARTICLE VELOCITY SHALL BE 0.5 IN/SEC.

IF THE OPTICAL SURVEY OR VIBRATION MONITORING THRESHOLDS ARE EXCEEDED, WORK SHALL STOP, AN ASSESSMENT OF THE CAUSE OF THE EXCEEDANCE SHALL BE PERFORMED, AND A DETERMINATION OF CORRECTIVE MEASURES SHALL BE MADE AS NEEDED.

6.0 ASSOCIATED METRO-NORTH RAILROAD AND EAST SIDE ACCESS INFRASTRUCTURE AND ACCESS POINTS

- 6.1 THERE ARE TWO LEVELS OF ACTIVE METRO-NORTH RAILROAD (MNR) TRAIN LINES UNDER THE TOWER AND EAST PORTION OF THE PODIUM.
- 6.2 WITHIN THE PROPERTY LINE ALONG E.48TH ST (APPROXIMATELY 100 FT EAST OF MADISON AVE), AN EMERGENCY EGRESS STAIR EXITS FROM THE EAST SIDE ACCESS SPACE ASSOCIATED WITH THE MNR TRAIN SHED. THE EMERGENCY EXIT SHALL BE MAINTAINED, CLEAR AND ACCESSIBLE AT ALL TIMES, SATISFACTORY TO METRO-NORTH. SIGNAGE SHALL BE PROVIDED TO CLEARLY IDENTIFY ITS LOCATION.
- 6.3 ON THE SOUTH SIDE OF THE PODIUM AT THE WEST END OF E.47TH STREET, THERE IS AN EASEMENT FOR A MNR ENTRANCE. THE ENTRANCE HAS A STAIR AND AN ESCALATOR THAT ACCESS THE MNR CROSS PASSAGEWAY. THE STAIR AND ESCALATOR CROSS OVER THE D.1 LINE AT THE CELLAR AND SUB-CELLAR 1 LEVELS, THEREFORE THE SLAB DEMOLITION SHALL BE HELD BACK FROM THE STAIR AND ESCALATOR.
- 6.4 THERE IS NO MTA SUBWAY OR SUBWAY ENTRANCES WITHIN 200 FT OF THE PROPERTY LINE.

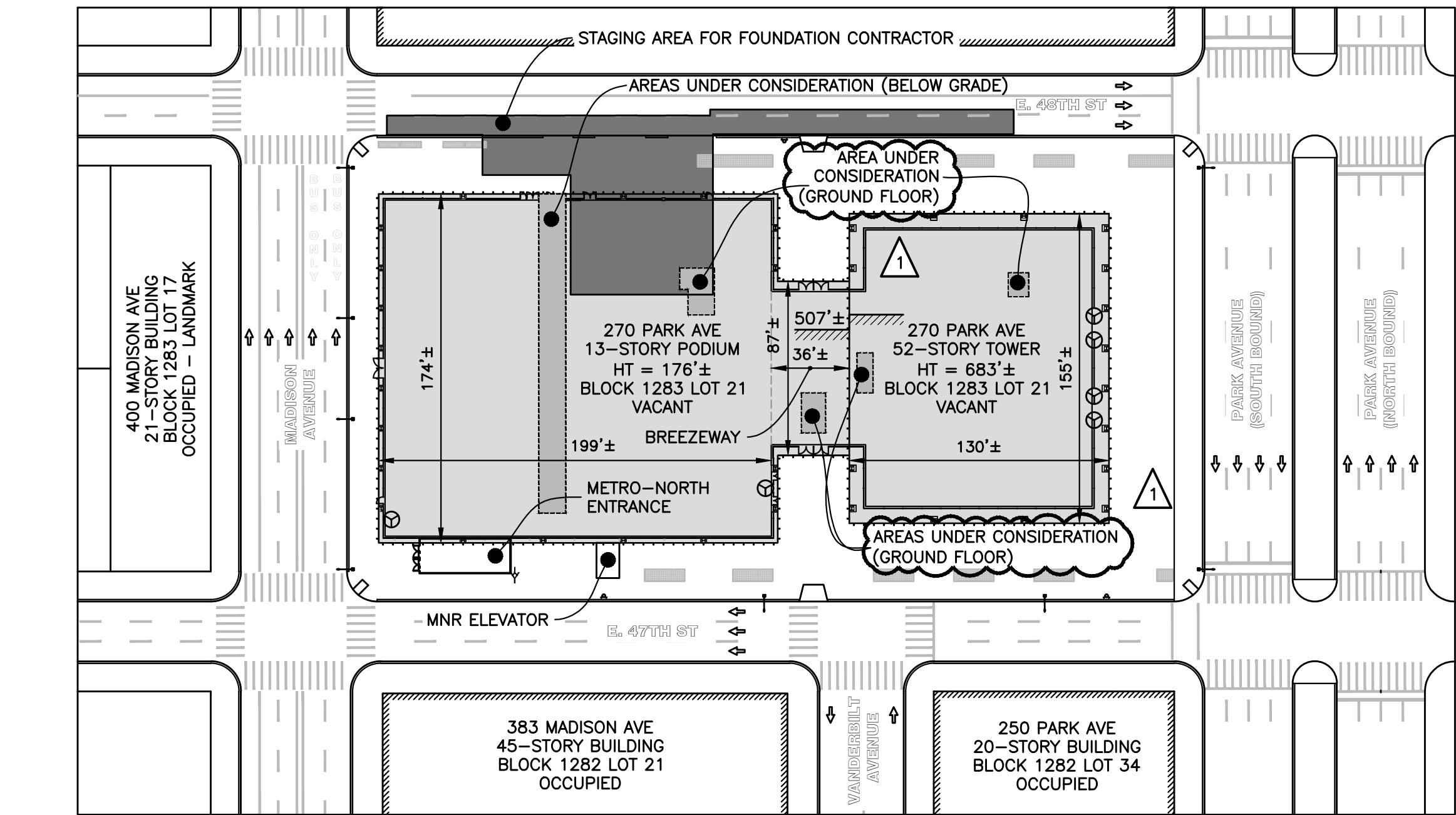
7.0 MONITORING METRO-NORTH RAILROAD AND EAST SIDE ACCESS STRUCTURES

- 7.1 A MONITORING PLAN AND CRITERIA FOR THE BELOW-GRADE MNR AND EAST SIDE ACCESS STRUCTURES, 270 PARK AVENUE, AND NEIGHBORING PROPERTIES HAS BEEN DEVELOPED BY MUESER-RUTLEDGE CONSULTING ENGINEERS.
- SEE MRCE MONITORING PLAN DATED 12/03/18.

STATUS : DRAWING LIST :		
S	DM-001.01	GENERAL NOTES AND KEY PLAN
-	DM-002.00	LEGEND & PERMIT LOG
-	DM-003.00	DEMOLITION NOTES
S	DM-004.01	SAFETY ZONE PLAN - GROUND FLOOR
-	DM-005.00	CELLAR PLAN
-	DM-006.00	SUB-CELLAR 1 PLAN
-	DM-007.00	SUB-CELLAR 2 PLAN
-	DM-008.00	SUB-CELLAR 3 PLAN
-	DM-009.00	SECTIONS A-A & B-B
-	DM-010.00	SECTION C-C
-	DM-011.00	FINAL SITE CONDITION - CELLAR AND SUB-CELLAR 1 PLANS
-	DM-012.00	FINAL SITE CONDITION - SUB-CELLAR 2 AND 3 PLANS
-	DM-013.00	FINAL SITE CONDITION - SECTION D-D
-	DM-014.00	DEMOLITION DETAILS SHEET 1 OF 2
-	DM-015.00	DEMOLITION DETAILS SHEET 2 OF 2
N	DM-101.00	GROUND FLOOR PARTIAL FRAMING PLAN
N	DM-102.00	GROUND FLOOR & LOADING DOCK - PARTIAL FRAMING PLAN
N	DM-103.00	GROUND FLOOR OPENINGS - BELOW GRADE EXCLUSION ZONE PLAN
"N"= NEW SHEET "S"= SUPERSEDING "O"= OMITTED "-"= NO CHANGE		

SPECIAL INSPECTIONS :	
MECHANICAL DEMOLITION	BC 1704.20.4
PROGRESS INSPECTIONS :	
FINAL	8-116.2.4.2, BC 110.5, DIRECTIVE 14 OF 1975, AND 1 RCNY 101-10

BUILDING DATA:	
BOROUGH:	MANHATTAN
ADDRESS:	270 PARK AVENUE
BLOCK:	1283
LOT:	21
BIN:	1035421
ZONING DISTRICT:	C5-3 RESTRICTED CENTRAL COMMERCIAL DIST.
ZONING MAP No.:	8D
SPECIAL PURPOSE DIST.:	MID - SPECIAL MIDTOWN DISTRICT
SPECIAL PURPOSE SUBDIST.:	EM - EAST MIDTOWN SUBDISTRICT
COMMUNITY BOARD:	105
OCCUPANCY CLASS:	E - BUSINESS (1968 CODE)
CONSTRUCTION CLASS:	TYPE 1-B NONCOMBUSTIBLE (1968 CODE)
No. OF STORIES:	52
HEIGHT OF BUILDING:	683'±



KEY PLAN

Scale : 1" = 60'



CONTRACTOR'S DUTIES & LIMIT OF ENGINEER'S RESPONSIBILITY :

- THE PLANS HEREIN PRESENT A GENERAL SCHEME FOR DEMOLITION. DUE TO THE NATURE OF DEMOLITION, IT IS IMPOSSIBLE FOR THE ENGINEER TO ANTICIPATE ALL CONDITIONS OR CONTINGENCIES. IF THE CONTRACTOR DISCOVERS A CONDITION OR CIRCUMSTANCE THAT IS ASSESSED TO NEED THE ENGINEER'S SCRUTINY, THE CONTRACTOR SHALL PROVIDE TIMELY NOTIFICATION TO THE ENGINEER.
- AN ENGINEER DESIGNATED FOR SPECIAL INSPECTION IS RESPONSIBLE FOR PERFORMANCE OF THAT INSPECTION DUTY IN CONFORMANCE WITH NYC BUILDING CODE AND DEPT OF BUILDINGS DIRECTIVES. SEE "SPECIAL INSPECTIONS" NOTES FOR LISTING OF APPLICABLE CODE SECTIONS.
- THE ENGINEER HAS NO ONGOING PRESENCE ON THE SITE, NO CONTROL OF ACTIVITIES ON THE SITE, NO SUPERVISORY ROLE AND NO FIELD RESPONSIBILITY FOR SITE SAFETY.
- THE CONTRACTOR IS RESPONSIBLE FOR SUPERVISION OF THE WORK INCLUDING PERSONNEL PROTECTION IN ACCORDANCE WITH OSHA AND OTHER APPLICABLE REGULATIONS, PUBLIC PROTECTION IN ACCORDANCE WITH THE NYC BUILDING CODE AND PROTECTION OF ADJACENT PROPERTIES.
- IN ORDER TO BE ABLE TO CARRY OUT DUTIES IMPOSED IN BC CHAPTERS 17 AND 33, THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR BETWEEN 24 AND 72 HOURS PRIOR TO THE START OF STRUCTURAL DEMOLITION.
- THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR PROMPTLY OF ANY DEVIATION FROM THE APPROVED PLAN, UNEXPECTED CONDITIONS OR INCIDENTS INVOLVING INJURY, COLLAPSE, PROPERTY DAMAGE OR VIOLATIONS ISSUED BY GOVERNMENT ENTITIES.

NOTES REGARDING CONDITION OF STRUCTURE :

BASED ON INSPECTION OF THE ACCESSIBLE PORTIONS OF THE BUILDING, THE STRUCTURAL ELEMENTS APPEAR TO BE STRUCTURALLY SOUND WITH NO VISIBLE DAMAGE CAUSED BY FIRE, FLOOD, CORROSION, AGE, OR OTHER CAUSES. SHORING, BRACING, OR REMEDIAL WORK NEED NOT BE INSTALLED PRIOR TO DEMOLITION.

NYCECC COMPLIANCE:

- TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT THIS APPLICATION IS IN COMPLIANCE WITH THE NYCECC 2016. THIS APPLICATION IS AN EXCEPTION. THE SCOPE OF WORK DOES NOT AFFECT THE ENERGY USE OF THE BUILDING.

ENERGY ANALYSIS FOR PARTIAL DEMOLITION WORK, AS SHOWN CLIMATE ZONE: COMMERCIAL - 4A (NEW YORK)	
WORK DESCRIPTION	CODE AND PROPOSED DESIGN VALUES
DEMOLITION OF CONCRETE SLABS AT CELLAR LEVEL AND SUB-CELLAR LEVELS 1 TO 3	NOT APPLICABLE WORK WITHIN THE SCOPE OF THIS APPLICATION DOES NOT ALTER THE CONSTRUCTION OF THE PERIMETER ENVELOPE OF THE BUILDING.

1	03/20/20	REVISED COVER SHEET	KC
No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> CONSULTING ENGINEERS, P.C.			

266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563  
TEL: (516) 791-2600 FAX: (516) 791-5425

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CLIENT  
JOHN CIVETTA & SONS, INC.  
1123 BRONX RIVER AVE, BRONX, NY 10472  
PH: (718) 589-9000

PROJECT  
PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY

ZONING INFORMATION  
BLOCK: 1283  
LOT: 21  
ZONE: C5-3  
ZONING MAP: 8D  
COMMUNITY BOARD: 105  
BIN #: 1035421

PLACE STICKER HERE  
EXAMINER'S STAMP HERE

TITLE  
GENERAL NOTES AND KEY PLAN

SEAL & SIGNATURE 	DRAWING BY: KC DATE: 03/20/2020 PROJECT NO: 18211.03.00 ENGINEER: JS SCALE: AS NOTED CHK BY: JS DWG NO: DM-001.01
3/20/20	I OF 18

L E G E N D			
	FOUNDATION CONTRACTOR WORK AREA		PROPERTY LINE
	AREA UNDER CONSIDERATION		STEEL FRAMING
	HEAVY-DUTY SIDEWALK SHED		EXISTING GUARDRAIL
	ROOF PROTECTION		STANDARD GUARDRAIL
	COVER OVER OPENING		CONSTRUCTION FENCE
	HOIST COMMON PLATFORM		4' HIGH PLYWOOD FENCE w/FULL HEIGHT WIRE MESH TYP.
	METRO-NORTH GRATING OVER VENTILATION STRUCTURE		2V:1H EXCLUSION ZONE
	FIRE DEPARTMENT CONNECTION FOR STANDPIPE TO REMAIN.		TEMP. STORMWATER LINE BY OTHERS
	STANDPIPE RISER		TEMP. ELECTRIC LINE BY OTHERS
	CAUTION / SAFETY NOTE		TEMP. WATER LINE BY OTHERS
	FIRE HYDRANT		CONCRETE JERSEY BARRIER WITH PLYWOOD FENCE ON TOP
	STREET LAMP		PLASTIC JERSEY BARRIER WITH CHAINLINK FENCE AND NETTING
	STREET SIGN		FLAGMAN / SECURITY GUARD
	MNR EMERGENCY EGRESS		1' STEEL PLATE
	EGRESS FOR FOUNDATION CONTRACTOR		DEBRIS SHIELD
	EGRESS FOR DEMOLITION CONTRACTOR		EXISTING STAIR
	EXISTING BUILDING COLUMN		EXISTING ELEVATOR
	DIRECTION OF TRAFFIC		SCAFFOLD WITH DEBRIS NETTING

PERMIT LOG :

HOIST, SIDEWALK SHED, SCAFFOLD, & FENCE :

ALT-3 WEST HOIST COMPLEX (CARS 1 & 2)	140806894
ALT-3 CONSTRUCTION FENCE	M00078455
ALT-3 SIDEWALK SHED	M00086485
ALT-3 SIDEWALK SHED	M00091254
ALT-3 SIDEWALK SHED	M00098827
ALT-3 SIDEWALK SHED	M00098832
ALT-3 SIDEWALK SHED (OVER MNR EXIT)	M00127929
ALT-2 HEAVY-DUTY PLATFORM (GRD)	140842257
ALT-2 LOADING DOCK (GRD)	123893331

PHASE 2.3: SCAFFOLD INSTALLATION :

ALT-3 NEEDLE BEAM PLATFORM & SCAFFOLD (TOWER FLOORS 41-53)	M00105137-11-SF
ALT-3 NEEDLE BEAM PLATFORM & SCAFFOLD (TOWER FLOORS 29-41)	M00134730-11-SF
ALT-3 NEEDLE BEAM PLATFORM & SCAFFOLD (TOWER FLOORS 16-29)	M00134735-11-SF
ALT-3 TOWER BASE SCAFFOLD (TOWER FLOORS 1 TO 16)	M00140916
ALT-3 SCAFFOLD ON TOP OF SIDEWALK SHED (PODIUM FLOORS 2-14)	M00133856-11-SF

PREPARATION FOR DEMOLITION :

ALT-2 REMOVAL OF HVAC AND MECH. EQ & EQ PERMIT	121204785
ALT-2 STANDPIPE CONVERSION	123892895
ALT-2 TROLLEY BEAM & WINCH	123885901
ALT-2 DEBRIS SHAFT	140850265
ALT-2 DEBRIS SHAFT # 2 EAST	140864223
FULL DEMOLITION	123655640
TEMPORARY ELECTRIC LIGHT & POWER	M00141508-11-EL
TEMPORARY ELECTRIC BUS DUCT RE-FEED	M00141992-11-EL

CRANE NOTIFICATIONS :

TOWER CRANE FOR DEMOLITION	170/19
MOBILE CRANE FOR FOUNDATION WORK	902/19
MOBILE CRANE FOR DEMOLITION	PENDING

FOUNDATION WORK :

ALT-2 INSTALLATION OF CAISSONS AND PILE CAPS (CEL, SUB)	121189285
ALT-2 FOUNDATION ENHANCEMENTS AT D.1 LINE	121204810
ALT-2 HAND DEMOLITION OF PORTION OF SUB-CELLAR 2	140883636
ALT-2 MECHANICAL DEMOLITION OF PORTION OF CELLAR AND SUB-CELLAR SLABS	121207087

No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> <b>CONSULTING ENGINEERS, P.C.</b> 266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563 TEL: (516) 791-2600 FAX: (516) 791-5425 COPYRIGHT DESIGN NOT TO BE LENT, COPIED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT. THIS OFFICE DISCLAIMS ANY RESPONSIBILITY FOR DRAWINGS OR OTHER DOCUMENTS RELATED TO THIS PROJECT UNLESS THEY BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER OF THIS OFFICE. THE NEW YORK STATE EDUCATION LAW PROHIBITS ANY ALTERATIONS TO, OR DELETIONS FROM, THIS DRAWING EXCEPT AS MAY BE MADE BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO WILL BEAR THE RESPONSIBILITY FOR SUCH CHANGE.			
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		PROJECT NO: 18211.03.00	
		ENGINEER: JS	
		SCALE: AS NOTED	
		CHK BY: JS	
		DWG NO:	
		DM-002.00	
3/20/20		V:2018\18211.03.00 2 OF 18	



2014 NYC BC SECTION 3306 DEMOLITION

3306.2 PROTECTION OF PEDESTRIANS AND ADJOINING PROPERTY.

DEMOLITION OPERATIONS SHALL NOT COMMENCE UNTIL THE APPLICABLE PEDESTRIAN AND ADJOINING PROPERTY PROTECTION IS IN PLACE AS REQUIRED BY SECTIONS 3307, 3308 AND 3309.

3306.2.1. SAFETY ZONE.

A SAFETY ZONE SHALL BE PROVIDED AROUND ALL DEMOLITION AREAS TO PREVENT PERSONS FROM ENTERING SUCH ZONE. WHERE DEMOLITION OCCURS ON THE EXTERIOR OF A BUILDING, SUCH ZONE SHALL BE APPROVED THE COMMISSIONER PRIOR TO THE COMMENCEMENT OF DEMOLITION. WHERE MECHANICAL DEMOLITION EQUIPMENT, OTHER THAN HANDHELD DEVICES, IS TO BE USED FOR THE FULL DEMOLITION OF A BUILDING, THE SAFETY ZONE, SHALL BE EQUAL TO OR GREATER THAN HALF THE HEIGHT OF THE BUILDING TO BE DEMOLISHED; SUCH SAFETY ZONE MAY BE REDUCED BY THE SAME RATIO AS THE BUILDING IS BEING DEMOLISHED.

EXCEPTION:

APPROVAL OF THE COMMISSIONER IS NOT REQUIRED FOR A SAFETY ZONE ESTABLISHED FOR DEMOLITION ON THE EXTERIOR OF A BUILDING, PROVIDED THE WORK IS A MINOR ALTERATION OR ORDINARY REPAIR AND IS ACCOMPLISHED WITHOUT ANY MECHANICAL DEMOLITION EQUIPMENT, OTHER THAN HANDHELD DEVICES.

3306.8. DEMOLITION SEQUENCE.

ANY STRUCTURAL MEMBER THAT IS BEING DISMEMBERED SHALL NOT SUPPORT ANY LOAD OTHER THAN ITS OWN WEIGHT. NO WALL, CHIMNEY, OR OTHER STRUCTURAL PART SHALL BE LEFT IN SUCH CONDITION THAT IT MAY COLLAPSE OR BE TOPPLED BY WIND, VIBRATION OR ANY OTHER CAUSE. THE METHOD OF REMOVAL OF ANY STRUCTURAL MEMBER SHALL NOT DESTABILIZE REMAINING MEMBERS. ALL HANDLING AND MOVEMENT OF MATERIAL OR DEBRIS SHALL BE CONTROLLED SUCH THAT IT WILL NOT DEVELOP UNACCOUNTED IMPACT LOADS ON THE STRUCTURE.

3306.9.9 STAIRS.

ALL ENCLOSED VERTICAL SHAFTS AND STAIRS SHALL BE MAINTAINED ENCLOSED AT ALL FLOORS EXCEPT THE UPPERMOST FLOOR BEING DEMOLISHED, AND ALL WORK ON THE UPPERMOST FLOOR SHALL BE COMPLETED BEFORE STAIR AND SHAFT ENCLOSURES ON THE FLOOR BELOW ARE DISTURBED. ALL HAND RAILS AND BANISTERS SHALL BE LEFT IN PLACE UNTIL ACTUAL DEMOLITION OF SUCH FLOOR IS IN PROGRESS.

3306.10 FLOORS.

THE SAFEGUARDS OF SECTIONS 3306.9.10.1 THROUGH 3306.10.3 SHALL APPLY TO DEMOLITION OPERATIONS INVOLVING FLOORS.

3306.9.10.1 BEARING PARTITIONS AND HEADERS.

NO BEARING PARTITION SHALL BE REMOVED FROM ANY FLOOR UNTIL THE FLOOR FRAMING SYSTEM ON THE FLOOR ABOVE HAS BEEN REMOVED AND LOWERED. ALL HEADER BEAMS AND HEADERS AT STAIR OPENINGS AND CHIMNEYS SHALL BE CAREFULLY EXAMINED AND, WHERE REQUIRED, SHALL BE SHORED FROM THE CELLAR FLOOR THROUGH SUCCESSIVE FLOORS. ALL OPERATIONS SHALL BE CONTINUALLY MONITORED BY A QUALIFIED PERSON DESIGNATED BY THE PERMIT HOLDER AS THE WORK PROGRESSES TO DETECT ANY HAZARDS THAT MAY DEVELOP.

3306.9.10.2 FLOOR OPENINGS.

OPENINGS IN ANY FLOOR SHALL NOT AGGREGATE MORE THAN 25 PERCENT OF THE AREA OF THAT FLOOR UNLESS IT CAN BE SHOWN BY SUBMISSION FROM A REGISTERED DESIGN PROFESSIONAL TO THE SATISFACTION OF THE COMMISSIONER THAT LARGER OPENING WILL NOT IMPAIR THE STABILITY OF THE STRUCTURE.

3306.9.10.03 PROTECTION OF FLOOR OPENINGS.

FLOOR OPENINGS USED FOR THE REMOVAL OF DEBRIS SHALL COMPLY WITH SECTION 3306.9.12.1. EVERY OPENING NOT USED FOR THE REMOVAL OF DEBRIS IN ANY FLOOR SHALL BE SOLIDLY PLANKED OVER BY PLANKING NOT LESS THAN 2 INCHES (51 MM) IN THICKNESS, OR EQUIVALENT SOLID MATERIAL, AND LAID CLOSE.

3306.9.11. STORAGE OF MATERIAL.

3306.9.11.1. EXAMINATION OF CONNECTIONS.

BEFORE ANY MATERIAL IS STORED ON ANY FLOOR, THE EXISTING FLOORING ADJACENT TO BEARING WALLS, SHEAR WALLS, BEAMS, AND COLUMNS SHALL BE REMOVED AND THE CONNECTIONS OF THE FLOOR FRAMING SYSTEM TO THE BEARING WALLS, SHEAR WALLS, BEAMS AND COLUMNS SHALL BE CAREFULLY EXAMINED BY A COMPETENT PERSON DESIGNATED BY THE PERMIT HOLDER TO ASCERTAIN THEIR CONDITION AND ADEQUACY TO SUPPORT SUCH MATERIAL. IF THE CONNECTIONS ARE FOUND TO BE IN POOR CONDITION OR INADEQUATE TO SUPPORT THE STORED MATERIAL, NO MATERIAL SHALL BE DEPOSITED ON THE FLOOR UNTIL THESE CONNECTIONS ARE SHORED FROM THE CELLAR FLOOR THROUGH EACH SUCCESSIVE FLOOR OR OTHERWISE STRENGTHENED TO SAFELY SUPPORT SUCH MATERIAL.

3306.9.12. REMOVAL OF MATERIAL.

DEBRIS, BRICKS, AND SIMILAR MATERIAL SHALL BE REMOVED THROUGH OPENINGS IN THE FLOORS OF THE STRUCTURE, OR BY MEANS OF CHUTES, BUCKETS, OR HOISTS THAT COMPLY WITH THE PROVISIONS OF THIS CHAPTER.

3306.12.1. PROTECTION OF FLOOR OPENINGS.

EVERY OPENING IN A FLOOR USED FOR THE REMOVAL OF DEBRIS SHALL BE TIGHTLY ENCLOSED WITH A SHAFT WAY, EXTENDING FROM FLOOR TO FLOOR, WITH SUCH SHAFT WAY ENCLOSED WITH:

- PLANKING NOT LESS THAN 2 INCHES (51 MM) IN THICKNESS, OR EQUIVALENT SOLID MATERIAL, OR
- WHERE THE OPENING IS USED FOR THE REMOVAL OF NONCOMBUSTIBLE MATERIAL, WIRE MESH MAY BE UTILIZED IN LIEU OF PLANKING, PROVIDED SUCH MESH IS NOT LESS THAN NUMBER 18 GAGE WIRE MESH, WITH OPENINGS IN THE WIRE NO LONGER THAN 1/2 INCH (13 MM), AND ALSO PROVIDED THAT THE MESH WIRE IS SECURELY ATTACHED, IN ACCORDANCE WITH DRAWINGS DEVELOPED BY A REGISTERED PROFESSIONAL, TO THE SHAFT WAY SO THAT THE WIRE MESH ENCLOSURE IN ANY LOCATION DOES NOT DEFLECT MORE THAN 2 INCHES (51 MM) WHEN A FORCE OF AT LEAST 200 POUNDS (890 N) IS APPLIED ALONG ANY HORIZONTAL PORTION OF SUCH WIRE MESH ENCLOSURE.

EXCEPTIONS:

- IN BUILDINGS NOT MORE THAN SIX STORIES IN HEIGHT, A SHAFT WAY IS NOT REQUIRED. INSTEAD OPENINGS IN THE FLOOR SHALL BE SOLIDLY PLANKED OVER WHILE NOT IN USE BY PLANKING NOT LESS THAN 2 INCHES (51 MM) IN THICKNESS, OR EQUIVALENT SOLID MATERIAL, AND LAID CLOSE.
- A SHAFT WAY IS NOT REQUIRED AT THE WORKING DECK. INSTEAD, OPENINGS IN THE WORKING DECK SHALL BE SOLIDLY PLANKED OVER WHILE NOT IN USE BY PLANKING NOT LESS THAN 2 INCHES (51 MM) IN THICKNESS, OR EQUIVALENT SOLID MATERIAL, AND LAID CLOSE.

3306.9.12.1.1 TEMPORARY REMOVAL OF PROTECTION.

WHEREVER SUCH PROTECTION REQUIRED BY SECTION 3306.9.12.1 HAS BEEN TEMPORARILY REMOVED TO PERMIT DEBRIS REMOVAL, THE FLOOR OPENING SHALL BE PROTECTED BY A GUARDRAIL SYSTEM THAT MEETS THE REQUIREMENTS OF SECTIONS 3308.7.1 THROUGH 3308.7.5. SUCH PROTECTION REQUIRED BY SECTION 3306.9.12.1 SHALL BE PROMPTLY REPLACED IN POSITION UPON THE CEASING OF SUCH WORK AT THE END OF EACH WORKDAY.

3306.9.12.2 PROTECTION OF WALL OPENINGS.

IN ANY BUILDINGS MORE THAN 25 FEET HIGH (7620 MM), ANY WINDOW OR OTHER EXTERIOR WALL OPENING THAT IS WITHIN 20 FEET (6096 MM) OF A FLOOR OPENING USED FOR THE PASSAGE OF DEBRIS FROM LEVELS ABOVE SHALL BE SOLIDLY BOARDED UP OR OTHERWISE SUBSTANTIALLY COVERED, UNLESS SUCH WINDOW OR OPENING IS SO LOCATED AS TO PRECLUDE THE POSSIBILITY OF ANY PERSON BEING INJURED BY MATERIALS THAT MAY FALL FROM SUCH WINDOW OR OPENING.

3306.11 COMPLETION OF DEMOLITION OPERATIONS.

ALL WORK REQUIRED FOR STRUCTURAL STABILITY AND PERMANENT WATERPROOFING OF ADJACENT BUILDINGS MUST BE COMPLETED PRIOR TO DEMOLITION SIGN-OFF.

OSHA 29 CFR 1926: SUBPART T-DEMOLITION

AUTHORITY: SECTION 107, CONTRACT WORK HOURS AND SAFETY STANDARDS ACT (CONSTRUCTION SAFETY ACT) (40 U.S.C. 333); SECTIONS 4, 6, 8, OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (29 U.S.C. 653, 655, 657); SECRETARY OF LABOR'S ORDER NO. 12-71 (36 FR 8754), 8-76 (41 FR 23059), OR 9-83 (48 FR 35736), AS APPLICABLE.

1926.850 PREPARATORY OPERATIONS.

- PRIOR TO PERMITTING EMPLOYEES TO START DEMOLITION OPERATIONS, AN ENGINEERING SURVEY SHALL BE MADE, BY A COMPETENT PERSON, OF THE STRUCTURE TO DETERMINE THE CONDITION OF THE FRAMING, FLOORS, AND WALLS, AND POSSIBILITY OF UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE. ANY ADJACENT STRUCTURE WHERE EMPLOYEES MAY BE EXPOSED SHALL ALSO BE SIMILARLY CHECKED. THE EMPLOYER SHALL HAVE IN WRITING EVIDENCE THAT SUCH A SURVEY HAS BEEN PERFORMED.
- WHEN EMPLOYEES ARE REQUIRED TO WORK WITHIN A STRUCTURE TO BE DEMOLISHED WHICH HAS BEEN DAMAGED BY FIRE, FLOOD, EXPLOSION, OR OTHER CAUSE, THE WALLS OR FLOOR SHALL BE SHORED OR BRACED.

- ALL ELECTRIC, GAS, WATER, STEAM, SEWER, AND OTHER SERVICE LINES SHALL BE SHUT OFF, CAPPED, OR OTHERWISE CONTROLLED, OUTSIDE THE BUILDING LINE BEFORE DEMOLITION WORK IS STARTED. IN EACH CASE, ANY UTILITY COMPANY WHICH IS INVOLVED SHALL BE NOTIFIED IN ADVANCE.
- IF IT IS NECESSARY TO MAINTAIN ANY POWER, WATER OR OTHER UTILITIES DURING DEMOLITION, SUCH LINES SHALL BE TEMPORARILY RELOCATED, AS NECESSARY, AND PROTECTED.
- IT SHALL ALSO BE DETERMINED IF ANY TYPE OF HAZARDOUS CHEMICALS, GASES, EXPLOSIVES, FLAMMABLE MATERIALS, OR SIMILARLY DANGEROUS SUBSTANCES HAVE BEEN USED IN ANY PIPES, TANKS, OR OTHER EQUIPMENT ON THIS PROPERTY. WHEN THE PRESENCE OF ANY SUCH SUBSTANCES IS APPARENT OR SUSPECTED, TESTING PURGING SHALL BE PERFORMED AND THE HAZARD ELIMINATED BEFORE DEMOLITION IS STARTED.
- WHERE A HAZARD EXISTS FROM FRAGMENTATION OF GLASS, SUCH HAZARDS SHALL BE REMOVED.
- WHERE A HAZARD EXISTS TO EMPLOYEES FALLING THROUGH WALL OPENINGS, THE OPENING SHALL BE PROTECTED TO A HEIGHT OF APPROXIMATELY 42 INCHES.
- WHEN DEBRIS IS DROPPED THROUGH HOLES IN THE FLOOR WITHOUT THE USE OF CHUTES, THE AREA INTO WHICH THE MATERIAL IS DROPPED SHALL BE COMPLETELY ENCLOSED WITH BARRICADES NOT LESS THAN 42 INCHES HIGH AND NOT LESS THAN 6 FEET BACK FROM THE PROJECTED EDGE OF THE OPENING ABOVE. SIGNS, WARNING OF THE HAZARD OF FALLING MATERIALS, SHALL BE POSTED AT EACH LEVEL. REMOVAL SHALL NOT BE PERMITTED IN THIS LOWER AREA UNTIL DEBRIS HANDLING CEASES ABOVE.
- ALL FLOOR OPENINGS, NOT USED AS MATERIAL DROPS, SHALL BE COVERED OVER WITH MATERIAL SUBSTANTIAL ENOUGH TO SUPPORT THE WEIGHT OF ANY LOAD WHICH MAY BE IMPOSED. SUCH MATERIAL SHALL BE PROPERLY SECURED TO PREVENT ITS ACCIDENTAL MOVEMENT.
- EXCEPT FOR THE CUTTING OF HOLES IN FLOORS FOR CHUTES, HOLES THROUGH WHICH TO DROP MATERIALS, PREPARATION OF STORAGE SPACE, AND SIMILAR NECESSARY PREPARATORY WORK, THE DEMOLITION OF EXTERIOR WALLS AND FLOOR CONSTRUCTION SHALL BEGIN AT THE TOP OF THE STRUCTURE AND PROCEED DOWNWARD. EACH STORY OF EXTERIOR WALL AND FLOOR CONSTRUCTION SHALL BE REMOVED AND DROPPED INTO STORAGE SPACE BEFORE COMMENCING THE REMOVAL OF EXTERIOR WALLS AND FLOORS IN THE STORY NEXT BELOW.
- EMPLOYEE ENTRANCES TO MULTISTORY STRUCTURES BEING DEMOLISHED SHALL BE COMPLETELY PROTECTED BY SIDEWALK SHEDS OF CANOPIES, OR BOTH, PROVIDING PROTECTION FROM THE FACE OF THE BUILDING FOR A MINIMUM OF 8 FEET. ALL SUCH CANOPIES SHALL BE AT LEAST 12 FEET WIDER THAN THE BUILDING ENTRANCES OR OPENINGS (1 FOOT WIDER ON EACH SIDE THEREOF), AND SHALL BE CAPABLE OF SUSTAINING A LOAD OF 150 POUNDS PER SQUARE FOOT.

1926.851 STAIRS, PASSAGEWAYS, AND LADDERS.

- ONLY THOSE STAIRWAYS, PASSAGEWAYS, AND LADDERS DESIGNATED AS MEANS OF ACCESS TO THE STRUCTURE OF A BUILDING, SHALL BE USED. OTHER ACCESS WAYS SHALL BE ENTIRELY CLOSED AT ALL TIMES.
- ALL STAIRS, PASSAGEWAYS, LADDERS AND INCIDENTAL EQUIPMENT THERETO, WHICH ARE COVERED BY THIS SECTION, SHALL BE PERIODICALLY INSPECTED AND MAINTAINED IN A CLEAN SAFE CONDITION.
- IN A MULTISTORY BUILDING, WHEN A STAIRWELL IS BEING USED, IT SHALL BE PROPERLY ILLUMINATED BY EITHER NATURAL OR ARTIFICIAL MEANS, AND COMPLETELY AND SUBSTANTIALLY COVERED OVER AT A POINT ON WHICH WORK IS BEING PERFORMED, AND ACCESS TO THE FLOOR WHERE THE WORK IS IN PROGRESS SHALL BE THROUGH A PROPERLY LIGHTED, PROTECTED, AND SEPARATE PASSAGEWAY.

1926.852 CHUTES.

- NO MATERIAL SHALL BE DROPPED TO ANY POINT LYING OUTSIDE THE EXTERIOR WALLS OF THE STRUCTURE UNLESS THE AREA IS EFFECTIVELY PROTECTED.
- ALL MATERIALS CHUTES, OR SECTIONS THEREOF, AT AN ANGLE OF MORE THAN 45° FROM THE HORIZONTAL, SHALL BE ENTIRELY ENCLOSED, EXCEPT FOR OPENINGS EQUIPPED WITH CLOSURES AT OR ABOUT FLOOR LEVEL FOR THE INSERTION OF MATERIALS. THE OPENINGS SHALL NOT EXCEED 48 INCHES IN HEIGHT MEASURED ALONG THE WALL OF THE CHUTE. AT ALL STORIES BELOW THE TOP FLOOR, SUCH OPENINGS SHALL BE KEPT CLOSED WHEN NOT IN USE.
- A SUBSTANTIAL GATE SHALL BE INSTALLED IN EACH CHUTE AT OR NEAR THE DISCHARGE END. A COMPETENT EMPLOYEE SHALL BE ASSIGNED TO CONTROL THE OPERATION OF THE GATE, AND THE BACKING AND LOADING OF TRUCKS.
- WHEN OPERATIONS ARE NOT IN PROGRESS, THE AREA SURROUNDING THE DISCHARGE END OF A CHUTE SHALL BE SECURELY CLOSED OFF.
- ANY CHUTE OPENING, INTO WHICH WORKMEN DUMP DEBRIS, SHALL BE PROTECTED BY A SUBSTANTIAL GUARDRAIL APPROXIMATELY 42 INCHES ABOVE THE FLOOR OR OTHER SURFACE ON WHICH THE MEN STAND TO DUMP THE MATERIAL. ANY SPACE BETWEEN THE CHUTE AND THE EDGE OF OPENINGS IN THE FLOORS THROUGH WHICH IT PASSES SHALL BE SOLIDLY COVERED OVER.
- WHERE THE MATERIAL IS DUMPED FROM MECHANICAL EQUIPMENT OR WHEELBARROWS, A SECURELY ATTACHED TOEBOARD OR BUMPER, NOT LESS THAN 4 INCHES THICK AND 6 INCHES HIGH, SHALL BE PROVIDED AT EACH CHUTE OPENING.
- CHUTES SHALL BE DESIGNED AND CONSTRUCTED OF SUCH STRENGTH AS TO ELIMINATE FAILURE DUE TO IMPACT OF MATERIALS OR DEBRIS LOADED THEREIN.

1926.853 REMOVAL OF MATERIALS THROUGH FLOOR OPENINGS.

ANY OPENINGS CUT IN A FLOOR FOR THE DISPOSAL OF MATERIALS SHALL BE NO LARGER IN SIZE THAN 25 PERCENT OF THE AGGREGATE OF THE TOTAL FLOOR AREA, UNLESS THE LATERAL SUPPORTS OF THE REMOVED FLOORING REMAIN IN PLACE. FLOORS WEAKENED OR OTHERWISE MADE UNSAFE BY DEMOLITION OPERATIONS SHALL BE SHORED TO CARRY SAFELY THE INTENDED IMPOSED LOAD FROM DEMOLITION OPERATIONS.

1926.855 MANUAL REMOVAL OF FLOORS.

- OPENINGS CUT IN A FLOOR SHALL EXTEND THE FULL SPAN OF THE ARCH BETWEEN SUPPORTS.
- BEFORE DEMOLISHING ANY FLOOR ARCH, DEBRIS AND OTHER MATERIAL SHALL BE REMOVED FROM SUCH ARCH AND OTHER ADJACENT FLOOR AREA. PLANKS NOT LESS THAN 2 INCHES BY 10 INCHES IN CROSS SECTION, FULL SIZE UNDRRESSED, SHALL BE PROVIDED FOR, AND SHALL BE USED BY EMPLOYEES TO STAND ON WHILE BREAKING DOWN FLOOR ARCHES BETWEEN BEAMS. SUCH PLANKS SHALL BE SO LOCATED AS TO PROVIDE A SAFE SUPPORT FOR THE WORKMEN SHOULD THE ARCH BETWEEN THE BEAMS COLLAPSE. THE OPEN SPACE BETWEEN PLANKS SHALL NOT EXCEED 16 INCHES.
- SAFE WALKWAYS, NOT LESS THAN 18 INCHES WIDE, FORMED OF PLANKS NOT LESS THAN 2 INCHES THICK IF WOOD, OR OF EQUIVALENT STRENGTH OF METAL, SHALL BE PROVIDED AND USED BY WORKMEN WHEN NECESSARY TO ENABLE THEM TO REACH ANY POINT WITHOUT WALKING UPON EXPOSED BEAMS.
- STRINGERS OF AMPLE STRENGTH SHALL BE INSTALLED TO SUPPORT THE FLOORING PLANKS, AND THE ENDS OF SUCH STRINGERS SHALL BE SUPPORTED BY FLOOR BEAMS OR GIRDERS, AND NOT BY FLOOR ARCHES ALONE.
- PLANKS SHALL BE LAID TOGETHER OVER SOLID BEARINGS WITH THE ENDS OVERLAPPING AT LEAST 1 FOOT.
- WHEN FLOOR ARCHES ARE BEING REMOVED, EMPLOYEES SHALL NOT BE ALLOWED IN THE AREA DIRECTLY UNDERNEATH, AND SUCH AN AREA SHALL BE BARRICADED TO PREVENT ACCESS TO IT.
- DEMOLITION OF FLOOR ARCHES SHALL NOT BE STARTED UNTIL THEY, AND THE SURROUNDING FLOOR AREA FOR A DISTANCE OF 20 FEET, HAVE BEEN CLEARED OF DEBRIS AND ANY OTHER UNNECESSARY MATERIALS.

1926.856 REMOVAL OF WALLS, FLOORS, AND MATERIAL WITH EQUIPMENT.

- MECHANICAL EQUIPMENT SHALL NOT BE USED ON FLOORS OR WORKING SURFACES UNLESS SUCH FLOORS OR SURFACES ARE OF SUFFICIENT STRENGTH TO SUPPORT THE IMPOSED LOAD.
- FLOOR OPENINGS SHALL HAVE CURBS OR STOP-LOGS TO PREVENT EQUIPMENT FROM RUNNING OVER THE EDGE.
- MECHANICAL EQUIPMENT USED SHALL MEET THE REQUIREMENTS SPECIFIED IN SUBPARTS N AND O IN THIS PART.

1926.857 STORAGE.

- THE STORAGE OF WASTE MATERIAL AND DEBRIS ON ANY FLOOR SHALL NOT EXCEED THE ALLOWABLE FLOOR LOADS.
- IN BUILDINGS HAVING WOODEN FLOOR CONSTRUCTION, THE FLOORING BOARDS MAY BE REMOVED FROM NOT MORE THAN ONE FLOOR ABOVE GRADE TO PROVIDE STORAGE SPACE FOR DEBRIS, PROVIDED FALLING MATERIAL IS NOT PERMITTED TO ENDANGER THE STABILITY OF THE STRUCTURE.

- WHEN WOOD FLOOR BEAMS SERVE TO BRACE INTERIOR WALLS OR FREE-STANDING EXTERIOR WALLS, SUCH BEAMS SHALL BE LEFT IN PLACE UNTIL OTHER EQUIVALENT SUPPORT CAN BE INSTALLED TO REPLACE THEM.
- FLOOR ARCHES, TO AN ELEVATION OF NOT MORE THAN 25 FEET ABOVE GRADE, MAY BE REMOVED TO PROVIDE STORAGE AREA FOR DEBRIS; PROVIDED, THAT SUCH REMOVAL DOES NOT ENDANGER THE STABILITY OF THE STRUCTURE.
- STORAGE SPACE INTO WHICH MATERIAL IS DUMPED SHALL BE BLOCKED OFF, EXCEPT FOR OPENINGS NECESSARY FOR THE REMOVAL OF MATERIAL. SUCH OPENINGS SHALL BE KEPT CLOSED AT ALL TIMES WHEN MATERIAL IS NOT BEING REMOVED.

1926.859 (G)

- DURING DEMOLITION, CONTINUING INSPECTIONS BY A COMPETENT PERSON SHALL BE MADE AS THE WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM WEAKENED OR DETERIORATED FLOORS, OR WALLS, OR LOOSENED MATERIAL. NO EMPLOYEE SHALL BE PERMITTED TO WORK WHERE SUCH HAZARDS EXIST UNTIL THEY ARE CORRECTED BY SHORING, BRACING, OR OTHER EFFECTIVE MEANS.

GENERAL DEMOLITION NOTES

1.0 DEMOLITION MECHANICAL EQUIPMENT USE NOTES

- THE MACHINES SHALL NOT BE OPERATED IN A MANNER THAT A WHEEL, OUTRIGGER, OR TRACK IS UPLIFTED, OR IN A MANNER THAT IMPARTS EXTREME DYNAMIC LOADING ON THE SLAB.
- IF MORE THAN ONE MACHINE IS USED ON A FLOOR, THE MACHINES SHALL BE SEPARATED BY AT LEAST 1 BAY OR (20 FEET), WHICH EVER IS LARGER.
- FOLLOW ALL MANUFACTURER'S SPECIFICATIONS AND SAFETY REQUIREMENTS. THE MACHINES SHALL NOT BE MODIFIED WITHOUT THE CONSENT OF THE MANUFACTURER. USE ONLY ATTACHMENTS APPROVED BY THE MANUFACTURER.
- NEVER EXCEED THE RATED OPERATING CAPACITY OF THE MACHINE.
- ONLY QUALIFIED INDIVIDUALS SHALL OPERATE THE EQUIPMENT.
- WHEN CHOPPING CONCRETE, THE MACHINES AND PERSONNEL ON THE (2) FLOORS BELOW SHALL NOT TRAVEL OR OCCUPY THE AREA WITHIN 20 FEET OF THE MACHINE ABOVE. CONTROLLED ACCESS SHALL BE MAINTAINED IN THE BUILDING WHEN CHOPPING IS IN PROGRESS.
- THE MACHINES SHALL NOT BE OPERATED ON A CANTILEVERED PORTION OF SLAB OR A DISTRESSED SLAB OR IN ANY OTHER CONDITIONS WHERE THE FLOOR SYSTEM APPEARS TO BE WEAKENED OR COMPROMISED.
- THE CONTRACTOR'S COMPETENT PERSON SHALL PERIODICALLY (MINIMUM DAILY) INSPECT THE CONDITION OF THE FLOORS THAT THE EQUIPMENT IS OPERATING ON. THE EQUIPMENT SHALL NOT TRAVEL OR OPERATE ON ANY WEAKENED FLOOR AREAS OR QUESTIONABLE AREAS. PROMPTLY INFORM THE ENGINEER IF THESE CONDITIONS ARE OBSERVED.

2.0 DURING DEMOLITION OF THE WALLS AND FLOOR SLABS, THESE ELEMENTS SHALL NOT BE LOOSENED OR PERMITTED TO DROP IN SUCH MASSES AS TO WEAKEN THE FLOORS OR AFFECT THE STABILITY OF THE STRUCTURAL SUPPORTS.

3.0 DURING DEMOLITION, CONTINUING INSPECTIONS BY A COMPETENT PERSON DESIGNATED BY THE CONTRACTOR SHALL BE MADE AS THE WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM WEAKENED OR DETERIORATED FLOORS, OR WALLS OR LOOSENED MATERIAL.

NO SITE PERSONNEL SHALL BE PERMITTED TO TRAVEL OR WORK IN AN AREA WHERE SUCH HAZARDS EXIST UNTIL THEY ARE CORRECTED BY SHORING, BRACING, OR OTHER EFFECTIVE MEANS.

CONTACT THE ENGINEER IF NEEDED TO DETERMINE THE SHORING, BRACING, OR CORRECTIVE MEASURES.

4.0 ALL LEADING EDGES ABOVE 6' IN HEIGHT SHALL BE PROTECTED WITH STANDARD GUARDRAILS OR MEN SHALL TIE-OFF WITH AN OSHA COMPLIANT PERSONAL FALL ARREST SYSTEM FASTENED TO OSHA COMPLIANT TIE-OFF POINTS WHEN TRAVELING OR WORKING WITHIN 6' OF A LEADING EDGE.

5.0 EVERY FLOOR HOLE IN WHICH PERSONS CAN ACCIDENTALLY WALK SHALL BE GUARDED BY EITHER :

- A STANDARD GUARDRAIL ON ALL EXPOSED SIDES, OR
- A FLOOR HOLE COVER OF ADEQUATE STRENGTH AND CONSTRUCTION.

6.0 PRIOR TO DROPPING ANY DEBRIS IN THE ELEVATOR SHAFTS, A COMPETENT PERSON SHALL INFORM ALL SITE PERSONNEL TO STAY A MINIMUM OF 20' FROM THE SHAFT ON ALL FLOORS WHILE DEBRIS IS BEING DROPPED.

7.0 FIRE PREVENTION DURING DEMOLITION

- COMBUSTIBLE DEBRIS SHALL NOT BE PERMITTED TO ACCUMULATE, AND SHALL BE REMOVED FROM THE SITE AT REASONABLE INTERVALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK CITY FIRE CODE.
- FIREFIGHTING EQUIPMENT, FIRE FIGHTING ACCESS AT THE CONSTRUCTION OR DEMOLITION SITE, AND THE CONDUCT OF ALL CONSTRUCTION OR DEMOLITION OPERATIONS AFFECTING FIRE PREVENTION AND FIRE FIGHTING SHALL COMPLY WITH THE NEW YORK CITY FIRE CODE AND THE PROVISIONS OF SECTIONS 3303.7.1 THRU 3303.7.5.

7.3 A WATER SUPPLY FOR FIRE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE NEW YORK CITY FIRE CODE.

7.4 FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH THE NEW YORK CITY FIRE CODE.


7.5 SMOKING SHALL BE PROHIBITED AT ALL CONSTRUCTION AND DEMOLITION SITES. NO SMOKING SIGNS SHALL BE POSTED AT THE SITE IN ACCORDANCE WITH THE PROVISIONS OF THE NEW YORK CITY FIRE CODE.

8.0 FIRE PREVENTION DURING TORCH OPERATIONS

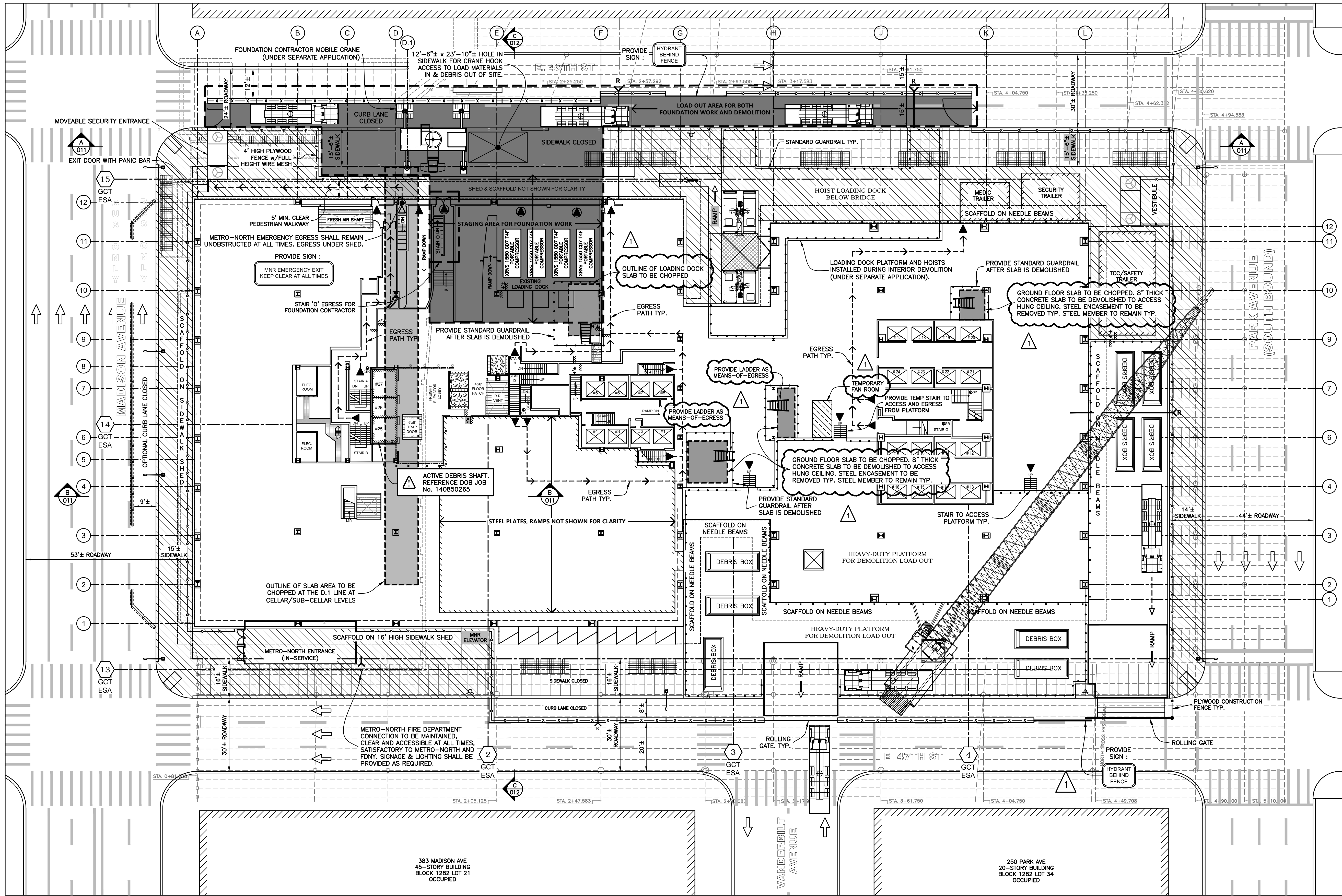
- ALL HOT WORKS SHALL COMPLY WITH NYC FIRE CODE AND NFPA REQUIREMENTS.
- ALL PERSONS PERFORMING HOT WORK POSSESS VALID CERTIFICATES OF FITNESS.
- A FIRE WATCH SHALL BE MAINTAINED DURING HOT WORK OPERATIONS. THE FIRE WATCH SHALL CONTINUE FOR A MINIMUM OF 30 MINUTES AFTER THE CONCLUSION OF THE WORK.

9.0 MAINTAIN (2) UNOBSTRUCTED MEANS OF EGRESS AT ALL TIMES.

10.0 SUBSTANTIVE CHANGES GOVERNED BY FIELD CONDITIONS OR UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ENGINEER.

No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO</b> <b>&amp; ASSOCIATES</b> <b>CONSULTING ENGINEERS, P.C.</b>			
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CLIENT			
JOHN CIVETTA & SONS, INC. 1123 BRONX RIVER AVE, BRONX, NY 10472 PH: (718) 589-9000			
PROJECT			
PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
ZONING INFORMATION			
BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	
TITLE			
DEMOLITION NOTES			
SEAL & SIGNATURE		DRAWING BY: KC DATE: 03/20/2020	
		PROJECT NO: 18211.03.00	
		ENGINEER: JS	
		SCALE: AS NOTED	
		CHK BY: JS	
		DWG NO:	
		DM-003.00	
3/20/20		V:2018\18211.02.00 3 OF 18	





SAFETY ZONE PLAN - GROUND FLOOR  
Scale: 1" = 20'

- NOTES:**
- 1.0 THE BUILDING WILL BE UNDER FULL DEMOLITION BY A SEPARATE CONTRACTOR DURING THE SCOPE OF THE FOUNDATION CONTRACTOR'S WORK. SEE DM JOB No. 123656640.
- SEE SHADED AREA FOR THE FOUNDATION CONTRACTOR'S WORK AREA AT THE GROUND FLOOR LEVEL.
- A MOBILE CRANE AT GRADE AND ACCESS HOLE TO SUB-CELLAR 3 WILL BE USED TO MOVE EQUIPMENT AND DEBRIS BETWEEN STREET LEVEL AND SUB-CELLAR 3. SEE CN 902/19.
- THE TOWER CRANE, HOIST LOADING DOCK, HEAVY-DUTY PLATFORM AND OTHER EQUIPMENT SHOWN OUTSIDE THE FOUNDATION CONTRACTOR'S WORK AREA ARE ASSOCIATED WITH THE DEMOLITION CONTRACTOR'S WORK. SEE DM-002 FOR ASSOCIATED PERMITS.
- 2.0 EGRESS
- 2.1 FOR ACCESS TO THE CELLAR AND SUB-CELLARS, STAIR O IS DEDICATED AS THE MAIN EGRESS FOR THE FOUNDATION CONTRACTOR.
- 2.2 STAIRS A AND B IS DEDICATED AS THE MAIN EGRESS FOR THE DEMOLITION CONTRACTOR. TAKE NOTE THAT THE ELEVATOR SHAFTS ADJACENT TO STAIR A AND B IS USED AS A DEBRIS SHAFT ABOVE THE GROUND FLOOR.
- 2.3 STAIRS A, B, & O CAN BE USED BY ALL PERSONNEL UNDER BOTH THE DEMOLITION CONTRACTOR AND THE FOUNDATION CONTRACTOR AS EMERGENCY EGRESS.
- 2.4 SIGNAGE SHALL BE PROVIDED AT STAIRS A, B, AND O TO IDENTIFY WHICH STAIR IS DEDICATED TO WHICH CONTRACTOR FOR THEIR PRIMARY EGRESS.
- 2.5 METRO-NORTH HAS AN EMERGENCY EXIT STAIR ADJACENT TO STAIR O. THE EMERGENCY EXIT SHALL REMAIN FREE OF OBSTRUCTIONS AT ALL TIMES.
- 3.0 THE FOUNDATION CONTRACTOR WILL UTILIZE THE EXISTING LOADING DOCK AT THE GROUND FLOOR TO STAGE EQUIPMENT AND MATERIALS WHILE THE BUILDING IS UNDER DEMOLITION BY THE DEMOLITION CONTRACTOR (DOB JOB No. 123656640).
- A MINIMUM OF TWO VACANT FLOORS SHALL BE MAINTAINED TO SEPARATE SIMULTANEOUS DEMOLITION AND FOUNDATION WORK ACTIVITIES.
- WHEN THE DEMOLITION CONTRACTOR MOVES THEIR EQUIPMENT DOWN TO THE 4TH FLOOR OF THE PODIUM (i.e. SKID-STEERS TO CLEAN UP DEBRIS), THE FOUNDATION CONTRACTOR SHALL CEASE SIMULTANEOUS ACTIVITIES WITHIN THE FOOTPRINT OF THE BUILDING. USE OF STAIR O AND THE EXISTING LOADING DOCK SHALL BE PROHIBITED DURING THE PODIUM DEMOLITION ACTIVITIES AT THE 4TH FLOOR AND BELOW.
- THE FOUNDATION CONTRACTOR MAY USE STAIR O AND THE EXISTING LOADING DOCK WITHIN THE FOOTPRINT OF THE BUILDING AT TIMES WHEN THE DEMOLITION CONTRACTOR IS NOT WORKING.
- THE CONTRACTORS SHALL COORDINATE THE WORK HOURS UNDER THIS OPTION.
- 4.0 THE FOUNDATION CONTRACTOR WILL UTILIZE THE SIDEWALK AND CURB LANE FOR MATERIAL HANDLING AND DEBRIS LOAD OUT. SEE MOBILE CRANE LOCATION AND ACCESS HOLE.
- 5.0 DAILY MEETINGS WILL BE HELD BETWEEN THE DEMOLITION AND FOUNDATION SUPERINTENDENTS TO ENSURE COORDINATION BETWEEN DEMOLITION AND FOUNDATION WORK.

1	03/20/20	ADD GROUND FLOOR OPENINGS	KC
No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> CONSULTING ENGINEERS, P.C. 266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563 TEL: (516) 791-2600 FAX: (516) 791-5425 COPYRIGHT DESIGN NOT TO BE LENT, COPIED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT.			
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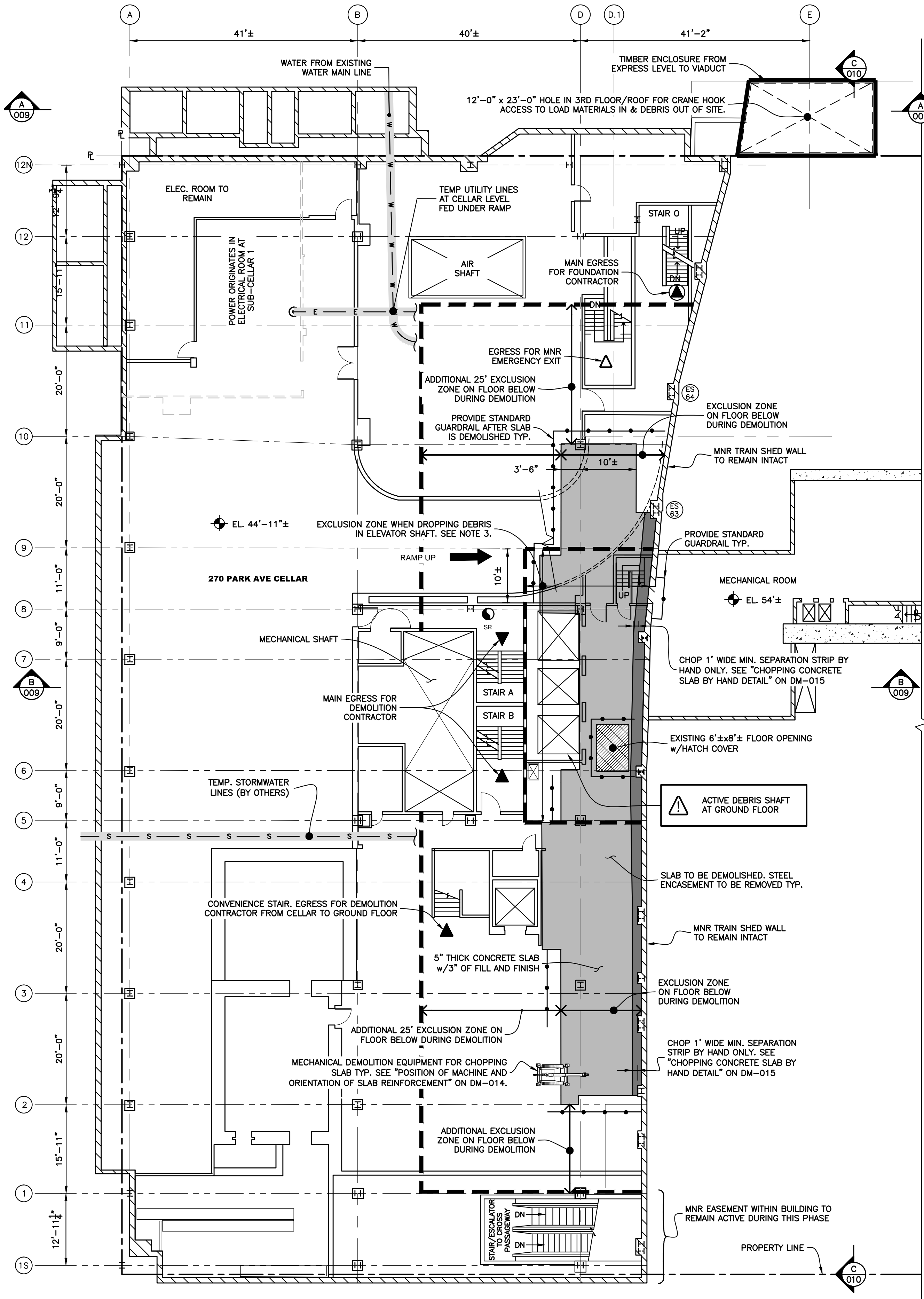
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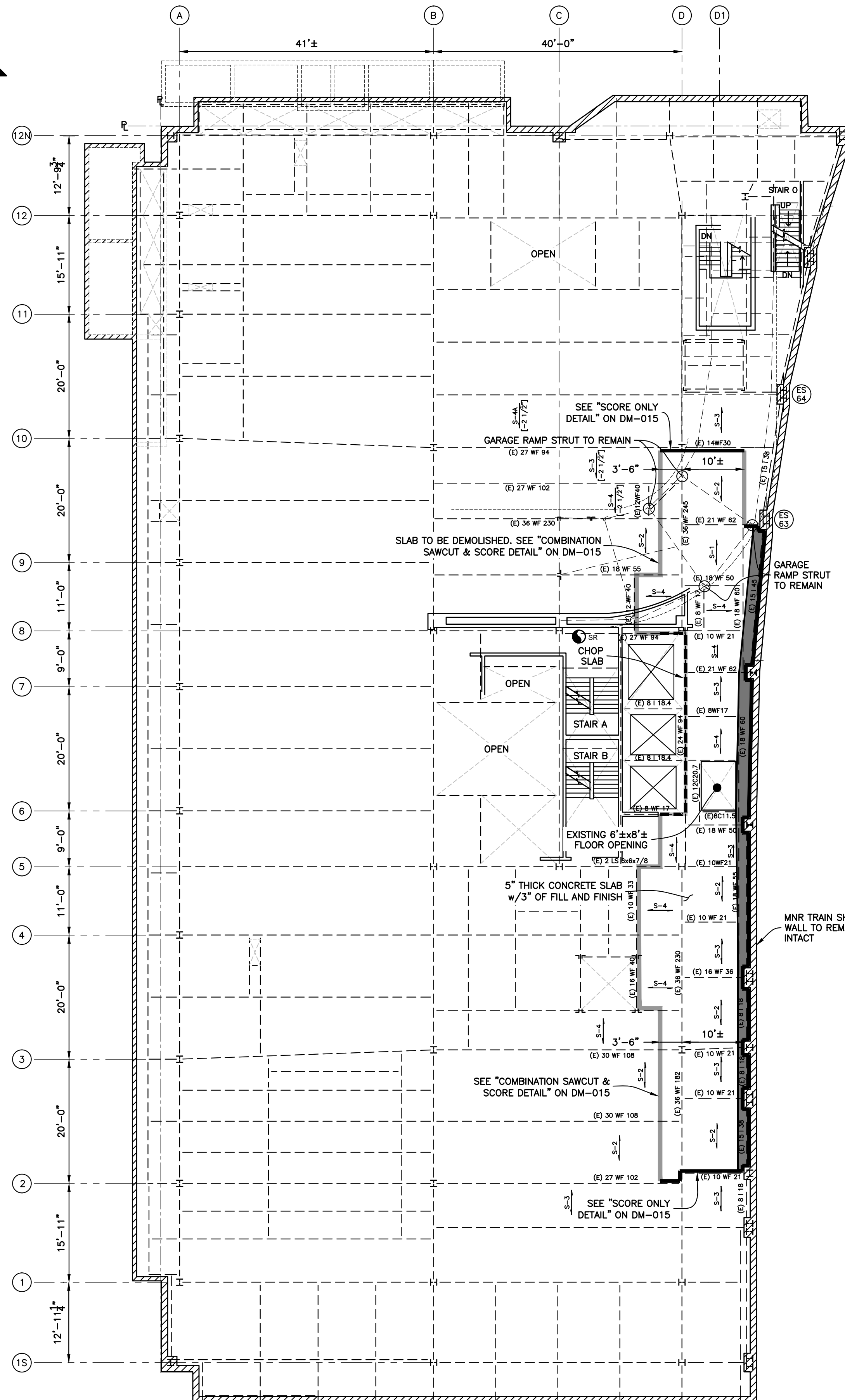
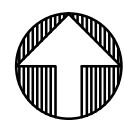
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	ENGINEER: JS
	SCALE: AS NOTED
	CHK BY: JS
DWG NO: DM-004.01	
3/20/20	

LEGEND	
	FOUNDATION CONTRACTOR WORK AREA
	AREAS UNDER CONSIDERATION
	EGRESS FOR FOUNDATION CONTRACTOR
	EGRESS FOR DEMOLITION CONTRACTOR
	EGRESS FOR MNR EMERGENCY EXIT
SEE DM-002 FOR FULL LEGEND.	





CELLAR PLAN  
Scale : N.T.S.



CELLAR - FRAMING PLAN  
Scale : N.T.S.



#### NOTES :

- 1.0 REFER TO DM-001 AND DM-003 FOR GENERAL NOTES FOR ADDITIONAL INFORMATION REGARDING SAFEGUARDS DURING DEMOLITION.
- 2.0 DEMOLITION OF CELLAR SLABS :
  - 2.1 PRIOR TO DEMOLITION, REVIEW DEMOLITION MECHANICAL EQUIPMENT USE NOTES ON DM-003.
  - 2.2 MARK OUT CUT LINES FOR AREAS WHERE SLAB WILL BE REMOVED. SCORE OR SAWCUT SLAB TO DEFINE BOUNDARY OF DEMOLITION. SEE DM-015 FOR DETAILS.

IN CASES WHERE CONTINUOUS SLAB REINFORCEMENT EXTENDS FROM PORTION OF SLAB TO REMAIN TO PORTION OF SLAB TO BE REMOVED, WELD REBAR TO STEEL BEAM TO MAINTAIN ANCHORAGE PRIOR TO DEMOLISHING SLAB.

THE SPAN OF SLAB SHOWN HEREIN IS BASED ON THE ORIGINAL STRUCTURAL DRAWINGS. IF IT IS FOUND THAT THE ORIENTATION OF THE REINFORCEMENT DIFFERS FROM WHAT IS SHOWN, REFER TO THE DETAIL ADDRESSING "CUTLINE LOCATION RELATIVE TO REINFORCEMENT ORIENTATION" ON DM-015 TO ADJUST THE LOCATION OF THE CUTLINE. CONTACT THE ENGINEER AS NEEDED.
  - 2.3 VACATE AREA AT SUB-CELLAR 1 DIRECTLY BELOW THE PORTION OF SLAB TO BE DEMOLISHED PLUS AN ADDITIONAL 25' IN ALL DIRECTIONS AS AN EXCLUSION ZONE FOR PROTECTION AGAINST FALLING DEBRIS. NO INDIVIDUAL SHALL BE PERMITTED IN THE EXCLUSION ZONE WHILE DEMOLITION IS IN PROGRESS.

CHOP 1' WIDE MIN. STRIP FROM 2-LINE TO BETWEEN 9 AND 10-LINES BY HAND ALONG THE WEST SIDE OF THE MNR TRAIN SHED WALL TO CREATE A SEPARATION BETWEEN THE SLAB AND WALL. CHOP SEPARATION STRIP PRIOR TO COMMENCING WITH MECHANICAL DEMOLITION.

MEN SHALL TIE OFF AND STAND ON PLANKS WHEN CHOPPING SLAB. SEE DM-015 FOR DETAIL.

AFTER THE SEPARATION IS MADE, THE REMAINDER OF THE SLAB AND ENCASEMENT CAN BE DONE USING MECHANICAL EQUIPMENT.
  - 2.4 CHOP CONCRETE SLAB AND BEAM ENCASEMENT USING MECHANICAL EQUIPMENT. SEE DM-014 FOR "POSITION OF MACHINE AND ORIENTATION OF SLAB REINFORCEMENT".

THE STARTING POINT AND DIRECTION OF DEMOLITION IS AT THE CONTRACTOR'S DISCRETION.

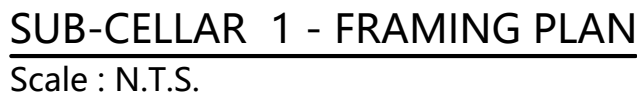
THE CONCRETE DEMOLITION SHALL NOT COMPROMISE THE INTEGRITY OF THE STEEL FRAMING BRACING THE BUILDING COLUMNS AND SUPPORTING THE GARAGE RAMP. FLANGES AND WEBS SHALL NOT BE PERFORMED OR OTHERWISE DAMAGED BY THE DEMOLITION EQUIPMENT.

DEBRIS SHALL BE ADEQUATELY WETTED TO PREVENT DUST ACCUMULATION.
  - 2.5 CONCRETE DEBRIS IS PERMITTED TO DROP TO SUB-CELLAR 1. PERIODICALLY REMOVE DEBRIS FROM SUB-CELLAR 1 AND DISPATCH TO SUB-CELLAR 3 VIA DEBRIS CHUTE (UNDER SEPARATE APPLICATION). SEE "DEBRIS CHUTE DETAIL" ON DM-014.

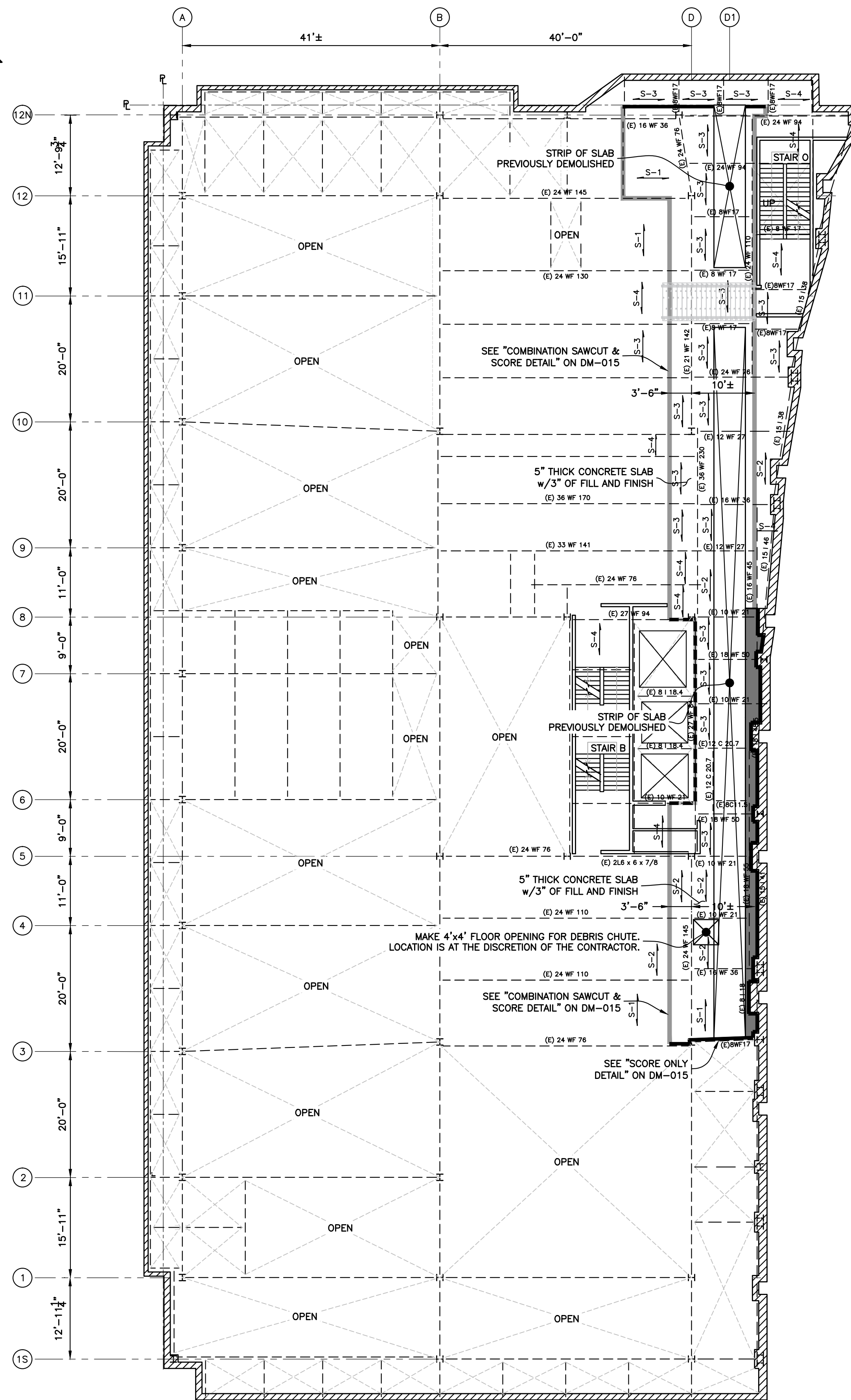
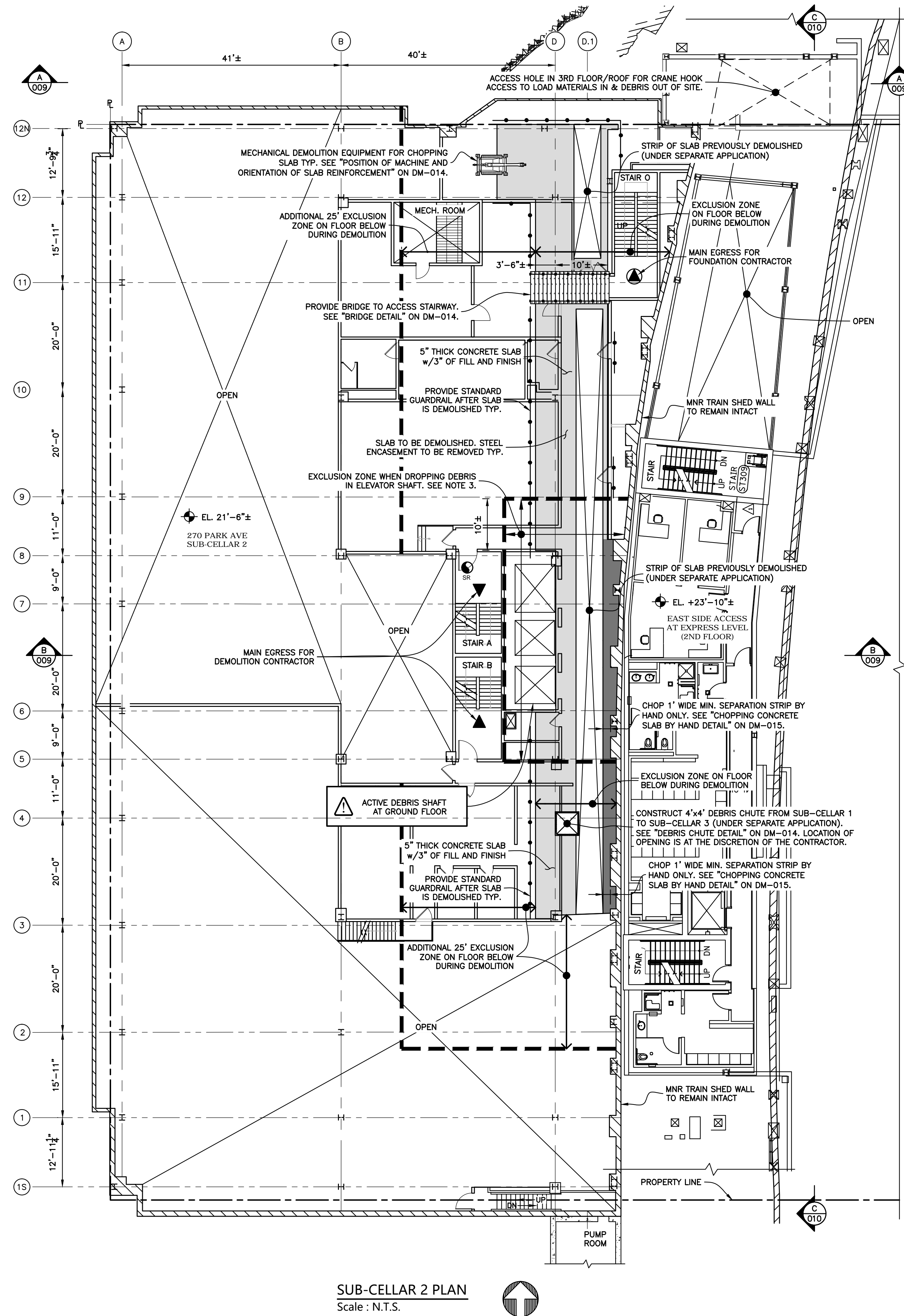
AT THE END OF EACH WORK DAY, REMOVE DEBRIS ACCUMULATION.
  - 2.6 INSTALL GUARDRAILS AS LEADING EDGES ARE CREATED BY THE DEMOLITION OF THE SLABS.
- 3.0 AN EXCLUSION ZONE SHALL BE ENFORCED IN THE AREA AS SHOWN IN PLAN BETWEEN GRIDLINES 5 AND 9 WHEN THE DEMOLITION CONTRACTOR IS DUMPING DEBRIS IN THE ELEVATOR SHAFT.

LEGEND	
	SLAB TO BE DEMOLISHED
	1' WIDE MIN. SEPARATION STRIP TO BE CHOPPED BY HAND
	STEEL BEAMS TYP.
	EXCLUSION ZONE
	SCORE SLAB ONLY TYP. SEE DETAIL ON DM-015.
	CHOP SLAB TYP.
	SPAN OF SLAB. ORIENTATION OF REINFORCEMENT
	EGRESS FOR FOUNDATION CONTRACTOR
	EGRESS FOR DEMOLITION CONTRACTOR
	EGRESS FOR MNR EMERGENCY EXIT

No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> CONSULTING ENGINEERS, P.C. 266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563 TEL: (516) 791-2600 FAX: (516) 791-5425 COPYRIGHT DESIGN NOT TO BE LENT, COPIED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT. THIS OFFICE DISCLAIMS ANY RESPONSIBILITY FOR DRAWINGS OR OTHER DOCUMENTS RELATED TO THIS PROJECT UNLESS THEY BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER OF THIS OFFICE. THE NEW YORK STATE EDUCATION LAW PROHIBITS ANY ALTERATIONS TO, OR DELETIONS FROM, THIS DRAWING EXCEPT AS MAY BE MADE BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO WILL BEAR THE RESPONSIBILITY FOR SUCH CHANGE.			
CLIENT JOHN CIVETTA & SONS, INC. 1123 BRONX RIVER AVE, BRONX, NY 10472 PH: (718) 589-9000			
PROJECT PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
ZONING INFORMATION BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	
TITLE CELLAR PLAN			
SEAL & SIGNATURE 	DRAWING BY: KC DATE: 03/20/2020 PROJECT NO: 18211.03.00 ENGINEER: JS SCALE: AS NOTED CHK BY: JS DWG NO: DM-005.00		
3/20/20		V:2018/18211.03.00 5 OF 18	







## NOTES :

- REFER TO DM-001 AND DM-003 FOR GENERAL NOTES FOR ADDITIONAL INFORMATION REGARDING SAFEGUARDS DURING DEMOLITION.
- DEMOLITION OF SUB-CELLAR 2 SLAB :**
  - PRIOR TO DEMOLITION, REVIEW DEMOLITION MECHANICAL EQUIPMENT USE NOTES ON DM-003.
  - MARK OUT CUT LINES FOR AREAS WHERE SLAB WILL BE REMOVED. SCORE OR SAWCUT SLAB TO DEFINE BOUNDARY OF DEMOLITION. SEE DM-015 FOR DETAILS.

IN CASES WHERE CONTINUOUS SLAB REINFORCEMENT EXTENDS FROM PORTION OF SLAB TO REMAIN TO PORTION OF SLAB TO BE REMOVED, WELD REBAR TO STEEL BEAM TO MAINTAIN ANCHORAGE PRIOR TO DEMOLISHING SLAB.

THE SPAN OF SLAB SHOWN HEREIN IS BASED ON THE ORIGINAL STRUCTURAL DRAWINGS. IF IT IS FOUND THAT THE ORIENTATION OF THE REINFORCEMENT DIFFERS FROM WHAT IS SHOWN, REFER TO THE DETAIL ADDRESSING "CUTLINE LOCATION RELATIVE TO REINFORCEMENT ORIENTATION" ON DM-015 TO ADJUST THE LOCATION OF THE CUTLINE. CONTACT THE ENGINEER AS NEEDED.
  - VACATE AREA AT SUB-CELLAR 3 DIRECTLY BELOW THE PORTION OF SLAB TO BE DEMOLISHED PLUS AN ADDITIONAL 25' IN ALL DIRECTIONS AS AN EXCLUSION ZONE FOR PROTECTION AGAINST FALLING DEBRIS. NO INDIVIDUAL SHALL BE PERMITTED IN THE EXCLUSION ZONE WHILE DEMOLITION IS IN PROGRESS.

CHOP 1' WIDE MIN. STRIP FROM 3--LINE TO 8--LINE BY HAND ALONG THE WEST SIDE OF THE MNR TRAIN SHED WALL TO CREATE A SEPARATION BETWEEN THE SLAB AND WALL. CHOP SEPARATION STRIP PRIOR TO COMMENCING WITH MECHANICAL DEMOLITION.

MEN SHALL TIE OFF AND STAND ON PLANKS WHEN CHOPPING SLAB. SEE DM-015 FOR DETAIL.

AFTER THE SEPARATION IS MADE, THE REMAINDER OF THE SLAB AND ENCASEMENT CAN BE DONE USING MECHANICAL EQUIPMENT.
  - CHOP CONCRETE SLAB AND BEAM ENCASEMENT USING MECHANICAL EQUIPMENT. SEE DM-014 FOR "POSITION OF MACHINE AND ORIENTATION OF SLAB REINFORCEMENT".

THE STARTING POINT AND DIRECTION OF DEMOLITION IS AT THE CONTRACTOR'S DISCRETION.

THE CONCRETE DEMOLITION SHALL NOT COMPROMISE THE INTEGRITY OF THE STEEL FRAMING BRACING THE BUILDING COLUMNS AND SUPPORTING THE GARAGE RAMP. FLANGES AND WEBS SHALL NOT BE PERFORMED OR OTHERWISE DAMAGED BY THE DEMOLITION EQUIPMENT.

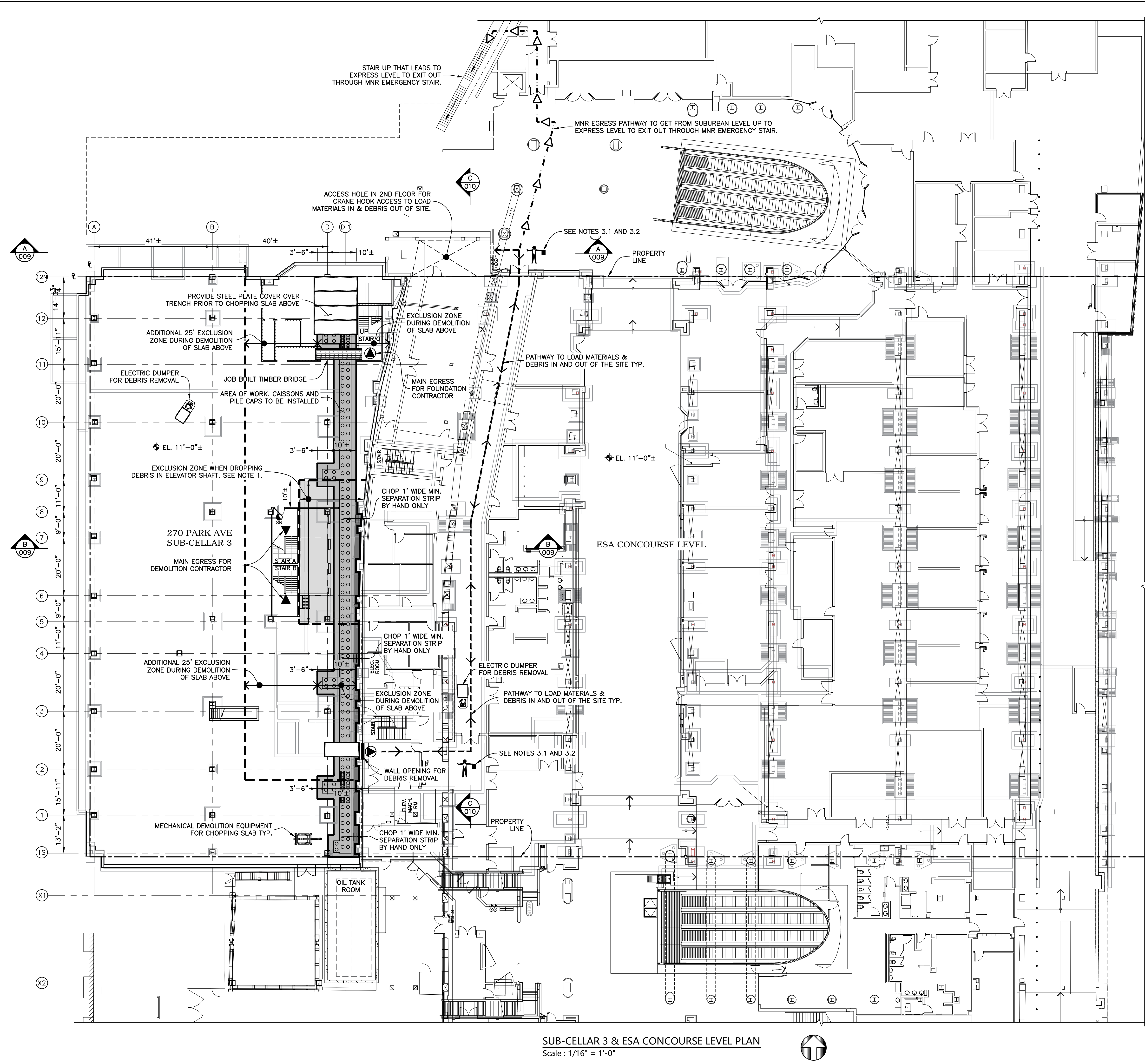
DEBRIS SHALL BE ADEQUATELY WETTED TO PREVENT DUST ACCUMULATION.
  - CONCRETE DEBRIS IS PERMITTED TO DROP TO SUB-CELLAR 3. PERIODICALLY REMOVE DEBRIS FROM SUB-CELLAR 3 AND TRANSPORT TO ACCESS HOLE FOR REMOVAL.

AT THE END OF EACH WORK DAY, REMOVE DEBRIS ACCUMULATION.
  - INSTALL GUARDRAILS AS LEADING EDGES ARE CREATED BY THE DEMOLITION OF THE SLABS.
  - AN EXCLUSION ZONE SHALL BE ENFORCED IN THE AREA AS SHOWN IN PLAN BETWEEN GRIDLINES 5 AND 9 WHEN THE DEMOLITION CONTRACTOR IS DUMPING DEBRIS IN THE ELEVATOR SHAFT.

LEGEND	
	SLAB TO BE DEMOLISHED
	1' WIDE MIN. SEPARATION STRIP TO BE CHOPPED BY HAND
	STEEL BEAMS TYP.
	EXCLUSION ZONE
	SCORE SLAB ONLY TYP. SEE DETAIL ON DM-015.
	SAWCUT & SCORE SLAB TYP. SEE DETAIL ON DM-015.
	CHOP SLAB TYP.
	SPAN OF SLAB. ORIENTATION OF REINFORCEMENT
	EGRESS FOR FOUNDATION CONTRACTOR
	EGRESS FOR DEMOLITION CONTRACTOR
	EGRESS FOR MNR EMERGENCY EXIT

No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> CONSULTING ENGINEERS, P.C. 266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563 TEL: (516) 791-2600 FAX: (516) 791-5425 COPYRIGHT DESIGN NOT TO BE LENT, COPIED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT. THIS OFFICE DISCLAIMS ANY RESPONSIBILITY FOR DRAWINGS OR OTHER DOCUMENTS RELATED TO THIS PROJECT UNLESS THEY BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER OF THIS OFFICE. THE NEW YORK STATE EDUCATION LAW PROHIBITS ANY ALTERATIONS TO, OR DELETIONS FROM, THIS DRAWING EXCEPT AS MAY BE MADE BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO WILL BEAR THE RESPONSIBILITY FOR SUCH CHANGE.			
CLIENT			
JOHN CIVETTA & SONS, INC. 1123 BRONX RIVER AVE, BRONX, NY 10472 PH: (718) 589-9000			
PROJECT			
PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
ZONING INFORMATION			
BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	
TITLE			
SUB-CELLAR 2 PLAN			
SEAL & SIGNATURE	DRAWING BY: KC	DATE: 03/20/2020	
	PROJECT NO: 18211.03.00		
	ENGINEER: JS		
	SCALE: AS NOTED		
	CHK BY: JS		
DWG NO:			DM-007.00
3/20/20			V:2018\18211.03.00 7 OF 18





LEGEND

FOUNDATION CONTRACTOR WORK AREA

DEMOLITION CONTRACTOR WORK AREA.  
SEE DOB JOB No. 123656640.

OUTLINE OF EXCAVATION BELOW SUB-CELLAR 3

EGRESS FOR FOUNDATION CONTRACTOR

EGRESS FOR DEMOLITION CONTRACTOR

EGRESS FOR MNR EMERGENCY EXIT

FOUNDATION CONTRACTOR'S PATHWAY TO LOAD  
MATERIALS & DEBRIS IN AND OUT OF THE SITE

MNR EGRESS PATHWAY TO GET FROM SUBURBAN LEVEL UP TO  
EXPRESS LEVEL TO EXIT OUT THROUGH MNR EMERGENCY STAIR

SEE DM-002 FOR FULL LEGEND.

- NOTES :
- 1.0 AN EXCLUSION ZONE SHALL BE ENFORCED IN THE 12'± WIDE STRIP BETWEEN GRIDLINES 5 AND 9 WHEN THE DEMOLITION CONTRACTOR IS DUMPING DEBRIS IN THE ELEVATOR SHAFT.

2.0 EGRESS

2.1 FOR ACCESS TO THE CELLAR AND SUB-CELLARS, STAIR O IS DEDICATED AS THE MAIN EGRESS FOR THE FOUNDATION CONTRACTOR.

2.2 STAIRS A AND B IS DEDICATED AS THE MAIN EGRESS FOR THE DEMOLITION CONTRACTOR. TAKE NOTE THAT THE ELEVATOR SHAFTS ADJACENT TO STAIR A AND B IS USED AS A DEBRIS SHAFT ABOVE THE GROUND FLOOR.

2.3 STAIRS A, B, & O CAN BE USED BY ALL PERSONNEL UNDER BOTH THE DEMOLITION CONTRACTOR AND THE FOUNDATION CONTRACTOR AS EMERGENCY EGRESS.

2.4 SIGNAGE SHALL BE PROVIDED AT STAIRS A, B, AND O TO IDENTIFY WHICH STAIR IS DEDICATED TO WHICH CONTRACTOR FOR THEIR PRIMARY EGRESS.

2.5 METRO-NORTH HAS AN EMERGENCY EXIT STAIR ADJACENT TO STAIR O. THE EMERGENCY EXIT SHALL REMAIN FREE OF OBSTRUCTIONS AT ALL TIMES.

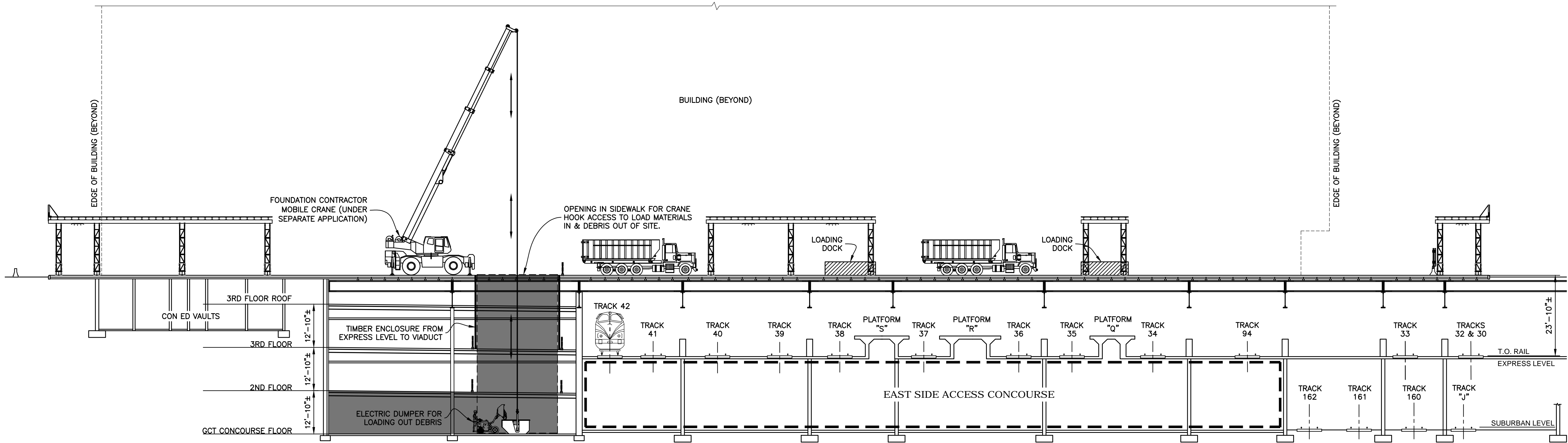
3.0 ACCESS FROM EAST SIDE ACCESS AND METRO NORTH HAS BEEN GRANTED FOR THIS CONSTRUCTION PROJECT.

3.1 ON-GOING COORDINATION AND COMMUNICATIONS SHALL BE MAINTAINED BETWEEN EAST SIDE ACCESS CONTRACTORS AND THE FOUNDATION CONTRACTOR FOR SIMULTANEOUS WORK AT THE CONCOURSE LEVEL.

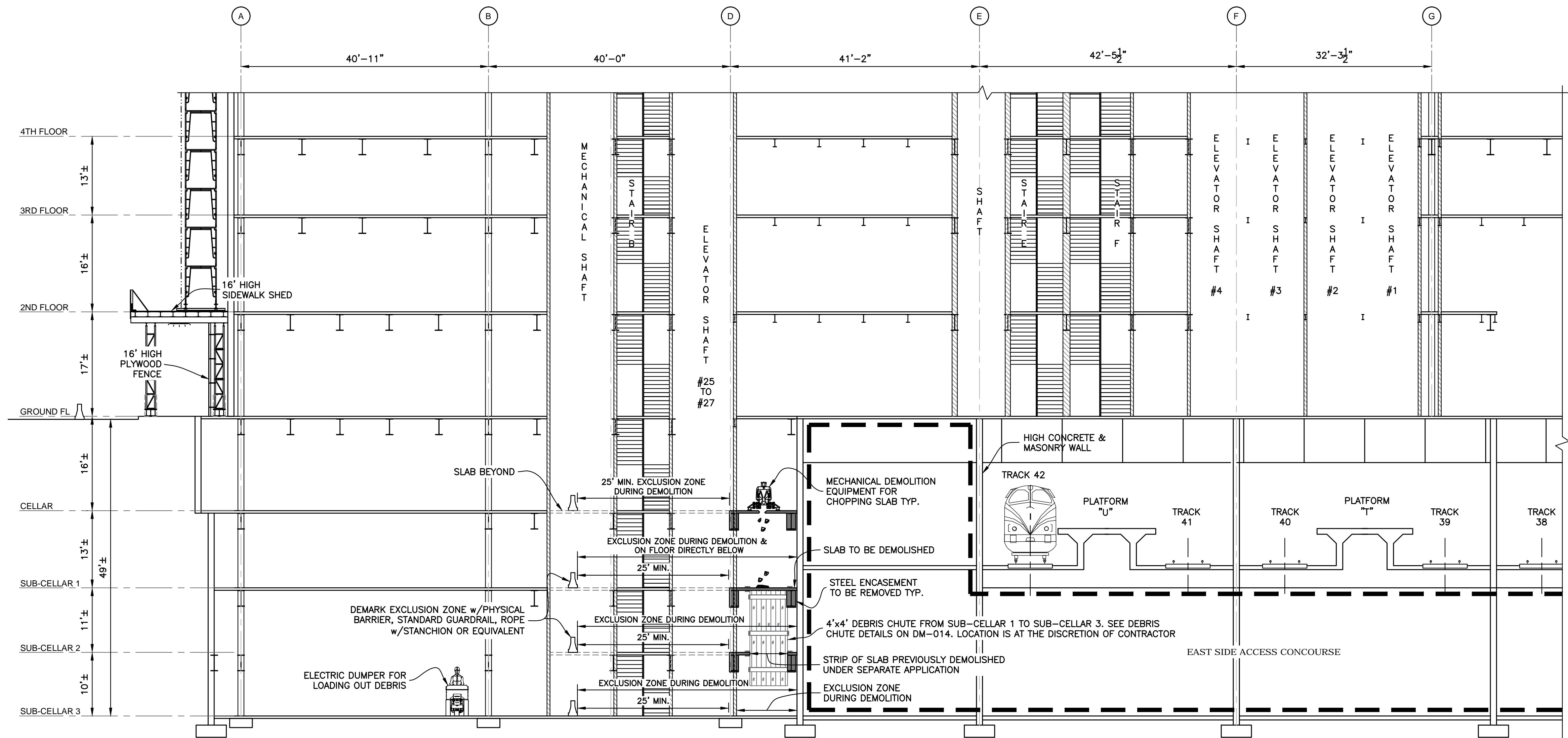
3.2 THE FOUNDATION CONTRACTOR SHALL PROVIDE FLAGMAN AS NEEDED WHEN WORKING IN THE EAST SIDE ACCESS SPACE TO MONITOR AND SAFEGUARD ONSITE ACTIVITIES AT THE ACCESS HOLE AND PATHWAY THROUGH THE EAST SIDE ACCESS WORK AREA.

No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> CONSULTING ENGINEERS, P.C.			
266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563 TEL: (516) 791-2600 FAX: (516) 791-5425 COPYRIGHT DESIGN NOT TO BE LENT, COPIED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT.			
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CLIENT			
JOHN CIVETTA & SONS, INC. 1123 BRONX RIVER AVE, BRONX, NY 10472 PH: (718) 589-9000			
PROJECT			
PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
ZONING INFORMATION			
BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	
TITLE			
SUB-CELLAR 3 PLAN			
SEAL & SIGNATURE		DRAWING BY: KC DATE: 03/20/2020	
		PROJECT NO: 18211.03.00	
		ENGINEER: JS	
		SCALE: AS NOTED	
		CHK BY: JS	
		DWG NO:	
		DM-008.00	
3/20/20		V:2018\18211.03.00 8 OF 18	






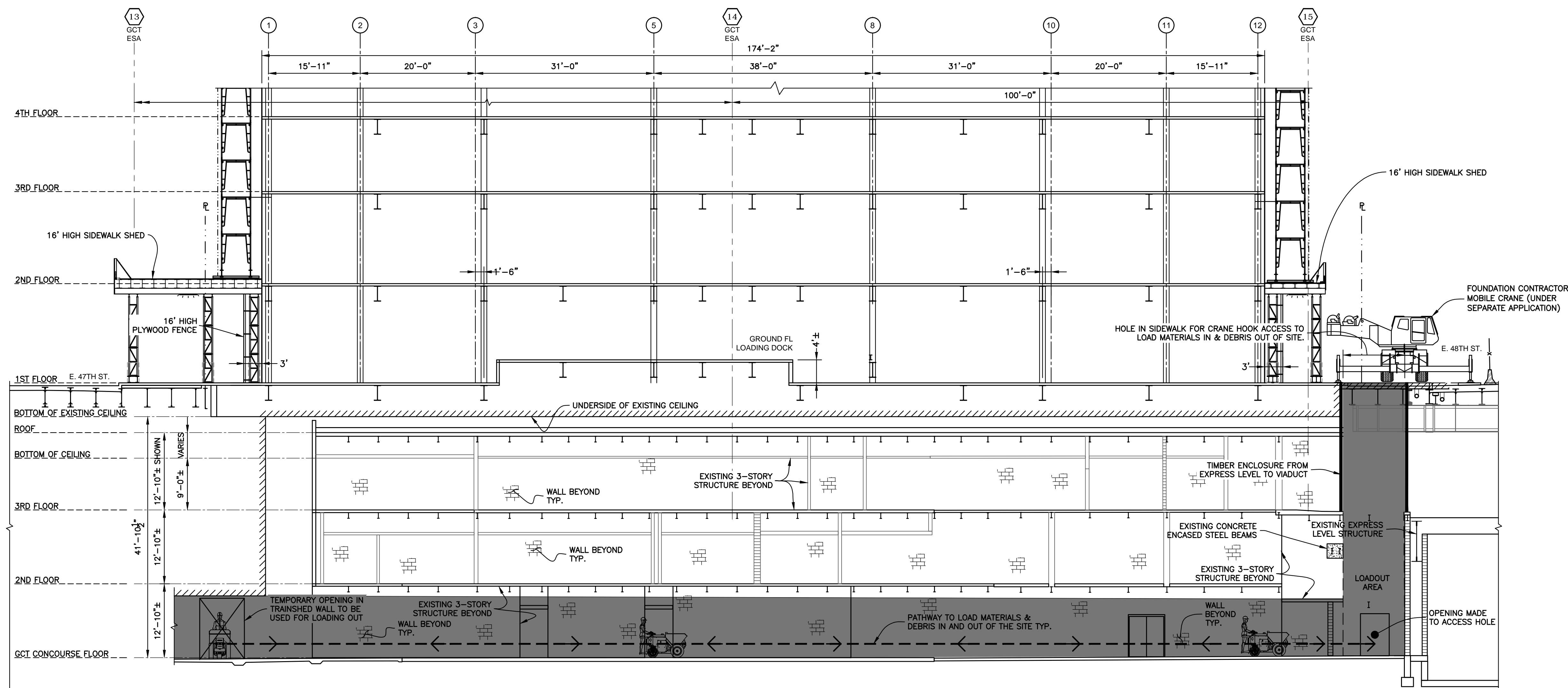
SECTION A-A  
Scale : 1/8" = 1'-0"




SECTION B-B  
Scale : 3/32" = 1'-0"

No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> CONSULTING ENGINEERS, P.C. 266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563 TEL: (516) 791-2600 FAX: (516) 791-5425 COPYRIGHT DESIGN NOT TO BE LENT, COPIED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT. THIS OFFICE DISCLAIMS ANY RESPONSIBILITY FOR DRAWINGS OR OTHER DOCUMENTS RELATED TO THIS PROJECT UNLESS THEY BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER OF THIS OFFICE. THE NEW YORK STATE EDUCATION LAW PROHIBITS ANY ALTERATIONS TO, OR DELETIONS FROM, THIS DRAWING EXCEPT AS MAY BE MADE BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO WILL BEAR THE RESPONSIBILITY FOR SUCH CHANGE.			
CLIENT JOHN CIVETTA & SONS, INC. 1123 BRONX RIVER AVE, BRONX, NY 10472 PH: (718) 589-9000			
PROJECT PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
ZONING INFORMATION BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	
TITLE SECTIONS A-A & B-B			
SEAL & SIGNATURE 		DRAWING BY: KC DATE: 03/20/2020 PROJECT NO: 18211.03.00 ENGINEER: JS SCALE: AS NOTED CHK BY: JS DWG NO: DM-009.00	
3/20/20		V:2018\18211.03.00 9 OF 18	

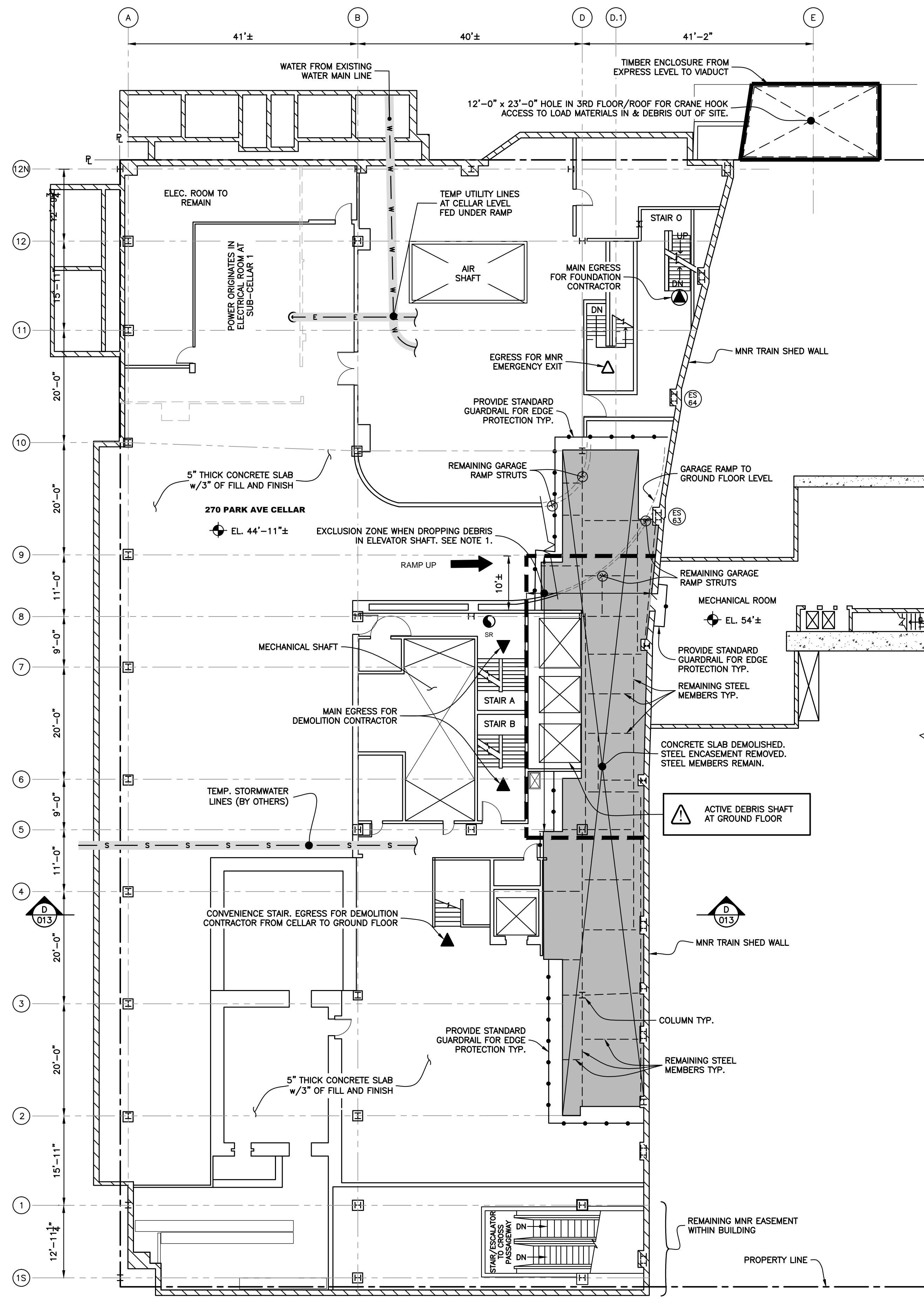




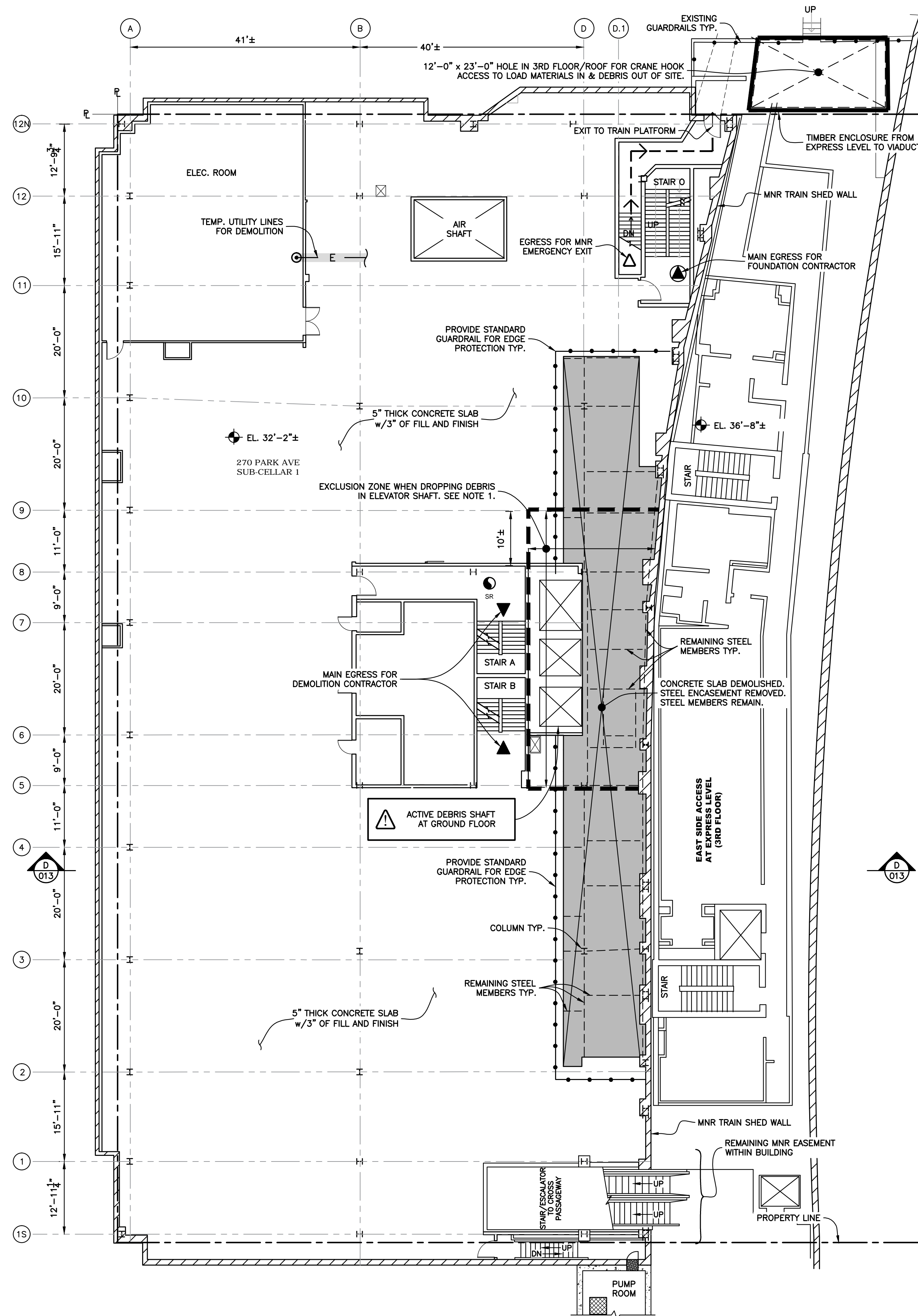
SECTION C-C  
Scale : 3/32" = 1'-0"

No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> CONSULTING ENGINEERS, P.C.			
266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563 TEL: (516) 791-2600 FAX: (516) 791-5425 COPYRIGHT DESIGN NOT TO BE LENT, COPIED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT. THIS OFFICE DISCLAIMS ANY RESPONSIBILITY FOR DRAWINGS OR OTHER DOCUMENTS RELATED TO THIS PROJECT UNLESS THEY BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER OF THIS OFFICE. THE NEW YORK STATE EDUCATION LAW PROHIBITS ANY ALTERATIONS TO, OR DELETIONS FROM, THIS DRAWING EXCEPT AS MAY BE MADE BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO WILL BEAR THE RESPONSIBILITY FOR SUCH CHANGE.			
CLIENT JOHN CIVETTA & SONS, INC. 1123 BRONX RIVER AVE, BRONX, NY 10472 PH: (718) 589-9000			
PROJECT PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
ZONING INFORMATION BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	
TITLE SECTION C-C			
SEAL & SIGNATURE 		DRAWING BY: KC DATE: 03/20/2020 PROJECT NO: 18211.03.00 ENGINEER: JS SCALE: AS NOTED CHK BY: JS DWG NO: DM-010.00	
3/20/20		V:2018\18211.03.00 10 OF 18	





FINAL SITE CONDITION - CELLAR PLAN  
Scale : N.T.S.



FINAL SITE CONDITION - SUB-CELLAR 1 PLAN  
Scale : N.T.S.



LEGEND	
	PORTION OF CONCRETE SLAB REMOVED
	EGRESS FOR FOUNDATION CONTRACTOR
	EGRESS FOR DEMOLITION CONTRACTOR
	EGRESS FOR MNR EMERGENCY EXIT
	STEEL BEAMS TO REMAIN TYP.
	EXCLUSION ZONE

NOTES :

- 1.0 AN EXCLUSION ZONE SHALL BE ENFORCED IN THE AREA AS SHOWN IN PLAN BETWEEN GRIDLINES 5 AND 9 WHEN THE DEMOLITION CONTRACTOR IS DUMPING DEBRIS IN THE ELEVATOR SHAFT.

No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> CONSULTING ENGINEERS, P.C. 266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563 TEL: (516) 791-2600 FAX: (516) 791-5425 COPYRIGHT DESIGN NOT TO BE LENT, COPIED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT. THIS OFFICE DISCLAIMS ANY RESPONSIBILITY FOR DRAWINGS OR OTHER DOCUMENTS RELATED TO THIS PROJECT UNLESS THEY BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER OF THIS OFFICE. THE NEW YORK STATE EDUCATION LAW PROHIBITS ANY ALTERATIONS TO, OR DELETIONS FROM, THIS DRAWING EXCEPT AS MAY BE MADE BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO WILL BEAR THE RESPONSIBILITY FOR SUCH CHANGE.			

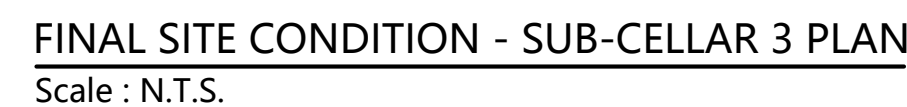
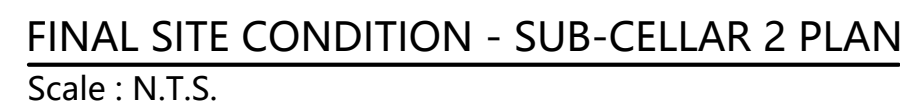
CLIENT	JOHN CIVETTA & SONS, INC. 1123 BRONX RIVER AVE, BRONX, NY 10472 PH: (718) 589-9000
PROJECT	PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY
ZONING INFORMATION	BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421

PLACE STICKER HERE	EXAMINER'S STAMP HERE
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TITLE	FINAL SITE CONDITION CELLAR & SUB-CELLAR 1 PLANS
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SEAL & SIGNATURE 	DRAWING BY: KC DATE: 03/20/2020 PROJECT NO: 18211.03.00 ENGINEER: JS SCALE: AS NOTED CHK BY: JS DWG NO: DM-011.00
3/20/20	V:2018\18211.03.00 II OF 18





**NOTES :**

- 1.0 AN EXCLUSION ZONE SHALL BE ENFORCED IN THE AREA AS SHOWN IN PLAN BETWEEN GRIDLINES 5 AND 9 WHEN THE DEMOLITION CONTRACTOR IS DUMPING DEBRIS IN THE ELEVATOR SHAFT.
- 2.0 SEAL EXISTING DOOR SHUT. PROVIDE SIGN "SHAFTWAY BEYOND".

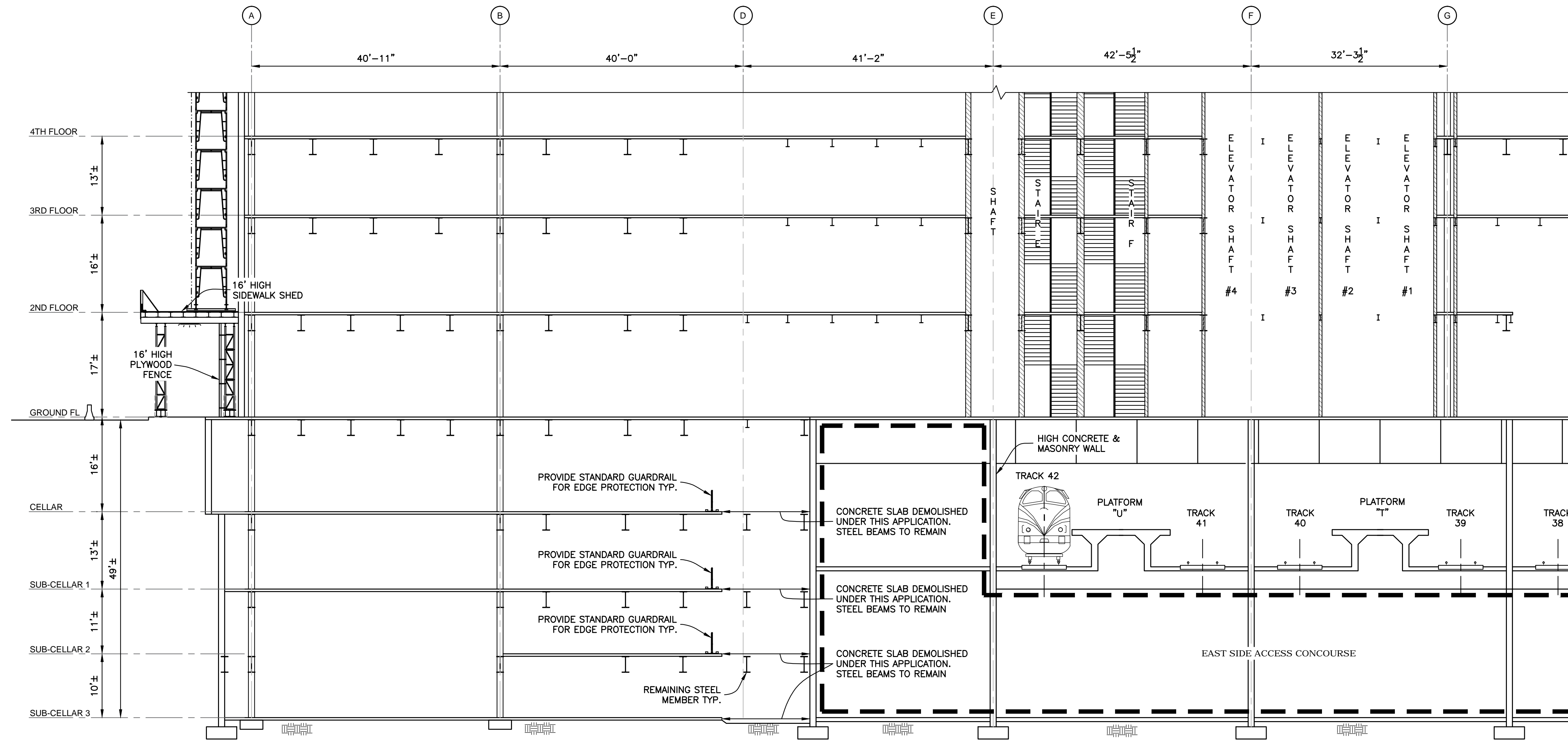
REAL & SIGNATURE




3/20/20

**DRAWING BY:** KC      **DATE:** 03/20/2020  
**PROJECT NO:** 18211.03.00  
**ENGINEER:** JS  
**SCALE:** AS NOTED  
**CHK BY:** JS  
**DWG NO:**  
**DM-012.00**



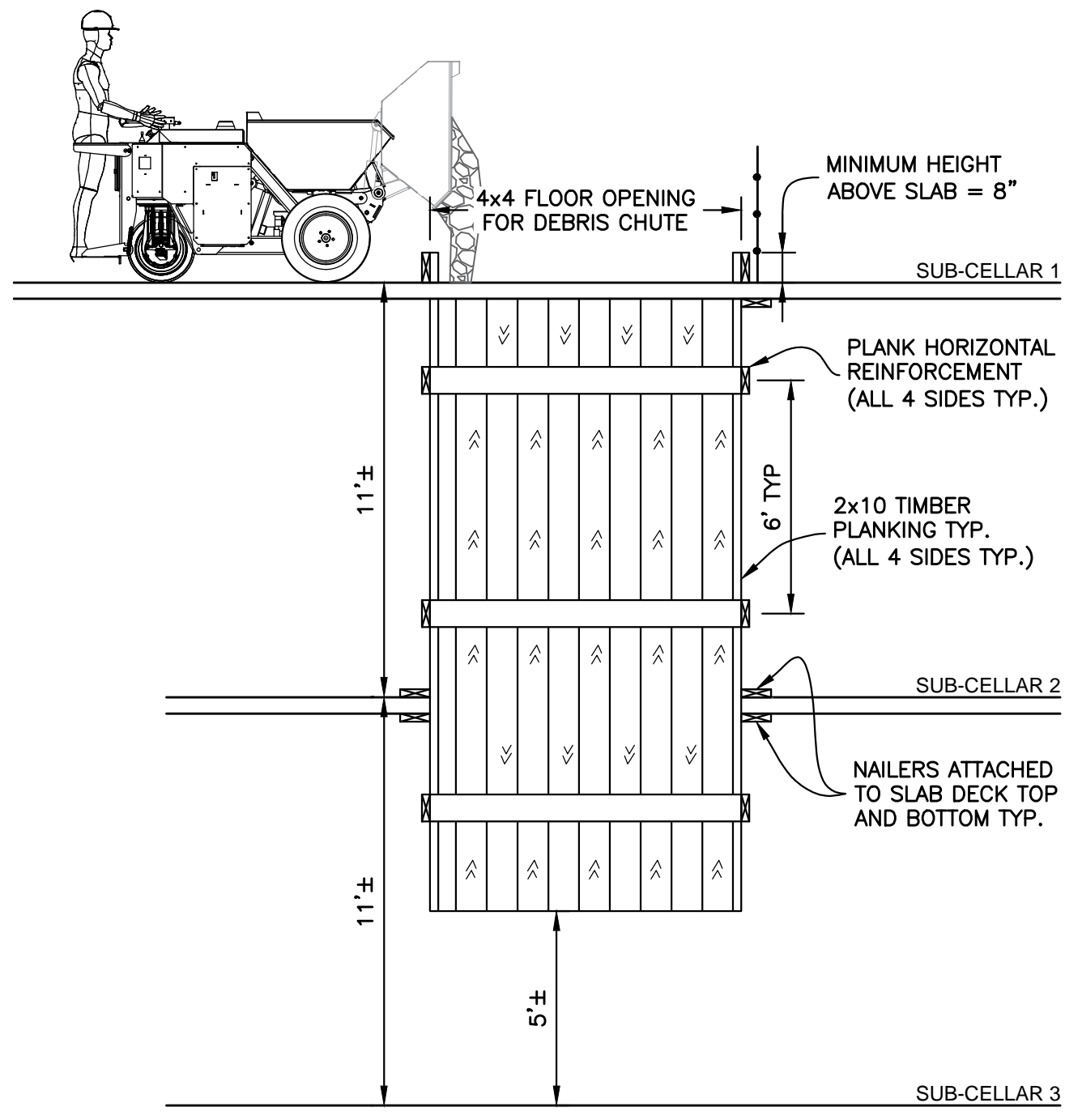


SECTION D-D  
Scale : 3/32" = 1'-0"

No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> CONSULTING ENGINEERS, P.C.			
266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563 TEL: (516) 791-2600 FAX: (516) 791-5425 COPYRIGHT DESIGN NOT TO BE LENT, COPIED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT.			
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CLIENT JOHN CIVETTA & SONS, INC. 1123 BRONX RIVER AVE, BRONX, NY 10472 PH: (718) 589-9000			
PROJECT PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
ZONING INFORMATION BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	
TITLE FINAL SITE CONDITION SECTION D-D			
SEAL & SIGNATURE 		DRAWING BY: KC DATE: 03/20/2020 PROJECT NO: 18211.03.00 ENGINEER: JS SCALE: AS NOTED CHK BY: JS DWG NO: DM-013.00	
3/20/20		V:2018\18211.03.00 13 OF 18	

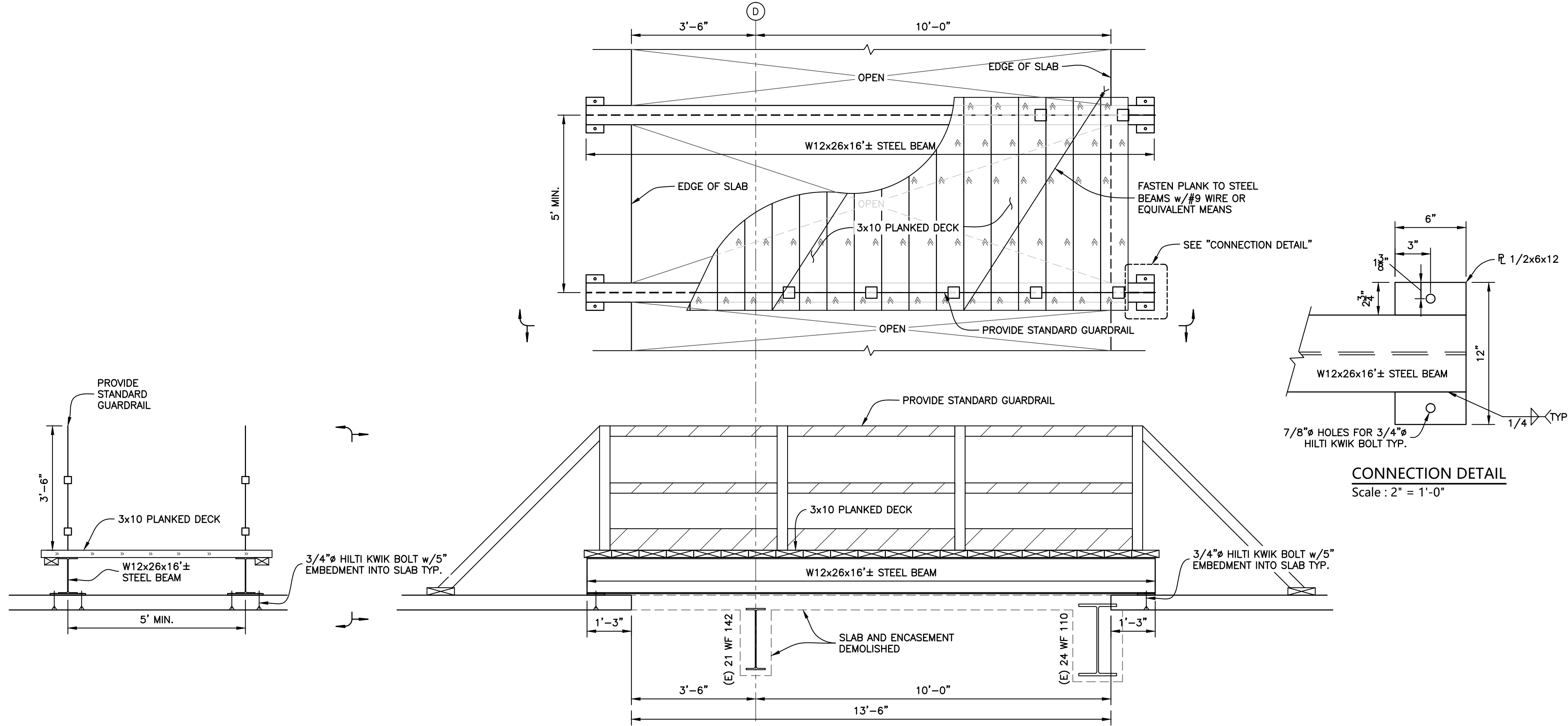


DEBRIS CHUTE DETAIL



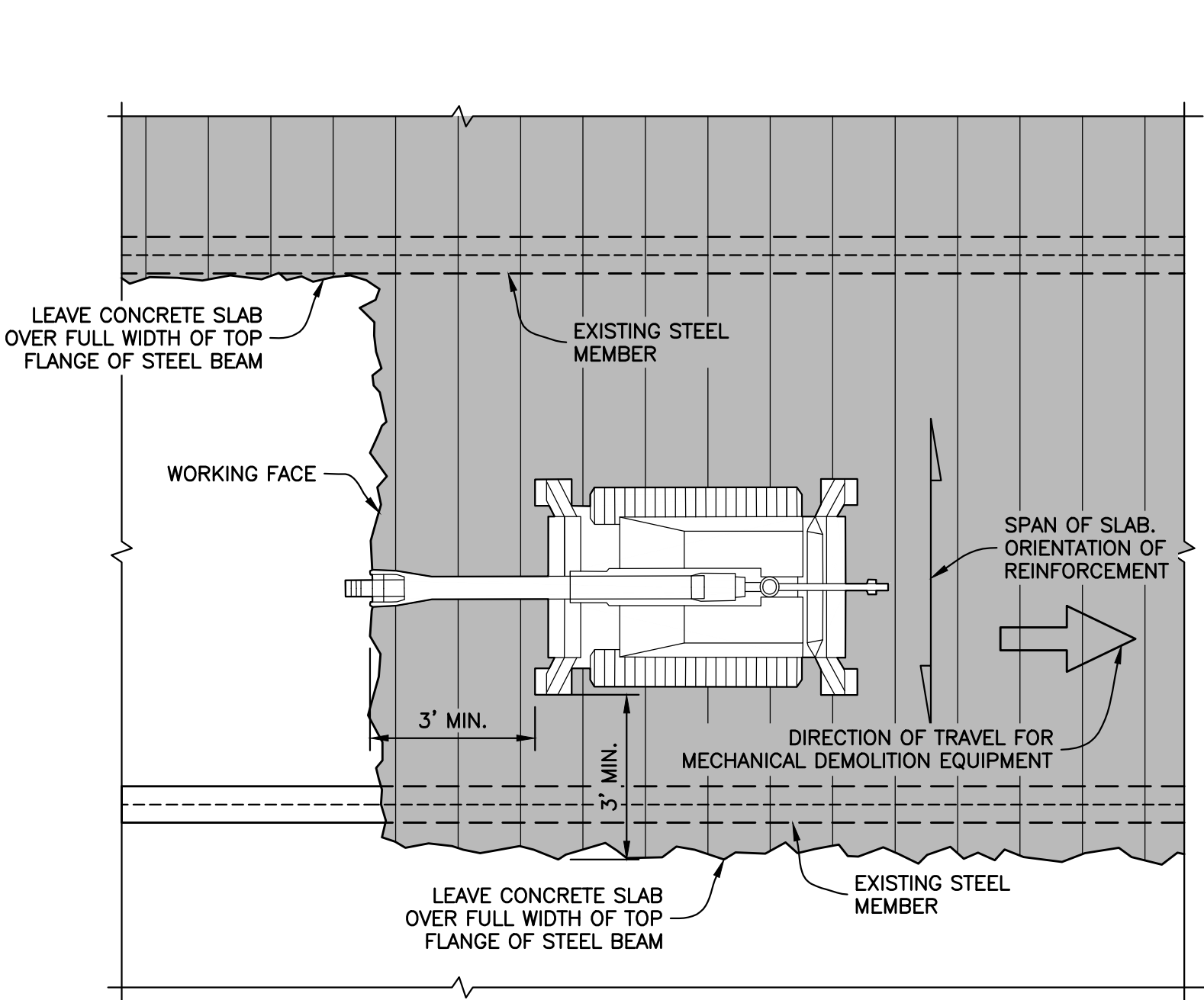
DEBRIS CHUTE DETAIL  
Scale : 1/4" = 1'-0"

COMBINATION SAWCUT & SCORE DETAIL

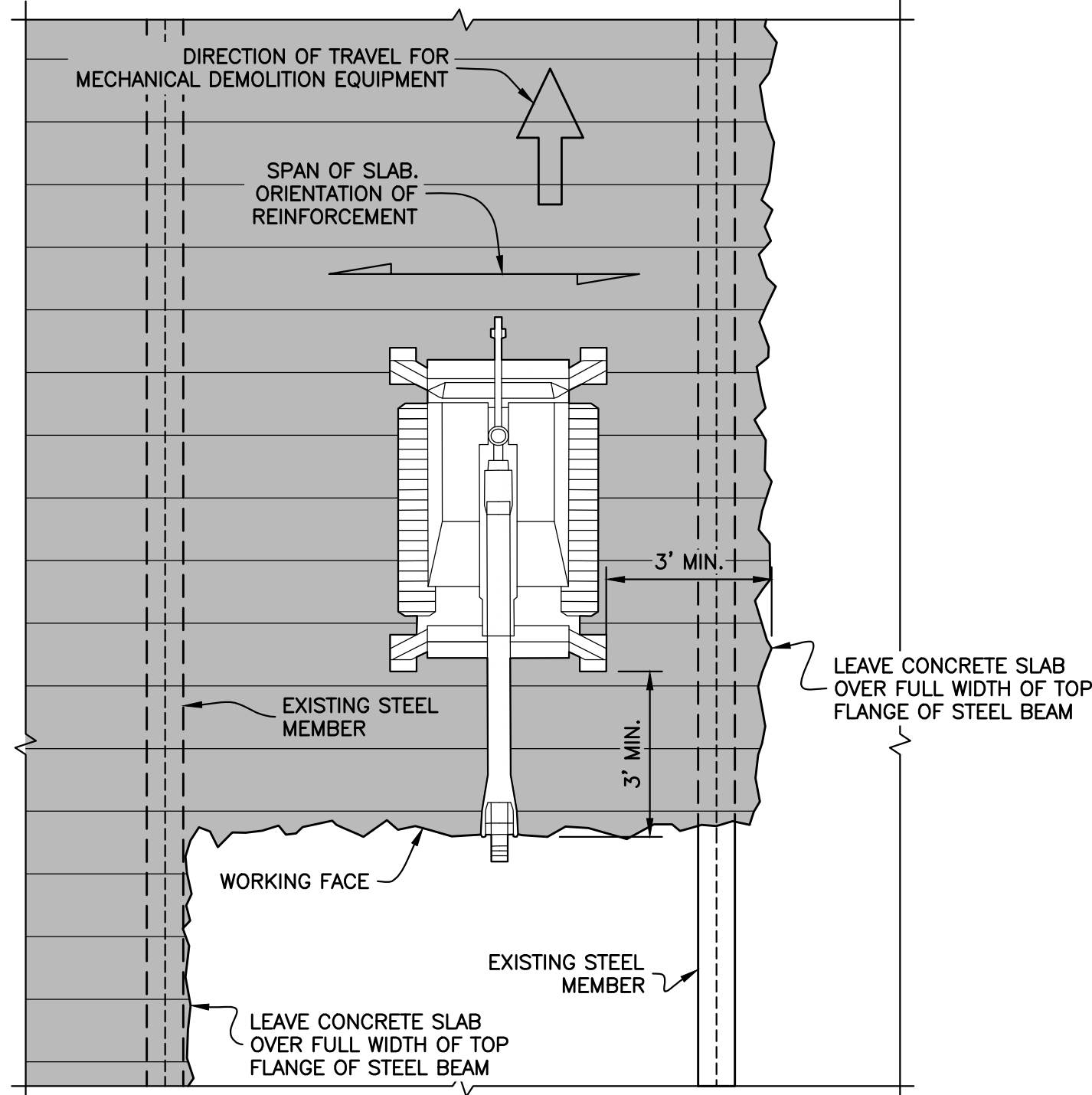


BRIDGE DETAIL  
Scale : 1/2" = 1'-0"

POSITION OF MACHINE AND ORIENTATION OF SLAB REINFORCEMENT




POSITION 1  
Scale : 3/8" = 1'-0"



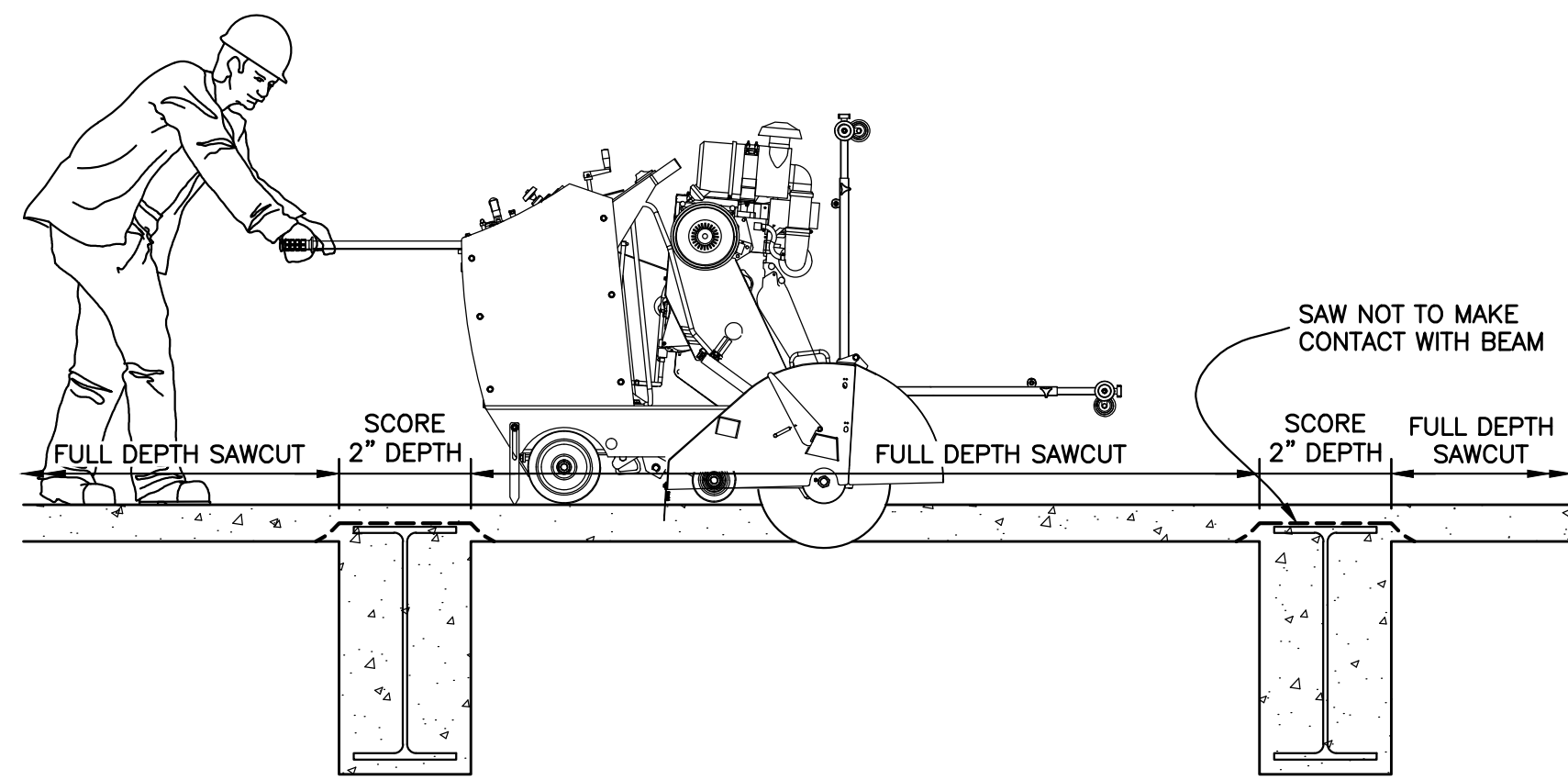
POSITION 2  
Scale : 3/8" = 1'-0"

- NOTES:
1. MAINTAIN A MINIMUM OF 3' EDGE DISTANCE BETWEEN EDGE OF OUTRIGGER OF TRACK FROM WORKING FACE.
  2. THE DIRECTION OF DEMOLITION WITHIN A BAY AND THE DIRECTION OF TRAVEL FOR THE MACHINE SHOULD BE PERPENDICULAR TO THE ORIENTATION OF THE SLAB REINFORCEMENT.

No.	DATE	DESCRIPTION	BY
<b>HOWARD I. SHAPIRO &amp; ASSOCIATES</b> CONSULTING ENGINEERS, P.C. 266 MERRICK ROAD, SUITE 300, LYNBROOK, N.Y. 11563 TEL: (516) 791-2600 FAX: (516) 791-5425 COPYRIGHT DESIGN NOT TO BE LENT, COPIED, OR REPRODUCED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT. THIS OFFICE DISCLAIMS ANY RESPONSIBILITY FOR DRAWINGS OR OTHER DOCUMENTS RELATED TO THIS PROJECT UNLESS THEY BEAR THE SIGNATURE AND SEAL OF A PROFESSIONAL ENGINEER OF THIS OFFICE. THE NEW YORK STATE EDUCATION LAW PROHIBITS ANY ALTERATIONS TO, OR DELETIONS FROM, THIS DRAWING EXCEPT AS MAY BE MADE BY A LICENSED PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT WHO WILL BEAR THE RESPONSIBILITY FOR SUCH CHANGE.			
CLIENT JOHN CIVETTA & SONS, INC. 1123 BRONX RIVER AVE, BRONX, NY 10472 PH: (718) 589-9000			
PROJECT PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
ZONING INFORMATION BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	
TITLE DEMOTLION DETAILS SHEET 1 OF 2			
SEAL & SIGNATURE 		DRAWING BY: KC DATE: 03/20/2020 PROJECT NO: 18211.03.00 ENGINEER: JS SCALE: AS NOTED CHK BY: JS DWG NO: DM-014.00	
3/20/20		V:2018\18211.03.00 14 OF 18	



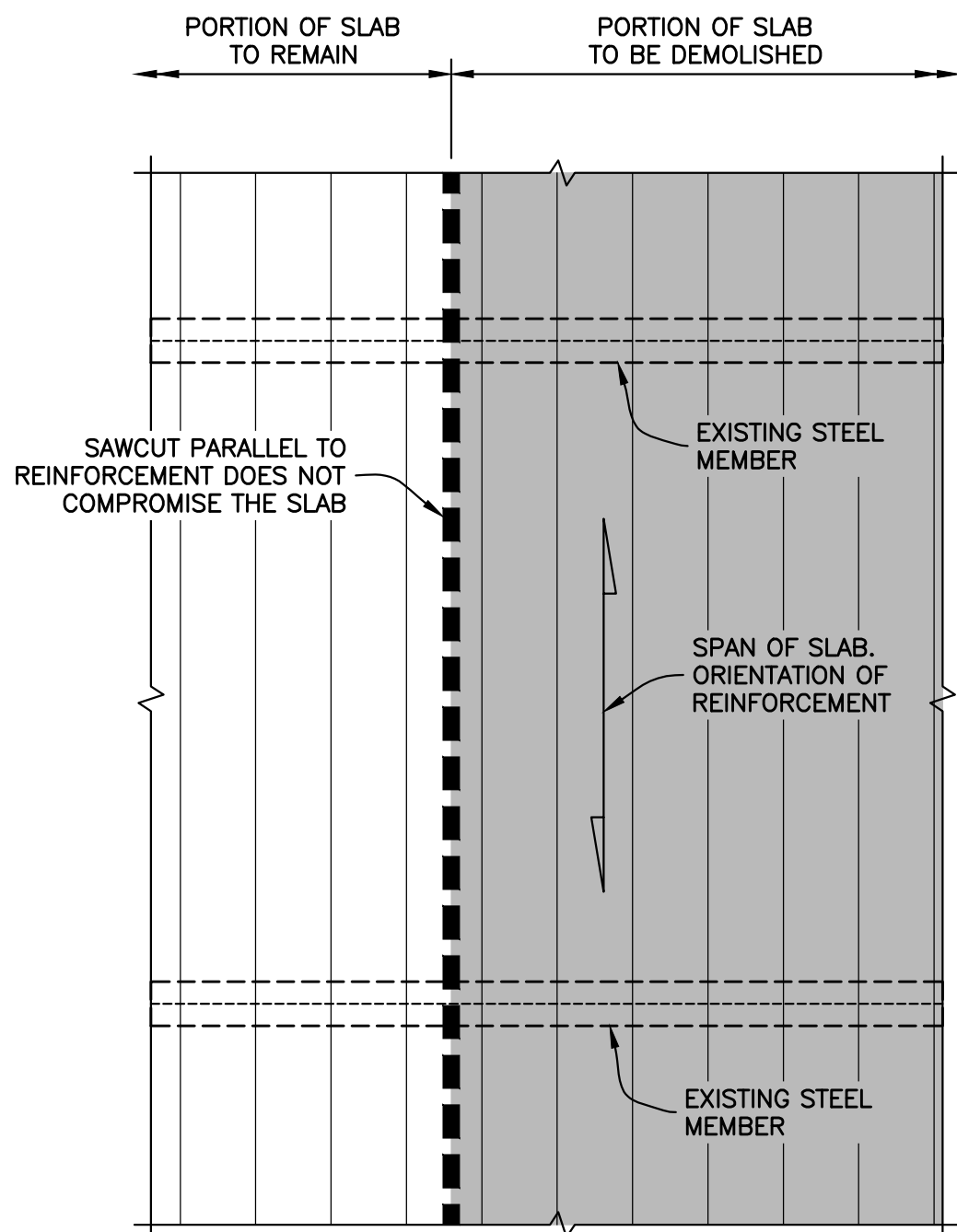
COMBINATION SAWCUT & SCORE DETAIL



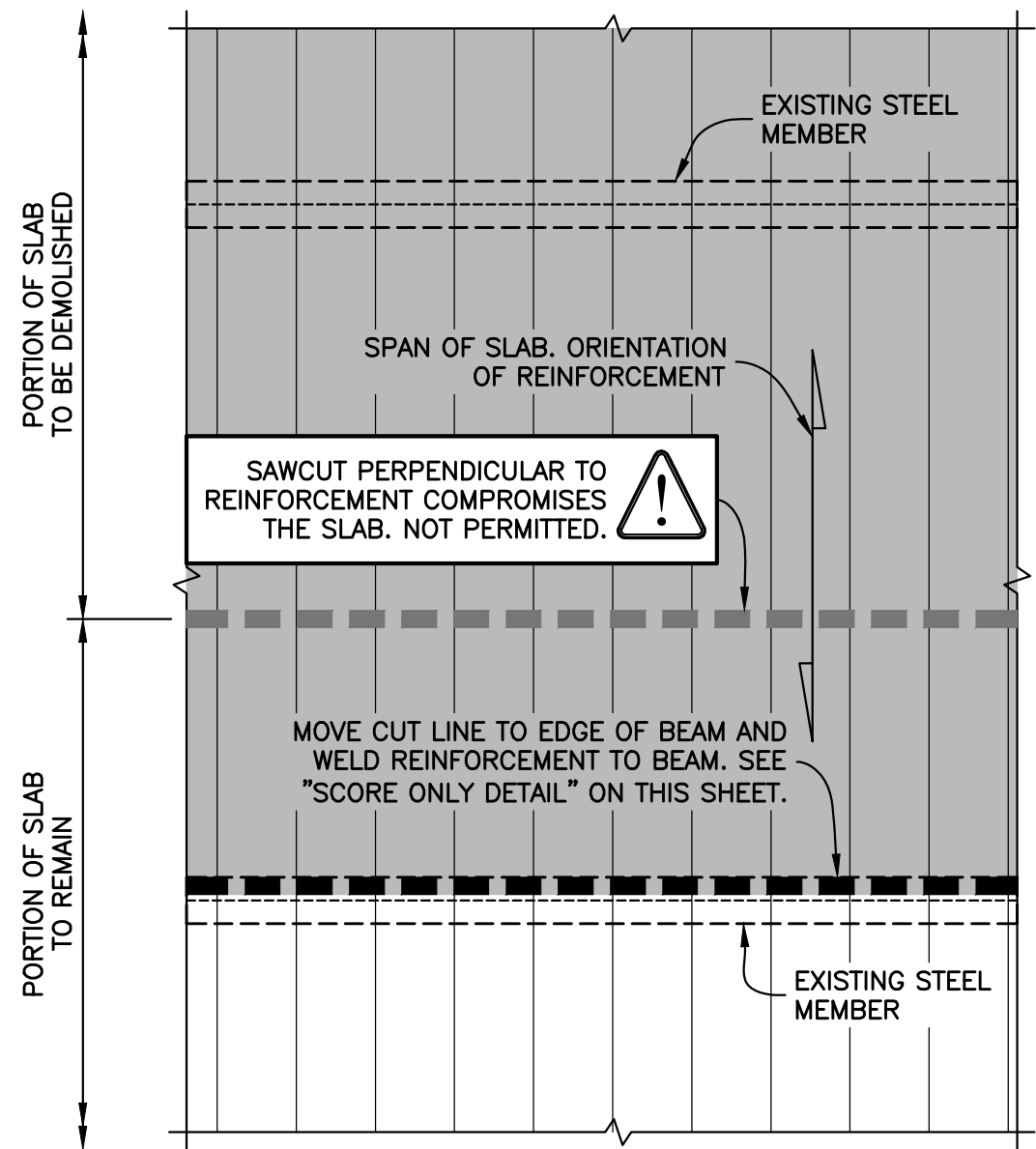
COMBINATION SAWCUT & SCORE DETAIL  
Scale : 1/2" = 1'-0"

SCORE SLAB WITH HAND HELD OR WALK BEHIND DEMOLITION SAW. SCORE DEPTH =2". REDUCE SCORE DEPTH TO PREVENT CONTACT WITH TOP FLANGE OF BEAM.

CUTLINE LOCATION RELATIVE TO REINFORCEMENT ORIENTATION

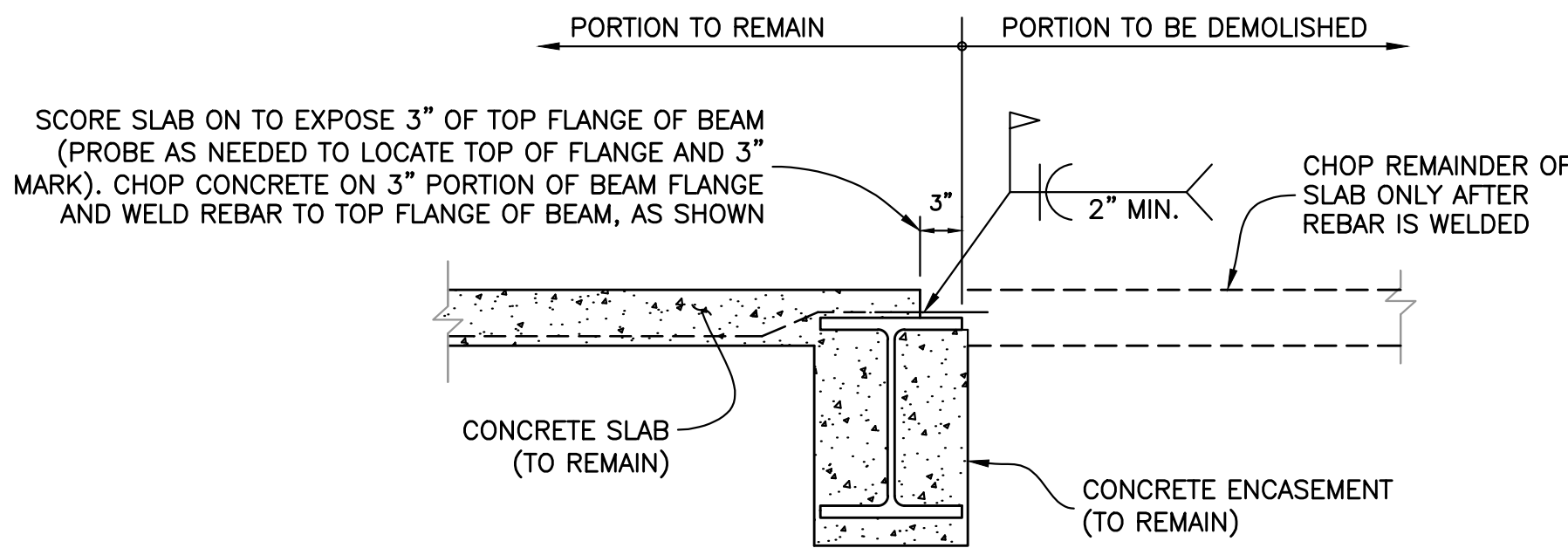


SAWCUT OR SCORE LINE PARALLEL TO THE DIRECTION OF REINFORCING STEEL  
Scale : 3/8" = 1'-0"



SAWCUT OR SCORE LINE PERPENDICULAR TO THE DIRECTION OF REINFORCING STEEL  
Scale : 3/8" = 1'-0"

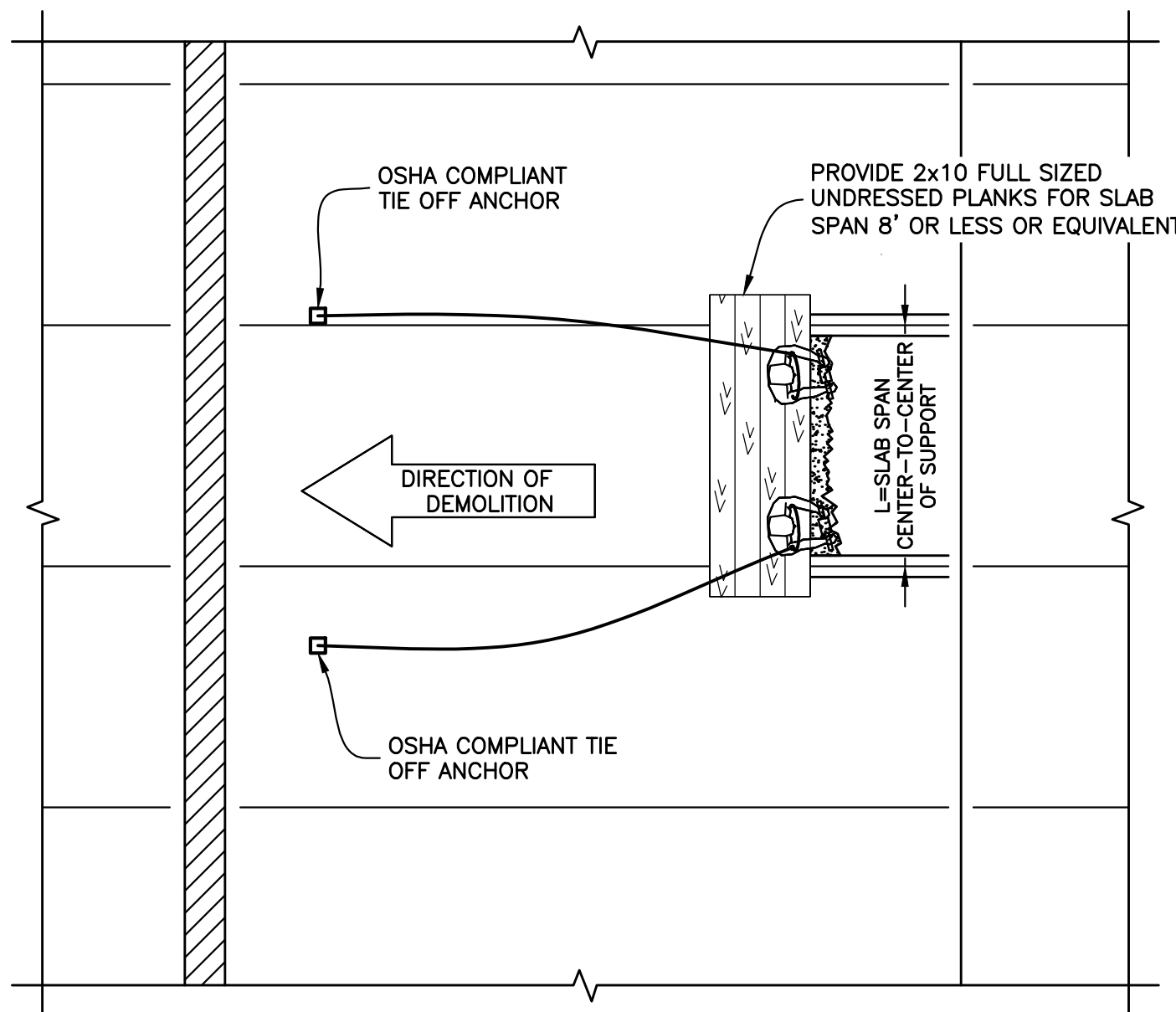
SCORE ONLY DETAIL



SCORE ONLY DETAIL  
Scale : 1" = 1'-0"

SCORE SLAB WITH HAND HELD OR WALK BEHIND DEMOLITION SAW. SCORE DEPTH =2". REDUCE SCORE DEPTH TO PREVENT CONTACT WITH TOP FLANGE OF BEAM.

CHOPPING CONCRETE SLAB BY HAND DETAIL



CHOPPING CONCRETE SLAB BY HAND DETAIL  
SCALE : 3/16" = 1'-0"

DEMOLITION PROCEDURE

- ON THE TWO SUBSEQUENT FLOORS BELOW THE SLAB BEING DEMOLISHED, IN THE AREA WHERE THE CONCRETE DEBRIS WILL BE DROPPED, SITE PERSONNEL SHALL BE MADE AWARE OF THE HAZARDS OF THE DEMOLITION OPERATION AND SHALL NOT BE PERMITTED DIRECTLY UNDER THE AREA BEING DEMOLISHED OR WITHIN 25' OR ONE BAY, WHICHEVER IS GREATER. THESE AREAS ARE 'EXCLUSION ZONES DURING DEMOLITION'. NO PERSONNEL ARE PERMITTED IN THE EXCLUSION ZONES WHILE DEMOLITION IS IN PROGRESS.
- INSTALL OSHA COMPLIANT TIE OFF ANCHORS AS NEEDED.
- BEFORE DEMOLISHING ANY SLAB, DEBRIS AND OTHER MATERIAL SHALL BE REMOVED FROM SUCH SLAB AND OTHER ADJACENT FLOOR AREA.

PER OSHA, PLANKS NOT LESS THAN 2 INCHES BY 10 INCHES IN CROSS SECTION, FULL SIZE UNDRESSED, SHALL BE PROVIDED FOR, AND SHALL BE USED BY LABORERS TO STAND ON WHILE CHOPPING SLABS BETWEEN BEAMS. SUCH PLANKS SHALL BE SO LOCATED AS TO PROVIDE A SAFE SUPPORT FOR THE WORKMEN SHOULD THE SLAB BETWEEN THE BEAMS COLLAPSE. THE OPEN SPACE BETWEEN PLANKS SHALL NOT EXCEED 16 INCHES.

EQUIVALENT ALTERNATIVES TO 2x10 FULL SIZED UNDRESSED PLANK INCLUDE:

2x10 SCAFFOLD PLANK FOR SPANS LESS THAN OR EQUAL TO 5'.  
MINIMUM WIDTH = 2 PLANKS WIDE.

DOUBLE 2x10 SCAFFOLD PLANK FOR SPANS LESS THAN OR EQUAL TO 8'.  
MINIMUM WIDTH = 2 PLANKS WIDE.

24" WIDE x 12' LONG ALUMINIUM PICK WITH 5" SIDE RAIL DEPTH AND 2" SIDE RAIL FLANGE (WERNER MODEL 3112) FOR SPANS LESS THAN OR EQUAL TO 10'.

24" WIDE x 16' LONG ALUMINIUM PICK WITH 5" SIDE RAIL DEPTH AND 2" SIDE RAIL FLANGE (WERNER MODEL 3116) FOR SPANS LESS THAN OR EQUAL TO 14'.


PROVIDE MINIMUM 12" BEARING AT EACH END.

CRITERIA IS BASED ON ANSI A10.8 DEFINITION OF A "PERSON LOAD" (200 LB PERSON WITH 50 LBS OF EQUIPMENT). "3-PERSON LOAD" IS APPLIED WITH A "PERSON" LOAD AT MIDSPAN AND A "PERSON" LOAD AT 18" EITHER SIDE OF MIDSPAN.

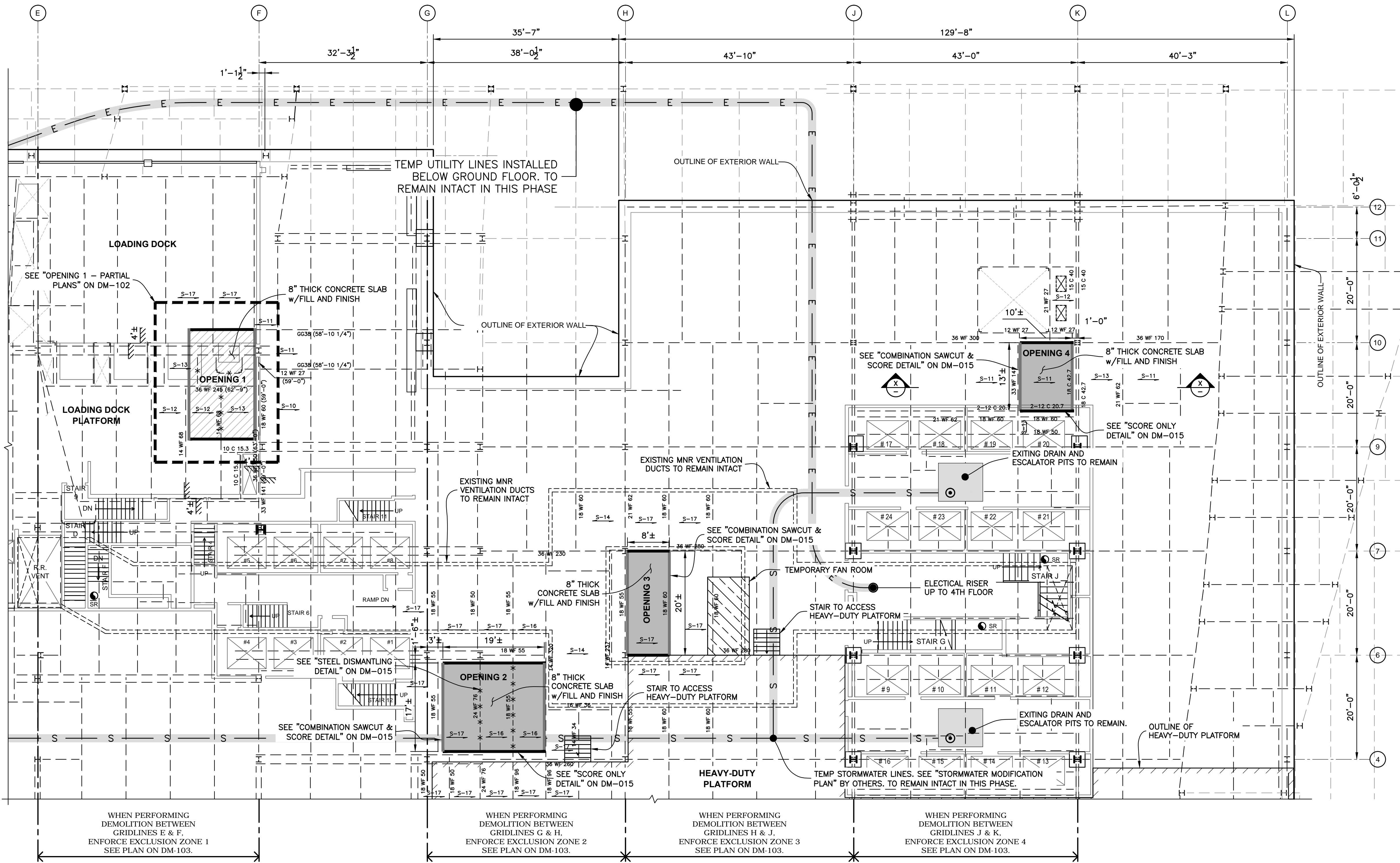
DEFLECTION ARE LIMITED TO L/60 PER OSHA REQUIREMENTS.

SCAFFOLD PLANK SHALL BE SOUTHERN YELLOW PINE D165 OR 2200f MSR 1.8E GRADE PLANK.

- PERSONNEL SHALL TIE OFF TO OSHA COMPLIANT TIE POINTS WITH OSHA RATED EQUIPMENT WHEN WITHIN 6' OF THE OPENING.
- AFTER DEMOLITION IS COMPLETE, INSTALL STANDARD GUARDRAILS AROUND THE OPENING AS FALL PROTECTION OR COVER.

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PROJECT PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
ZONING INFORMATION BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	
TITLE DEMOTLION DETAILS SHEET 2 OF 2			
SEAL & SIGNATURE 		DRAWING BY: KC DATE: 03/20/2020 PROJECT NO: 18211.03.00 ENGINEER: JS SCALE: AS NOTED CHK BY: JS DWG NO: DM-015.00	
V:2018\18211.03.00		15 OF 18	





# NOTES:

- SEE DM-001 AND DM-003 FOR GENERAL NOTES AND ADDITIONAL INFORMATION REGARDING SAFEGUARDS DURING DEMOLITION.
- PRIOR TO MAKING OPENINGS IN GROUND FLOOR, COORDINATE TRACK OUTAGES WITH METRO-NORTH RAILROAD. SEE NOTES ON PLAN ON THIS SHEET AND DM-103 FOR EXCLUSION ZONES. CORRESPONDING TO THE WORK AREAS.
- WITHIN THE HUNG CEILING THERE ARE ACTIVE UTILITIES WHICH CANNOT BE REMOVED AND SHALL REMAIN IN SERVICE AND UNDISTURBED.
- FOLLOW ALL RELEVANT OSHA REGULATIONS RELATED TO WORKING IN A CONFINED SPACE INCLUDING ADDITIONAL RULES RELATED TO HOTWORKS, VENTILATION, AIR MONITORING, AND EGRESS AS APPLICABLE.
- FIRE PREVENTION DURING DEMOLITION
  - COMBUSTIBLE DEBRIS SHALL NOT BE PERMITTED TO ACCUMULATE, AND SHALL BE REMOVED FROM THE SITE AT REASONABLE INTERVALS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK CITY FIRE CODE.
  - FIREFIGHTING EQUIPMENT, FIRE FIGHTING ACCESS AT THE CONSTRUCTION OR DEMOLITION SITE, AND THE CONDUCT OF ALL CONSTRUCTION OR DEMOLITION OPERATIONS AFFECTING FIRE PREVENTION AND FIRE FIGHTING SHALL COMPLY WITH THE NEW YORK CITY FIRE CODE AND THE PROVISIONS OF SECTIONS 3303.7.1 THRU 3303.7.5.
  - A WATER SUPPLY FOR FIRE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE NEW YORK CITY FIRE CODE.
  - FIRE EXTINGUISHERS SHALL BE PROVIDED IN ACCORDANCE WITH THE NEW YORK CITY FIRE CODE.
  - SMOKING SHALL BE PROHIBITED AT ALL CONSTRUCTION AND DEMOLITION SITES. NO SMOKING SIGNS SHALL BE POSTED AT THE SITE IN ACCORDANCE WITH THE PROVISIONS OF THE NEW YORK CITY FIRE CODE.
- ALLOWABLE LIVELOAD ON HUNG CEILING = 25 PSF.
 

THE DEBRIS SHALL BE REMOVED AS IT IS GENERATED. THE MAXIMUM WEIGHT OF CONCRETE DEBRIS PERMITTED TO BE TEMPORARY STOCKPILED ON THE HUNG CEILING = 1000 LBS ON A 5' x 11' PANEL (DIMENSIONS OF PANEL SUPPORTED BY HANGER RODS).

PROVIDE RUBBER TIRE MAT WITH 2x10 PLANK AND 3/4" PLYWOOD TO PROTECT THE SLAB. SEE DETAIL BELOW.

CONCRETE PIECES TO BE CHOPPED SHALL NOT EXCEED 1 SQFT.
- REMOVE STEEL BEAMS AS SHOWN IN PLAN ON DM-101 AND DM-102. SEE "STEEL DISMANTLING DETAIL ON DM-102. STEEL SHALL NOT BE DROPPED ONTO HUNG CEILING.
 

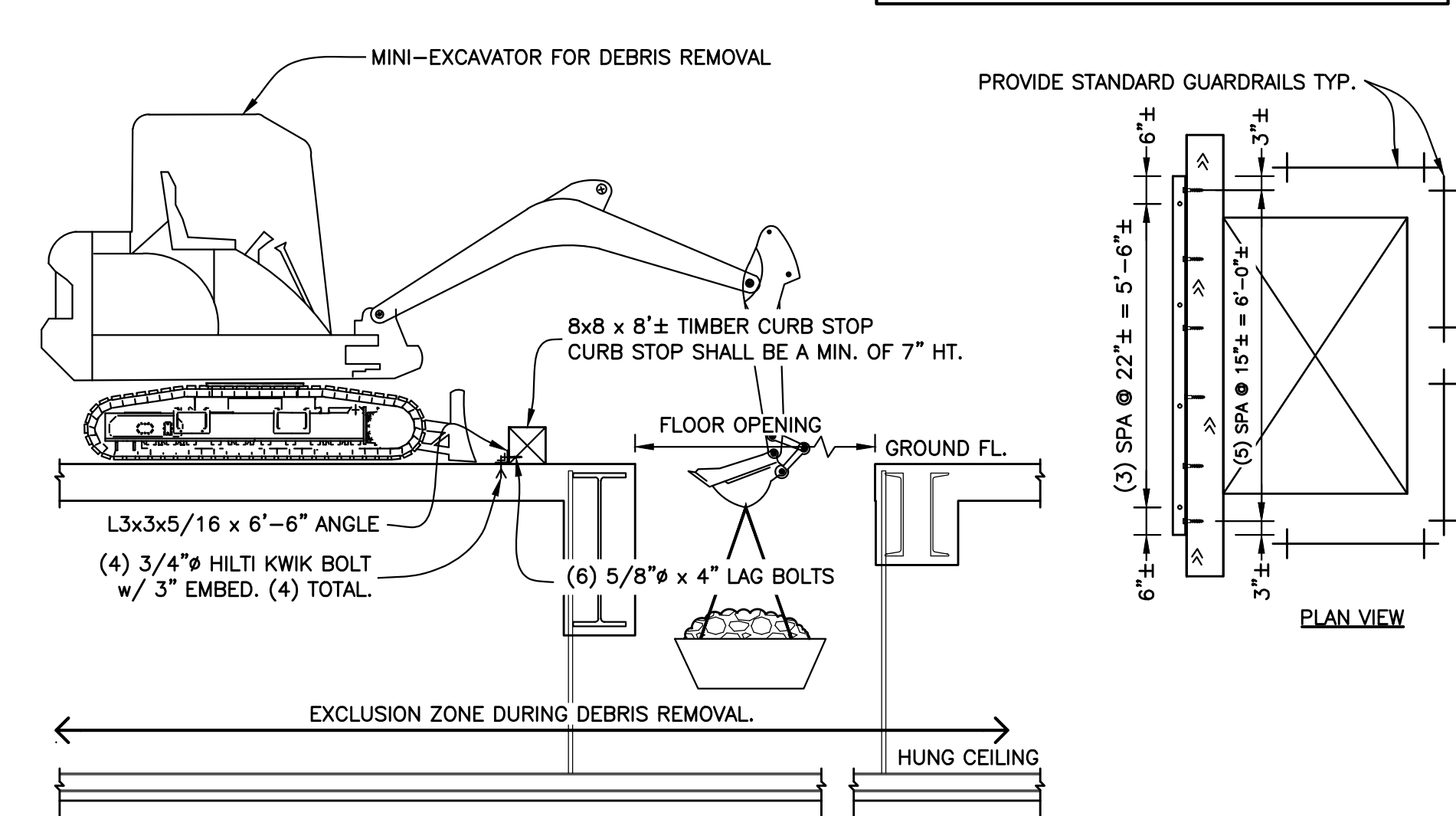
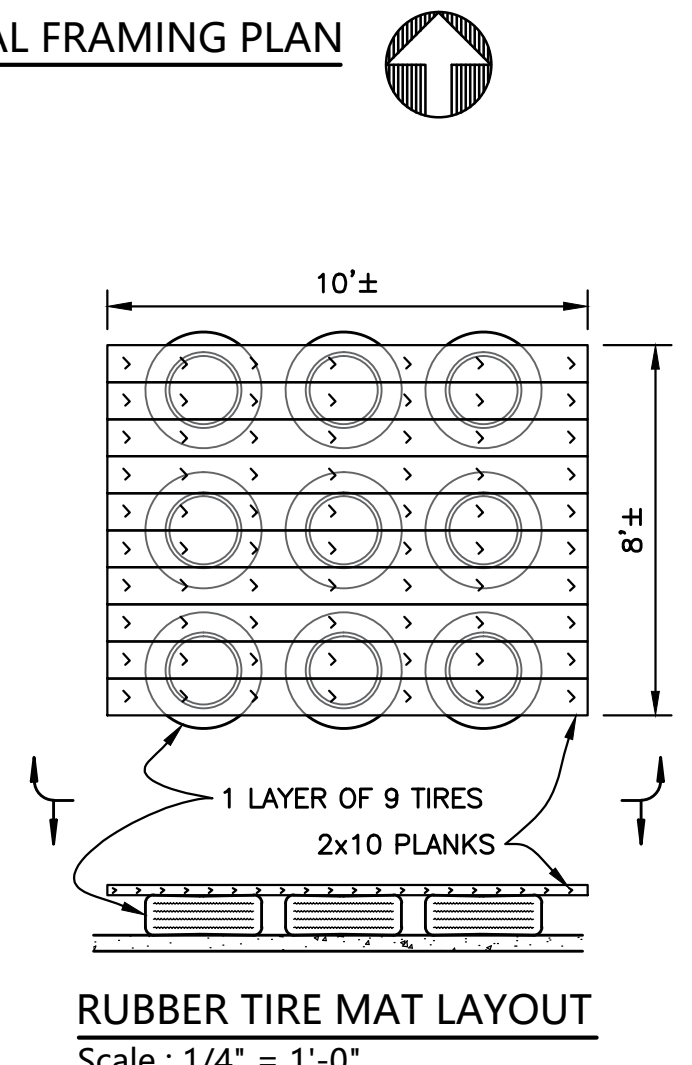
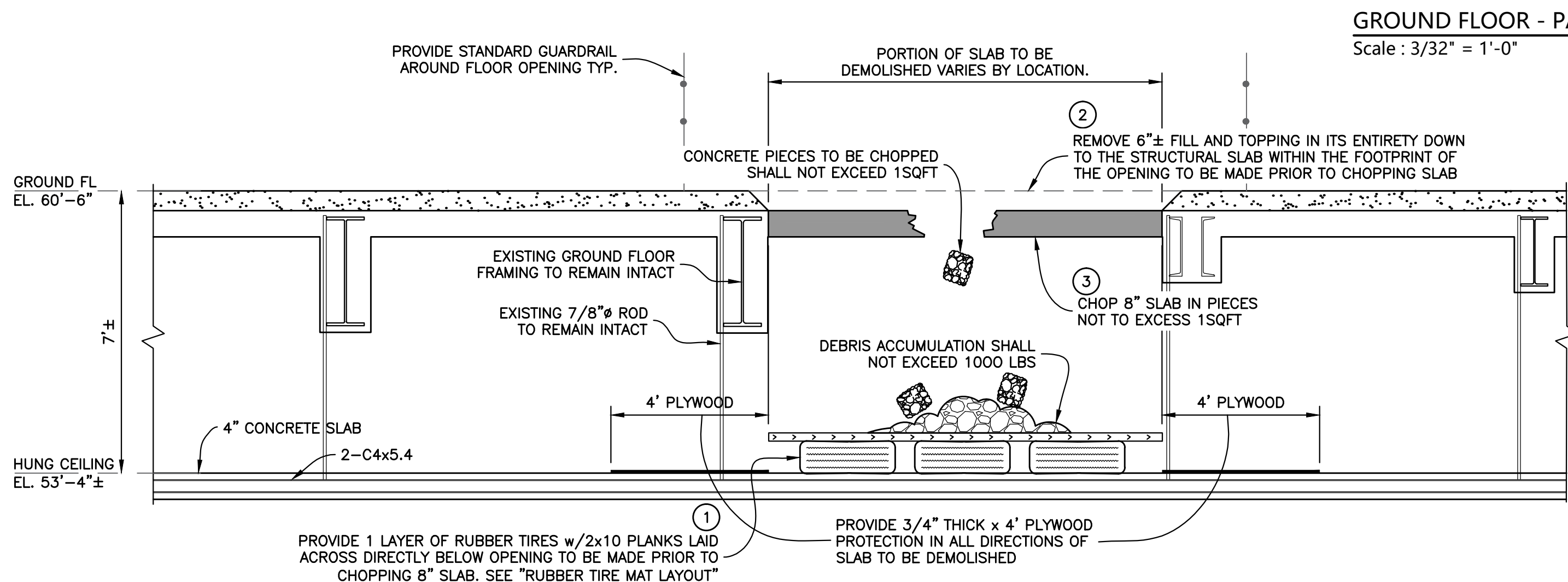
PRIOR TO CUTTING EXISTING 14WF68 AT OPENING 1, INSTALL SHORING AS SPECIFIED IN "SHORING BEAM DETAIL" ON DM-102.
- PROVIDE STANDARD GUARDRAILS AROUND OPENING.
 

IF A MACHINE IS USED TO LIFT THE DEBRIS FROM THE FLOOR OPENING, PROVIDE A CURB STOP AT THE SLAB EDGE TO PREVENT THE MACHINE FROM ROLLING INTO THE HOLE.

THE DEBRIS CAN ALSO BE REMOVED FROM THE HOLE MANUALLY.
- WHEN LIFTING THE DEBRIS FROM THE HUNG CEILING WITH A MACHINE, NO INDIVIDUAL IS PERMITTED UNDER THE LOAD WHEN IT IS LIFTED.
- PROVIDE 2 MEANS-OF-EGRESS. MEANS-OF-EGRESS SHALL BE FREE OF OBSTRUCTIONS AT ALL TIMES. SEE PLAN ON DM-004.

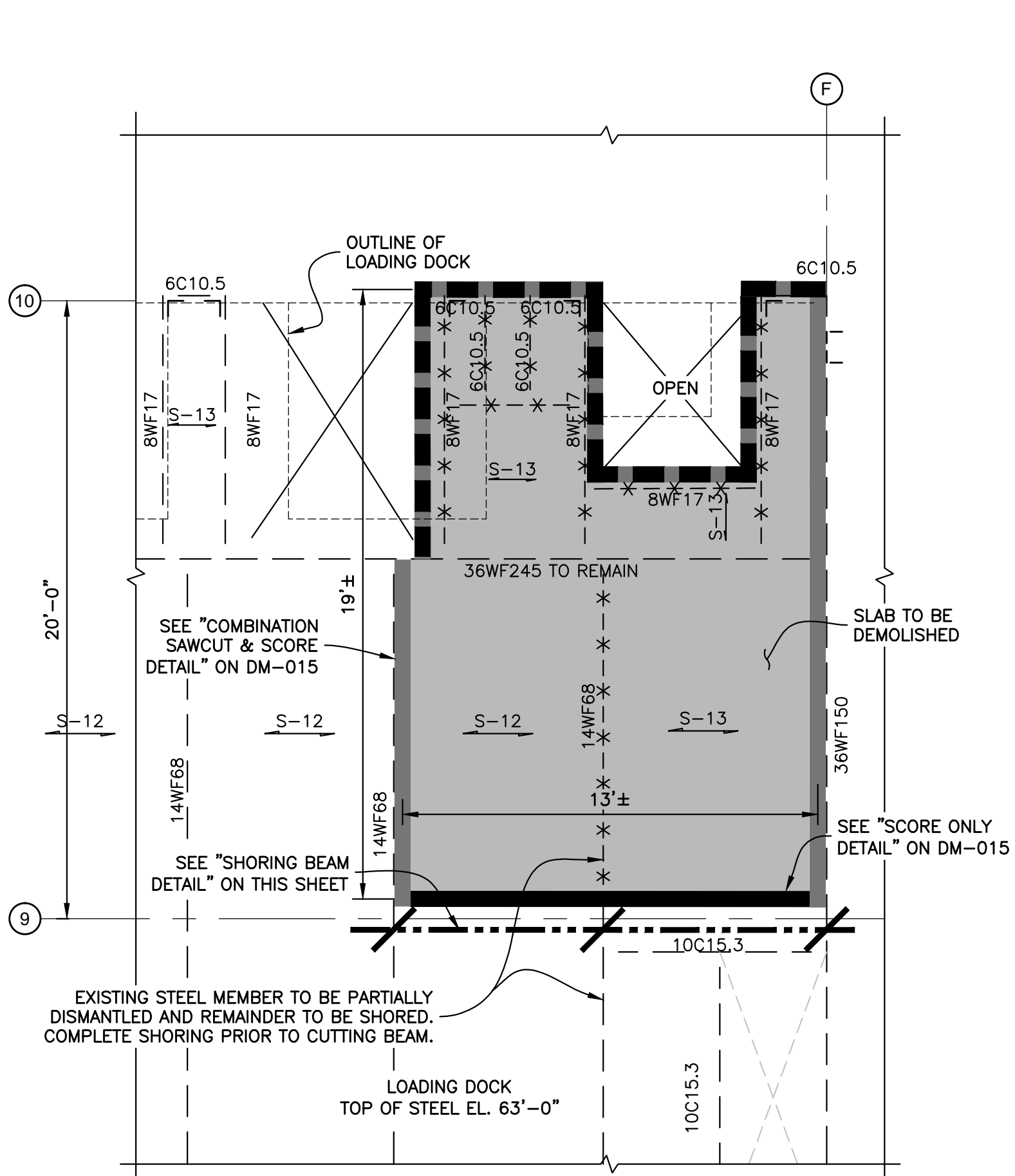
LEGEND	
	SLAB TO BE DEMOLISHED
	STEEL BEAMS TYP.
	STEEL BEAMS TO BE REMOVED TYP. SEE "STEEL DISMANTLING DETAIL" ON DM-102
	EXCLUSION ZONE
	SCORE SLAB ONLY TYP. SEE DETAIL ON DM-015.
	COMBINATION SAWCUT & SCORE SLAB TYP. SEE DETAIL ON DM-015.
	CHOP SLAB TYP.
	SPAN OF SLAB. ORIENTATION OF REINFORCEMENT
	TEMP. ELECTRIC LINE TO REMAIN
	TEMP. STORMWATER LINE TO REMAIN

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CLIENT			
JOHN CIVETTA & SONS, INC. 1123 BRONX RIVER AVE, BRONX, NY 10472 PH: (718) 589-9000			
PROJECT			
PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
ZONING INFORMATION			
BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	

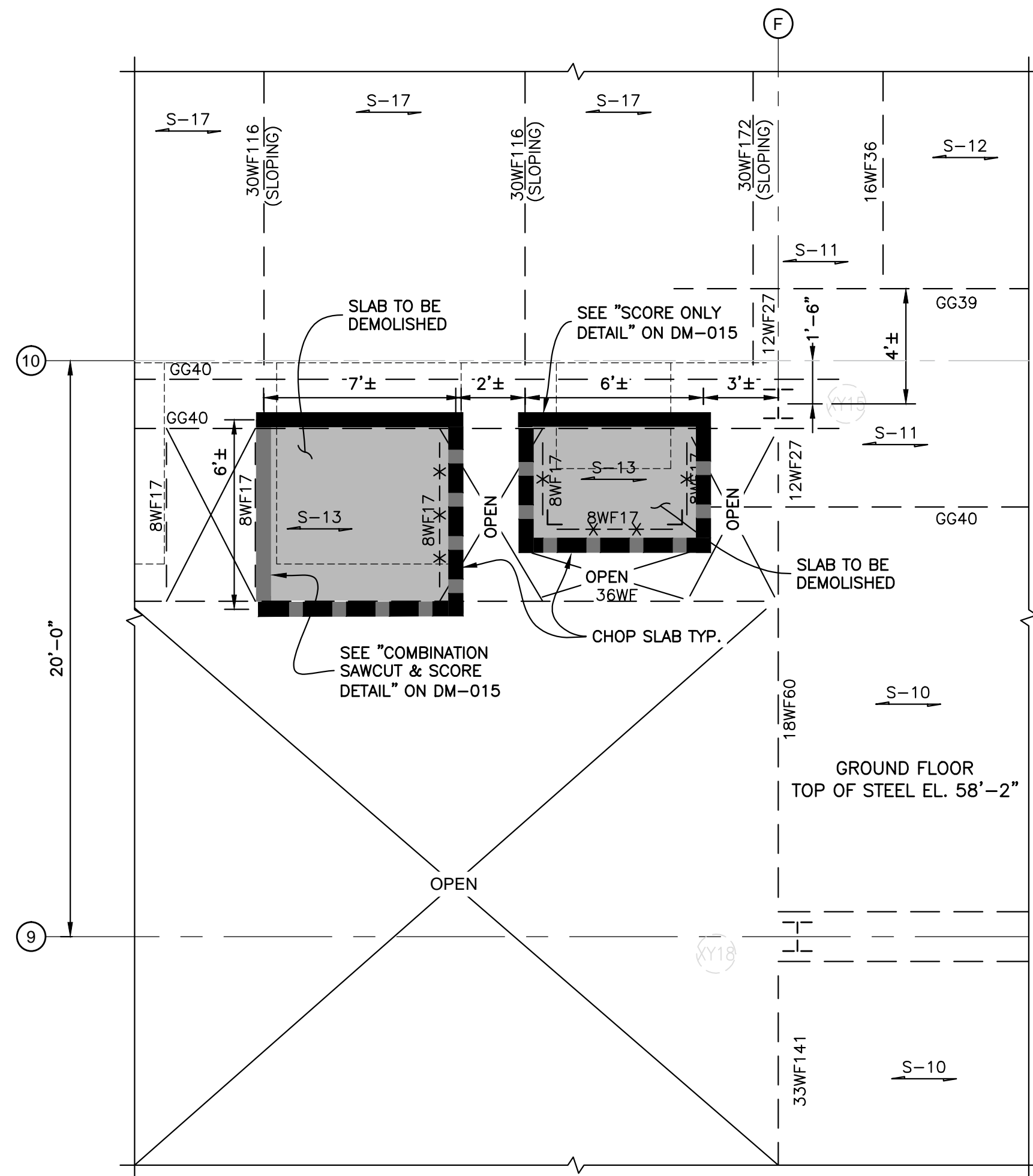


TITLE		GROUND FLOOR PARTIAL FRAMING PLAN	
SEAL & SIGNATURE	DRAWING BY: KC	DATE: 03/20/2020	
	PROJECT NO: 18211.03.00	ENGINEER: JS	
	SCALE: AS NOTED	CHK BY: JS	
	DWG NO:		
	DM-101.00		
3/20/20		16 OF 18	

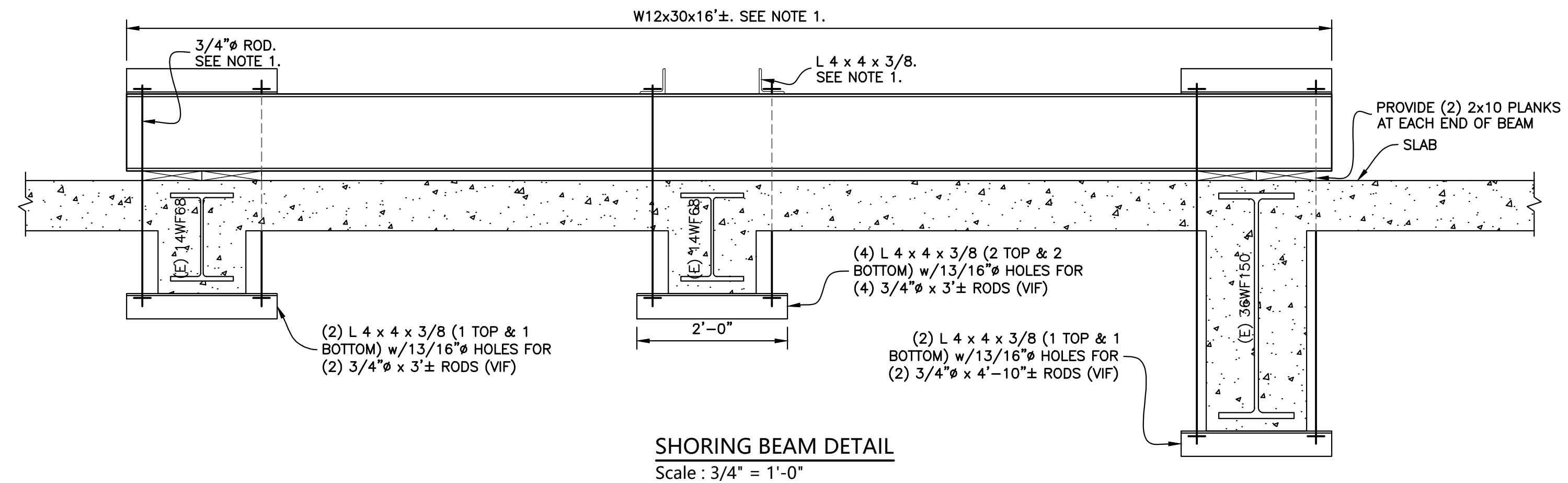
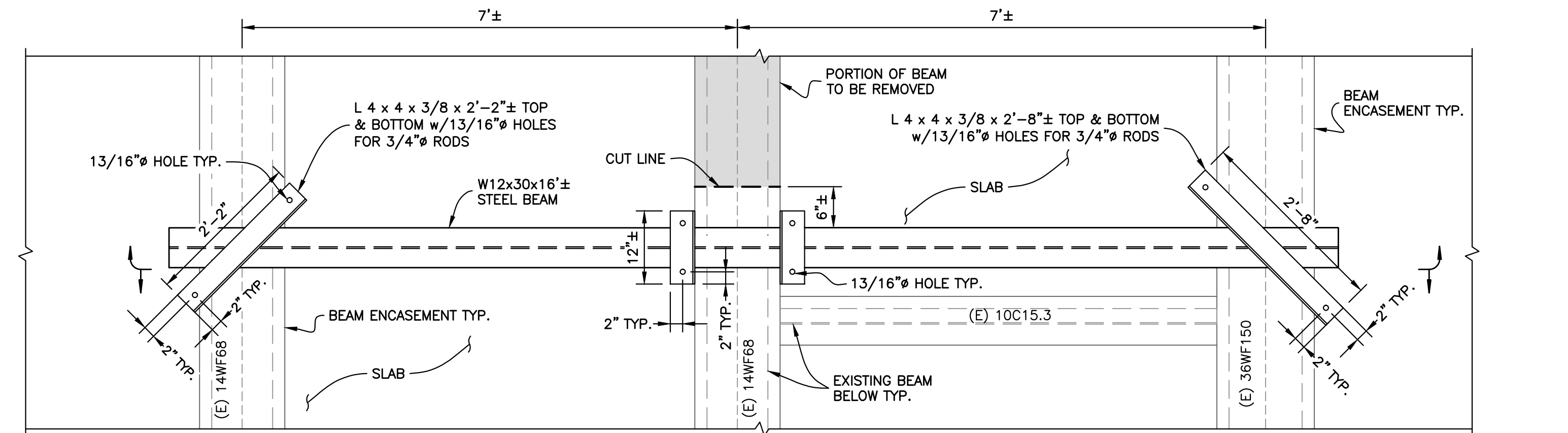




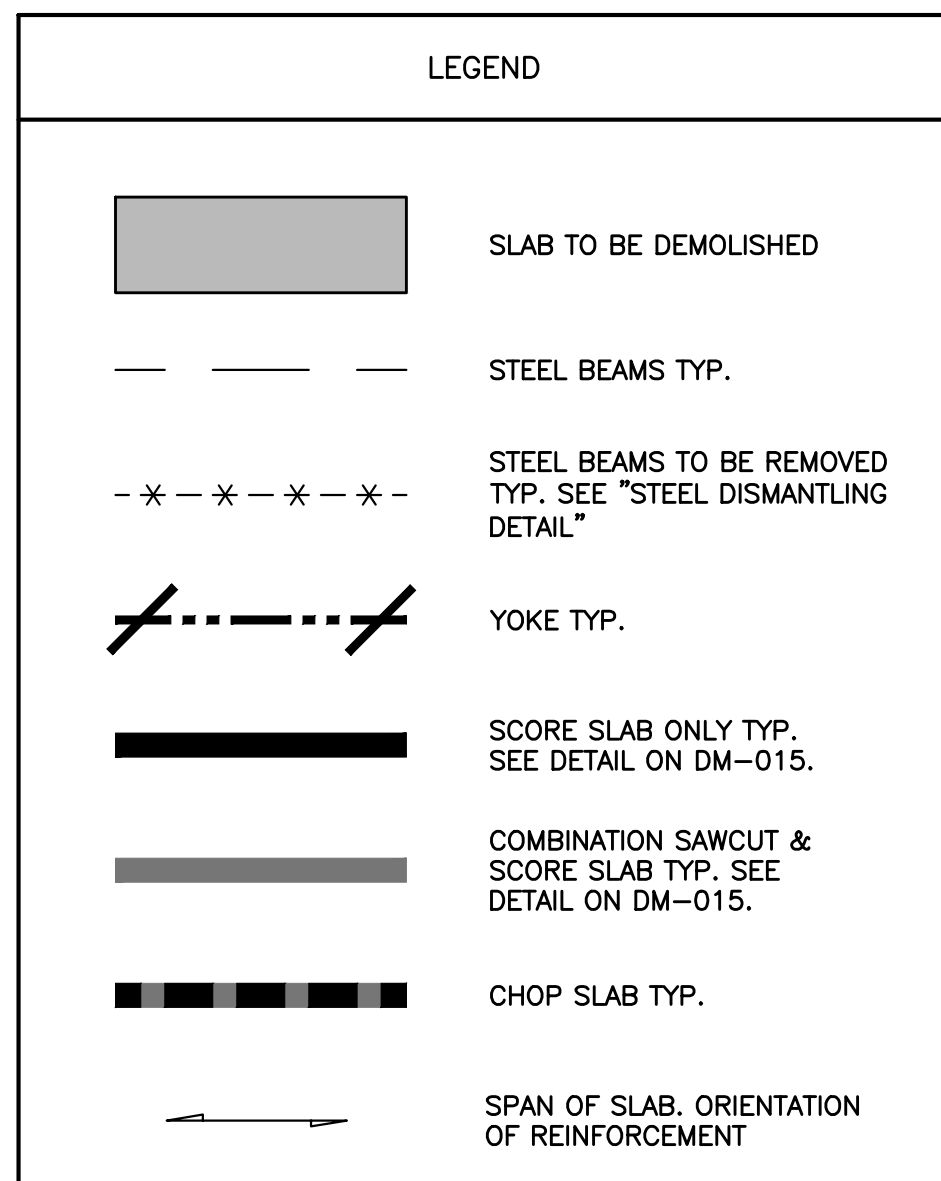
OPENING 1 - LOADING DOCK PARTIAL PLAN  
Scale: 1/4" = 1'-0"



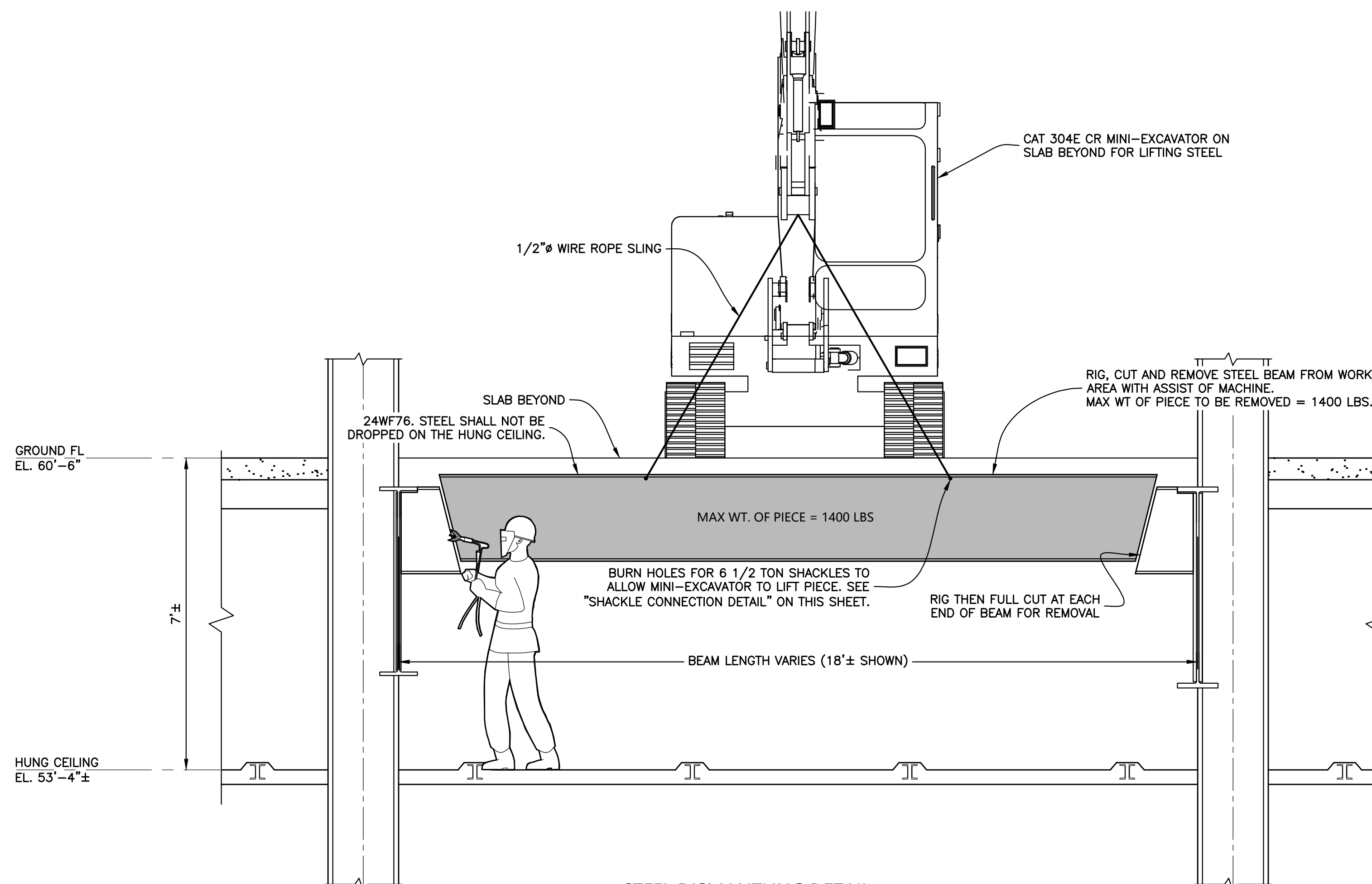
OPENING 1 - GROUND FLOOR PARTIAL PLAN  
Scale: 1/4" = 1'-0"



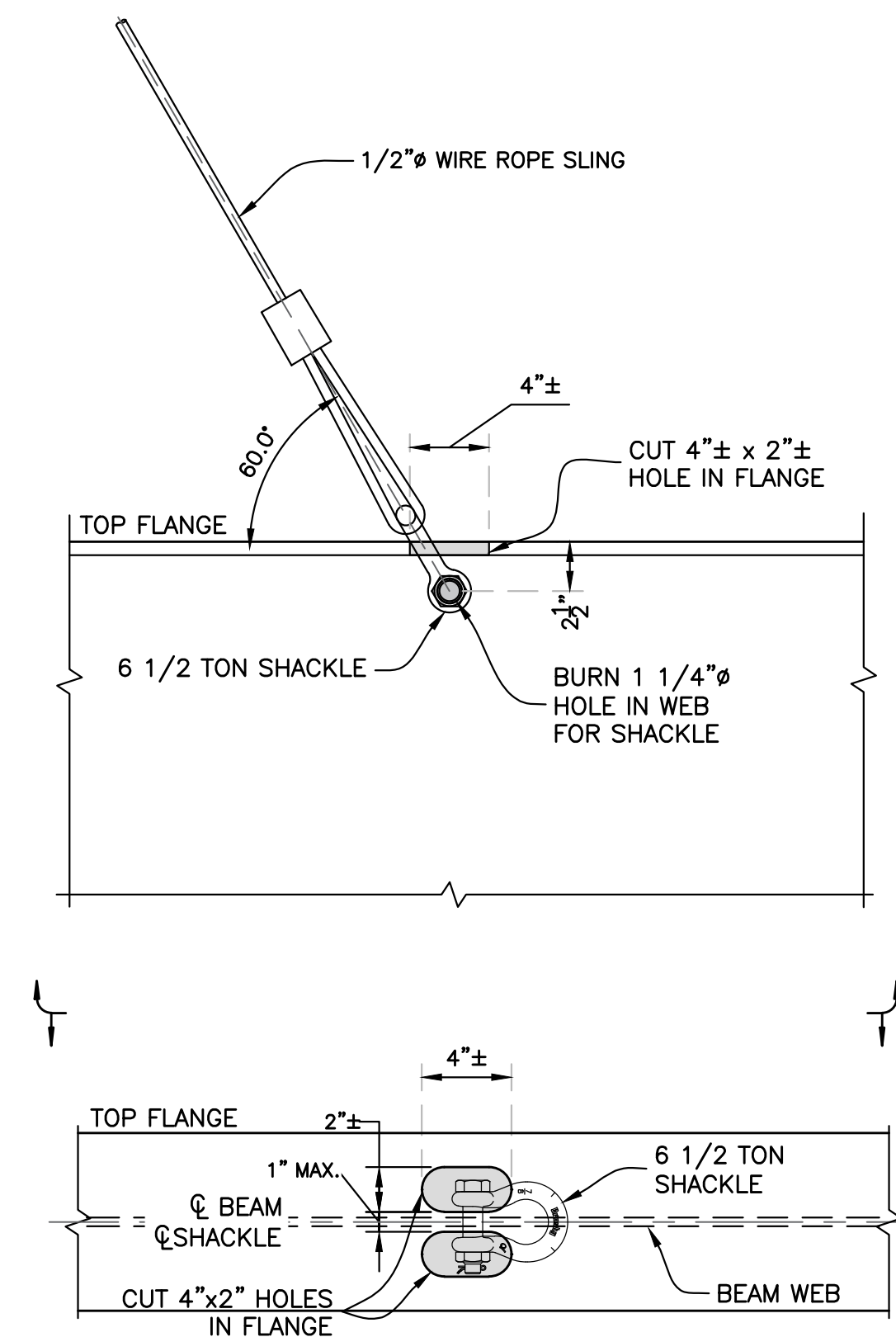
SHORING BEAM DETAIL  
Scale: 3/4" = 1'-0"



NOTE:  
1. ALL STEEL SHALL BE Fy=36 KSI MIN.



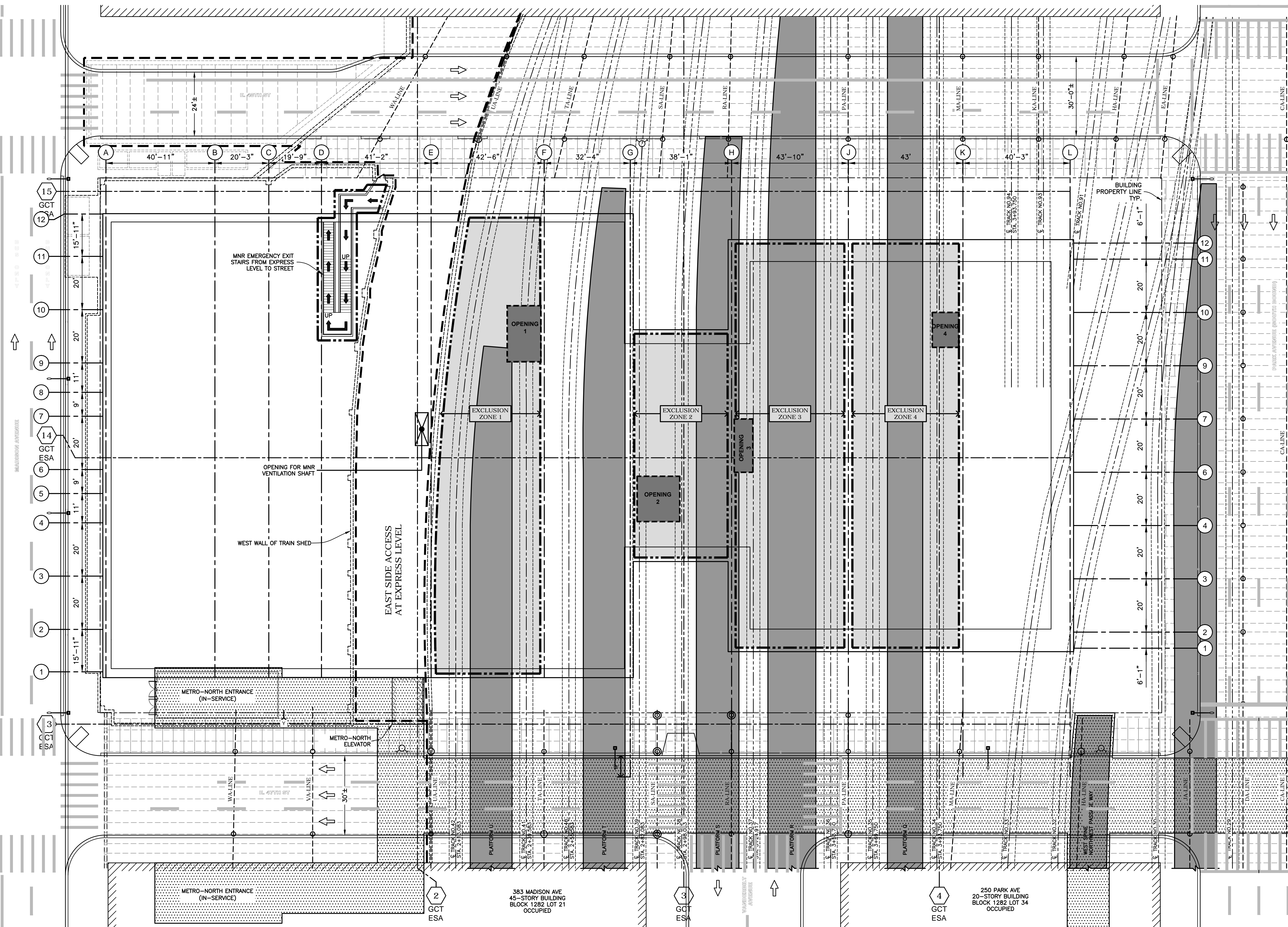
STEEL DISMANTLING DETAIL  
Scale: 1/2" = 1'-0"



SHACKLE CONNECTION DETAIL  
Scale: 1 1/2" = 1'-0"

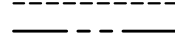


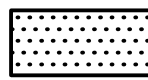


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<b>PROJECT</b> PARTIAL DEMOLITION OF CELLAR SLABS FOR FOUNDATION CONSTRUCTION AT 270 PARK AVENUE, MANHATTAN, NY			
<b>ZONING INFORMATION</b> BLOCK: 1283 LOT: 21 ZONE: C5-3 ZONING MAP: 8D COMMUNITY BOARD: 105 BIN #: 1035421			
PLACE STICKER HERE		EXAMINER'S STAMP HERE	
<b>TITLE</b> GROUND FLOOR & LOADING DOCK PARTIAL FRAMING PLAN			
SEAL & SIGNATURE 		DRAWING BY: KC DATE: 03/20/2020 PROJECT NO: 18211.03.00 ENGINEER: JS SCALE: AS NOTED CHK BY: JS DWG NO:	
		DM-102.00	
		3/20/20	







PLAN VIEW-BELOW GRADE : EXCLUSION ZONES FOR GROUND FLOOR OPENINGS  
Scale : N. T. S.



LEGEND	
	MNR TRAIN TRACK
	MNR TRAIN PLATFORM
	OPENING IN GROUND FLOOR TO ACCESS HUNG CEILING TYP.
	CROSS PASSAGEWAY/ NORTHWEST PASSAGEWAY
	EAST SIDE ACCESS SPACE
	EXCLUSION ZONE
EXCLUSION ZONE 1	WHEN PERFORMING DEMOLITION BETWEEN GRIDLINES E & F, VACATE NORTHERN PORTION OF EAST SIDE ACCESS SPACE AS SHOWN IN PLAN. VACATE TRACKS 41 & 42 AND PLATFORM U.
EXCLUSION ZONE 2	WHEN PERFORMING DEMOLITION BETWEEN GRIDLINES F & G, VACATE TRACK 40 AND PLATFORM T.
EXCLUSION ZONE 3	WHEN PERFORMING DEMOLITION BETWEEN GRIDLINES H & J, VACATE TRACKS 36 & 37, AND PLATFORM R.
EXCLUSION ZONE 4	WHEN PERFORMING DEMOLITION BETWEEN GRIDLINES J & K, VACATE TRACKS 34 & 35, AND PLATFORM Q.

NOTE:

1. ALL WORK REQUIRING EXCLUSION ZONES SHALL BE PERFORMED DURING WEEKNIGHTS AND WEEKENDS.

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PLACE STICKER HERE		EXAMINER'S STAMP HERE	
TITLE _____ GROUND FLOOR OPENINGS BELOW GRADE EXCLUSION ZONE PLAN			
SEAL & SIGNATURE 		DRAWING BY: KC      DATE: 03/20/2020 PROJECT NO: 18211.03.00 ENGINEER: JS SCALE: AS NOTED CHK BY: JS DWG NO:	
3/20/20		DM-103.00	
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