

## LIFE SAFETY SUMMARY

**PROJECT DESCRIPTION:**  
TO ADD MANUFACTURED SHEDS ON THE B4 LEVEL

**SITE INFORMATION:**  
PP NO: 101-60 (17, 18, 19, 20, 24, 25, 36)  
300 LANESIDE AVE, CLEVELAND, OH 44113

**APPLICABLE CODES:**  
2017 OHIO BUILDING CODE W/2017 UPDATES  
2017 NATIONAL ELECTRIC CODE  
2017 OHIO FIRE CODE  
2012 INTERNATIONAL ENERGY EFFICIENCY CODE

**CODE SUMMARY:**

**USE CLASSIFICATION:**  
SECTION 311 S-1

**GENERAL EXISTING BUILDING DATA:**  
SECTION 602 TYPE OF CONSTRUCTION 2B

**BUILDING FIRE RESISTANCE RATINGS FOR EXTERIOR WALLS**

TABLE 602 FIRE RATING OF EXTERIOR WALL BASED ON SEPARATION DISTANCE  
X=0 2 HOUR FOR S-1

**PROJECT AREA:**  
STORAGE SHED ADDITION: 450 SF

## DRAWING INDEX

30-A01 URBAN FARM CONCRETE PADS

## PROJECT TEAM

**CLIENT**

SMG  
1 ST CLAIR AVENUE, NE  
MEZZANINE LEVEL  
CLEVELAND, OH 44114

**BUILDING OWNER**

CUYAHOGA COUNTY CONVENTION FACILITIES  
DEVELOPMENT CORPORATION  
1 ST CLAIR AVENUE, NE  
3RD FLOOR  
CLEVELAND, OH 44114

**ARCHITECT**

RICHARD L. BOWEN & ASSOCIATES INC.  
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CLEVELAND, OHIO 44120  
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Contact Person: KEN CHOW

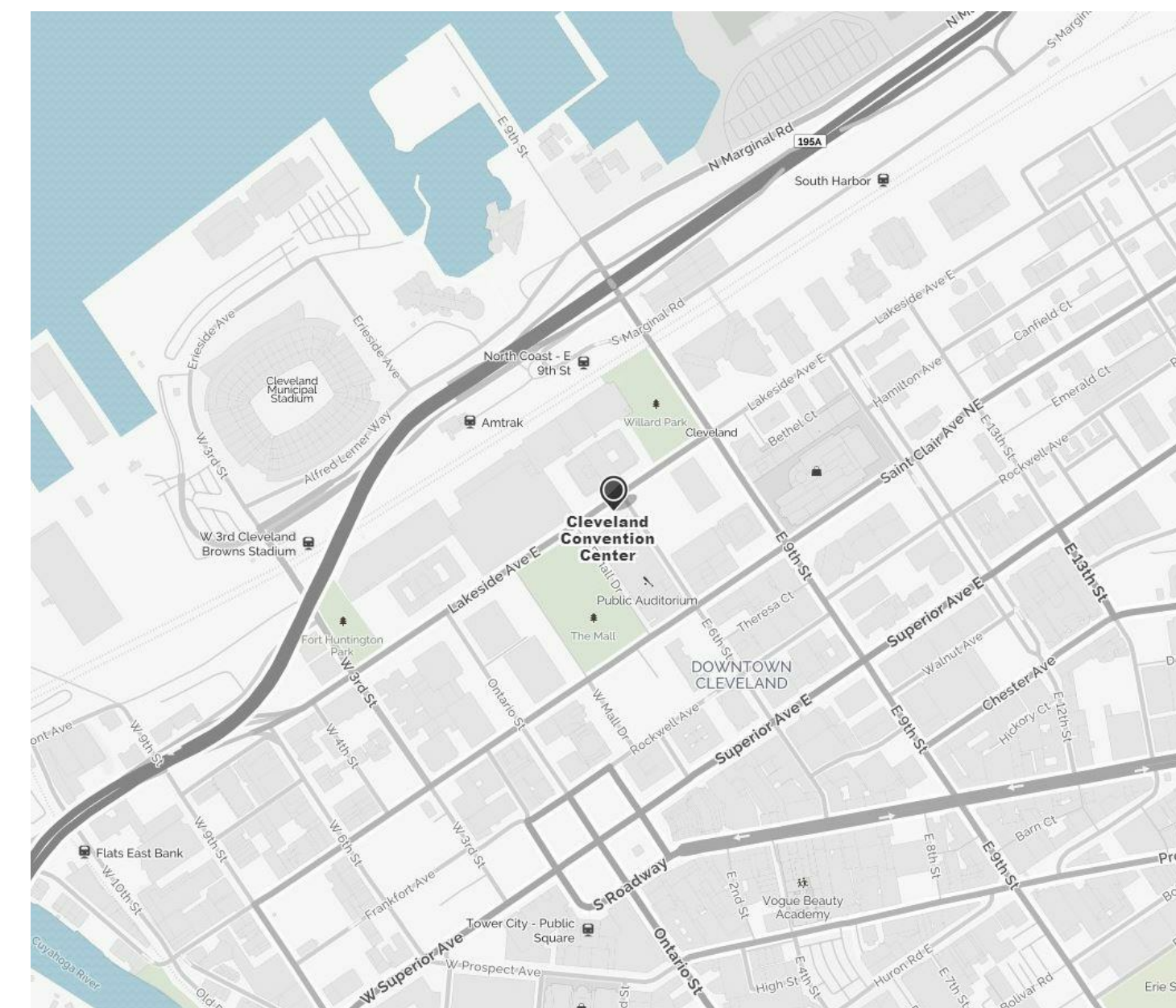
**STRUCTURAL ENGINEER**

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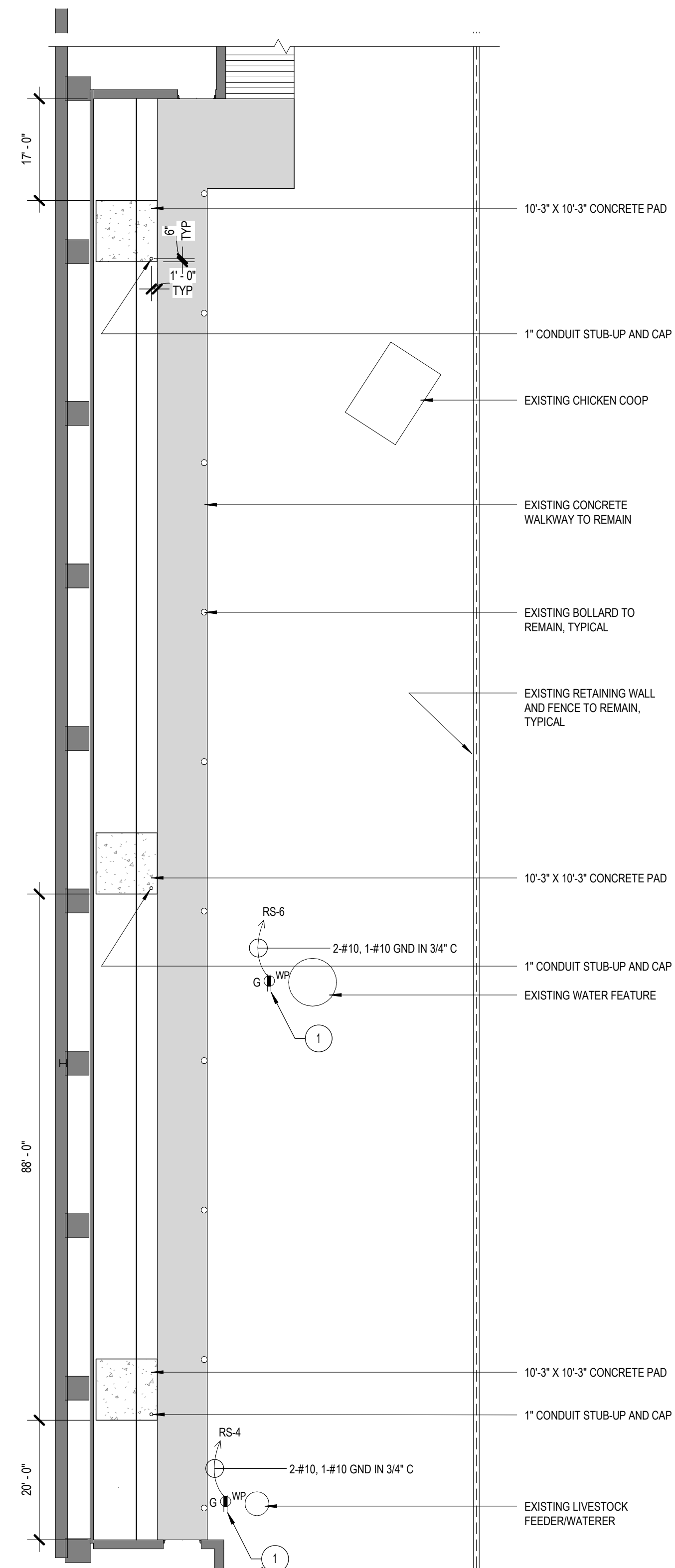
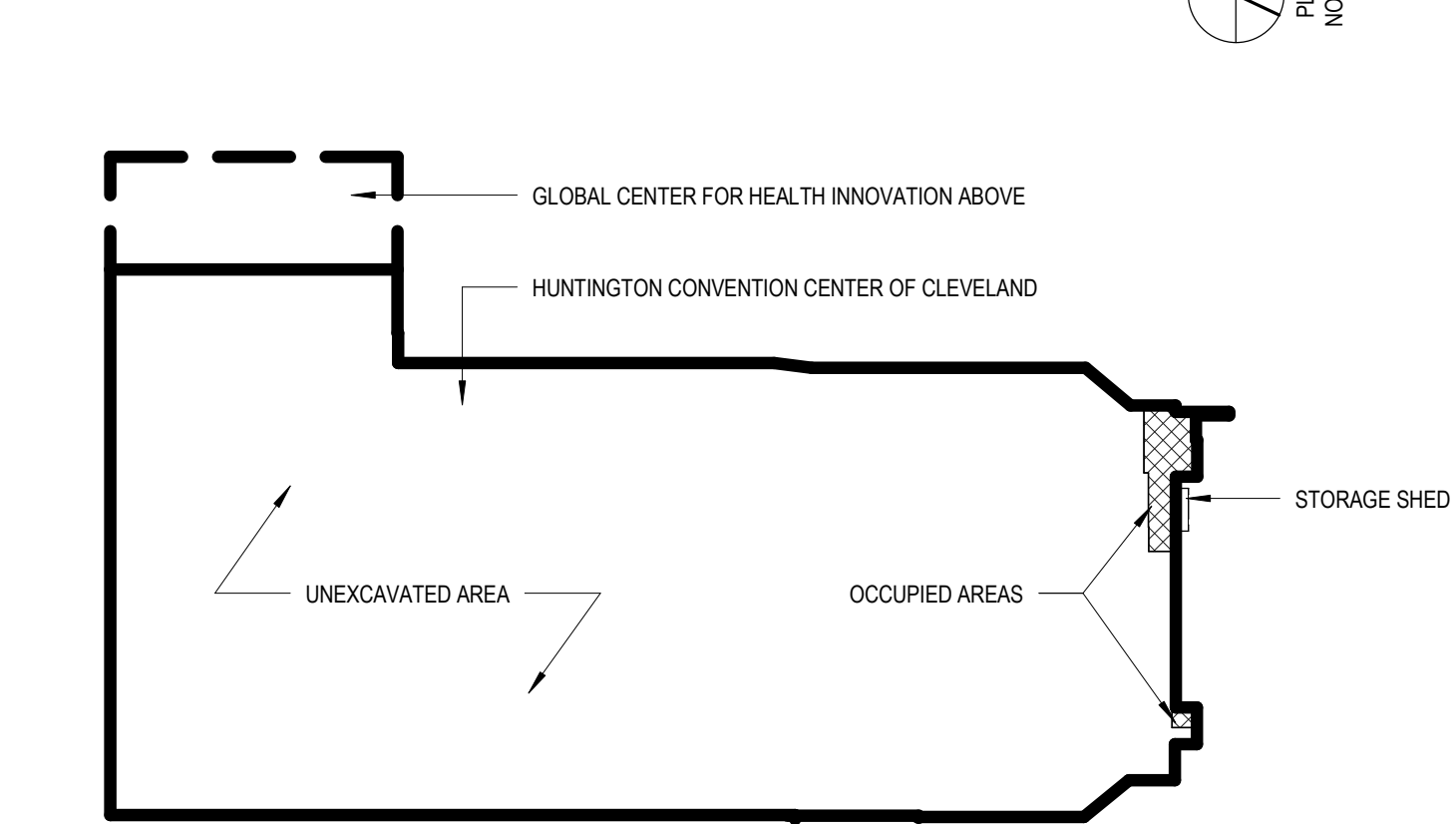
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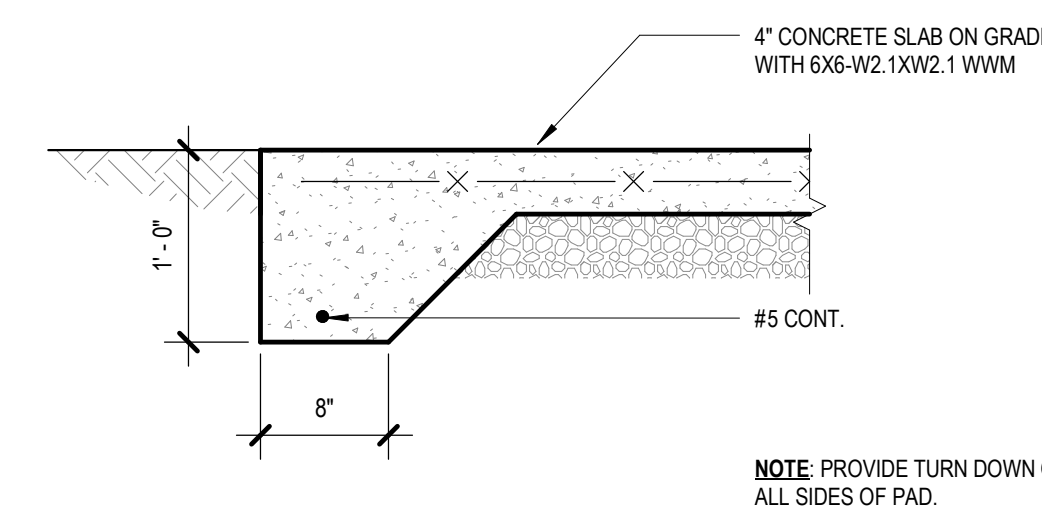
## SITE LOCATION MAP



## KEY PLAN



**A SITE PLAN**  
SCALE: 1/16" = 1'-0"  
0' 2' 4' 6' 10'



**3 TYPICAL CONCRETE PAD DETAIL**  
SCALE: 1" = 1'-0"  
0' 3' 6' 1' 2'

**CAST-IN-PLACE CONCRETE**

- CAST IN PLACE CONCRETE SHALL CONFORM TO THE LATEST ACI 318 & 309 CODE STANDARDS AND ACI 301 STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE EXCEPT AS MODIFIED HEREIN.
- SUBMIT LABORATORY TEST REPORTS FOR CONCRETE MATERIALS AND PROPOSED MIX DESIGN TESTS AND DATA.
- MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE IN 28 DAYS SHALL BE:  
3000 PSI - SPREAD FOOTINGS, MINIMUM CEMENT CONTENT OF 470 LBS/CUBIC YARD, WC .50  
3500 PSI - INTERIOR SLABS, MINIMUM CEMENT CONTENT OF 517 LBS/CUBIC YARD, WC .44  
4500 PSI - ALL OTHER CONCRETE MINIMUM CEMENT CONTENT OF 564 LBS/CUBIC YARD, WC .45
- REINFORCING BARS: A615 GRADE 60 KSI YIELD STRENGTH, UNLESS NOTED OTHERWISE. WELDING OR TACK WELDING A615 BARS SHALL NOT BE PERMITTED.
- REINFORCING BARS FOR WELDED APPLICATIONS SHALL CONFORM WITH A706, 60 KSI YIELD STRENGTH.
- WELDED WIRE FABRIC: ASTM A185, FLAT SHEET, ROLLED WVF SHALL NOT BE PERMITTED.
- CALCIUM CHLORIDE SHALL NOT BE PERMITTED NOR SHALL ANY ADMIXTURE CONTAINING CALCIUM CHLORIDE BE PERMITTED.
- ALL CONCRETE SHALL CONTAIN A WATER REDUCING ADMIXTURE CONFORMING TO ASTM C494, TYPE A, F OR G.
- ALL CONCRETE EXPOSED TO THE WEATHER OR IN A LOCATION VULNERABLE TO DEICERS SHALL CONTAIN AN AIR-ENTRAINED ADMIXTURE CONFORMING TO ASTM C260. THE AMOUNT OF ENTRAINMENT AIR SHALL BE 6% ± 1%.
- CONCRETE SHALL BE DISCHARGED AT THE SITE WITHIN 1 1/2 HOURS AFTER WATER HAS BEEN ADDED TO THE CEMENT AND AGGREGATES. ADDITION OF WATER TO THE MIX AT THE PROJECT SITE WILL NOT BE PERMITTED. ALL WATER MUST BE ADDED AT THE BATCH PLANT. SLUMP MAY BE ADJUSTED ONLY THROUGH THE USE OF ADDITIONAL WATER REDUCING ADMIXTURE OR HIGH-RANGE WATER REDUCING ADMIXTURE.
- PRECAST CONCRETE CUBES OR SAND PLATE CHAIRS SHALL BE USED FOR THE SUPPORT OF REINFORCING ON GRADE. CONCRETE BLOCK OR CLAY MASONRY BRICK ARE NOT PERMITTED.
- CONSTRUCTION JOINTS SHALL BE SUBJECT TO REVIEW BY RICHARD L. BOWEN + ASSOCIATES, INC., AND SHALL BE LOCATED AND DETAILED AS SPECIFIED ON THE DRAWINGS OR AS NOTED.
- ALL WELDED WIRE FABRIC SHALL BE CHAISED TO ITS PROPER HEIGHT AND MAINTAINED AT THE PROPER HEIGHT THROUGHOUT THE CONCRETE PLACING OPERATION. LIFTING OF WELDED WIRE FABRIC WITH A HOOK DURING CONCRETE PLACEMENT SHALL NOT BE PERMITTED.
- CHAMFER EXPOSED EDGES OF CONCRETE 3/4", UNLESS NOTED OTHERWISE.
- PROVIDE CONTROL JOINTS IN ALL SLABS ON GRADE AS SHOWN ON DRAWINGS.
- TOP LAYER OF REINFORCING STEEL IN FOOTINGS SHALL BE CONSIDERED TO BARS REGARDLESS OF THICKNESS OF CONCRETE BELOW THE BARS.
- ALL WALL FOOTING REINFORCING SHALL RUN CONTINUOUS THROUGH COLUMN FOOTINGS.
- BEND ALL HORIZONTAL BARS AROUND ADJACENT CORNERS AND LAP ACCORDING TO TABLE #1.
- BONDBREAKER MATERIAL SHALL BE 15 POUND FELT PAPER.
- DETERMINE SIZE AND LOCATION OF MECHANICAL EQUIPMENT AND MAKE PROVISIONS FOR BOLTS, SLEEVES, PADS, ETC., IN ACCORDANCE WITH THE MANUFACTURERS CERTIFIED DRAWINGS. THIS WORK SHALL BE COORDINATED WITH THE TRADES INVOLVED PRIOR TO ANY CONCRETE PLACEMENT.
- REINFORCING BAR LAP SPLICES AND ANCHORAGE LENGTH SHALL CONFORM WITH MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE #1 UNLESS NOTED OTHERWISE ON THE DRAWINGS.

MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE #1 Fy = GRADE 60, NON-COATED BARS					
3000 PSI CONCRETE					
BAR SIZE	TOP BARS LAP	ANCHORAGE	BAR SIZE	OTHER BARS LAP	ANCHORAGE
#3	21"	16"	#3	16"	13"
#4	25"	22"	#4	22"	17"
#5	42"	32"	#5	33"	26"
#6	56"	43"	#6	43"	34"

- WHEN LAPPING TWO DIFFERENT SIZE BARS, USE THE LAP DIMENSION OF THE SMALLER BAR OR THE ANCHORAGE DIMENSION OF THE LARGER BAR. USE WHICHEVER DIMENSION IS LARGER.

TYPICAL REINFORCING BAR CLEARANCE TABLE

LOCATION CLEARANCE  
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ..... 3"  
SLABS ON GRADE (WELDED WIRE FABRIC) ..... 1/3 SLAB THICKNESS FROM TOP OF SLAB

**DATES AND REVISIONS**

No.	Date / Description
18	12.14.14 BID AND PERMIT

**Huntington**  
Convention Center of Cleveland

**RICHARD L. BOWEN + ASSOCIATES INC.**  
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**HUNTINGTON CONVENTION CENTER OF CLEVELAND**  
1 ST CLAIR AVENUE NE, CLEVELAND, OH 44114

**URBAN FARM CONCRETE PADS**

DRAWN BY: KKC  
CHECKED BY: KKC  
RLB NO.: 8832

DRAWING NO.  
**30-A01**