GENERAL NOTES

GENERAL NOTES

1. THESE GENERAL NOTES ARE FOR REFERENCE TO PURPOSE SPECIFICATIONS AND INSTRUCTION FOR INTERPRETATION OF CONTRACT DOCUMENTS.
2. THE STRUCTURAL DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE FINISHED STRUCTURE, UNLESS EXCEPT WHERE SPECIFICALLY SHOWN, DO NOT INDICATE THE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK.
3. THE STRUCTURE AS SHOWN HAS BEEN DESIGNED TO PERMIT DESIGN LOADS ONLY AFTER COMPLETED STRUCTURE HAS BECOME AN INTEGRAL UNIT. PRIOR TO THE INSTALLATION OF THE PARTIALLY COMPLETED STRUCTURE SHALL BE ADEQUATELY BRACED TO WITHSTAND ALL LOADS INCLUDED. THE DESIGN OF BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL TAKE INTO ACCOUNT ALL LOADS AND ENVIRONMENTAL EFFECTS TO WHICH THE STRUCTURE MAY BE SUBJECTED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO: CONSTRUCTION LOADS, WIND LOADS, SEISMIC LOADS, AND THERMAL EFFECTS. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE SEQUENCE OF CONSTRUCTION OF THE STRUCTURE, DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE, THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING AS FOR THE STRUCTURE AS A FULL DESIGNED UNIT.
4. THE DESIGN DRAWINGS, CONTRACTOR SHALL CHECK AND CONFIRM ALL DIMENSIONS AND CONDITIONS BEFORE ANY WORK IS COMMENCED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO ORDERING OR FABRICATING OR PROCEEDING WITH ANY PHASE OF THE WORK.
5. THE CONTRACTOR SHALL EXAMINE STRUCTURAL DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY. NO CHANGES TO THE STRUCTURE SHALL BE MADE WITHOUT THE ARCHITECT'S WRITTEN APPROVAL.
6. ALL NEEDED ITEMS NOT SHOWN OR NOTED ON THE PLANS OR SPECIFICATIONS, THE FINAL DECISION WILL BE REFERRED TO THE ARCHITECT WHO WILL HAVE TEN (10) DAYS FROM RECEIPT TO RESPOND TO THE SCHEDULE PERIOD.
7. PRINCIPAL DIMENSIONS OF THE STRUCTURE ARE SHOWN ON THESE DRAWINGS FOR THE GENERAL CONTRACTOR TO COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS FOR REQUIRED OPENINGS & INSERTS. ALL OPENINGS SHALL BE LOCATED AS SHOWN ON THESE DRAWINGS ONLY. DIMENSIONS SHALL NOT BE SCALED FROM THESE DRAWINGS. ANY DISCREPANCY SHALL BE REPORTED TO THE ARCHITECT FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
8. USE ONLY FIGURED DIMENSIONS. DO NOT SCALE DRAWINGS. THE LOCATION OF DEPRESSED FLOOR AREAS, SLOPES, CURBS, ETC. SHALL BE VERIFIED WITH THE ARCHITECTURAL DRAWINGS.
9. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT SIZE AND LOCATION OF ALL OPENINGS NOT SHOWN OR DIMENSIONED ON STRUCTURAL DRAWINGS. ALL OPENINGS THROUGH CONCRETE SLABS AND WALLS SHALL BE APPROVED BY THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE BEING CUT OR FORMED. ALL OPENINGS SHALL BE COORDINATED WITH THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS.
10. USE NON-SHRINKING GROUT UNDER ALL BASE PLATES AND BEARING PLATES.
11. CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY FROM DAMAGE DURING CONSTRUCTION.
12. THE CONTRACTOR SHALL REPLACE EXISTING CONCRETE CURBS AND GUTTERS AS NECESSARY.
13. ANY DEVIATION FROM THE DRAWINGS, SPECIFICATIONS AND/OR APPLICABLE CODES SHALL BE APPROVED BY THE ARCHITECT AND ENGINEER IN WRITING PRIOR TO CONSTRUCTION.
14. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL EXISTING CONCRETE CURBS AND GUTTERS DAMAGED DURING CONSTRUCTION.
15. ALL DIMENSIONS SHALL BE VERIFIED BY THE CONTRACTOR BEFORE ANY WORK IS COMMENCED. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
16. ALL DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF MASONRY, OR FACE OF STUD UNLESS OTHERWISE NOTED. ALL BUILDING DIMENSIONS ARE TO THE OUTSIDE FACE OF THE STRUCTURE.
17. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES AND STRUCTURES.
18. ALL CONSTRUCTION SHALL COMPLY WITH THE LOCAL BUILDING AUTHORITY STANDARDS AND SPECIFICATIONS AND THE IBC.

CONTRACTOR RESPONSIBILITIES

1. THE CONTRACTOR SHALL EXAMINE THE PROJECT DRAWINGS AND PROJECT MANUAL IN DETAIL. CONTACT THE ARCHITECT OF ANY DISCREPANCIES FOUND BEFORE PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL VERIFY CONDITIONS AT THE SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK AND OPERATIONS OF ALL TRADES AND DISCIPLINES. THE CONTRACTOR SHALL:
   A. SCHEDULE CO-ORDINATION OPERATIONS IN SEQUENCE REQUIRED TO OBTAIN THE BEST RESULTS WHERE INSTALLATION OF ONE PART OF THE WORK DEPENDS ON INSTALLATION OF OTHER COMPONENTS, BEFORE OR AFTER ITS INSTALLATION;
   B. DETERMINE AVAILABILITY OF DIFFERENT COMPONENTS WITH CONSTRUCTIONS TO ENSURE MAXIMUM ACCESSIBILITY FOR REQUIRED MAINTENANCE, SERVICE AND REPAIR;
   C. MAKE ADEQUATE PROVISIONS TO ACCOMMODATE ITEMS SCHEDULED FOR LATER INSTALLATION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL MANUFACTURED EQUIPMENT AND PLANT SUPPORTS AND MOMENTS WHICH ARE USED BUT NOT LIMITED TO: HEATING, COOLING AND FOOD SERVICE EQUIPMENT AND ALL TYPES OF PLUMBING FIXTURES, MISCELLANEOUS STRUCTURES, TRUSSES, SHOP FABRICATED ITEMS, OVERHEAD DOORS, ETC. IF THESE ITEMS ARE SUPPLIED ITEMS IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE ARCHITECT OF THESE ITEMS AND OBTAIN ALL DIMENSIONS AND INFORMATION NECESSARY FOR THE ARCHITECT TO PREPARE THE CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES AND/OR DELAYS TO THE WORK RESULTING FROM THE FAILURE TO PROVIDE SUCH INFORMATION.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SHORES AND GUYS AS REQUIRED TO SUPPORT ALL LOADS TO WHICH THE BUILDING STRUCTURE AND ITS COMPONENT PARTS WILL BE SUBJECTED DURING CONSTRUCTION. THE CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL ENGINEER TO DESIGN THE TEMPORARY BRACING AND SHORING SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUACY OF THE TEMPORARY BRACING AND SHORING SYSTEMS.
6. THE CONTRACTOR SHALL SCHEDULE A PRECONSTRUCTION MEETING WITH ALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THOSE INVITED SHALL INCLUDE THE OWNER, THE ARCHITECT, THE ENGINEERS, REPRESENTATIVES OF THE CONSTRUCTION AND OTHER AFFECTED AGENCIES. PLANS SIGNED AND ACCEPTED BY THE AUTHORITIES HAVING JURISDICTION SHALL BE PRESENT AT THE PRECONSTRUCTION MEETING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE SITE AT ALL TIMES.
7. PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL OBTAIN ANY AND ALL WRITTEN AGREEMENTS FOR ACCESS AND EASEMENTS TO THE WORK SITE AND ADJACENT PRIVATE PROPERTY OWNERS. A COPY OF ALL AGREEMENTS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AND ARCHITECT PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION AND REPAIR OF ALL UTILITIES AND/OR STRUCTURES ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND ARCHITECT IMMEDIATELY OF ANY DAMAGE TO UTILITIES OR STRUCTURES ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPAIR OF ANY DAMAGED UTILITIES OR STRUCTURES.
8. UTILITIES - THE AREAS OF CONSTRUCTION HAVE APPROXIMATE (ALL) THEY HAVE BEEN LOCATED FROM FIELD INVESTIGATION AND THE BEST AVAILABLE UTILITY RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION AND REPAIR OF ALL UTILITIES AND/OR STRUCTURES ENCOUNTERED DURING THE COURSE OF THE WORK. (1) THESE PLANS DO NOT THE CONTRACT ALL PROPERTIES / UTILITIES IN DETAIL & ALL UTILITIES NEED LOCATED PRIOR TO CONSTRUCTION. IF ANY UNKNOWN / NON-SURFACE STRUCTURES ARE ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION OF OWNER'S REPRESENTATIVE IMMEDIATELY. (2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION OF OWNER'S REPRESENTATIVE IMMEDIATELY. (3) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION OF OWNER'S REPRESENTATIVE IMMEDIATELY. (4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION OF OWNER'S REPRESENTATIVE IMMEDIATELY. (5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION OF OWNER'S REPRESENTATIVE IMMEDIATELY. (6) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION OF OWNER'S REPRESENTATIVE IMMEDIATELY. (7) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION OF OWNER'S REPRESENTATIVE IMMEDIATELY. (8) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION OF OWNER'S REPRESENTATIVE IMMEDIATELY. (9) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION OF OWNER'S REPRESENTATIVE IMMEDIATELY. (10) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE BROUGHT TO THE ARCHITECTS ATTENTION OF OWNER'S REPRESENTATIVE IMMEDIATELY.
9. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS AND TESTING WITH THE LOCAL AUTHORITIES.
10. THE CONTRACTOR SHALL NOTIFY AND OBTAIN APPROVAL FROM ALL AUTHORITIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THOSE INVITED SHALL INCLUDE THE OWNER, THE ARCHITECT, THE ENGINEERS, REPRESENTATIVES OF THE CONSTRUCTION AND OTHER AFFECTED AGENCIES. PLANS SIGNED AND ACCEPTED BY THE AUTHORITIES HAVING JURISDICTION SHALL BE PRESENT AT THE PRECONSTRUCTION MEETING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE SITE AT ALL TIMES.
11. PRIOR TO INSTALLATION OF ANY UTILITIES, THE CONTRACTOR SHALL OBTAIN ALL WRITTEN AGREEMENTS FOR ACCESS AND EASEMENTS TO THE WORK SITE AND ADJACENT PRIVATE PROPERTY OWNERS. A COPY OF ALL AGREEMENTS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE AND ARCHITECT PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION AND REPAIR OF ALL UTILITIES AND/OR STRUCTURES ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE AND ARCHITECT IMMEDIATELY OF ANY DAMAGE TO UTILITIES OR STRUCTURES ENCOUNTERED DURING THE COURSE OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REPAIR OF ANY DAMAGED UTILITIES OR STRUCTURES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THE PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, PREVENTED, OR DIVERTED OF AS A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS OR PROPERTY OR UNDERMINE THE FOUNDATIONS OF THE STRUCTURE. THE IMPROVEMENTS SHOWN ON THESE PLANS, THE USE OF ANY SUMP, SEWER OR CONDUIT OR TRENCH WATER WILL NOT BE PERMITTED. NO CONCRETE SHALL BE PLACED WHERE GROUNDWATER IS PRESENT OR UNTIL THE GROUNDWATER TABLE HAS BEEN LOWERED BELOW THE PROPOSED FOUNDATION BOTTOM ELEVATIONS. WHERE GROUNDWATER IS ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, SHALL BE ESTABLISHED AS DEFINED UPON BY THE CONSTRUCTION RELEASE OF AUTHORITIES AND THE DESIGNER AT THE TIME OF THE OCCURRENCE.
13. DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGGERS, AND OTHER DEVICES NECESSARY TO PROTECT THE PUBLIC FROM HAZARDS CREATED BY THE PROJECT. THE REQUIREMENTS SET FORTH SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS THE OWNER, THE ARCHITECT, THE ENGINEERS AND THEIR CONSULTANTS AND AGENTS AND EMPLOYEES OF ANY OF THEM FROM ANY AND ALL CLAIMS, DEMANDS, CAUSES OF ACTION, ADMINISTRATIVE OR ARBITRATION PROCEEDINGS, LIABILITY, LOSS, OR EXPENSE, INCLUDING ATTORNEYS' FEES AND COSTS OF SUIT, IN CONNECTION WITH THE PERFORMANCE OF THE WORK OF THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, THE DESIGNER OR ENGINEER OF RECORD FOR THE PROJECT, OR ANY CONTRACTED DESIGNER, OR ANY OF THEIR CONSULTANTS, AGENTS OR EMPLOYEES ACTING SOLELY WITHIN THE SCOPE OF THEIR EMPLOYMENT OR UNDERTAKING. THE CONTRACTOR SHALL REVIEW, APPROVE AND SUBMIT TO THE OWNER AND ARCHITECT SHOP DRAWINGS, PRODUCT DATA AND SAMPLES FOR ALL PORTIONS OF THE WORK. SHOP DRAWINGS AND PRODUCT DATA SHALL BE CLEARLY MARKED TO SHOW MATERIALS, DIMENSIONS, AND SPECIFIC DETAILS SELECTED. SUBMITTALS SHALL BE MADE IN SUFFICIENT TIME TO ALLOW ADEQUATE REVIEW. DESCRIPTIONS IN SUBMITTALS SHALL REFER TO DRAWING AND DETAIL NUMBERS ESTABLISHED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL REVIEW EACH SUBMITTAL AND SHALL CERTIFY THAT IT IS IN CONFORMANCE WITH THE INSTALLATION REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BEGIN ANY WORK THAT REQUIRES SUBMITTALS UNTIL THE SUBMITTAL HAS BEEN APPROVED BY THE ARCHITECT. ALL SUCH WORK SHALL BE IN ACCORDANCE WITH APPROVED SUBMITTALS.
14. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER'S REPRESENTATIVE OF UNCORRECTED DEFECTS AND DEFICIENCIES IN THE WORK AND SHALL CORRECT THEM BEFORE REQUESTING FINAL INSPECTION. THE CONTRACTOR SHALL ARRANGE FOR AND REQUEST FINAL INSPECTION BY THE ARCHITECT AND OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO ARRANGE FOR INSPECTIONS BY AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION EQUIPMENT, TOOLS, MOCK-UPS AND SURPLUS MATERIALS FROM AND ABOUT THE PROJECT SITE. CLEAN ALL SURFACES, EQUIPMENT AND FIXTURES TO A CONDITION SUITABLE FOR OCCUPANCY AND USE. REMOVE ALL TEMPORARY PROTECTIVE COVERINGS AND PROTECTION OF PERMANENT WORK. CLEAN AND TREAT ALL SURFACES SUBJECT TO DAMAGE FROM EXPOSURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REMOVE ALL TEMPORARY FACILITIES AND CONTROLS.
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16. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND OWNER'S REPRESENTATIVE OF UNCORRECTED DEFECTS AND DEFICIENCIES IN THE WORK AND SHALL CORRECT THEM BEFORE REQUESTING FINAL INSPECTION. THE CONTRACTOR SHALL ARRANGE FOR AND REQUEST FINAL INSPECTION BY THE ARCHITECT AND OWNER'S REPRESENTATIVE. THE CONTRACTOR SHALL ALSO ARRANGE FOR INSPECTIONS BY AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION EQUIPMENT, TOOLS, MOCK-UPS AND SURPLUS MATERIALS FROM AND ABOUT THE PROJECT SITE. CLEAN ALL SURFACES, EQUIPMENT AND FIXTURES TO A CONDITION SUITABLE FOR OCCUPANCY AND USE. REMOVE ALL TEMPORARY PROTECTIVE COVERINGS AND PROTECTION OF PERMANENT WORK. CLEAN AND TREAT ALL SURFACES SUBJECT TO DAMAGE FROM EXPOSURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REMOVE ALL TEMPORARY FACILITIES AND CONTROLS.

REFERENCE SYMBOLS

- DETAIL NUMBER / BUILDING SECTION / DRAWING NUMBER ON WHICH DETAIL IS DRAWN
- DETAIL NUMBER / BUILDING ELEVATION / DRAWING NUMBER ON WHICH DETAIL IS DRAWN
- DOOR NUMBER
- ROOM NUMBER (SEE SCHEDULES)
- WINDOW TYPE
- DETAIL NUMBER / WALL SECTION / DRAWING NUMBER ON WHICH DETAIL IS DRAWN
- DIMENSION
- DATUM HEIGHT
- KEYNOTE
- ELEVATION HEIGHT
- COLUMN MARK
- BEAM MARK
- WALL SECTION

MATERIAL DESIGNATION

- CONCRETE
- COMPACTED SAND FILL
- EARTH
- GRASS
- CONCRETE BLOCK WALL
- EXISTING BUILDING
- DRY WALL
- TIMBER WALL

ABBREVIATIONS

TAG	DEFINITION
A/C	AIR CONDITIONER
A/H	AIR HANDLER
ARCH.	ARCHITECT
A/V	AUDIO VISUAL EQUIP.
BBQ	BARBEQUE
BD. FT.	BOARD FOOT
BLK.	BLOCK
BOQ	BILL OF QUANTITIES
BRC	BRC MANUFACTURING
CONC.	CONCRETE
CT	36" COOK TOP W/ RANGE
CU. YD.	CUBIC YARD
D	DOOR
DR-HR	DOUBLE RIGHT HAND
DWG	DRAWING
F.F.	FINISH FLOOR
FLR	FLOOR
FIN	FINISH
FT	FEET
FV	FIELD VERIFY

TAG	DEFINITION
G	GAUGE
HDFP	HOLLOW CORE
HM	HOLLOW METAL
L	LIGHT
LF, L# IER FOOT	
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LOW	LOWER
LS	LAM SUM
MAT.	MATERIAL
MAX	MAXIMUM
MIN	MINIMUM
MW	MILLWORK
N/A	NOT APPLICABLE
NTS	NOT TO SCALE
O.C.	ON CENTER
QTY	QUANTITY
R.C.	REI FORCE CONCRETE
RH	RIGHT HAND
RHR	RIGHT HAND

TAG	DEFINITION
RM	ROOM
REINF	REINFORCEMENT
SCWD	SOLID CORE
RWP	RAIN WATER PIPE
SPECS.	SPECIFICATIONS
SQ.	SQUARE
Sq. Yd.	SQUARE YARD
Sq. Ft.	SQUARE FEET
SYM	SYMBOL
TBD	TO BE DETERMINED
THK	THICK
T & G	TONGUE AI ID GROOVE
TNS	TONS
TNS	TONS
T.P	TOILET PAPER
UPP	UPPER
W	WINDOW
W/	WITH
WD	WOOD

LAWFUL DOCUMENTATION

ALL DRAWINGS ARE A INSTRUMENT OF SERVICE AND SHALL NOT BE COPIED, ALTERED OR REPRODUCED WITH OUT THE CONSENT OF INTERNATIONAL ENVIRONMENTS LTD.

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PROJECT DESCRIPTION

-

PROJECT DATA

GROSS SITE AREA	-
BUILDING FOOTPRINTS	-
BUILDING HT. PROPOSED	-

PROJECT TEAM

OWNER
-
APPLICANT / ARCHITECT
INTERNATIONAL ENVIRONMENTS
35 NEW ROAD, P.O. BOX 1848, BELIZE CITY, BELIZE
PHONE: 501-223-6696

SHEET INDEX

TAG	DEFINITION
C00.0	COVER SHEET
	SITE PLANS
A1.0	EXISTING SITE & DEMOLITION PLAN
A1.0a	EXISTING TOPOGRAPHICAL SURVEY
A1.1	MASTER PLAN
A1.1a	SITE DRAINAGE PLAN
A1.2	SITE DIMENSION PLAN
A1.3	SITE PARKING LAYOUT
A1.4	SPORTING FACILITIES LAYOUT
A1.5	SITE ELECTRICAL PLAN
A1.6	SITE DETAILS
	ARCHITECTURAL
A2.0	LEVEL 0 PROPOSED FLOOR PLAN
A2.1	LEVEL 1 PROPOSED FLOOR PLAN
A2.2	LEVEL 2 PROPOSED FLOOR PLAN
A2.3	LEVEL 3 PROPOSED FLOOR PLAN
A2.4	LEVEL 4 PROPOSED FLOOR PLAN
A2.5	reserved
A3.0	LEVEL 0 DIMENSION PLAN
A3.1a	LEVEL 1 PART-A DIMENSION PLAN
A3.1b	LEVEL 1 PART-B DIMENSION PLAN
A3.1c	LEVEL 1 PART-C DIMENSION PLAN
A3.1d	LEVEL 1 PART-D DIMENSION PLAN
A3.2	LEVEL 2 DIMENSION PLAN
A3.3	LEVEL 3 DIMENSION PLAN

TAG	DEFINITION
	ARCHITECTURAL CONT.
A4.0	LEVEL 0 REFLECTIVE CEILING PLAN
A4.1	LEVEL 1 REFLECTIVE CEILING PLAN
A4.2	LEVEL 2 REFLECTIVE CEILING PLAN
A4.3	LEVEL 3 REFLECTIVE CEILING PLAN
A5.0	reserved
A6.0	ELEVATIONS
A6.1	ELEVATIONS
A7.0	SECTIONS
A7.1	SECTIONS
A8.0	reserved
A9.0	DOOR WINDOW & FINISHES SCHEDULE
A9.1	DOOR WINDOW & FINISHES SCHEDULE
A10.0	FIBA BASKETBALL COURT LAYOUT
A10.1	NCAA BASKETBALL COURT LAYOUT
A10.2	PRACTICE BASKETBALL COURT LAYOUT
A10.3	BOXING RING LAYOUT
A10.4	CONCERT/EVENTS REMOVABLE SEATING
A10.5	LEVEL 1 PROPOSED FIRE ESCAPE ROUTE
A10.6	BLEACHER FIRE ESCAPE ROUTE

TAG	DEFINITION
	STRUCTURAL
S1.0	STRUCTURAL SPECIFICATIONS
S2.0	STRUCTURAL SPECIFICATIONS
S3.0	STRUCTURAL SPECIFICATIONS
01	SECTIONS
02	MAIN STRUCTURE PILE CAP LAYOUT
03	ENTRANCE PILE CAP AND BEAM LAYOUT
04	BEAM LAYOUT
05	PILE CAP DETAILS
	MECHANICAL
M2.1	MECHANICAL - LEVEL 1
M2.2	MECHANICAL - LEVEL 2
M2.3	MECHANICAL - LEVEL 3
M2.4	MECHANICAL - LEVEL 4

SITE LOCATION

DESIGN DEVELOPMENT

ARCH

CS COVER SHEET

INTERNATIONAL ENVIRONMENTS

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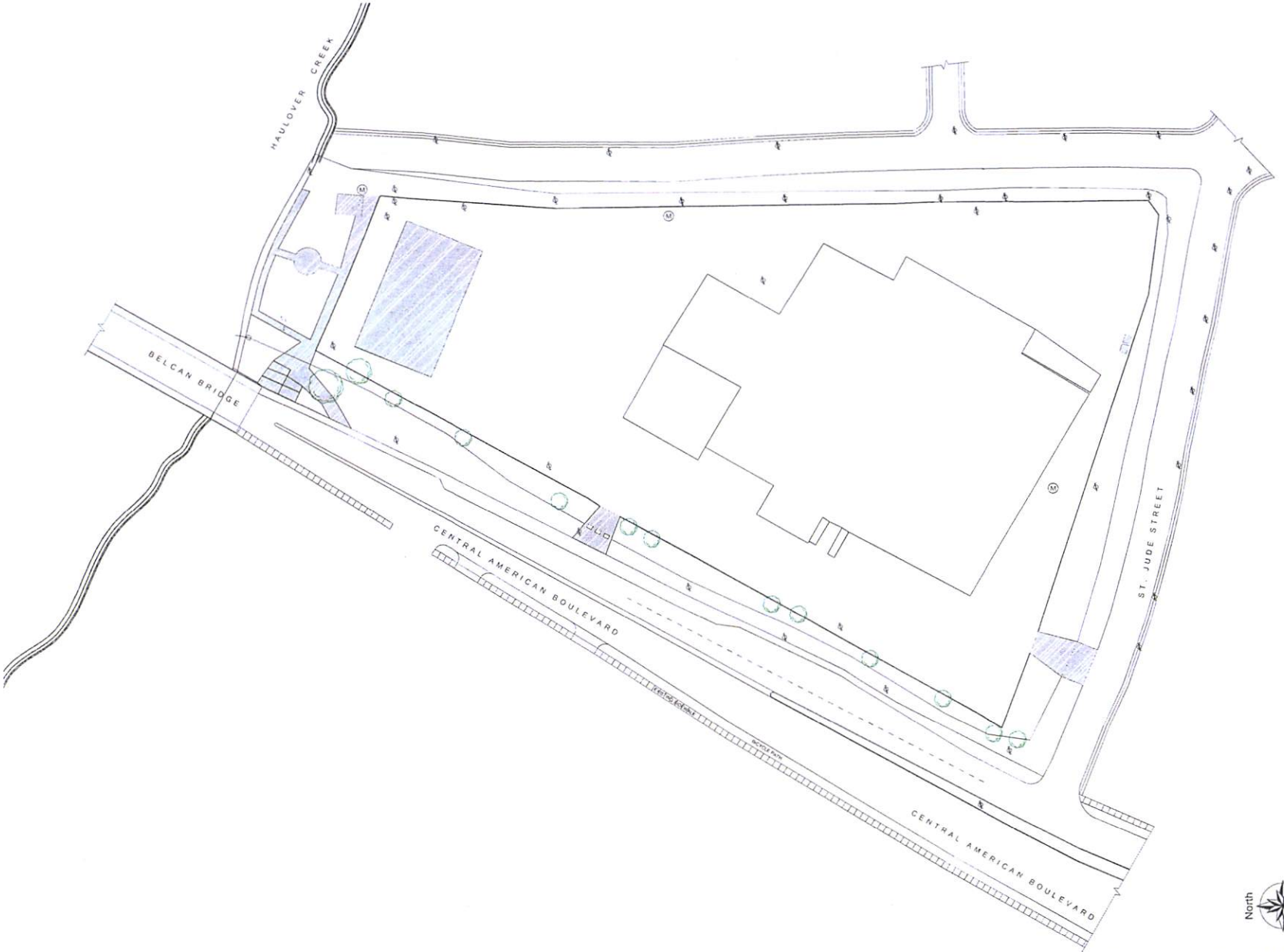

EXISTING SITE PLAN & DEMOLITION PLAN

SURVEY LEGEND

- CONTOUR LINES
- SPOT ELEVATION
- CONCRETE PILLAR SURVEY MARKER FOUND
- EXISTING STRUCTURE TO BE REMOVED
- EXISTING SLAB ON SITE
- CHAIN LINK FENCE TO BE REMOVED
- CONCRETE FENCE TO BE REMOVED
- EXISTING DRAIN INVERT
- EXISTING B.E.L POLES (18#)

GENERAL NOTES

1. PRIOR TO EXCAVATION FOR ANY REASON, IDENTIFY ALL EXISTING BURIED UTILITIES WHERE APPLICABLE.
2. ALL EXISTING FENCE TO REMAIN UNTIL ALL BUILDING COMPONENTS ARE INSTALLED AND FINAL SITE WORKS COMMENCES.
3. LANDSCAPING TO BE DETERMINED BY CLIENT WITH THE AID OF LANDSCAPE DESIGNER

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE (AS SHOWN)
DATE 07.AUG.2015
DRAWN HG
OWNER BL

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- [ ] CONSTRUCTION DOC.
- [ ] CITY SUBMITTAL
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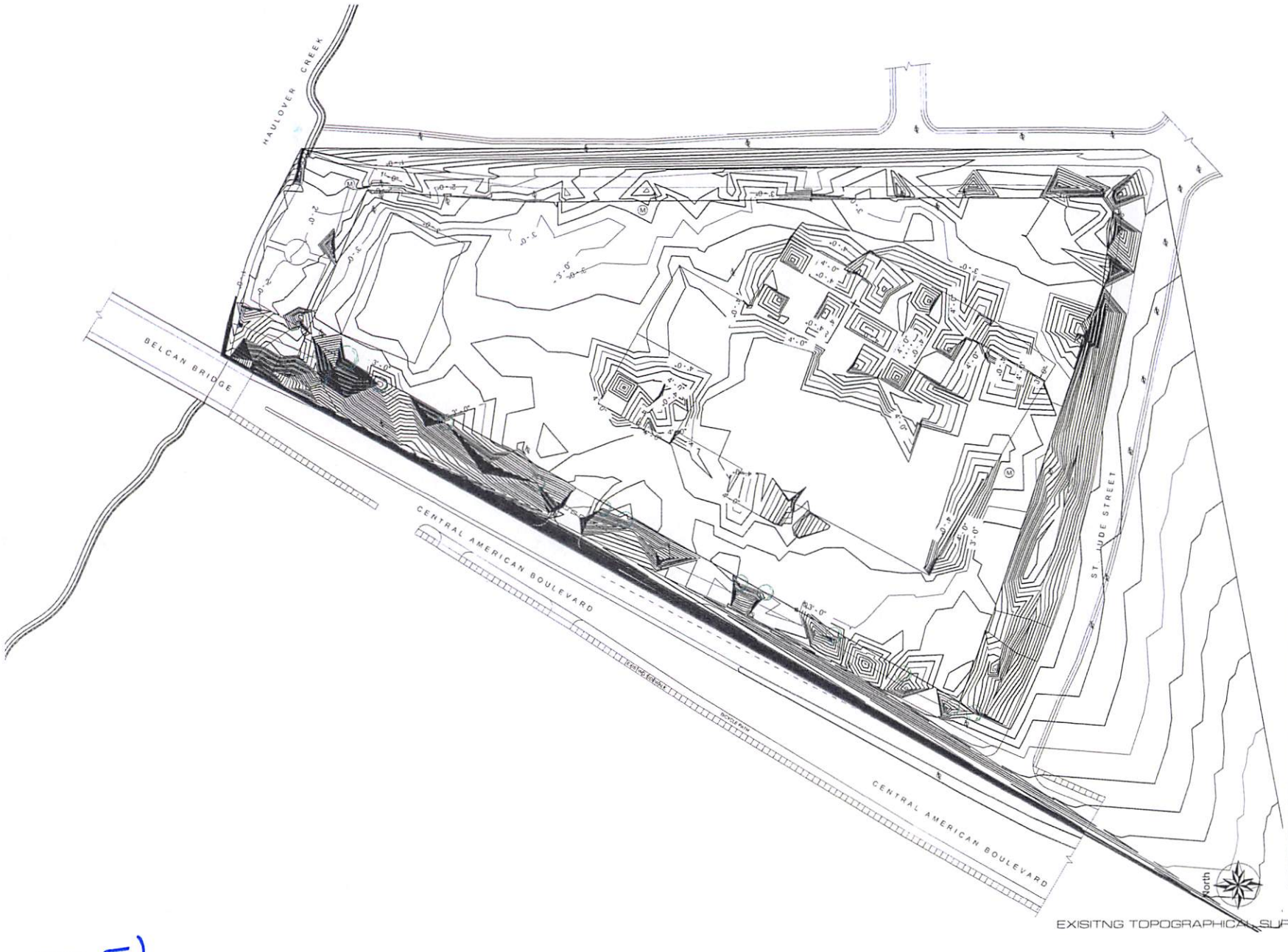

EXISITNG TOPOGRAPHICAL SURVEY

DESIGN DEVELOPMENT

ARCH

INTERNATIONAL ENVIRONMENTS

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1/32"=1'-0"
DATE 07.AUG.2015
DRAWN HG
OWNER BL

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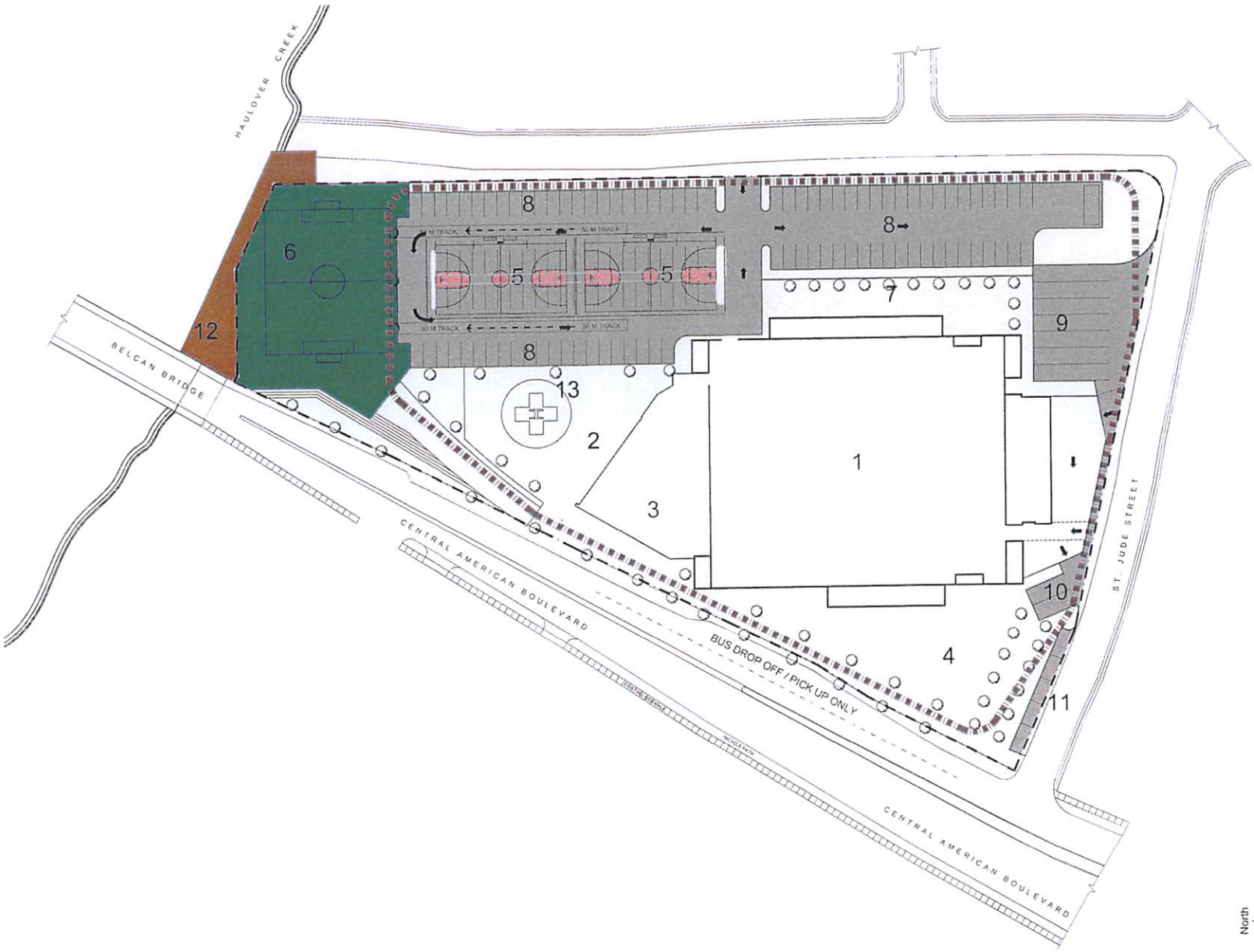

HATCH LEGEND

- GREEN AREA [17360.43 SQ.FT.]
- CONCRETE [58492.18 SQ.FT.]
- DECK [3581.53 SQ.FT.]
- ASPHALT [54010.00 SQ.FT.]

KEY NOTES

1. PROPOSED BUILDING
2. COURT YARD
3. PLAZA STAGE
4. OPEN AREA
5. BASKETBALL COURT (PAINTED) SEE SHEET A1.11
6. FOOTBALL FIELD SEE SHEET A1.10
7. OUTDOOR GYM PLAZA
8. PARKING LOT
9. BUS PARKING
10. AMBULANCE & POLICE PARKING
11. TAXI PARKING
12. WATER TAXI DECK
13. HELICOPTER PAD (PAINTED) SEE WS - 1 ON SHEET A1.11

DESIGN DEVELOPMENT

ARCH

INTERNATIONAL ENVIRONMENTS

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1/32"=1'-0"
DATE 07.AUG.2015
DRAWN HG
OWNER BL

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North

A 1.1
MASTER PLAN

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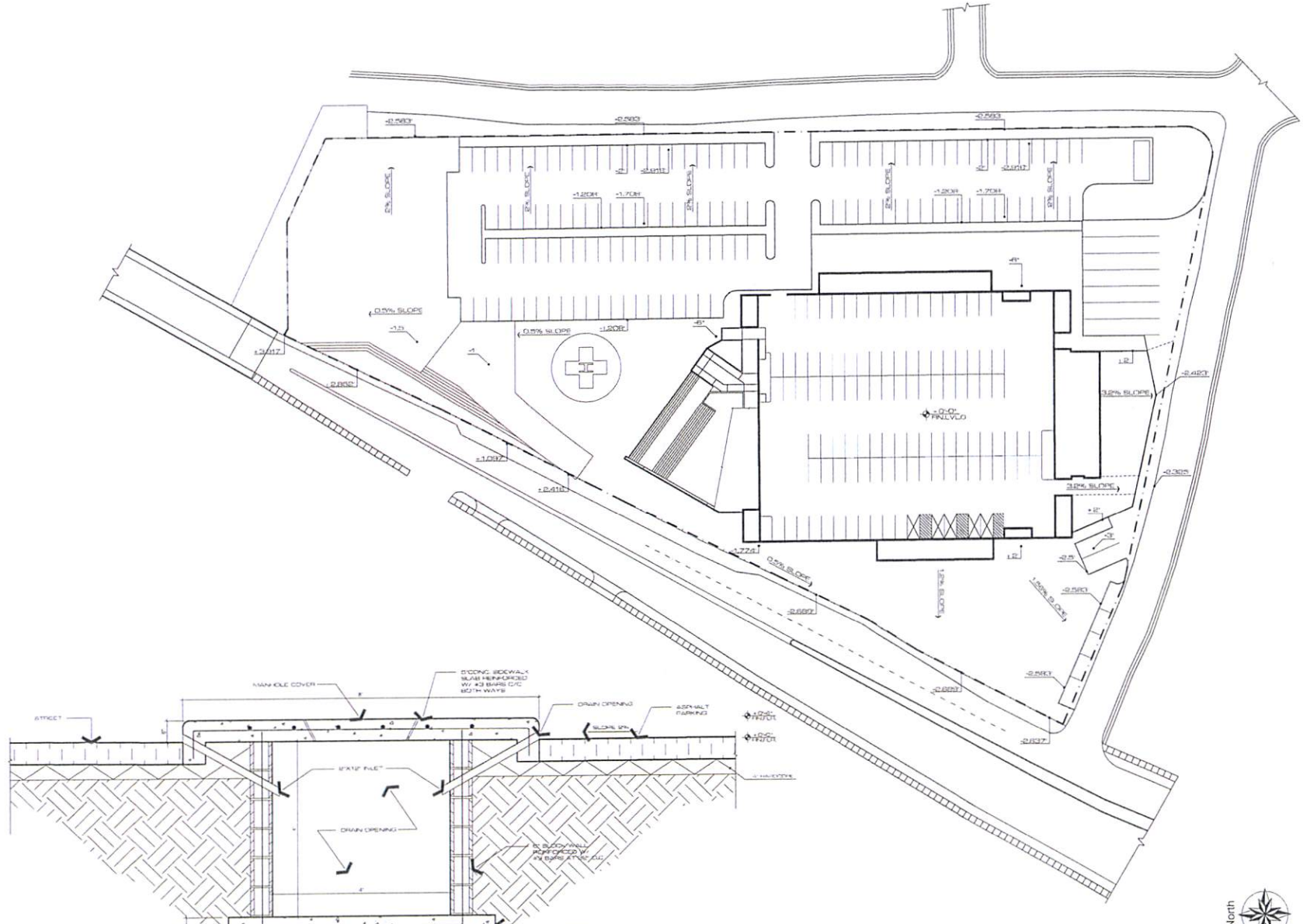

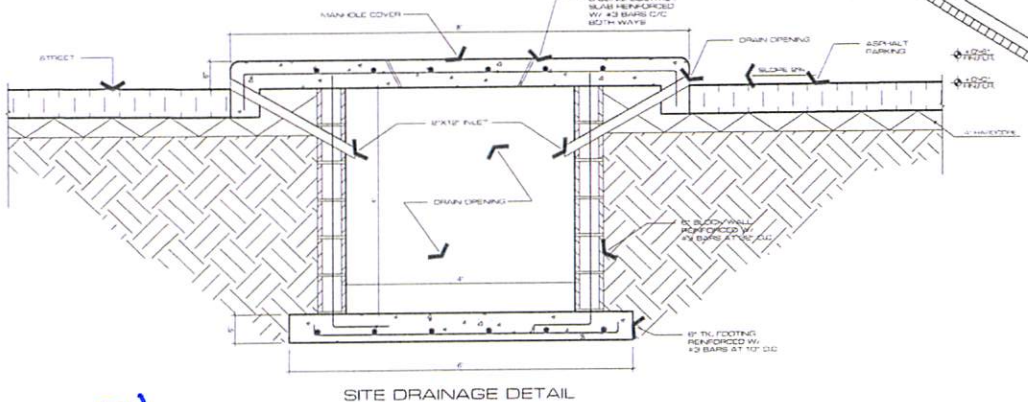

SITE DRAINAGE DETAIL

North

SITE DRAINAGE PLAN

KEY NOTES

1. OSTERN BELLOW BLEACHER

GENERAL NOTES

1. PRIOR TO EXCAVATION FOR ANY REASON, IDENTIFY ALL EXIST. BURIED UTILITIES WHERE APPLICABLE.
2. ALL EXTERIOR CONC. PADS SLOPE A MIN. OF 1% AWAY FROM BUILDING
3. LANDSCAPING TO BE DETERMINED BY CLIENT WITH THE AID OF LANDSCAPE DESIGNER
4. SEE WS-00 ON A9.0 FOR INVERT LEVEL DETAILS A,B,C,D & E

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center Arena & Sports Park

PROJECT NO. 2015-01

SCALE

DATE 07.AUG.2015

DRAWN MF

OWNER BL

- [x] DESIGN DEVELOPMENT
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- [ ] CONSTRUCTION ISSUE
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ISSUE: 02.10.15

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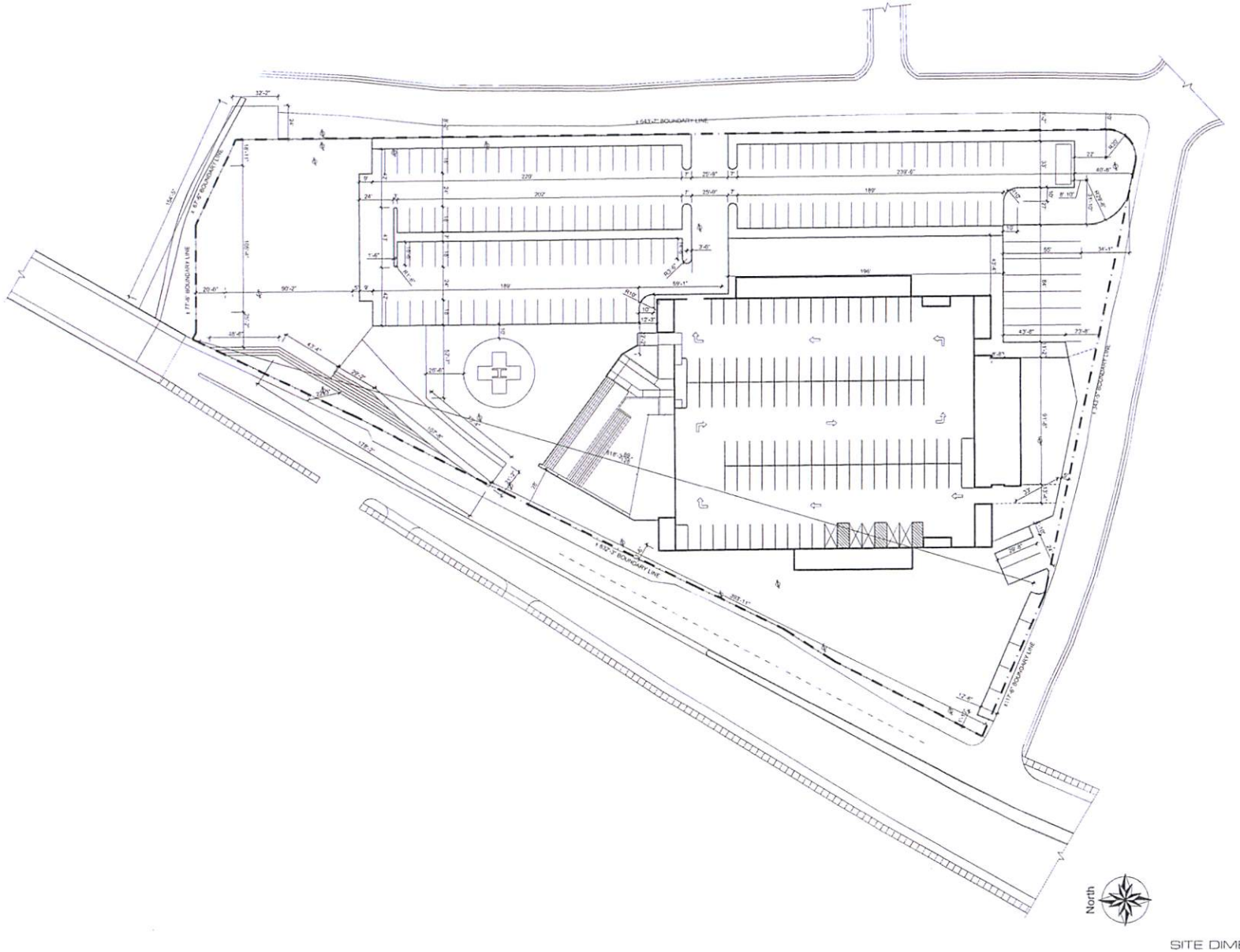

SITE LEGEND

- ± 0'-0" BOUNDARY NOTE
- CORNER POST
- SITE LINE
- ROAD ROAD MARKER
- ELECTRICAL METER
- (M) WATER METER
- GARBAGE BIN
- TREATMENT PLANT

GENERAL NOTES

1. PRIOR TO EXCAVATION FOR ANY REASON, IDENTIFY ALL EXIST. BURIED UTILITIES WHERE APPLICABLE.
2. ALL EXTERIOR CONC. PADS SLOPE A MIN. OF 1% AWAY FROM BUILDING.
3. LANDSCAPING TO BE DETERMINED BY CLIENT WITH THE AID OF LANDSCAPE DESIGNER.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1/32"=1'-0" (11"x17")
DATE 07.AUG.2015
DRAWN HG
CORNER BL

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A 1.2 SITE DIMENSION PLAN

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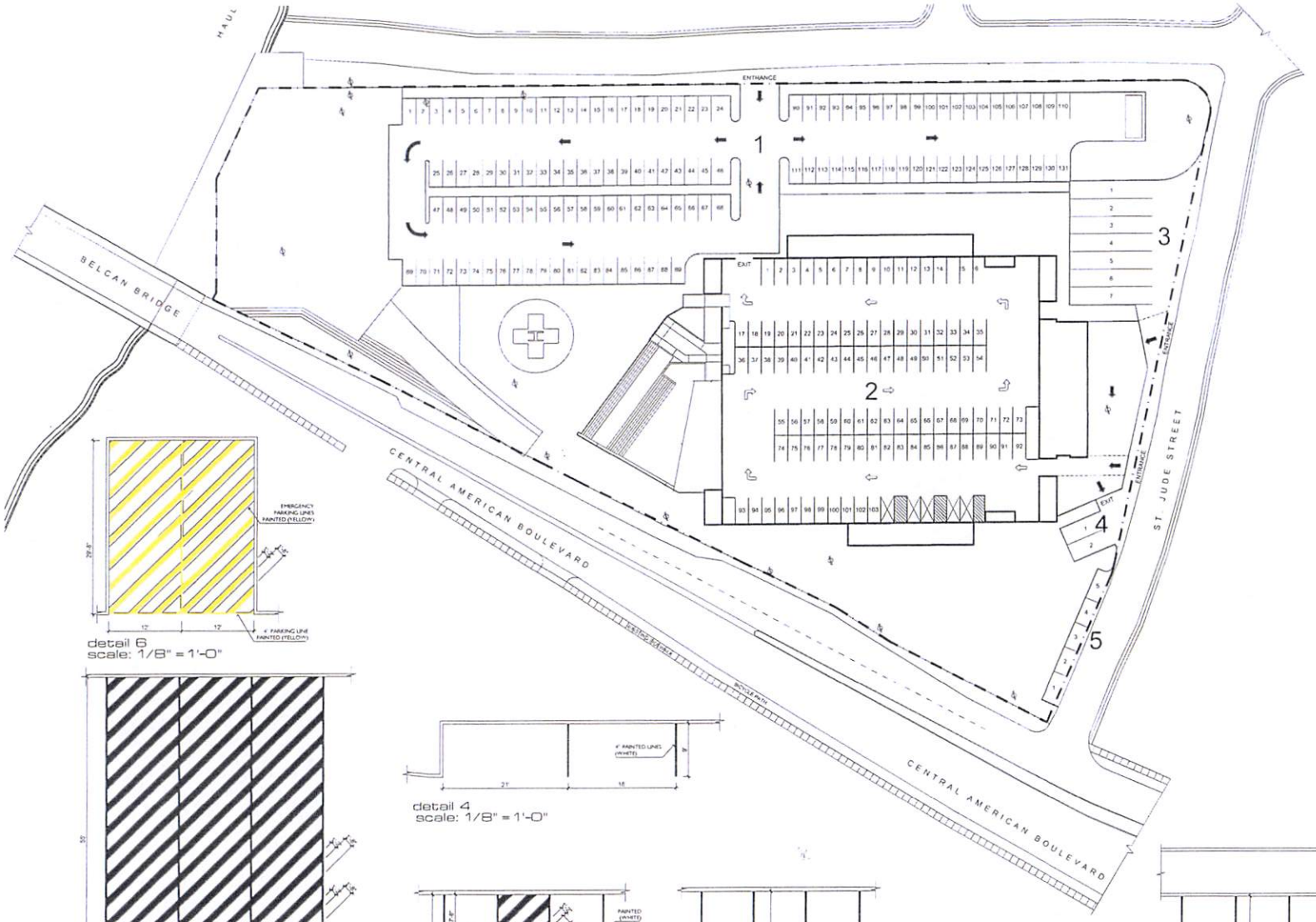
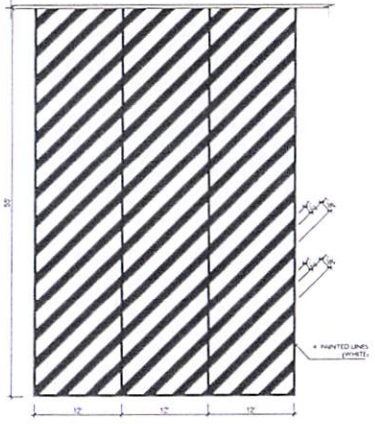
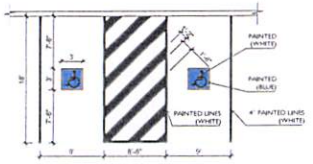


detail 6
scale: 1/8" = 1'-0"



detail 5
scale: 1/8" = 1'-0"

detail 4
scale: 1/8" = 1'-0"



detail 3
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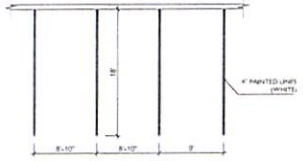
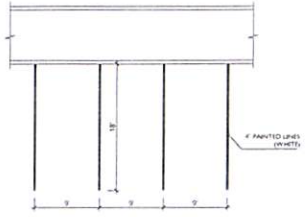


detail 2
scale: 1/8" = 1'-0"



detail 1
scale: 1/8" = 1'-0"

North

SITE PARKING LAYOUT

KEY NOTES

1. GENERAL PARKING. SEE DETAIL 1 ON A1.3.
2. GARAGE PARKING. SEE DETAIL 2 & 3 ON A1.3.
3. BUS PARKING. SEE DETAIL 5 ON A1.3
4. AMBULANCE AND POLICE PARKING. SEE DETAIL 6 ON A1.3
5. TAXI PARKING. SEE DETAIL 4 ON A1.3.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1/16"=1'-0" (ARCH)
DATE 07.AUG.2015
DRAWN HG
OWNER BL

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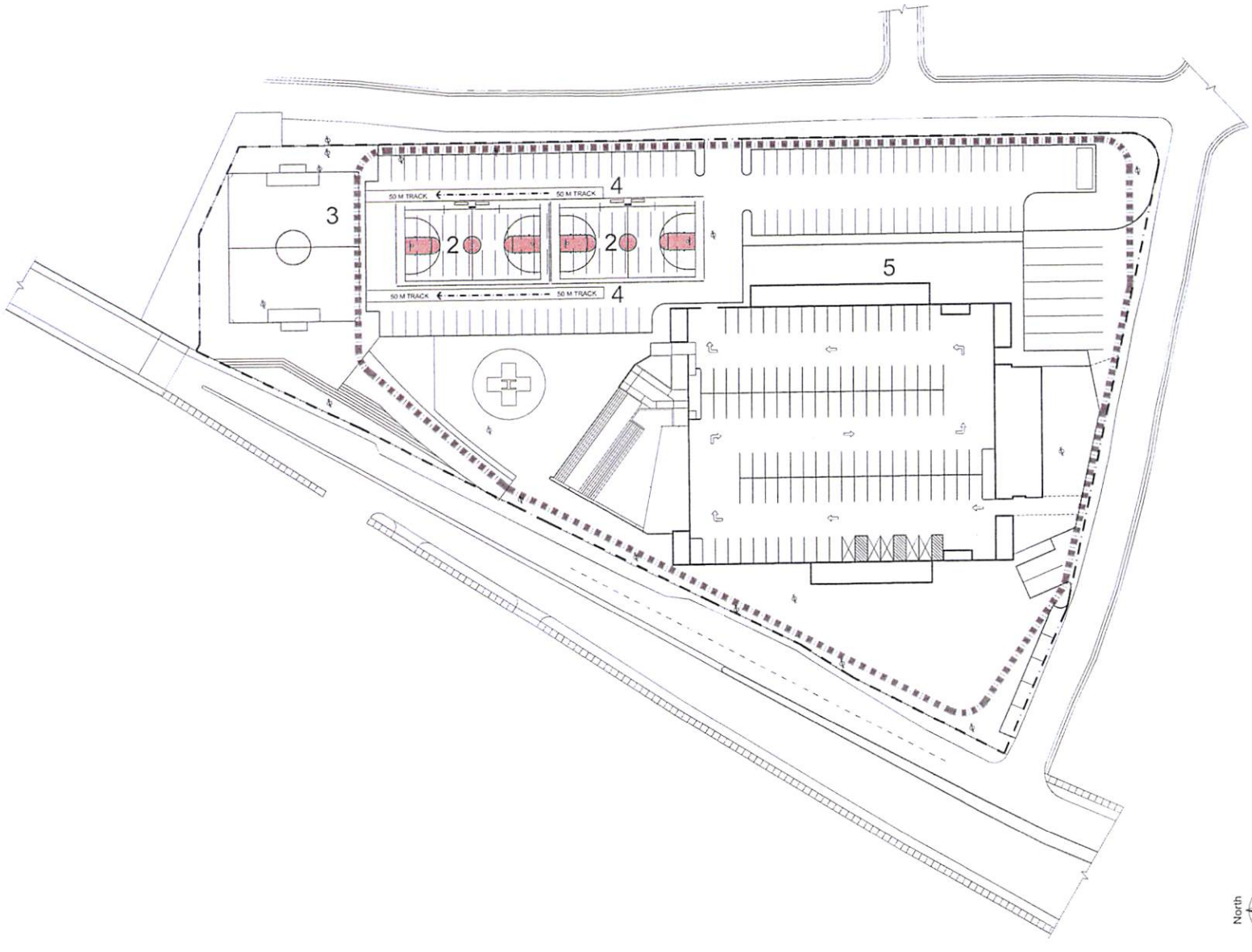

SITE LEGEND

JOG PATH (1596')

KEY NOTES

1. STADIUM
2. BASKETBALL COURT
3. FOOTBALL FIELD
4. 50 METER TRACK
5. OUTDOOR GYM PLAZA

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1/32"=1'-0"
DATE 07.AUG.2015
DRAWN HG
OWNER BL

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SPORTING FACILITIES LAYOUT

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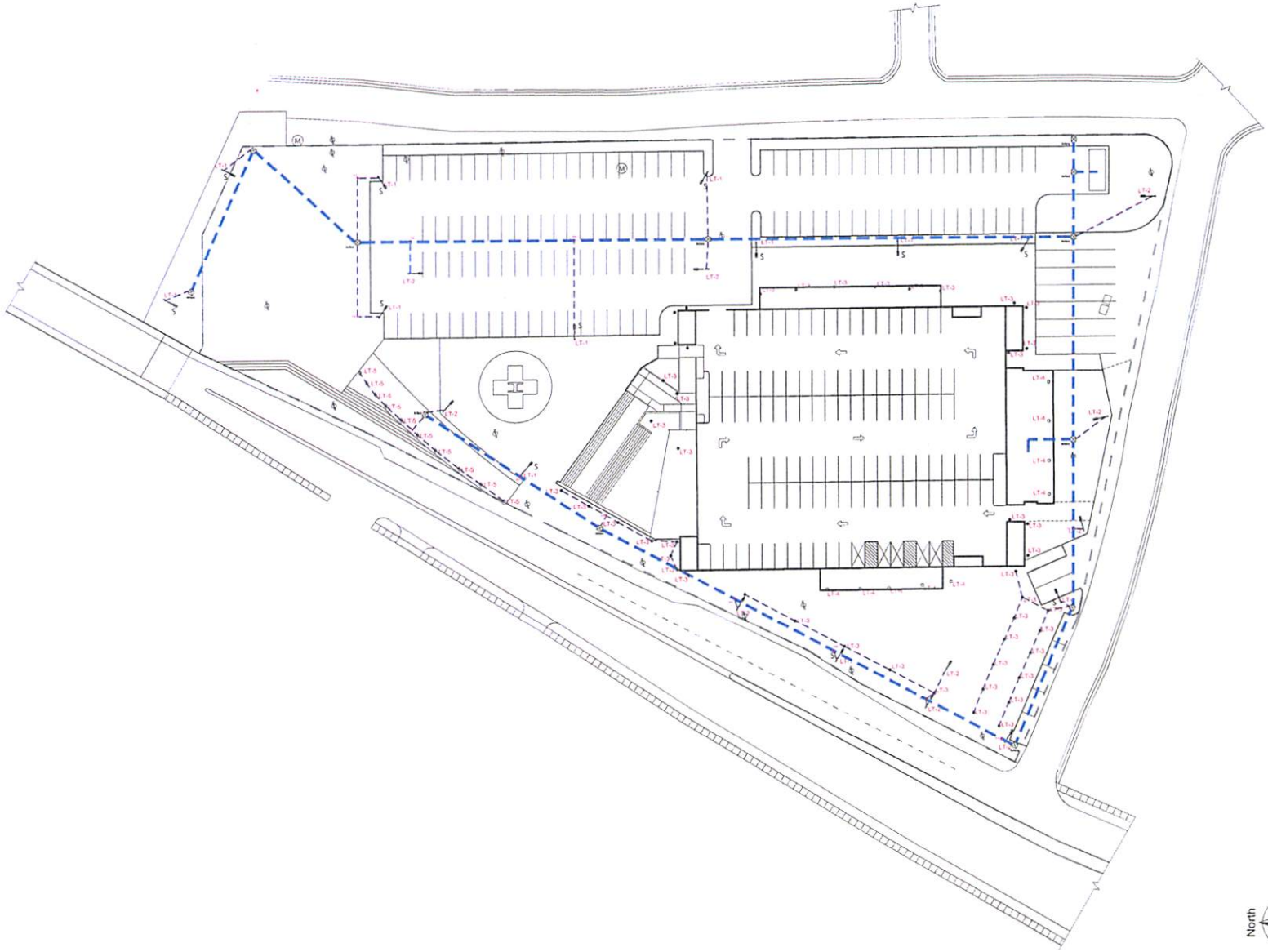

POWER LEGEND

	DESCRIPTION
	FLOOR RECEPTACLE
	STANDARD RECEPTACLE
	DEDICATED RECEPTACLE
	WIRE
	POWER PANEL
	METER BANK
	METER

LIGHTING LEGEND

	DESCRIPTION
	TOT GROUND LIGHT
	POSTER LIGHTS SPOT LIGHT
	LED GROUND LIGHT
	DECK LIGHT 11TH SPOT LIGHT
	DECK LIGHT (5 METER POST)

TRENCHING LEGEND

	SERVICE LINE BELOW GRADE
	AUXILIARY TRENCHING
MH	MANHOLE
H	HANDHOLE

INTERNATIONAL ENVIRONMENTS

ARCH

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT	NO. 2015-01
SCALE	(14"x1.0") (14"x36")
DATE	07.AUG.2015
DRAWN	HG
OWNER	BL

DESIGN DEVELOPMENT

- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOC.
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North

SITE ELECTRICAL PLAN

A 1.5

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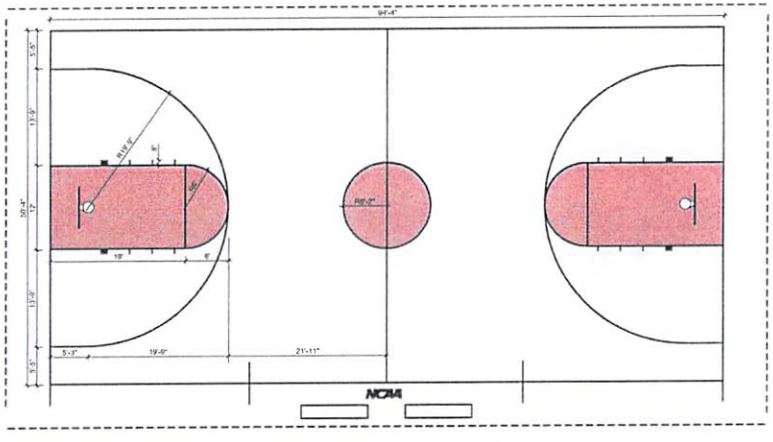
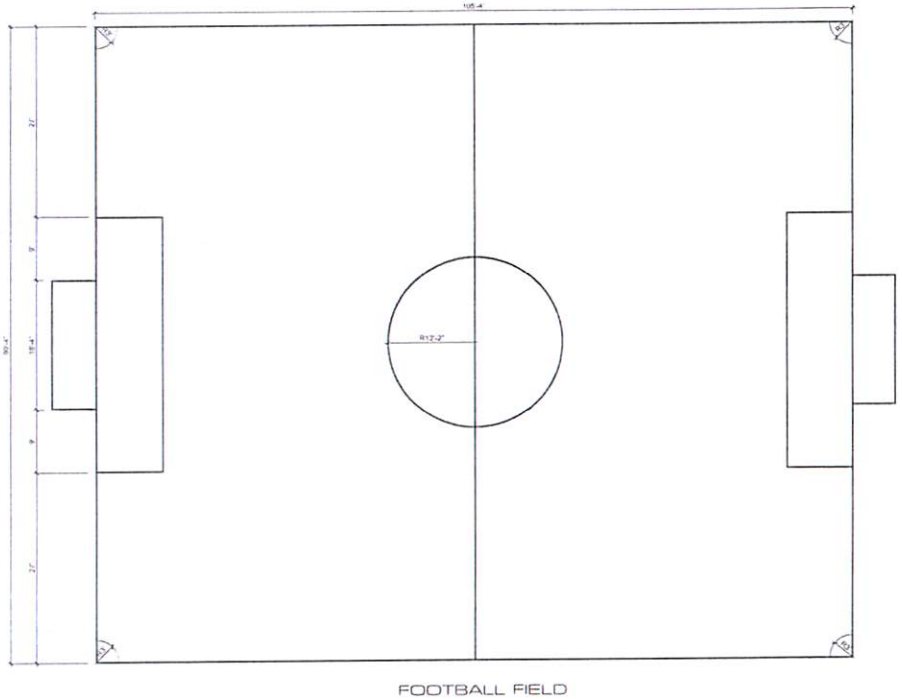
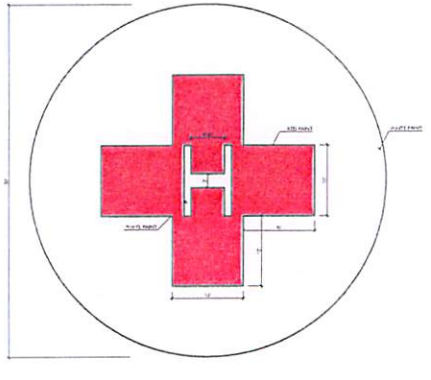


BASKETBALL COURT



FOOTBALL FIELD



GENERAL NOTES

1. EXTERIOR COLOR TO BE VERIFIED BY OWNER W/ ARCHITECTURAL COMMITTEE
2. CORNER & PARAPET WALL ROUNDING MIN OF 3"
3. PROVIDE WEATHER FLASHING/FLEXIBLE @ EXTERIOR WALL PENETRATIONS/OPENINGS (FC703.1, 703.2, 703.8)
4. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

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PROJECT INFO

Civic Center Arena & Sports Park

PROJECT NO. 2015-01

SCALE 1/8"=1'-0"

DATE 07.AUG.2015

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OWNER BL

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A 1.6 SITE DETAILS

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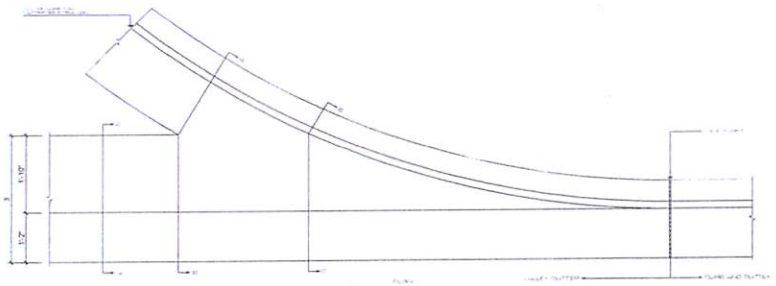
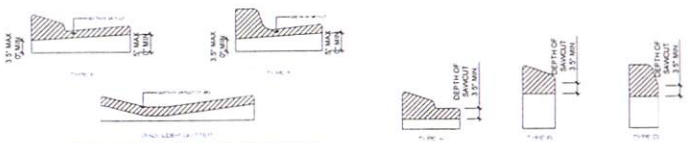


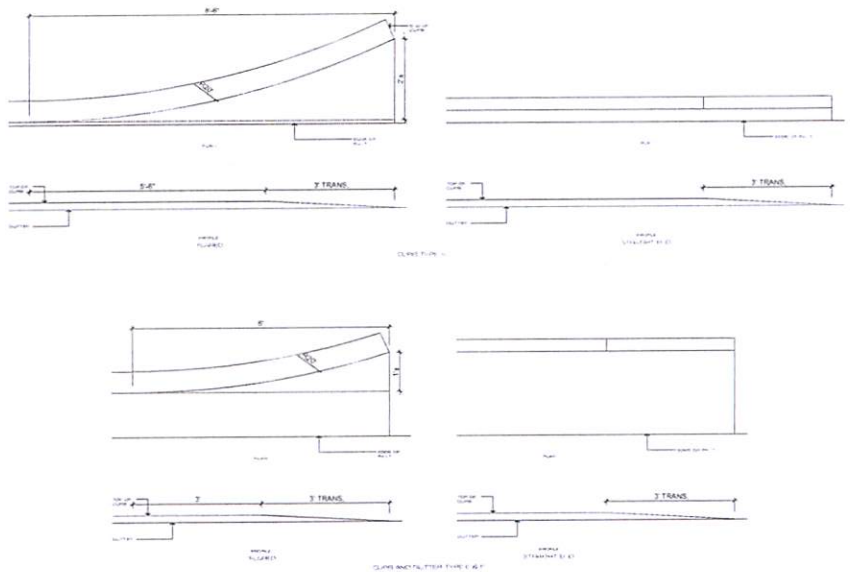
CONCRETE CURB & GUTTER

CONCRETE CURB

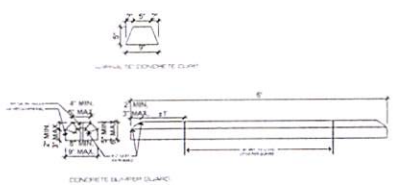


CONTRACTION JOINT IN CURB AND GUTTER

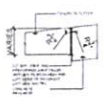
CONTRACTION JOINT IN CURB



CURB AND GUTTER ENDINGS



CURB AND GUTTER AND TYPE A CURB ADJACENT TO FLEXIBLE PAVEMENT



EXPANSION JOINT BETWEEN GUTTER AND CONCRETE PAVEMENT

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01

SCALE

DATE 07.AUG.2015

DRAWN MC

OWNER BL

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SITE DETAILS

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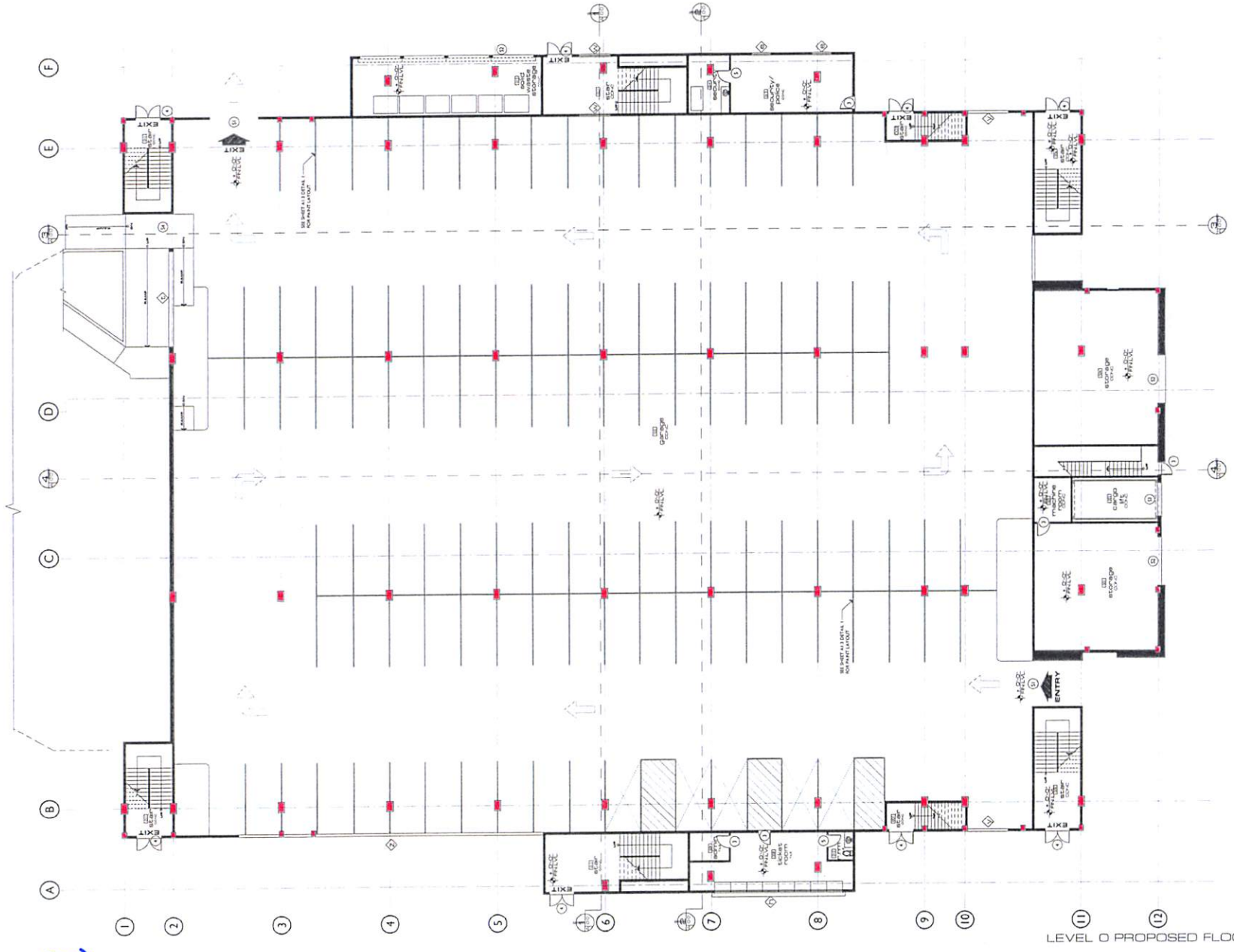

LEVEL 0 PROPOSED FLOOR PLAN

DOOR SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
2	1	5'-0"	7'-0"	A
37	2	3'-0"	7'-0"	B
19	3	5'-0"	7'-0"	C
3	4	3'-0"	7'-0"	D
1	5	3'-0"	7'-0"	E
11	6	5'-0"	7'-0"	F

WINDOW SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
8	a	6'-0"	10'-0"	STOREFRONT
8	b	6'-0"	20'-0"	STOREFRONT
8	c	2'-6"	2'-0"	FIXED
6	d	11'-4"	2'-0"	FIXED
20	e	5'-0"	2'-0"	BLIDING
2	f	11'-4"	20'-0"	STOREFRONT
2	g	31'-0"	2'-0"	FIXED
1	h	12'-0"	4'-4"	STOREFRONT
12	i	20'-0"	2'-0"	STOREFRONT

SCREEN & LOUVERS

QTY	#	WIDTH	HEIGHT	TYPE
1	z	8'-0"	8'-0"	FIXED
2	y	12'-0"	8'-0"	FIXED
1	x	11'-4"	8'-0"	FIXED
2	w	6'-0"	8'-0"	FIXED
8	v	20'-0"	2'-4"	FIXED
8	u	20'-0"	2'-4"	FIXED
1	t	20'-0"	8'-0"	FIXED

SHUTTER SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
2	1	11'-4"	8'-0"	[illegible]
3	2	12'-0"	8'-0"	[illegible]
1	3	6'-0"	8'-0"	[illegible]
2	4	8'-0"	8'-0"	[illegible]

BUILDING AREA

	BUILDING AREA	-	TOTAL SQ.FT.
LEVEL 0	46,419.67	-	46,419.67
LEVEL 1	50,018.48	-	50,018.48
LEVEL 2	10,589.96	-	10,589.96
LEVEL 3	18,089.12	-	18,089.12
LEVEL 4	8,551.42	-	8,551.42
TOTAL	-	-	134,214.25

GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER.

INTERNATIONAL ENVIRONMENTS
ARCHITECTURE DESIGN DEVELOPMENT
[illegible]

ARCH

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT	NO. 2015-01
SCALE	1/32"=1'-0" (NOON)
DATE	07 AUG 2015
DRAWN	MC
OWNER	BL

DESIGN DEVELOPMENT

- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOC.
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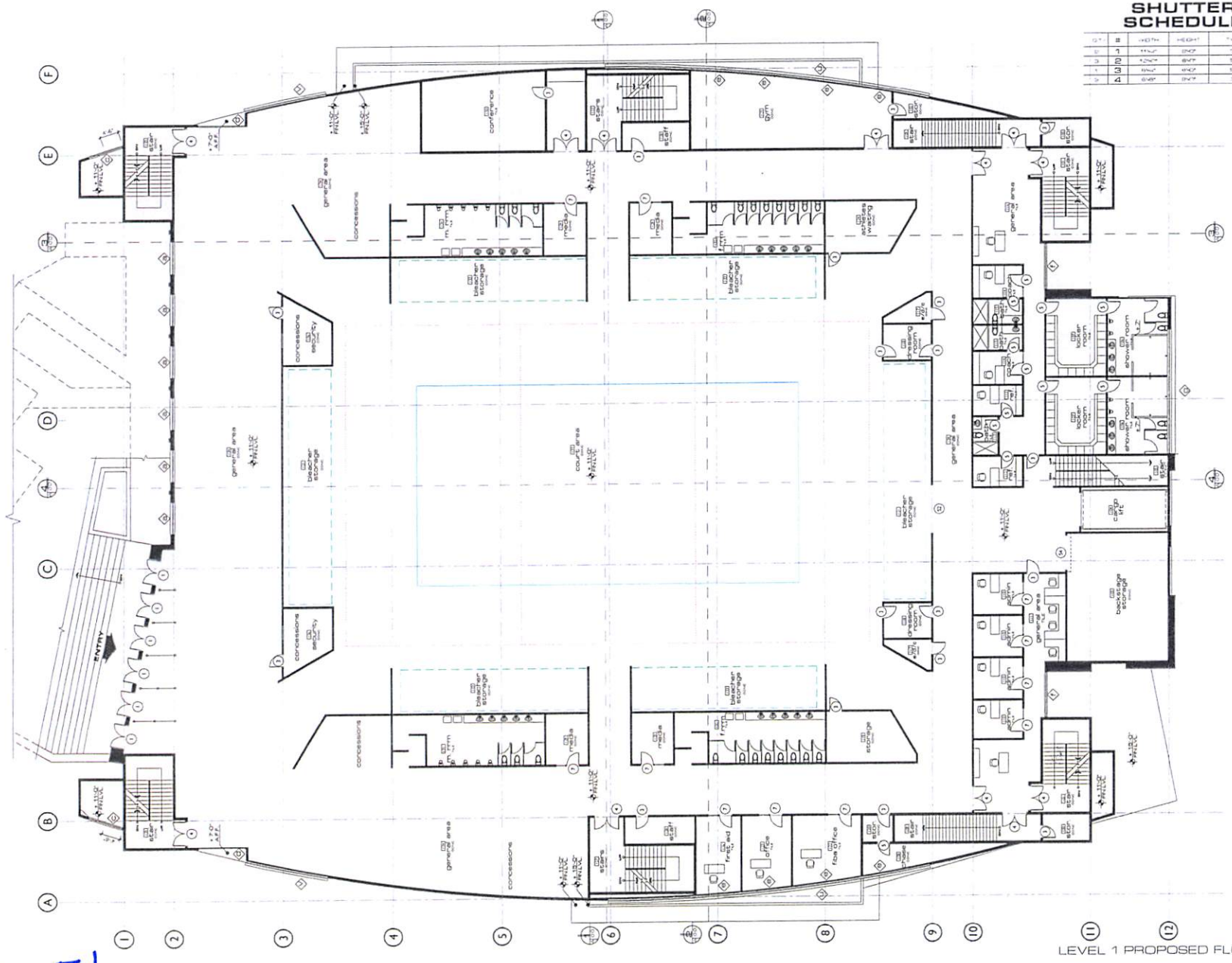

SHUTTER SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
2	1	11'-0"	8'-0"	51
3	2	12'-0"	8'-0"	52
1	3	8'-0"	8'-0"	53
3	4	6'-8"	8'-0"	54

DOOR SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
7	1	5'-0"	7'-0"	A
37	2	3'-0"	7'-0"	B
12	3	5'-0"	7'-0"	C
31	4	3'-0"	7'-0"	D
4	5	3'-0"	7'-0"	E
11	6	6'-0"	7'-0"	F

WINDOW SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
5	a	8'-0"	20'-0"	STOREFRONT
5	b	8'-0"	20'-0"	STOREFRONT
8	c	8'-0"	2'-0"	FIXED
6	d	11'-0"	2'-0"	FIXED
20	e	8'-0"	2'-0"	SLIDING
2	f	11'-0"	28'-0"	STOREFRONT
2	g	31'-0"	2'-0"	FIXED
1	h	30'-0"	4'-0"	STOREFRONT
12	i	20'-0"	2'-0"	STOREFRONT

SCREEN & LOUVERS

QTY	#	WIDTH	HEIGHT	TYPE
1	z	8'-0"	8'-0"	FIXED
2	y	10'-0"	8'-0"	FIXED
1	x	11'-0"	8'-0"	FIXED
3	w	8'-0"	8'-0"	FIXED
4	v	20'-0"	2'-0"	FIXED
8	u	60'-0"	2'-0"	FIXED
1	t	20'-0"	8'-0"	FIXED

BUILDING AREA

	BUILDING AREA	+	TOTAL SQ FT
LEVEL 0	48,419.67	+	48,419.67
LEVEL 1	50,319.49		50,319.49
LEVEL 2	12,524.39	+	12,524.39
LEVEL 3	16,390.12	+	16,390.12
LEVEL 4	8,891.42	+	8,891.42
TOTAL	-	+	136,545.54

LEGEND

PERMANENT BLEACHERS
RETRACTABLE BLEACHERS
PRACTICE BASKETBALL COURT OUTLINE
FIBA BASKETBALL COURT OUTLINE
NCAA BASKETBALL COURT OUTLINE

GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER.

INTERNATIONAL ENVIRONMENTS

ARCH

OWNERSHIP OF INSTRUMENTS OF SERVICE
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DESIGN DEVELOPMENT

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 3/32"=1'-0" (WXH)
DATE 07.AUG.2015
DRAWN MC
OWNER BL

- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOC.
- ☐ CITY SUBMITTAL
- ☐ BID PACKAGE
- ☐ CONSTRUCTION ISSUE
- ☐ CHANGE ORDER # 000

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ISSUE 02.10.15

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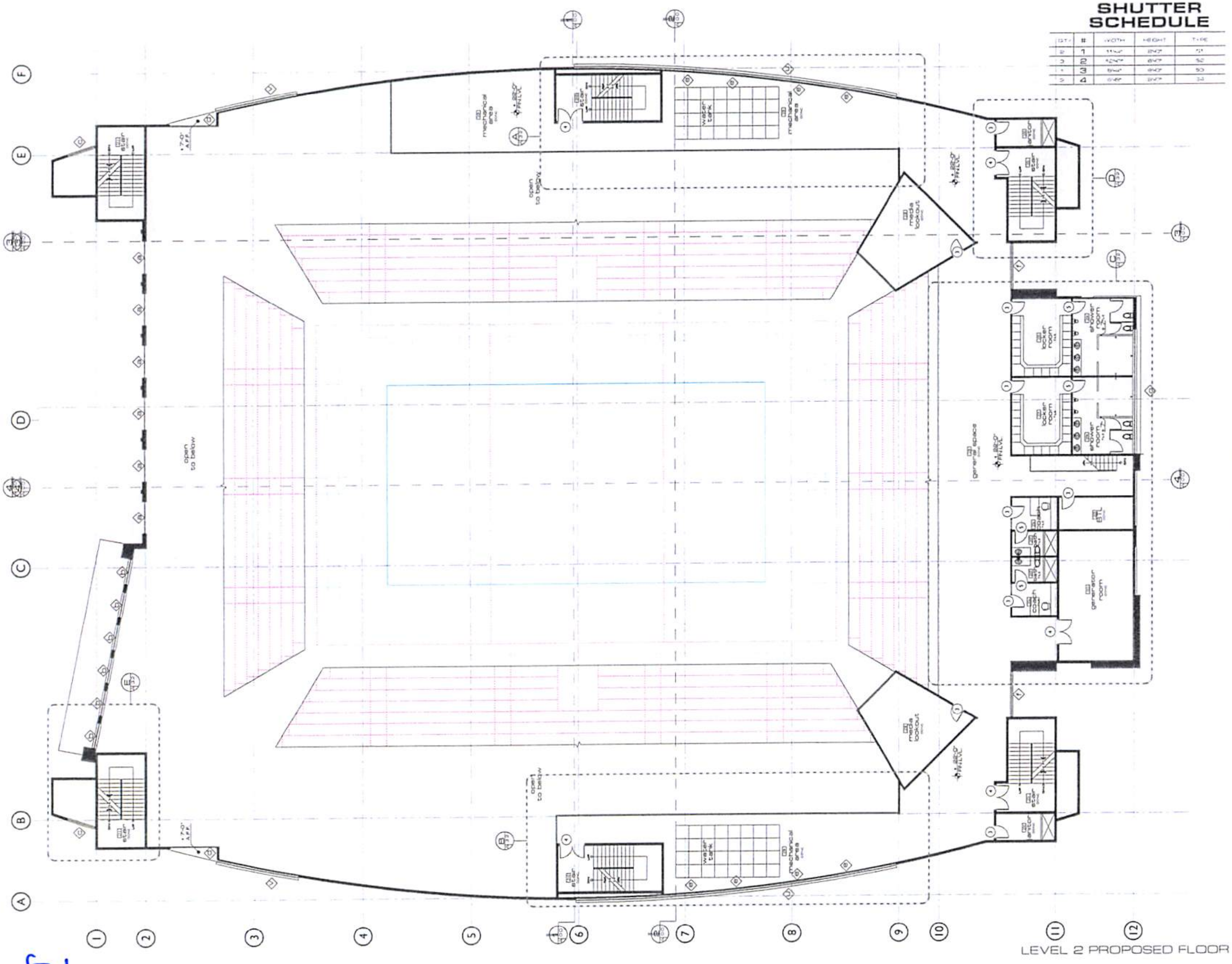
LEVEL 1 PROPOSED FLOOR PLAN



LEVEL 2 PROPOSED FLOOR PLAN

SHUTTER SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
[illegible]	1	[illegible]	[illegible]	[illegible]
[illegible]	2	[illegible]	[illegible]	[illegible]
[illegible]	3	[illegible]	[illegible]	[illegible]
[illegible]	4	[illegible]	[illegible]	[illegible]

DOOR SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
[illegible]	1	[illegible]	[illegible]	[illegible]
[illegible]	2	[illegible]	[illegible]	[illegible]
[illegible]	3	[illegible]	[illegible]	[illegible]
[illegible]	4	[illegible]	[illegible]	[illegible]
[illegible]	5	[illegible]	[illegible]	[illegible]
[illegible]	6	[illegible]	[illegible]	[illegible]

WINDOW SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
[illegible]	a	[illegible]	[illegible]	STOREFRONT
[illegible]	b	[illegible]	[illegible]	STOREFRONT
[illegible]	c	[illegible]	[illegible]	FIXED
[illegible]	d	[illegible]	[illegible]	FIXED
20	e	[illegible]	[illegible]	SLIDING
[illegible]	f	[illegible]	[illegible]	STOREFRONT
[illegible]	g	[illegible]	[illegible]	FIXED
[illegible]	h	[illegible]	[illegible]	STOREFRONT
[illegible]	i	[illegible]	[illegible]	STOREFRONT

SCREEN & LOUVERS

QTY	#	WIDTH	HEIGHT	TYPE
[illegible]	z	[illegible]	[illegible]	FIXED
[illegible]	y	[illegible]	[illegible]	FIXED
[illegible]	x	[illegible]	[illegible]	FIXED
[illegible]	w	[illegible]	[illegible]	FIXED
[illegible]	v	[illegible]	[illegible]	[illegible]
[illegible]	u	[illegible]	[illegible]	FIXED
[illegible]	t	[illegible]	[illegible]	[illegible]

BUILDING AREA

	BUILDING AREA		TOTAL
LEVEL 0	[illegible]	-	[illegible]
LEVEL 1	[illegible]		[illegible]
LEVEL 2	[illegible]	-	[illegible]
LEVEL 3	[illegible]	-	[illegible]
LEVEL 4	[illegible]	-	[illegible]
TOTAL	-	-	[illegible]

LEGEND

PERMANENT BLEACHERS
RETRACTABLE BLEACHERS
PRACTICE BASKETBALL COURT OUTLINE
FIBA BASKETBALL COURT OUTLINE
NCAA BASKETBALL COURT OUTLINE

GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center Arena & Sports Park

PROJECT NO. 2015-01
SCALE
DATE 07.AUG.2015
DRAWN
OWNER

☒ DESIGN DEVELOPMENT
☐ CONSTRUCTION DOC
☐ QTY SUBMITTAL
☐ BID PACKAGE
☐ CONSTRUCTION ISSUE
☐ CHANGE ORDER # 000

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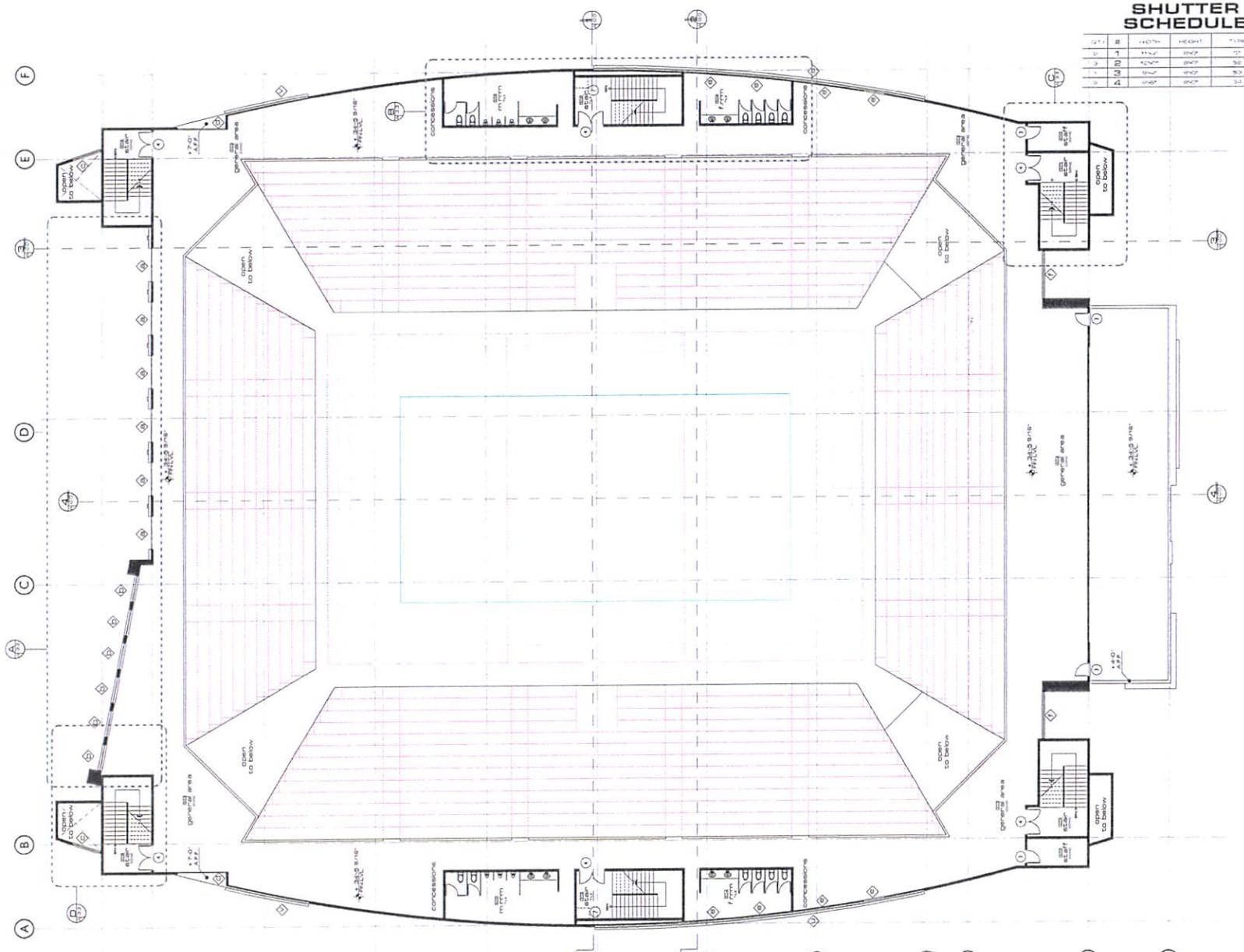
I.E.



SHUTTER SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
2	1	11'-0"	8'-0"	[illegible]
3	2	12'-0"	8'-0"	[illegible]
1	3	9'-0"	8'-0"	[illegible]
9	4	9'-6"	8'-0"	[illegible]

DOOR SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
1	1	5'-0"	7'-0"	A
37	2	3'-0"	7'-0"	B
18	3	5'-0"	7'-0"	C
31	4	3'-0"	7'-0"	D
1	5	3'-0"	7'-0"	E
11	6	5'-0"	7'-0"	F

WINDOW SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
9	a	8'-0"	25'-0"	STOREFRONT
9	b	5'-0"	20'-0"	STOREFRONT
6	c	8'-6"	2'-0"	FIXED
8	d	11'-6"	2'-0"	FIXED
20	e	5'-0"	2'-0"	SLIDING
2	f	11'-0"	28'-0"	STOREFRONT
2	g	31'-0"	2'-0"	FIXED
1	h	32'-0"	4'-0"	STOREFRONT
12	i	20'-0"	3'-0"	STOREFRONT

SCREEN & LOUVERS

QTY	#	WIDTH	HEIGHT	TYPE
1	z	75'-0"	8'-0"	FIXED
2	y	10'-0"	8'-0"	FIXED
1	x	11'-0"	8'-0"	FIXED
2	w	3'-0"	8'-0"	FIXED
4	v	20'-0"	2'-0"	FIXED
8	u	60'-0"	2'-0"	FIXED
1	t	2'-0"	8'-0"	FIXED

BUILDING AREA

	BUILDING AREA	+	TOTAL SQ.FT.
LEVEL 0	46,419.67	+	46,419.67
LEVEL 1	50,316.48		50,316.48
LEVEL 2	12,524.20	+	12,524.20
LEVEL 3	16,280.12	+	16,280.12
LEVEL 4	6,591.62	+	6,591.62
TOTAL	+	+	1,[illegible]

LEGEND

PERMANENT BLEACHERS
RETRACTABLE BLEACHERS
PRACTICE BASKETBALL COURT OUTLINE
FIBA BASKETBALL COURT OUTLINE
NCAA BASKETBALL COURT OUTLINE

GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER

INTERNATIONAL ENVIRONMENTS
[illegible]

ARCH

[illegible]

DESIGN DEVELOPMENT

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE [illegible]
DATE 07.AUG.2015
DRAWN AA
OWNER BL

- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOC.
- ☐ CITY SUBMITTAL
- ☐ BID PACKAGE
- ☐ CONSTRUCTION ISSUE
- ☐ CHANGE ORDER # 000

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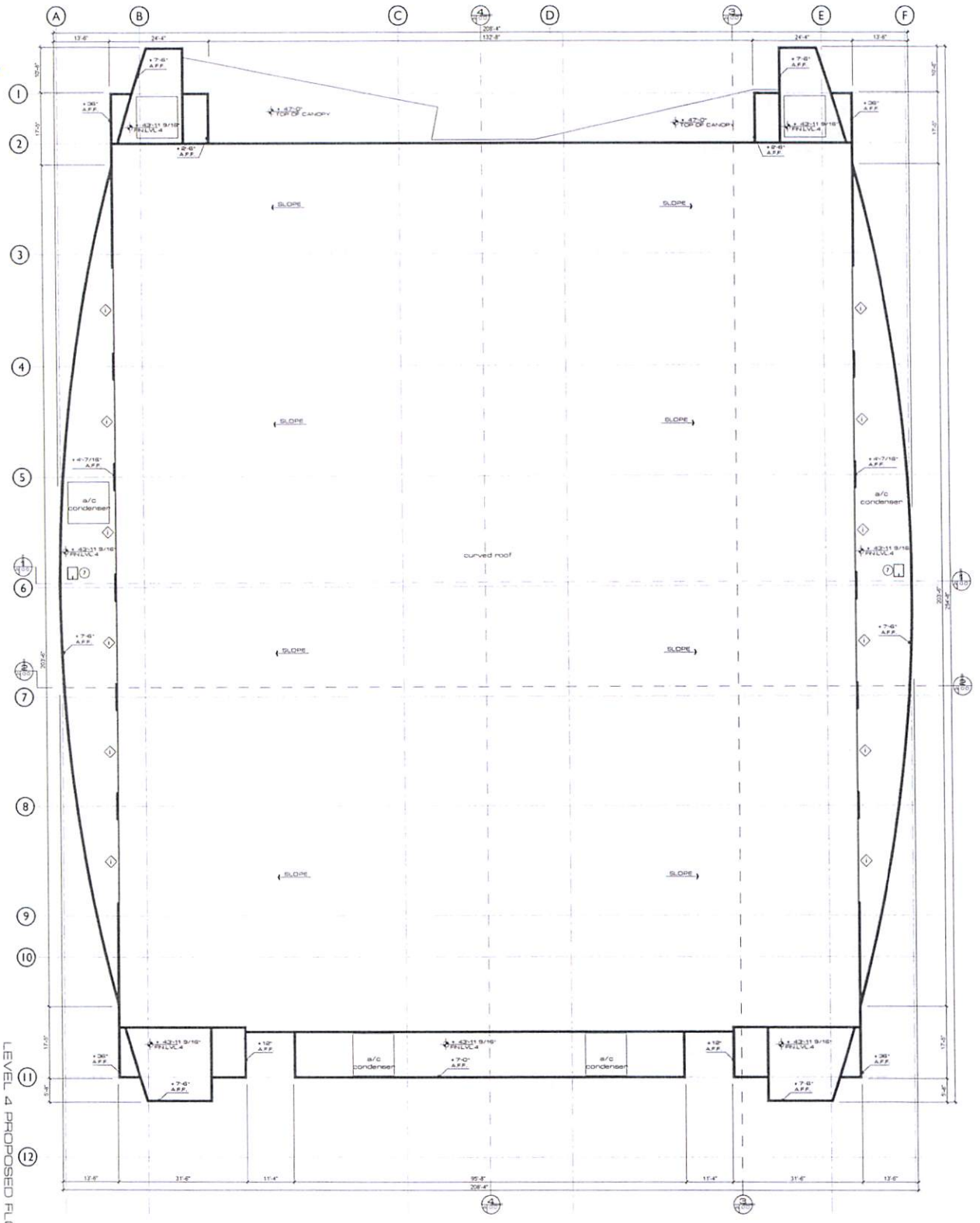
LEVEL 3 PROPOSED FLOOR PLAN



LEVEL 4 PROPOSED FLOOR PLAN

A 2.4

DESIGN DEVELOPMENT

02.10.15

DOOR SCHEDULE

WINDOW SCHEDULE

SCREEN & LOUVERS

SHUTTER SCHEDULE

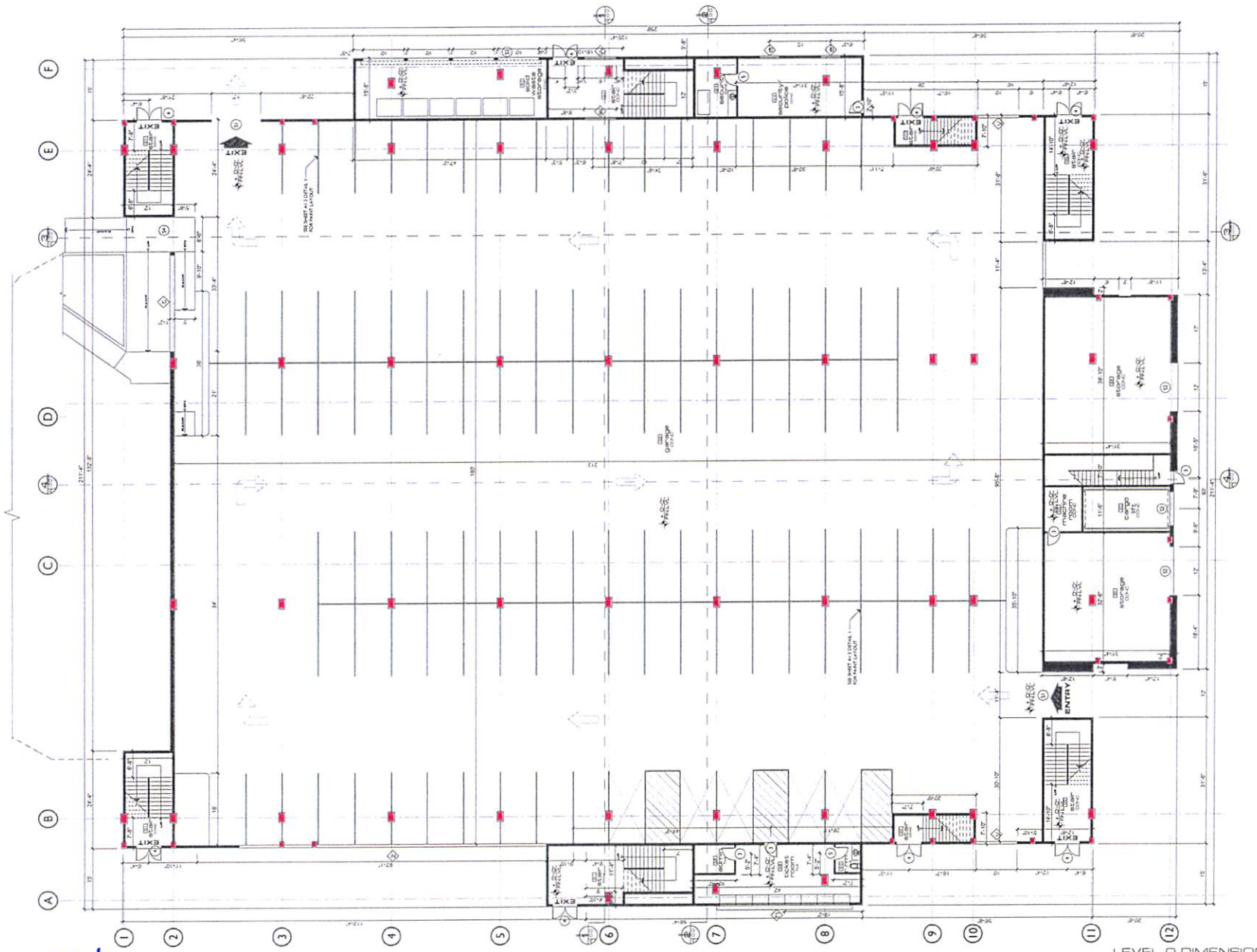
BUILDING AREA

GENERAL NOTES

PROJECT INFO

Civic Center
Arena & Sports Park

DESIGN DEVELOPMENT
CONSTRUCTION DOC
CITY SUBMITTAL
BID PACKAGE
CONSTRUCTION ISSUE
OWNERS ORDER # 000



DOOR SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
[illegible]	1	[illegible]	[illegible]	[illegible]
37	2	[illegible]	[illegible]	[illegible]
[illegible]	3	[illegible]	[illegible]	[illegible]
[illegible]	4	[illegible]	[illegible]	[illegible]
[illegible]	5	[illegible]	[illegible]	[illegible]
[illegible]	6	[illegible]	[illegible]	[illegible]

WINDOW SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
[illegible]	a	[illegible]	[illegible]	STOREFRONT
[illegible]	b	[illegible]	[illegible]	STOREFRONT
[illegible]	c	[illegible]	[illegible]	FIXED
[illegible]	d	[illegible]	[illegible]	FIXED
[illegible]	e	[illegible]	[illegible]	[illegible]
[illegible]	f	[illegible]	[illegible]	STOREFRONT
[illegible]	g	[illegible]	[illegible]	FIXED
[illegible]	h	[illegible]	[illegible]	[illegible]
[illegible]	i	[illegible]	[illegible]	STOREFRONT

SCREEN & LOUVERS

QTY	#	WIDTH	HEIGHT	TYPE
[illegible]	z	[illegible]	[illegible]	FIXED
[illegible]	y	[illegible]	[illegible]	FIXED
[illegible]	x	[illegible]	[illegible]	FIXED
[illegible]	w	[illegible]	[illegible]	FIXED
[illegible]	v	[illegible]	[illegible]	FIXED
[illegible]	u	[illegible]	[illegible]	FIXED
[illegible]	t	[illegible]	[illegible]	FIXED

SHUTTER SCHEDULE

QTY	#	WIDTH	HEIGHT	TYPE
[illegible]	1	[illegible]	[illegible]	[illegible]
[illegible]	2	[illegible]	[illegible]	[illegible]
[illegible]	3	[illegible]	[illegible]	[illegible]
[illegible]	4	[illegible]	[illegible]	[illegible]

BUILDING AREA

	BUILDING AREA	+	TOTAL SQ FT
LEVEL 0	[illegible]	+	[illegible]
LEVEL 1	[illegible]		[illegible]
LEVEL 2	[illegible]	+	[illegible]
LEVEL 3	[illegible]	+	[illegible]
LEVEL 4	[illegible]	+	[illegible]
TOTAL	+	+	[illegible]

GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER.

INTERNATIONAL ENVIRONMENTS
[illegible]

ARCH

[illegible]

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT	NO. 2015-01
SCALE	[illegible]
DATE	07.AUG.2015
DRAWN	NIC
OWNER	BL

- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOC
- ☐ CITY SUBMITTAL
- ☐ BID PACKAGE
- ☐ CONSTRUCTION ISSUE
- ☐ CHANGE ORDER # 000

DESIGN DEVELOPMENT

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ISSUE 02.10.15

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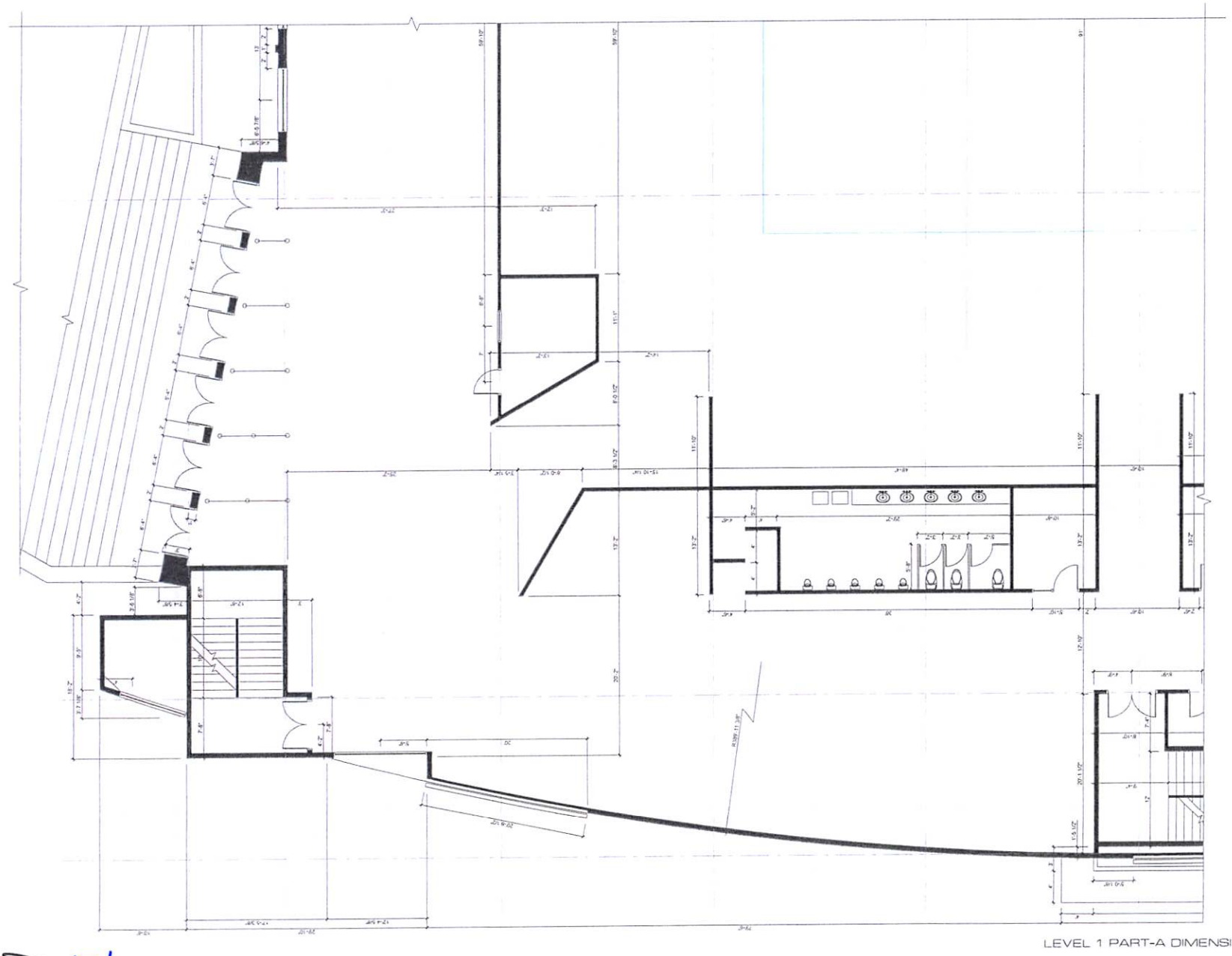
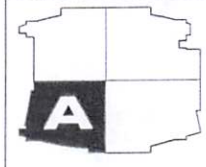
LEVEL 0 DIMENSION PLAN



LEVEL 1 PART-A DIMENSION PLAN

KEY PLAN



GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER.

INTERNATIONAL ENVIRONMENTS

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01

SCALE 1/8"=1'-0" (11"x17")

DATE 07.AUG.2015

DRAWN N/C

OWNER BL

DESIGN DEVELOPMENT

- [x] DESIGN DEVELOPMENT
- [ ] CONSTRUCTION DOC
- [ ] CITY SUBMITTAL
- [ ] BID PACKAGE
- [ ] CONSTRUCTION ISSUE
- [ ] CHANGE ORDER # 000

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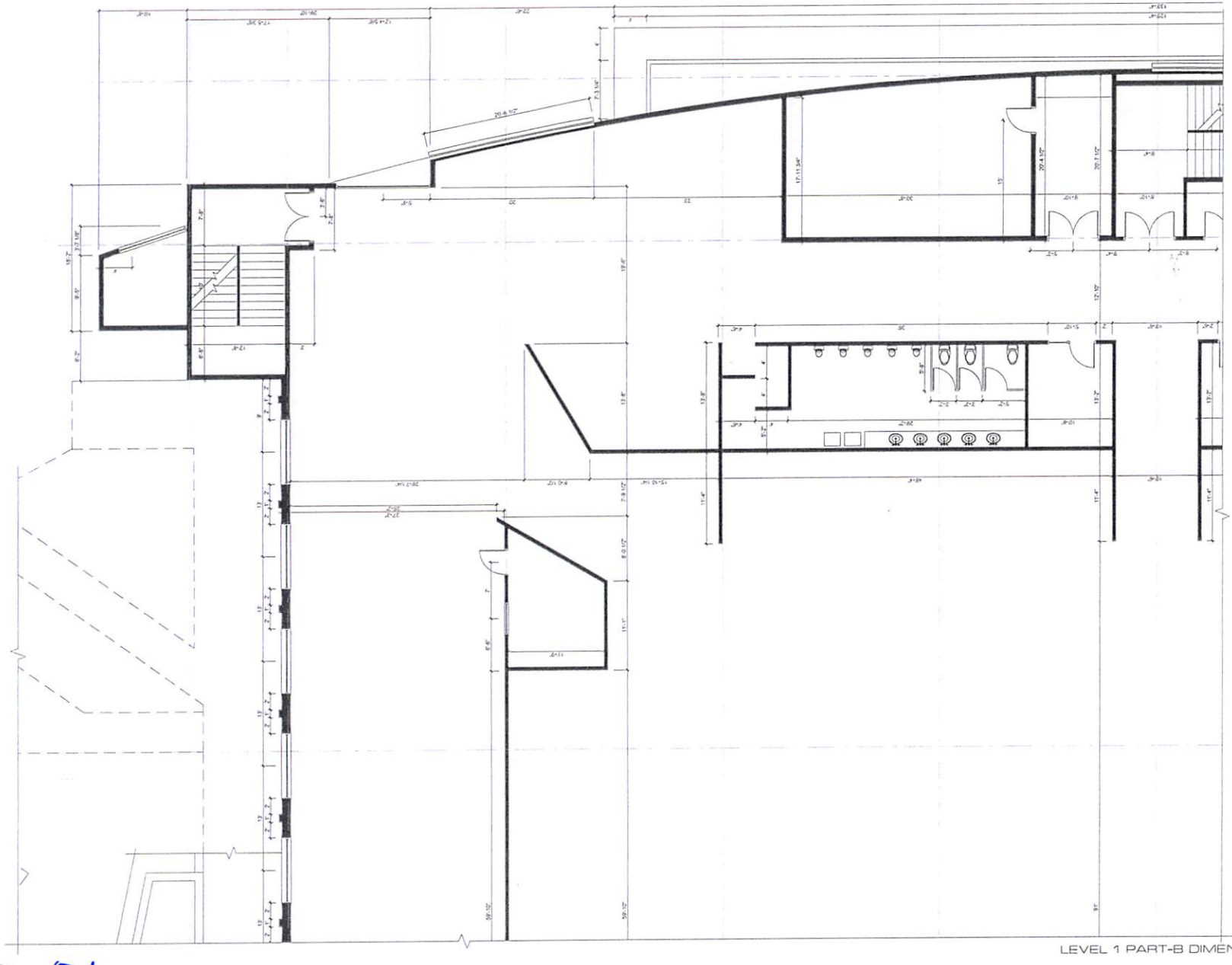
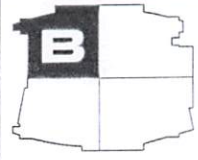


LEVEL 1 PART-B DIMENSION PLAN

KEY PLAN



GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER.

INTERNATIONAL ENVIRONMENTS®

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1/16"=1'-0"
DATE 07.AUG.2015
DRAWN AC
OWNER BL

DESIGN DEVELOPMENT

- [x] DESIGN DEVELOPMENT
- [ ] CONSTRUCTION DOC
- [ ] CITY SUBMITTAL
- [ ] BID PACKAGE
- [ ] CONSTRUCTION ISSUE
- [ ] CHANGE ORDER # 000

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ISSUE 02.10.15

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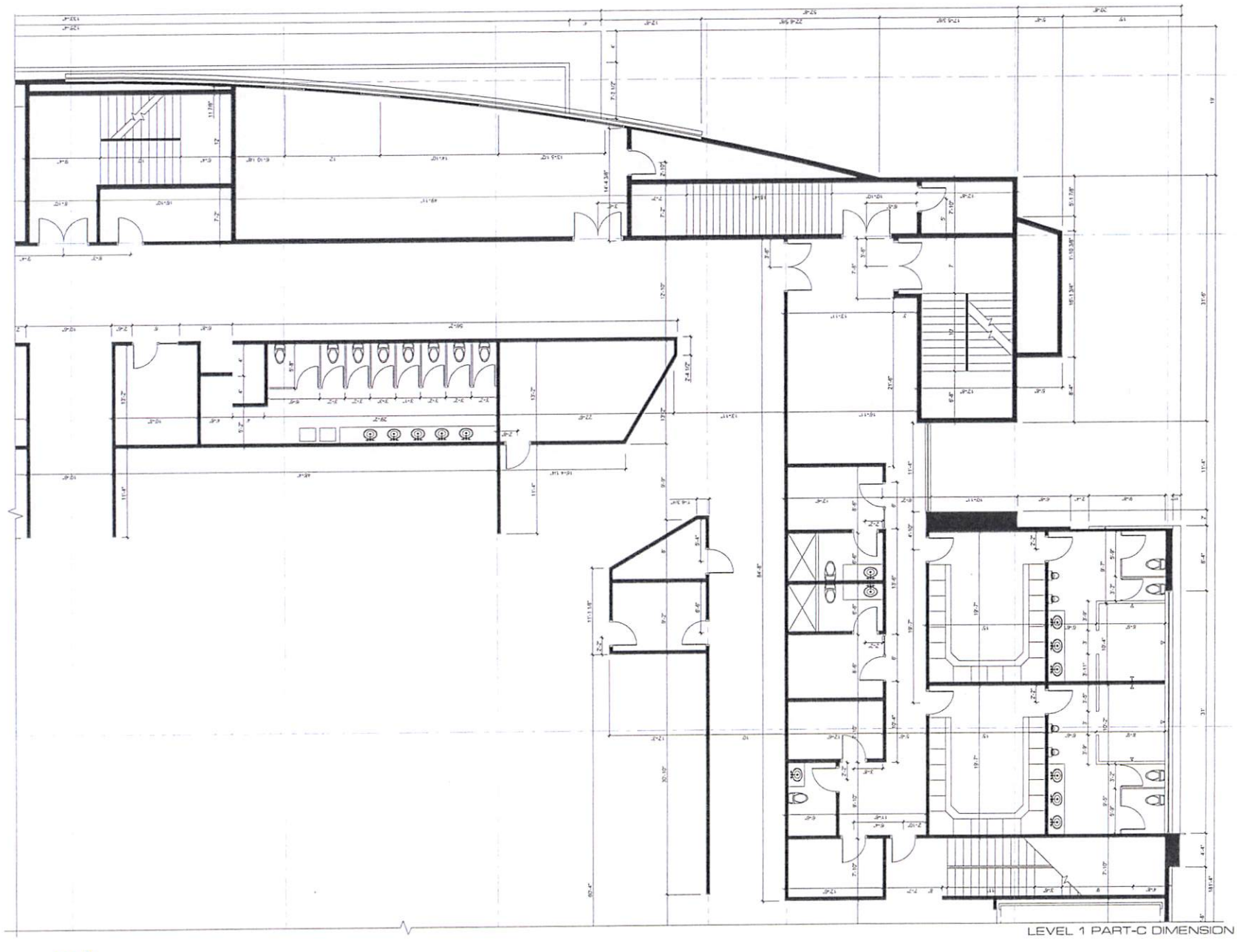
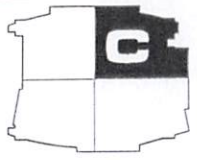


LEVEL 1 PART-C DIMENSION PLAN

KEY PLAN



GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1/16"=1'-0" (11x17)
DATE 07.AUG.2015
DRAWN NIC
OWNER BL

- [x] DESIGN DEVELOPMENT
- [ ] CONSTRUCTION DOC
- [ ] CITY SUBMITTAL
- [ ] BID PACKAGE
- [ ] CONSTRUCTION ISSUE
- [ ] CHANGE ORDER # 000

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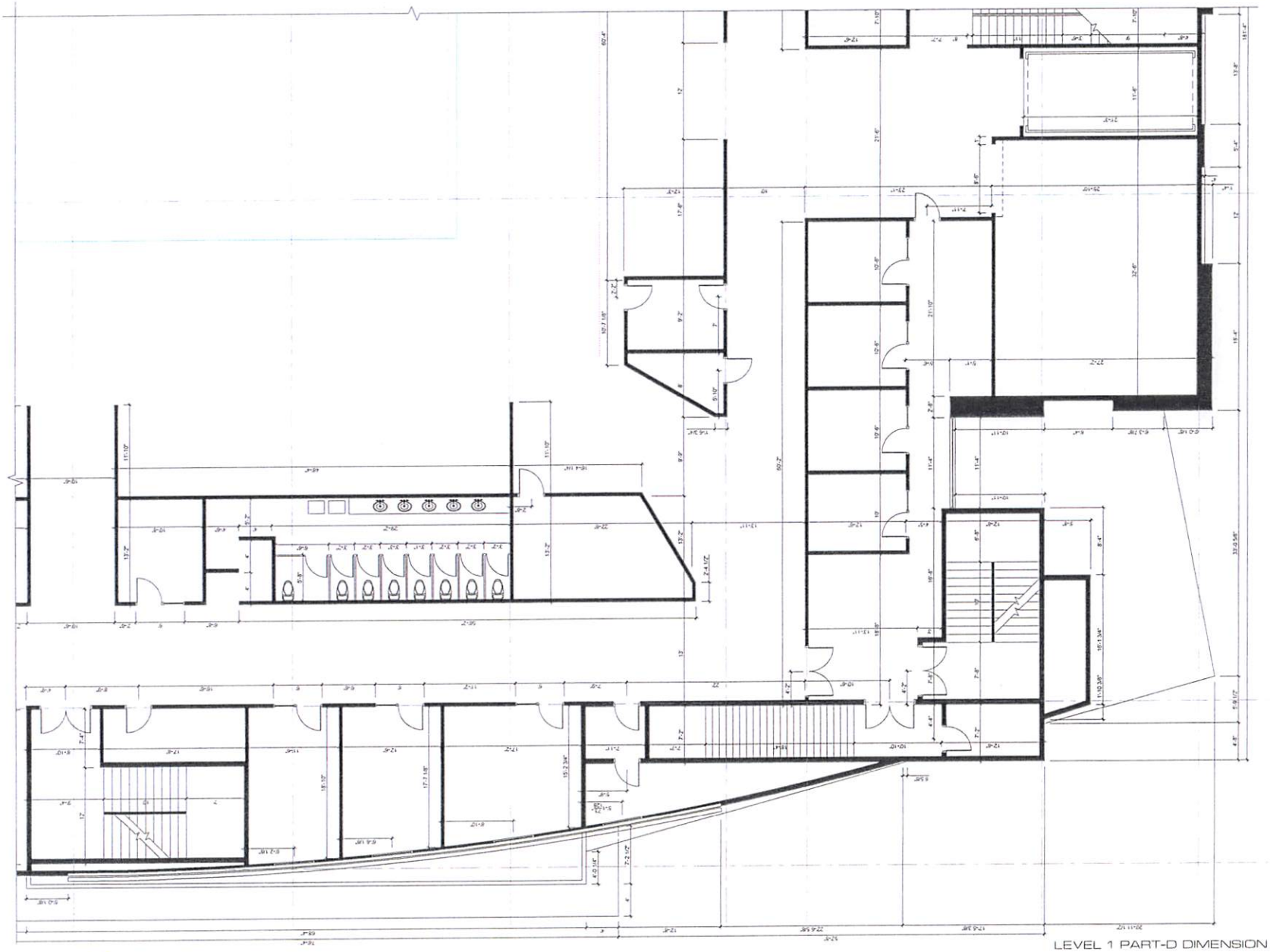
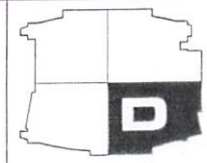


LEVEL 1 PART-D DIMENSION PLAN

KEY PLAN



GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO: 2015-01
SCALE: 1/16"=1'-0"
DATE: 07.AUG.2015
DRAWN: MC
OWNER: BL

- [x] DESIGN DEVELOPMENT
- [ ] CONSTRUCTION DOC
- [ ] CITY SUBMITTAL
- [ ] BID PACKAGE
- [ ] CONSTRUCTION ISSUE
- [ ] CHANGE ORDER # 000

3.1d

ISSUE: 02.10.15

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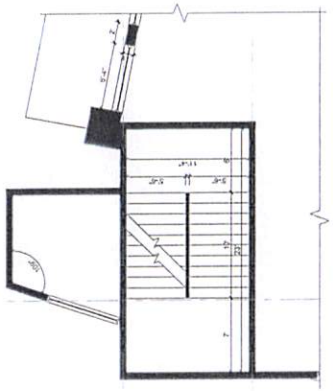
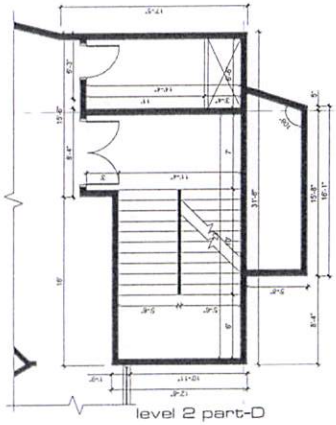
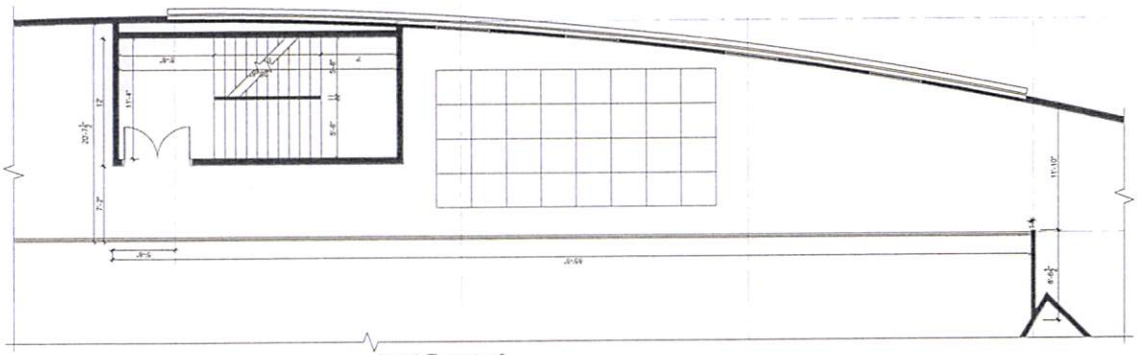


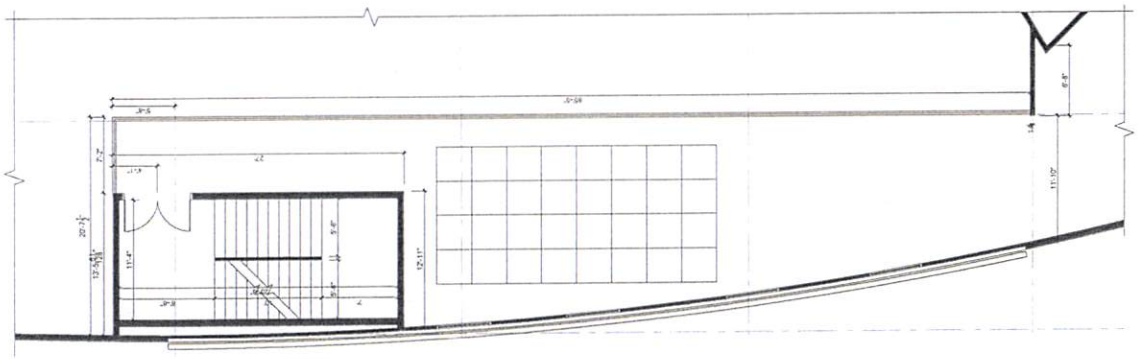
level 2 part-E



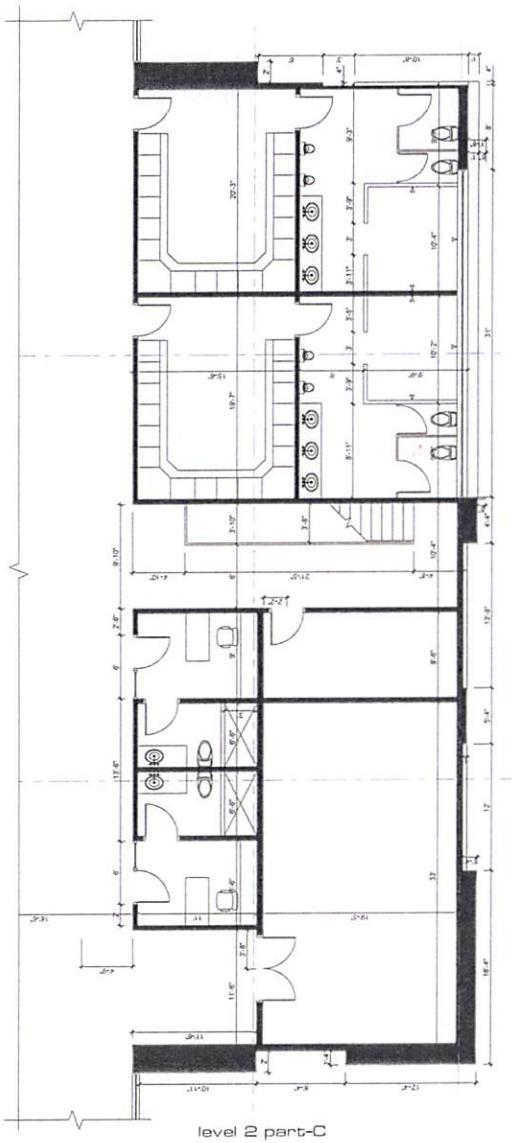
level 2 part-D



level 2 part-A



level 2 part-B



level 2 part-C

LEVEL 2 PART DIMENSION PLAN

GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER.

INTERNATIONAL ENVIRONMENTS

ARCH

DESIGN DEVELOPMENT

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT	NO. 2015-01
SCALE	1/16"=1'-0"
DATE	07.AUG.2015
DRAWN	HG
OWNER	BL

- ☒ DESIGN DEVELOPMENT
- ☐ CONSTRUCTION DOC.
- ☐ CITY SUBMITTAL
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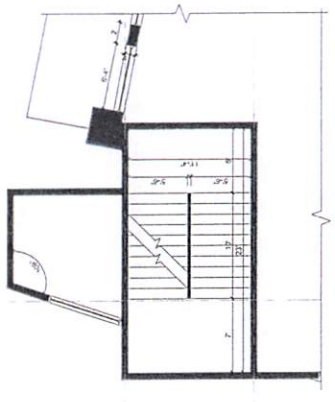
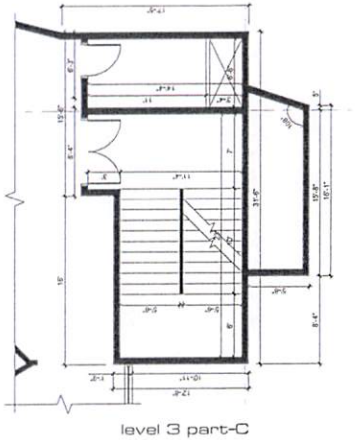
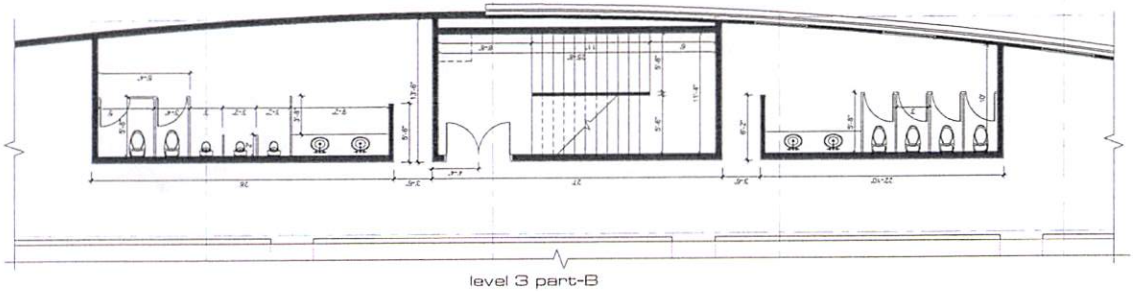


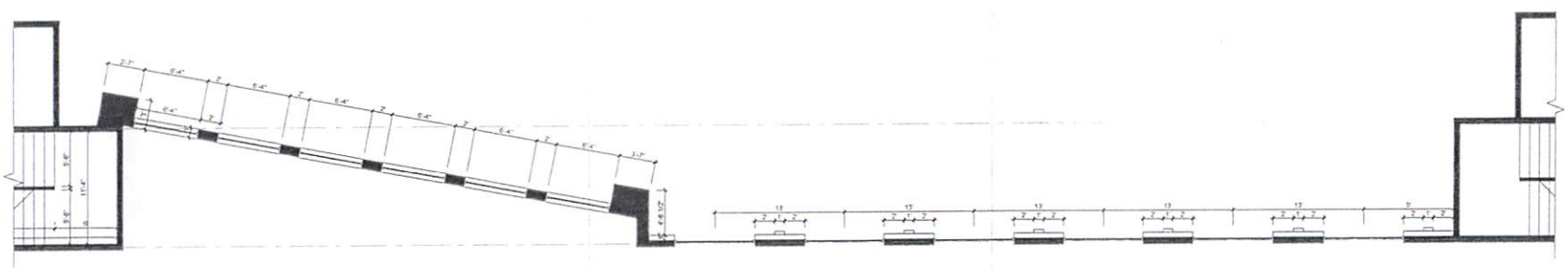
level 3 part-D



level 3 part-C



level 3 part-B



level 3 part-A

LEVEL 3 PART DIMENSION PLAN

GENERAL NOTES

1. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.
2. CONCRETE FINISH (CONC.) SHALL BE STEEL FLOAT FINISH WITH CLEAR SEALER.

INTERNATIONAL ENVIRONMENTS

ARCH

DESIGN DEVELOPMENT

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT	NO. 2015-01
SCALE	1/16"=1'-0" (HOOK)
DATE	07.AUG.2015
DRAWN	NIC
OWNER	BL

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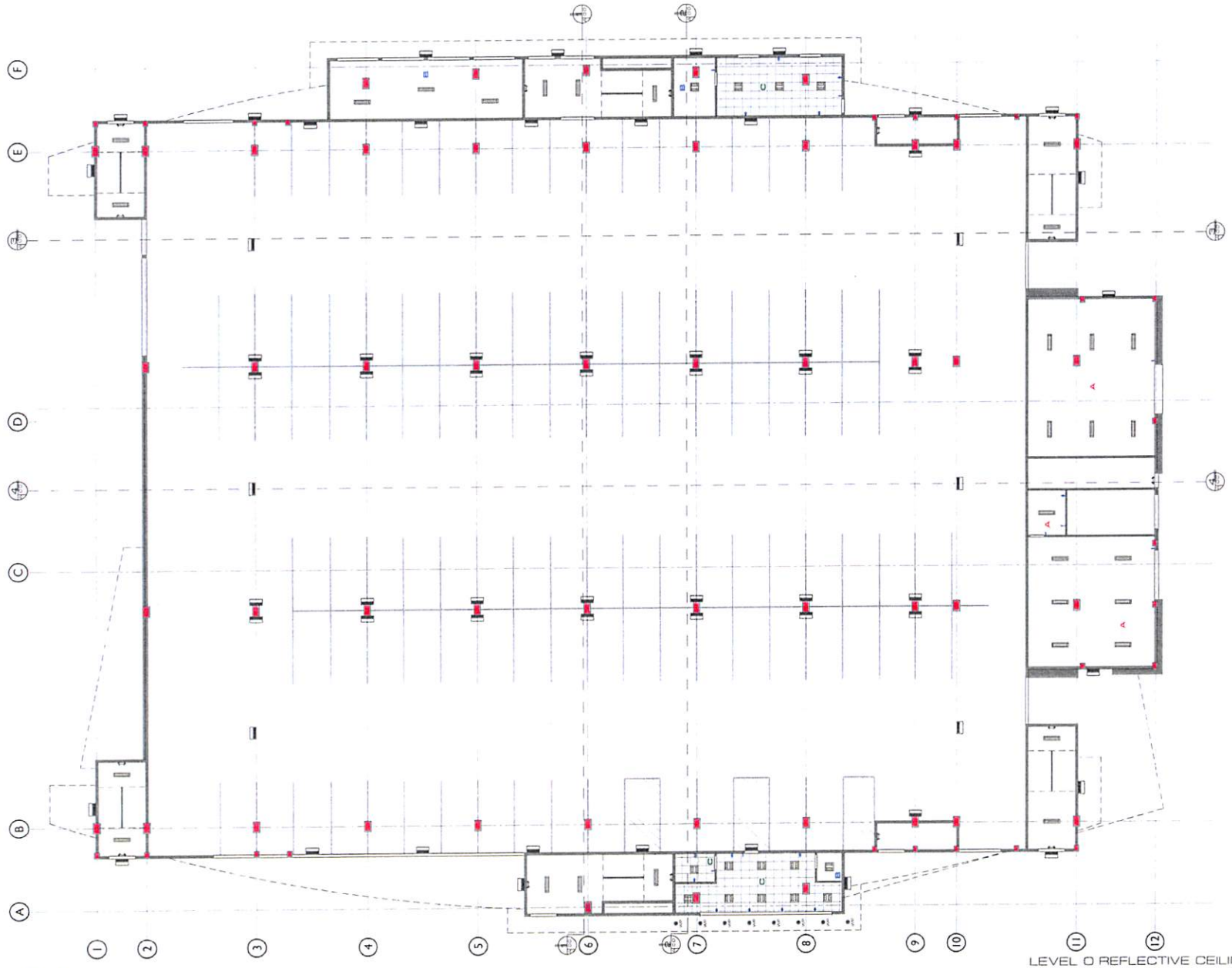

LIGHTING LEGEND

CELING KEY NOTES

GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE REFERENCED FROM ADJACENT INTERIOR FINISH FLOOR.
2. ALL EXTERIOR SOFFITS ARE TO BE EXTERIOR FINISH.
3. SEE POWER PLAN FOR LIGHTING LEGEND.
4. ALL LIGHTS TO BE RECESSED INTO CEILING.
5. ALL RECESSED LIGHTING TO BE MARKED OUT PRIOR TO FINISH INSTALLATION.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01

SCALE: 1/32"=1'-0"

DATE: 07.AUG.2015

DRAWN: N.C.

OWNER: EL

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LEVEL 0 REFLECTIVE CEILING PLAN

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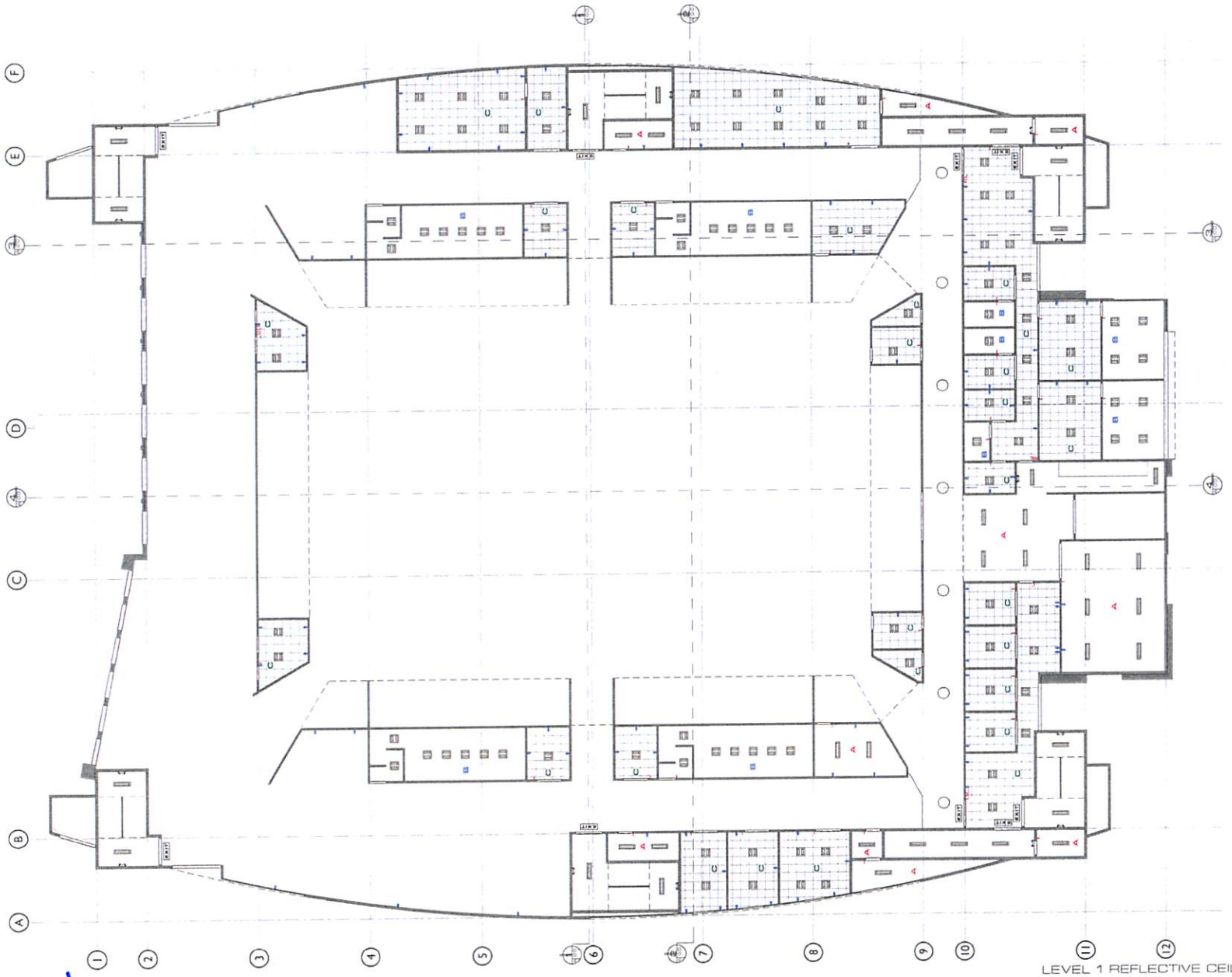

LEVEL 1 REFLECTIVE CEILING PLAN

LIGHTING LEGEND

CELING KEY NOTES

GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE REFERENCED FROM ADJACENT INTERIOR FINISH FLOOR.
2. ALL EXTERIOR SOFFITS ARE TO BE EXTERIOR PLYCEM.
3. SEE POWER PLAN FOR LIGHTING LEGEND.
4. ALL LIGHTS TO BE RECESSED INTO CEILING.
5. ALL RECESSED LIGHTING TO BE FRAMED OUT PRIOR TO FINISH INSTALLATION.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE
DATE 07.AUG.2015
DRAWN MC
OWNER BL

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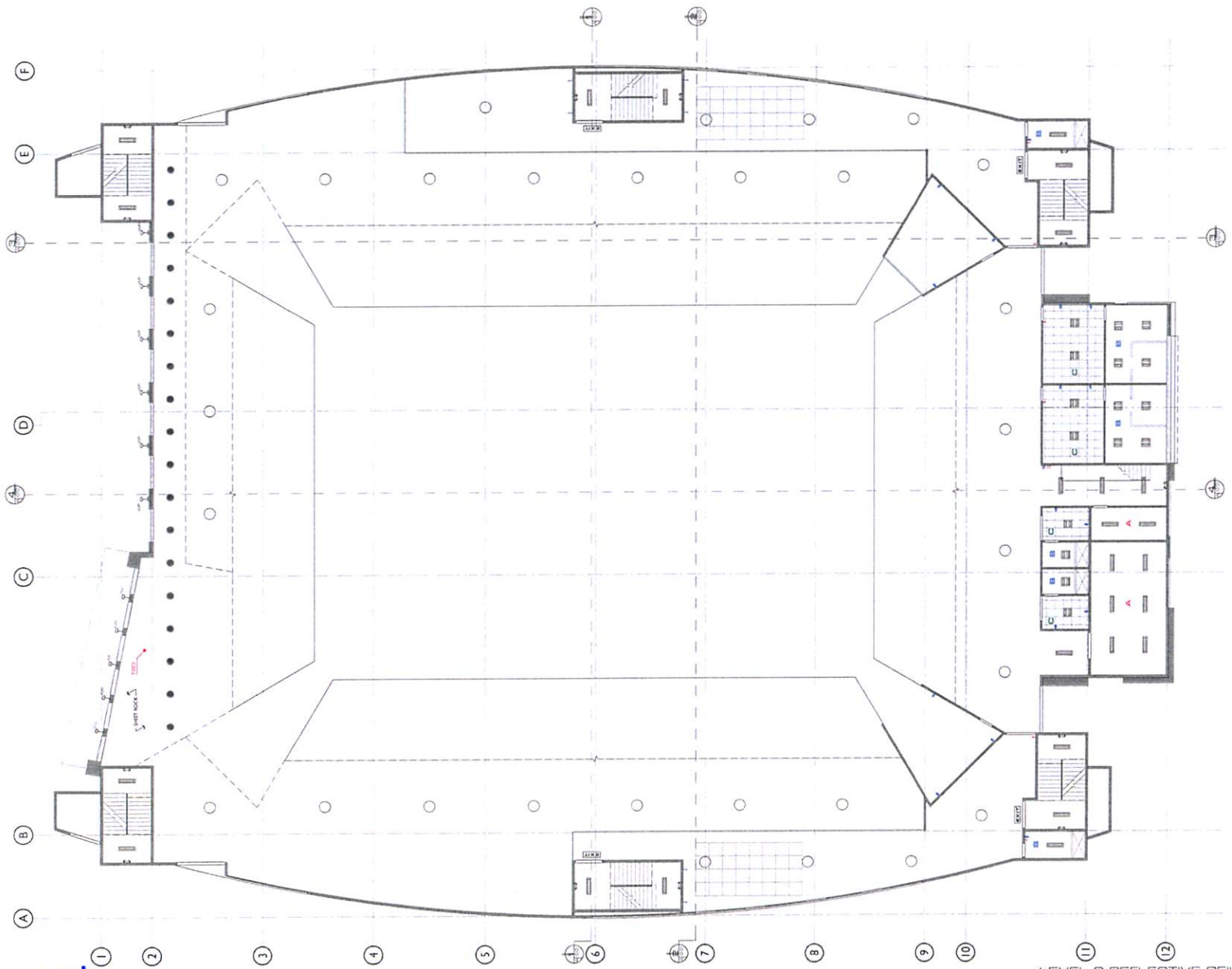

LEVEL 2 REFLECTIVE CEILING PLAN

LIGHTING LEGEND

CELING KEY NOTES

GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE REFERENCED FROM ADJACENT INTERIOR FINISH FLOOR.
2. ALL EXTERIOR SOFFITS ARE TO BE EXTERIOR FLICEM.
3. SEE POWER PLAN FOR LIGHTING LEGEND.
4. ALL LIGHTS TO BE RECESSED INTO CEILING.
5. ALL RECESSED LIGHTING TO BE FRAMED OUT PRIOR TO FINISH INSTALLATION.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01

SCALE 1/16"=1'-0"

DATE 07.AUG.2015

DRAWN MC

OWNER BL

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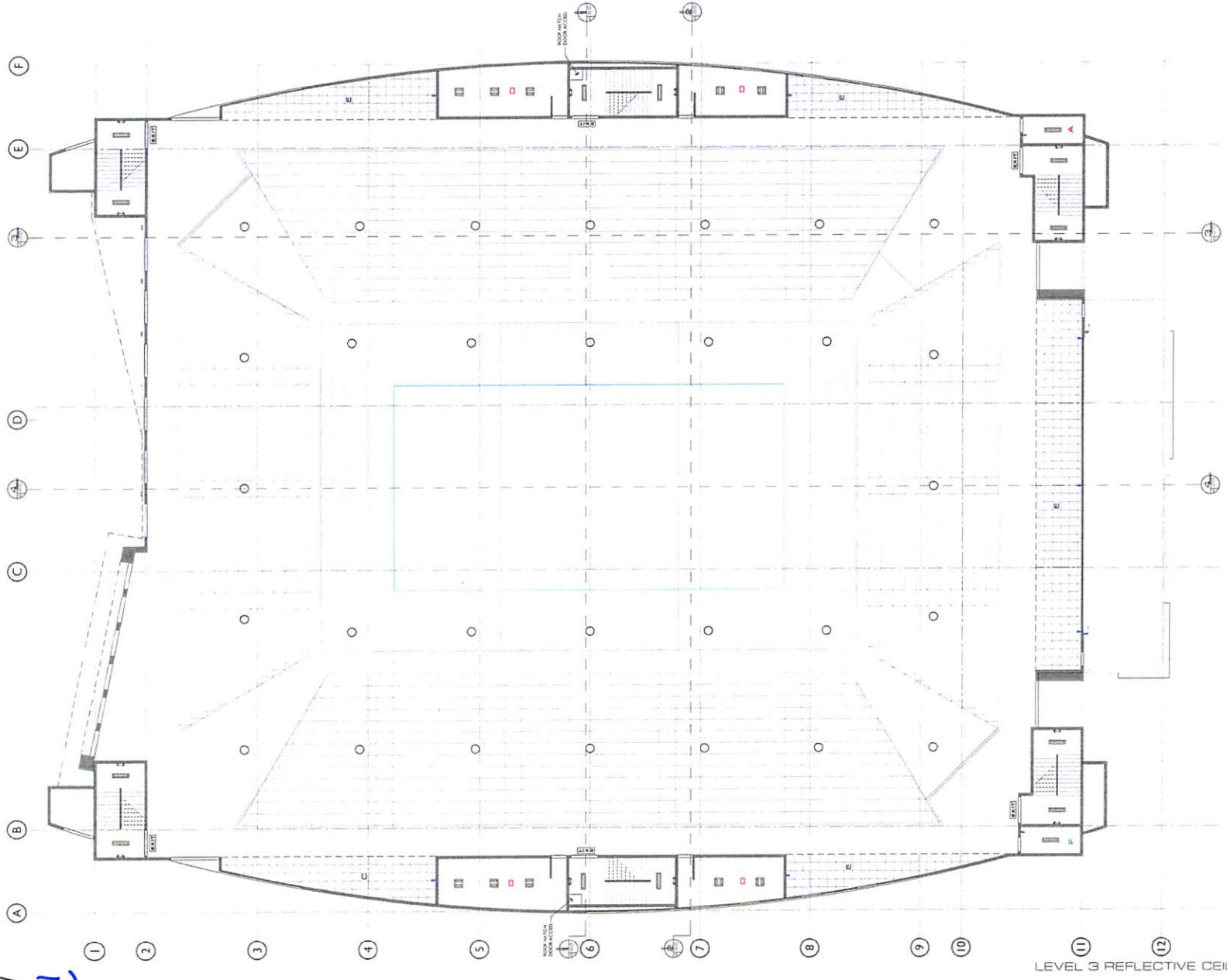

LEVEL 3 REFLECTIVE CEILING PLAN

LIGHTING LEGEND

	DESCRIPTION
	10" RECESSED DOWNLIGHT WATER PROOF
	8" RECESSED DOWNLIGHT WATER PROOF
	2'X4' RECESSED LIGHT WATER PROOF
	10" X 48" FLUORESCENT LIGHT WATER PROOF
	24" LINEAR LIGHT
	EMERGENCY LIGHT
	EXTERIOR WALL PACK LIGHT
	HIGH BAY GREEN LIGHT
EXIT	EMERGENCY EXIT LIGHT

CELING KEY NOTES

A	SHEET ROCK CEILING @ AND ABOVE FLOOR LEVEL
B	SHEET ROCK GRID - INSPIRE CEILING @ 9'-0" ABOVE FLOOR LEVEL
C	DROP CEILING @ AND ABOVE FLOOR LEVEL
D	SHEET ROCK GRID - LOWER CEILING @ 7'-10" ABOVE FLOOR LEVEL
E	DROP CEILING @ 7'-10" ABOVE FLOOR LEVEL
F	SHEET ROCK CEILING @ 7'-10" ABOVE FLOOR LEVEL

GENERAL NOTES

1. ALL CEILING HEIGHTS TO BE REFERENCED FROM ADJACENT INTERIOR FINISH FLOOR.
2. ALL EXTERIOR SOFFITS ARE TO BE EXTERIOR R.C.P.
3. SEE POWER PLAN FOR LIGHTING LEGEND.
4. ALL LIGHTS TO BE RECESSED INTO CEILING.
5. ALL RECESSED LIGHTING TO BE FRAMED OUT PRIOR TO FINISH INSTALLATION.

INTERNATIONAL ENVIRONMENTS

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT	NO. 2015-01
SCALE	1/32"=1'-0" (11"X17")
DATE	07.AUG.2015
DRAWN	MC
OWNER	BL

DESIGN DEVELOPMENT

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ARCH

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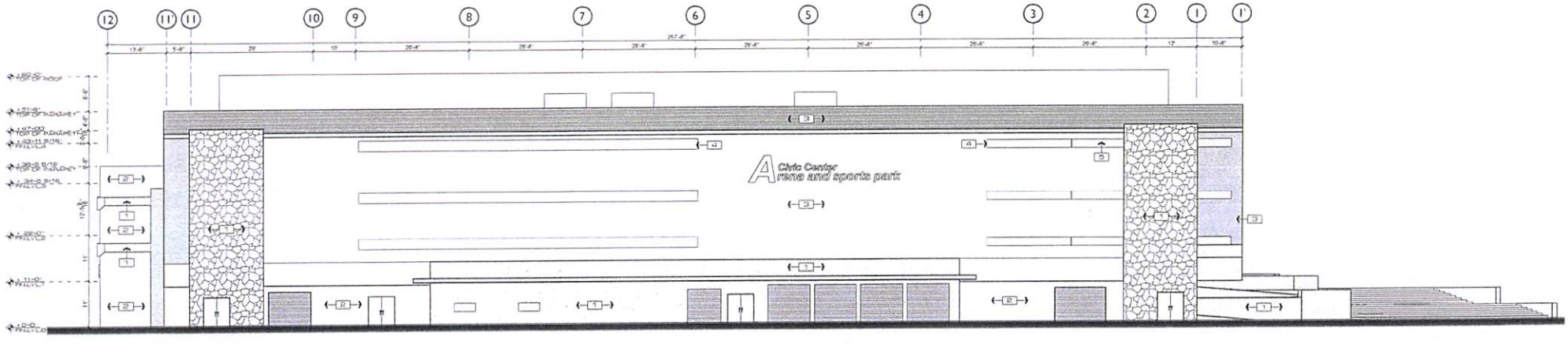
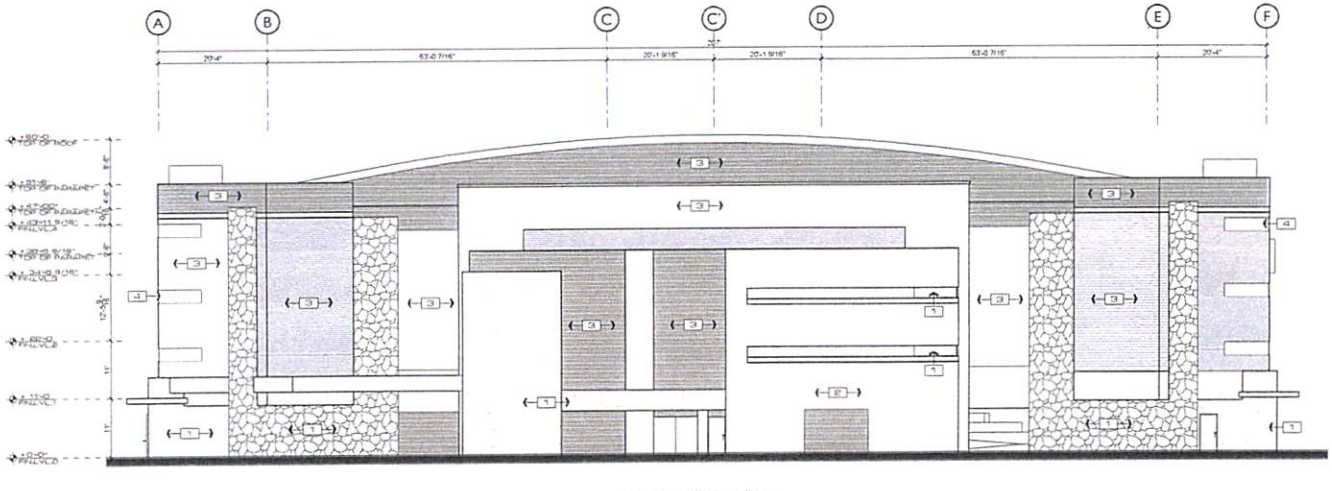


left elevation



rear elevation

KEY NOTES

1. COURSE STUCCO.
2. FINE STUCCO.
3. METAL CLADDING.
4. ALUMINUM SCREEN.
5. WINDOW.

GENERAL NOTES

1. EXTERIOR COLOR TO BE VERIFIED BY OWNER W/ ARCHITECTURAL COMMITTEE.
2. PROVIDE WEATHER FLASHING/PROOFING @ EXTERIOR WALL PENETRATIONS/OPENINGS (RT703.1, 703.2, 703.8).
3. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 201501
SCALE 1/32"=1'-0"
DATE 07.AUG.2015
DRAWN MC
OWNER BL

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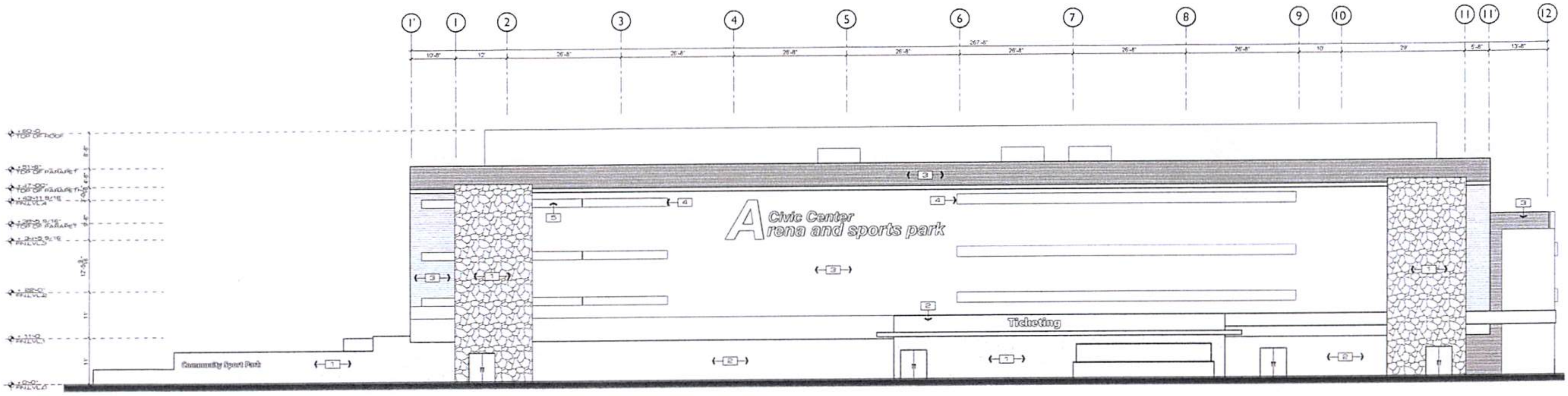
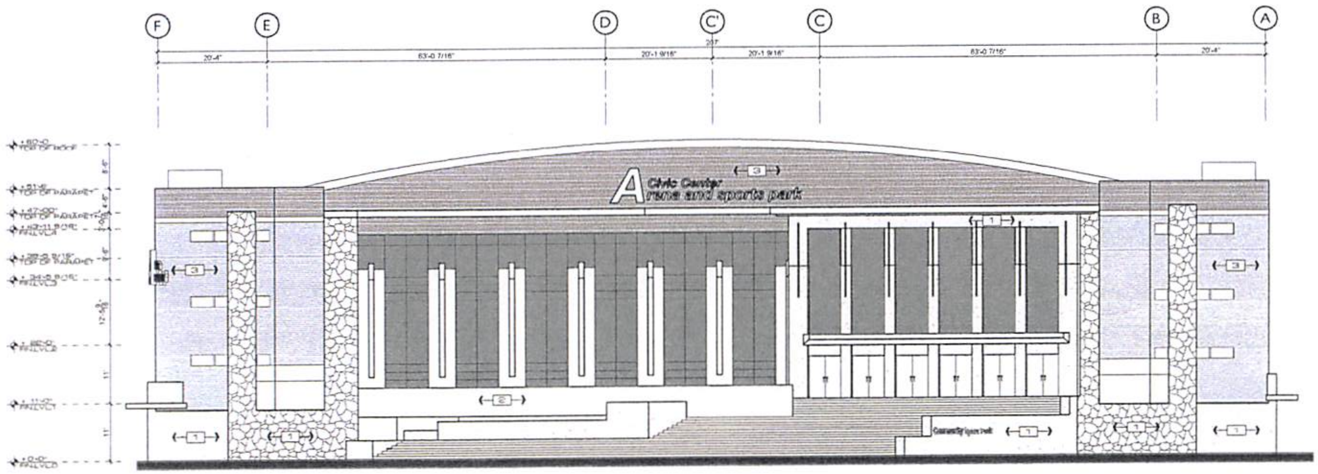


right elevation



front elevation

KEY NOTES

1. COURSE STUCCO.
2. FINE STUCCO.
3. METAL CLADDING.
4. ALUMINUM SCREEN.
5. WINDOW

GENERAL NOTES

1. EXTERIOR COLOR TO BE VERIFIED BY OWNER W/ ARCHITECTURAL COMMITTEE.
2. PROVIDE WEATHER FLASHING/PROOFING @ EXTERIOR WALL PENATRATIONS/OPENINGS (R703.1, 703.2, 703.8)
3. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.

INTERNATIONAL ENVIRONMENTS

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE
DATE 07.AUG.2015
DRAWN NC
OWNER BL

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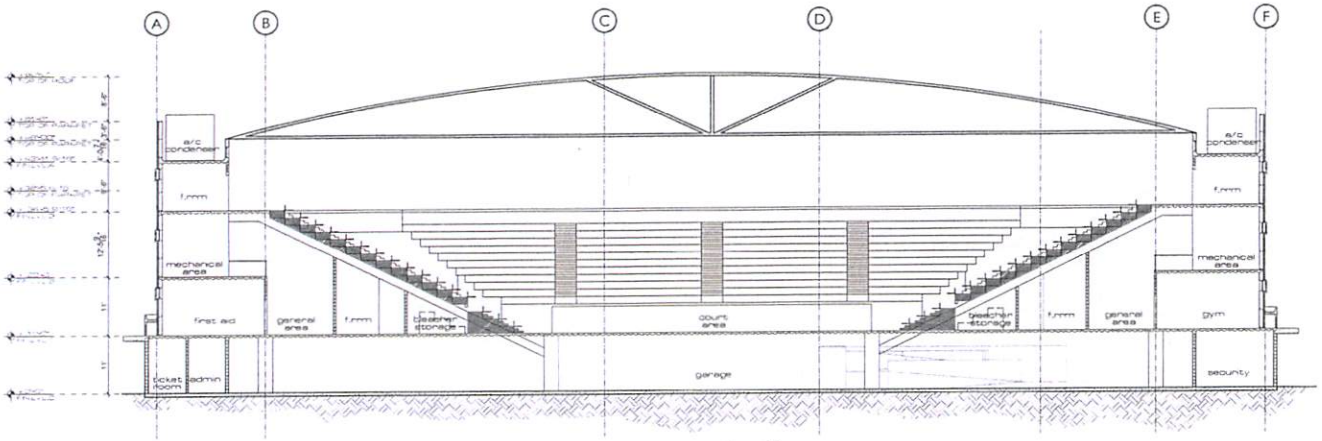

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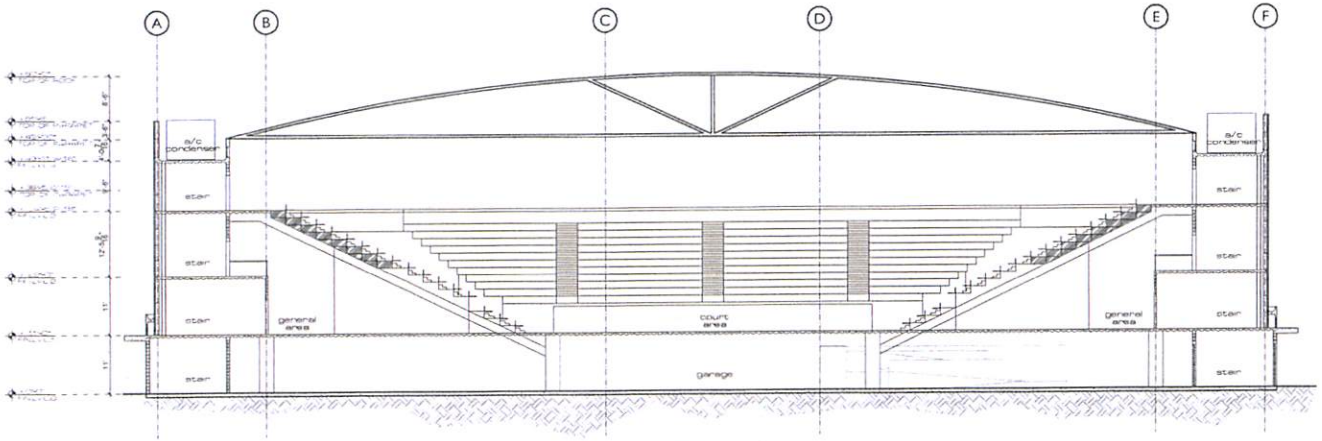

section 1

GENERAL NOTES

1. EXTERIOR COLOR TO BE VERIFIED BY OWNER W/ ARCHITECTURAL COMMITTEE.
2. PROVIDE WEATHER FLASHING-PROOFING @ EXTERIOR WALL PENETRATIONS/OPENINGS (P703.1, 703.2, 703.8).
3. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1/32"=1'-0"
DATE 07.AUG.2015
DRAWN MC
OWNER IEA

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A SECTIONS

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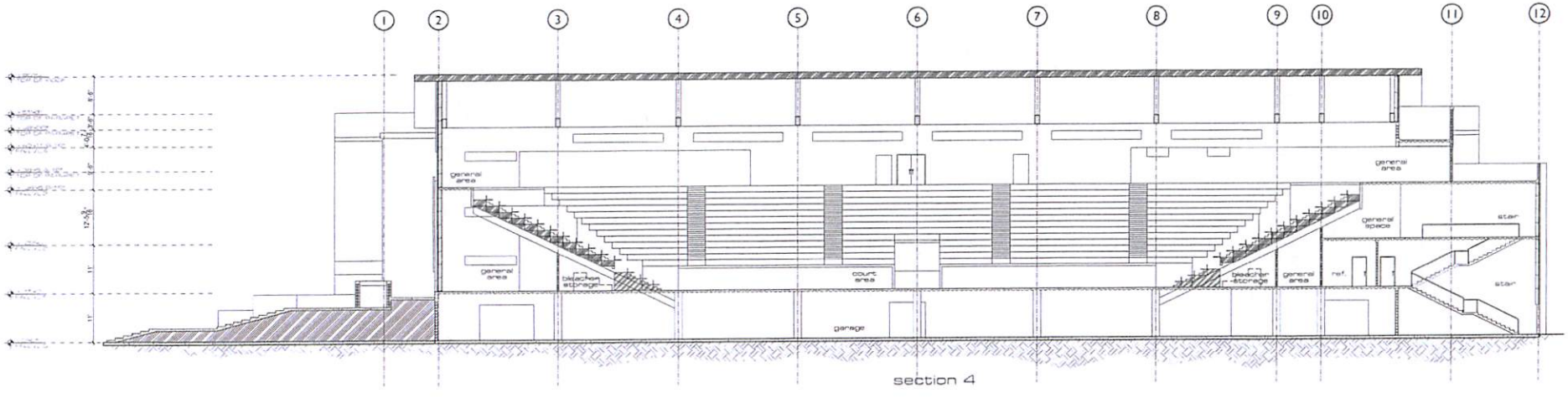

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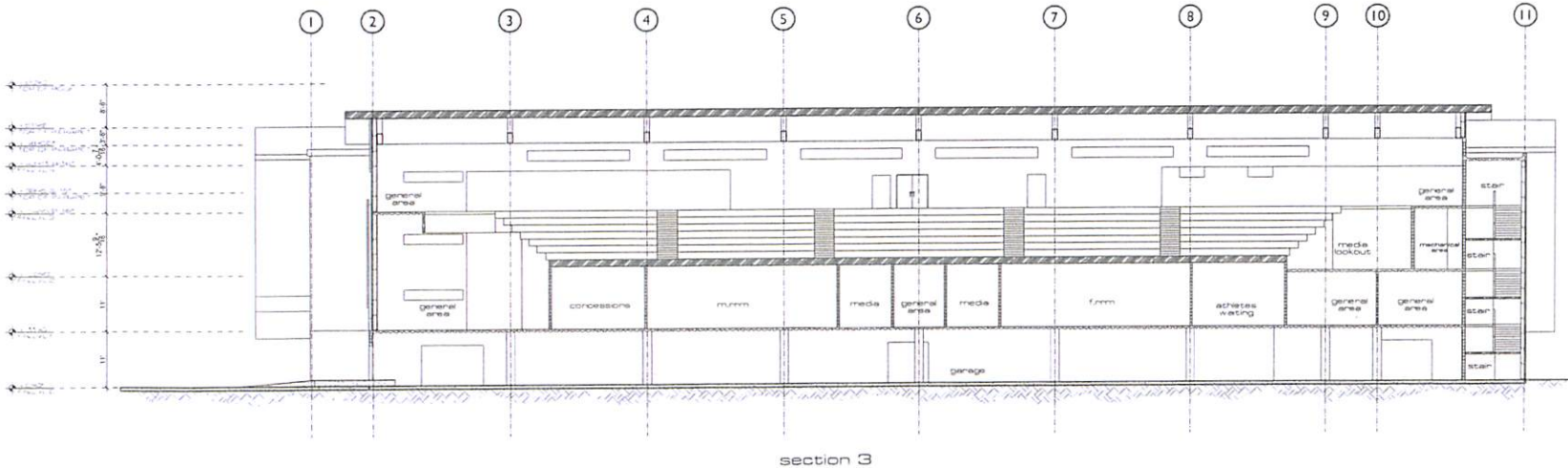

section 3

GENERAL NOTES

1. EXTERIOR COLOR TO BE VERIFIED BY OWNER W/ ARCHITECTURAL COMMITTEE.
2. PROVIDE WEATHER FLASHING/PROOFING @ EXTERIOR WALL PENETRATIONS/OPENINGS (ITEMS 703.1, 703.2, 703.3)
3. ALL STRUCTURAL DETAILS AND SPECIFICATIONS TO BE TAKEN FROM STRUCTURAL DRAWINGS.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1/32"=1'-0" (11"x17")
DATE 07.AUG.2015
DRAWN N/C
OWNER BL

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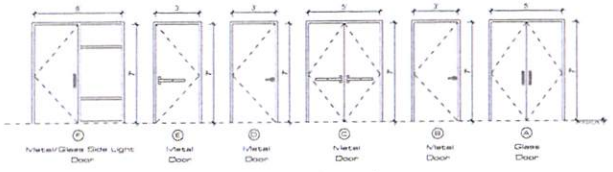
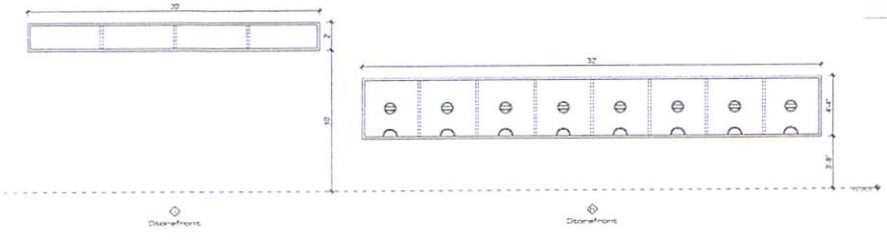
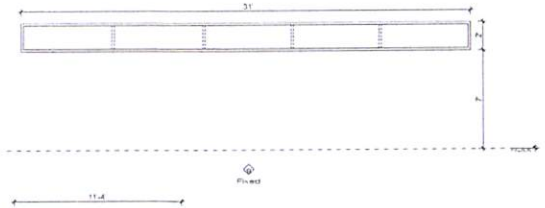
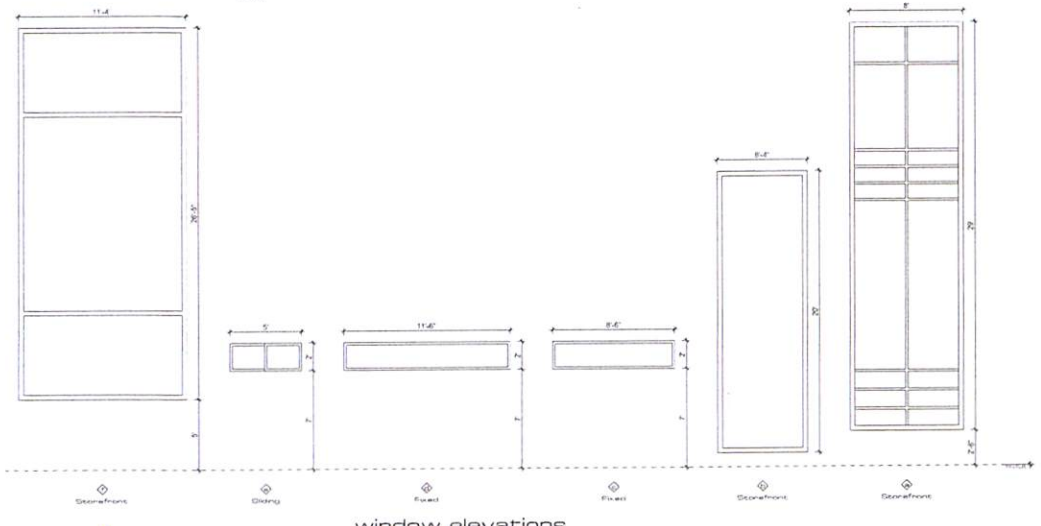


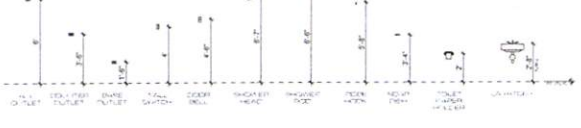
door elevations







window elevations



typical fixture elevations

DOOR, WINDOW & FINISHING SCHEDULES

GENERAL NOTES

1. ALL WINDOW DIMENSIONS SHOWN ARE NOMINAL.
2. FIELD VERIFY ALL WINDOW SIZES AND ROUGH OPENING SIZES.
3. ALL WINDOW TYPES ARE SHOWN FROM THE EXTERIOR.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE
DATE 07.AUG.2015
DRAWN HT
OWNER BL

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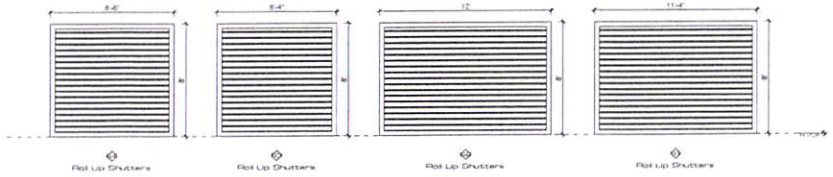


shutter elevations

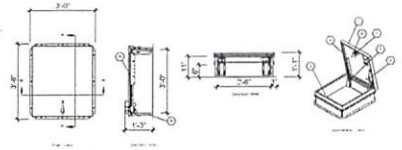
SHUTTER SCHEDULE					
S1	2	11'-4"	8'-0"	S1	ALUMINUM
S2	1	12'-0"	8'-0"	S2	ALUMINUM
S3		8'-4"	8'-0"	S1	ALUMINUM
S4	2	8'-4"	8'-0"	S1	ALUMINUM

DOOR SCHEDULE NOTES

1. IF NOT SPECIFIED, ALL FINISHES TO BE SELECTED BY OWNER/ARCHITECT
2. SUPPLIER SHALL PROVIDE ALL HARDWARE AS SPECIFIED ON SHCEDULE
3. SUPPLIER SHALL PROVIDE ALL DOOR FRAMES AND TRIMS
4. PROVIDE WEATHER STRIPPING AT ALL EXTERIOR DOORS

DOOR SWING LEGEND

D DOUBLE DOOR
DR DOUBLE DOOR REVERSE
LH LEFT HAND
LHR LEFT HAND REVERSE
RH RIGHT HAND
RHR RIGHT HAND REVERSE

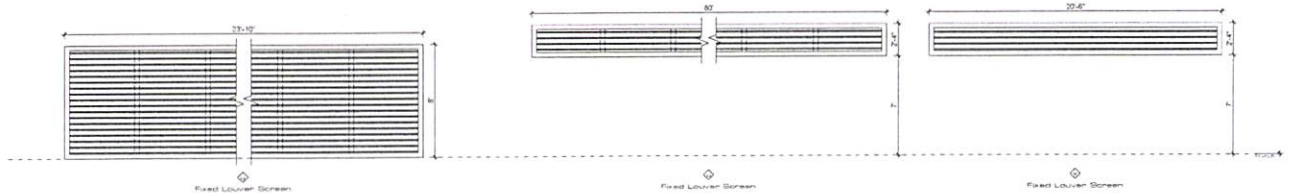


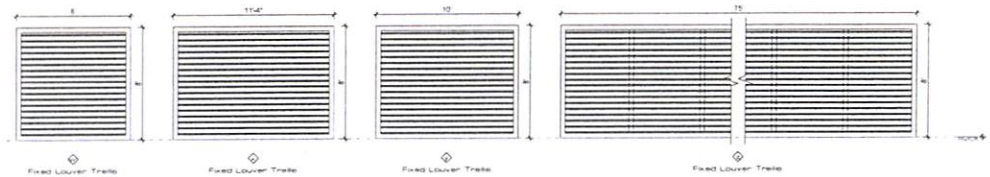
SPECIFICATIONS

1. COVER 11 GA ALUM COVER STIFFENED TO WITHSTAND A LIVE LOAD OF 40PSF WITH A MAX DEFLECTION OF 1/180 OF THE SPAN
2. LINER 18 GA ALUM
3. CURB AND COUNTERFLASH W/ EZ TAB 11 GA ALUM
4. FINISH MILL FINISH
5. SPRING/HINGE ASSEMBLY, ZINC PLATED STEEL TAMPER-PROOF HINGE CONTAINED WITHIN SPRING /HINGE ASSEMBLY. TELESCOPIC TUBES CONTAIN COIL STEEL COMPRESSION SPRINGS FOR LIFT ASSISTANCE
6. HOLD OPEN ARM: LOCKS COVER IN FULLY OPEN POSITION - ROOF HATCH SIZE 36" (WIDTH) x 30" (LENGTH) ZINC PLATED STEEL WITH RED VINYL GRIP HANDLE PULL RELEASE CLEAR OPENING 25.9" (WIDTH) x 28" (LENGTH) ROUGH OPENING 36" (WIDTH) x 30" (LENGTH)
7. LATCH: SINGLE POINT LATCH SLAM LATCH HOLDS COVER CLOSED AGAINST 20 PSF WIND UPLIFT. INTERNAL AND EXTERNAL TURN HANDLES WITH PADLOCK HASPS
8. INSULATION: 1" POLYSTYRENE (R4) IN COVER, AND 1" FIBERBOARD (R2.0) IN CURB
9. GASKET: ADHESIVE BACKED EPDM RUBBER EXTRUSION
10. SIZING: WIDTH X LENGTH DIMENSIONS ARE MEASURED INSIDE CURB TO INSIDE CURB WHERE THE WIDTH IS HINGE TO LATCH AND LENGTH IS HINGED SIDE WITH SPRINGS

Door Type
Roof Hatch
Door

Roof Hatch Details





fixed louver elevations

GENERAL NOTES

1. ALL WINDOW DIMENSIONS SHOWN ARE NOMINAL.
2. FIELD VERIFY ALL WINDOW SIZES AND ROUGH OPENING SIZES.
3. ALL WINDOW TYPES ARE SHOWN FROM THE EXTERIOR.

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 201501
SCALE (NOTED)
DATE 07.AUG.2015
DRAWN HT
CHECKED BL

DESIGN DEVELOPMENT
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- ☐ CITY SUBMITTAL
- ☐ BID PACKAGE
- ☐ CONSTRUCTION ISSUE
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DOOR, WINDOW & FINISHING SCHEDULES

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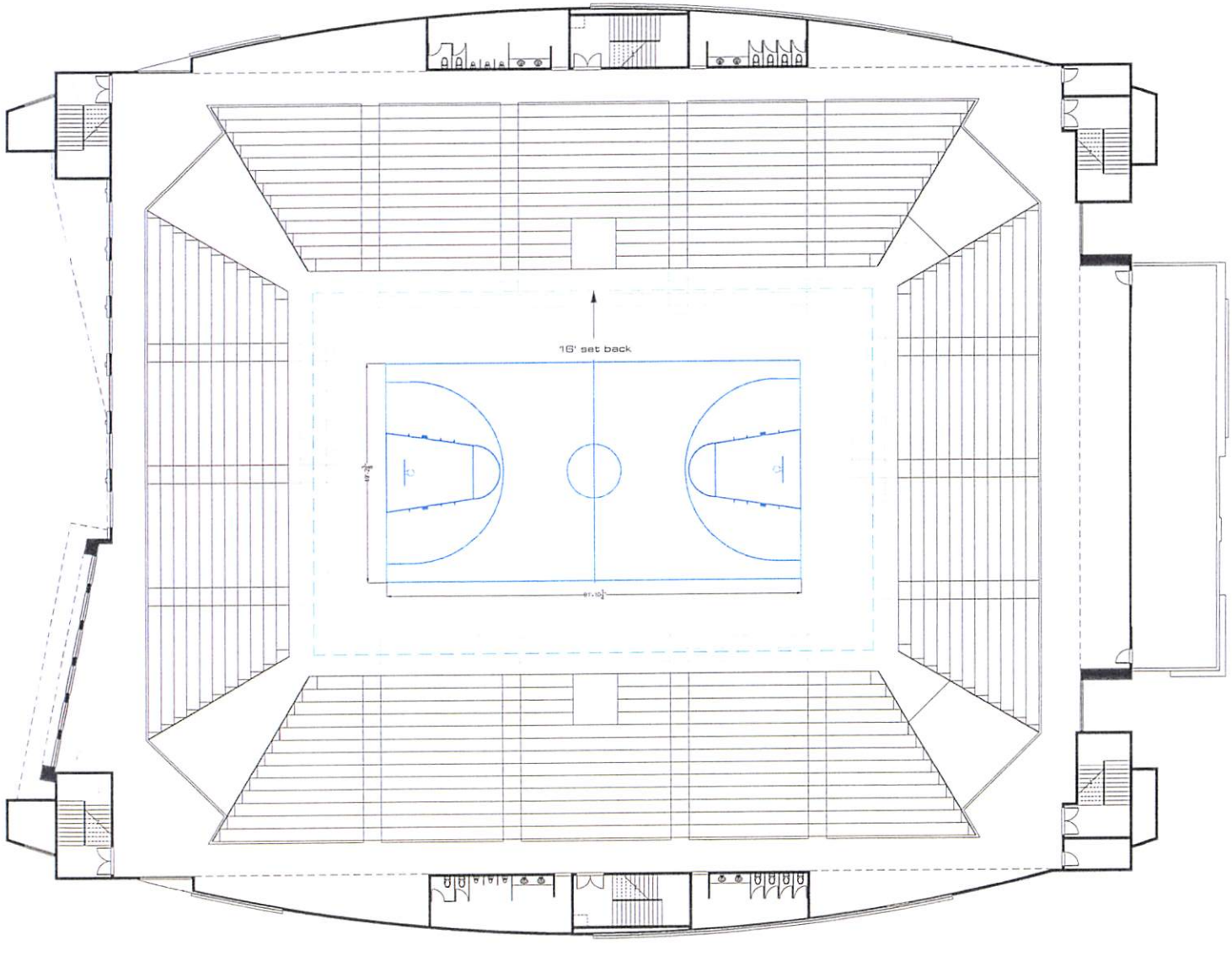

NOTES

1. TOTAL NUMBER OF SPECTATORS WITHOUT RETRACTABLE BLEACHERS = 4000

LEGEND

PERMANENT BLEACHERS
RETRACTABLE BLEACHERS
FIBA BASKETBALL COURT 91'-10" x 49'-2 3/8"

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJ. NO 2015-01
SCALE 1/32"=1'-0"
DATE 07.AUG.2015
DRAWN MF
OWNER BL

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FIBA BASKETBALL COURT LAYOUT

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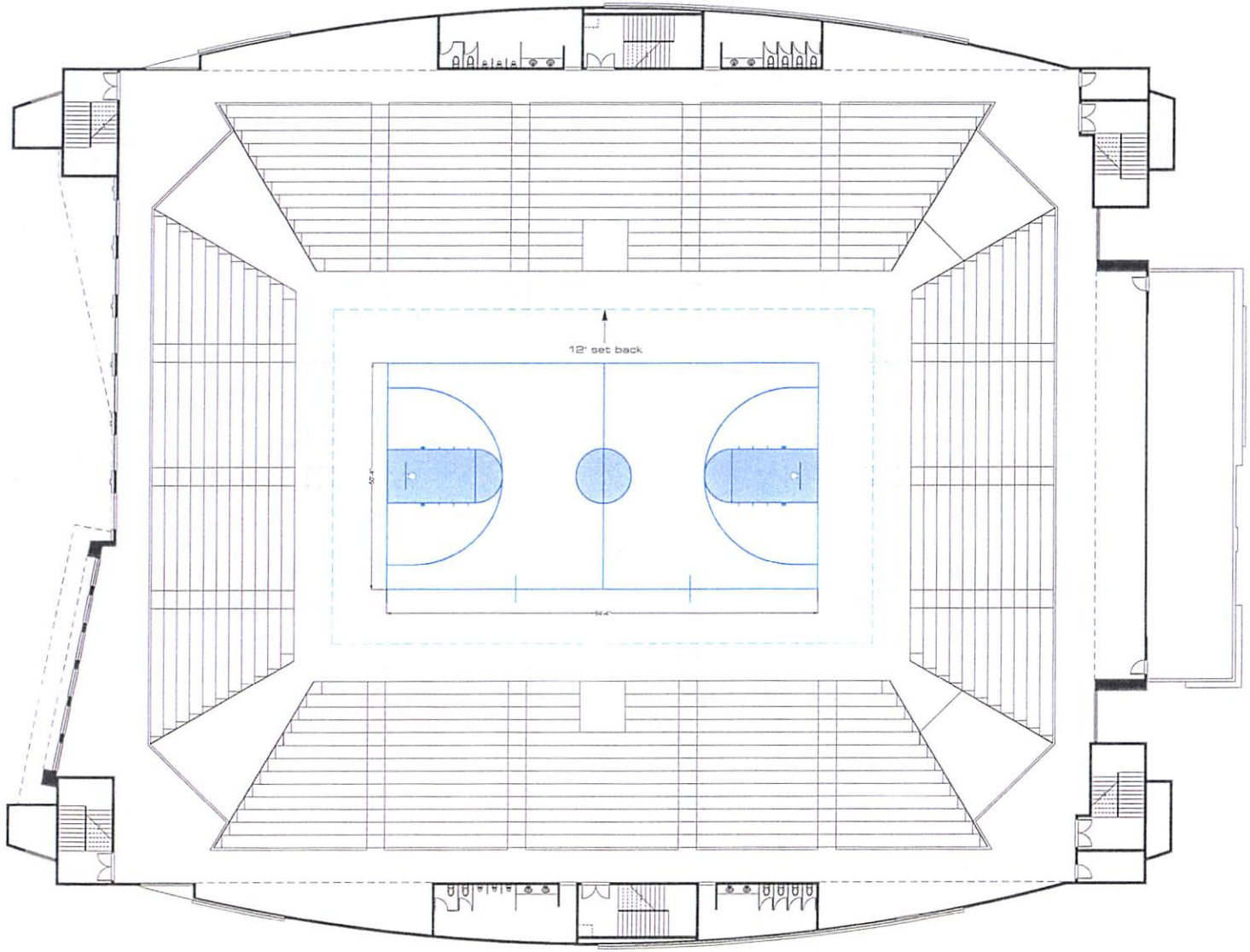

NOTES

TOTAL NUMBER OF SPECTATORS EXCLUDING RETRACTABLE BLEACHERS = 3000

LEGEND

PERMANENT BLEACHERS
RETRACTABLE BLEACHERS
NCAA BASKETBALL COURT 74' x 50'

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE
DATE 07.AUG.2015
DRAWN
OWNER

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NCAA BASKETBALL COURT LAYOUT

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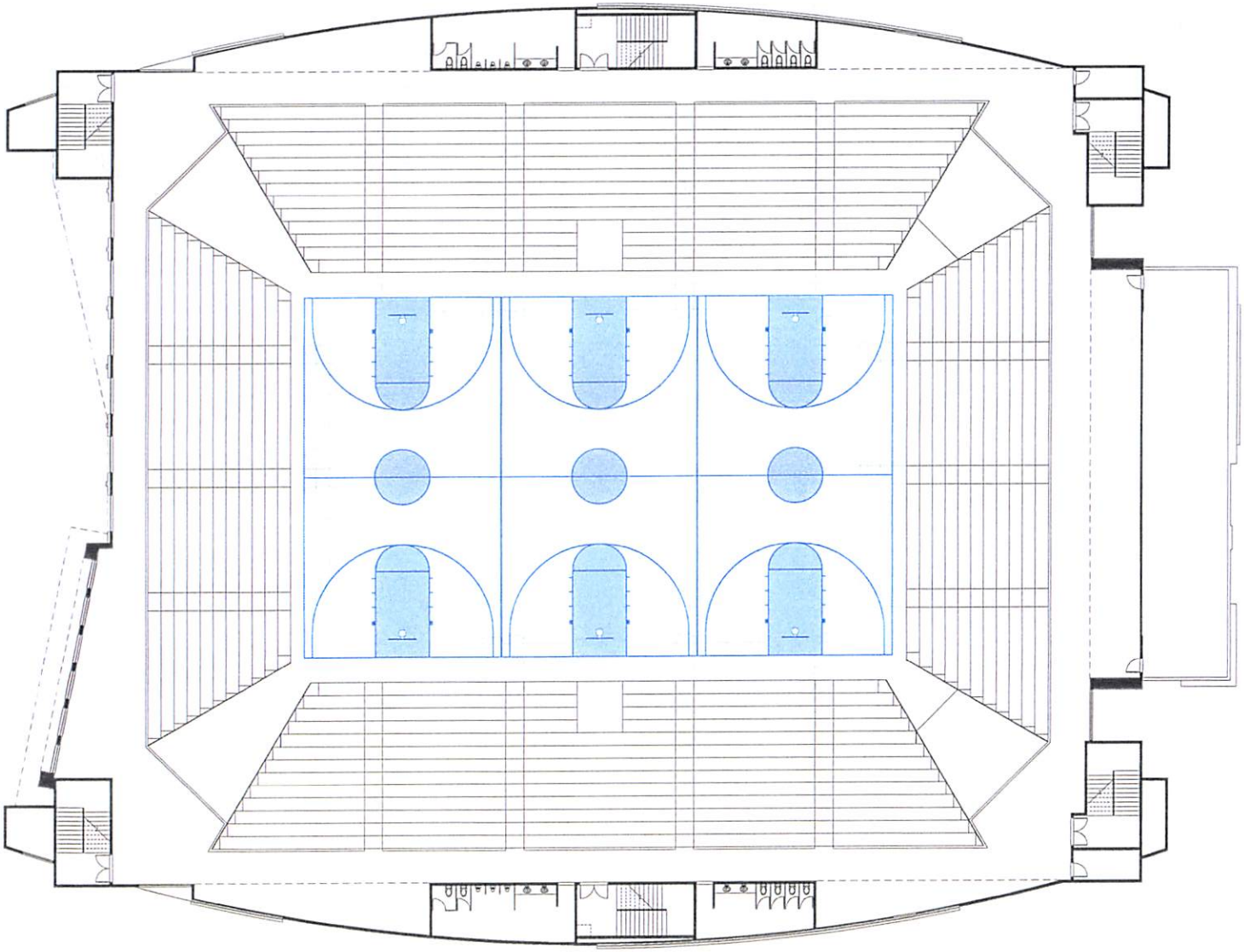

NOTES

TOTAL NUMBER OF SPECTATORS EXCLUDING RETRACTABLE BLEACHERS = 3000

LEGEND

PERMANENT BLEACHERS
RETRACTABLE BLEACHERS
PRACTICE BASKETBALL COURT 42' x 80'

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE
DATE 07.AUG.2015
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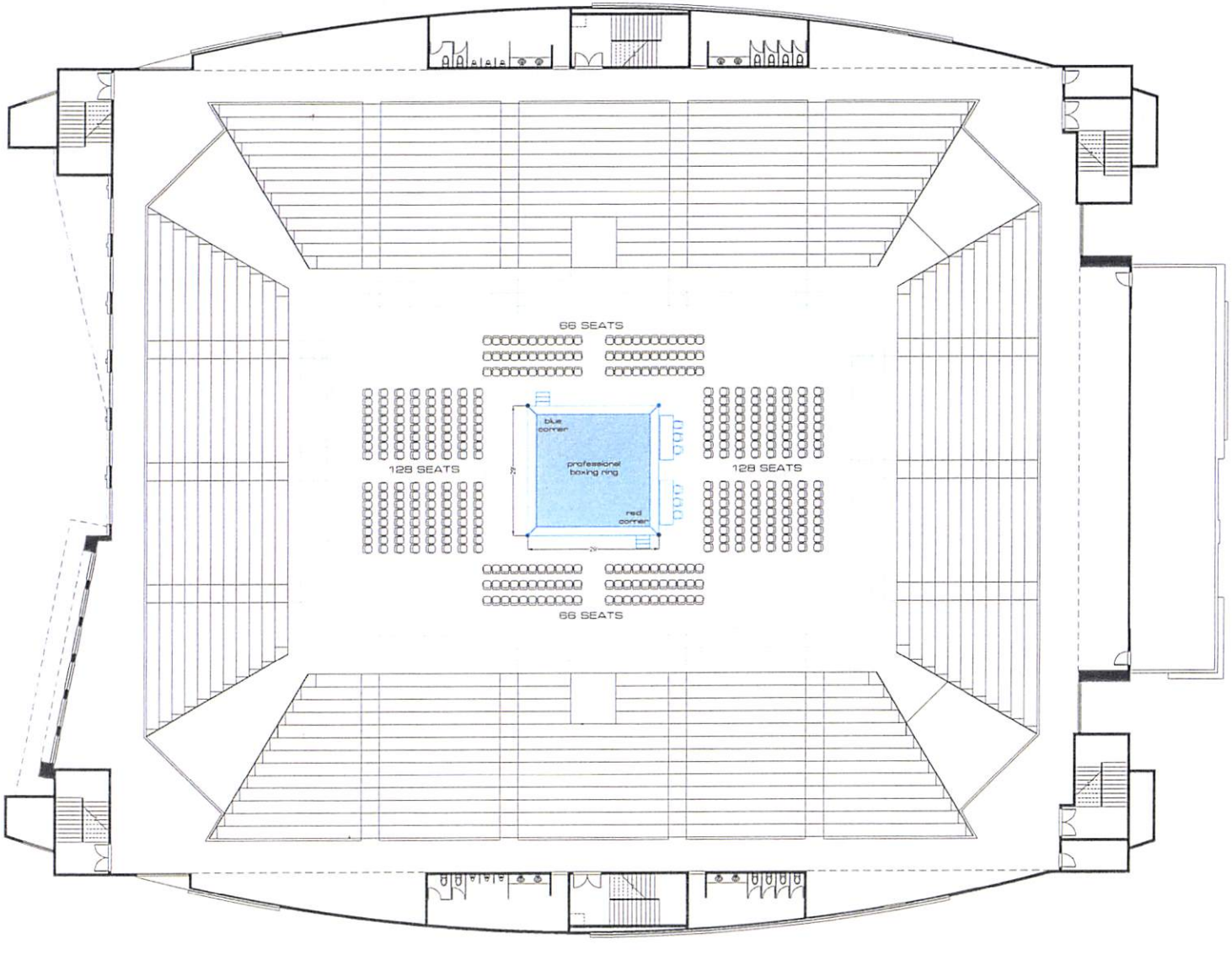
PRACTICE BASKETBALL COURT LAYOUT

9



NOTES

1. TOTAL NUMBER OF REMOVABLE SEATS = 388
2. TOTAL NUMBER OF SPECTATORS INCLUDING BLEACHERS = 4888

LEGEND

PERMANENT BLEACHERS
RETRACTABLE BLEACHERS

REMOVABLE SEATS

PROFESSIONAL BOXING RING

DESIGN DEVELOPMENT

ARCH

INTERNATIONAL ENVIRONMENTS

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 3/32"=1'-0" (XXX)
DATE 07.AUG.2015
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BOXING RING LAYOUT

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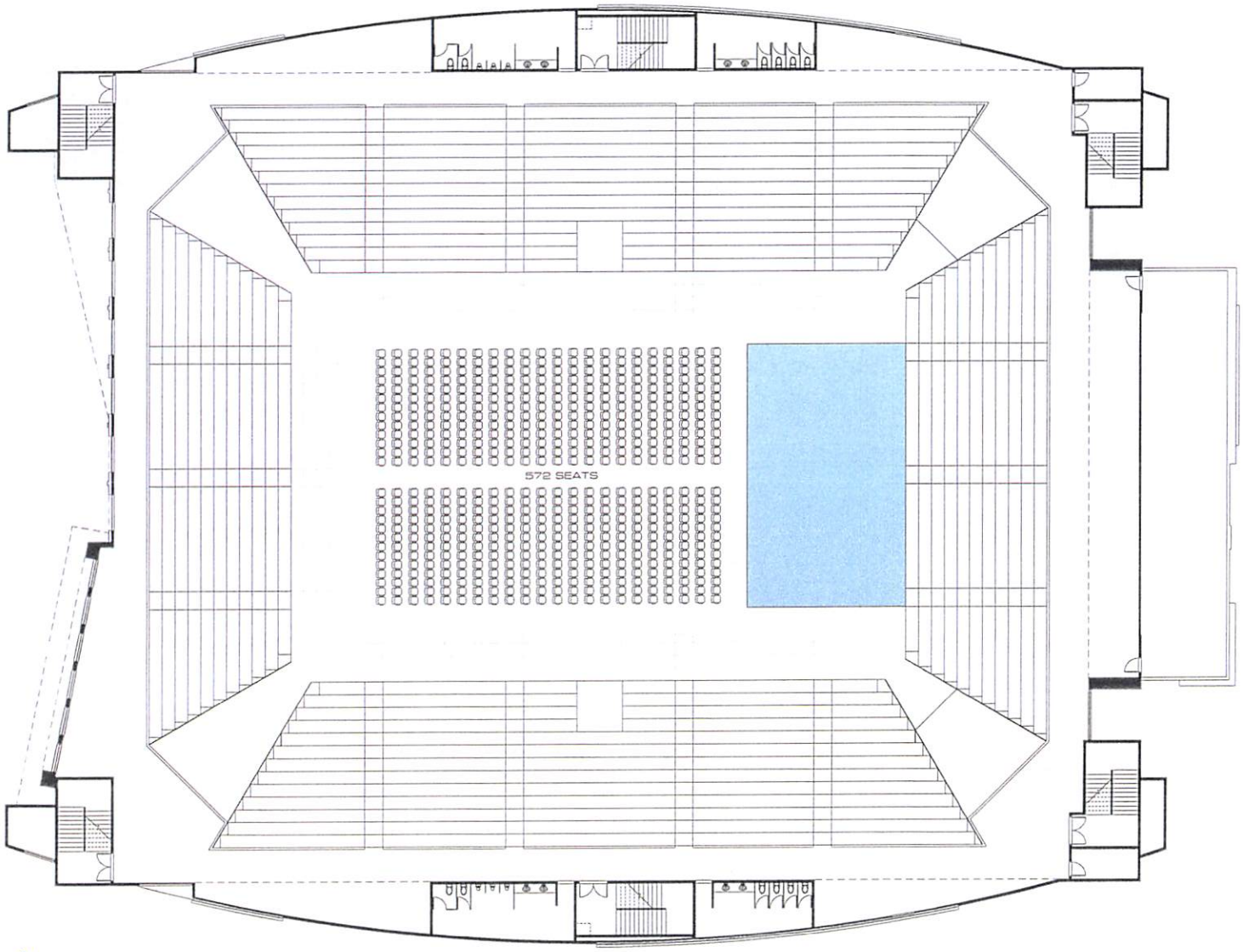

NOTES

1. REMOVABLE STAGE AREA DIMENSIONS 35' x 55'
2. REMOVABLE SEATS FOR 572 SPECTATORS
3. TOTAL NUMBER OF SPECTATORS INCLUDING BLEACHERS = 4512

LEGEND

- PERMANENT BLEACHERS
- RETRACTABLE BLEACHERS
- REMOVABLE SEATS
- REMOVABLE STAGE

CONCERT/EVENTS REMOVABLE SEATING LAYOUT

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PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO.	2015-01
SCALE	1/16"=1'-0" (11"x17")
DATE	07.AUG.2015
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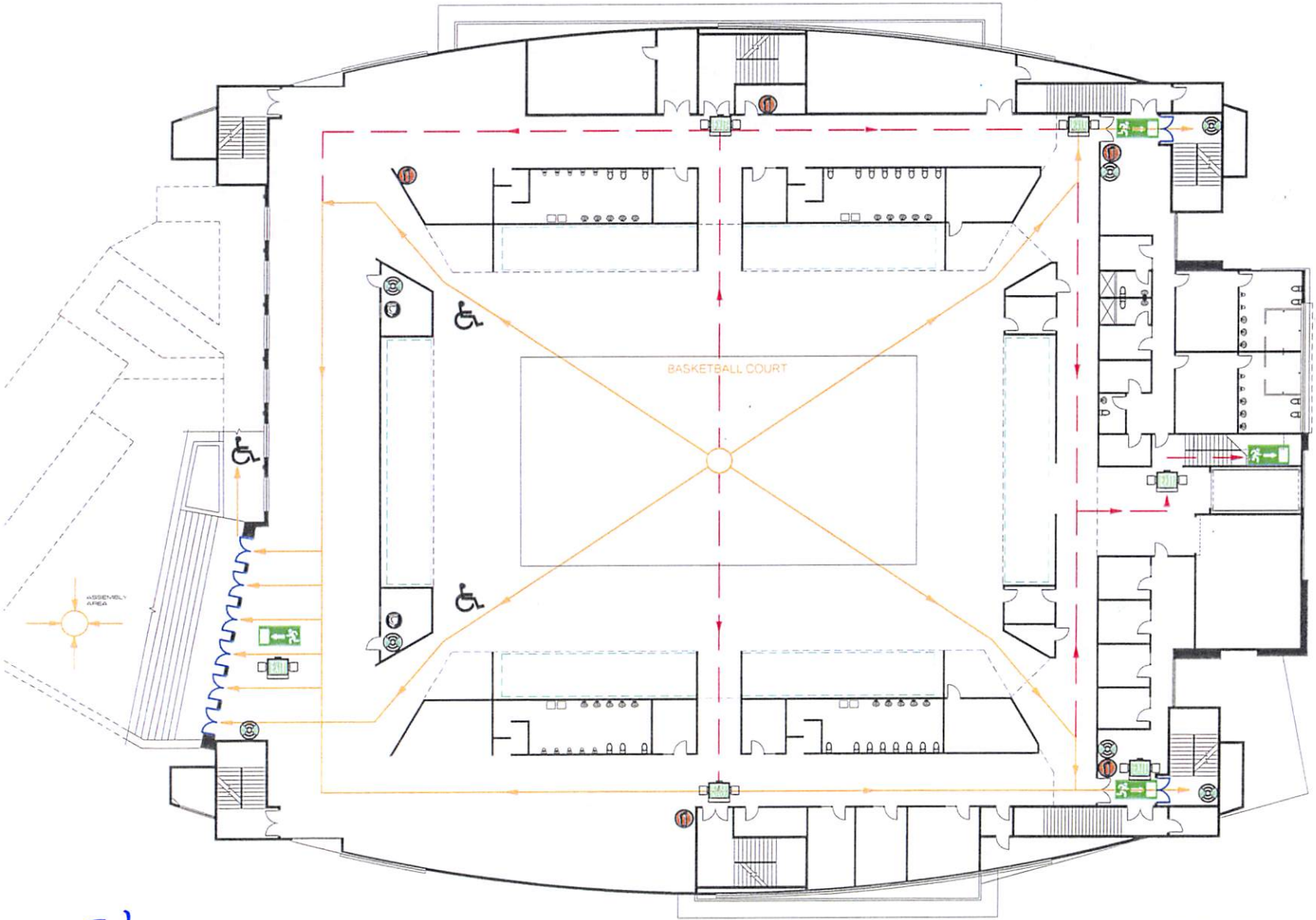

LEVEL 1 PROPOSED FIRE ESCAPE ROUTE

SYMBOLS

- PRIMARY ESCAPE ROUTE
- SECONDARY ESCAPE ROUTE
- PULL TYPE FIRE ALARM
- FIRE EXTINGUISHER
- POLICE/ SECURITY
- FIRE EXIT
- HANDICAP EXIT ROUTE
- EXIT SIGN ABOVE DOORS WITH DOUBLE HEAD EMERGENCY LIGHTS
- M — EACH FIRE EXIT DOOR EVACUATES 85 PEOPLE PER MINUTE
  TOTAL NUMBER OF EVACUATED PEOPLE PER MINUTE ON LEVEL 1 = 824

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

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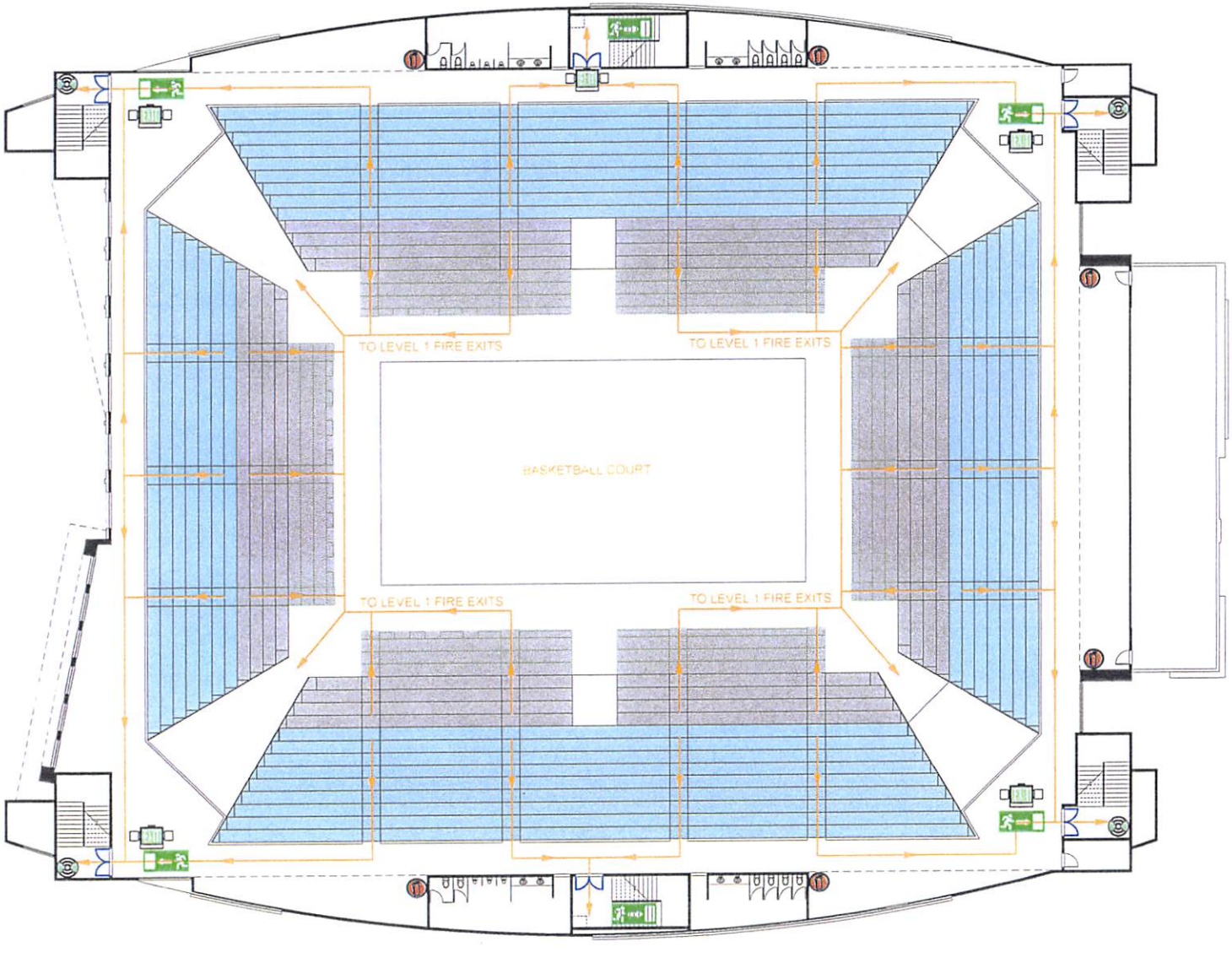

SYMBOLS

- PRIMARY ESCAPE ROUTE
- SECONDARY ESCAPE ROUTE
- PULL TYPE FIRE ALARM
- FIRE EXTINGUISHER
- POLICE/ SECURITY
- FIRE EXIT
- HANDICAP EXIT ROUTE
- EXIT SIGN ABOVE DOORS WITH DOUBLE HEAD EMERGENCY LIGHTS
- PERSONS EXIT THROUGH EXITS ON LEVEL 3
- PERSONS EXIT THROUGH EXITS ON LEVEL 1
- EACH FIRE EXIT DOOR EVACUATES 98 PEOPLE PER MINUTE
- TOTAL NUMBER OF EVACUATED PEOPLE PER MINUTE ON LEVEL 3 = 576

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

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SCALE 1/64"-1'-0"
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BLEACHER FIRE ESCAPE ROUTE

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STRUCTURAL GENERAL NOTES

GENERAL NOTES

- THE DESIGNERS OF RECORD MUST BE IMMEDIATELY MADE AWARE IN WRITING OF ANY OMISSIONS, DISCREPANCIES, ERRORS AND/OR AMBIGUITIES FOUND OR SUSPECTED.
- SPECIFIC NOTES AND DETAILS CONTAINED IN THESE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND DRAWINGS.
- THE CONSTRUCTION AND DESIGN ADEQUACY AND SAFETY OF BRACING, SHORING, AND OTHER TEMPORARY STRUCTURES, INCLUDING THOSE OF SUB-CONTRACTORS, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE GENERAL CONTRACTOR (GC) IS RESPONSIBLE TO MAINTAIN THE STABILITY OF THESE STRUCTURES.
- REFER TO PROJECT SPECIFICATIONS FOR FURTHER DETAILS ON MATERIALS, PRODUCTS AND PERFORMANCE REQUIREMENTS.
- CHECKING, CERTIFICATION OR ACCEPTANCE OF THE WORKS OR ANY PART OF THE WORKS BY THE EMPLOYER DOES NOT RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO MEET THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.
- THE GC SHALL CHECK WORKS IN ADVANCE AND SHALL BE RESPONSIBLE TO NOTIFY THE EMPLOYER OF ALL CASES OF AMBIGUITIES AND CONFLICTS BEFORE RELEVANT WORK EXECUTED.
- THE GC SHALL PROVIDE SAFE AND SECURE LADDERS WITH RAILS TO ACCESS ALL ELEVATED AND EXCAVATED AREAS TO BE INSPECTED.
- THE GC SHALL PROVIDE A SITE SUPERVISOR OR SITE SUPERVISION TEAM SUITABLY QUALIFIED TO INTERPRET THE DRAWINGS AS WELL AS TO UNDERSTAND THE GENERAL DESIGN INTENT OF THE PROJECT.
- THE GC SHALL ENSURE THAT ALL PEOPLE ON SITE SHALL HAVE SUITABLE ATTIRE AND SAFETY EQUIPMENT INCLUDING HARD HATS.

REINFORCEMENT

- ALL REINFORCEMENT SHALL BE DEFORMED AND CONFORMED TO A.S.T.M. A-615, GRADE 60, EXCEPT 1-1/4" DIAMETER BARS.
- COPIES OF RELEVANT MILL CERTIFICATES SHALL BE SUPPLIED TO THE EMPLOYER FOR EVERY BATCH OF REINFORCEMENT DELIVERED TO THE SITE.
- THE EMPLOYER MAY VERIFY THE VALIDITY OF SUCH CERTIFICATES. THE SUBMITTAL OF NON-VALID CERTIFICATES SHALL BE GROUNDS FOR THE EMPLOYER TO ORDER THE REMOVAL OF ALL SUCH REBAR FROM THE SITE AT THE CONTRACTOR'S COST.
- ALL REINFORCING STEEL SHALL BE TIED, SUSPENDED AND SUPPORTED IN SUCH A MANNER AS TO ENSURE THAT THEY MAINTAIN THEIR PROPER LOCATION DURING THE PLACING OF CONCRETE. REINFORCING STEEL SHALL BE SUPPORTED ON APPROVED METAL CHAIRS, CONCRETE SPACER BLOCKS OR BY SUSPENDING THEM FROM ABOVE WITH ADEQUATE TIES DURING PLACEMENT OF CONCRETE.
- THE MINIMUM SPLICE LENGTH FOR ALL REINFORCEMENT SHALL BE TAKEN AS 40X THE BAR DIAMETER FOR 3/8" DIAMETER (NO.3) AND SMALL BARS, AND 50X THE BAR DIAMETER FOR LARGER BARS BUT NOT LESS THAN 16" UNLESS OTHERWISE NOTED.
- WHERE HORIZONTAL REINFORCEMENT IS SO PLACED THAT MORE THAN 12" OF FRESH CONCRETE IS CAST BELOW THE BAR BEING DEVELOPED, INCREASE SPLICE LENGTH (DEVELOPMENT LENGTH INDICATED ABOVE) BY 33% IF THE CLEAR COVER IS LESS THAN THE BAR DIAMETER OR IF THE CLEAR SPACING IS LESS THAN 2X THE BAR DIAMETER, INCREASE THE DEVELOPMENT LENGTH BY 50%.
- THE SPLICE LENGTH OF BUNDLE BARS SHALL BE INDICATED ABOVE WITH AN INCREASE OF 20% FOR A 3 BAR BUNDLE AND 33% FOR A 4 BAR BUNDLE. SPLICES IN BUNDLES SHALL BE STAGGERED.
- THE INSIDE DIAMETER OF BENDS SHALL NOT BE LESS THAN 6X THE DIAMETER FOR 3/4" (NO.6) AND SMALLER BARS AND 8X THE DIAMETER FOR LARGER BARS. BENDING EQUIPMENT SHALL BE SET-UP TO FACILITATE THESE REQUIRED RADIUSES.
- FOR EVERY VERTICAL BAR INTERRUPTED BY AN OPENING OR OTHERWISE CUT, AN ADDITIONAL BAR SHALL BE PLACED ADJACENT TO THE OPENING OR CUT WITH SUITABLE DEVELOPMENT SPLICE LENGTHS AS DESCRIBED ABOVE.
- WHERE NOT SHOWN, DISTRIBUTION BARS IN ALL CONCRETE ELEMENTS SHALL BE AT LEAST 2" TO 8" O.W.
- BUNDLE BAR ARRANGEMENTS SHALL BE TYPE A UNLESS OTHERWISE STATED AN APPROVED.

CONCRETE (GENERAL)

- ALL EXCAVATION TO RECEIVE CONCRETE SHALL BE COMPLETELY FREE OF ANY LOOSE DIRT AND DEBRIS PRIOR TO THE PLACEMENT OF ANY CONCRETE OR REINFORCEMENT.
- ON EVERY SITE THERE SHALL BE VIBRATORS FOR USE BY QUALIFIED OPERATORS DURING THE PLACEMENT OF ALL CONCRETE. CONCRETE POURED WITHOUT THE USE OF VIBRATORS OPERATED BY EXPERIENCE PERSONNEL WILL BE GROUNDS TO REJECT SUCH CONCRETE.
- BACK UP VIBRATORS SHALL BE KEPT ON SITE DURING ALL CONCRETE OPERATIONS.
- IF THE CONTRACTOR PLANS TO POUR STRUCTURAL CONCRETE ELEMENTS IN PHASES, HE MUST SUBMIT A PLAN OF THE PHASES TO THE ENGINEER FOR NOTIFICATIONS PRIOR TO STARTING. INCLUDED SHALL BE DETAILS OF THE METHOD OF MAKING THE CONSTRUCTION JOINTS BETWEEN THE PHASES.
- CONCRETE WITH A MINIMUM STRENGTH OF 2500 PSI SHALL BE PROVIDED FOR MISCELLANEOUS ITEMS INCLUDING UNMARKED CONCRETE UNTILS, WINDOWS SILLS, UNMARKED CAP BEAMS, AND OTHER MISCELLANEOUS ITEMS AS INDICATED ON THE DRAWINGS. ALL OTHER CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 3000 PSI.
- CONCRETE FINISHING SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
- REFER TO MECHANICAL, ELECTRICAL, ARCHITECTURAL DRAWINGS FOR LOCATION OF PIPES, CONDUITS AND SIMILAR ITEMS. THESE SHALL BE PROVIDED WITH COVER REQUIREMENTS AS INDICATED ON THE STRUCTURAL DRAWINGS.
- CONCRETE MIX DESIGNS FOR ALL CLASSES OF CONCRETE SHALL BE PROVIDED BY THE CONTRACTOR TO THE CONSULTANT(S) AND APPROVED PRIOR TO USE OF SUCH MIX.
- MIX DESIGNS SHALL MEET THE REQUIRED STRENGTH AS DESCRIBED ABOVE AND SHALL BE SUBMITTED WITH RELEVANT TEST RESULTS DEMONSTRATING THAT THE REQUIRED STRENGTH LEVELS ARE MET.
- 36 HOURS WRITTEN NOTICE FOR INSPECTION SHALL BE GIVEN TO THE PROJECT ENGINEER BY THE CONTRACTOR BEFORE ANY POUR IS MADE. ALL WORK TO BE INSPECTED SHALL BE UNCOVERED BY THE CONTRACTOR FOR INSPECTION BY PROJECT ENGINEER AND SHALL BE COMPLETED PRIOR TO INSPECTION AND CONCRETE POUR.
- CONCRETE POUR SHALL BE DONE ON THE DAY AFTER WRITTEN APPROVAL IS GIVEN UNLESS OTHERWISE AGREED WITH THE CONSULTANT. AT THE TIME OF INSPECTION, ALL REQUIRED WORKS SHALL BE COMPLETED AND READY TO RECEIVE CONCRETE.
- ALL CONCRETE AGGREGATES SHALL CONFIRM TO ASTM C33. AGGREGATES WHICH DO NOT CONFORM TO THIS STANDARD ARE PERMITTED IF THEY HAVE BEEN SHOWN BY TEST OR ACTUAL SERVICE TO PRODUCE CONCRETE OF ADEQUATE STRENGTH AND DURABILITY, AND ARE APPROVED BY THE GC. THE NOMINAL SIZE OF AGGREGATES USED SHALL NOT EXCEED 1/5 OF THE NARROWEST DIMENSION BETWEEN THE FORM, 1/3 THE DEPTH OF SLABS OR 3/4 THE MINIMUM CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS WITHIN MEMBERS, IN NO CASE SHALL THE LARGEST SIZE EXCEED 1 1/4".
- WATER USED IN MIXING CONCRETE SHALL CONFIRM TO ASTM C1602, OR IN OTHER WORDS, IT SHALL BE CLEAN, POTABLE AND FREE FROM INJURIOUS AMOUNTS OF SOILS, ACIDS, ALKALIS, SALTS, ORGANIC MATERIAL AND OTHER SUBSTANCES DELETERIOUS TO CONCRETE OR REINFORCEMENT.
- THE CONTRACTOR SHALL ALLOW IN HIS RATES TO PREPARE, CURE AND TEST ALL CONCRETE SAMPLES AT THE NOMINATED LAB.
- THE REQUIREMENTS FOR f'c SHALL BE BASED ON CYLINDERS MADE AND TESTED AS PRESCRIBED IN ACI 318-14 SECTION 19.2.1 AS DESCRIBED BELOW.

STRUCTURAL REQUIREMENTS FOR CONCRETE

f'cr - REQUIRED AVERAGE COMPRESSIVE STRENGTH OF CONCRETE (PSI)

f'c - SPECIFIED 28 DAYS COMPRESSIVE STRENGTH OF CONCRETE (PSI, TARGET STRENGTH)

- ALL CONCRETE THAT DOES NOT MEET OR EXCEED THE REQUIRED CRITERIA AS INDICATED BELOW SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED WITH CONCRETE WHICH CONFORMS. AT PROJECT ENGINEERS REQUEST EXPENSE.
- UNLESS OTHERWISE APPROVED, ALL CEMENT SHALL CONFORM TO ASTM C150 TYPE 1.
- ALL CONCRETE SHALL BE MIXED WITH A MECHANICAL MIXER AND DELIVERED IN ACCORDANCE WITH ASTM C94 OR ASTM C685.
- BEFORE THE PLACEMENT OF CONCRETE, THE CONTRACTOR SHALL VERIFY THE PROPER PLACEMENT OF ALL ITEMS OF WORK WHICH ARE TO BE EMBEDDED IN THE CONCRETE.
- CONCRETE SHALL BE MAINTAINED AT A TEMPERATURE OF AT LEAST 50° F AND IN A MOIST CONDITION FOR AT LEAST THE FIRST 7 DAYS AFTER PLACEMENT. DETAILED RECOMMENDATIONS FOR CURING CONCRETE ARE GIVEN IN ACI 308R.
- ALL CONCRETE WORKS SHALL BE IN ACCORDANCE WITH ACI 318 AND ACI 347.

ACCEPTANCE OF CONCRETE

- CONCRETE SHALL BE PROPORTIONED TO PROVIDE AT LEAST AN AVERAGE REQUIRED COMPRESSIVE STRENGTH (f'cr) GREATER THAN PRESCRIBED IN ACI 318-14 19.2.1 FOR f'c, AS INDICATED BELOW.
- DOCUMENTATION SHALL BE PROVIDED TO THE EMPLOYER TO DEMONSTRATE THAT THE PROPOSED CONCRETE PROPORTIONS WILL PRODUCE AN AVERAGE COMPRESSIVE STRENGTH GREATER THAN OR EQUAL TO THE REQUIRED AVERAGE COMPRESSIVE STRENGTH (f'cr). THIS SHALL CONSIST OF FIELD STRENGTH TEST RECORDS OR RESULTS FROM TRIAL MIXES. MATERIALS USED IN CONCRETE FROM TEST RECORDS OR TRIAL MIXTURES MUST BE SIMILAR TO MATERIAL TO BE USED IN THE PROPOSED MIX.
- A MINIMUM OF THREE STRENGTH TESTS (NINE CYLINDERS) SHALL BE DONE FOR EACH CONCRETE POUR MADE. IN ADDITION, THE AMOUNT OF STRENGTH TEST DONE SHALL NOT BE LESS THAN THREE FOR EVERY 30 C.Y. OF CONCRETE POURED.

TABLE 19.2.1.1 - LIMITS FOR f'c

APPLICATION	CONCRETE	MINIMUM f'c, PSI	MAXIMUM f'c, PSI
GENERAL	NORMAL WEIGHT AND LIGHTWEIGHT	2500	NONE
SPECIAL MOMENT FRAMES AND SPECIAL STRUCTURAL WALLS	NORMALWEIGHT	3000	NONE
	LIGHTWEIGHT	3000	5000 (1)

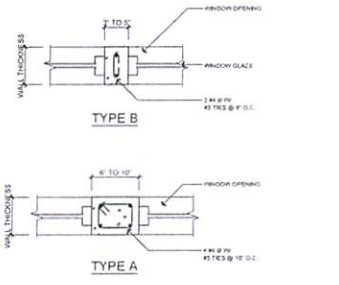
(1) THE LIMIT IS PERMITTED TO BE EXCEEDED WHERE DEMONSTRATED BY EXPERIMENTAL EVIDENCE THAT MEMBERS MADE WITH LIGHTWEIGHT CONCRETE PROVIDE STRENGTH AND TOUGHNESS EQUAL TO OR EXCEEDING THOSE OF COMPARABLE MEMBERS MADE WITH NORMALWEIGHT CONCRETE OF THE SAME STRENGTH.

STEELS TREATMENT EXPOSED IN BUILDING SITE, BEFORE CONCRETING

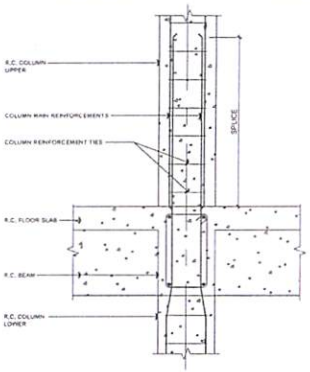
1. REMOVE OIL, FATS, SOLUBLE SALTS AND OTHER CONTAMINANTS, FOR THIS IS NEEDED WASHING WITH DETERGENT, FOLLOWED BY RINSING WITH FRESH WATER.
2. REMOVE ALL SURFACE OXIDE FLAKES USING A WIRE BRUSH, CHISEL AND HAMMER AND / OR A POLISHING MACHINE WITH WIRE WREATH (RECOMMENDED).
3. APPLY A CORROSIVE PASSIVATOR AND THEN AN ANTICORROSIVE PAINT. IT IS RECOMMENDED THAT THE ANTICORROSIVE AFFORDING GOOD ADHESION TO CONCRETE THAT WILL BE APPLIED LATER. IT CAN ALSO BE USED EPOXY RESIN AND SPRINKLING FINE SAND OVER IT, TO IMPROVE ADHESION WITH THE CONCRETE.

CONCRETE BLOCK WORKS:

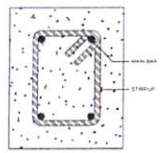
1. SOLID FILL - ALL CONCRETE BLOCK WALLS FILLED SOLID WITH CONCRETE
2. CAVITY FILL - ALL BLOCKS CARRYING REINFORCEMENT TO BE FILLED SOLID WITH CONCRETE.
3. NON LOAD BEARING WALLS TO BE REINFORCED WITH 1 # 3 Ø BARS @ 24" O.C. MIN.
4. LOAD BEARING WALL - TO BE REINFORCED WITH 1 # 3 Ø BAR @ 16 O.C. MIN.
5. FOUNDATION WALL - TO BE REINFORCED WITH 1 # 3 Ø BAR @ 16 O.C. MIN.



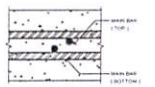
WS TYPICAL INTERMIDIATE COLUMN DETAILS



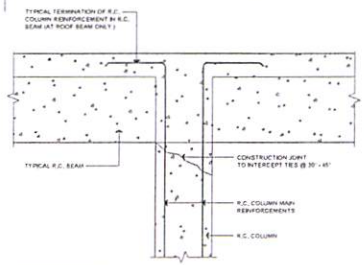
WS TYPICAL COLUMN TO BEAM CONSTRUCTION JOINT



TYPICAL BEAM COVER



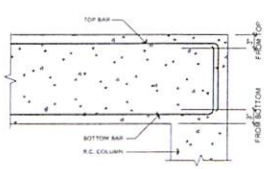
WS TYPICAL SLAB COVER



CONSTRUCTION JOINT NOTES

1. ALL CONSTRUCTION JOINTS TO COLUMNS TO INTERCEPT TIES BETWEEN 30°-45° DEGREES.
2. CONSTRUCTION JOINT TO BE ADEQUATELY ROUGHENED FOR GOOD BOND WITH SUBSEQUENT POURS.
3. JOINT TO BE EXPOSED TO ELEMENTS NO MORE THAN 7 DAYS PRIOR TO SUBSEQUENT POURS.
4. JOINT TO BE ADEQUATELY COVERED WHERE APPLICABLE TO SHIELD FROM ELEMENTS IN EXTREME CONDITIONS.
5. WHERE JOINTS ARE EXPOSED BEYOND 7 DAYS CONSTRUCTION JOINTS WILL REQUIRE ADDITIONAL CLEANING & TREATMENT PRIOR TO SUBSEQUENT POURS, HOWEVER SUCH SHALL BE APPROVED BY PROJECT ENGINEER AND WILL BE BASED ON TYPE, FRAME OF EXPOSURE TO THE ELEMENTS.

WS TYPICAL R.C. BEAM BAR TERMINATION DETAIL



DESIGN DEVELOPMENT

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INTERNATIONAL ENVIRONMENTS

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1"=1'-0"
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- [ ] BID PACKAGE
- [ ] CONSTRUCTION ISSUE
- [ ] CHANGE ORDER # 000

S 0.0
ISSUE 02.10.15

STRUCTURAL GENERAL NOTES

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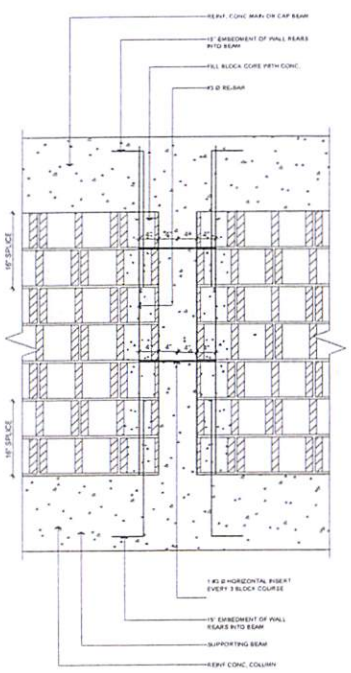
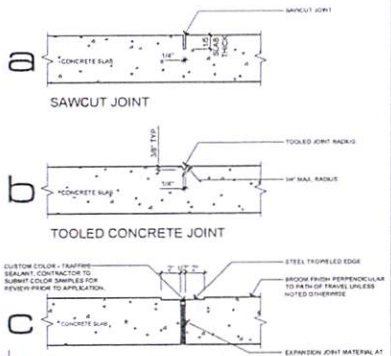


WS

TYPICAL EXTERNAL WALL REINF. DETAIL

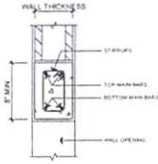


WS

CONCRETE WALK EXPANSION JOINT

LINTEL SCHEDULE

WALL THICKNESS	OPENING SPAN	LINTEL SIZE	MAIN BARS	STIRRUPS
4"	4'-6"	4"X8"	2 #3 @	#3 @
4"	6'-0"	4"X8"	4 #3 @	#3 @
8"	6'-0"	8"X8"	4 #3 @	#3 @
8"	10'-0"	8"X12"	4 #4 @	#3 @
8"	8'-0"	8"X8"	4 #3 @	#3 @
8"	10'-0"	8"X12"	4 #4 @	#3 @
8"	14'-0"	8"X12"	2 #4 @	#3 @
			2 #5 @	



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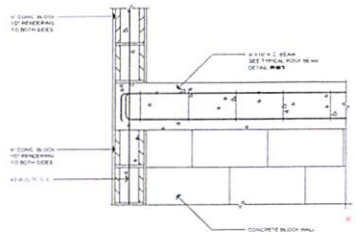
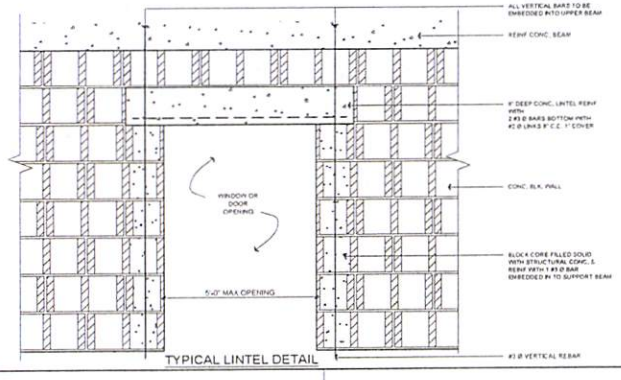
TYPICAL LINTEL SCHEDULE



WS

TYPICAL BEAM / WALL CONNCETION



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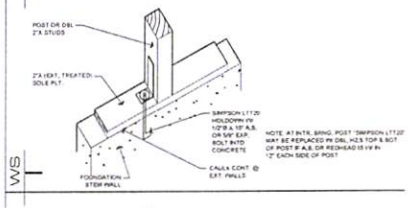
TYPICAL LINTEL DETAIL



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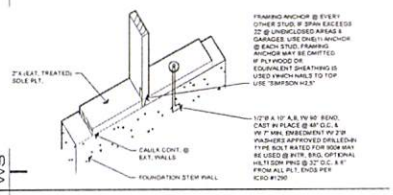

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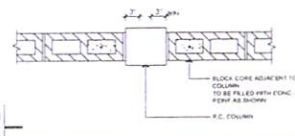

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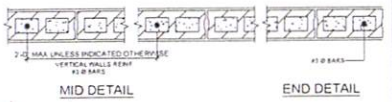

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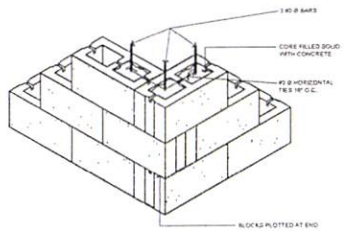
MID & END WALL DETAIL



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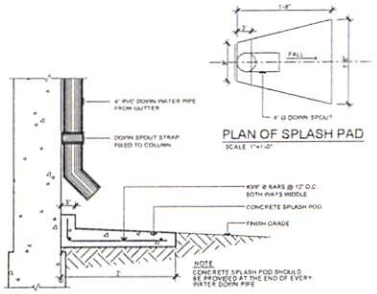
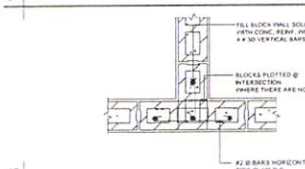


WS

PLAN OF SPLASH PAD
SCALE 1"=1'-0"

SPLASH POD SECTION



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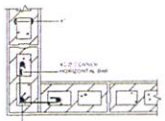
INTERSECTION DETAIL



WS

CORNER DETAIL

TYPICAL STRUCTURAL DETAILS

INTERNATIONAL ENVIRONMENTS

DESIGN DEVELOPMENT

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO. 2015-01
SCALE 1"=1'-0"
DATE 07.AUG.2015
DRAWN MC
OWNER BLL

- [x] DESIGN DEVELOPMENT
- [ ] CONSTRUCTION DOC
- [ ] CITY SUBMITTAL
- [ ] BID PACKAGE
- [ ] CONSTRUCTION ISSUE
- [ ] CHANGE ORDER # 000

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ISSUE 02.10.15

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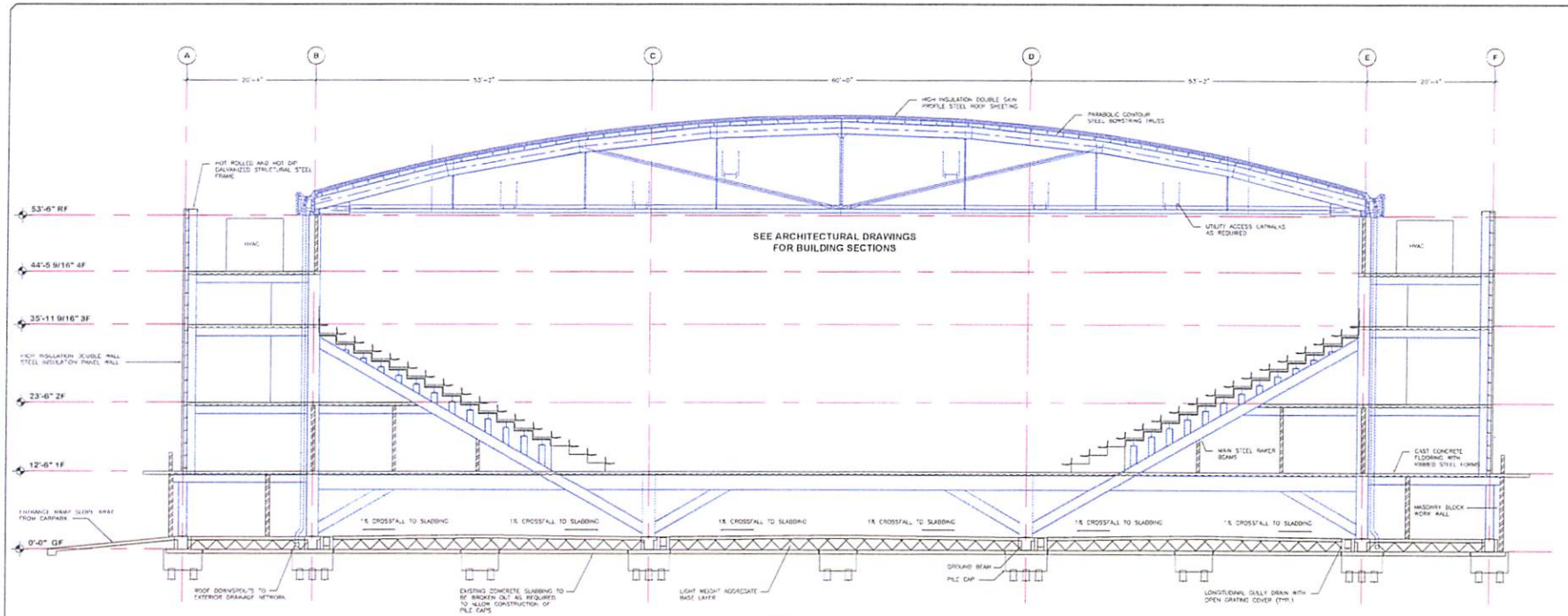

1 TYPICAL LATERAL SECTION
SCALE: 1/8" = 1'-0"

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CIVIC CENTER ARENA AND SPORTS PARK

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NOTES

1. ALL CONCRETE PILES TO BE 12"x12" SIZE
2. COVER TO MAIN REINFORCEMENT IN PILE CAPS=3".
3. COVER TO MAIN REINFORCEMENT IN STUB COLUMNS 2".
4. STEEL MEMBER SIZES ARE INDICATIVE ONLY.

SHEET

DESIGNED: DPR
DRAWN: LM
CHECKED: DPR
SCALE: AS SHOWN

REGISTRATION SEAL

ISSUE - DATE

TITLE

SECTIONS

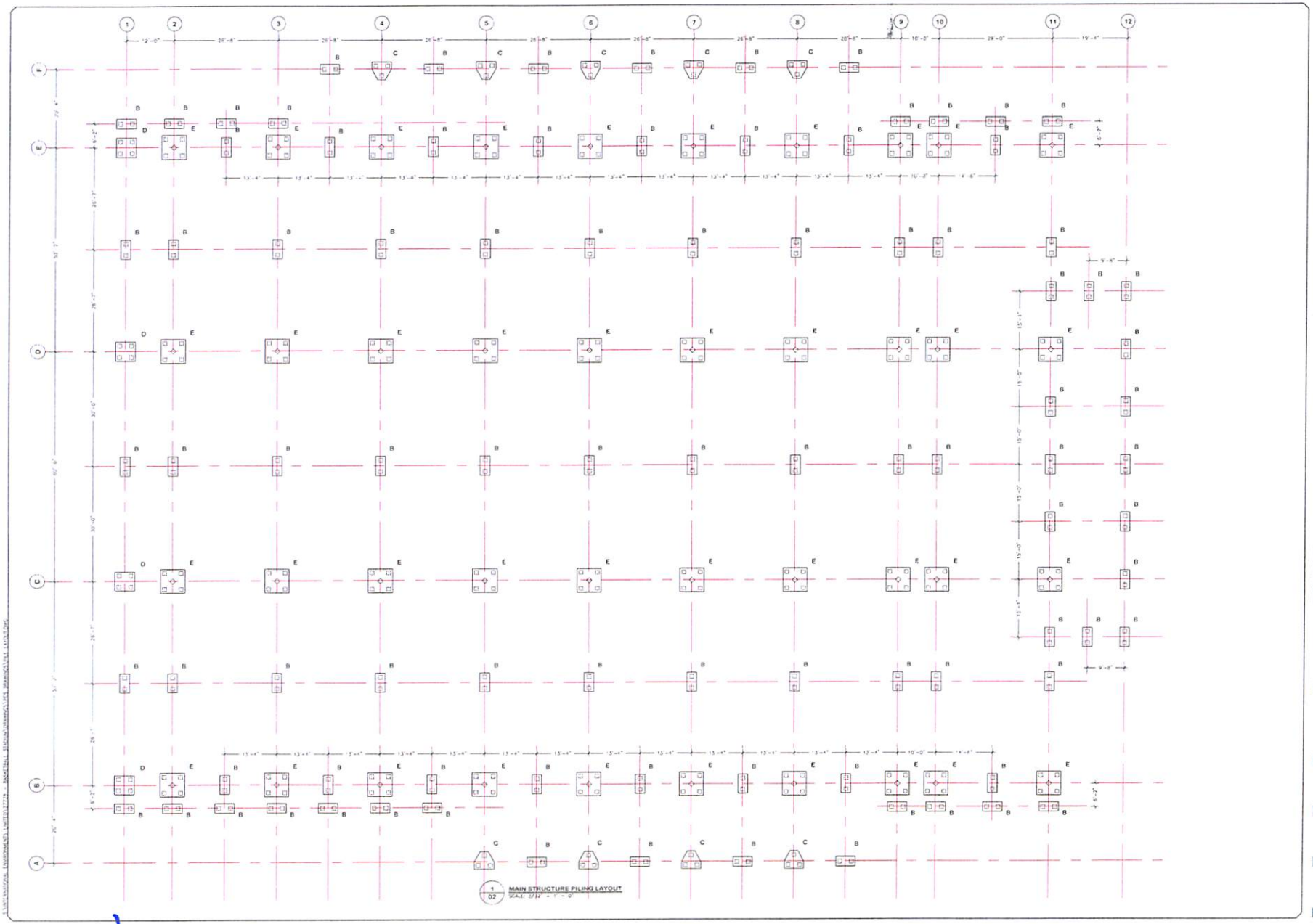
PROJECT NUMBER

27728

DRAWING NUMBER

01

S:\INTERNATIONAL ENVIRONMENTS LIMITED\27728 - BASKETBALL STADIA\DRAWINGS\ARCHITECTURAL DRAWINGS\SECTIONS.DWG



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2. COVER TO MAIN REINFORCEMENT IN PILE CAPS=3"
3. COVER TO MAIN REINFORCEMENT IN STUB COLUMNS 2"
4. FOR PILE CAP DETAILS SEE SHEET 27729/05
5. LETTER INDICATES PILE TYPE

SHEET

DESIGNED: DPR
DRAWN: LM
CHECKED: DPR
SCALE: AS SHOWN

REGISTRATION SEAL

ISSUE - DATE

TITLE

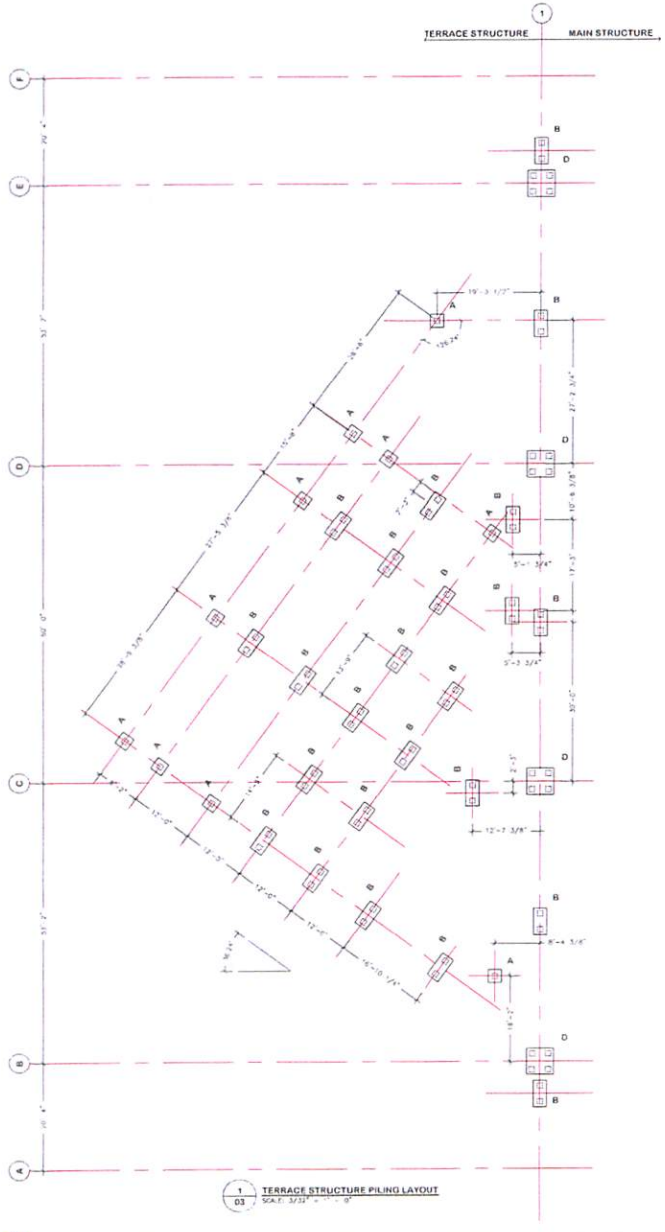
MAIN STUCTURE
PILE CAP LAYOUT

PROJECT NUMBER

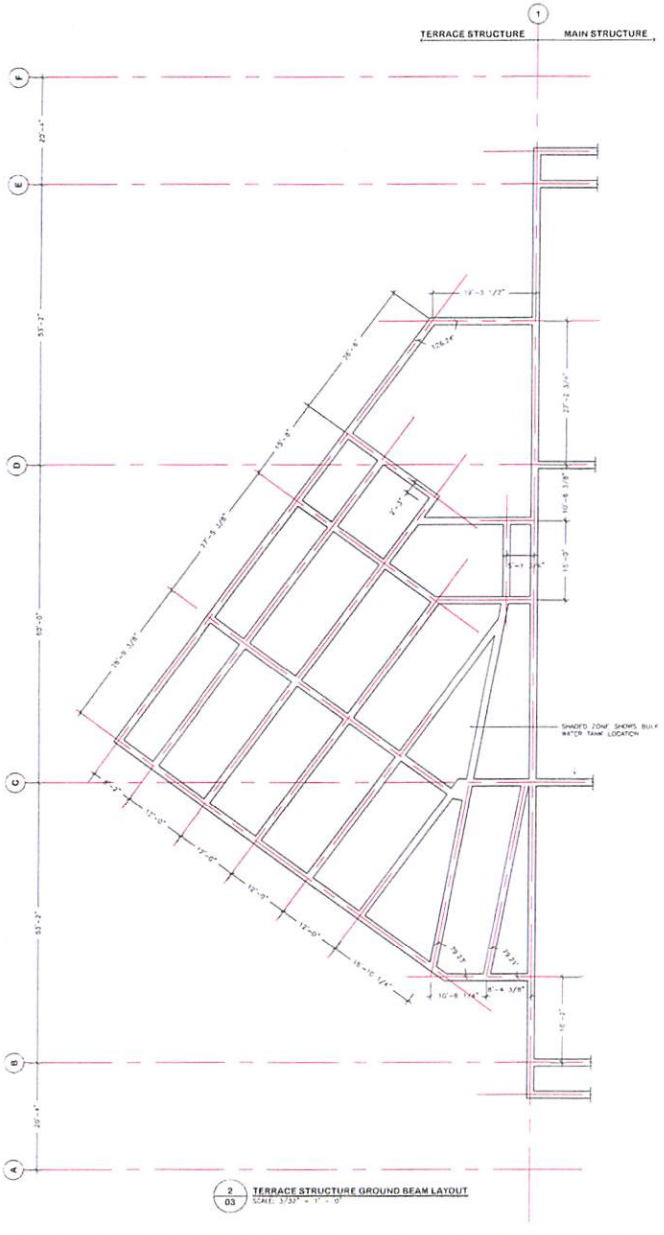
27728

DRAWING NUMBER

02



1 / 03 TERRACE STRUCTURE PILING LAYOUT
SCALE: 3/32" = 1' - 0"



2 / 03 TERRACE STRUCTURE GROUND BEAM LAYOUT
SCALE: 3/32" = 1' - 0"

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2. COVER TO MAIN REINFORCEMENT IN PILE CAPS= 3"
3. COVER TO MAIN REINFORCEMENT IN STUB COLUMNS 2"
4. FOR PILE CAP DETAILS SEE SHEET 27728/05.
5. LETTER INDICATES PILE TYPE

SHEET

DESIGNED: DPP
DRAWN: LM
CHECKED: DPP
SCALE: AS SHOWN

REGISTRATION SEAL

ISSUE - DATE

TITLE

ENTRANCE PILE CAP AND BEAM LAYOUT

PROJECT NUMBER

27728

DRAWING NUMBER

03

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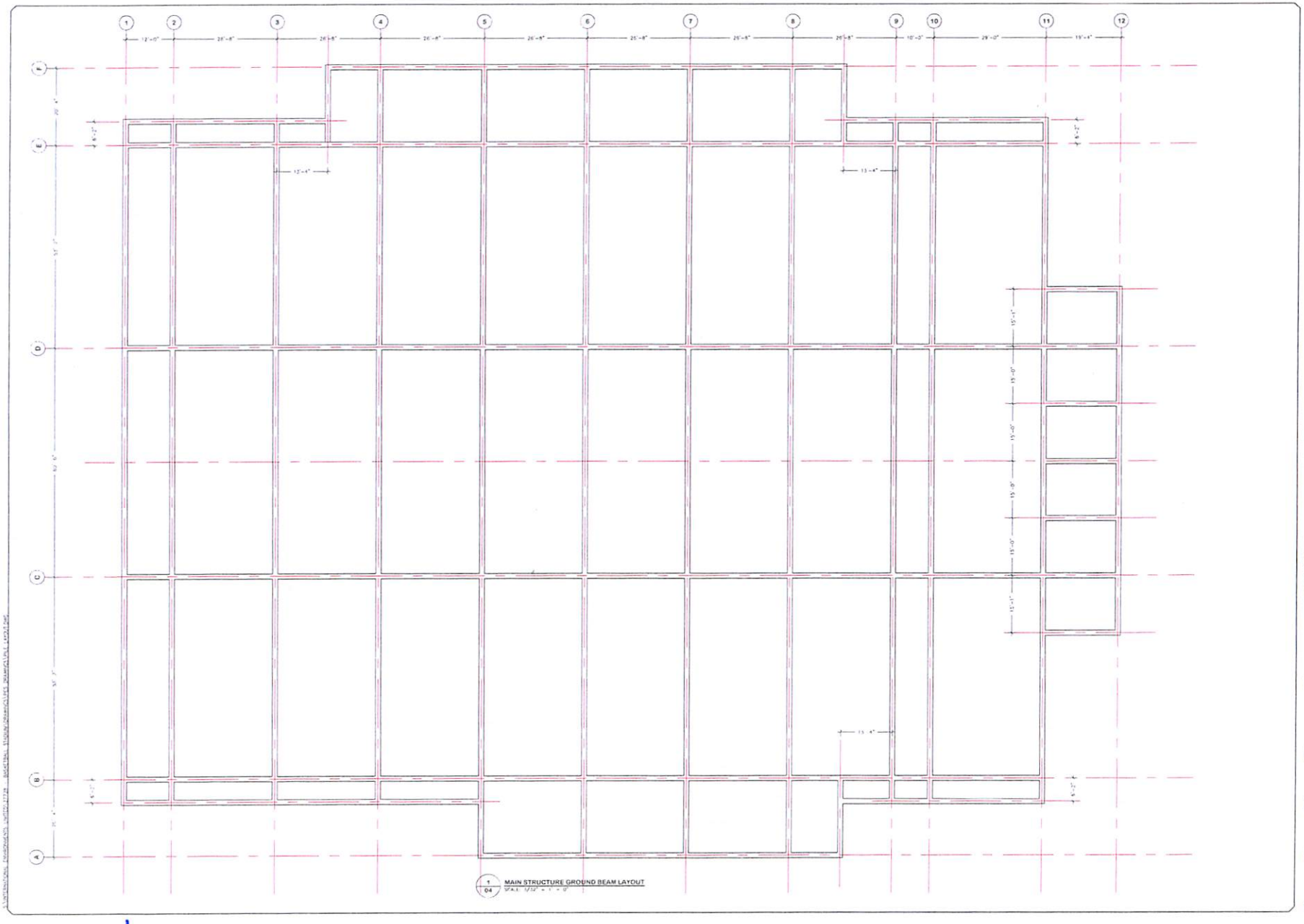

1/04 MAIN STRUCTURE GROUND BEAM LAYOUT
SCALE: 1/32" = 1'-0"

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3. COVER TO MAIN REINFORCEMENT IN STUB COLUMNS 2"
4. FOR PILE CAP DETAILS SEE SHEET 27728/05
5. ALL BEAMS 18"x24" PROVISIONAL SIZING

SHEET

DESIGNED: DPR
DRAWN: LM
CHECKED: DPR
SCALE: AS SHOWN

REGISTRATION SEAL

ISSUE - DATE

TITLE

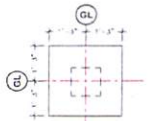
BEAM LAYOUT

PROJECT NUMBER

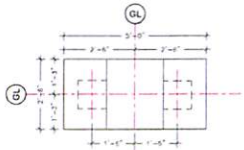
27728

DRAWING NUMBER

04



1/05 TYPE 'A' PILE DETAIL
SCALE: 1/2" = 1'



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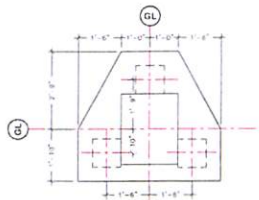

3/05 TYPE 'C' PILE DETAIL
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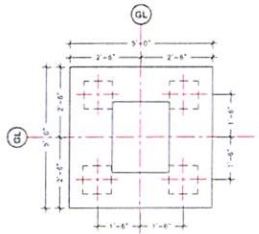

4/05 TYPE 'D' PILE DETAIL
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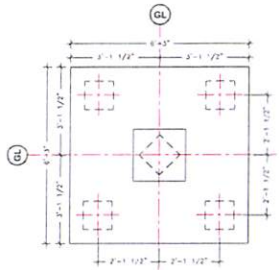

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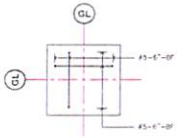
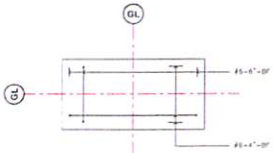


6/05 TYPE 'A' PILECAP REINFORCEMENT
SCALE: 1/2" = 1'



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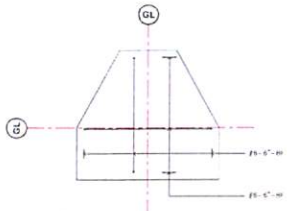

8/05 TYPE 'C' PILECAP REINFORCEMENT
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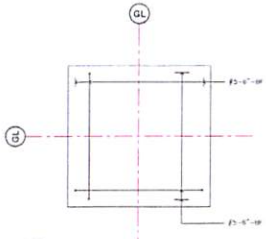

9/05 TYPE 'D' PILECAP REINFORCEMENT
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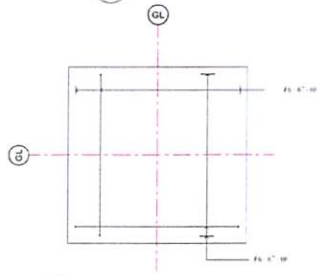
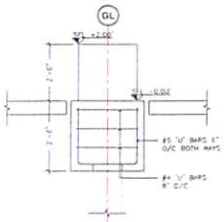


10/05 TYPE 'E' PILECAP REINFORCEMENT
SCALE: 1/2" = 1'



11/05 PILE CAP 'A' SECT.
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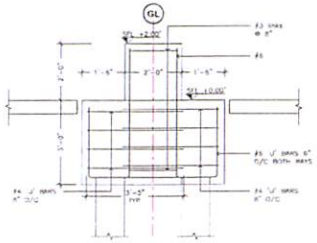

12/05 PILE CAP 'B' SECT.
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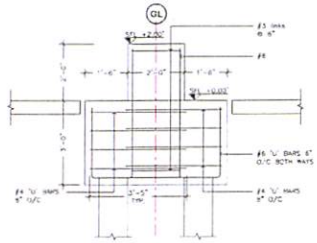

13/05 PILE CAP 'C' SECT.
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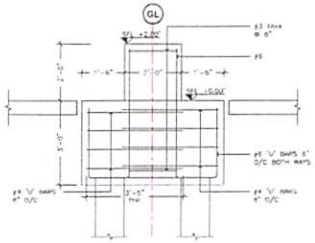

14/05 PILE CAP 'D' SECT.
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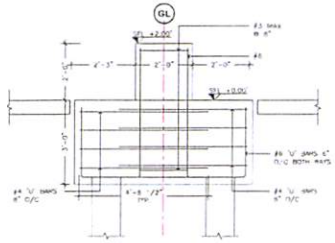
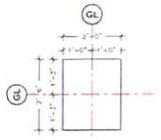
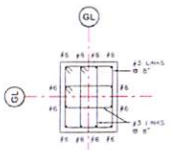


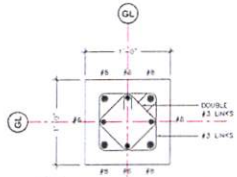
15/05 PILE CAP 'E' SECT.
SCALE: 1/2" = 1'



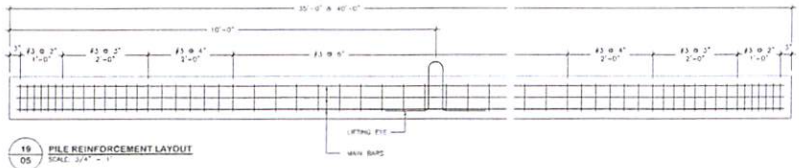
16/05 TYPICAL STUB COLUMN
SCALE: 1/2" = 1'



17/05 STUB COLUMN 'A' REINFORCEMENT
SCALE: 1/2" = 1'



18/05 PILE REINFORCEMENT DETAIL
SCALE: 1 1/2" = 1'



19/05 PILE REINFORCEMENT LAYOUT
SCALE: 3/4" = 1'

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2. COVER TO MAIN REINFORCEMENT IN PILE CAPS= 3".
3. COVER TO MAIN REINFORCEMENT IN ST.-B COLUMNS 2".
4. IF CUT OF LEVEL NOT INDICATED SEE SHEET 01 FOR NOTES

SHEET

DESIGNED: DPR
DRAWN: LM
CHECKED: DPR
SCALE: AS SHOWN

REGISTRATION SEAL

ISSUE - DATE

A

TITLE

PILE CAP DETAILS

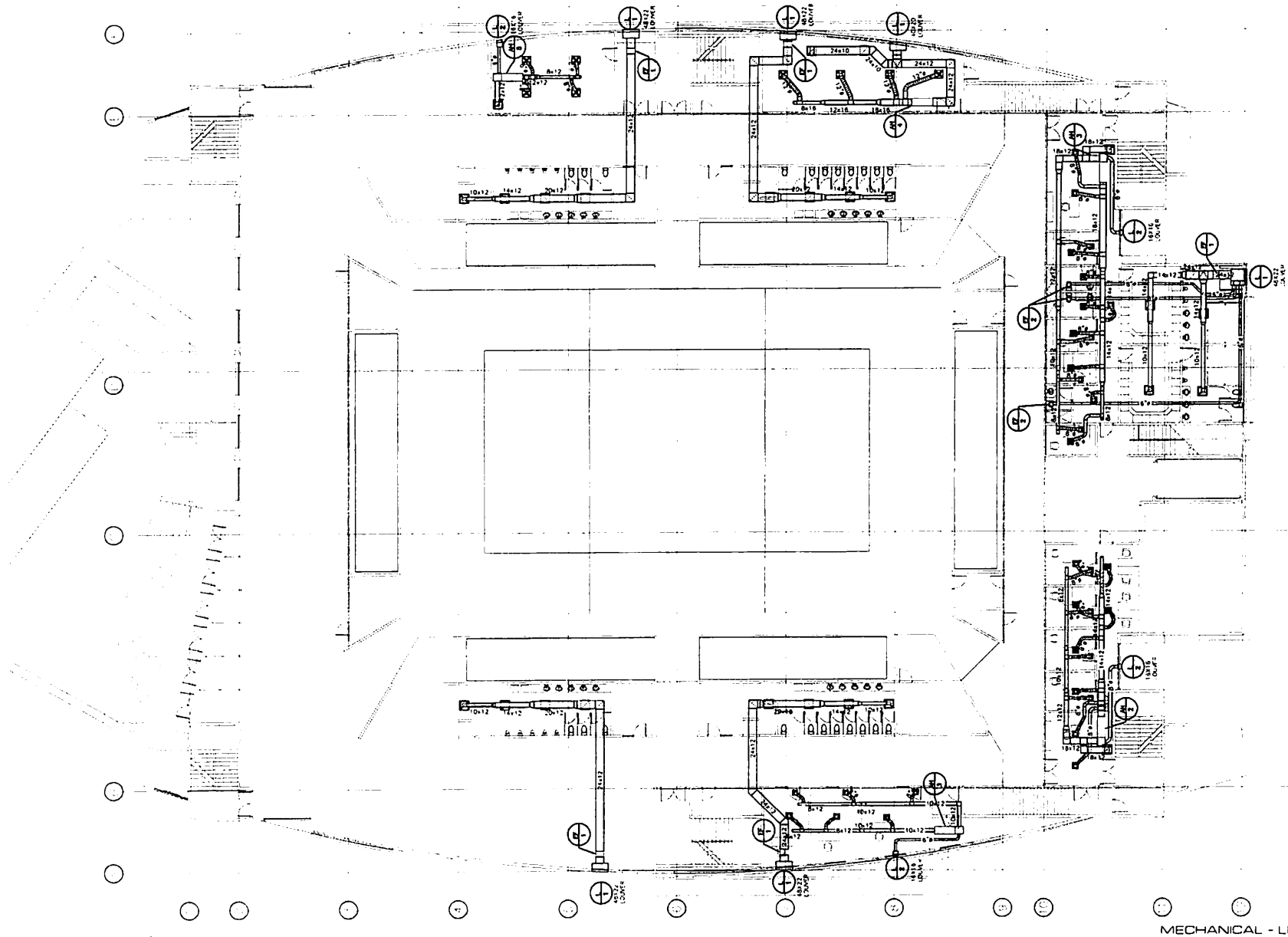
PROJECT NUMBER

27728

DRAWING NUMBER

05

S:\INTERNATIONAL ENVIRONMENTS LIMITED\27728 - BASEBALL STADIUM\DRAWINGS\AS BUILT\PILE CAP DETAILS.DWG



MECHANICAL - LEVEL 1

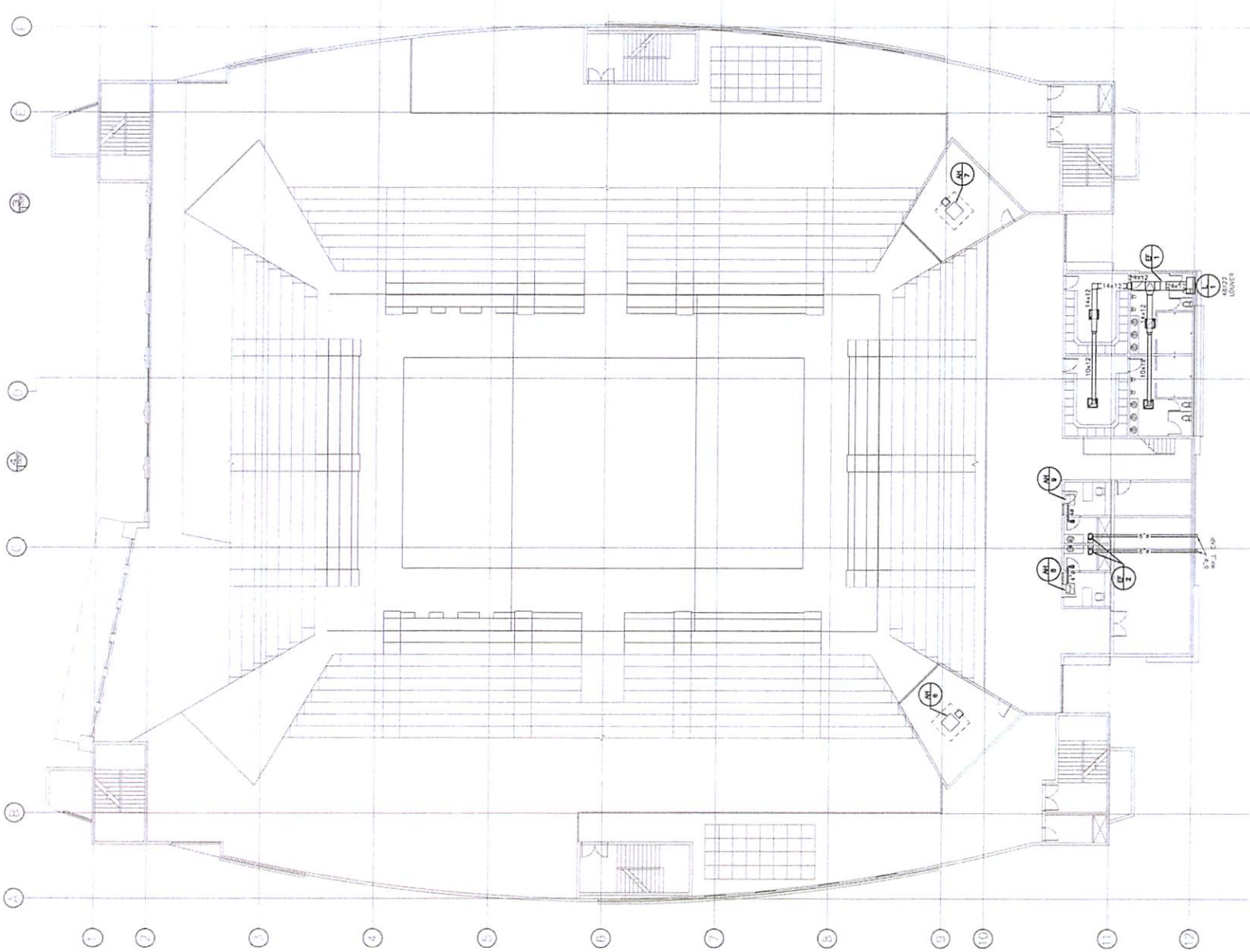
DESIGN DEVELOPMENT

DG ENGINEERING GROUP

PROJECT INFO

CONVENTION CENTER

M 2.1



MECHANICAL - LEVEL 2

DESIGN DEVELOPMENT

ENGR

ARCH

DG ENGINEERING GROUP
ENGINEERING CONSULTING AND DESIGN

INTERNATIONAL ENVIRONMENTS

PROJECT INFO

CONVENTION CENTER

PROJECT NO. 2015-

SCALE 3/32" = 1'-0"

DATE 30.09.2015

DRAWN DTD

OWNER BL

- [x] DESIGN DEVELOPMENT
- [ ] PROGRESS CONST. DOCS.
- [ ] CITY SUBMITTAL # _____
- [ ] BID PACKAGE
- [ ] CONSTRUCTION ISSUE
- [ ] RECORD DRAWINGS

M 2.2

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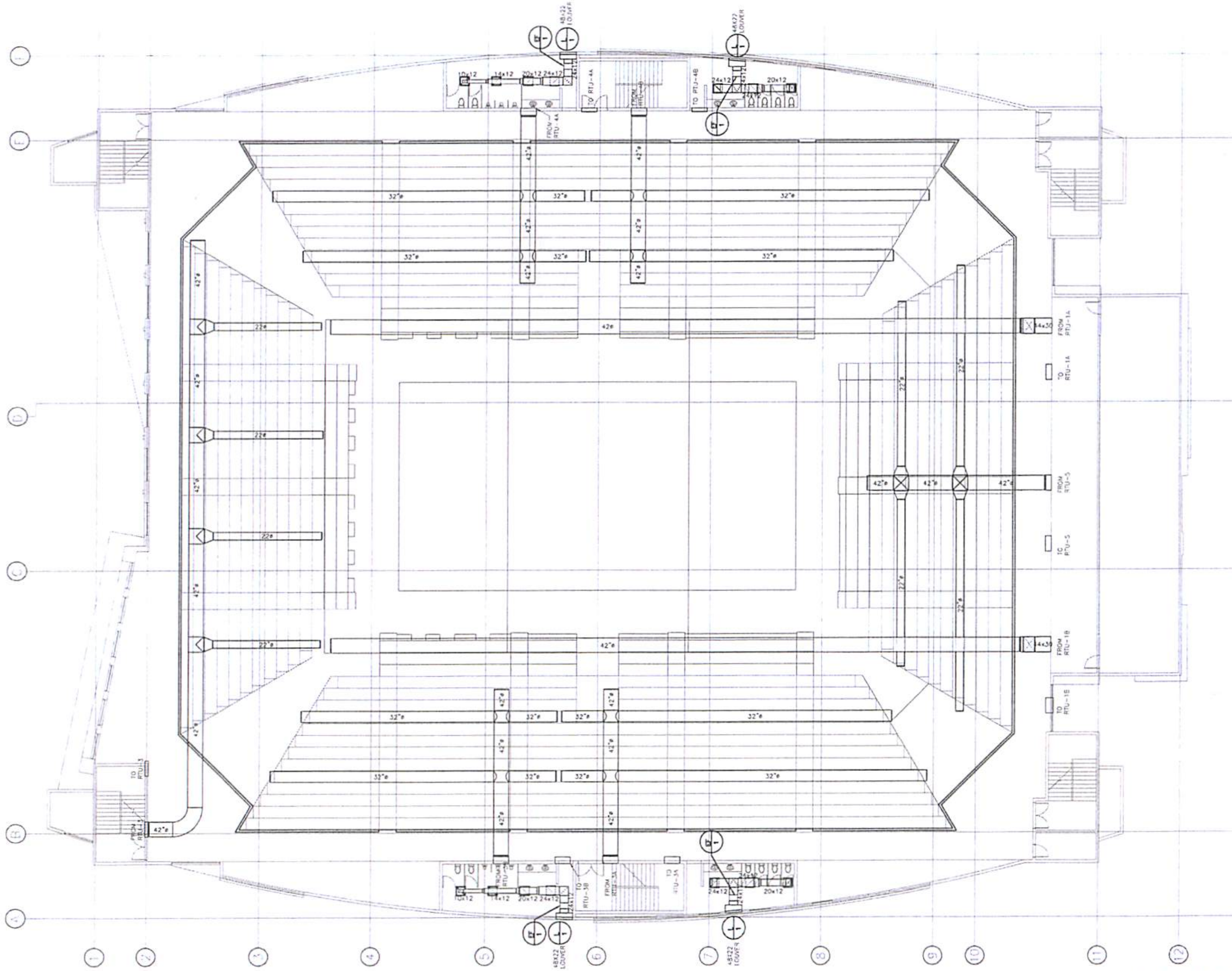

MECHANICAL - LEVEL 3

DESIGN DEVELOPMENT

ENGR
DG ENGINEERING GROUP
ENGINEERING CONSULTING AND DESIGN
P.O.BOX 2460
BELIZE CITY, BELIZE

ARCH
INTERNATIONAL ENVIRONMENTS

PROJECT INFO

CONVENTION CENTER

PROJECT NO. 2015-
SCALE
DATE 30.09.2015
DRAWN DTG
OWNER BIL

- [x] DESIGN DEVELOPMENT
- [ ] PROGRESS CONST. DOCS.
- [ ] CITY SUBMITTAL # _____
- [ ] BID PACKAGE
- [ ] CONSTRUCTION ISSUE
- [ ] RECORD DRAWINGS

M 2.3

I.E.

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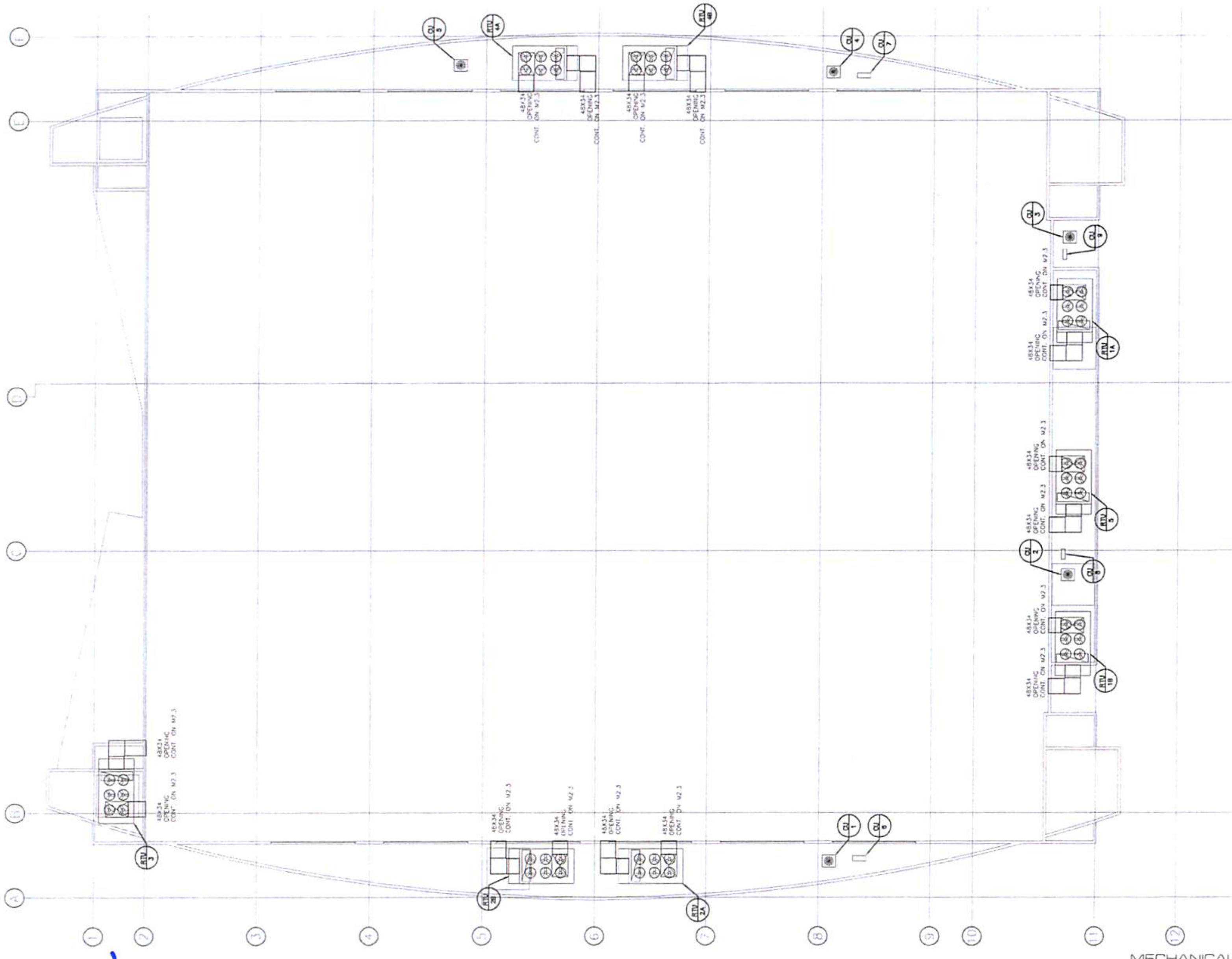

DESIGN DEVELOPMENT

ENGR: **DG ENGINEERING GROUP**
ENGINEERING CONSULTING AND DESIGN
P.O.BOX 2444
BELIZE CITY, BELIZE

ARCH: INTERNATIONAL ENVIRONMENTS

PROJECT INFO

CONVENTION CENTER

PROJECT NO. 2015-
SCALE
DATE 30.09.2015
DRAWN DTG
OWNER BIL

- [x] DESIGN DEVELOPMENT
- [ ] PROGRESS CONST. DOCS.
- [ ] CITY SUBMITTAL # _____
- [ ] BID PACKAGE
- [ ] CONSTRUCTION ISSUE
- [ ] RECORD DRAWINGS

M 2.4

MECHANICAL - LEVEL 4

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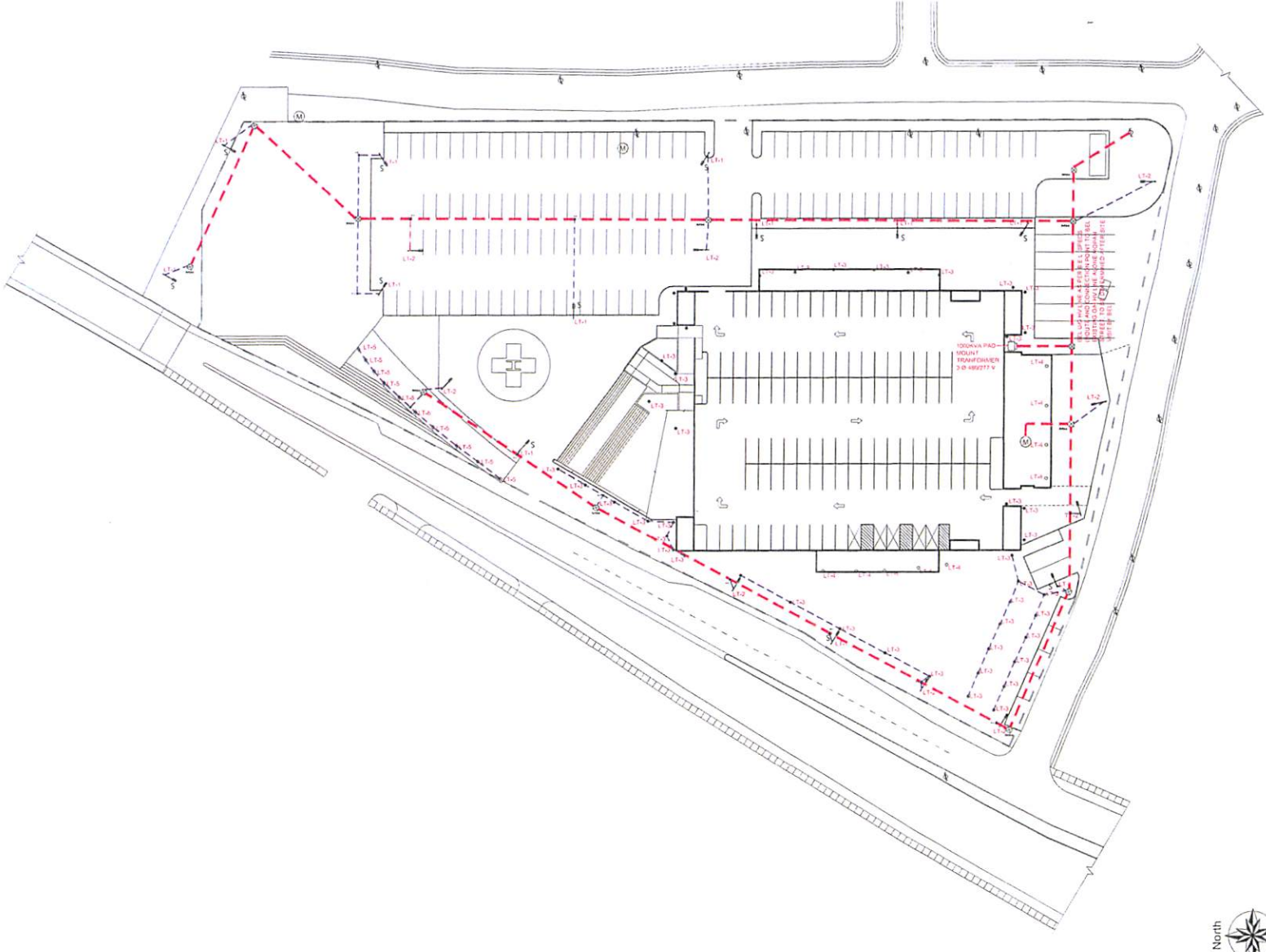

North

ELECTRAICAL SITE PLAN

IES
INNOVATIVE ENGINEERING SERVICES
Electrical Engineering
& Telecommunication Services
Residential / Commercial/ Industrial
610-0422 / 605-2022

Innovative Engineering Services
Electrical Engineering & Telecommunication Services
Residential / Commercial / Industrial
53 Neal Pen Road
Belize City, Belize
Phone: (501) 610-0422 (501) 207-7461
E-mail: charley_raymond@yahoo.com
ENG
[JOB # EG-1/09/2015-005]

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INTERNATIONAL ENVIRONMENTS

ARCH

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO.2015-01
SCALE
DATE
DESIGN 07.AUG.2014
DRAWN HG
OWNER BL

DESIGN DEVELOPMENT
- ☐ PROGRESS CONST. DOCS
- ☐ CITY SUBMITTAL # _____
- ☐ BID PACKAGE
- ☐ CONSTRUCTION ISSUE
- ☐ CHANGE ORDER

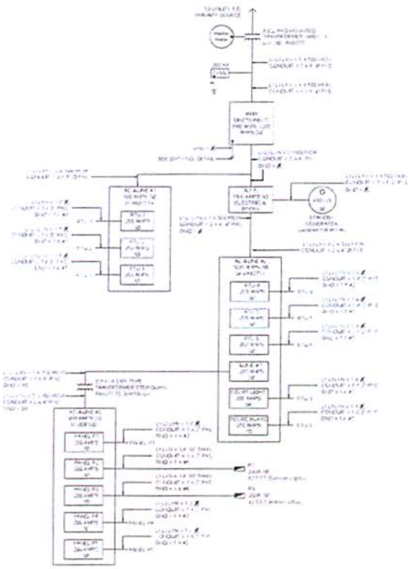
DESIGN DEVELOPMENT

E 1.0

ELECTRICAL SYSTEM

COMMUNICATIONS AND FIRE ALARM SYSTEM

SINGLE LINE DRAWING SHOWING ELECTRICAL PLAN FOR CIVIC CENTER ARENA AND SPORTS PARK LOCATED IN BELIZE CITY, BELIZE DISTRICT



ELECTRICAL INSTALLATION REQUIREMENTS

CONDUCTORS

CONDUITS

EXECUTION & WORKMANSHIP

METHOD & WIRING

WIRING

CIRCUITS

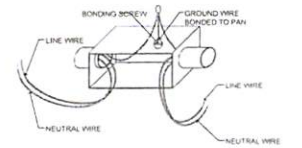
MOUNTING HEIGHTS

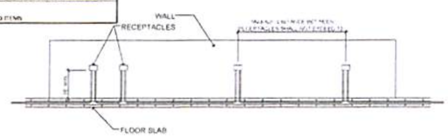
IDENTIFICATION

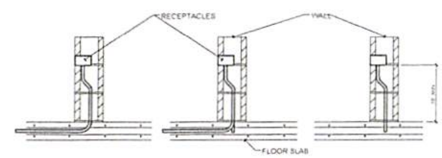
CATV / TELECOM RISER NOTES

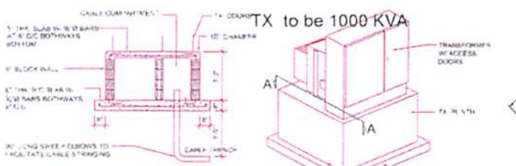
MOUNTING HEIGHT SCHEDULE			
DESCRIPTION	SI	IMPERIAL	REMARKS
RECEPTACLE GENERAL	45.7 cm	1'-6"	
RECEPTACLE-TOILET AREAS	1.07 m	3'-6"	
RECEPTACLE-ABOVE COUNTERS	10.16 cm	0'-4"	ABOVE SPLASH BOARD OR AS DIRECTED
RECEPTACLE-EXTERIOR	47.5 cm	1'-6"	MINIMUM ABOVE FINISHED GRADE
RECEPTACLE-APPLIANCES OR EQUIP			AS PER MANUFACTURER REQUIREMENTS
RECEPTACLE-SPECIAL PURPOSE			AS REQUIRED OR AS DIRECTED
WALL SWITCH GENERAL	1.22 m	4'-4"	
WALL SWITCH-SPECIAL NEEDS	1.22 m	4'-0"	
WALL SWITCH MANUAL MOTOR STARTER	1.22 m	4'-0"	
WALL BRACKET GENERAL	2.08 m	6'-8"	OR ABOVE MIRRORS
WALL BRACKET STAIRWELLS	2.36 m	7'-8"	ABOVE FLOOR OR LANDINGS
WALL BRACKET-EXIT LIGHT	2.11 m	7'-6"	OR ABOVE DOOR
DISTRIBUTION PANEL	2.03 m	6'-6"	FROM FLOOR TO TOP MOST CIRCUIT BREAKER
WALL SWITCH	17.78 cm	0'-7"	FROM EDGE OF DOOR FRAME TO CENTERLINE OF FIRST HANDY BOX

NOTE:
1. ALL DIMENSIONS ARE FROM FLOOR TO CENTERLINE OF DEVICE; SEE REMARKS FOR LAST TWO ITEMS



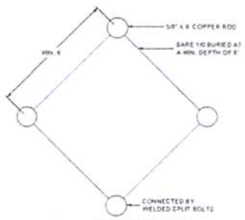




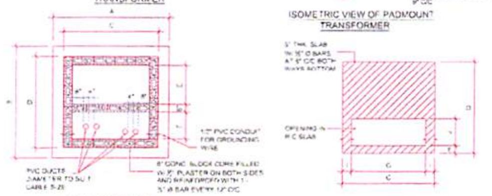


SECTION A-A FOR PADMOUNT TRANSFORMER

ISOMETRIC VIEW OF PADMOUNT TRANSFORMER

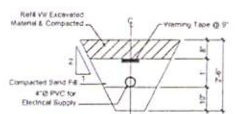


GROUNDING DETAIL



PLINTH FOUNDATION PLAN

PLAN FOR PADMOUNT TRANSFORMER



POWER SUPPLY TRENCH
$\frac{1}{2}$" = 1'-0"

PLINTH DIMENSIONS APPROVED FOR CONSTRUCTION (ALL DIMENSIONS ARE IN INCHES AND FEET)										
KVA	A	B	C	D	E	F	G	H	I	J
45 / 112.5 / 225 / 500	7'-6"	[illegible]	[illegible]	[illegible]	2'-2"	[illegible]	3'-3 1/2"	[illegible]	1'-8"	[illegible]
750	[illegible]	[illegible]	[illegible]	[illegible]	2'-1/2"	[illegible]	3'-10 1/2"	[illegible]	[illegible]	[illegible]

NOTE:
- ELEVATED CONCRETE PADS ARE REQUIRED IN AREAS PRONE TO FLOODING
- DUCT ALIGNMENT TO SUIT FIELD REQUIREMENTS
- DIMENSIONS ARE BASED ON TYPICAL TRANSFORMER FOOTPRINTS SUPPLIED BY MANUFACTURER

Innovative Engineering Services
Electrical Engineering & Telecommunication Services
Residential / Commercial / Industrial
53 Neal Pen Road
Belize City, Belize
Phone: (501) 610-0422; (501) 207-7461
E-mail: charley_raymond@yahoo.com

ENG

(JOB #: ED-1/08/2015-005)

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INTERNATIONAL ENVIRONMENTS

ARCH

DESIGN DEVELOPMENT

PROJECT INFO

Civic Center
Arena & Sports Park

PROJECT NO.2015-01
SCALE
DATE
DESIGN 07.AUG.2014
DRAWN HG
OWNER BL

- ☒ DESIGN DEVELOPMENT
- ☐ PROGRESS CONST. DOCS.
- ☐ CITY SUBMITTAL # ____
- ☐ BID PACKAGE
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E 2.0 # 000

RISER DIAGRAM, ELECTRICAL NOTES AND DETAILS

Medina's Construction LTD./International Environments Ltd.

Revised BOQ 26rd Sept 2015

Project: New Civic Center

Item	Description	Quantity	Unit	Rate	Sub-Total	Total
1	**Preliminaries**	1	L.S.	$ 2,071,810.00	$ 2,071,810.00	$ 2,071,810.00
1.1	**Administration**	1	L.S.	$ 2,071,810.00	$ 2,071,810.00	
	Site facilities, Utilities & rentals	*20*	Mts	$ 40,000.00	$ 800,000.00	
	Management & Staffing	20	Mts	$ 50,000.00	$ 1,000,000.00	
	Insurances	1	L.S.	$ 120,000.00	$ 120,000.00	
	Site works, Demolition & preparation	1	L.S.	$ 151,810.00	$ 151,810.00	
2	**Pile Cost**	1	L.S.	$ 833,069.83	$ 833,069.83	$ 833,069.83
2.1	**Pile cost**	495	No.	$ 1,682.97	$ 833,069.83	
	Test Pile Installation	*2*	No.	$ 2,888.89	$ 5,777.78	
	Static Load Test	2	No.	$ 26,000.00	$ 52,000.00	
	Supply of Pile	495	No.	$ 1,160.59	$ 574,492.05	
	Install Pile	*495*	No.	$ 286.00	$ 141,570.00	
	Recording of Pile	*495*	No.	$ 39.00	$ 19,305.00	
	Cutting of pile	495	No.	$ 75.00	$ 37,125.00	
	Engineering	*1*	L.S.	$ 2,800.00	$ 2,800.00	
3	**PILE CAPS**	1	L.S.	$ 436,680.46	$ 436,680.46	$ 436,680.46
3.1	**Single Pile Caps**	1	NO	$ 791.18	$ 791.18	
	Excavation	*2*	CY	$ 25.00	$ 50.00	
	Backfill	*1*	CY	$ 20.00	$ 20.00	
	Blinding	*0.15*	CY	$ 265.32	$ 39.80	
	Formwork	*35*	SF	$ 4.95	$ 173.25	
	(Rebar)	106	Lbs	$ 2.38	$ 252.33	
	Concrete	0.81	CY	$ 315.80	$ 255.80	
3.2	**Double Pile Caps**	124	NO	$ 1,759.99	$ 218,238.65	
	Excavation	*370*	CY	$ 25.00	$ 9,250.00	
	Backfill	*162*	CY	$ 20.00	$ 3,240.00	
	Blinding	*22.8*	CY	$ 265.32	$ 6,049.30	
	Formwork	*7192*	SF	$ 4.95	$ 35,600.40	
	(Rebar)	*36300*	Lbs	$ 2.38	$ 86,412.15	
	Concrete	*246*	CY	$ 315.80	$ 77,686.80	
3.3	**triple Caps**	10	NO	$ 2,771.92	$ 27,719.24	
	Excavation	*57.5*	CY	$ 25.00	$ 1,437.50	
	Backfill	*25*	CY	$ 20.00	$ 500.00	
	Blinding	*2.75*	CY	$ 265.32	$ 729.63	
	Formwork	*702*	SF	$ 4.95	$ 3,474.90	
	(Rebar)	*4620*	Lbs	$ 2.38	$ 10,997.91	
	Concrete	*33.5*	CY	$ 315.80	$ 10,579.30	
3.4	**Quad Pile Caps (Four Pile Cluster)**	4	NO	$ 3,733.02	$ 14,932.10	
	Excavation	*25*	CY	$ 25.00	$ 625.00	
	Backfill	*10*	CY	$ 20.00	$ 200.00	
	Blinding	*1.335*	CY	$ 265.32	$ 354.20	
	Formwork	*328.5*	SF	$ 4.95	$ 1,626.08	
	(Rebar)	*2640*	Lbs	$ 2.38	$ 6,284.52	
	Concrete	*18.5*	CY	$ 315.80	$ 5,842.30	

3.5	**Five pile caps**	**40**	NO	$	**4,374.98**	$	**174,999.30**	
	Excavation	*266*	CY	$	25.00	$	6,650.00	
	Backfill	*60*	CY	$	20.00	$	1,200.00	
	Blinding	*16*	CY	$	265.32	$	4,245.12	
	Formwork	*3636*	SF	$	4.95	$	17,998.20	
	(Rebar)	*30360*	Lbs	$	2.38	$	72,271.98	
	Concrete	*230*	CY	$	315.80	$	72,634.00	
4	**Ground Floor Beam (Pile to Pile Connection**	**1**	**L.S.**	**$**	**281,611.65**	**$**	**281,611.65**	**$ 281,611.65**
4.1	**Lateral**	**591**	**L.f.**	**$**	**223.39**	**$**	**132,024.34**	
	Excavation	*133*	CY	$	25.00	$	3,325.00	
	Backfill	*30*	CY	$	20.00	$	600.00	
	Blinding	*13*	CY	$	265.32	$	3,449.16	
	Formwork	*4702.5*	SF	$	4.95	$	23,277.38	
	(Rebar)	*26400*	Lbs	$	2.38	$	62,845.20	
	Concrete	*122*	CY	$	315.80	$	38,527.60	
4.2	**Longitudinal**	**1943**	**L.f.**	**$**	**76.99**	**$**	**149,587.32**	
	Excavation	*133*	CY	$	25.00	$	3,325.00	
	Backfill	*30*	CY	$	20.00	$	600.00	
	Blinding	*27*	CY	$	265.32	$	7,163.64	
	Formwork	*5179.5*	SF	$	4.95	$	25,638.53	
	(Rebar)	*29700*	Lbs	$	2.38	$	70,700.85	
	Concrete	*133.5*	CY	$	315.80	$	42,159.30	
5	**Structural Slabs**	**1**	**L.S.**	**$**	**1,857,472.07**	**$**	**1,857,472.07**	**$ 1,857,472.07**
5.1	**Slab on Grade (Level 0)**	**5157**	**SY**	**$**	**134.56**	**$**	**693,915.00**	
	Backfill (sand 18")	*3430*	CY	$	42.00	$	144,060.00	
	Backfill (crushed stone 6")	*1143*	CY	$	75.00	$	85,725.00	
	Slab on Grade	*5157*	SY	$	90.00	$	464,130.00	
5.2	**Slab on Metal structure (Level 1)**	**5591**	**SY**	**$**	**111.25**	**$**	**621,998.75**	
	General additional support to metal framing	*50319*	SF	$	1.25	$	62,898.75	
	Concrete Slab	*5591*	SY	$	90.00	$	503,190.00	
	Finishing	*5591*	SY	$	10.00	$	55,910.00	
5.3	**Slab on Metal structure (Level 2)**	**1392**	**SY**	**$**	**121.38**	**$**	**168,954.00**	
	General additional support to metal framing	*12528*	SF	$	1.38	$	17,226.00	
	Concrete Slab	*1392*	SY	$	99.00	$	137,808.00	
	Finishing	*1392*	SY	$	10.00	$	13,920.00	
5.4	**Slab on Metal structure (Level 3)**	**1821**	**SY**	**$**	**132.51**	**$**	**241,305.26**	
	General additional support to metal framing	*16389*	SF	$	1.51	$	24,788.36	
	Concrete Slab	*1821*	SY	$	108.90	$	198,306.90	
	Finishing	*1821*	SY	$	10.00	$	18,210.00	
5.5	**Slab on Metal structure (Level 4, roof)**	**907**	**SY**	**$**	**144.76**	**$**	**131,299.06**	
	General additional support to metal framing	*8162*	SF	$	1.66	$	13,579.53	
	Concrete Slab	*907*	SY	$	119.79	$	108,649.53	
	Finishing	*907*	SY	$	10.00	$	9,070.00	
6	**Concrete Bleachers**	**1**	**L.S.**	**$**	**145,583.00**	**$**	**145,583.00**	**$ 145,583.00**

6.1	**Bleachers (longitudinal)**	1	L.S.	$	93,382.10	$	93,382.10	
	Fabric reinforcement	*1271*	SY	$	11.50	$	14,616.50	
	Concrete infill	*177.6*	CY	$	316.00	$	56,121.60	
	Finishes	*3774*	L.F.	$	6.00	$	22,644.00	
6.2	**Bleachers (transversal)**	1	L.S.	$	52,200.90	$	52,200.90	
	Fabric reinforcement	*699*	SY	$	11.50	$	8,038.50	
	Concrete infill	*98.4*	CY	$	316.00	$	31,094.40	
	Finishes	*2178*	L.F.	$	6.00	$	13,068.00	
7	**Walls**	1	L.S.	$	1,743,542.94	$	1,743,542.94	$ 1,743,542.94
7.1	**Level 0**	1	L.S.	$	408,069.18	$	408,069.18	
	External							
	8" Block walls	*1239*	SY	$	60.00	$	74,340.00	
	Rebar #4 @ 24"c.c.	*5120*	Lbs	$	2.38	$	12,185.60	
	Rebar #4 (H)	*2795*	Lbs	$	2.38	$	6,652.10	
	Corefill Concrete	*65*	CY	$	316.00	$	20,540.00	
	Fairface	*2477*	SY	$	15.00	$	37,155.00	
	Painting	*2477*	SY	$	10.00	$	24,770.00	
	Intermediate beam							
	Formwork	*950*	SF	$	4.95	$	4,702.50	
	(Rebar)	*2114*	Lbs	$	2.38	$	5,032.38	
	Concrete	*11.3*	CY	$	315.80	$	3,568.54	
	Cap beam							
	Formwork	*1660*	SF	$	4.95	$	8,217.00	
	(Rebar)	*2875*	Lbs	$	2.38	$	6,843.94	
	Concrete	*18.5*	CY	$	315.80	$	5,842.30	
	Internal							
	8" Block walls	*762.13*	SY	$	60.00	$	45,727.80	
	Rebar #4 @ 24"c.c.	*3150*	Lbs	$	2.38	$	7,497.00	
	Rebar #4 (H)	*1718*	Lbs	$	2.38	$	4,088.84	
	Corefill Concrete	*40.52*	CY	$	316.00	$	12,804.32	
	Fairface	*1524.26*	SY	$	15.00	$	22,863.90	
	Painting	*1524.26*	SY	$	10.00	$	15,242.60	
	Intermediate beam							
	Formwork	*390.53*	SF	$	4.95	$	1,933.12	
	(Rebar)	*868.25*	Lbs	$	2.38	$	2,066.87	
	Concrete	*4.62*	CY	$	315.80	$	1,459.00	
	Cap beam							
	Formwork	*919.13*	SF	$	4.95	$	4,549.69	
	(Rebar)	*1768.87*	Lbs	$	2.38	$	4,210.80	
	Concrete	*12.55*	CY	$	315.80	$	3,963.29	
	Staircase							
	8" Block walls	*505.55*	SY	$	60.00	$	30,333.00	
	Rebar #4 @ 24"c.c.	*2089.59*	Lbs	$	2.38	$	4,973.22	
	Rebar #4 (H)	*1139.78*	Lbs	$	2.38	$	2,712.68	
	Corefill Concrete	*26.95*	CY	$	316.00	$	8,516.20	
	Fairface	*1011.1*	SY	$	15.00	$	15,166.50	
	Painting	*1011.1*	SY	$	10.00	$	10,111.00	
7.2	**Level 1**	1	L.S.	$	588,965.96	$	588,965.96	
	Internal							
	8" Block walls	*3230*	SY	$	66.00	$	213,180.00	
	Rebar #4 @ 24"c.c.	*13096.125*	Lbs	$	2.62	$	34,285.66	
	Rebar #4 (H)	*6479.38*	Lbs	$	2.62	$	16,963.02	

	Corefill Concrete	*160.77*	CY	$	347.60	$	55,883.65	
	Fairface	*6460*	SY	$	16.50	$	106,590.00	
	Painting	*6460*	SY	$	11.00	$	71,060.00	
	Intermediate beam							
	Formwork	*390.53*	SF	$	5.45	$	2,126.44	
	(Rebar)	*868.25*	Lbs	$	2.62	$	2,273.56	
	Concrete	*4.62*	CY	$	347.38	$	1,604.90	
	Cap beam							
	Formwork	*390.53*	SF	$	5.45	$	2,126.44	
	(Rebar)	*868.25*	Lbs	$	2.62	$	2,273.56	
	Concrete	*4.62*	CY	$	347.38	$	1,604.90	
	Staircase							
	8" Block walls	*505.55*	SY	$	66.00	$	33,366.30	
	Rebar #4 @ 24"c.c.	*2089.59*	Lbs	$	2.62	$	5,470.55	
	Rebar #4 (H)	*1139.78*	Lbs	$	2.62	$	2,983.94	
	Corefill Concrete	*26.95*	CY	$	347.60	$	9,367.82	
	Fairface	*1011.1*	SY	$	16.50	$	16,683.15	
	Painting	*1011.1*	SY	$	11.00	$	11,122.10	
7.3	**Level 2**	**1**	**L.S.**	**$**	**278,138.90**	**$**	**278,138.90**	
	Internal							
	8" Block walls	*959.71*	SY	$	72.60	$	69,674.95	
	Rebar #4 @ 24"c.c.	*3881.08*	Lbs	$	2.88	$	11,176.73	
	Rebar #4 (H)	*2219.13*	Lbs	$	2.88	$	6,390.65	
	Corefill Concrete	*52*	CY	$	382.36	$	19,882.72	
	Fairface	*1919.42*	SY	$	18.15	$	34,837.47	
	Painting	*1919.42*	SY	$	12.10	$	23,224.98	
	Intermediate beam							
	Formwork	*770.72*	SF	$	5.99	$	4,616.23	
	(Rebar)	*1713.5*	Lbs	$	2.88	$	4,935.57	
	Concrete	*9.1*	CY	$	382.12	$	3,477.27	
	Cap beam							
	Formwork	*770.72*	SF	$	5.99	$	4,616.23	
	(Rebar)	*1713.5*	Lbs	$	2.88	$	4,935.57	
	Concrete	*9.1*	CY	$	382.12	$	3,477.27	
	Staircase							
	8" Block walls	*505.55*	SY	$	72.60	$	36,702.93	
	Rebar #4 @ 24"c.c.	*2089.59*	Lbs	$	2.88	$	6,017.60	
	Rebar #4 (H)	*1139.78*	Lbs	$	2.88	$	3,282.34	
	Corefill Concrete	*26.95*	CY	$	382.36	$	10,304.60	
	Fairface	*1011.1*	SY	$	18.15	$	18,351.47	
	Painting	*1011.1*	SY	$	12.10	$	12,234.31	
7.4	**Level 3**	**1**	**L.S.**	**$**	**370,903.78**	**$**	**370,903.78**	
	Internal							
	8" Block walls	*1359*	SY	$	79.86	$	108,529.74	
	Rebar #4 @ 24"c.c.	*5546.25*	Lbs	$	2.88	$	15,972.09	
	Rebar #4 (H)	*3208.75*	Lbs	$	2.88	$	9,240.56	
	Corefill Concrete	*71.2*	CY	$	382.36	$	27,224.03	
	Fairface	*2718*	SY	$	18.15	$	49,331.70	
	Painting	*2718*	SY	$	12.10	$	32,887.80	
	Intermediate beam							
	Formwork	*945.94*	SF	$	6.59	$	6,232.28	
	(Rebar)	*1820*	Lbs	$	3.17	$	5,766.57	
	Concrete	*9.68*	CY	$	420.33	$	4,068.79	
	Cap beam							
	Formwork	*945.94*	SF	$	6.59	$	6,232.28	
	(Rebar)	*1820*	Lbs	$	3.17	$	5,766.57	

	Concrete	*9.68*	CY	$	420.33	$ 4,068.79	
	Staircase						
	8" Block walls	*505.55*	SY	$	79.86	$ 40,373.22	
	Rebar #4 @ 24"c.c.	*2089.59*	Lbs	$	3.17	$ 6,619.36	
	Rebar #4 (H)	*1139.78*	Lbs	$	3.17	$ 3,610.57	
	Corefill Concrete	*26.95*	CY	$	420.60	$ 11,335.06	
	Fairface	*1011.1*	SY	$	19.97	$ 20,186.61	
	Painting	*1011.1*	SY	$	13.31	$ 13,457.74	
7.5	**Level 4**	**1**	**L.S.**	**$**	**97,465.12**	**$ 97,465.12**	
	Internal						
	8" Block walls	*383.4*	SY	$	87.85	$ 33,680.16	
	Rebar #4 @ 24"c.c.	*1800*	Lbs	$	3.17	$ 5,702.00	
	Rebar #4 (H)	*720*	Lbs	$	3.17	$ 2,280.80	
	Corefill Concrete	*20.38*	CY	$	420.60	$ 8,571.75	
	Fairface	*766.8*	SY	$	19.97	$ 15,309.16	
	Painting	*766.8*	SY	$	13.31	$ 10,206.11	
	Staircase						
	8" Block walls	*103.87*	SY	$	87.85	$ 9,124.56	
	Rebar #4 @ 24"c.c.	*490*	Lbs	$	3.48	$ 1,707.43	
	Rebar #4 (H)	*196.25*	Lbs	$	3.48	$ 683.84	
	Corefill Concrete	*5.61*	CY	$	462.66	$ 2,595.50	
	Fairface	*207.74*	SY	$	21.96	$ 4,562.28	
	Painting	*207.74*	SY	$	14.64	$ 3,041.52	
8	**Metal Structure**	**1**	**L.S.**	**$**	**13,229,094.00**	**$ 13,229,094.00**	**$ 13,229,094.00**
8.1	**Metal Structure Supply and install**	**1**	**L.S.**	**$**	**13,229,094.00**	**$ 13,229,094.00**	
	Supply of Prefabricated structure delivered to site with all components and tools inclusive of assembling supervisor.	*50319*	SF	$	245.00	$ 12,328,155.00	
	Erections of verticals (sides and columns)	*37968*	SF	$	6.50	$ 246,792.00	
	Erections of intermediate slab and roof	*100638*	SF	$	6.50	$ 654,147.00	
9	**Ceilings**	**1**	**L.S.**	**$**	**347,065.00**	**$ 347,065.00**	**$ 347,065.00**
9.1	**Level 0**	**1**	**L.S.**	**$**	**111,820.00**	**$ 111,820.00**	
	Concrete fair face	*5591*	SY	$	10.00	$ 55,910.00	
	Painting of fair face	*5591*	SY	$	10.00	$ 55,910.00	
9.2	**Level 1**	**1**	**L.S.**	**$**	**92,015.00**	**$ 92,015.00**	
	Plaster	*1057*	SY	$	35.00	$ 36,995.00	
	Painting of plaster	*1057*	SY	$	10.00	$ 10,570.00	
	Gypsum board ceiling	*635*	SY	$	60.00	$ 38,100.00	
	Painting of gypsum board ceiling	*635*	SY	$	10.00	$ 6,350.00	
9.3	**Level 2**	**1**	**L.S.**	**$**	**77,670.00**	**$ 77,670.00**	
	Plaster	*1250*	SY	$	35.00	$ 43,750.00	
	Painting of plaster	*1250*	SY	$	10.00	$ 12,500.00	
	Gypsum board ceiling	*306*	SY	$	60.00	$ 18,360.00	
	Painting of gypsum board ceiling	*306*	SY	$	10.00	$ 3,060.00	
9.4	**Level 3**	**1**	**L.S.**	**$**	**65,560.00**	**$ 65,560.00**	
	Plaster	*1250*	SY	$	35.00	$ 43,750.00	
	Painting of plaster	*1250*	SY	$	10.00	$ 12,500.00	

	Gypsum board ceiling	*133*	SY	$ 60.00	$ 7,980.00	
	Painting of gypsum board ceiling	*133*	SY	$ 10.00	$ 1,330.00	
10	**Services**	**1**	**L.S.**	**$ 5,290,000.00**	**$ 5,290,000.00**	**$ 5,290,000.00**
10.1	**Mechanical AC**	**1**	**L.S.**	**$ 2,190,000.00**	**$ 2,190,000.00**	
	Material	*1*	L.S.	$ 1,740,000.00	$ 1,740,000.00	
	Installation	*1*	L.S.	$ 450,000.00	$ 450,000.00	
10.2	**Electrical (internal & external)**	**1**	**L.S.**	**$ 2,005,000.00**	**$ 2,005,000.00**	
	Material	*1*	L.S.	$ 1,255,000.00	$ 1,255,000.00	
	Installation	*1*	L.S.	$ 750,000.00	$ 750,000.00	
10.3	**Plumbing**	**1**	**L.S.**	**$ 1,095,000.00**	**$ 1,095,000.00**	
	Material, finishes & equipment	*1*	L.S.	$ 845,000.00	$ 845,000.00	
	Installation	*1*	L.S.	$ 250,000.00	$ 250,000.00	
11	**External Works**	**1**	**L.S.**	**$ 3,334,332.39**	**$ 3,334,332.39**	**$ 3,334,332.39**
11.1	**Approach Steps**	**1**	**L.S.**	**$ 489,495.39**	**$ 489,495.39**	
	Piles to access ramp	**36**	**No.**	**$ 1,560.59**	**$ 56,181.24**	
	Supply of Pile	36	No.	$ 1,160.59	$ 41,781.24	
	Install Pile	*36*	No.	$ 286.00	$ 10,296.00	
	Recording of Pile	*36*	No.	$ 39.00	$ 1,404.00	
	Cutting of pile	36	No.	$ 75.00	$ 2,700.00	
	Double Pile Caps	**18**	**NO**	**$ 1,765.56**	**$ 31,780.06**	
	Excavation	*54*	CY	$ 25.00	$ 1,350.00	
	Backfill	*24*	CY	$ 20.00	$ 480.00	
	Blinding	*3.3*	CY	$ 265.32	$ 875.56	
	Formwork	*1043*	SF	$ 4.95	$ 5,162.85	
	(Rebar)	*5269*	Lbs	$ 2.38	$ 12,542.85	
	Concrete	*36*	CY	$ 315.80	$ 11,368.80	
	Ground floor beams	**942**	**L.f.**	**$ 79.48**	**$ 74,873.85**	
	Excavation	*66.5*	CY	$ 25.00	$ 1,662.50	
	Backfill	*15*	CY	$ 20.00	$ 300.00	
	Blinding	*13.5*	CY	$ 265.32	$ 3,581.82	
	Formwork	*2590*	SF	$ 4.95	$ 12,820.50	
	(Rebar)	*14850*	Lbs	$ 2.38	$ 35,350.43	
	Concrete	*67*	CY	$ 315.80	$ 21,158.60	
	Foundation wall to make up level	**628**	**SY**	**$ 132.79**	**$ 83,390.44**	
	Block work 8"	*628*	SY	$ 60.00	$ 37,680.00	
	Rebar #4	*2688*	Lbs	$ 2.38	$ 6,397.44	
	Concrete corefill	*35*	CY	$ 315.80	$ 11,053.00	
	Plaster finish Outside	*628*	SY	$ 35.00	$ 21,980.00	
	Painting outside	*628*	SY	$ 10.00	$ 6,280.00	
	Slab and steps	**994**	**SY**	**$ 196.15**	**$ 194,975.80**	
	General formwork	*1973*	SF	$ 5.00	$ 9,865.00	
	General Soffit formwork	*8949*	SF	$ 7.00	$ 62,643.00	
	Concrete for slab & Steps	*175*	CY	$ 315.80	$ 55,265.00	
	Rebar	*24060*	Lbs.	$ 2.38	$ 57,262.80	
	Finishing	*994*	SY	$ 10.00	$ 9,940.00	

	Railings complete	**176**	**SY**	**$**	**274.40**	**$**	**48,294.00**	
	Block work 4"	*176*	SY	$	60.00	$	10,560.00	
	Rebar #4	*1200*	Lbs	$	2.38	$	2,856.00	
	Concrete corefill	*10*	CY	$	315.80	$	3,158.00	
	Plaster finish Outside	*352*	SY	$	35.00	$	12,320.00	
	Painting outside	*352*	SY	$	10.00	$	3,520.00	
	Pipe grab	*397*	L.F.	$	40.00	$	15,880.00	
11.2	**Recreational area and site**	**1**	**L.S.**	**$**	**2,219,837.00**	**$**	**2,219,837.00**	
	Slab on Grade	**14279**	**SY**	**$**	**119.29**	**$**	**1,703,357.00**	
	Backfill (sand 6")	*3165*	CY	$	42.00	$	132,930.00	
	Backfill (crushed stone 4")	*2109*	CY	$	65.00	$	137,085.00	
	Slab on Grade	*14279*	SY	$	90.00	$	1,285,110.00	
	Finishes	*14279*	SY	$	8.00	$	114,232.00	
	Paiting lines	*8500*	L.f.	$	4.00	$	34,000.00	
	Drains	**1326**	**L.F.**	**$**	**188.33**	**$**	**249,730.00**	
	Construct reinforced concrete drain	*1326*	L.F.	$	125.00	$	165,750.00	
	Grill to cover drain (3 feet interval)	*221*	No.	$	380.00	$	83,980.00	
	Fence	**2134**	**L.F.**	**$**	**125.00**	**$**	**266,750.00**	
	Fence footing	*2134*	L.F.	$	45.00	$	96,030.00	
	chainlink fence (8' high)	*2134*	L.F.	$	80.00	$	170,720.00	
11.3	**Provisional Sums for external fascia**	**1**	**L.S.**	**$**	**625,000.00**	**$**	**625,000.00**	
	Front	1	L.S	$	250,000.00	$	250,000.00	
	Sides	*1*	L.S	$	125,000.00	$	125,000.00	
	Provisional sum for other floor finishes	*1*	L.S	$	250,000.00	$	250,000.00	
12	**Miscellaneous items**	**1**	**L.S.**	**$**	**1,370,000.00**	**$**	**1,370,000.00**	**$ 1,370,000.00**
12.1	**Sporting Goods**	**1**	**L.S.**	**$**	**1,370,000.00**	**$**	**1,370,000.00**	
	Score board	1	L.S	$	200,000.00	$	200,000.00	
	3 Court layout & Accessories	*1*	L.S.	$	350,000.00	$	350,000.00	
	Lockers	*1*	L.S.	$	100,000.00	$	100,000.00	
	Stage & AV equipment	*1*	L.S.	$	400,000.00	$	400,000.00	
	Seating and telescopic Bleachers	*4000*	No.	$	80.00	$	320,000.00	
	Sub-total							**$ 30,940,261.34**
13	**Contingency**	**1**	**L.S.**	**$**	**2,000,000.00**	**$**	**2,000,000.00**	**$ 2,000,000.00**
						$	**2,000,000.00**	
					Total (Before Duties and Taxes)			**$32,940,261.34**

Belize City Convention Center Project Design Methodology Statement

DESIGN CODES
Structural design will be based on good engineering practice and the following primary codes:
"Minimum Design Loads for Buildings and Other Structures ASCE7-10"
"International Building Code" 2009 Edition"
"Building Code Requirements for Structural Concrete ACI318"

STRUCTURAL DESIGN STANDARDS
Wind Load: Design to resist 160mph sustained wind loading.
Seismic Load: Design will be in accordance to ASCE 7:2009 for accelerations of 40%g (0.2 S) and 15%g (1.0 S) Site classification will be taken as be E (table 1615.1.1).
Live Loads: Design will be in accordance with IBC recommendations consistent with the occupancy category.

STRUCTURAL CONCEPT
The building will be based on a structurally optimized steel frame, which will be designed and fabricated by a fully accredited international supplier. All hot rolled sections will be hot dip galvanized to resist corrosion and minimize maintenance costs.

ROOF
The roof will be based on use of parabolic steel trusses designed to minimize lateral wind loads. These will be erected progressively with the main framing. Roof cladding will be high insulation double skin steel profile sheeting.

STRUCTURAL FRAMING
Framing will be provided by hot rolled steel "I" sections and all joints bolted using high strength bolts.

WALL CLADDING
Wall cladding will be double profile steel skin composite panels with high insulation value to minimize air conditioning load.

ELEVATED SLABBING
Elevated slabbing and bleacher steps will be formed from cast concrete supported by galvanized deep profile steel decking fixed to the main framing.

GROUND FLOOR SLABBING
It is considered undesirable to remove the existing slab on grade. This will be used to support a layer of lightweight fill, which in turn will support a new cast concrete slabbing designed to sustain traffic loading.

FOUNDATION
The main steel stanchions will be founded on stub columns supported on pile caps. Pile caps and the number of supporting piles will be sized based on the factored reactions loads obtained from analysis of the steel structure under load. All major pile caps will be tied together in orthogonal directions by the use of reinforced concrete ground beams. Reinforced concrete piles will be designed to sustain ultimate loads of 100 tons assuming end bearing only. The planned standard pile length is 35ft.

ENTRANCE TERRACING
The main entrance to the facility will use series of steps and terracing. These will be of reinforced and precast concrete construction and be supported on pile caps similar to the main building. The terraced area will be structurally independent of the main building. Opportunity will be taken to incorporate a bulk water storage tank, which will be used to harvest rainwater collected from the building roof, which will be designated for fire protection and general non-potable use within the building, thus reducing dependence on public water supply. The tank will provide storage for approximately 140,000 gallons.

PARKING
The size of the building footprint has increased as well as the overall parking on site. Additionally, the parking spaces are wider and longer than before, allowing a broader range of vehicles able to park under the building. The drive lanes also meet codes for this type of structure.

COST
The turnkey cost of the redesign is saving the Government of Belize approximately eight million plus dollars to date. This is done using different materials and value engineering along with a smarter architectural design. In general we are offering all that was offered previously with additional features that make the project a more viable and revenue generating building.

RESTROOMS & SEATING
One of the design features is the size of the restrooms. After extensive research of successful arenas, it was concluded that arenas that have excessive restrooms are more successful. This allows patrons to spend less time in bathroom lines and more time watching the game. The other design feature of note is the seating. We have allowed for individual seating as compared to bench style seating. With designated seating, more people will be willing to leave their seats for concession purchases knowing that they can come back to their specific seat.

WATER
The building will be able to maintain running water for restroom facilities if needed during an emergency. This is due to 140,000 gallons of water in tanks incorporated in the design for rain collection. This also allows cost savings throughout the months by minimizing the need for purchased water.

ADA and FIRE ESCAPE
The building is equipped with 9 exits that allow the entire building to be evacuated within 8 minutes. It is also equipped with handicap accessibility, ramps and safe zones as per code.

STAGE
By having some retractable seating on the lower level, the design allows for up to 5,000 people capacity during an event. The stage is a complete assembled professional stage with adjustable columns and trusses, which can accommodate international artists with all of their lighting and sound systems.

SERVICE LIFT
There will be a service lift, which can be used for event preparation. We are planning on making it big enough to hold a small vehicle in the event that a car show needs to be hosted there. In any event, it will be large enough for all types of servicing.

SEATING
We have managed to add more seating, bringing the total to 4,000 designated seats for games and 5,000 for events. Seats are individual and numbered per row.

OTHER SYSTEMS
The building incorporates a speaker system designed specifically for the arena, which will allow proper disbursement of the PA system. The building is also equipped with the scoreboard and all other systems necessary to host an event.

ADDITIONAL ROOMS
The new design includes post game rooms, media rooms, additional square foot above the administration building, and more concession space.

COURTS
In addition to hosting a professional game, the court area is large enough to host 3 simultaneous practice courts indoor. This allows for more use of the space by more athletes. There are 2 more courts outside for public use as well.

ANCILLARY FEATURES

On the site, we have designated a 5 on 5-football field for public use as well. There are two 50-meter running tracks, a skateboard park, an exterior gym plaza, and an exterior stage area. On the river side, there is also a water taxi pickup that would allow for new small business establishments to pick up and drop off people using the river; a fast and new transportation feature for the city. Also featured is a helipad, which is a FIBA regulation, for emergency use.

BUSES

There is designated parking for team buses, city buses, and taxi parking that allows for the proper flow of traffic throughout the area.

FUTURE USES

The interior height can accommodate proper volleyball use (36 feet clear) for competition. The overall design with additional space allows the arena to host competition events and not only a team on team event. It qualifies for FIBA world championship for women, U-21 and U-19 world championships for men and women events.