HOIST HOUSE REHABILITATION PHASE II

QUINCY MINE HOIST ASSOCIATION

FRANKLIN TWP. HOUGHTON COUNTY, MICHIGAN

U.P. ENGINEERS & ARCHITECTS, INC.

100 PORTAGE STREET
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F (906) 779-0947

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C1 Project Vicinity Map
12" = 1'-0"

C2 CONTRACTOR STAGING AREA
12" = 1'-0"

SHEET INDEX

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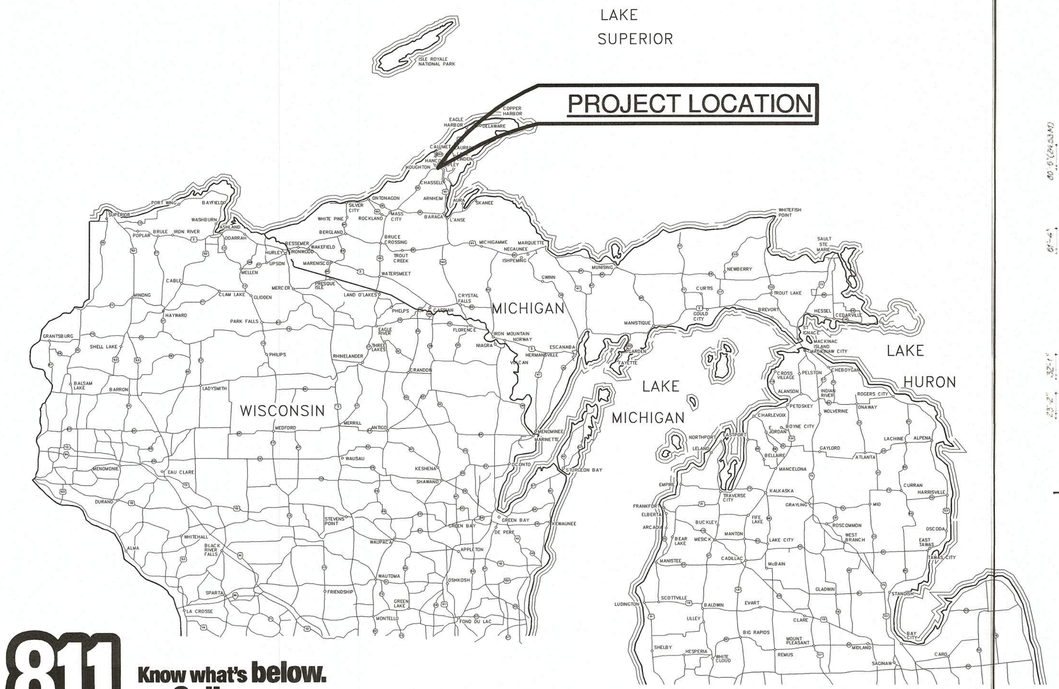
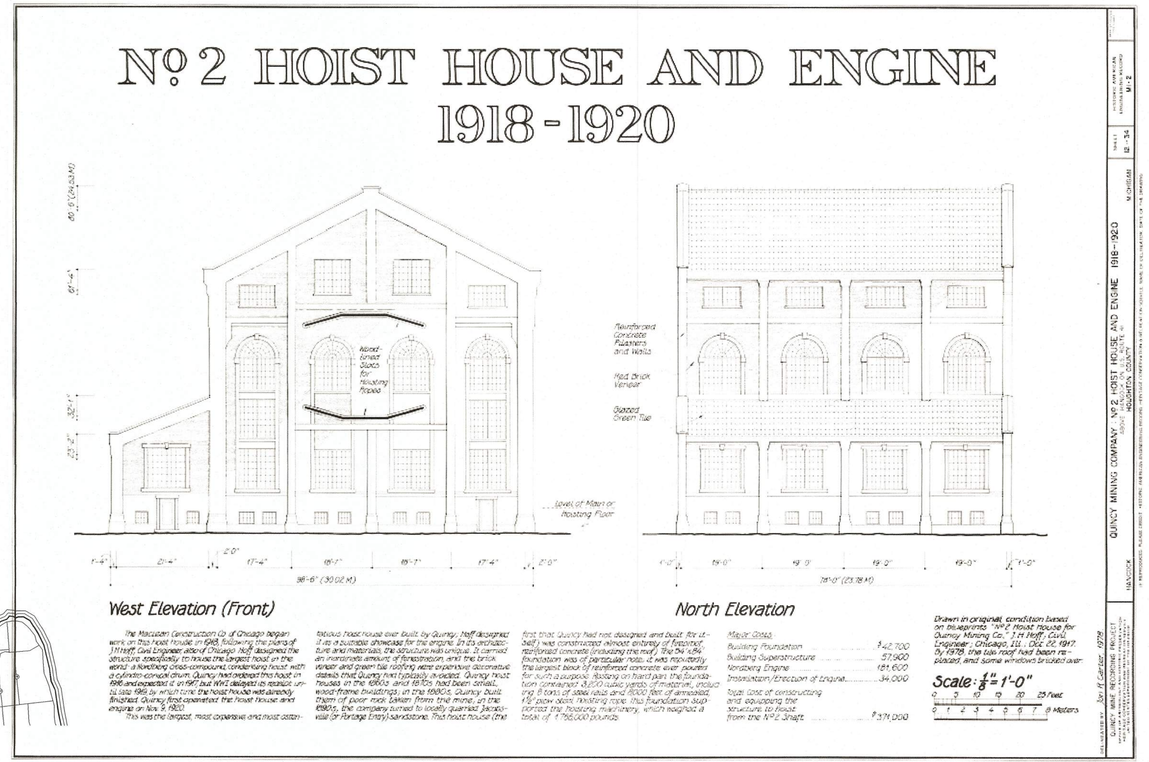
A603	ORIGINAL HOIST HOUSE COLUMN SCHEDULE

FOR INFORMATION ONLY

STATE OF MICHIGAN
GEORGE A. KIISKILA, JR.
ENGINEER
No. 33618
LICENSED PROFESSIONAL ENGINEER



811 Know what's **below.** **Call** before you dig.



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90% REVIEW	11/13/2020
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FRANKLIN TWP. HOUGHTON COUNTY, MICHIGAN

HOIST HOUSE REHABILITATION PHASE II
QUINCY MINE HOIST ASSOCIATION
PROJECT NO: Q31-00199

DESIGNED BY: GAK
DRAWN BY: MEL
CHECKED: GAK
APPROVED: GAK

COVER SHEET

G001

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MASONRY

A. MORTAR

1. MORTAR FOR USE IN NON-REINFORCED CONCRETE MASONRY SHALL CONFORM WITH THE PROPERTY OR PROPORTION REQUIRMEENTS OF ASTM C-270, MORTAR AND GROUT FOR REINFORCED MASONRY SHALL CONFORM WITH ASTM C-476 AND SHALL BE DESIGNED FOR A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. MORTAR SHALL ALSO MATCH EXISTING MASONRY WALL MORTAR IN COLOR AND CONSISTENCY.

2. THOROUGHLY MIX MORTAR INGREDIENTS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN QUANTITIES NEEDED FOR IMMEDIATE USE. RE-TEMPER ONLY WITHIN TWO HOURS OF MIXING. MASONRY GROUT COLOR PER OWNER AND ARCHITECT UNLESS NOTED OTHERWISE.

3. AGGREGATE FOR MORTAR SHALL MATCH THE COLOR AND TEXTURE OF THE EXISTING ENGINE HOUSE WALLS. THIS WILL REQUIRE A LOCAL STAMP SAND AGGREGATE. FINAL MIX DESIGN SHALL BE SUBMITTED TO AND APPROVED BY ARCHITECT/ENGINEER.

B. MASONRY UNITS

1. REUSE EXISTING STONE UNITES WHEN POSSIBLE.

2. WHEN ADDITIONAL MASONRY UNITS ARE NECESSARY, THESE SHALL BE LOCALLY ACQUIRED MINEROCK, BRICK OR SANDSTONE OF SOUND QUALITY MATCHING THE ROCK OF THE EXISTING HOIST HOUSE WALLS. NORMAL FACE SIZE PER DRAWING. THEY SHALL HAVE A UNIFORM TEXTURE AND `SHALL BE FREE OF CRACKS OR OTHER DEFECTS THAT WOULD IMPAIR THE STRENTH OR PERFORMANCE OF THE UNITS OR INTERFERE WITH PROPER SETTING.

3. THE AREAS UNDER THE WINDOW SILLS, AS INDICATED, ARE TO BE REPLACED WITH A CI-P CONCRETE PATCH IN A BRICK PATTERN. THE BRICK PATTERN IS STAINED ON THE EXTERIOR.

C. CLEANING

1. PAINT AND EXCESSIVE DIRT SHALLB E REMOVED USING SURE-KLEAN SAFSTRIP CLEANER OR DEITRICH 505 SPECIAL COATINGS STRIPPER OR SIMILAR PRODUCT OF EQUAL OR GREATER QUALITY.

D. REPOINTING

1. CUT OUT LOOSE OR DISINTEGRATED MORTAR IN JOINTS TO MINIMUM 3/4" DEPTH AND UNTIL SOUND MORTAR IS REACHED.

2. DO NOT DAMAGE MASONRY UNITS.

3. TOOLING OF NEW JOINTS SHALL MATCH EXISTING JOINTS.

E. MOCKUP

1. RESTORE AND REPOINT AN AREA ON DESIGNATED MASONRY WALL. MINIMUM 4 FEET LONG BY 2 FEET HIGH, USING APPROVED MORTAR MIX. ALLOW ENGINEER/ARCHITECT AND OWNER TO OBSERVE WORK AND APPROVE RESULTS ACCEPTED. MOCKUP MAY REMAIN IN PLACE.

SCOPE OF WORK ITEMS:

PRIORITY FOR SCOPE OF WORK:

VISITOR SAFETY

REMOVE LOOSE MATERIAL AND STABILIZE CONCRETE AND MASONRY.
SCAFFOLDING WILL BE A MAJOR EXPENSE, REPAIR SHALL CONCENTRATE ON THE EAST WALL, BOTH INTERIOR AND EXTERIOR.
WORK AREA SHALL START AT THE TOP AND GO TO THE HEIGHT OF THE CRANE HOIST ON THE INTERIOR, AND INCLUDE REPAIRING THE ARCH METAL WINDOWS.
APPROXIMATE HEIGHT OF "HIGH" WORK AREA IS 40' TO 70' ABOVE THE FLOOR LEVEL.

WORK ORDER:
BEGIN LOOSE CONCRETE REMOVAL WORK ON INTERIOR EAST WALL, START AT TOP
CONTINUE WORK ON EXTERIOR EAST WALL
MAKE BUILDING WEATHER TIGHT.

WORK ITEMS:

ITEM 1 INTERIOR EAST WALL - REMOVE LOOSE CONCRETE - START AT TOP, HIGH & LOW AREAS
ITEM 2 INTERIOR EAST WALL - STABILIZE CONCRETE PATCH, HIGH AREAS
ITEM 3 EXTERIOR EAST WALL - REMOVE LOOSE CONCRETE - START AT TOP
ITEM 4 EXTERIOR EAST WALL - STABILIZE CONCRETE PATCH, HIGH AREAS
ITEM 5 EXTERIOR EAST WALL - STABILIZE - CONCRETE PATCH, LOW AREAS

BASE BID FOR WORK ITEMS: 1, 2 AND 3

ADDITIVE ALTERNATE PRICES FOR WORK ITEMS: 4 AND 5

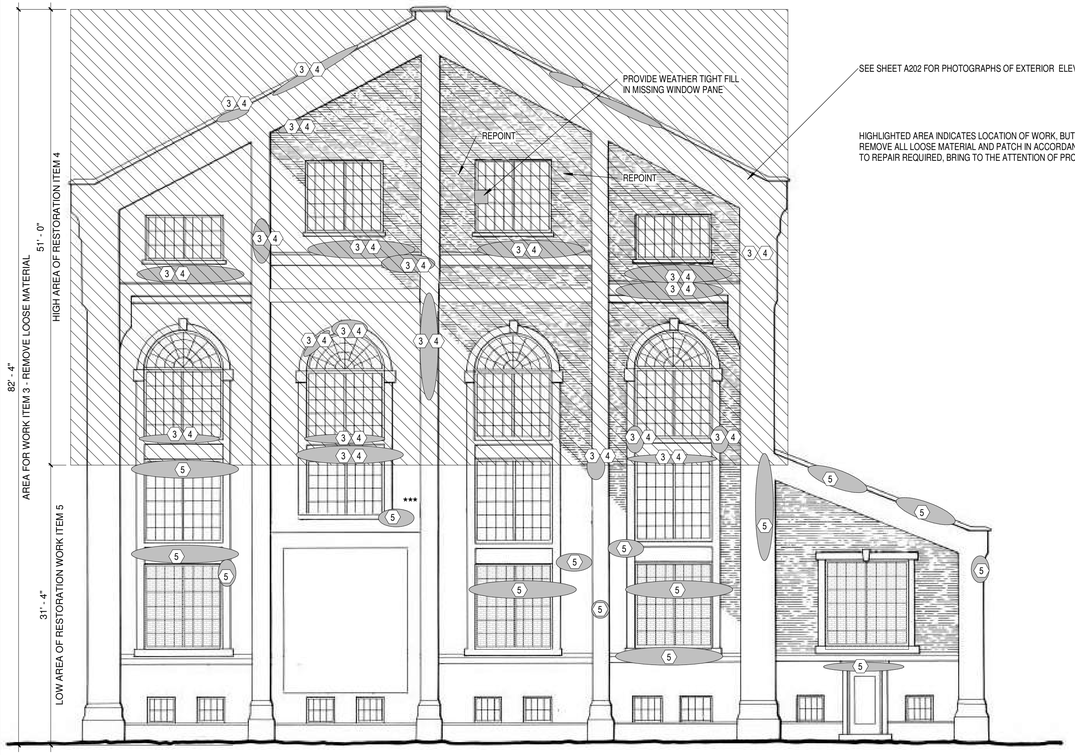
****SEE DETAIL C1/A501 FOR STANDARD CONCRETE REMOVAL**

GENERAL NOTES:

1. NEW MORTAR SHALL MATCH EXISTING MORTAR COLOR, TEXTURE AND CONPOSITION AS CLOSELY AS POSSIBLE (SEE SHEET C101 AND SPECIFICATION SECTION 04 01 00).
2. NEW CONCRETE SHALL MATCH EXISTING AS CLOSELY AS POSSIBLE (SEE SHEET C101 AND SPEC SECTION 03 01 00).
3. ALL KEYNOTES LISTED MAY NOT APPLY TO EACH SHEET.

INTERIOR EAST QUANTITIES AS FOLLOWS:

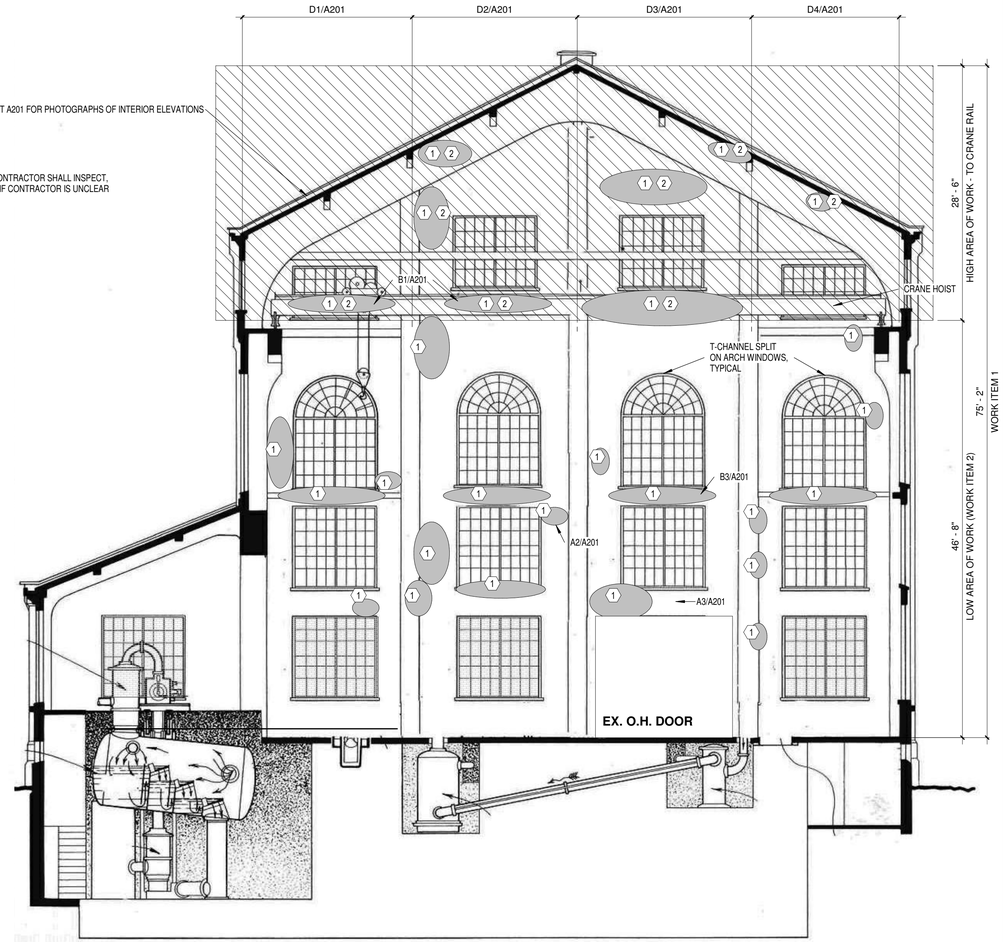
1. REPOINTING - ASSUME 500 SQ. FT.
2. CONCRETE SURFACE REPAIR - ASSUME 1200 SQ. FT. OF WALL SURFACE.
3. CONCRETE SPAWLING RECONSTRUCTION - ASSUME 350 SQ. FT.



SEE SHEET A202 FOR PHOTOGRAPHS OF EXTERIOR ELEVATIONS

HIGHLIGHTED AREA INDICATES LOCATION OF WORK, BUT DOES NOT DOES NOT LIMIT REPAIR. CONTRACTOR SHALL INSPECT, REMOVE ALL LOOSE MATERIAL AND PATCH IN ACCORDANCE TO DETAILS ON SHEETS A501-A502. IF CONTRACTOR IS UNCLEAR TO REPAIR REQUIRED, BRING TO THE ATTENTION OF PROJECT ENGINEER.

SEE SHEET A201 FOR PHOTOGRAPHS OF INTERIOR ELEVATIONS



A1 EAST EXTERIOR ELEVATION DRAWING
1/8" = 1'-0"

A2 EAST INTERIOR DRAWING ELEVATION
1/8" = 1'-0"

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APPROVED: GAK

EAST WALL ELEVATIONS

A201

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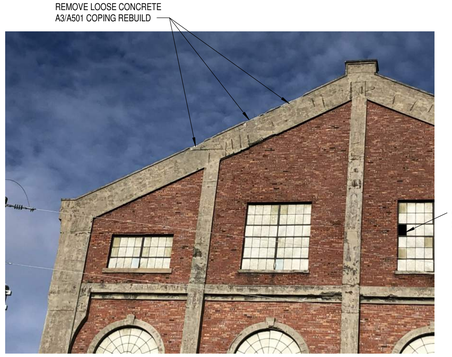
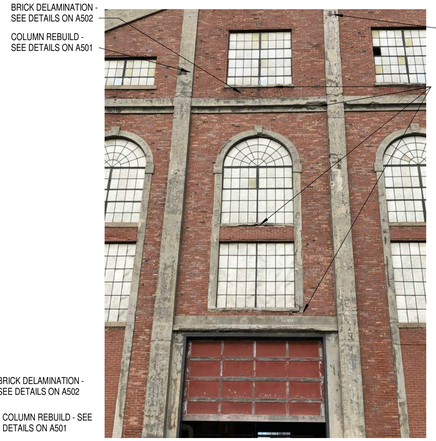
D1 EXTERIOR EAST ELEVATION
12" = 1'-0"



D2 EXTERIOR EAST - UPPER LEFT QUADRANT
12" = 1'-0"

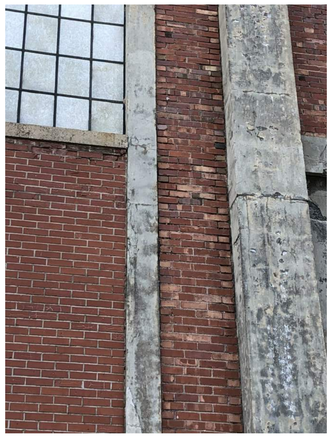
D3 EXTERIOR EAST - UPPER RIGHT QUADRANT
12" = 1'-0"

B1 WINDOW 'X'
12" = 1'-0"



B2 BRICK BELOW ARCH WINDOW
12" = 1'-0"

B3 EXTERIOR - BRICK
12" = 1'-0"



B4 EXTERIOR - 1
12" = 1'-0"

A1 EXTERIOR - 2
12" = 1'-0"

A2 EXTERIOR - 3
12" = 1'-0"

A3 EXTERIOR - 4
12" = 1'-0"

(LOW EXTERIOR WORK -
(WORK ITEM 4)

A4 EXTERIOR - 5
12" = 1'-0"

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DESIGNED BY: GAK
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APPROVED: GAK

PHOTO'S EXTERIOR EAST WALL

A202

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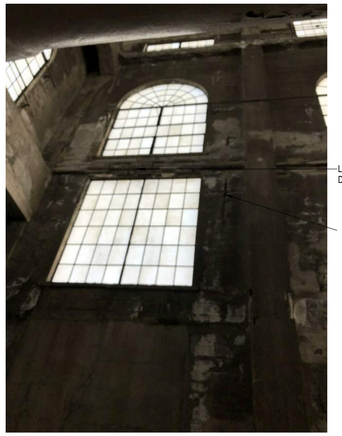
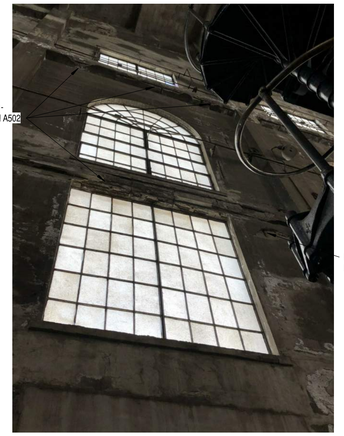
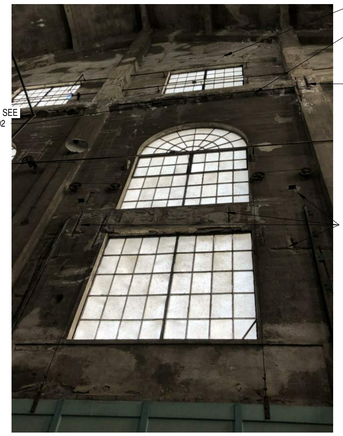


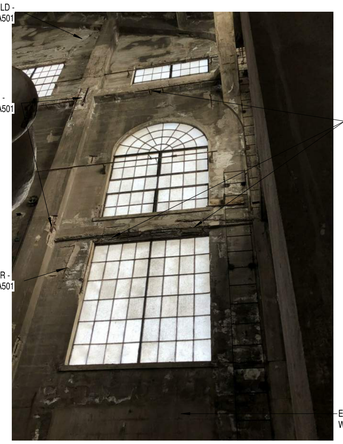
D1 INTERIOR - 5
12" = 1'-0"



D2 INTERIOR - 4
12" = 1'-0"



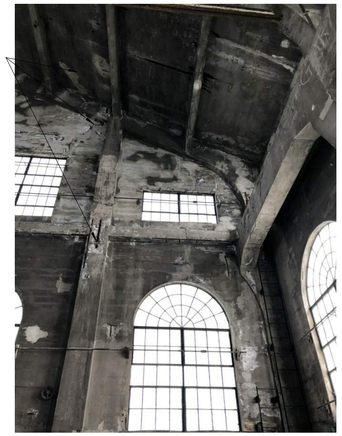
D3 INTERIOR - 3
12" = 1'-0"



D4 INTERIOR - 2
12" = 1'-0"

B1 INTERIOR - 9
12" = 1'-0"

B3 INTERIOR - 7
12" = 1'-0"



B4 INTERIOR - 1
12" = 1'-0"

A2 INTERIOR - 8
12" = 1'-0"

A3 INTERIOR - 6
12" = 1'-0"

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DESIGNED BY: GAK
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APPROVED: GAK

PHOTO'S INTERIOR EAST WALL

A203

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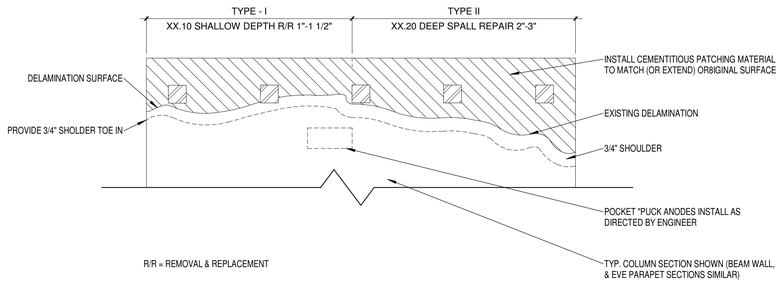
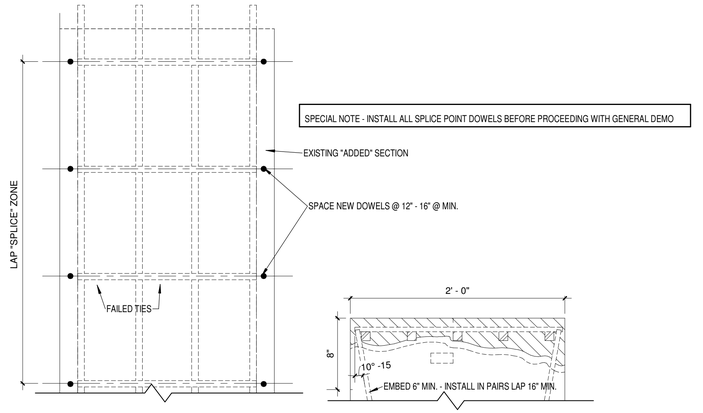
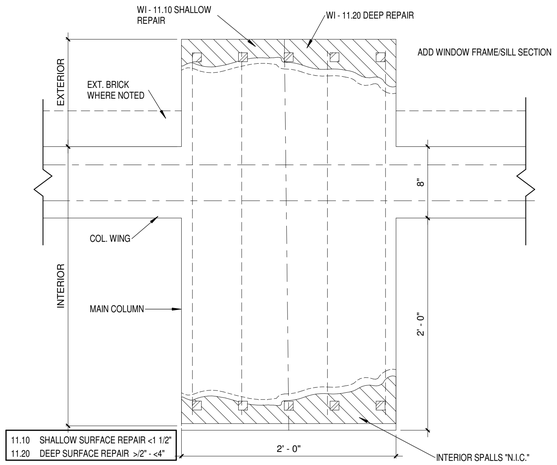


NOTES:
1. CHIP BACK TO SOUND "UNFRACTURED" CONCRETE
2. CLEAN & COARROSION COAT ALL EXPOSED REBAR
3. INSTALL SACRIFICIAL ANODES AS DIRECTED BY ENGINEER
4. PREWET ALL BOND SURFACES 10 MIN. PRIOR TO PATCH PLACEMENT
5. USE ALL APPROPRIATE MEANS TO CONSOLIDATE CONC. IN 8" MAXIMUM LIFTS - SUBMIT DETAILED PROCEDURE FOR PRESSURE APPLIED PLACEMENT MTHODS.
6. PROTECT & CURE ALL REPLACEMENT CONCRETE TO MINIMIZE DRYING SHRINKAGE
7. SOUND ALL REPLACEMENT SURFACES FOR BONDING & REPLACE BOND FAILED SECTIONS.

C1 STANDARD CONCRETE REMOVAL SECTION
3" = 1'-0"



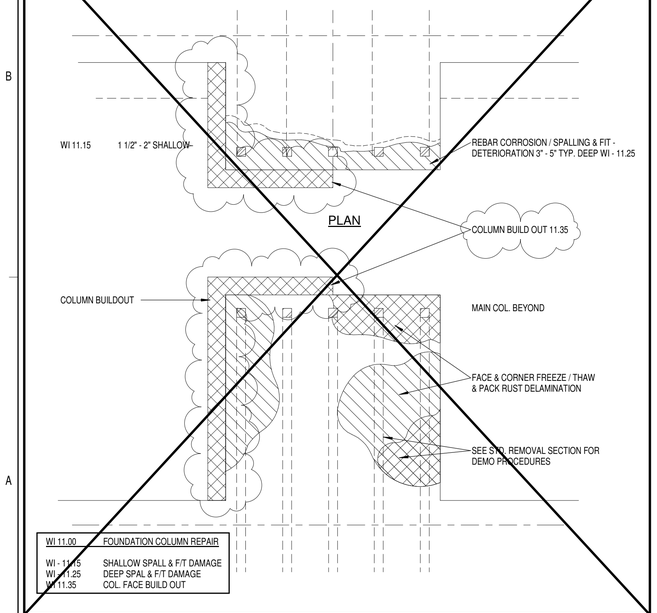
C3 TYPICAL DOWEL INSTALLATION - FURNISH & INSTALL @ ALL COLUMN SPLICE POINTS - TO REPLACE FAILED TIES
1 1/2" = 1'-0"



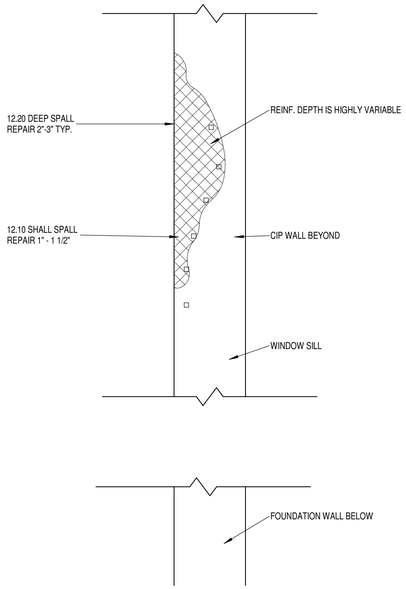
NOTE: INTERIOR FACE SPALLS SIMILAR

C4 TYPICAL WALL COLUMN SECTION - WITH WING WALLS
1 1/2" = 1'-0"

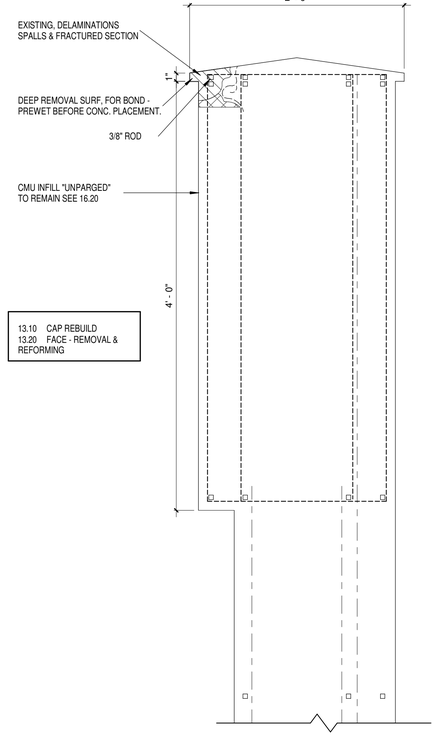
DETAIL NOT USED ON THIS PROJECT



A1 FOUNDATION COLUMN REPAIR
1 1/2" = 1'-0"

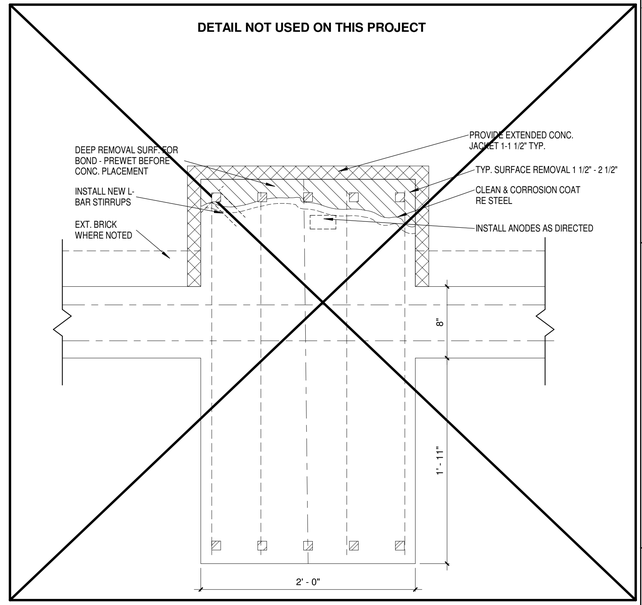


A2 EXTERIOR COMMON WALL REPAIR
1 1/2" = 1'-0"



A3 COPING REBUILD - DAMAGE / DEMO SECTION
1 1/2" = 1'-0"

DETAIL NOT USED ON THIS PROJECT



11.30 COLUMN REPAIR TYPE III - ADDED SECTION
11.35 FOUNDATION SECTION TYPE III - SIMILAR

A4 TYPICAL WALL COLUMN SECTION - WITH WING WALLS 2
1 1/2" = 1'-0"

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DETAILS

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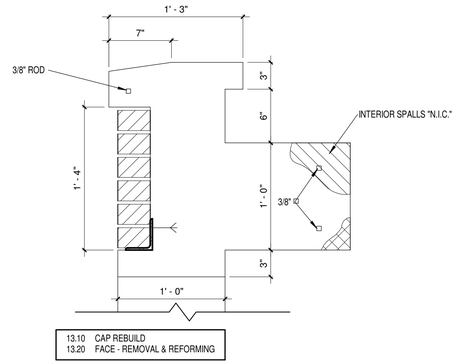
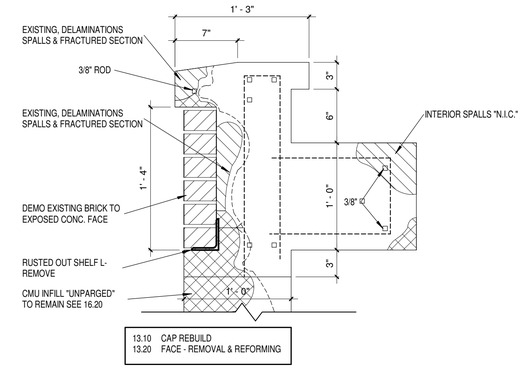
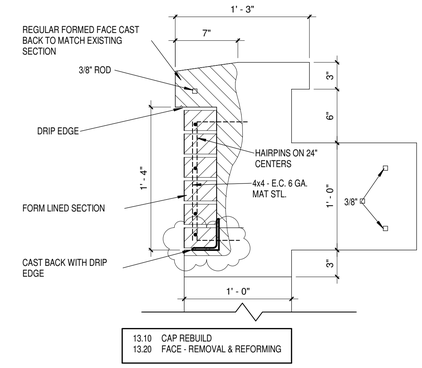


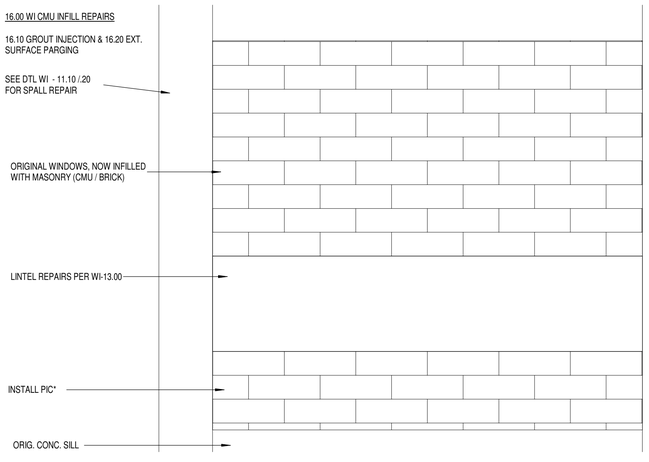
D1 LINTEL REBUILD - EXISTING SEC.
1 1/2" = 1'-0"



D2 LINTEL REBUILD - DAMAGE / DEMO SECTION
1 1/2" = 1'-0"



D3 LINTEL REBUILD - PUT BACK SECTION
1 1/2" = 1'-0"



NOTES:
1. THE ORIG. WINDOW FRAME WAS REMOVED PREVIOUSLY & THE OPENING WAS BLOCKED UP WITH LAID CMU'S
2. NO SURFACE PARGING WAS APPLIED TO THE EXTERIOR FACE FOR WATERPROOFING - CONSIDERABLE LEAKING RESULTS
3. INSTALL SURFACE CEMENTITICIOUS COATING BY THORO SEAL - SUBMIT MFTR SHOPS & SPECS
4. INJECT FOAM "PIC" GROUT TO LOWER (2) COURSES OF BLOCK

PIC = POLY - ISO-CYANATE "GREAT STUFF" FILL TO ALL BLOCKS IN LOWER TWO COURSES. ALL BLOCKED IN WINDOWS

B1 16.00 WI - CMU INFILL REPAIRS
1 1/2" = 1'-0"

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DETAILS

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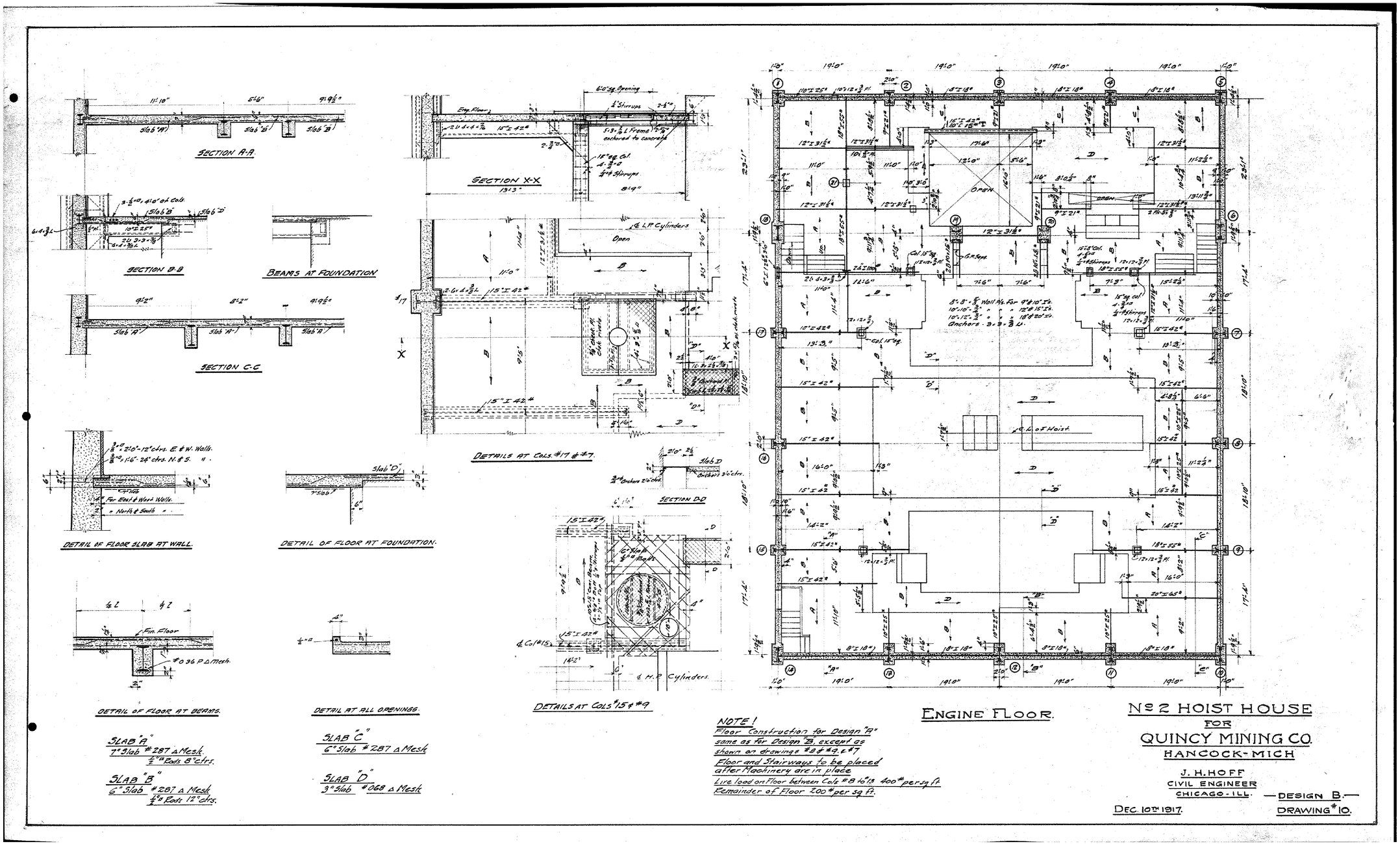

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HOIST HOUSE REHABILITATION PHASE II

QUINCY MINE HOIST ASSOCIATION

FRANKLIN TWP. HOUGHTON COUNTY, MICHIGAN

ISSUED FOR:	DATE:
60% REVIEW	10/19/2020
80% REVIEW	11/3/2020
100% REVIEW	12/18/2020
BIDDING	02/05/21

HOIST HOUSE REHABILITATION PHASE II
QUINCY MINE HOIST ASSOCIATION
PROJECT NO: Q31-00199

DESIGNED BY: GAK
DRAWN BY: MEL
CHECKED: GAK
APPROVED: GAK

ORIGINAL ENGINE FLOOR PLAN AND DETAILS

A601

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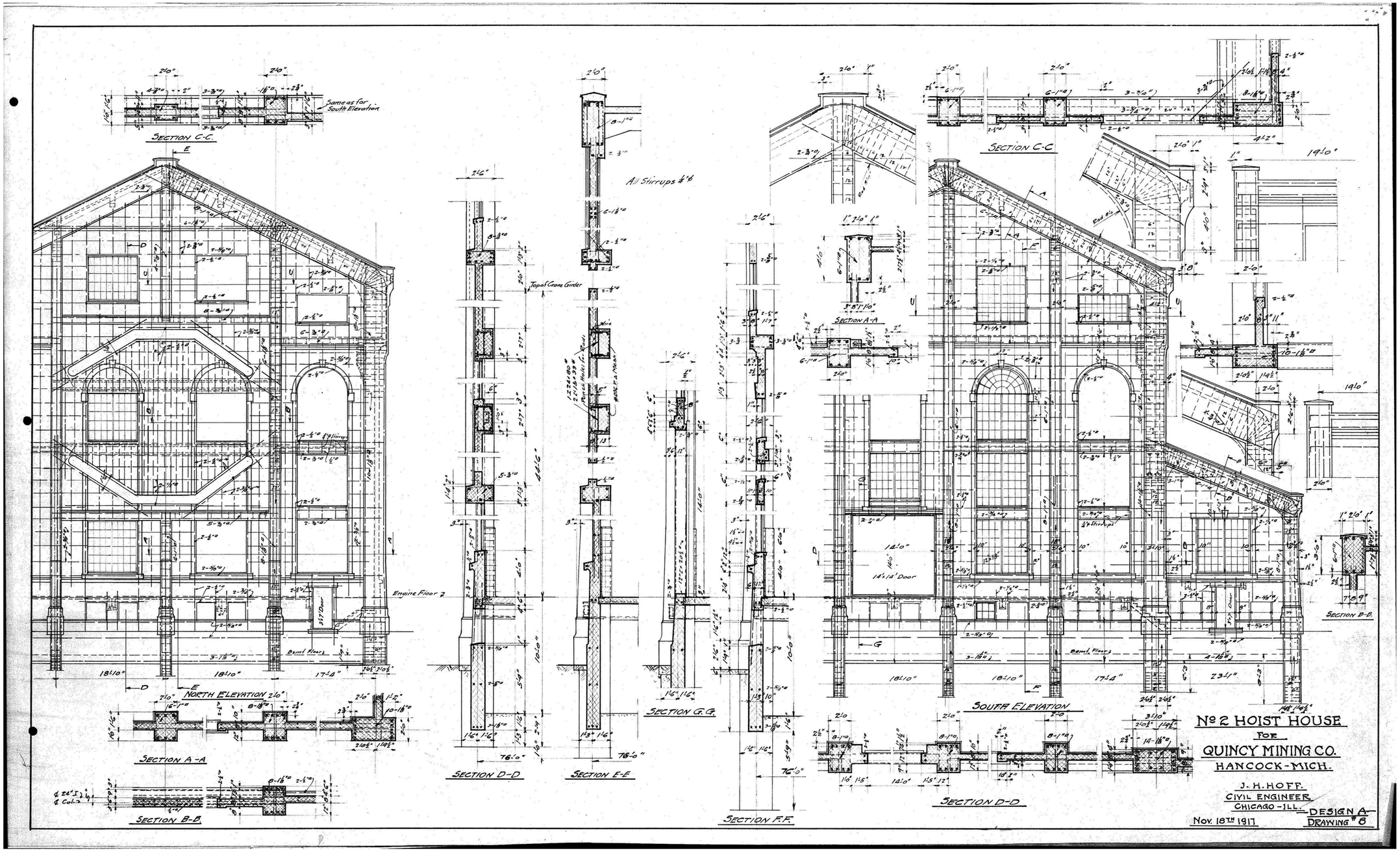

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HOIST HOUSE REHABILITATION PHASE II

QUINCY MINE HOIST ASSOCIATION

FRANKLIN TWP. HOUGHTON COUNTY, MICHIGAN

ISSUED FOR:	DATE:
60% REVIEW	10/19/2020
90% REVIEW	11/30/2020
100% REVIEW	12/18/2020
BIDDING	02/05/21

HOIST HOUSE REHABILITATION
PHASE II
QUINCY MINE HOIST ASSOCIATION
PROJECT NO: Q31-00199

DESIGNED BY: GAK
DRAWN BY: MEL
CHECKED: GAK
APPROVED: GAK

ORIGINAL HOIST HOUSE SECTIONS

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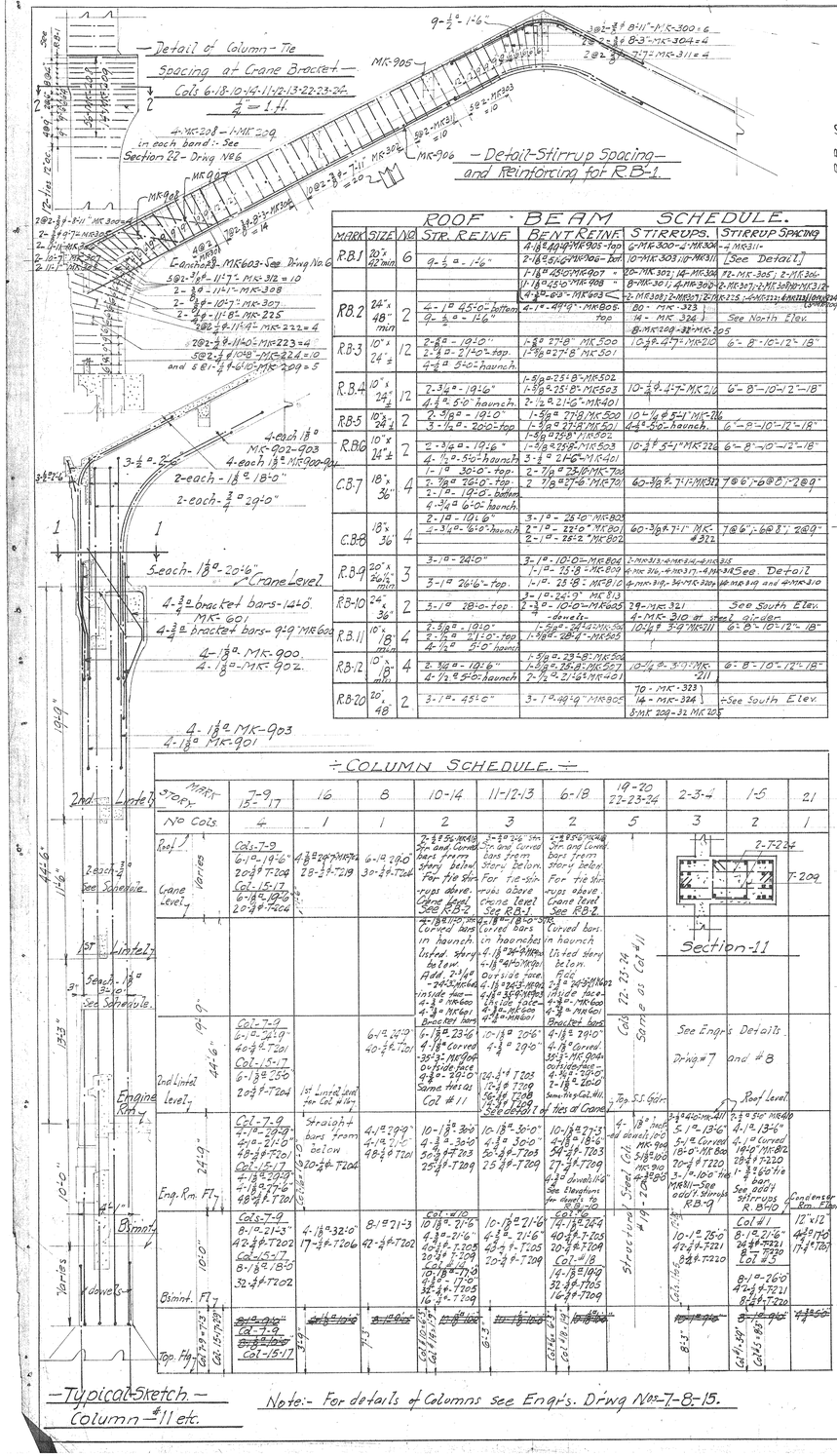


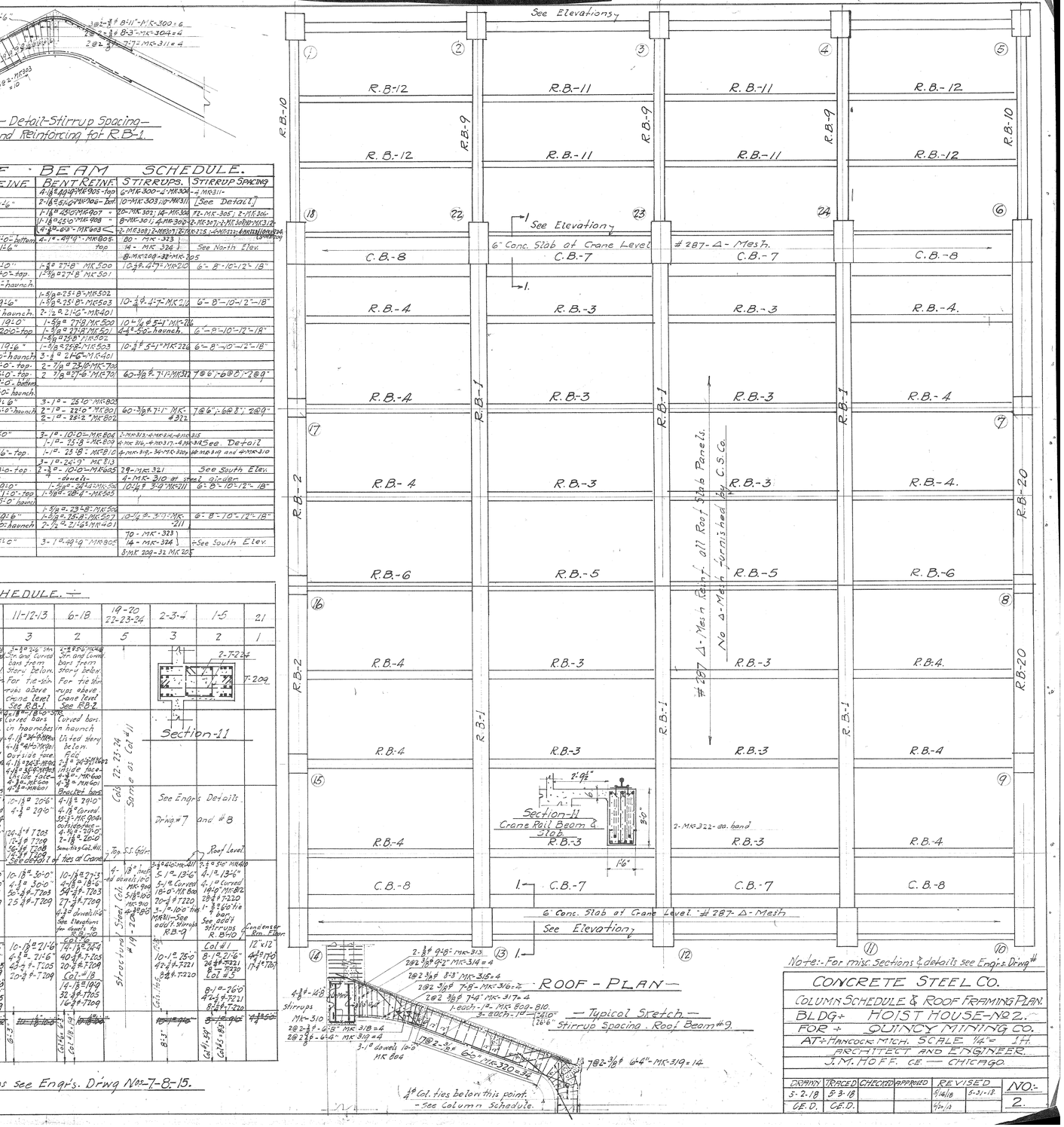
ROOF BEAM SCHEDULE.

MARK	SIZE	NO	STR. REINF.	BENT REINF.	STIRRUPS.	STIRRUP SPACING
R.B.1	20" x 42" min	6	9 - 1" ø - 14'	4-1⅛" ø MK-905 top 2-1⅛" ø MK-906 - bot	6-MK-300 - 2-MK-304 - 4 MK-311 10-MK-303; 10-MK-311 [See Detail]	
R.B.2	24" x 48" min	2	4 - 1" ø 45'-0" bottom 9 - ½" ø - 15'6"	1-1⅛" ø 255'0" MK-907 + 2-MK-301; 1-1⅛" ø 255'0" MK-908 + 2-MK-303 4-⅞" ø - 60'-8" MK-903 4-1" ø - 49'9" MK-905 top	26-MK-301; 14-MK-304; 8-MK-303; 4-MK-309; 2-MK-307; 2-MK-308 2-MK-308; 2-MK-307; 2-MK-325; 6-MK-222; 4-MK-223; 4-MK-224; 4-MK-225; 4-MK-226 80 - MK - 323; 14 - MK - 324; 8-MK-209 - 32-MK-205	#2-MK-305; 2-MK-306 See North Elev.
R.B.3	10" x 24" ±	12	2-⅞" ø - 10'-10" 2-¾" ø - 21'-0" top 4-½" ø 5'-0" haunch	1-⅞" ø 27'-8" MK-500 1-⅞" ø 27'-8" MK-501	10-½" ø 4'7" - MK-210	6'-8"-10'-12"-18"
R.B.4	10" x 24" ±	12	2-¾" ø - 19'6" 4-½" ø 5'0" haunch	1-⅝" ø 25'8" MK-502 1-⅝" ø 25'8" MK-503 2-½" ø 21'2" MK-401	10-½" ø 4'7" MK-210	6'-8"-10'-12"-18"
R.B.5	10" x 24" ±	2	2-3⅛" ø - 19'10" 3-1" ø - 20'0" top	1-⅝" ø 27'8" MK-500 1-⅝" ø 27'8" MK-501	10-½" ø 5'-1" MK-214 4-½" ø 5'0" haunch	6'-8"-10'-12"-18"
R.B.6	10" x 24" ±	2	2-⅞" ø - 19'6" 4-1¼" ø 5'0" haunch	1-⅝" ø 25'8" MK-502 1-⅝" ø 25'8" MK-503 3-½" ø 21'2" MK-401	10-½" ø 5'-1" MK-226	6'-8"-10'-12"-18"
C.B.7	18" x 36"	4	1-1" ø 30'0" top 2-⅞" ø 26'0" top 2-1" ø - 19'0" bottom 4-3½" ø 6'0" haunch	2-7/8" ø 73'0" MK-504 2-7/8" ø 27'6" MK-701	60-⅜" ø 7'1" MK-327	7@6"; 6@8"; 2@9"
C.B.8	18" x 36"	4	2-1" ø - 10'6" 2-3½" ø 6'0" haunch	3-1" ø - 25'0" MK-802 2-1" ø - 22'6" MK-801 2-1" ø - 22'2" MK-802	60-⅜" ø 7'1" MK-#312	7@6"; 6@8"; 2@9"
R.B.9	20" x 24½" min	3	3-1" ø - 24'0" 3-1" ø 26'6" top	3-1" ø - 10'0" - MK-806 1-1" ø - 15'8" - MK-805 1-1" ø - 23'8" - MK-810	2-MK-313; 4-MK-314; 4-MK-315 4-MK-316; 4-MK-317; 4-MK-318 4-MK-319; 34-MK-320	See Detail See MK-319 and 4-MK-310
R.B.10	24" x 36"	2	3-1" ø 28'0" top	2-1" ø - 22'0" MK-813 2-⅞" ø - 10'0" - MK-805 ⅞" ø - donuts	29-MK-321 4-MK-310 at steel girder	See South Elev.
R.B.11	10" x 18" min	4	2-3½" ø - 10'0" 2-1" ø - 21'0" top 4-½" ø 5'0" haunch	1-⅝" ø - 28'4" - MK-504 1-⅝" ø - 28'4" - MK-505	10-½" ø 5'-9" MK-211	6'-8"-10'-12"-18"
R.B.12	10" x 18" min	4	2-3½" ø - 19'6" 4-½" ø 5'0" haunch	1-⅝" ø 29'8" MK-506 1-⅝" ø 28'8" MK-507 7-½" ø 21'6" MK-401	10-½" ø 5'-11" MK-211	6'-8"-10'-12"-18"
R.B.20	20" x 48"	2	3-1" ø 45'0"	3-1" ø 49'9" MK-905	70 - MK - 323; 14 - MK - 324; 8-MK 209 - 32 MK 205	÷See South Elev.

÷COLUMN SCHEDULE.÷

Mark / Story	7-9 / 15-17	16	8	10-14	11-12-13	6-18	19-20 / 22-23-24	2-3-4	1-5	21
No Cols.	4	1	1	2	3	2	5	3	2	1
Roof / Crane Level	Cols-7-9: 6-1"ø-19'-6", 20-¾"ø T-209; Col-15-17: 6-1⅛"ø-19'-6", 20-¾"ø-T-206	4-⅞"ø 20'-7" MK-874; 28-¾"ø-T219	6-1"ø 29'0"; 30-¾"ø-T206	2-3"ø 56'-10" Str. and Curved bars from story below. For tie-rods above Crane Level See RB-2	3-3"ø 24'-3" Str. and Curved bars from story below. For tie-rods above Crane level See RB-1	2-3"ø 56'-10" Str. and Curved bars from story below. For tie-rods above Crane Level See RB-2	Cols 22-23-24 Same as Col #11	2-7-2¾ T-209; Section-11		
Varies				For tie-rods above Crane Level. Curved bars in haunch. Extend 2-1⅛" ø 240'-5" MK-506 outside face inside face 4-1⅛" ø MK-500 4-⅞" ø MK-501 bracket bars	4-1⅛" ø 240'-5" MK-502 outside face 4-1⅛" ø 56'-10" MK-504 inside face 4-⅞" ø MK-503 4-⅞" ø MK-501	Curved bars in haunches 4-1⅛" ø 24'-0" MK-504 4-1⅛" ø 40'-0" MK-505 Outside face 4-1⅛" ø 56'-10" MK-506 inside face 4-⅞" ø MK-500 4-⅞" ø MK-501	United story below. Ext. 2-⅞" ø 240'-5" MK-502 inside face 2-⅞" ø 240'-5" MK-503 outside face 4-⅞" ø MK-500 4-⅞" ø MK-501 Bracket bars		
2nd Lintel / Engine Level / 10'-9" / 44'-6"	Col-7-9: 6-1"ø-21'-9", 40-¾"ø T-201; Col-15-17: 6-1⅛"ø-25'0", 20-¾"ø-T-204		6-1"ø 29'9", 40-¾"ø-T201	6-1⅛"ø 23'6", 4-⅞" ø Curved 35'-3" MK-508 outside face 4-⅞" ø - 29'0" Same ties as Col #11	10-1⅛"ø 20'6", 4-⅞"ø 29'0" 12-1¼" ø T205 12-¾" ø T209 See detail of ties at Crane Level	4-1⅛"ø 29'10" Curved bars 35'-3" MK-509 outside face 4-1⅛"ø 24'-0" 7-1⅛"ø 20'0" Same ties as Col #11	Top S.S. Girder	See Engr's Details Drwg #7 and #8 Roof Level		
1st Lintel / Eng. Rm. Fl. / 24'-9"	Col-7-9: 4-1⅛"ø 29'-9", 4-1"ø 21'-0", 48-¾"ø T-201; Col-15-17: 4-1⅛"ø 27'-6", 4-1"ø 19'-9", 48-¾"ø T-204	Straight bars from below 20-¾"ø-T206	4-1"ø 29'9", 4-1"ø 21'0", 48-¾"ø T201	10-1⅛"ø 30'0", 4-⅞"ø 30'0", 50-¾"ø T203, 25-¾"ø-T209	10-1⅛"ø 30'0", 4-⅞"ø 30'0", 50-¾"ø T203, 25-¾"ø-T209	10-1⅛"ø 27'3", 4-⅞"ø 18'6", 54-¾"ø T203, 27-¾"ø T209	4-1⅛" ø inst. 4 dowels 10'0" MK-804; 5-⅜"ø 106'0" MK-320; 20-¾"ø T220; 3-½"ø 160'0" ties MK811 - See addl stirrups R.B-9	3-¾"ø 40'0" MK-411; 5-1"ø 13'6"; 5-1"ø Curved 18'0" MK-812; 20-¾"ø T220; 1-⅜"ø 160'0" tie bar; See addl stirrups R.B10	2-3"ø 56" MK-810; 4-1"ø 13'6"; 4-1"ø Curved 16'2" MK-812; 20-¾"ø T220; 8-¾"ø T220	Condenser Bar Elev.
Basmt. Fl. / 10'-0" / Varies / dowels	Col-7-9: 8-1"ø 21'-3", 42-¾"ø T202; Col-15-17: 8-1⅛"ø 18'0", 32-¾"ø T202	4-1⅛"ø 32'0", 17-¾"ø-T206	8-1"ø 21'-3"	4-1⅛"ø 21'6", 42-¾"ø T202	10-1⅛"ø 21'6", 4-⅞"ø 21'6", 42-¾"ø T205, 20-¾"ø T209	10-1⅛"ø 21'6", 40-¾"ø T205, 20-¾"ø T209	4-1⅛" ø inst. 4 dowels 10'0" MK-804	10-1"ø 26'0", 42-¾"ø T221, 8-¾"ø T220	Col #11: 8-1"ø 21'6", 44-¾"ø T221, 8-¾"ø T220; Col #5: 8-1"ø 26'0", 42-¾"ø T221, 8-¾"ø T220	12"x12" 44-¾"ø T-221, 17-¾"ø T220
Top. Fig.	Col-7-9: ~~8-1"ø 21'-3", 42-¾"ø T-202~~; Col-15-17: ~~8-1⅛"ø 18'0", 32-¾"ø T-202~~	~~4-⅞"ø 20'-7" MK-874; 28-¾"ø-T219~~	~~6-1"ø 29'0"; 30-¾"ø-T206~~	~~2-3"ø 56'-10" Str. and Curved bars from story below. For tie-rods above Crane Level See RB-2~~	~~3-3"ø 24'-3" Str. and Curved bars from story below. For tie-rods above Crane level See RB-1~~	~~2-3"ø 56'-10" Str. and Curved bars from story below. For tie-rods above Crane Level See RB-2~~	~~Cols 22-23-24 Same as Col #11~~	~~2-7-2¾ T-209; Section-11~~	~~1-5~~	~~21~~

Note:- For details of Columns see Engr's. Drwg Nos-7-8-15.



CONCRETE STEEL CO.
COLUMN SCHEDULE & ROOF FRAMING PLAN.
BLDG÷ HOIST HOUSE-NO 2.
FOR ÷ QUINCY MINING CO.
AT÷ HANCOCK MICH. SCALE 1/4" = 1'.
ARCHITECT AND ENGINEER.
J.M. HOFF. CE — CHICAGO.

DRAWN	TRACED	CHECKED	APPROVED	REVISED		NO:-
3-2-18	5-3-18			4/4/18	5-31-18.	2.
C.E.D.	C.E.D.			4/9/18		

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ORIGINAL HOIST HOUSE COLUMN SCHEDULE

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