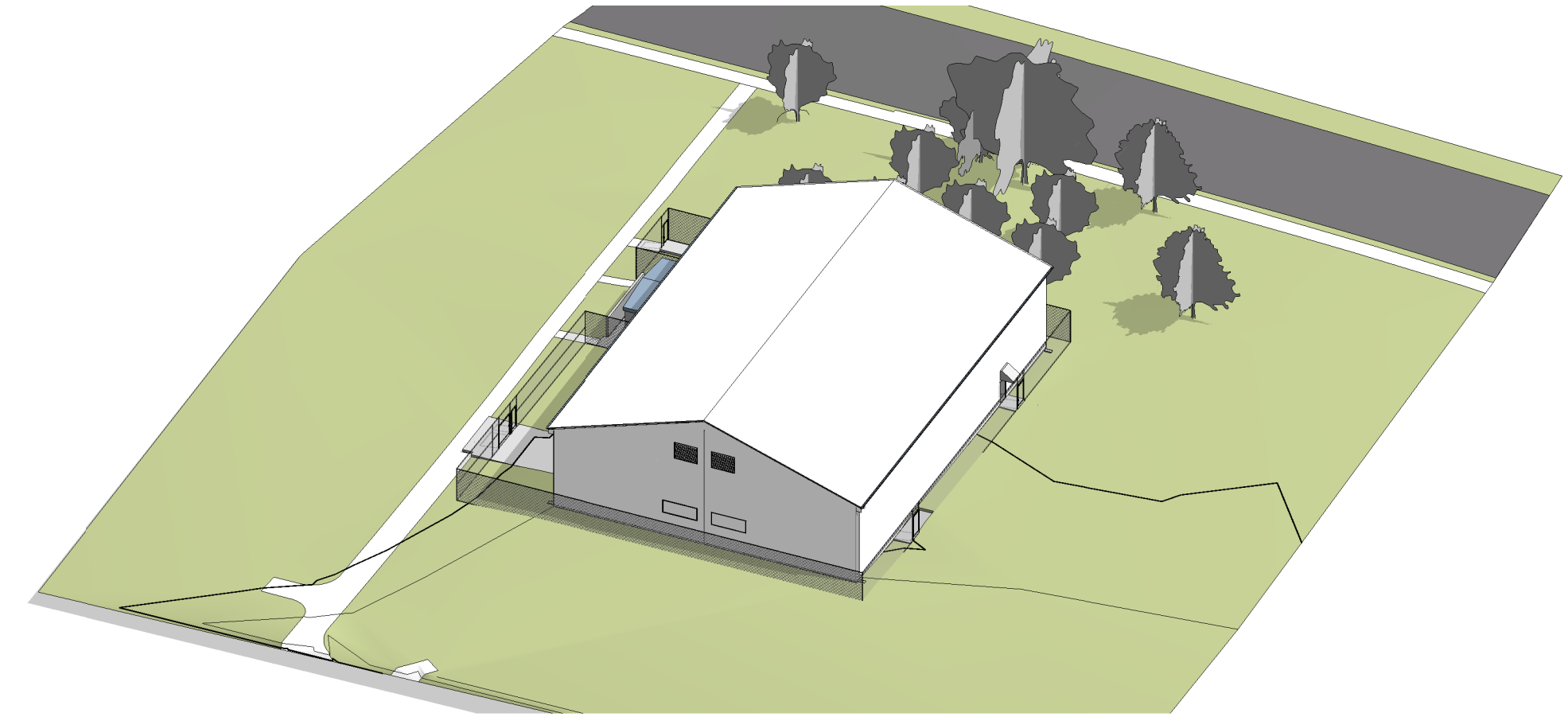
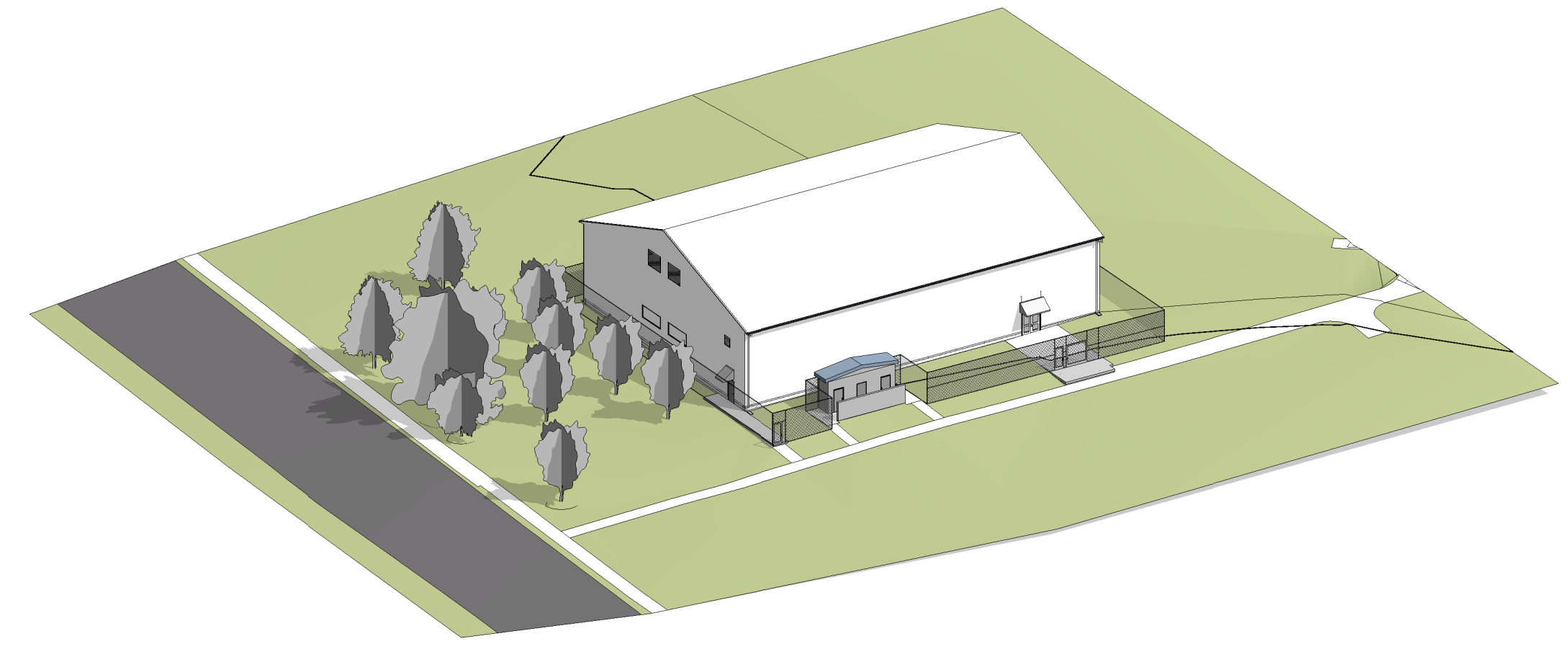


# GUNSTON PARK

## ENCLOSED ATHLETIC FACILITY IMPROVEMENTS

### BID SET



ARLINGTON  
VIRGINIA

DEPARTMENT OF PARKS,  
RECREATION AND  
CULTURAL RESOURCES

Park Development Division  
2100 Clarendon Boulevard, Suite  
414  
Arlington, VA 22201  
Phone: 703.228.3323  
Fax: 703.228.3328

**21-DPR-ITB-356**

Project Name and Location

**Gunston Park  
Enclosed  
Athletic Facility  
Improvements**

28th Street South  
Arlington, VA

Sheet Title

**COVER SHEET**

Approvals Date

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Date	Revisions
5/26/20	Permit submission
4/26/21	Bid Set

Designed: \_\_\_\_\_  
Drawn: **KN**  
Checked: **BV**

Filename: \_\_\_\_\_  
Plotted: \_\_\_\_\_

Scale: AS INDICATED  
Date: **5/26/20**

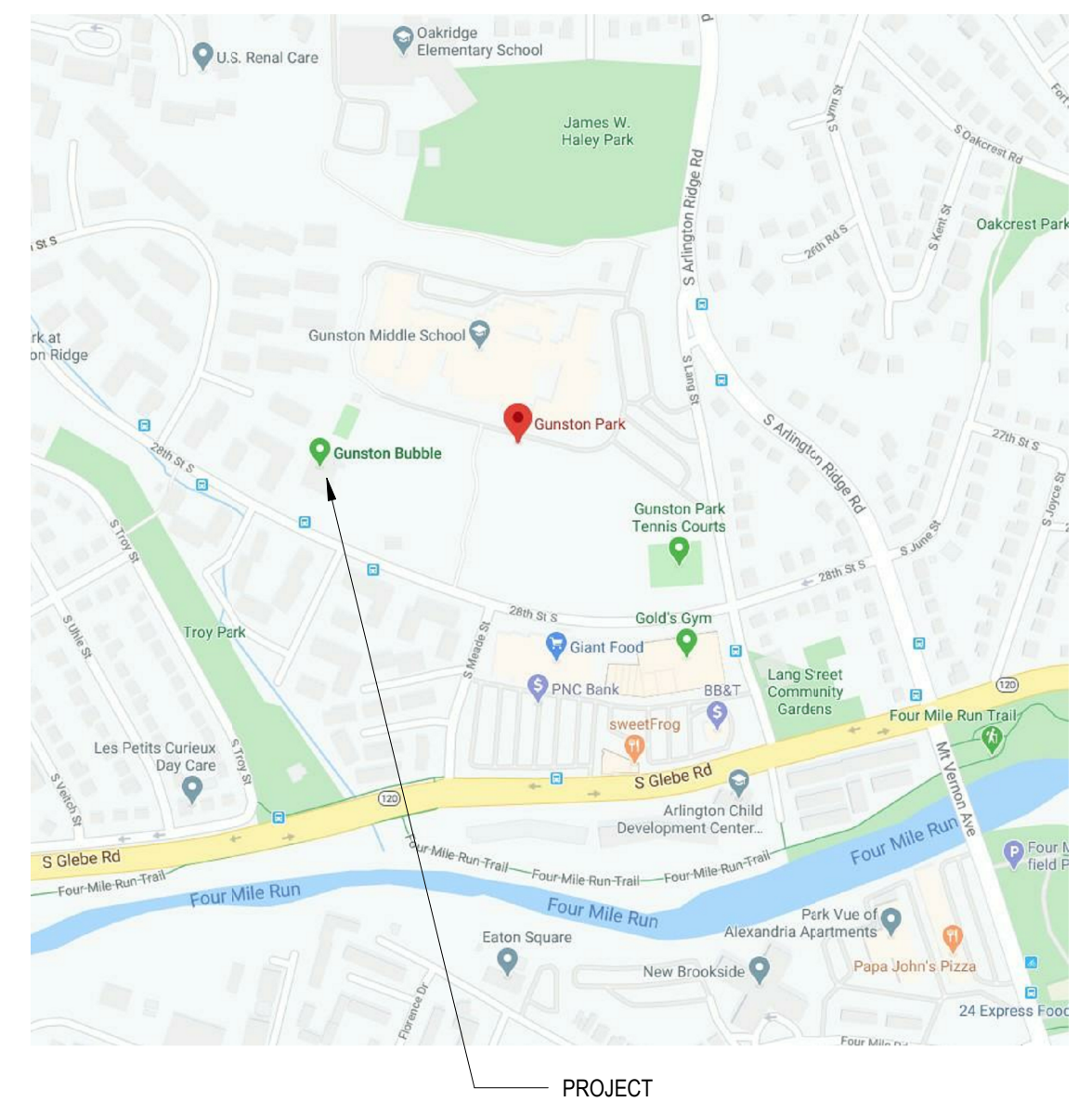


**PERMIT SUBMISSION**

Sheet Number:

**A-001**

#### LOCATION MAP



#### AERIAL VIEW (EXISTING)



#### DRAWING SYMBOLS

	EXTERIOR ELEVATION REFERENCE		SPOT ELEVATION
	BUILDING / WALL SECTION		REVISION
	INTERIOR ELEVATION REFERENCE		ROOM NAME & NUMBER
	DETAILS		DOOR NUMBER
	COLUMN REFERENCE		WINDOW / LOUVER / GLASS TYPE
	PARTITION TYPE		KEY NOTE (First number indicates specification division)
	CEILING HEIGHT A.F.F.		DRAWING TITLE
	CEILING MATERIAL		DRAWING TITLE BACK REFERENCED

#### MATERIAL SYMBOLS

	CONCRETE		STEEL
	BATT INSULATION		ENGINEERED FILL
	RIGID INSULATION		SEALANT / CAULKING
	WOOD BLOCKING		FINISH WOOD / HARD WOOD
	CUT BLOCKING / SHIM		BRICK
	CONCRETE MASONRY		GYPSUM

#### ABBREVIATIONS

AB ANCHOR BOLT	CAB CABINET	DN DOWN	FR FLASHING	JAN JANITOR	MTD MOUNTED	QT QUARRY TILE	STOR STORAGE	W/O WITHOUT
ABV ABOVE	CEM CEMENT	DR DOOR	FRFP FLUORESCENT	JBE JOIST BEARING ELEVATION	N, NO NORTH	QTY QUANTITY	STRUCT STRUCTURAL	WD WOOD
ACC ACCESS	CF CUBIC FOOT (FEET)	DS DOWN SPOUT	FRT FRAME	JST JOIST	NIC NOT IN CONTRACT	RCP REFLECTED CEILING PLAN	SUSP SUSPENDED	WH WATER HEATER
ACOUS ACOUSTICAL	CI CAST IRON	DW DISHWASHER	FT FIRE PROOFING	JT JOINT	NRC NOISE REDUCTION COEFFICIENT	RD ROOF DRAIN	SW SWITCH	WP WATERPROOFING
ACP ACOUSTICAL PANEL CEILING	CJ CONTROL JOINT	DWGS DRAWINGS	FTG FIRE RETARDANT TREATED	KD KNOCK DOWN	NTS NOT TO SCALE	REF REFERENCE	SYS SYSTEM	WR WATER RESISTANT
AD AREA DRAIN	CL_CLO CLOSET	DWR DRAWER	FUR FOOTING	KIT KITCHEN	OA OVERALL	REFG REFRIGERATOR	T&G TONGUE & GROOVE	WT WEIGHT
ADJ ADJUSTABLE	CLG CEILING	E EAST	FVC FURRING	KO KNOCK OUT	OC ON CENTER	REINF REINFORCED (ING)	T.O.STL TOP OF STEEL	
AFF ABOVE FINISH FLOOR	CLL CONTRACT LIMIT LINE	EA EACH	GA GAUGE	LAM LAMINATED	OD OUTSIDE DIAMETER	REQ REQUIRED	TB TACK BOARD	
AHU AIR HANDLING UNIT	CLR CLEAR	EJ EXPANSION JOINT	GALV GALVANIZED	LAV LAVATORY	OFCI OWNER FURNISHED / CONTRACTOR	RES RESILIENT	TBR TO BE REMOVED	
ALT ALTERNATE	CMU CONCRETE MASONRY UNIT	EL ELEVATION	GB GYPSUM BOARD	LIN LINEAR	OFF OFFICE	REV REVISE (REVISION)	TEL TELEPHONE	
ALUM ALUMINUM	CNR CORNER	ELEC ELECTRICAL	GC GENERAL CONTRACTOR	LP LOWPOINT	OH OVERHEAD	RO ROUGH OPENING	TEMP TEMPERED	
ANC ANCHORS	CO CLEAN OUT	ELEV ELEVATION	GL GLASS	LT LIGHT	OP HD OPPOSITE HAND	RTU ROOF TOP UNIT	THK THICK	
APPROX APPROXIMATE	COL COLUMN	ENCL ENCLOSURE	GR GRADE	LW LIGHTWEIGHT	OPG OPENING	SC SOLID CORE	THR THRESHOLD	
ARCH ARCHITECT	CONC CONCRETE	ENT ENTRANCE	GWB GYPSUM WALLBOARD	MACH MACHINE	OPP OPPOSITE	SCHED SCHEDULE	TLT TOILET	
AUTO AUTOMATIC	CONST CONSTRUCTION	EQ EQUAL		MAINT MAINTENANCE	P-LAM PLASTIC LAMINATE	SCHWD SOLID CORE WOOD DOOR	TO TOP OF	
AVG AVERAGE	CONT CONTINUOUS	EQ EQUIP		MATL MATERIAL	PAR PARTIAL	SECT SECTION	TOS TOP OF SLAB	
B BATHROOM	CPT CARPET	ETR EXISTING TO REMAIN		MAX MAXIMUM	PART PARTITION	SF SQUARE FOOT (FEET)	TV TELEVISION	
BD BEAD	CS COURSES	EWC ELECTRIC WATER COOLER		MB MARKER BOARD	PEF PEDESTRIAN	SFPS STRETCHED FABRIC PNL. SYS	TYP TYPICAL	
BIT BITUMINOUS	CT CERAMIC TILE	EX EXISTING		MDF MEDIUM DENSITY FIBERBOARD	FLX FLEXGLASS	SHR SHOWER	UL UNDERWRITER'S LABORATORIES	
BLDG BUILDING	CTR CENTER	EXP EXPANSION		MECH MECHANICAL	PLYWD PLYWOOD	SHT SHEET	UNF UNFINISHED	
BLK BLOCK	CTSK COUNTER SUNK			MEMB MEMBRANE	PNL PANEL	SIM SIMILAR	UNO UNLESS NOTIFIED (NOTED)	
BLKG BLOCKING				MET METAL	POL POLISH (POLISHED)	SL SLIDING	UR UNRAIL	
BM BEAM				MEZ MEZZANINE	PR PAIR	SQ SQUARE	UTL UTILITY	
BO BY OWNER				MFR MANUFACTURER	PREFAB PREFABRICATED	SS, S.STL. STAINLESS STEEL	VCT VINYL COMPOSITE TILE	
BOT BOTTOM				MIN MINIMUM	PSF POUNDS PER SQUARE FOOT	SKK SERVICE SINK	VERT VERTICAL	
BRD BOARD				MISC MISCELLANEOUS	PT PAINT	STA STATION	VIF VERIFY IN FIELD	
BRKT BRACKET				MLDG MOLDING	PTD PAINTED	STD STANDARD		
BSL BUILDING SETBACK LINE				MO MASONRY OPENING		STL STEEL		
BSMT BASEMENT				MOD MODIFIED		STN STAIN		
BU BUILT UP								

# CODE ANALYSIS

## PROJECT DATA

OWNER: ARLINGTON COUNTY  
ADDRESS: 28 STREET SOUTH  
ARLINGTON, VA

## PROJECT DESCRIPTION

THE PROJECT INCLUDES EXTERIOR AND INTERIOR IMPROVEMENTS BUT NOT LIMITED TO  
- REMOVING THE EXISTING AIR SUPPORTED STRUCTURE AT THE EXISTING INDOOR SOCCER FIELD  
- PROVIDE A NEW MEMBRANE COVERED STRUCTURE OVER THE EXISTING SOCCER FIELD  
- PROVIDING NEW VENTILATION, HEATING AND LIGHTING SYSTEM;  
- THE NEW STRUCTURE WILL REDUCE THE FOOTPRINT OF THE EXISTING STRUCTURE. THERE IS NO CHANGE IN USE.

## APPLICABLE CODES

THE PROJECT IS DESIGNED UNDER THE FOLLOWING RULES AND REGULATIONS:

- 2015 VIRGINIA CONSTRUCTION CODE (WITH 2009 ANSI A117.1 FOR ACCESSIBILITY)
- 2015 ICC INTERNATIONAL BUILDING CODE
- 2011 NFPA NATIONAL ELECTRIC CODE
- 2015 ICC INTERNATIONAL MECHANICAL CODE
- 2015 ICC INTERNATIONAL PLUMBING CODE
- 2015 ICC INTERNATIONAL ENERGY CONSERVATION CODE

## ZONING INFORMATION

ZONING DISTRICT: S-3A  
ALLOWABLE BUILDING HEIGHT: 33'-9" (25'-0" PLUS 2.5' FOR EVERY FOOT THE BUILDING IS SET BACK BEYOND THE 10'-0" SIDE YARD SETBACK 33'-6" TO MIDPOINT OF GABLE  
ACTUAL HEIGHT: 33'-6" TO MIDPOINT OF GABLE  
SETBACK: 10' REQUIRED SIDE YARD, 13'-6" PROVIDED  
PARKING: NO CHANGE IN USE. PER THE PROVIDED GUNSTON MIDDLE SCHOOL DRAWINGS, 289 SPACES ARE PROVIDED ON SITE. 179 IS REQUIRED FOR THE SCHOOL. THE PROPOSED BUILDING HAS A RECREATION SPACE OF 6,621 SF WHICH WILL REQUIRE 23 PARKING SPACES (1 PER 300 SF). IN ADDITION ON STREET PARKING IS PROVIDED ADJACENT TO THE BUILDING

## USE AND OCCUPANCY CLASSIFICATION

A-3 USE GROUP  
THE BUILDING WILL NOT BE USED AS A SPECIAL AMUSEMENT BUILDING

## TYPE OF CONSTRUCTION

TYPE IIB PER SECTION 3102 "MEMBRANE STRUCTURES"

## SPRINKLER PROVIDED

NO. NOT REQUIRED.

## BUILDING HEIGHTS AND AREA CALCULATIONS

ALLOWABLE AREA PER FLOOR: 9,500 TABLE 506.2.  
AREA INCREASE PER 506.2.1  
SEE A003 FOR DIMENSIONS  
Aa=At + (Ns X Lf) Aa= 9500 + (9500 X .30); Aa= 9,500 + 2,850; Aa= 12,350  
Lf= (F/P .25) W/30, Lf= (273.25/496.5) 30/30, Lf= .30  
ACTUAL AREA= 10,580 SF  
ALLOWABLE HEIGHT: TABLE 504.3 55'-0"; TABLE 504.4 TWO STORIES  
ACTUAL HEIGHT: 33'-6 TO MID POINT OF GABLE; 1 STORY

## FIRE RESISTANCE RATING (IN HOURS)

TYPE II-B CONSTRUCTION	REQUIRED	PROVIDED
STRUCTURAL FRAME*	0	0
EXTERIOR BEARING WALLS	0	0
INTERIOR BEARING WALLS	0	0
EXTERIOR NON-BEARING WALLS	0	0
<5'	0	0
>5' <10'	0	0
>10' <30'	0	0
>30'	0	0
INTERIOR NON-BEARING WALLS	0	0
FLOOR CONSTRUCTION	0	0
ROOF CONSTRUCTION	0	0

## INTERIOR FINISHES

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY, TABLE 803.9, BASED ON NON-SPRINKLER RATING:

ROOMS & ENCLOSED SPACES: CLASS C

## MEANS OF EGRESS

BASED ON A NON-SPRINKLERED BUILDING:

EXIT ACCESS TRAVEL DISTANCE, TABLE 1016.1  
GROUP A-4 OCCUPANCY: 200 FEET  
COMMON PATH OF EGRESS TRAVEL: 75 FEET  
DEADEND CORRIDORS: 20'-0"  
EXIT COMPONENTS:  
OTHER ELEMENTS: 2 INCHES PER OCCUPANT

NUMBER OF EXITS: REQUIRED 2, PROVIDED 2

## ACCESSIBILITY

ADA ACCESSIBLE ENTRANCES AND EXITS ARE PROVIDED.

MODULAR ACCESSIBLE TOILETS ARE PROVIDED WITHIN 500' OF THE BUILDING.

## PLUMBING FIXTURES

THE PROJECT IS THE REBUILD OF THE EXISTING AIR SUPPORTED STRUCTURE. CURRENTLY TWO UNISEX MODULAR TOILET FACILITIES ARE LOCATED ON THE SAME LEVEL AND WITHIN 500' OF THE BUILDING.

A NEW DRINKING FOUNTAIN IS PROVIDED ON THE INTERIOR OF THE BUILDING.

THE ORIGINAL AIR SUPPORTED STRUCTURE WAS PERMITTED WITH A MAXIMUM OCCUPANT LOAD OF 49 PERSONS. A CODE MODIFICATION HAS BEEN SUBMITTED TO LIMIT OCCUPANCY TO 130 OCCUPANTS. THERE ARE 2 EXISTING SINGLE USE TOILET PER SECTION 403 OF THE INTERNATIONAL PLUMBING CODE THE PLUMBING FIXTURE RATIO FOR A-3 USE GROUP IS 1/125 FOR MALE AND 1/65 FOR FEMALE. THE PLUMBING FIXTURE REQUIREMENTS FOR A MAXIMUM OCCUPANCY OF 130 WILL BE MET.

## SPECIAL REQUIREMENTS

THE STRUCTURE IS TO COMPLY WITH SECTION 3102 MEMBRANE STRUCTURES.

## PRE ENGINEERED MEMBRANE STRUCTURE NOTES

THE PLANS, ELEVATION AND SECTIONS ILLUSTRATE THE DESIGN INTENT FOR THE PRE-ENGINEERED MEMBRANE STRUCTURE.

ARLINGTON COUNTY DEPARTMENT OF PARKS AND RECREATION WILL CONTRACT WITH A PRE-ENGINEERED BUILDING MANUFACTURER TO PROVIDE A BUILDING DESIGN FOR THE DESIGN INTENT OF THE STRUCTURE SHOWN IN THESE DOCUMENTS. THIS IS TO INCLUDE THE STEEL STRUCTURE OF THE BUILDING, MEMBRANE COVERING, SUPPORT OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS AND ACCESSORIES INCLUDING SCOREBOARDS. THE BASIS OF DESIGN MANUFACTURER IS CLEAR SPAN FABRIC STRUCTURES, 1395 JOHN FITCH BLVD, SOUTH WINDSOR, CT, 06074. CONTACT BRAD WILLIAMS 800.603.4445 x1241

THE GENERAL CONTRACTOR IS TO COORDINATE THE FABRICATION AND THE DELIVERY OF THE STRUCTURE WITH CLEAR SPAN. THE GENERAL CONTRACTOR IS TO PROVIDE THE INSTALLATION OF THE PRE-ENGINEERED STRUCTURE.

THE PRE-ENGINEERED BUILDING MANUFACTURER IS TO PROVIDE ENGINEERED SHOP DRAWINGS BY AN ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA.

THE MEMBRANE STRUCTURE IS TO BE COMPLIANT WITH LOCAL JURISDICTION CODES INCLUDING SECTION 3102 OF THE VUBC "MEMBRANE STRUCTURES" FOUNDATION DESIGN HAS BEEN INCLUDED IN THESE DOCUMENTS. THE PRE-ENGINEERED BUILDING MANUFACTURER IS TO PROVIDE REINFORCEMENTS AT THE BASE PLATE OF THE PRE-ENGINEERED BUILDING. STAMPED SHOP DRAWINGS BY AN ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA ARE TO BE PROVIDED FOR REVIEW PRIOR TO CONSTRUCTION OF FOUNDATIONS.

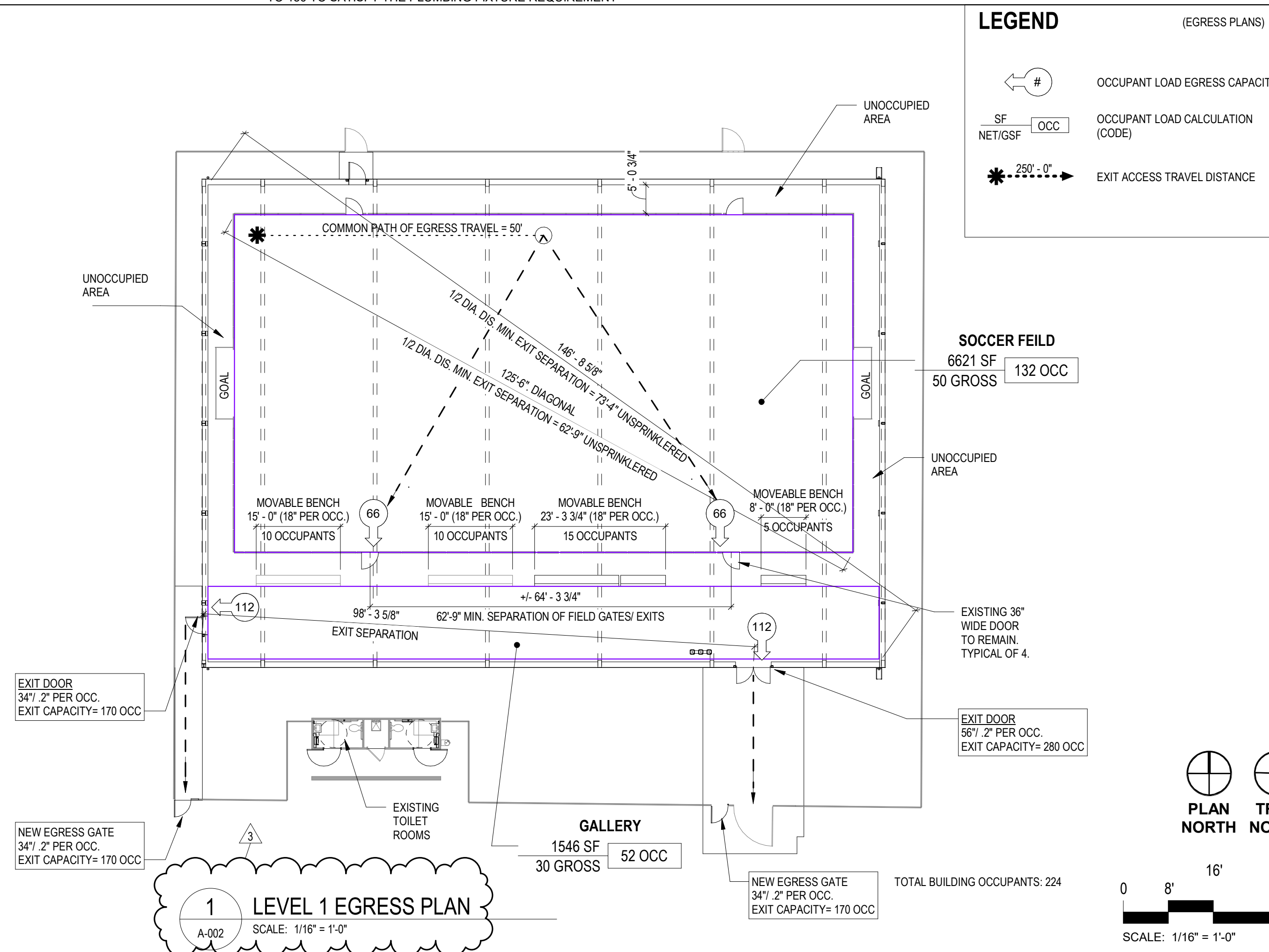
PROVIDE R-30 INSULATION IN WALLS AND ROOF WITH WHITE LINER. PROVIDE GUTTERS AND DOWNSPOUTS. PROVIDE STRUCTURAL FRAMING FOR OPENINGS OPENINGS FOR LOUVERS, DOORS, VENTS AND PENETRATIONS.

MEMBRANE FABRIC IS TO BE COATED PVC/PVD, DOUBLE FLUORANTIED PVDF, POLISHED, 290Z, 30MIL, WHITE COLOR, FLAME RESISTANCE NFPA 701 TEST 1 & 2, CFM TITLE 19.

REFER TO MEP DRAWINGS FOR ITEMS THAT NEED TO BE SUPPORTED FROM PRE ENGINEERED STRUCTURE.

## EGRESS PLAN

NOTE: THE ORIGINAL AIR SUPPORTED STRUCTURE WAS PERMITTED FOR A MAXIMUM OCCUPANCY OF 49 OCCUPANTS. THE USE OF THE BUILDING IS TO REMAIN THE SAME. THE PLAN BELOW DEMONSTRATES THAT EGRESS PER CURRENT CODE IS SATISFIED HOWEVER A CODE MODIFICATION HAS BEEN SUBMITTED TO LIMIT THE OCCUPANCY TO 130 TO SATISFY THE PLUMBING FIXTURE REQUIREMENT



# GENERAL NOTES

1. DO NOT SCALE DRAWINGS. INDICATED DIMENSIONS GOVERN OVER SCALED DIMENSIONS. SHOULD A CONFLICT ARISE BETWEEN INDICATED DIMENSIONS AND FIELD CONDITION, NOTIFY THE OWNER IMMEDIATELY PRIOR TO PROCEEDING WITH THE WORK.

1a. DIMENSION INDICATED AS "CLEAR" SHALL MEASURE FROM FINISH FACE TO FINISH FACE OF REFERENCED SURFACES. ALLOW SUFFICIENT SPACE BETWEEN SUBSTRATES FROM FINISH MATERIAL THICKNESS AND MOUNTING SPACE.

1b. DIMENSIONS REFERENCED FROM CENTERLINE OR CL SHALL BE MEASURED FROM THE CENTER OF THE REFERENCED ITEM.

1c. "VF" OR "+" INDICATED DIMENSIONS SHALL BE FIELD VERIFIED. WHEN ACTUAL FIELD DIMENSION VARY IN SUCH A WAY AFFECT ELEMENTS WITHIN THE STRING, NOTIFY THE OWNER IMMEDIATELY.

1d. DIMENSIONS MAY BE APPROXIMATE. VERIFY ALL DIMENSIONS IN FIELD. SEE ALSO LAYOUT NOTES ON PLAN SHEET.

2. COORDINATE CONSTRUCTION OPERATIONS OF EACH TRADE INVOLVED SO WORK MAY BE CARRIED OUT SMOOTHLY AND WITHOUT DELAY. COORDINATE WORK THAT DEPEND ON EACH OTHER FOR PROPER INSTALLATION, CONNECTION, AND FUNCTION.

3. INSTALL MATERIALS, EQUIPMENT, HARDWARE, AND OTHER ELEMENTS IN STRICT COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. COORDINATE LOCATION OF CONCEALED SUPPORTS FOR BLOCKING TO ENSURE PROPER INSTALLATION PRIOR TO CLOSING OF ALL WALLS AND CEILINGS

4. PRIOR TO FABRICATION AND INSTALLATION OF MATERIALS, FIELD MEASURE AND RECHECK MEASUREMENTS FOR PROPER FIT.

5. PROTECT CONSTRUCTION ALREADY IN PLACE TO AVOID DAMAGE BY ONGOING CONSTRUCTION.

6. ALL CONTRACTORS SHALL BE RESPONSIBLE FOR VISTING THE SITE AND EXAMING IN DETAIL. THE EXISTING CONDITIONS PRIOR TO SUBMITTING THE BID FOR THE WORK.

7. REQUIRED WORK OF A TRADE ME BE AFFECTED BY INFORMATION ON OTHER TRADE SHEETS. ALL BIDS SHALL BE BASED ON EXAMINATION OF A FULL SET OF DOCUMENTS.

8. THE INFORMATION CONTAINED HEREIN MAY REQUIRE ADJUSTMENT OR MODIFICATION TO CONFORM TO EXISTING CONDITIONS. IN CASES WHERE CHANGES IN DETAILS ARE NECESSARY, THESE DRAWINGS SHALL BE USED TO SHOW ONLY DESIGN INTENT.

9. ALL DAMAGE OF EXISTING CONSTRUCTION AND PROPERTY BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE WITH NEW MATERIALS TO MATCH EXISTING.

10. MANUFACTURER'S NAMES, MODEL NUMBERS AND FINISHES ARE FOR IDENTIFICATION PURPOSES ONLY. THE LISTING IS NOT INTENDED TO LIMIT SELECTION OF TOTAL EQUIVALENT PRODUCTS FROM OTHER MANUFACTURERS IF APPROVED BY OWNER.

11. A FULL AND COMPLETE JOB IS REQUIRED UNDER THIS CONTRACT. MATERIAL AND LABOR WHICH ARE RELATED TO THE WORK, BUT NOT NECESSARILY SPECIFICALLY INDICATED, AND WHICH ARE REASONABLY REQUIRED FOR A PROFESSIONALLY FINISHED JOB, SHALL BE PART OF THE WORK.

12. DIMENSION UNITS ARE ENGLISH UNITS, UNLESS NOTED OTHERWISE.

## DRAWING INDEX

REVISION	REVISION	REVISION	PERMIT SUBMISSION	Sheet #	Sheet Name
3	2	1			
01-General					
				A-001	COVER SHEET
				A-002	GENERAL NOTES, CODE AND DRAWING INDEX
				A-003	SITE PLAN
02-Landscape					
				LS-01	COVER SHEET
				LS-02	EXISTING CONDITIONS PLAN
				LS-03	DEMOLITION PLAN
				LS-04	EROSION AND SEDIMENT CONTROL NOTES
				LS-05	EROSION AND SEDIMENT CONTROL - PHASE 1 AND 2
				LS-06	EROSION AND SEDIMENT CONTROL DETAILS
				LS-07	SITE LAYOUT PLAN
				LS-08	PRE AND POST DEVELOPMENT LAND COVER MAP
				LS-09	WATER QUANTITY COMPUTATIONS
				LS-10	SITE DETAILS
04-Architectural					
				AD101	EXISTING/ DEMOLITION PLAN
				AD102	EXISTING/ DEMOLITION ROOF
				AD201	EXISTING/ DEMOLITION ELEVATIONS
				A-101	FLOOR PLAN
				A-102	ROOF PLAN
				A-201	BUILDING ELEVATIONS
				A-202	BUILDING ELEVATIONS
				A-211	BUILDING SECTIONS
				A-401	REFLECTED CEILING PLAN
				A-501	RESTROOMS PLANS AND ELEVATIONS
				A-711	DOOR SCHEDULE & BUILDING DETAILS
				A-712	DOOR DETAILS
05-Structural					
				S-001	DESIGN NOTES
				S-100	FOUNDATION PLAN
				S-300	SECTIONS AND DETAILS
				S-301	SECTIONS AND DETAILS
06-MEP					
				M-001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
				M-101	FLOOR PLAN DEMOLITION
				M-102	FLOOR PLAN NEW WORK
				M-301	SECTIONS AND RISERS
				M-501	DETAILS
				M-701	SCHEDULES
				M-801	CONTROLS
				E-001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
				E-101	FLOOR PLAN DEMOLITION
				E-102	FLOOR PLAN NEW WORK
				E-501	DETAILS
				E-601	RISERS AND SCHEDULES

ARLINGTON VIRGINIA

DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

Park Development Division  
2100 Clarendon Boulevard, Suite 414  
Arlington, VA 22201  
Phone: 703.228.3323  
Fax: 703.228.3328

21-DPR-ITB-356

Project Name and Location

Gunston Park Enclosed Athletic Facility Improvements

28th Street South  
Arlington, VA

Sheet Title

GENERAL NOTES, CODE AND DRAWING INDEX

Approvals Date

Department Director

Park Development Division Chief

Design Unit Supervisor

Date	Revisions
5/26/20	Permit submission
1/15/21	Revision 1 1
3/16/21	Revision 2 2
5/07/21	Revision 3 3

Designed:  
Drawn: KN  
Checked: BV

Filename:  
Plotted:

Scale: AS INDICATED  
Date: 5/26/20



PERMIT SUBMISSION

Sheet Number:

A-002

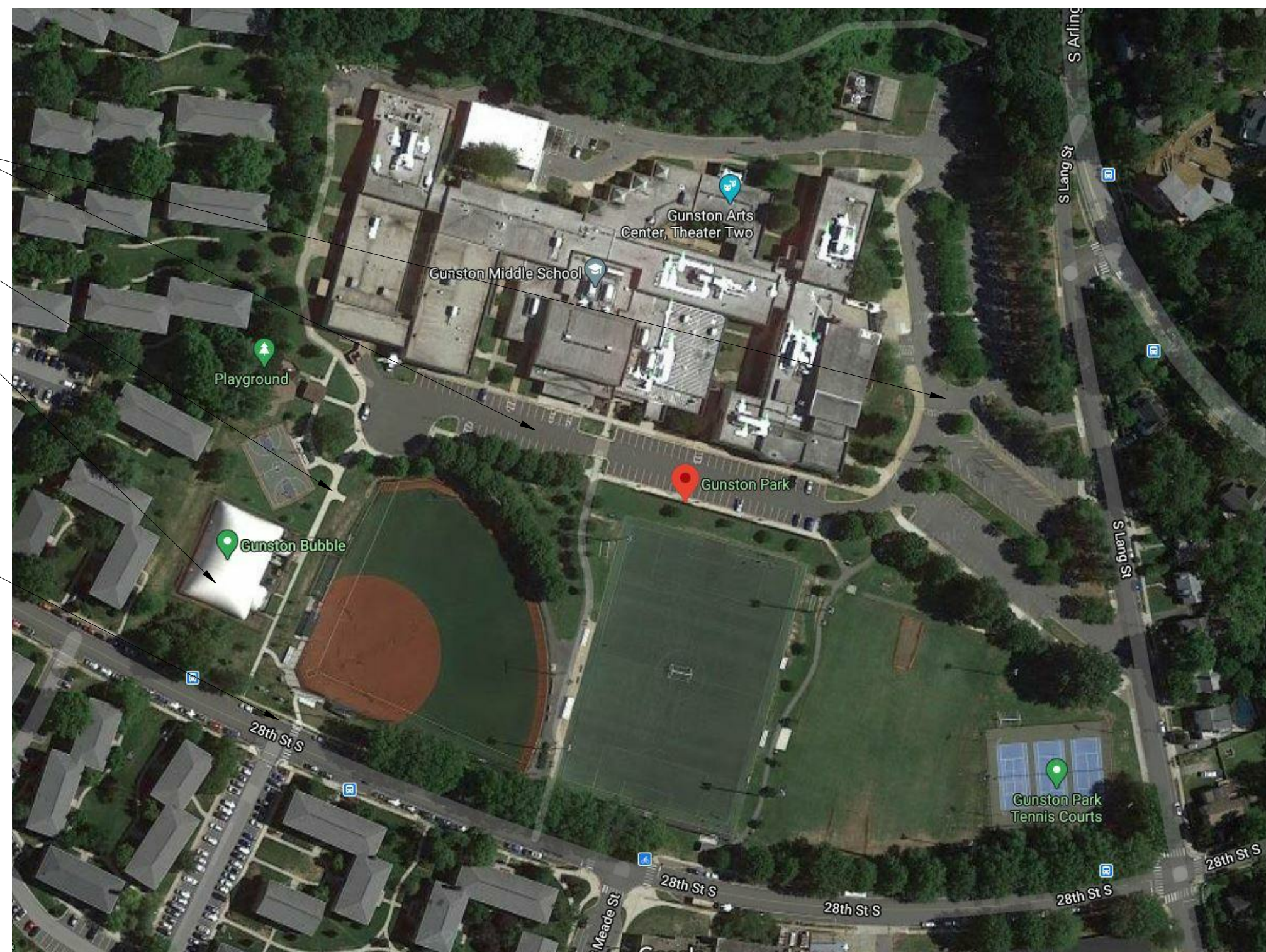
REFER TO MODIFICATION NUMBER CMOD2100005/ THE MAXIMUM OCCUPANT LOAD PERMITTED FOR THIS STRUCTURE IS 130 OCCUPANTS. POSTED LOAD SIGNAGE SHALL BE PROVIDED AT MAIN ENTRY. COMPLY WITH VCC 2015 SECTION 1004.3.

EXISTING PARKING-  
289 EXISTING  
SPACES PROVIDED

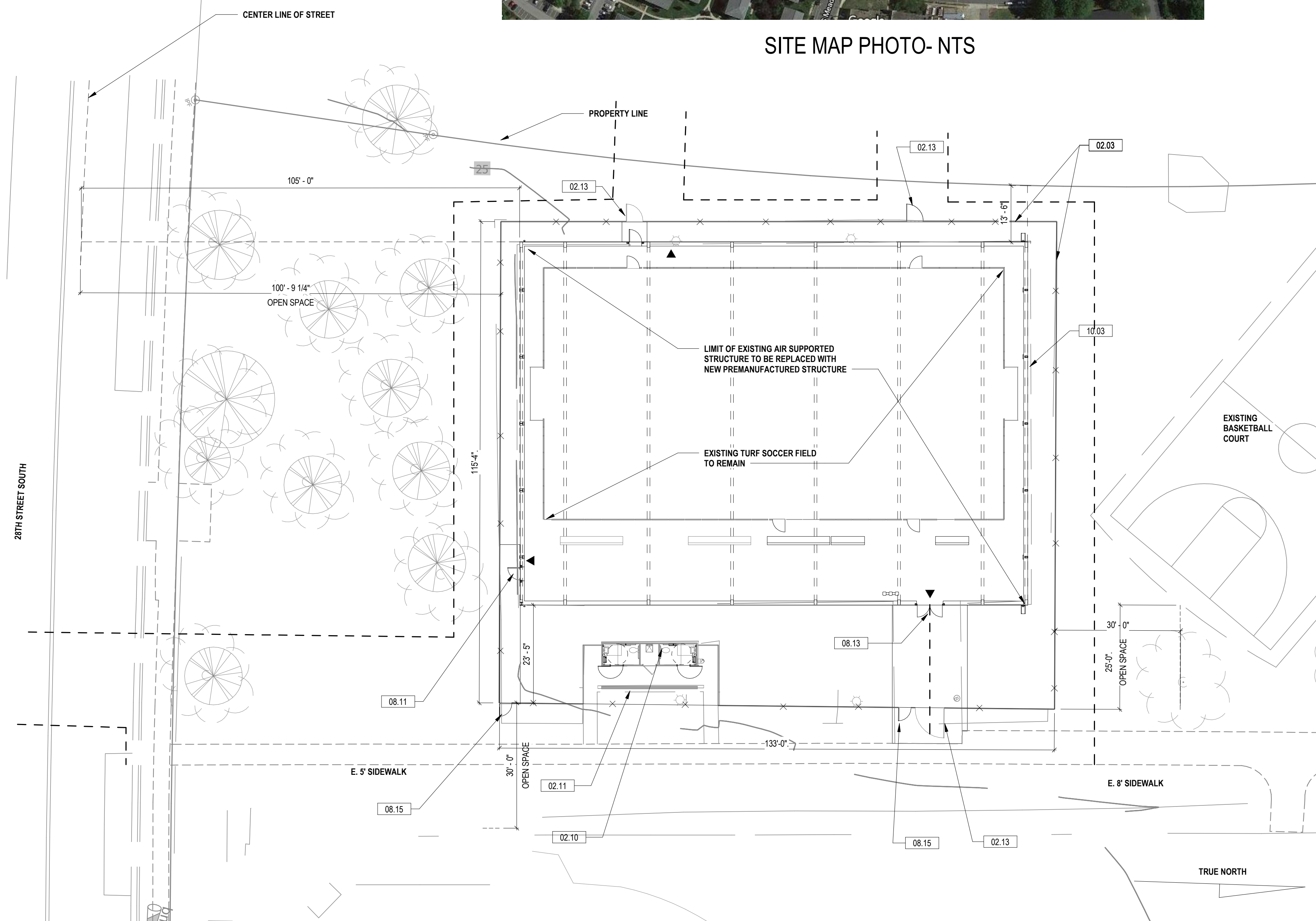
PATH FROM  
PARKING

PROJECT SITE

EXISTING STREET  
PARKING



SITE MAP PHOTO- NTS



1 ARCHITECTURAL SITE PLAN  
SCALE: 1/16" = 1'-0"

KEYNOTES

02.03	EXISTING CHAINLINK FENCE TO REMAIN, SEE CIVIL FOR MORE INFO
02.10	EXISTING RESTROOMS TO BE MODIFIED
02.11	EXISTING SCREEN WALL TO REMAIN
02.13	EXISTING CHAINLINK FENCE AND GATE TO REMAIN
08.11	PROVIDE NEW EXTERIOR EGRESS DOOR
08.13	NEW ENTRANCE DOOR
08.15	PROVIDE NEW 3' X 7' CHAINLINK GATE
10.03	NEW FABRIC ENCLOSURE OVER NEW STEEL FRAMING STRUCTURE

ARLINGTON  
VIRGINIA

DEPARTMENT OF PARKS,  
RECREATION AND  
CULTURAL RESOURCES

Park Development Division  
2100 Clarendon Boulevard, Suite  
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21-DPR-ITB-356

Project Name and Location

Gunston Park  
Enclosed  
Athletic Facility  
Improvements

28th Street South  
Arlington, VA

Sheet Title

SITE PLAN

Approvals Date

Department Director

Park Development Division Chief

Design Unit Supervisor

Date	Revisions	
5/26/20	Permit submission	△
1/15/21	Revision 1	1
3/16/21	Revision 2	2
4/26/21	Bid Set	

Designed:  
Drawn: **KN**  
Checked: **BV**

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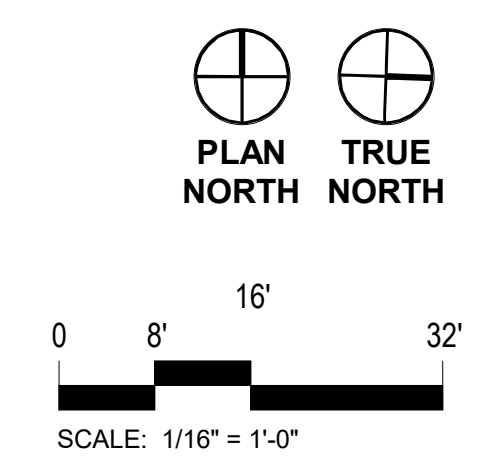
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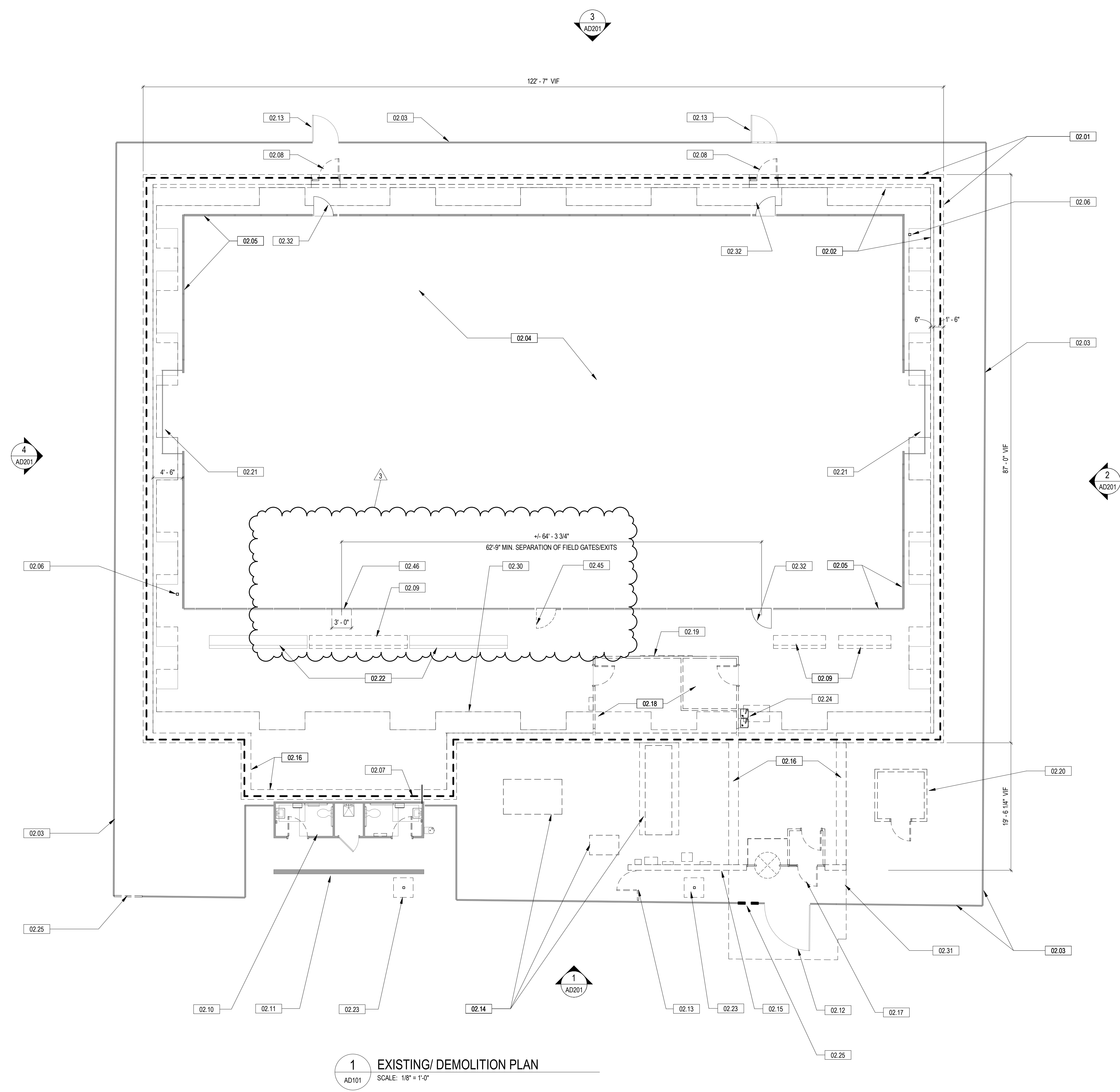


PERMIT SUBMISSION

Sheet Number:

A-003





KEYNOTES	
02.01	REMOVE EXISTING 18\"
02.02	REMOVE EXISTING 6\"
02.03	EXISTING CHAINLINK FENCE TO REMAIN. SEE CIVIL FOR MORE INFO
02.04	EXISTING TURF AND SUB BASE TO REMAIN. CONTRACTOR TO PROTECT TURF DURING CONSTRUCTION
02.05	EXISTING 8FT TALL FIELD SEPARATION WALL TO BE REMOVED, STORED DURING CONSTRUCTION AND REINSTALLED BY CONTRACTOR
02.06	POST MOUNTED FAN TO BE REMOVED AND SALVAGED FOR REUSE
02.07	REMOVE EXISTING AIR SUPPORTED STRUCTURE TO FOUNDATION
02.08	REMOVE EXISTING EXIT DOOR AND ENTRANCE SUPPORT STRUCTURE INCLUDING EXTERIOR CONCRETE PAD ON GRADE. PREPARE FOR NEW EXIT DOOR AND ENTRANCE. SEE NEW PLAN FOR LOCATIONS. SEE STRUC. FOR MORE INFO
02.09	EXISTING BENCHES TO BE REMOVED AND SALVAGED FOR REUSE. TYPICAL
02.10	EXISTING RESTROOMS TO BE MODIFIED
02.11	EXISTING SCREEN WALL TO REMAIN
02.12	EXISTING GATE & PORTION OF FENCE TO BE REMOVED AND RE-INSTALLED FOR NEW SIDEWALK INSTALLATION AND HARDWARE
02.13	EXISTING CHAINLINK FENCE AND GATE TO REMAIN
02.14	REMOVE EXISTING MECHANICAL OUTDOOR UNITS, CONCRETE PADS & RELATED DUCTWORKS. SEE MECH AND CIVIL FOR MORE INFO
02.15	REMOVE EXISTING BRICK WALL AND ALL RELATED MECH. ELEC. ATTACHED TO THE WALL. SEE MEP FOR MORE INFO
02.16	REMOVE EXISTING CONCRETE BEAM. SEE STRUC. FOR MORE INFO
02.17	REMOVE EXISTING ENTRANCE DOOR AND REVOLVING DOOR INCLUDING ALL RELATED SUPPOR FRAMING AND ECLECTRICAL WIRING. SEE MEP FOR MORE INFO
02.18	REMOVE EXISTING STORAGES
02.19	REMOVE WALL MOUNTED SCORE BOARD AND WIRING. SALVAGE FOR REUSE
02.20	REMOVE EXISTING SHED, COORDINATE WITH COUNTY REPS FOR MORE INFO
02.21	REMOVE, STORE AND REINSTALL EXISTING GOAL NET & FRAMING
02.22	EXISTING BENCHES TO BE REMOVED AND SALVAGED FOR REUSE AT SAME PLACE
02.23	REMOVE EXISTING LIGHT POLE
02.24	REMOVE EXISTING WATER DRINKING FOUNTAIN
02.25	REMOVE/ MODIFY EXISTING CHAINLINK FENCE TO MAKE OPENING FOR NEW GATE TO MATCH EXISTING
02.30	REMOVE TURF AND SUB BASE FOR NEW CONCRETE PIERS AND FOUNDATION. SEE STRUCTURAL DWGS FOR MORE INFO
02.31	REMOVE EXISTING CONCRETE FLOOR
02.32	REMOVE, STORE, AND REINSTALL EXISTING DOOR AND FRAME TO REMAIN
02.45	REMOVE EXISTING DOOR AND FRAME. SALVAGE FOR REUSE
02.46	MODIFY EXISTING FIELD PARTITION TO RECEIVE RELOCATED DOOR AND FRAME

ARLINGTON  
VIRGINIA

DEPARTMENT OF PARKS,  
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CULTURAL RESOURCES

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Fax: 703.228.3328

21-DPR-ITB-356

Project Name and Location

Gunston Park  
Enclosed  
Athletic Facility  
Improvements

28th Street South  
Arlington, VA

Sheet Title

EXISTING/ DEMOLITION  
PLAN

Approvals Date

Department Director

Park Development Division Chief

Design Unit Supervisor

Date	Revisions	
5/26/20	Permit submission	△
1/15/21	Revision 1	1
3/16/21	Revision 2	2
5/07/21	Revision 3	3

Designed:  
Drawn: **KN**  
Checked: **BV**

Filename:  
Plotted:

Scale: AS INDICATED  
Date: 5/26/20

Seal



PERMIT SUBMISSION

Sheet Number:

AD101

**LEGEND** (DEMOLITION)

— EXISTING CONSTRUCTION TO REMAIN

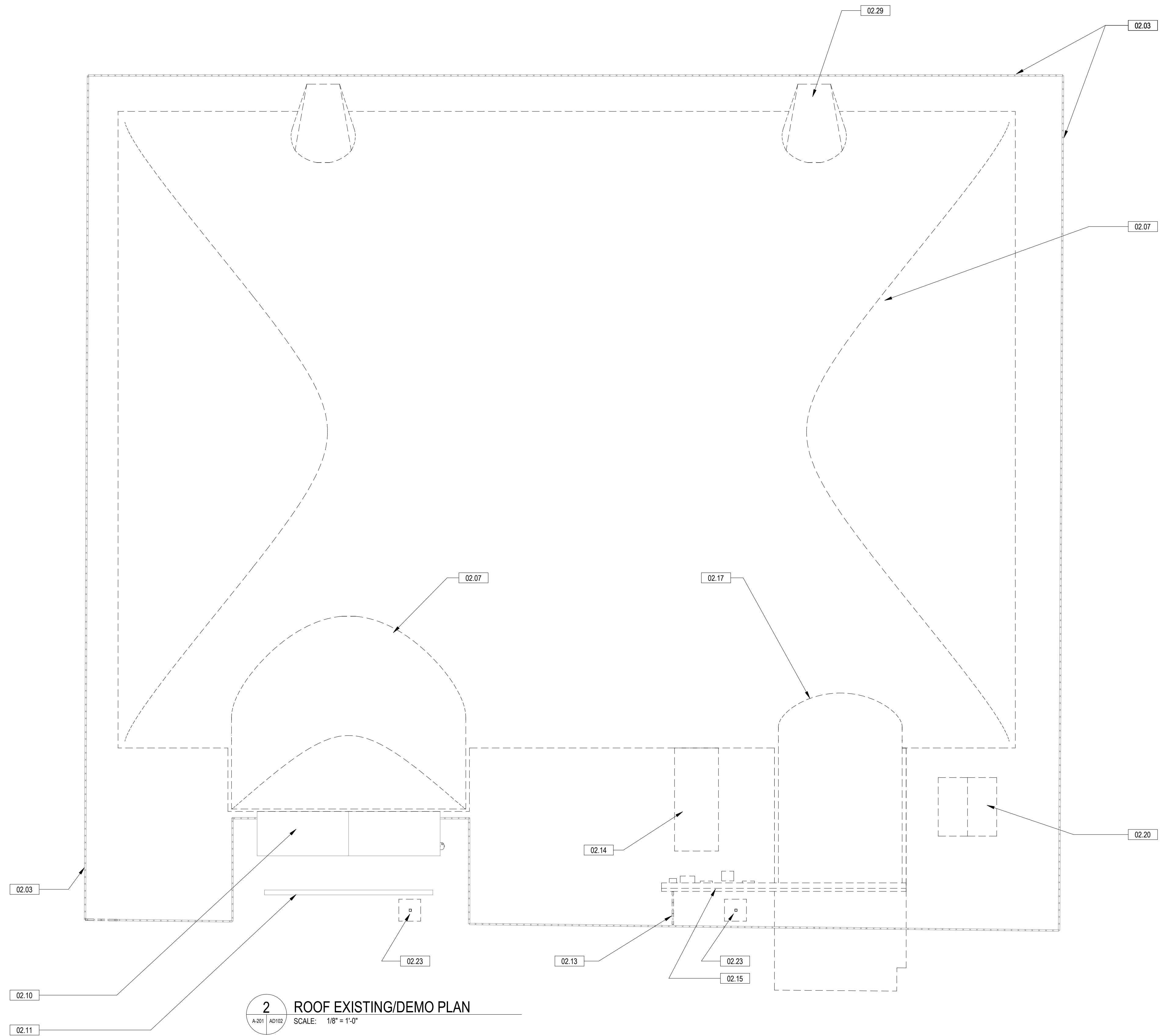
- - - EXISTING CONSTRUCTION TO BE REMOVED

PLAN NORTH TRUE NORTH

0 4' 8' 16'

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

1 EXISTING/ DEMOLITION PLAN  
AD101 SCALE: 1/8" = 1'-0"



**2** ROOF EXISTING/DEMO PLAN  
A-201 AD102 SCALE: 1/8" = 1'-0"

KEYNOTES	
02.03	EXISTING CHAINLINK FENCE TO REMAIN, SEE CIVIL FOR MORE INFO
02.07	REMOVE EXISTING AIR SUPPORTED STRUCTURE TO FOUNDATION
02.10	EXISTING RESTROOMS TO BE MODIFIED
02.11	EXISTING SCREEN WALL TO REMAIN
02.13	EXISTING CHAINLINK FENCE AND GATE TO REMAIN
02.14	REMOVE EXISTING MECHANICAL OUTDOOR UNITS, CONCRETE PADS & RELATED DUCTWORKS, SEE MECH AND CIVIL FOR MORE INFO
02.15	REMOVE EXISTING BRICK WALL AND ALL RELATED MECH. ELEC. ATTACHED TO THE WALL, SEE MEP FOR MORE INFO
02.17	REMOVE EXISTING ENTRANCE DOOR AND REVOLVING DOOR INCLUDING ALL RELATED SUPPOR FRAMING AND ECLECTRICAL WIRING, SEE MEP FOR MORE INFO
02.20	REMOVE EXISTING SHED, COORDINATE WITH COUNTY REPS FOR MORE INFO
02.23	REMOVE EXISTING LIGHT POLE
02.29	REMOVE EXISTING FABRIC CANOPY, TYPICAL

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**21-DPR-ITB-356**

Project Name and Location

**Gunston Park  
 Enclosed  
 Athletic Facility  
 Improvements**

28th Street South  
 Arlington, VA

Sheet Title

**EXISTING/ DEMOLITION  
 ROOF**

Approvals Date

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

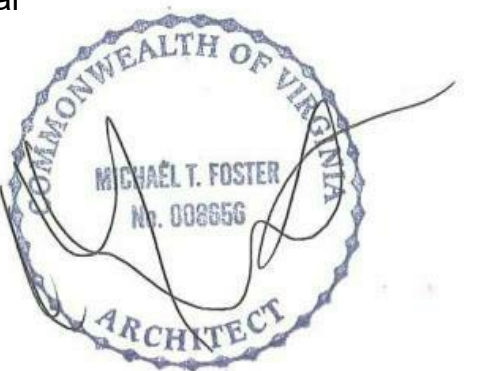
Date	Revisions	
1/15/21	Revision 1	1

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 Date: **5/26/20**

Seal



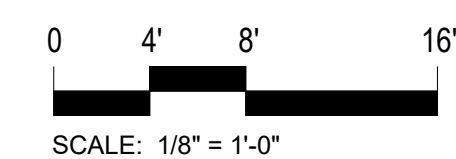
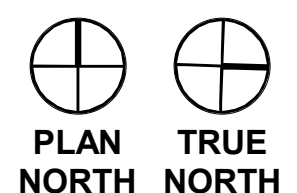
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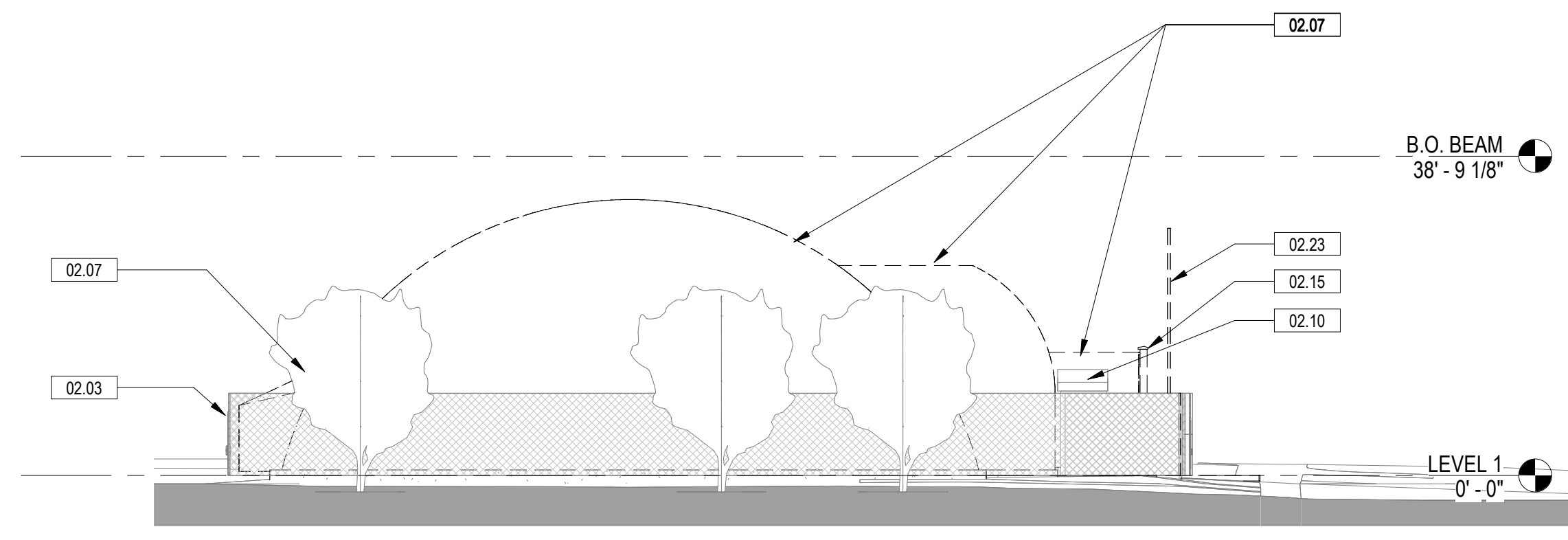
Sheet Number:

**AD102**

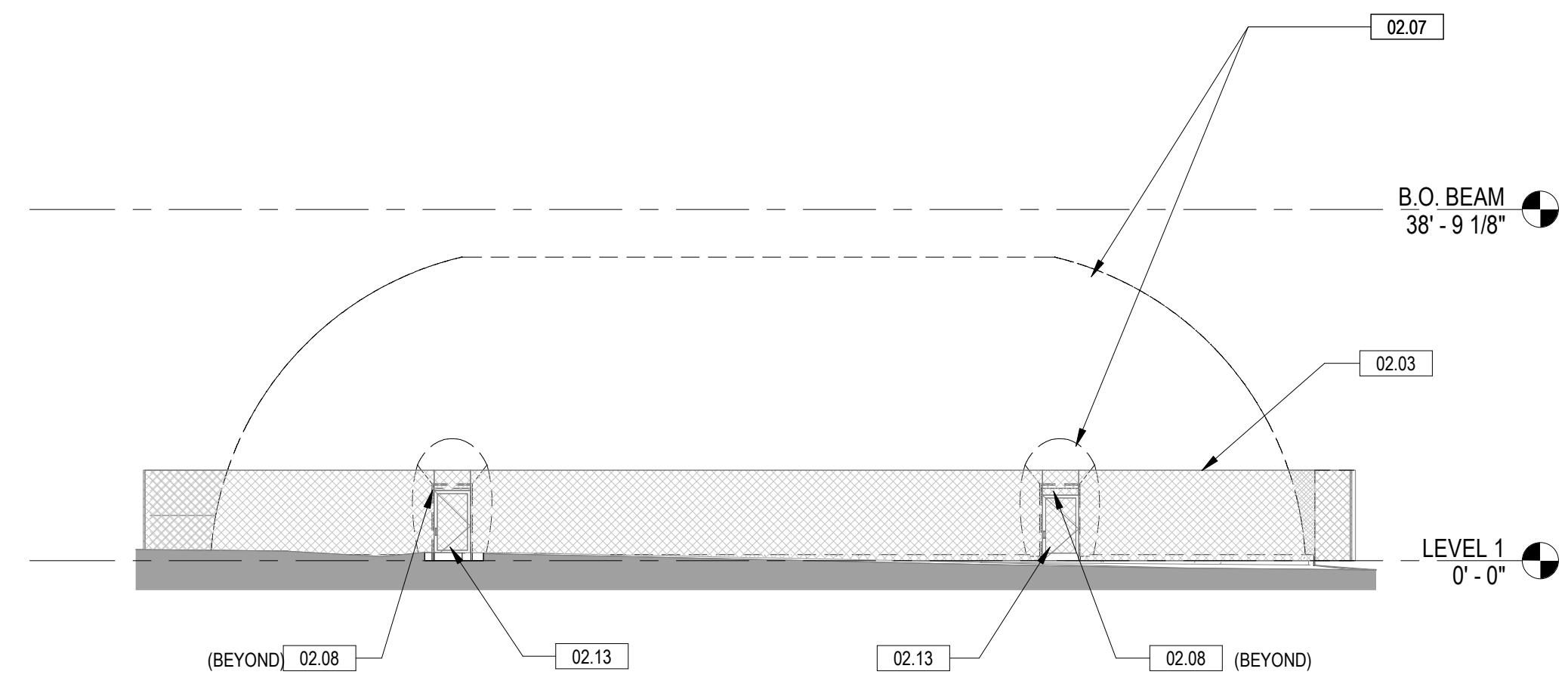
**LEGEND** (DEMOLITION)

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED

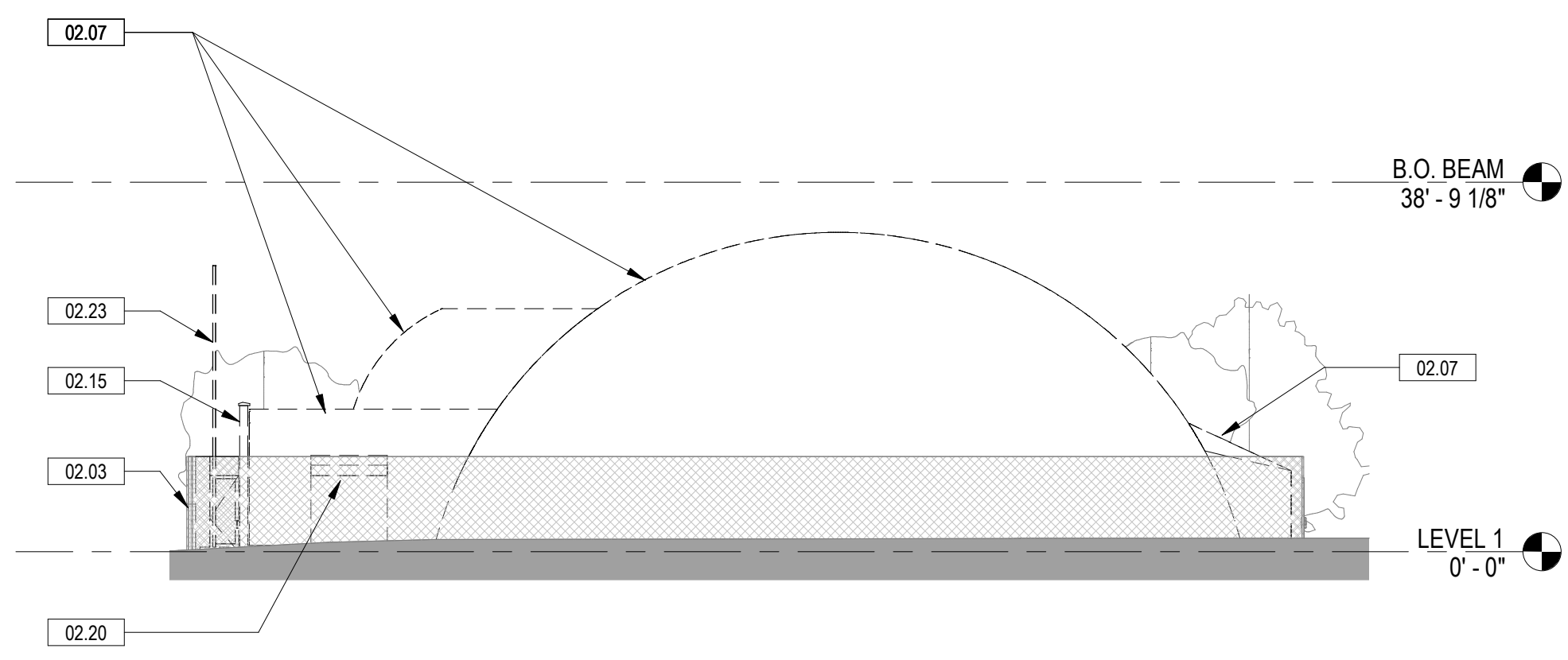




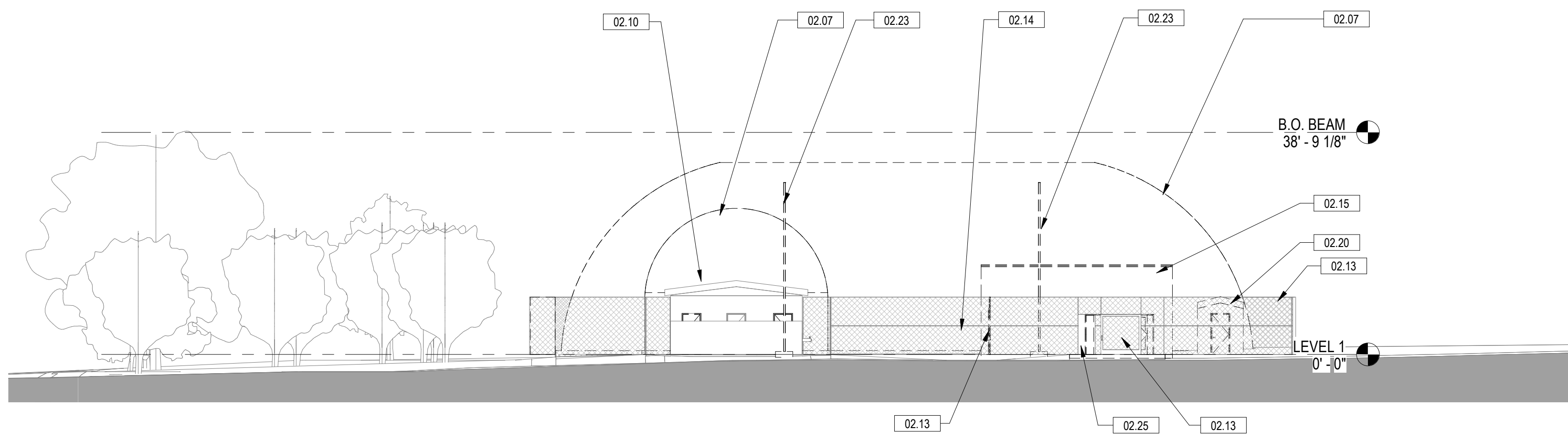
**4 WEST ELEVATION - EXISTING / DEMO**  
 SCALE: 1/16" = 1'-0"



**3 NORTH ELEVATION - EXISTING/ DEMO**  
 SCALE: 1/16" = 1'-0"



**2 EAST ELEVATION - EXISTING/ DEMO**  
 SCALE: 1/16" = 1'-0"



**1 SOUTH ELEVATION - EXISTING/ DEMO**  
 SCALE: 1/16" = 1'-0"

**KEYNOTES**

02.03	EXISTING CHAINLINK FENCE TO REMAIN. SEE CIVIL FOR MORE INFO
02.07	REMOVE EXISTING AIR SUPPORTED STRUCTURE TO FOUNDATION
02.08	REMOVE EXISTING EXIT DOOR AND ENTRANCE SUPPORT STRUCTURE INCLUDING EXTERIOR CONCRETE PAD ON GRADE. PREPARE FOR NEW EXIT DOOR AND ENTRANCE. SEE NEW PLAN FOR LOCATIONS. SEE STRUC. FOR MORE INFO
02.10	EXISTING RESTROOMS TO BE MODIFIED
02.13	EXISTING CHAINLINK FENCE AND GATE TO REMAIN
02.14	REMOVE EXISTING MECHANICAL OUTDOOR UNITS, CONCRETE PADS & RELATED DUCTWORKS. SEE MECH AND CIVIL FOR MORE INFO
02.15	REMOVE EXISTING BRICK WALL AND ALL RELATED MECH. ELEC. ATTACHED TO THE WALL. SEE MEP FOR MORE INFO
02.20	REMOVE EXISTING SHED, COORDINATE WITH COUNTY REPS FOR MORE INFO
02.23	REMOVE EXISTING LIGHT POLE
02.25	REMOVE/ MODIFY EXISTING CHAINLINK FENCE TO MAKE OPENING FOR NEW GATE TO MATCH EXISTING

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**21-DPR-ITB-356**

Project Name and Location

**Gunston Park  
 Enclosed  
 Athletic Facility  
 Improvements**

28th Street South  
 Arlington, VA

Sheet Title

**EXISTING/ DEMOLITION  
 ELEVATIONS**

Approvals \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Date	Revisions	
1/15/21	Revision 1	1
3/16/21	Revision 2	2

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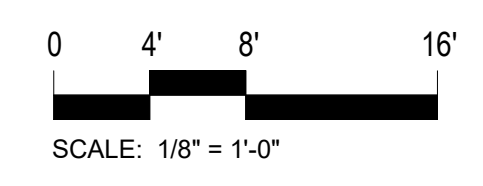
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 Date: **5/26/20**

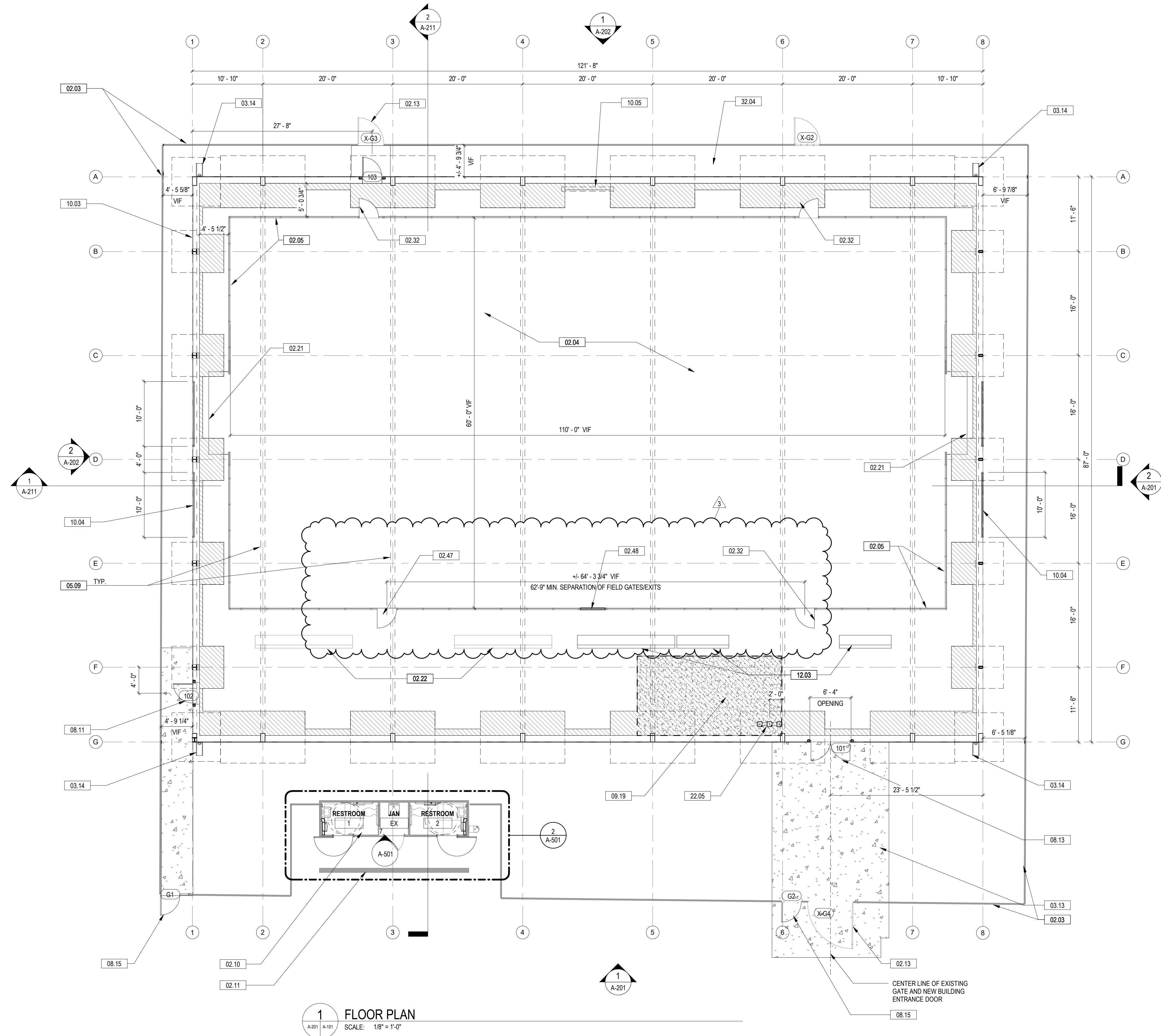


**PERMIT SUBMISSION**

Sheet Number:

**AD201**





**1 FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

**KEYNOTES**

02.03	EXISTING CHAINLINK FENCE TO REMAIN. SEE CIVIL FOR MORE INFO
02.04	EXISTING TURF AND SUB BASE TO REMAIN. CONTRACTOR TO PROTECT TURF DURING CONSTRUCTION
02.05	EXISTING 8FT TALL FIELD SEPARATION WALL TO BE REMOVED, STORED DURING CONSTRUCTION AND REINSTALLED BY CONTRACTOR
02.10	EXISTING RESTROOMS TO BE MODIFIED
02.11	EXISTING SCREEN WALL TO REMAIN
02.13	EXISTING CHAINLINK FENCE AND GATE TO REMAIN
02.21	REMOVE, STORE AND REINSTALL EXISTING GOAL NET & FRAMING
02.22	EXISTING BENCHES TO BE REMOVED AND SALVAGED FOR REUSE AT SAME PLACE
02.32	REMOVE, STORE, AND REINSTALL EXISTING DOOR AND FRAME TO REMAIN
02.47	RELOCATED DOOR AND FRAME
02.48	INFILL WITH RELOCATED FIELD PARTITION WHERE EXISTING DOOR AND FRAME REMOVED
03.13	NEW CONCRETE SIDE WALK. SEE CIVIL
03.14	24" IN LENGTH CONCRETE SPLASH BLOCK
05.09	NEW PREMANUFACTURED STEEL STRUCTURE WITH FABRIC COVERING
08.11	PROVIDE NEW EXTERIOR EGRESS DOOR
08.13	NEW ENTRANCE DOOR
08.15	PROVIDE NEW 3 X 7 CHAINLINK GATE
09.19	TURF INFILL TO MATCH EXISTING
10.03	NEW FABRIC ENCLOSURE OVER NEW STEEL FRAMING STRUCTURE
10.04	NEW FABRIC VENT PER MANUFACTURER'S DETAILS
10.05	SCOREBOARD HUNG TO SUPPORT FRAMING STRUCTURE ABOVE. COORDINATE WITH STRUC. & PREMANUFACTURED BUILDING MANUFACTURER FOR SUPPORT DETAILS. NEVCO MODEL #2700, (6'X) WIRELESS CONSOLE MODEL MP0W-7. COLORS TO BE SELECTED BY OWNER FROM MANUFACTURER'S STANDARD COLORS.
12.03	RELOCATED BENCHES
22.05	HILO WATER DRINKING FOUNTAIN. SEE MEP DRAWINGS FOR MORE INFO
32.04	PROVIDE NEW OR CONNECT TO EXISTING STORM WATER DRAIN LINE. SEE CIVIL FOR MORE INFO

**PRE ENGINEERED MEMBRANE STRUCTURE NOTES**

THE PLANS, ELEVATION AND SECTIONS ILLUSTRATE THE DESIGN INTENT FOR THE PRE-ENGINEERED MEMBRANE STRUCTURE.

ARLINGTON COUNTY DEPARTMENT OF PARKS AND RECREATION WILL CONTRACT WITH A PRE-ENGINEERED BUILDING MANUFACTURER TO PROVIDE A BUILDING DESIGN FOR THE DESIGN INTENT OF THE STRUCTURE SHOWN IN THESE DOCUMENTS. THIS IS TO INCLUDE THE STEEL STRUCTURE OF THE BUILDING, MEMBRANE COVERING, SUPPORT OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS AND ACCESSORIES INCLUDING SCOREBOARDS. THE BASIS OF DESIGN MANUFACTURER IS CLEAR SPAN FABRIC STRUCTURES, 1395 JOHN FITCH BLVD, SOUTH WINDSOR, CT, 06074. CONTACT BRAD WILLIAMS 800.603.4445 x1241

THE GENERAL CONTRACTOR IS TO COORDINATE THE FABRICATION AND THE DELIVERY OF THE STRUCTURE WITH CLEAR SPAN. THE GENERAL CONTRACTOR IS TO PROVIDE THE INSTALLATION OF THE PRE-ENGINEERED STRUCTURE.

THE PRE-ENGINEERED BUILDING MANUFACTURER IS TO PROVIDE ENGINEERED SHOP DRAWINGS BY AN ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA.

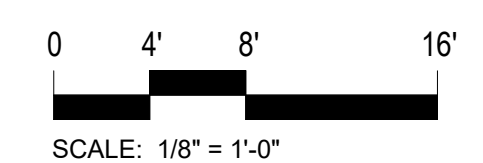
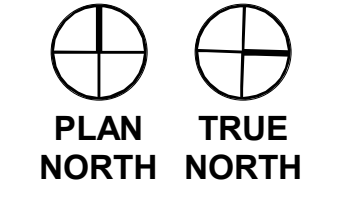
THE MEMBRANE STRUCTURE IS TO BE COMPLIANT WITH LOCAL JURISDICTION CODES INCLUDING SECTION 3102 OF THE VUBC "MEMBRANE STRUCTURES" FOUNDATION DESIGN HAS BEEN INCLUDED IN THESE DOCUMENTS. THE PRE-ENGINEERED BUILDING MANUFACTURER IS TO PROVIDE REACTIONS AT THE BASE PLATE OF THE PRE-ENGINEERED BUILDING. STAMPED SHOP DRAWINGS BY AN ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA ARE TO BE PROVIDED FOR REVIEW PRIOR TO CONSTRUCTION OF FOUNDATIONS.

PROVIDE R-30 FIBER GLASS INSULATION WITH POLYPROPYLENE SCRIM (CONTINUOUS AIR BARRIER) IN WALLS AND ROOF WITH 12 oz. WHITE LINER. PROVIDE GUTTERS AND DOWNSPOUTS. PROVIDE STRUCTURAL FRAMING FOR OPENINGS OPENINGS FOR LOUVERS, DOORS, VENTS AND PENETRATIONS.

MEMBRANE FABRIC IS TO BE COATED PVC/PVD, DOUBLE FLUORANTHED PVDF, POLISHED, 29OZ. 30MIL, WHITE COLOR, FLAME RESISTANCE NFPA 701 TEST 1 & 2, CFM TITLE 19.

REFER TO MEP DRAWINGS FOR EQUIPMENT THAT NEEDS TO BE SUPPORTED FROM PRE ENGINEERED STRUCTURE.

3 PROVIDE R-30 FIBER GLASS INSULATION WITH POLYPROPYLENE SCRIM (CONTINUOUS AIR BARRIER) IN WALLS AND ROOF WITH 12 oz. WHITE LINER. PROVIDE GUTTERS AND DOWNSPOUTS. PROVIDE STRUCTURAL FRAMING FOR OPENINGS OPENINGS FOR LOUVERS, DOORS, VENTS AND PENETRATIONS.



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Fax: 703.228.3328

**21-DPR-ITB-356**

Project Name and Location

**Gunston Park Enclosed Athletic Facility Improvements**

28th Street South  
Arlington, VA

Sheet Title

**FLOOR PLAN**

Approvals Date

Department Director

Park Development Division Chief

Design Unit Supervisor

Date	Revisions	
5/26/20	Permit submission	
1/15/21	Revision 1	1
3/16/21	Revision 2	2
5/07/21	Revision 3	3

Designed:  
Drawn: **KN**  
Checked: **BV**

Filename:  
Plotted:

Scale: AS INDICATED  
Date: 5/26/20

Seal



PERMIT SUBMISSION

Sheet Number:

**A-101**

**ARLINGTON**  
VIRGINIA

DEPARTMENT OF PARKS,  
RECREATION AND  
CULTURAL RESOURCES

Park Development Division  
2100 Clarendon Boulevard, Suite  
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**21-DPR-ITB-356**

Project Name and Location

**Gunston Park  
Enclosed  
Athletic Facility  
Improvements**

28th Street South  
Arlington, VA

Sheet Title

**ROOF PLAN**

Approvals \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Date \_\_\_\_\_ Revisions 

Designed: \_\_\_\_\_

Drawn: **KN**

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Date: **5/26/20**

Seal \_\_\_\_\_

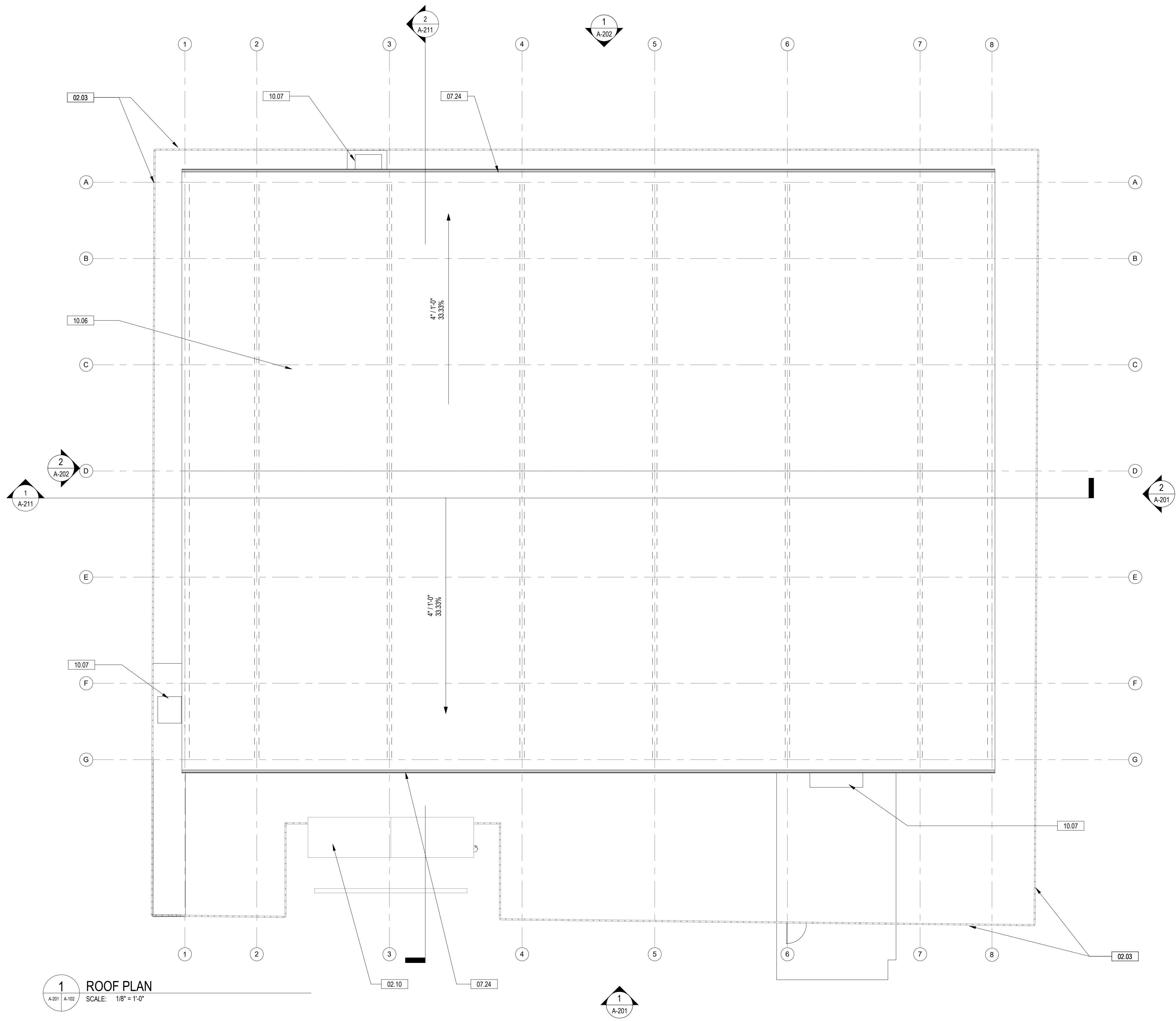


**PERMIT SUBMISSION**

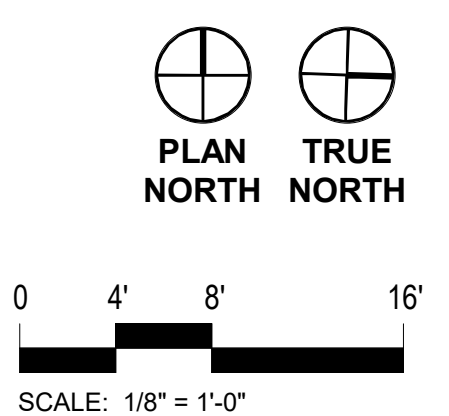
Sheet Number:

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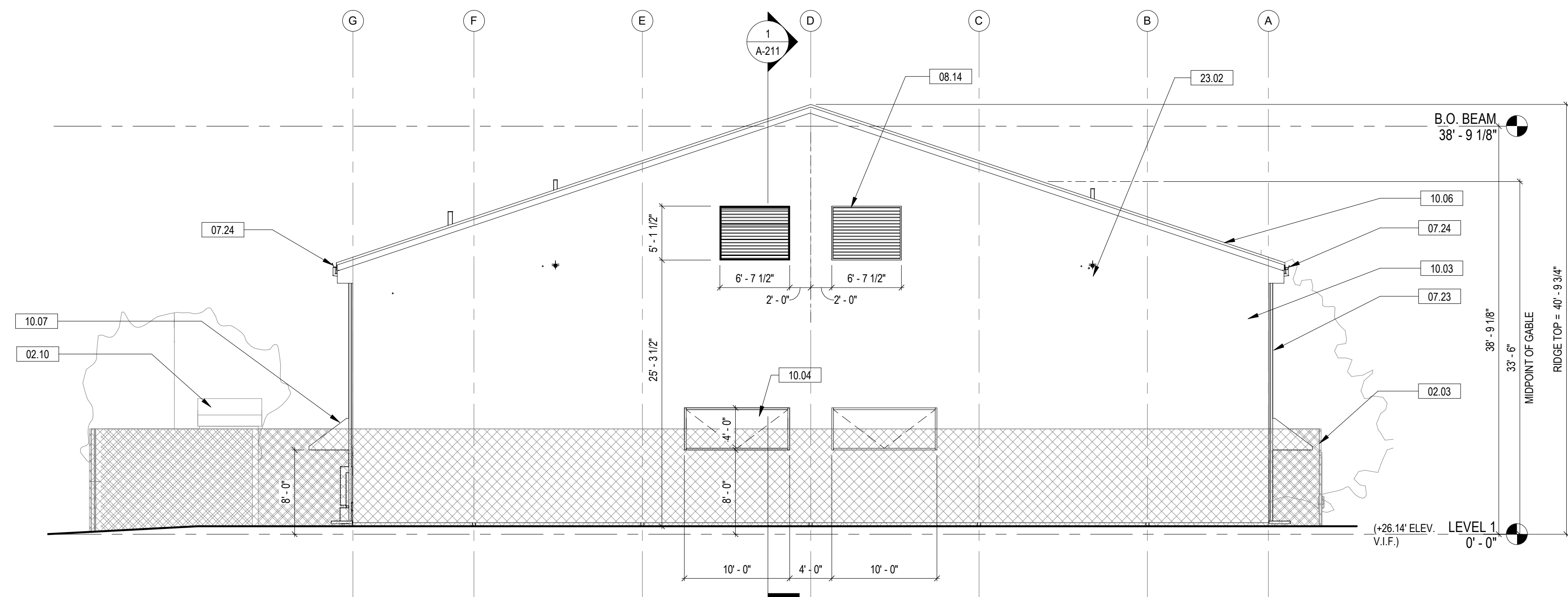
KEYNOTES	
02.03	EXISTING CHAINLINK FENCE TO REMAIN. SEE CIVIL FOR MORE INFO
02.10	EXISTING RESTROOMS TO BE MODIFIED
07.24	GUTTER BY PREMANUFACTURED BUILDING MANUFACTURER
10.06	NEW R-30 INSULATED FABRIC ROOF SYSTEM OVER STEEL FRAMING STRUCTURE
10.07	NEW FABRIC CANOPY PER MANUFACTURER'S DETAILS; CENTERED OVER DOOR (BELOW), TYP.



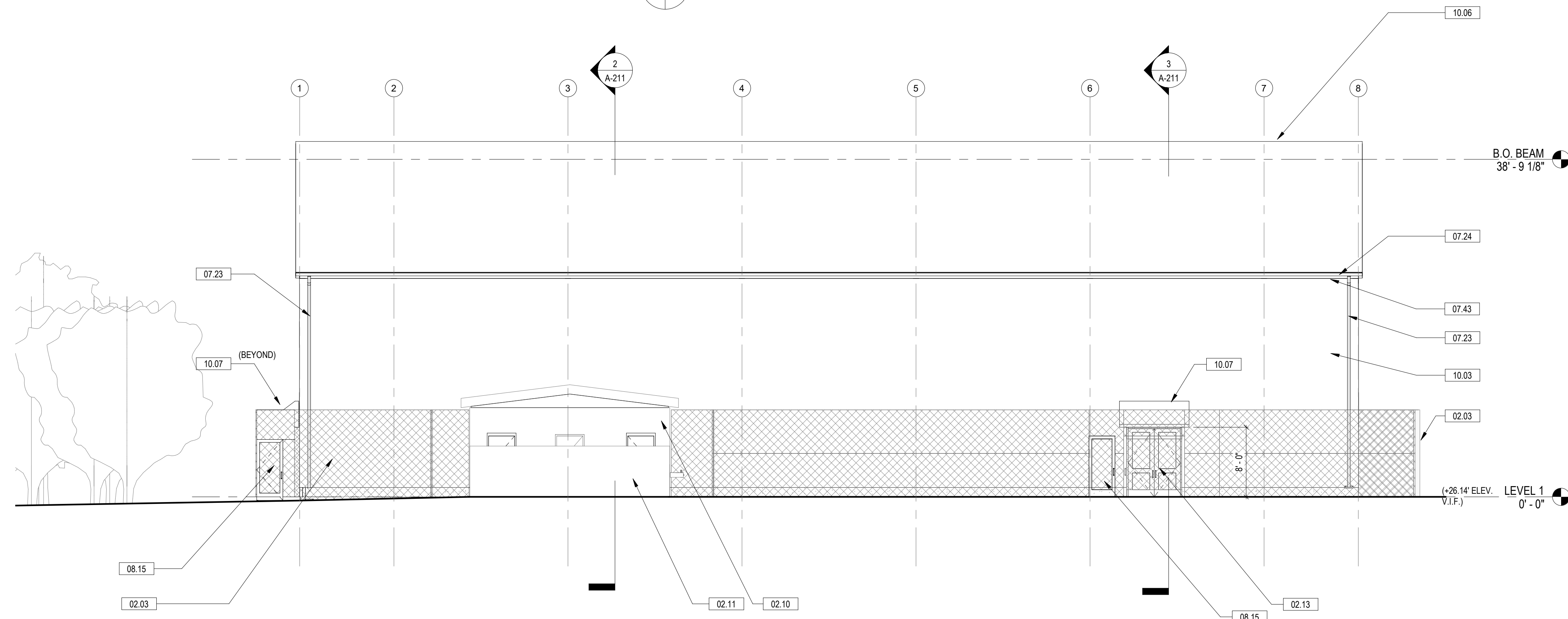
**1 ROOF PLAN**  
A-201 A-102 SCALE: 1/8" = 1'-0"







**2 EAST ELEVATION**  
 A-101 A-201 SCALE: 1/8" = 1'-0"



**1 SOUTH ELEVATION**  
 A-101 A-201 SCALE: 1/8" = 1'-0"

**KEYNOTES**

02.03	EXISTING CHAINLINK FENCE TO REMAIN, SEE CIVIL FOR MORE INFO
02.10	EXISTING RESTROOMS TO BE MODIFIED
02.11	EXISTING SCREEN WALL TO REMAIN
02.13	EXISTING CHAINLINK FENCE AND GATE TO REMAIN
07.23	DOWNSPOUT BY PREMANUFACTURED BUILDING MANUFACTURER
07.24	GUTTER BY PREMANUFACTURED BUILDING MANUFACTURER
07.43	FASCIA
08.14	LOUVERS, SEE MEP DWGS
08.15	PROVIDE NEW 3 X 7 CHAINLINK GATE
10.03	NEW FABRIC ENCLOSURE OVER NEW STEEL FRAMING STRUCTURE
10.04	NEW FABRIC VENT PER MANUFACTURER'S DETAILS
10.06	NEW R-30 INSULATED FABRIC ROOF SYSTEM OVER STEEL FRAMING STRUCTURE
10.07	NEW FABRIC CANOPY PER MANUFACTURER'S DETAILS; CENTERED OVER DOOR (BELOW), TYP.
23.02	GAS VENT

REFER TO MEP DRAWINGS FOR MORE MEP SCOPE ON EXTERIOR BUILDING ELEVATIONS

**PRE ENGINEERED MEMBRANE STRUCTURE NOTES**

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PROVIDE R-30 INSULATION IN WALLS AND ROOF WITH WHITE LINER. PROVIDE GUTTERS AND DOWNSPOUTS. PROVIDE STRUCTURAL FRAMING FOR OPENINGS OPENINGS FOR LOUVERS, DOORS, VENTS AND PENETRATIONS.

MEMBRANE FABRIC IS TO BE COATED PVC/PVD, DOUBLE FLUORANTIED PVDF, POLISHED, 29OZ. 30MIL, WHITE COLOR, FLAME RESISTANCE NFPA 701 TEST 1 & 2, CFM TITLE 19.

REFER TO MEP DRAWINGS FOR EQUIPMENT THAT NEEDS TO BE SUPPORTED FROM PRE ENGINEERED STRUCTURE.

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**21-DPR-ITB-356**

Project Name and Location

**Gunston Park  
 Enclosed  
 Athletic Facility  
 Improvements**

28th Street South  
 Arlington, VA

Sheet Title

**BUILDING ELEVATIONS**

Approvals Date

Department Director

Park Development Division Chief

Design Unit Supervisor

Date	Revisions	
1/15/21	Revision 1	1
3/16/21	Revision 2	2

Designed:  
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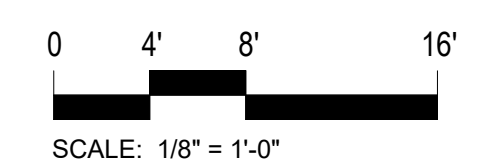
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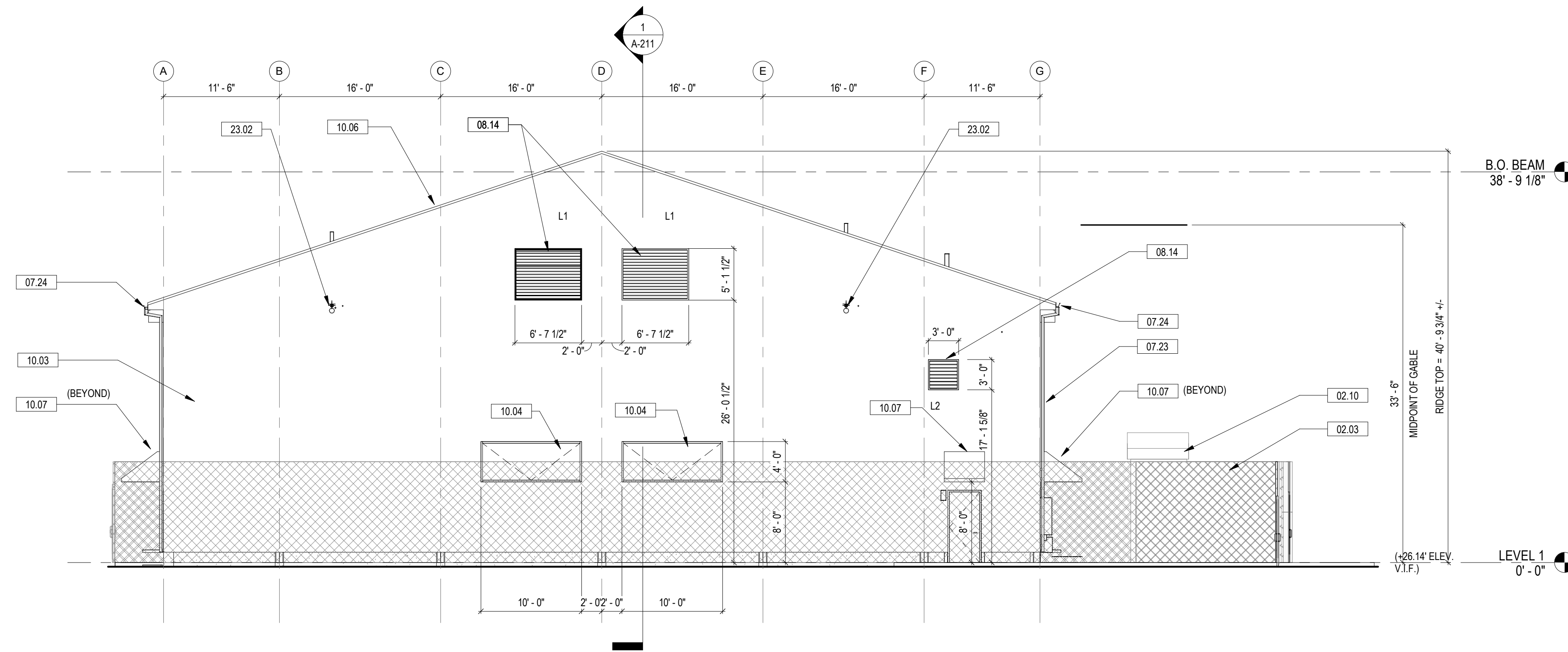


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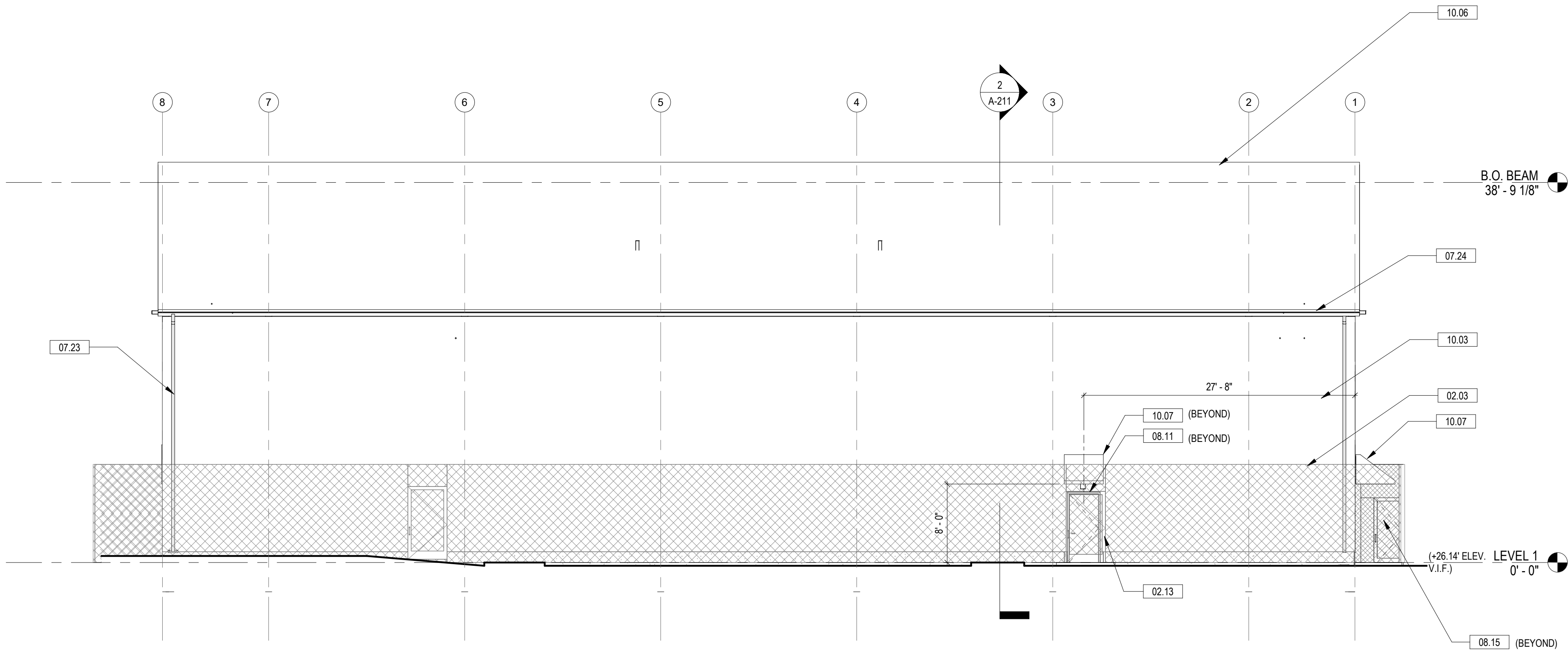
Sheet Number:

**A-201**





**2 WEST ELEVATION**  
SCALE: 1/8" = 1'-0"



**1 NORTH ELEVATION**  
SCALE: 1/8" = 1'-0"

**KEYNOTES**

02.03	EXISTING CHAINLINK FENCE TO REMAIN, SEE CIVIL FOR MORE INFO
02.10	EXISTING RESTROOMS TO BE MODIFIED
02.13	EXISTING CHAINLINK FENCE AND GATE TO REMAIN
07.23	DOWNSPOUT BY PREMANUFACTURED BUILDING MANUFACTURER
07.24	GUTTER BY PREMANUFACTURED BUILDING MANUFACTURER
08.11	PROVIDE NEW EXTERIOR EGRESS DOOR
08.14	LOUVERS, SEE MEP DWGS
08.15	PROVIDE NEW 3' X 7' CHAINLINK GATE
10.03	NEW FABRIC ENCLOSURE OVER NEW STEEL FRAMING STRUCTURE
10.04	NEW FABRIC VENT PER MANUFACTURER'S DETAILS
10.06	NEW R-30 INSULATED FABRIC ROOF SYSTEM OVER STEEL FRAMING STRUCTURE
10.07	NEW FABRIC CANOPY PER MANUFACTURER'S DETAILS; CENTERED OVER DOOR (BELOW), TYP.
23.02	GAS VENT

REFER TO MEP DRAWINGS FOR MORE MEP SCOPE ON EXTERIOR BUILDING ELEVATIONS

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THE GENERAL CONTRACTOR IS TO COORDINATE THE FABRICATION AND THE DELIVERY OF THE STRUCTURE WITH CLEAR SPAN. THE GENERAL CONTRACTOR IS TO PROVIDE THE INSTALLATION OF THE PRE-ENGINEERED STRUCTURE.

THE PRE-ENGINEERED BUILDING MANUFACTURER IS TO PROVIDE ENGINEERED SHOP DRAWINGS BY AN ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA.

THE MEMBRANE STRUCTURE IS TO BE COMPLIANT WITH LOCAL JURISDICTION CODES INCLUDING SECTION 3102 OF THE VUBC "MEMBRANE STRUCTURES" FOUNDATION DESIGN HAS BEEN INCLUDED IN THESE DOCUMENTS. THE PRE-ENGINEERED BUILDING MANUFACTURER IS TO PROVIDE REACTIONS AT THE BASE PLATE OF THE PRE-ENGINEERED BUILDING. STAMPED SHOP DRAWINGS BY AN ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA ARE TO BE PROVIDED FOR REVIEW PRIOR TO CONSTRUCTION OF FOUNDATIONS.

PROVIDE R-30 INSULATION IN WALLS AND ROOF WITH WHITE LINER. PROVIDE GUTTERS AND DOWNSPOUTS. PROVIDE STRUCTURAL FRAMING FOR OPENINGS OPENINGS FOR LOUVERS, DOORS, VENTS AND PENETRATIONS.

MEMBRANE FABRIC IS TO BE COATED PVC/PVD, DOUBLE FLUORINATED PVDF, POLISHED, 29OZ. 30MIL WHITE COLOR, FLAME RESISTANCE NFPA 701 TEST 1 & 2, CFM TITLE 19.

REFER TO MEP DRAWINGS FOR EQUIPMENT THAT NEEDS TO BE SUPPORTED FROM PRE ENGINEERED STRUCTURE.

**ARLINGTON**  
VIRGINIA

DEPARTMENT OF PARKS,  
RECREATION AND  
CULTURAL RESOURCES

Park Development Division  
2100 Clarendon Boulevard, Suite  
414  
Arlington, VA 22201  
Phone: 703.228.3323  
Fax: 703.228.3328

**21-DPR-ITB-356**

Project Name and Location

**Gunston Park  
Enclosed  
Athletic Facility  
Improvements**

28th Street South  
Arlington, VA

Sheet Title

**BUILDING ELEVATIONS**

Approvals \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Date	Revisions	
1/15/21	Revision 1	1
3/16/21	Revision 2	2

Designed: \_\_\_\_\_  
Drawn: **KN**  
Checked: **BV**

Filename: \_\_\_\_\_  
Plotted: \_\_\_\_\_

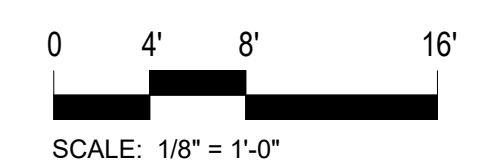
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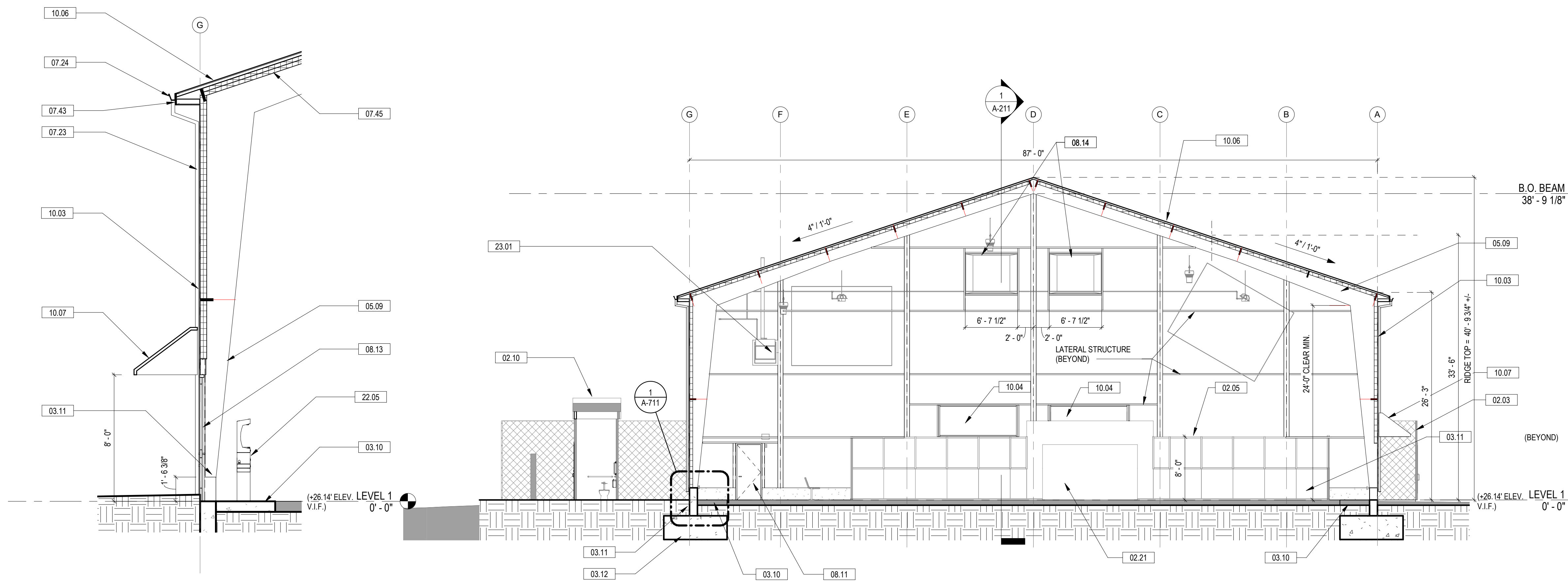


**PERMIT SUBMISSION**

Sheet Number:

**A-202**





3 SECTION @ MAIN ENTRANCE  
SCALE: 1/4" = 1'-0"

2 SECTION 2  
SCALE: 1/8" = 1'-0"

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

KEYNOTES	
02.03	EXISTING CHAINLINK FENCE TO REMAIN. SEE CIVIL FOR MORE INFO
02.04	EXISTING TURF AND SUB BASE TO REMAIN. CONTRACTOR TO PROTECT TURF DURING CONSTRUCTION
02.05	EXISTING 8FT TALL FIELD SEPARATION WALL TO BE REMOVED, STORED DURING CONSTRUCTION AND REINSTALLED BY CONTRACTOR
02.10	EXISTING RESTROOMS TO BE MODIFIED
02.21	REMOVE, STORE AND REINSTALL EXISTING GOAL NET & FRAMING
02.32	REMOVE, STORE, AND REINSTALL EXISTING DOOR AND FRAME TO REMAIN
03.10	NEW TURF FLOOR AND SUB BASE TO MATCH EXISTING
03.11	NEW CONCRETE GRADE BEAM, SEE STRUC. DWGS
03.12	NEW CONCRETE PIERS, SEE STRUC. DWGS
05.09	NEW PREMANUFACTURED STEEL STRUCTURE WITH FABRIC COVERING
07.23	DOWNSPOUT BY PREMANUFACTURED BUILDING MANUFACTURER
07.24	GUTTER BY PREMANUFACTURED BUILDING MANUFACTURER
07.43	WALL
07.45	CONTINUOUS R-30 FIBER GLASS INSULATION WITH CONTINUOUS POLYPROPYLENE SCRIM (CONTINUOUS AIR BARRIER) LAMTEC WMP-50 OR APPROVED EQUAL
08.11	PROVIDE NEW EXTERIOR EGRESS DOOR
08.13	NEW ENTRANCE DOOR
08.14	LOUVERS, SEE MEP DWGS
10.03	NEW FABRIC ENCLOSURE OVER NEW STEEL FRAMING STRUCTURE
10.04	NEW FABRIC VENT PER MANUFACTURER'S DETAILS
10.06	NEW R-30 INSULATED FABRIC ROOF SYSTEM OVER STEEL FRAMING STRUCTURE
10.07	NEW FABRIC CANOPY PER MANUFACTURER'S DETAILS, CENTERED OVER DOOR (BELOW), TYP.
10.08	STEEL BRACING BY PREMANUFACTURED FABRIC MANUFACTURER, TYP.
22.05	H-I/O WATER DRINKING FOUNTAIN, SEE MEP DRAWINGS FOR MORE INFO
23.01	SEE MECHANICAL DRAWINGS FOR MORE INFO

REFER TO MANUFACTURER'S SHOP DRAWINGS FOR MORE DETAILS AND REQUIREMENTS

**PRE ENGINEERED MEMBRANE STRUCTURE NOTES**

THE PLANS, ELEVATION AND SECTIONS ILLUSTRATE THE DESIGN INTENT FOR THE PRE-ENGINEERED MEMBRANE STRUCTURE.

ARLINGTON COUNTY DEPARTMENT OF PARKS AND RECREATION WILL CONTRACT WITH A PRE-ENGINEERED BUILDING MANUFACTURER TO PROVIDE A BUILDING DESIGN FOR THE DESIGN INTENT OF THE STRUCTURE SHOWN IN THESE DOCUMENTS. THIS IS TO INCLUDE THE STEEL STRUCTURE OF THE BUILDING, MEMBRANE COVERING, SUPPORT OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS AND ACCESSORIES INCLUDING SCOREBOARDS. THE BASIS OF DESIGN MANUFACTURER IS CLEAR SPAN FABRIC STRUCTURES, 1395 JOHN FITCH BLVD, SOUTH WINDSOR, CT, 06074. CONTACT BRAD WILLIAMS 800.603.4445 x1241

THE GENERAL CONTRACTOR IS TO COORDINATE THE FABRICATION AND THE DELIVERY OF THE STRUCTURE WITH CLEAR SPAN. THE GENERAL CONTRACTOR IS TO PROVIDE THE INSTALLATION OF THE PRE-ENGINEERED STRUCTURE.

THE PRE-ENGINEERED BUILDING MANUFACTURER IS TO PROVIDE ENGINEERED SHOP DRAWINGS BY AN ENGINEER LICENSED IN THE COMMONWEALTH OF VIRGINIA.

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PROVIDE R-30 FIBER GLASS INSULATION WITH POLYPROPYLENE SCRIM (CONTINUOUS AIR BARRIER) IN WALLS AND ROOF WITH 12 oz. WHITE LINER. PROVIDE GUTTERS AND DOWNSPOUTS. PROVIDE STRUCTURAL FRAMING FOR OPENINGS FOR LOUVERS, DOORS, VENTS AND PENETRATIONS.

MEMBRANE FABRIC IS TO BE COATED PVC/PVD, DOUBLE FLUORANTIED PVD, POLISHED, 29OZ. 30MIL, WHITE COLOR, FLAME RESISTANCE NFPA 701 TEST 1 & 2, CFM TITLE 19.

REFER TO MEP DRAWINGS FOR EQUIPMENT THAT NEEDS TO BE SUPPORTED FROM PRE ENGINEERED STRUCTURE.

ARLINGTON VIRGINIA

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Park Development Division  
2100 Clarendon Boulevard, Suite 414  
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21-DPR-ITB-356

Project Name and Location  
**Gunston Park Enclosed Athletic Facility Improvements**

28th Street South  
Arlington, VA

Sheet Title

BUILDING SECTIONS

Approvals Date

Department Director

Park Development Division Chief

Design Unit Supervisor

Date	Revisions	
1/15/21	Revision 1	1
5/07/21	Revision 3	3

Designed:  
Drawn: **KN**  
Checked: **BV**

Filename:  
Plotted:

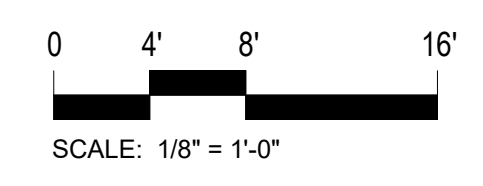
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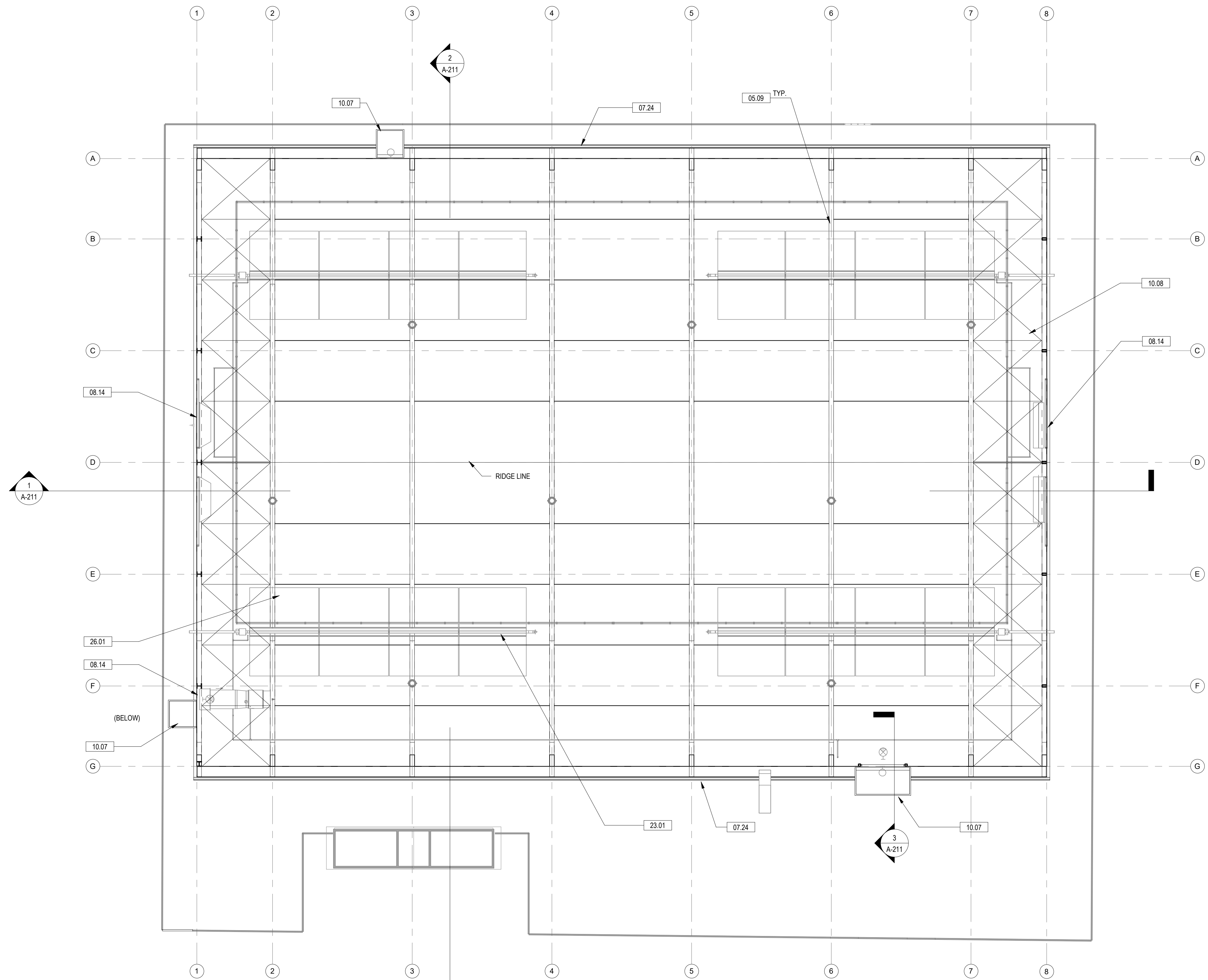


PERMIT SUBMISSION

Sheet Number:

**A-211**





**1 REFLECTED CEILING PLAN**  
 SCALE: 1/8" = 1'-0"

KEYNOTES	
05.09	NEW PREMANUFACTURED STEEL STRUCTURE WITH FABRIC COVERING
07.24	GUTTER BY PREMANUFACTURED BUILDING MANUFACTURER
08.14	LOUVERS, SEE MEP DWGS
10.07	NEW FABRIC CANOPY PER MANUFACTURER'S DETAILS; CENTERED OVER DOOR (BELOW), TYP.
10.08	STEEL BRACING BY PREMANUFACTURED FABRIC MANUFACTURER, TYP.
23.01	SEE MECHANICAL DRAWINGS FOR MORE INFO
26.01	LIGHT FIXTURE - SEE ELECTRICAL DRAWINGS

**ARLINGTON**  
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 2100 Clarendon Boulevard, Suite  
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**21-DPR-ITB-356**

Project Name and Location

**Gunston Park  
 Enclosed  
 Athletic Facility  
 Improvements**

28th Street South  
 Arlington, VA

Sheet Title

**REFLECTED CEILING  
 PLAN**

Approvals \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Date	Revisions	
1/15/21	Revision 1	1
3/16/21	Revision 2	2

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 Checked: **BV**

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 Plotted: \_\_\_\_\_

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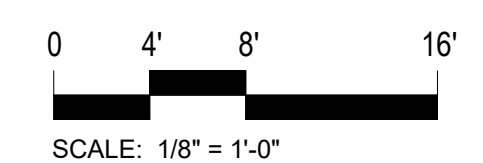
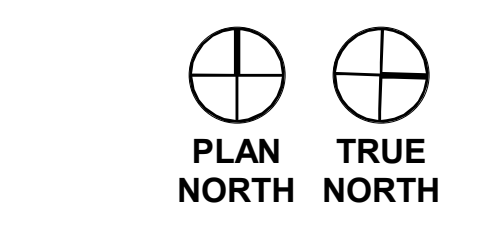
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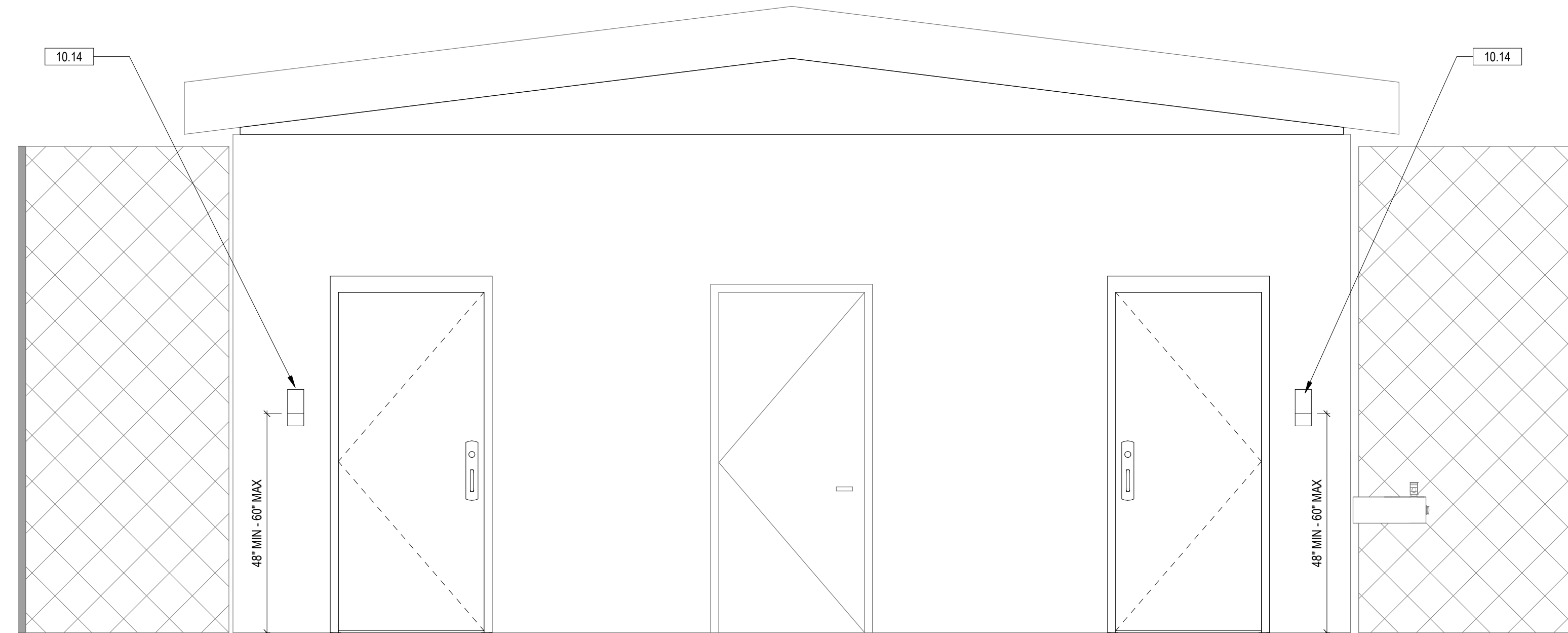


**PERMIT SUBMISSION**

Sheet Number:

**A-401**





**7 RESTROOMS - EXTERIOR ELEVATION**  
SCALE: 1/2" = 1'-0"

**KEYNOTES**

02.33	EXISTING LAVATORY TO REMAIN
02.34	EXISTING FRAMED MIRROR TO REMAIN
02.36	REMOVE, STORE, AND REINSTALL EXISTING PAPER TOWEL DISPENSER AND TRASH RECEPTACLE
02.37	EXISTING UTILITY SINK TO REMAIN
02.38	EXISTING GRAB BARS ADJUST TO MEET INSTALLATION AS SHOWN. CLEARANCE BETWEEN BACKSIDE OF GRAB BAR AND WALL IS TO BE 1-1/2"
02.39	EXISTING TOILET PAPER DISPENSER TO REMAIN. CONTRACTOR TO ENSURE THE MOUNTING HEIGHT AND LOCATION ARE COMPLIED WITH CODE
02.40	REMOVE, STORE, AND REINSTALL EXISTING TOILET PAPER DISPENSER
02.41	EXISTING WALL AC UNIT AND COVERING GRILL TO REMAIN
02.42	REMOVE EXISTING DOOR AND FRAME. PREP TO RECEIVE NEW DOOR AND FRAME
02.43	LINE OF EXISTING DRINKING FOUNTAIN PANEL BEHIND FURRING WALL
02.44	EXISTING TOILET TO REMAIN. VERIFY IT IS INSTALLED 16-18" FROM SIDEWALL. ADJUST IF IT DOES NOT MEET THIS REQUIREMENT
08.12	PROVIDE NEW DOOR AND FRAME, PAINT. DOOR HAS 180-SWING HOLD OPEN FEATURE, 5-LBS CLOSURE WITH 5 SECONDS TO CLOSE FROM AN OPEN 90 DEGREE TO A POSITION OF 12 DEGREES FROM THE LATCH
09.20	5/8" GYPSUMBOARD OVER 3 5/8" 20 GA FURRING METAL STUD @16" O.C., SEMI-GLOSS PAINT, WITH FINISH GYPSUM BD TOP CAP
10.09	PROVIDE INSULATED SAFEGUARD ON ALL EXPOSED PIPES AT EXISTING LAVATORY
10.10	REINSTALL EXISTING TOILET PAPER DISPENSER AT COMPLIED HEIGHT ABOVE FLOOR FINISH
10.11	REINSTALL EXISTING SOAP DISPENSER AT COMPLIED HEIGHT ABOVE FLOOR FINISHES
10.12	REINSTALL EXISTING PAPER TOWEL DISPENSER AND TRASH RECEPTACLE HALF RECESSED ONTO NEW FURRING WALL
10.13	PROVIDE 18" VERTICAL GRAB BAR COMPLIED WITH CODE
10.14	PROVIDE ADA PICTOGRAMS SIGNAGE INCLUDING BRAILLE CHARACTERS PER CODE REQUIREMENTS
22.06	EXISTING WATER DRINKING FOUNTAIN TO REMAIN

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**21-DPR-ITB-356**

Project Name and Location

**Gunston Park  
Enclosed  
Athletic Facility  
Improvements**

28th Street South  
Arlington, VA

Sheet Title

**RESTROOMS PLANS  
AND ELEVATIONS**

Approvals \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Date	Revisions	
1/15/21	Revision 1	1
3/16/21	Revision 2	2

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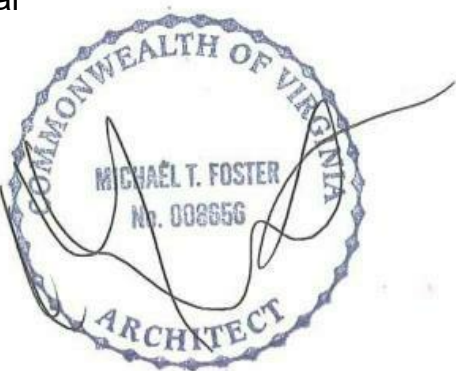
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Date: 5/26/20

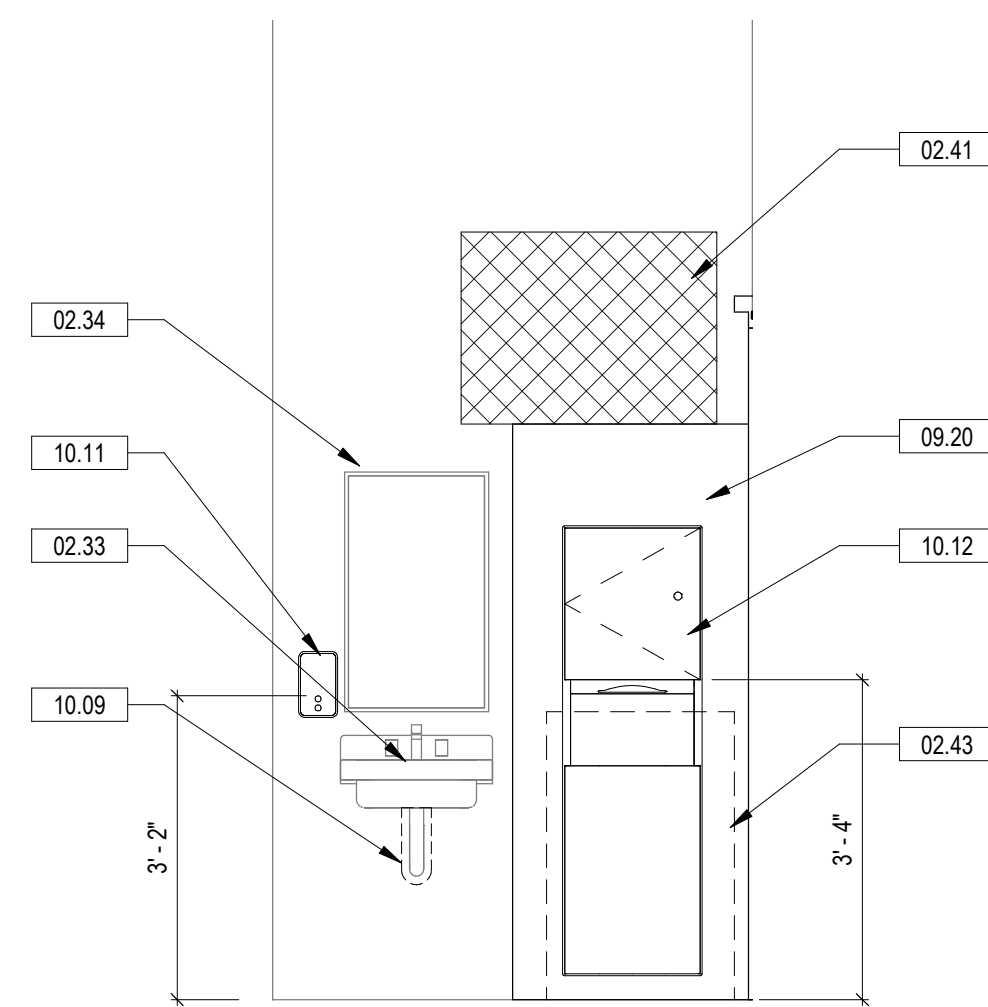
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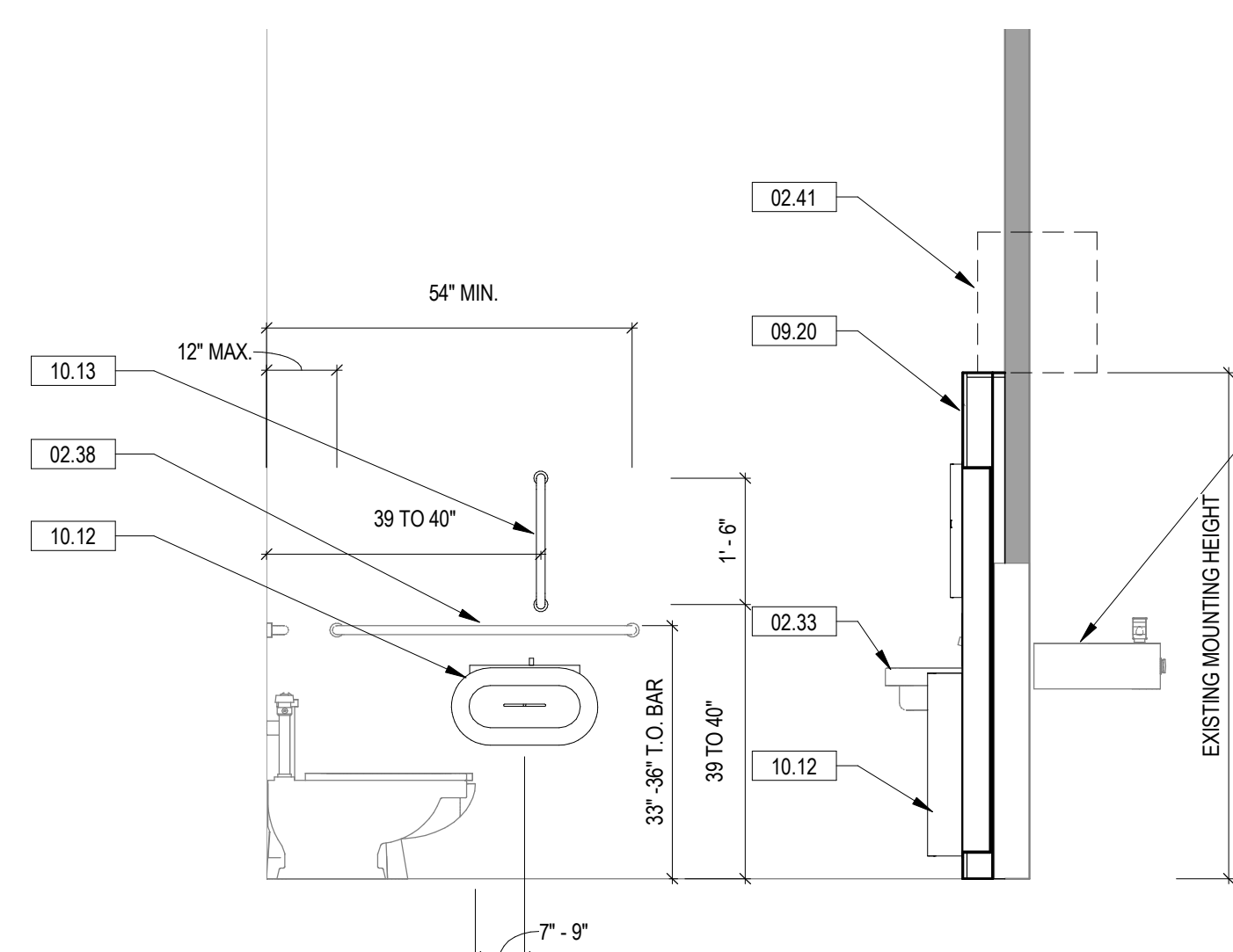
PERMIT SUBMISSION

Sheet Number:

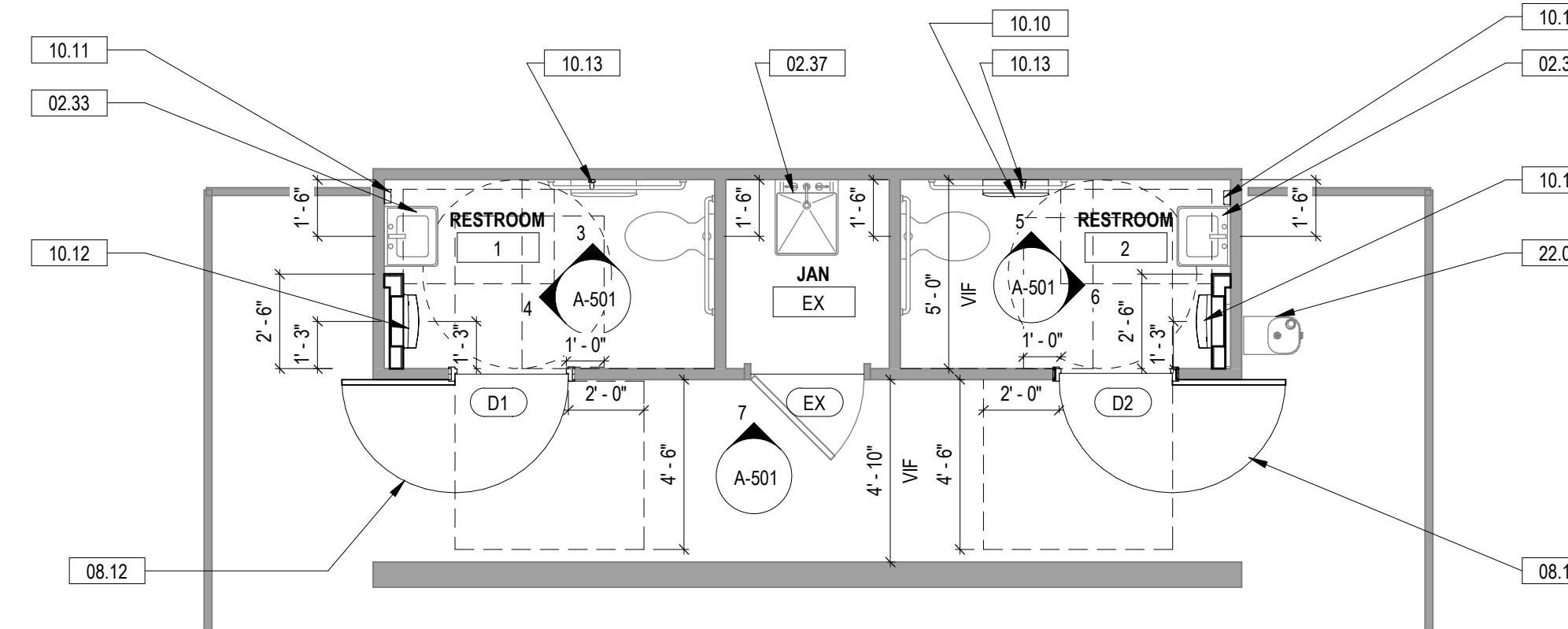
**A-501**



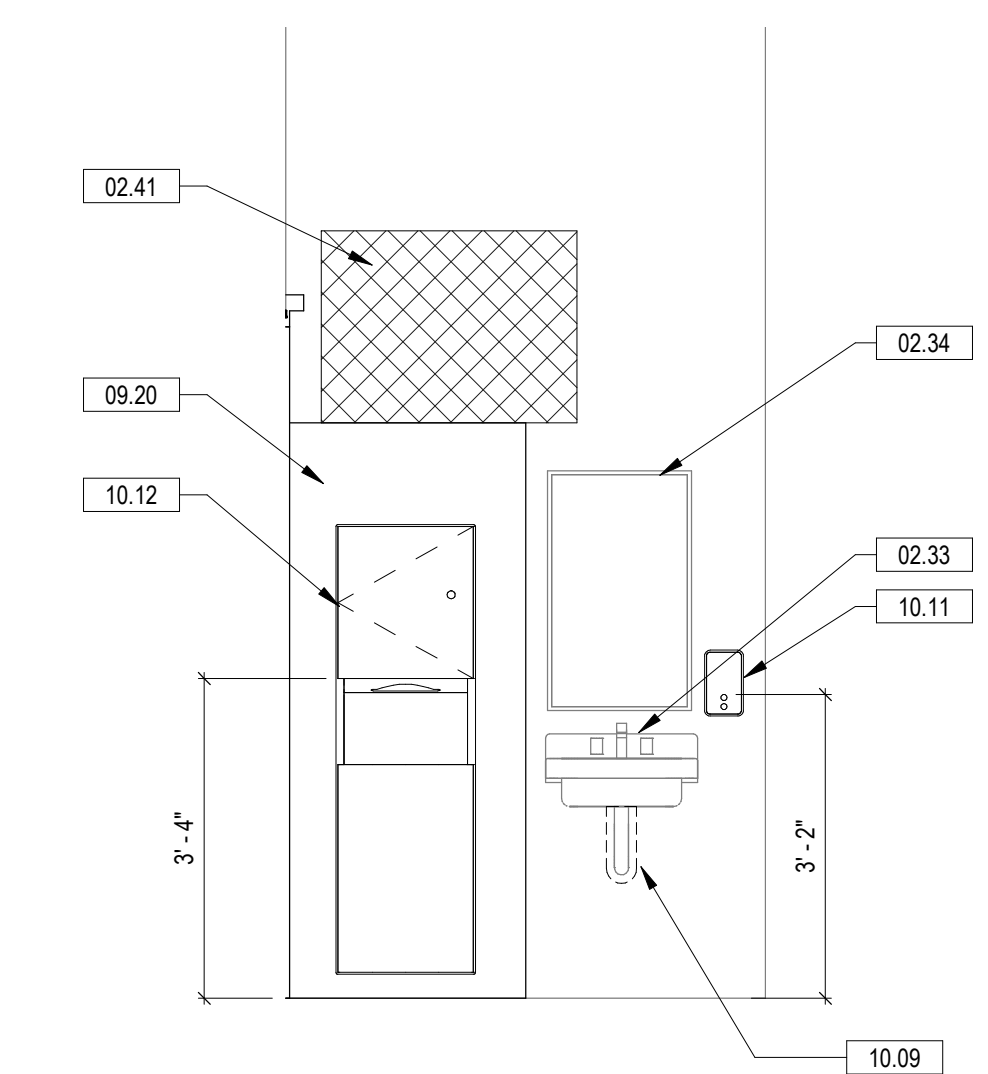
**6 RESTROOM 2\_ELEV - 2**  
SCALE: 1/2" = 1'-0"



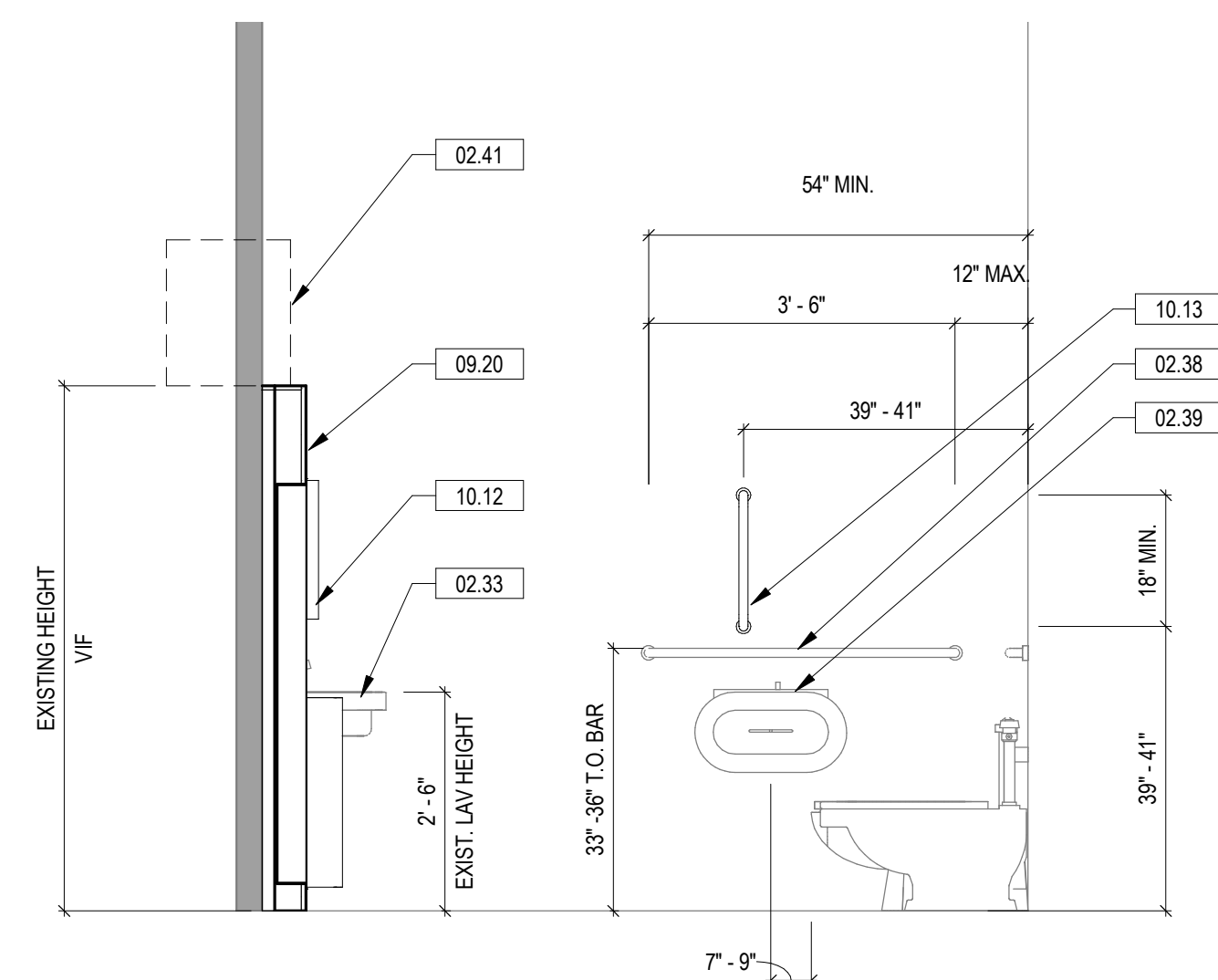
**5 RESTROOM 2\_ELEV - 1**  
SCALE: 1/2" = 1'-0"



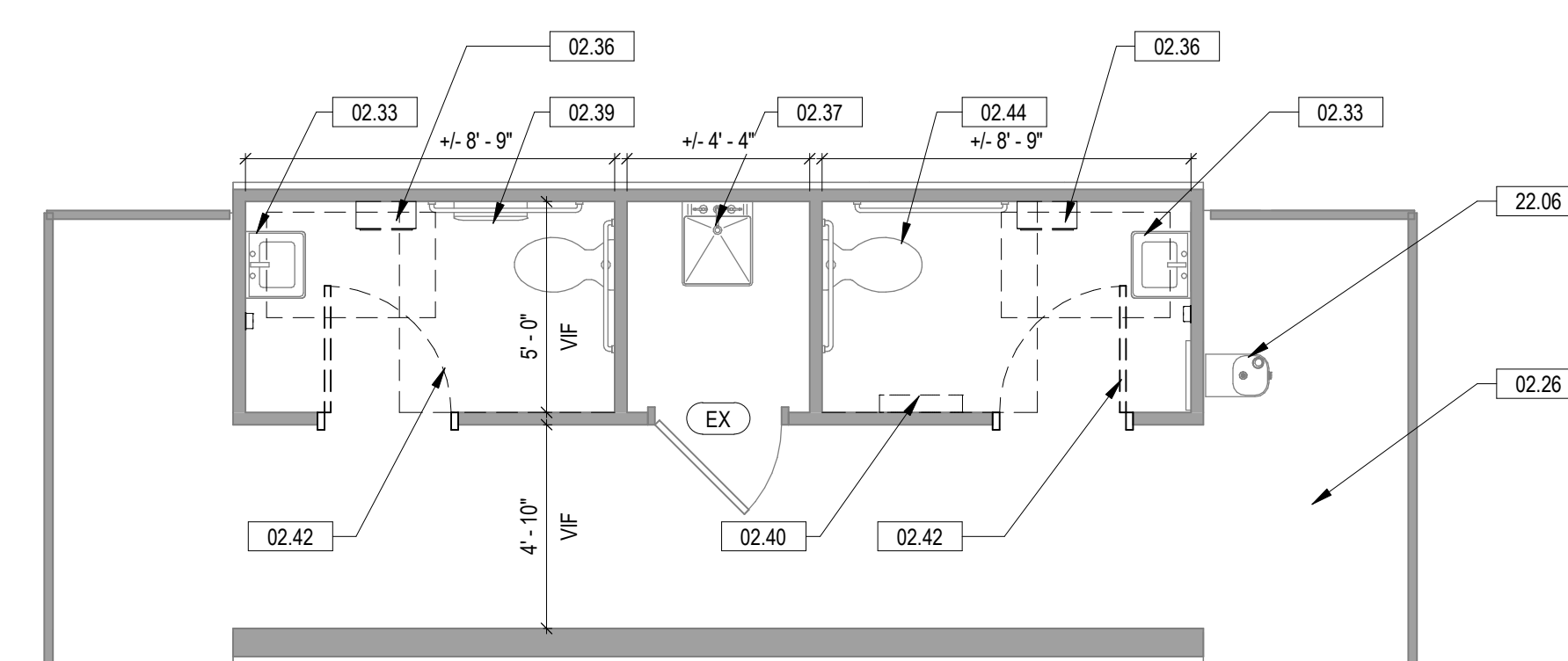
**2 RESTROOMS PLAN**  
SCALE: 1/4" = 1'-0"



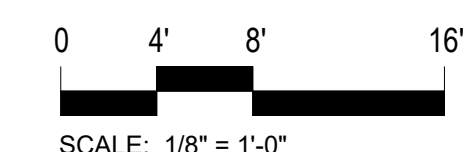
**4 RESTROOM 1\_ELEV - 2**  
SCALE: 1/2" = 1'-0"

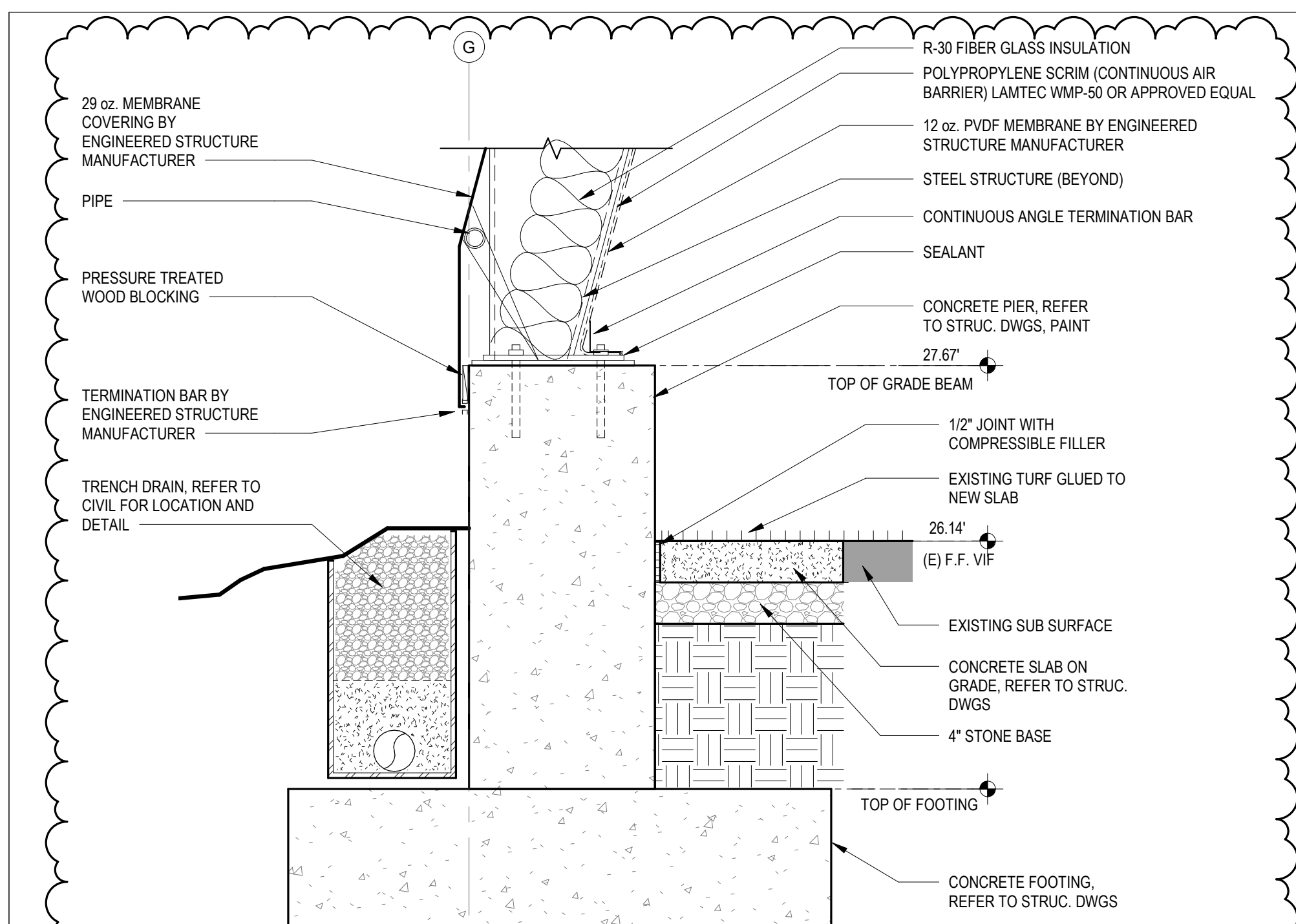


**3 RESTROOM 1\_ELEV - 1**  
SCALE: 1/2" = 1'-0"

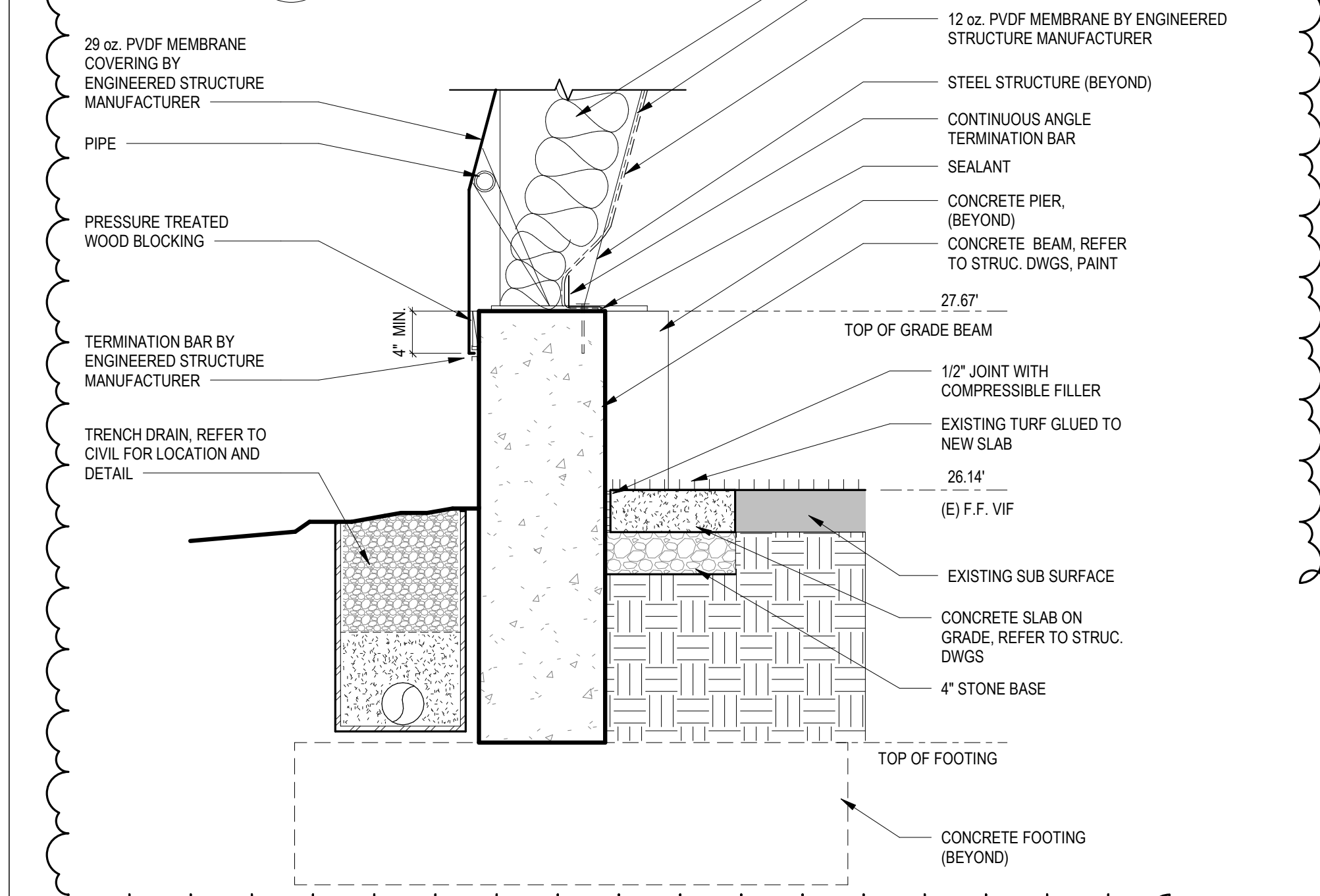


**1 EXISTING/DEMO RESTROOMS PLAN**  
SCALE: 1/4" = 1'-0"

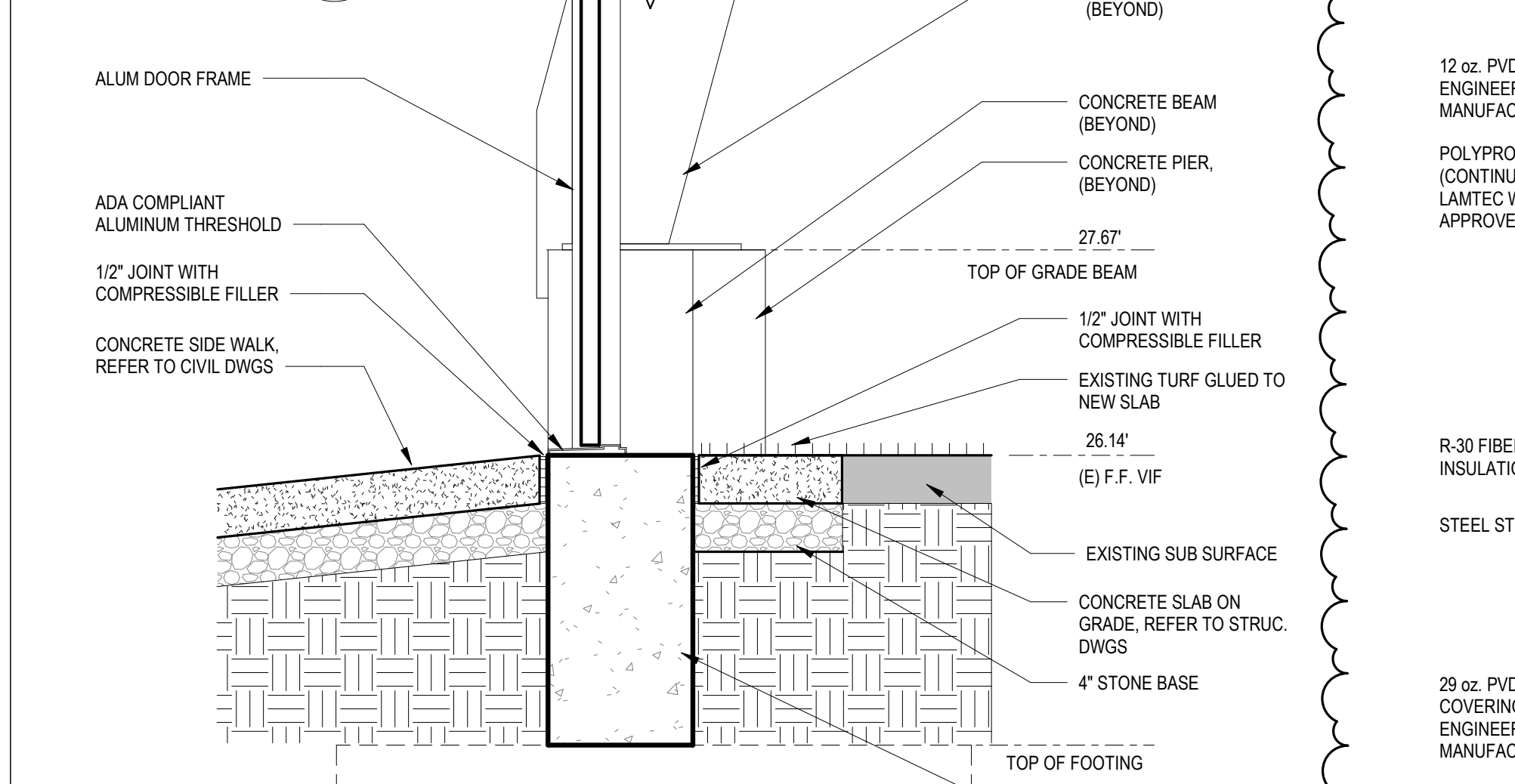




1 TYPICAL PIER DETAIL  
A-711 SCALE: 1" = 1'-0"



2 TYPICAL BEAM DETAIL  
A-711 SCALE: 1" = 1'-0"



3 TYPICAL BEAM @ DOOR SILL DETAIL S1  
A-711 SCALE: 1" = 1'-0"

DOOR NO.	WIDTH	HEIGHT	THICKNESS	DOOR			FRAME			DETAILS			UL LABEL	HARDWARE SET	REMARKS
				TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	SILL			
101	6'-0"	7'-10"		2	GLASS/ALUM	ANNODIZED	F1	ALUM	ANNODIZED	H1	J1	3/A711		1	
102	3'-0"	7'-0"	1 3/4"	1	ALUM	ANNODIZED	F1	ALUM	ANNODIZED	H1	J1	3/A711		2	
103	3'-0"	7'-0"	1 3/4"	1	ALUM	ANNODIZED	F1	ALUM	ANNODIZED	H1	J1	3/A711		2	
D1	3'-0"	7'-0"	1 3/4"	1	HM	PTD	F1	HM	PTD	H3	J3	S2		4	
D2	3'-0"	7'-0"	1 3/4"	1	HM	PTD	F1	HM	PTD	H3	J3	S2		4	
EX	3'-0"	7'-0"	1 3/4"	EX	EX	PTD	EX	EX	PTD	EX	EX	EX		EX	
G1	3'-0"	7'-0"	4"	3	CHAINLINK	MATCH EXISTING	F2	MTL	MATCH EXISTING					3	
G2	3'-0"	7'-0"	4"	3	CHAINLINK	MATCH EXISTING	F2	MTL	MATCH EXISTING					3	
X-G2	4'-0"	7'-5"	4"	EX	EX	EX	EX	EX	EX					EX	VERIFY IN FIELD
X-G3	4'-0"	7'-3"	4"	EX	EX	EX	EX	EX	EX					EX	VERIFY IN FIELD
X-G4	7'-0"	7'-0"	4"	EX	EX	EX	EX	EX	EX					EX	VERIFY IN FIELD

EX: EXISTING  
ALUM: ALUMINUM  
PTD: PAINTED METAL  
HM: HOLLOW METAL

DOOR HARDWARE SETS

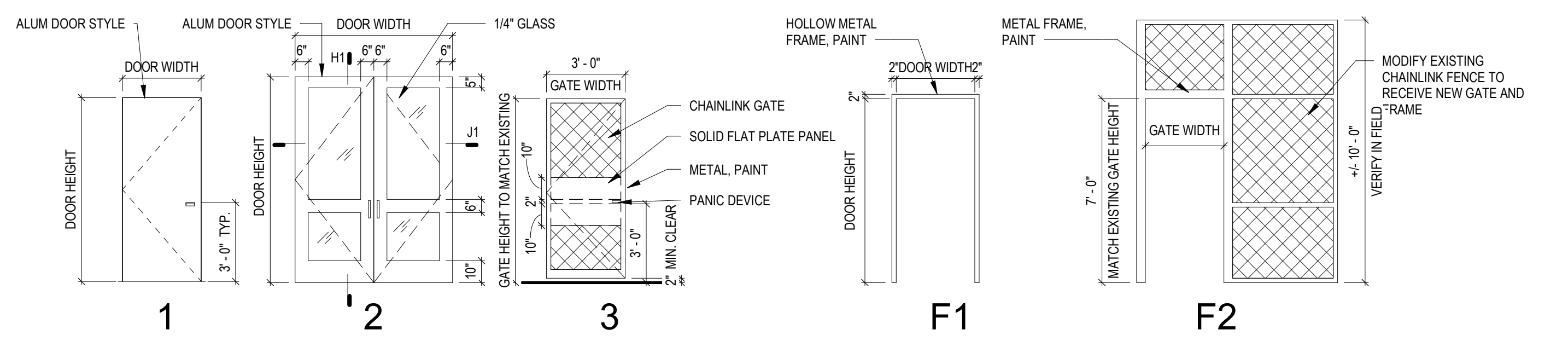
- SET #1
- HINGES
  - ENTRY LOCKSET
  - FIRE EXIT DEVICE
  - OVERHEAD CLOSER
  - ASTRIGAL
  - WEATHERSTRIPPING
  - THRESHOLD
- SET #2
- HINGES
  - ENTRY LOCKSET
  - FIRE EXIT DEVICE
  - OVERHEAD CLOSER
  - WEATHERSTRIPPING
  - THRESHOLD
- SET #3
- GATE HINGES
  - ENTRY LOCKSET
  - FIRE EXIT DEVICE
- SET #4
- HINGES
  - PRIVACY LOCKSET
  - 180 DEGREE CLOSER
  - THRESHOLD
  - WEATHERSTRIPPING
  - OCCUPIED/VACANT SIGN

NOTE: ALL DOOR HARDWARE IS TO BE ADA AND ANSI 117.1 2009 COMPLIANT  
ALL HARDWARE IS TO BE RATED FOR EXTERIOR APPLICATIONS  
LOCKSETS ARE TO BE MORTISE TYPE

EXTERIOR SWINGING ENTRY DOORS ARE TO HAVE A MAXIMUM U FACTOR OF 0.77 AND A GLAZED DOORS ARE ALSO TO HAVE A MAXIMUM SHGC OF 0.40.

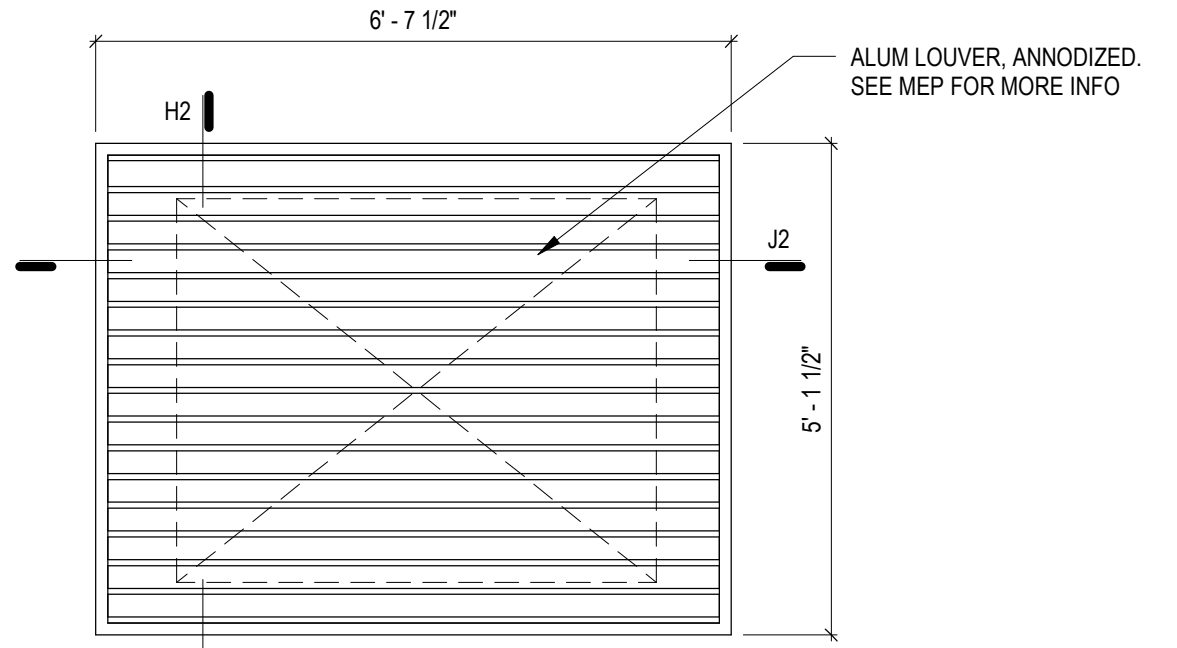
EXTERIOR SWINGING ENTRY DOORS SHALL MEET THE MAXIMUM AIR LEAKAGE REQUIREMENT OF 0.40 CFM/FT<sup>2</sup> WHEN TESTED IN ACCORDANCE WITH ASTM E779 AND IN ACCORDANCE WITH THE VIRGINIA ENERGY CONSERVATION CODE SECTION C402.5.

REFER TO PRE-ENGINEERED FABRIC MANUFACTURER'S SHOP DRAWING DETAILS FOR MORE INFO

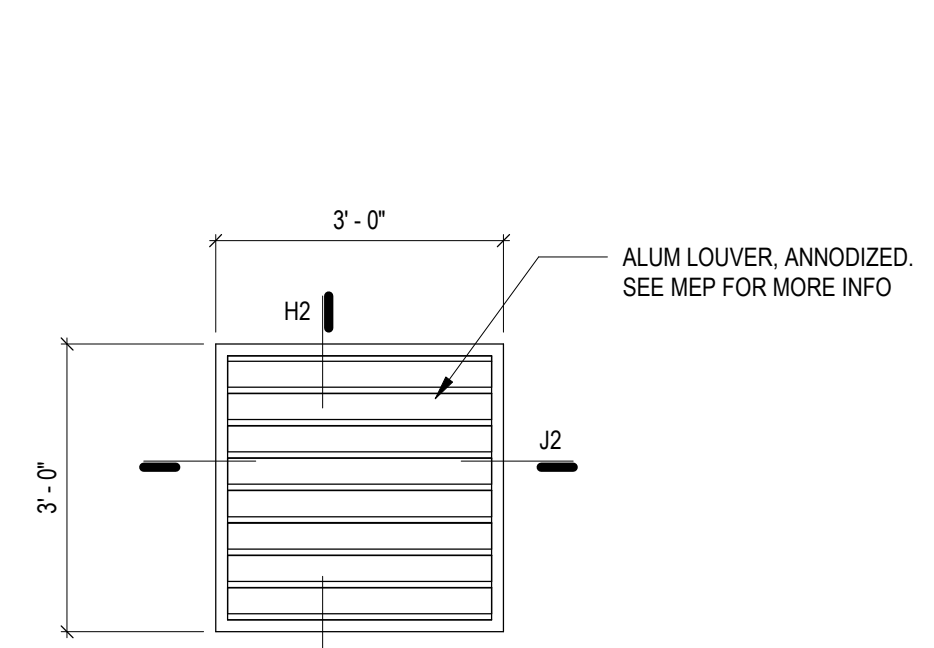


DOOR TYPE

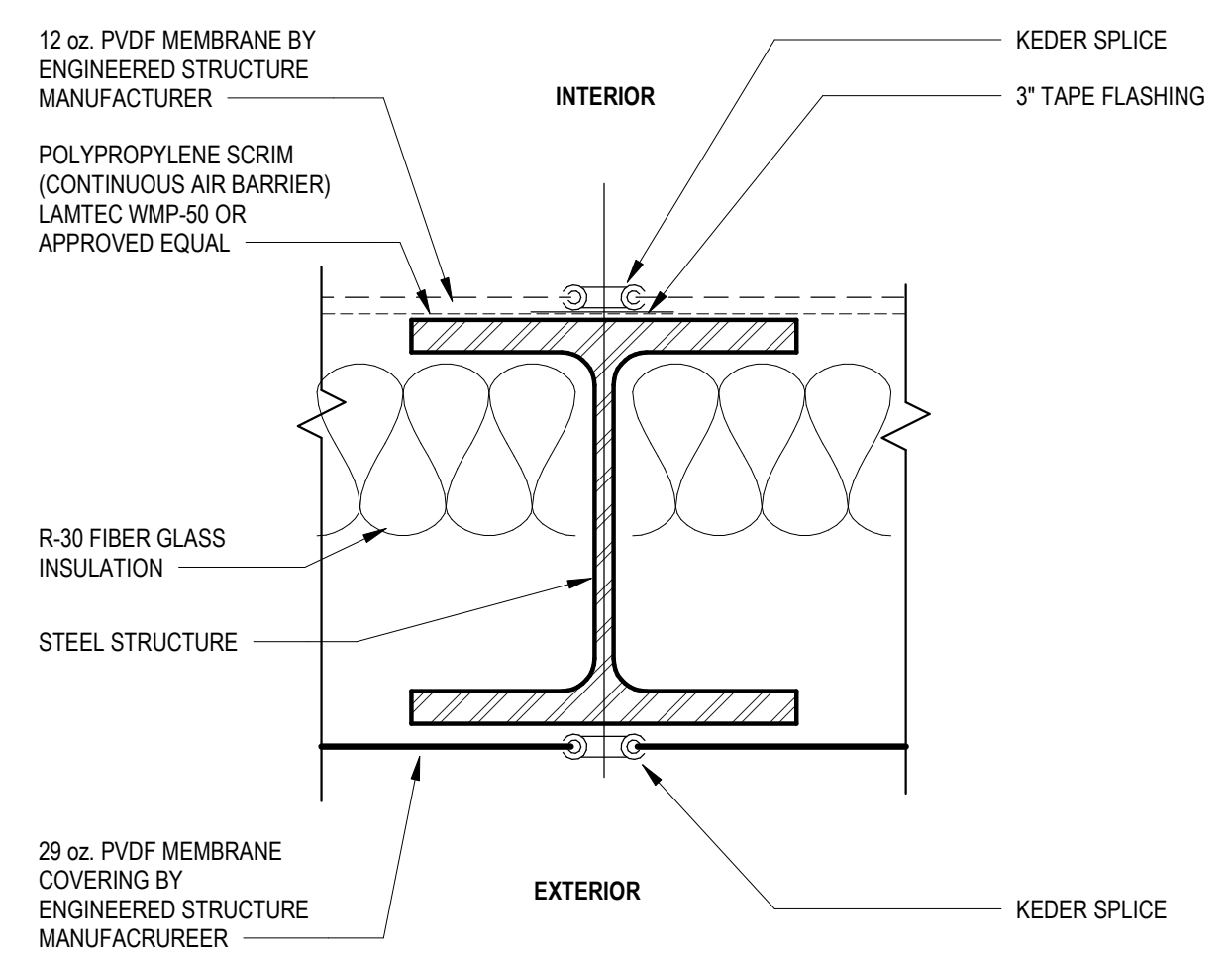
DOOR FRAME



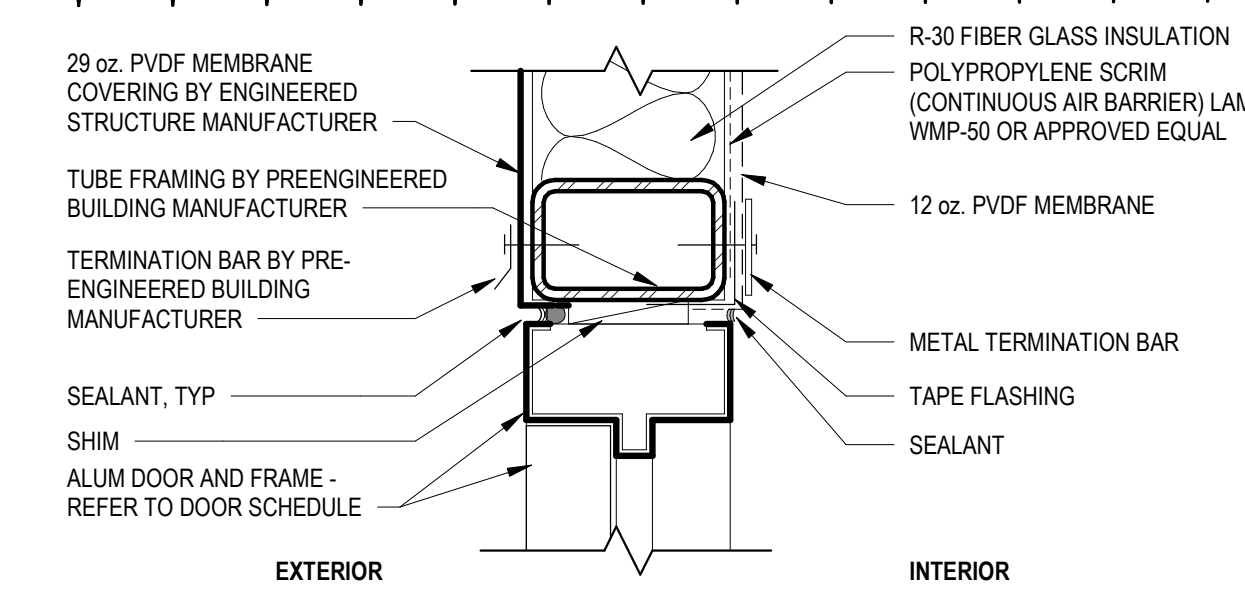
L1 LOUVER TYPE



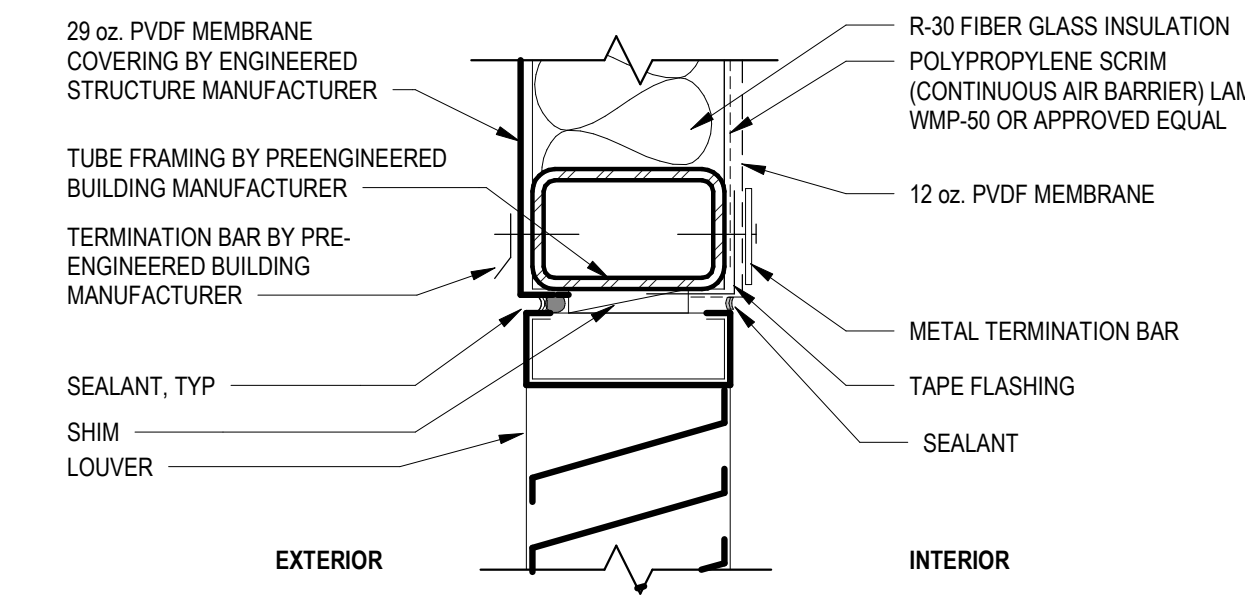
L2 LOUVER TYPE



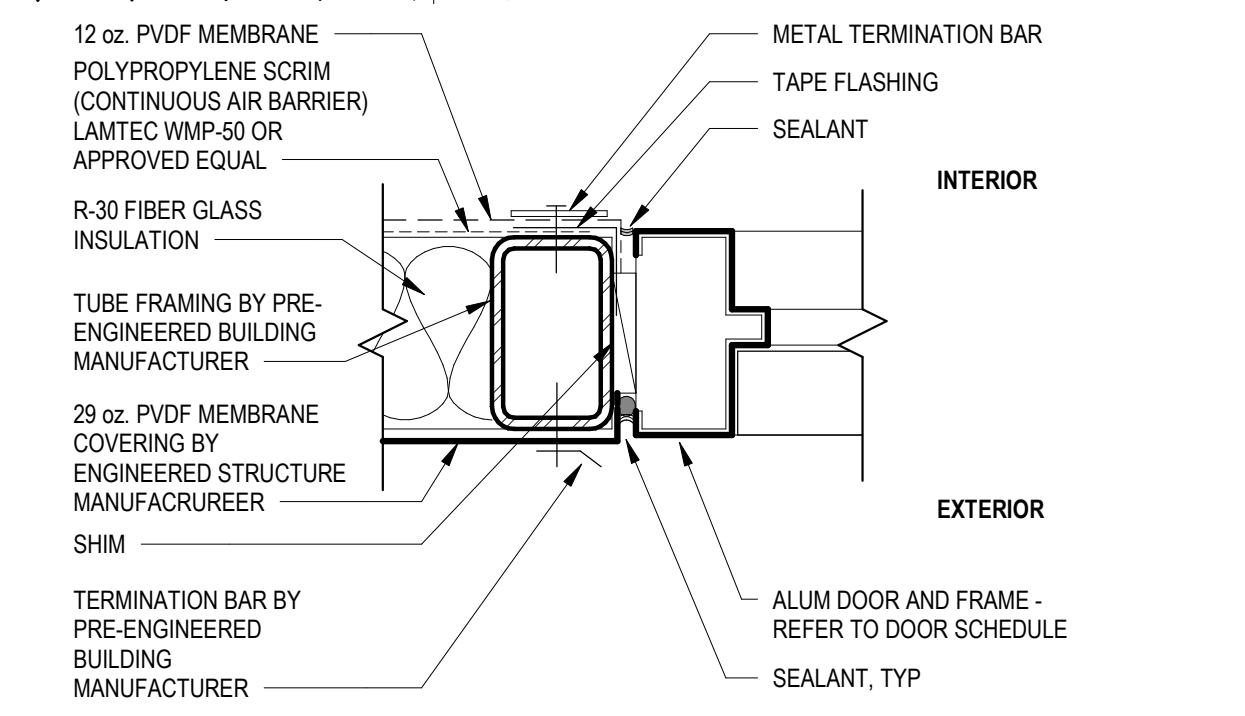
4 COLUMN PLAN  
A-711 SCALE: 3" = 1'-0"



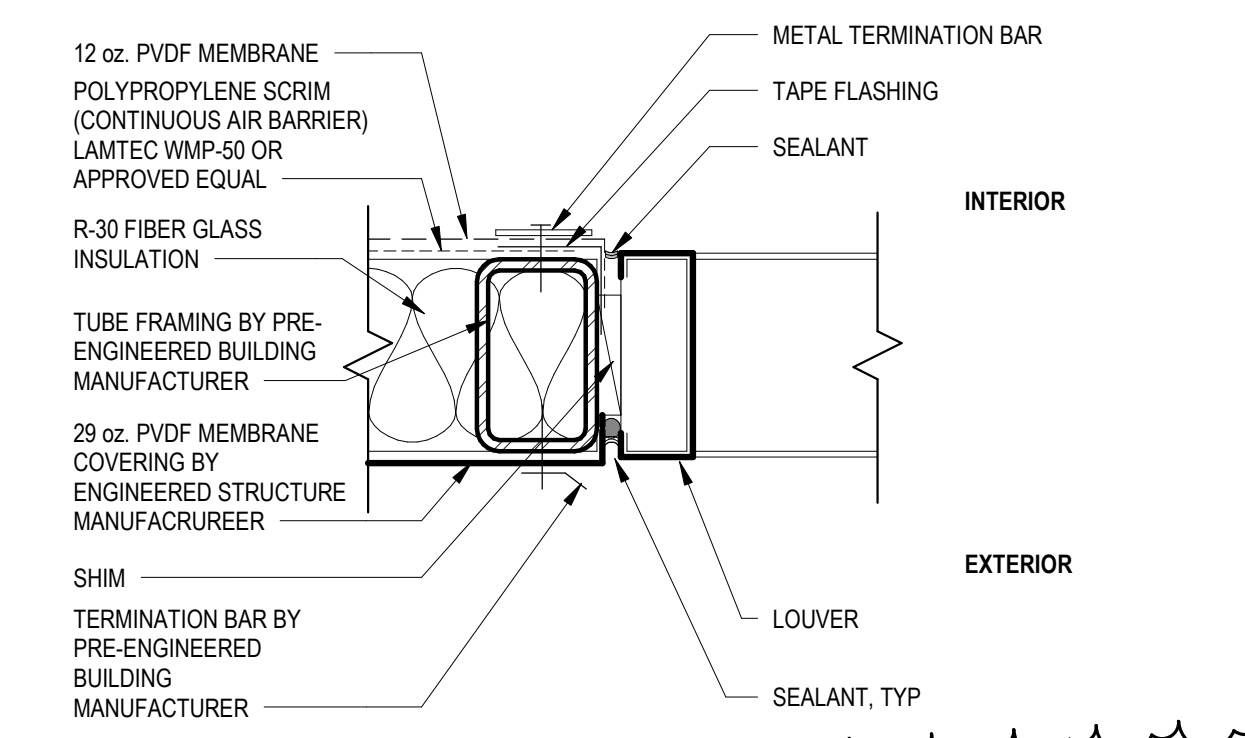
H1 - DOOR HEAD DETAIL, TYP.



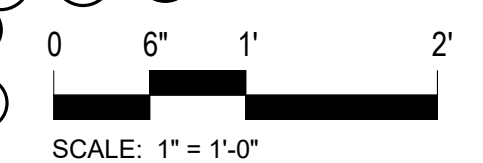
H2 - LOUVER HEAD DETAIL, TYP.



J1 - DOOR JAMB DETAIL, TYP.



J2 - LOUVER JAMB DETAIL, TYP.



ARLINGTON VIRGINIA

DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

Park Development Division  
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21-DPR-ITB-356

Project Name and Location

Gunston Park Enclosed Athletic Facility Improvements

28th Street South  
Arlington, VA

Sheet Title

DOOR SCHEDULE & BUILDING DETAILS

Approvals \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Date	Revisions	
1/15/21	Revision 1	1
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Drawn: **KN**  
Checked: **BV**

Filename: \_\_\_\_\_  
Plotted: \_\_\_\_\_

Scale: AS INDICATED  
Date: 5/26/20



PERMIT SUBMISSION

Sheet Number:

A-711

ARLINGTON  
VIRGINIA

DEPARTMENT OF PARKS,  
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Phone: 703.228.3323  
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21-DPR-ITB-356

Project Name and Location

**Gunston Park  
Enclosed  
Athletic Facility  
Improvements**

28th Street South  
Arlington, VA

Sheet Title

**DOOR DETAILS**

Approvals \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Date	Revisions	
1/15/21	Revision 1	1
5/07/21	Revision 3	3

Designed:

Drawn: **KN**

Checked: **BV**

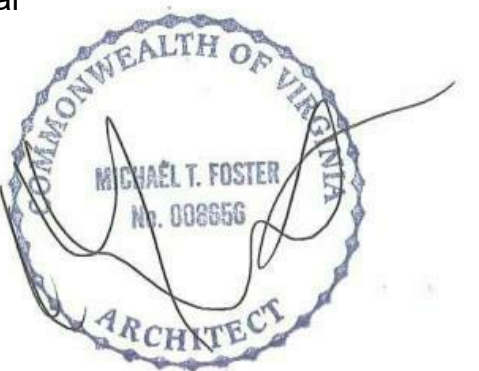
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Plotted:

Scale: AS INDICATED

Date: **5/26/20**

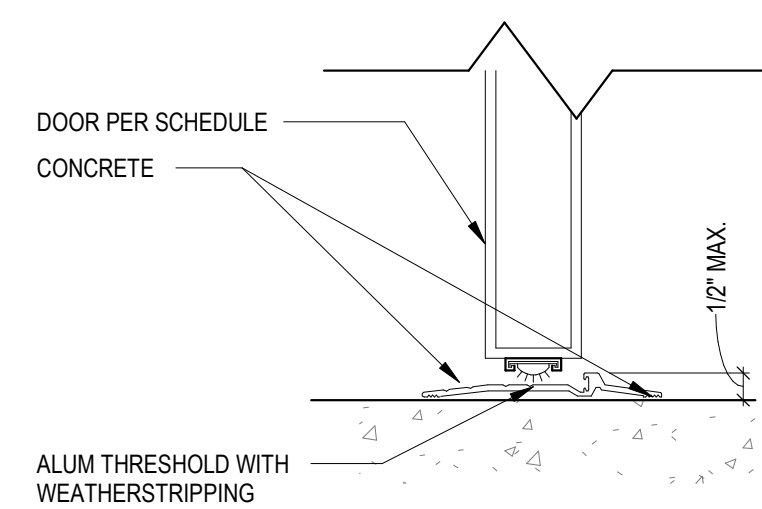
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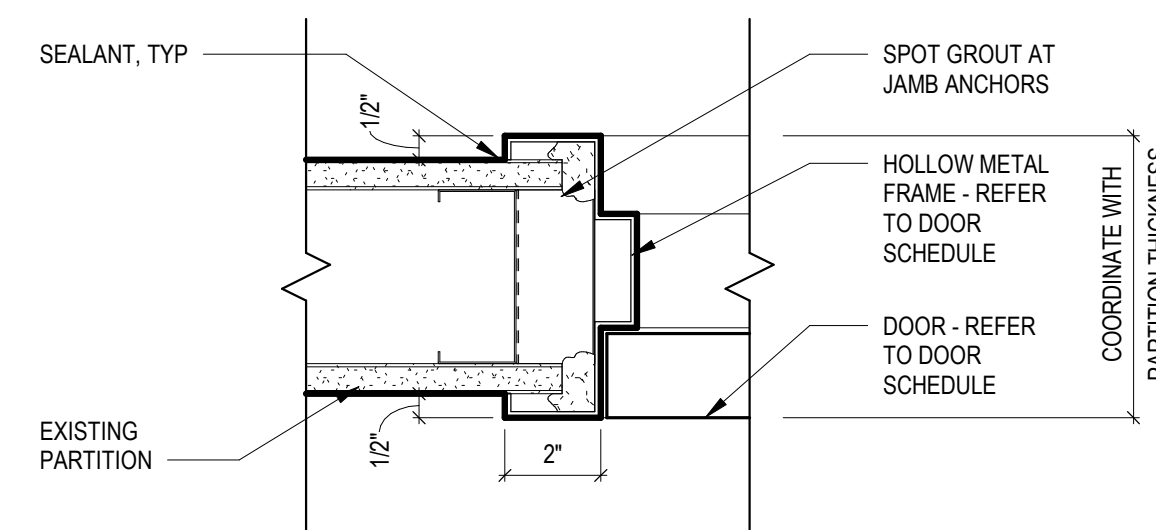
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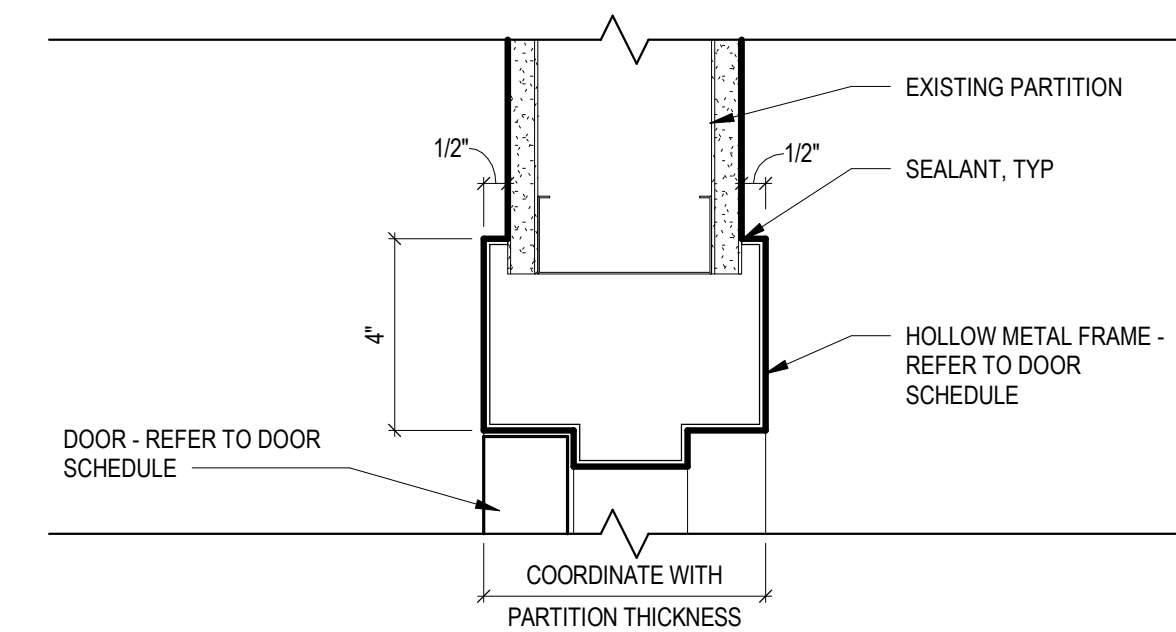
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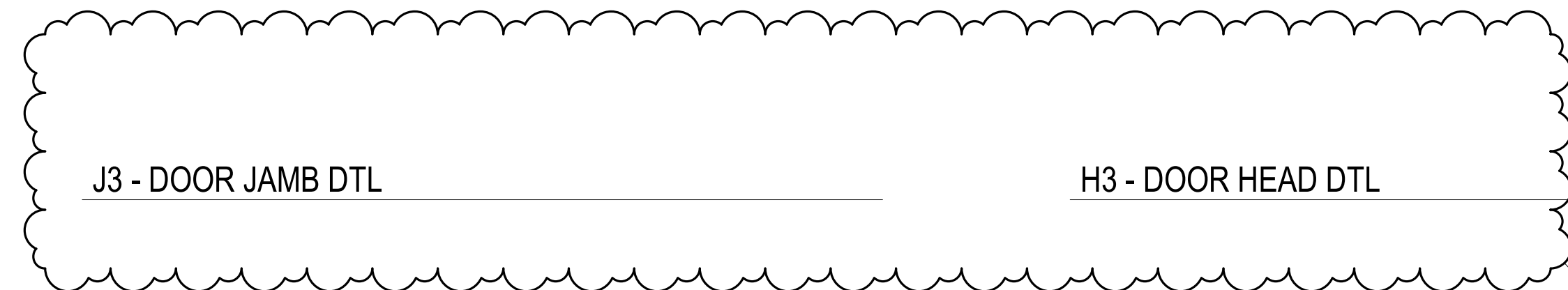
S2 - DOOR THRESHOLD



J3 - DOOR JAMB DTL

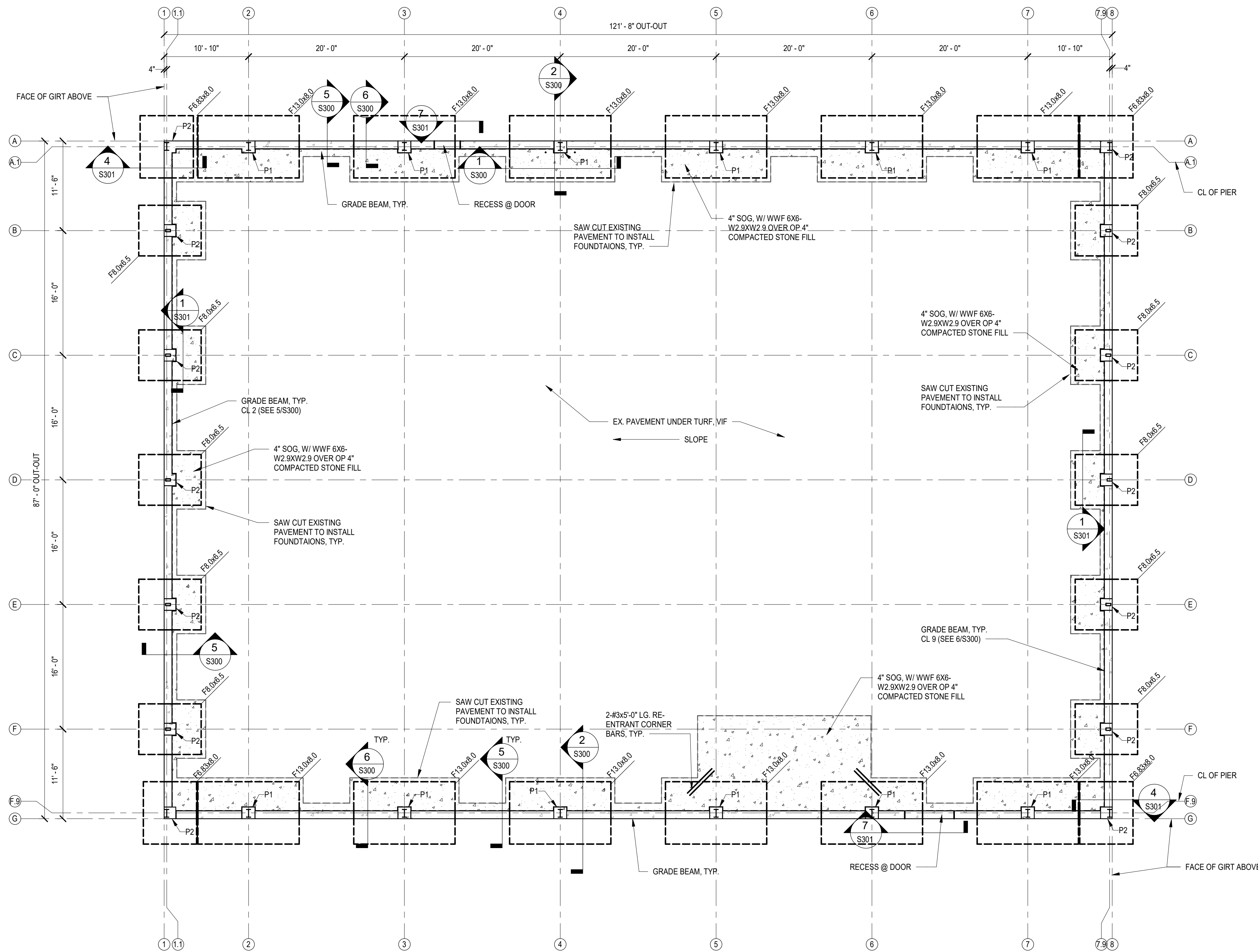


H3 - DOOR HEAD DTL









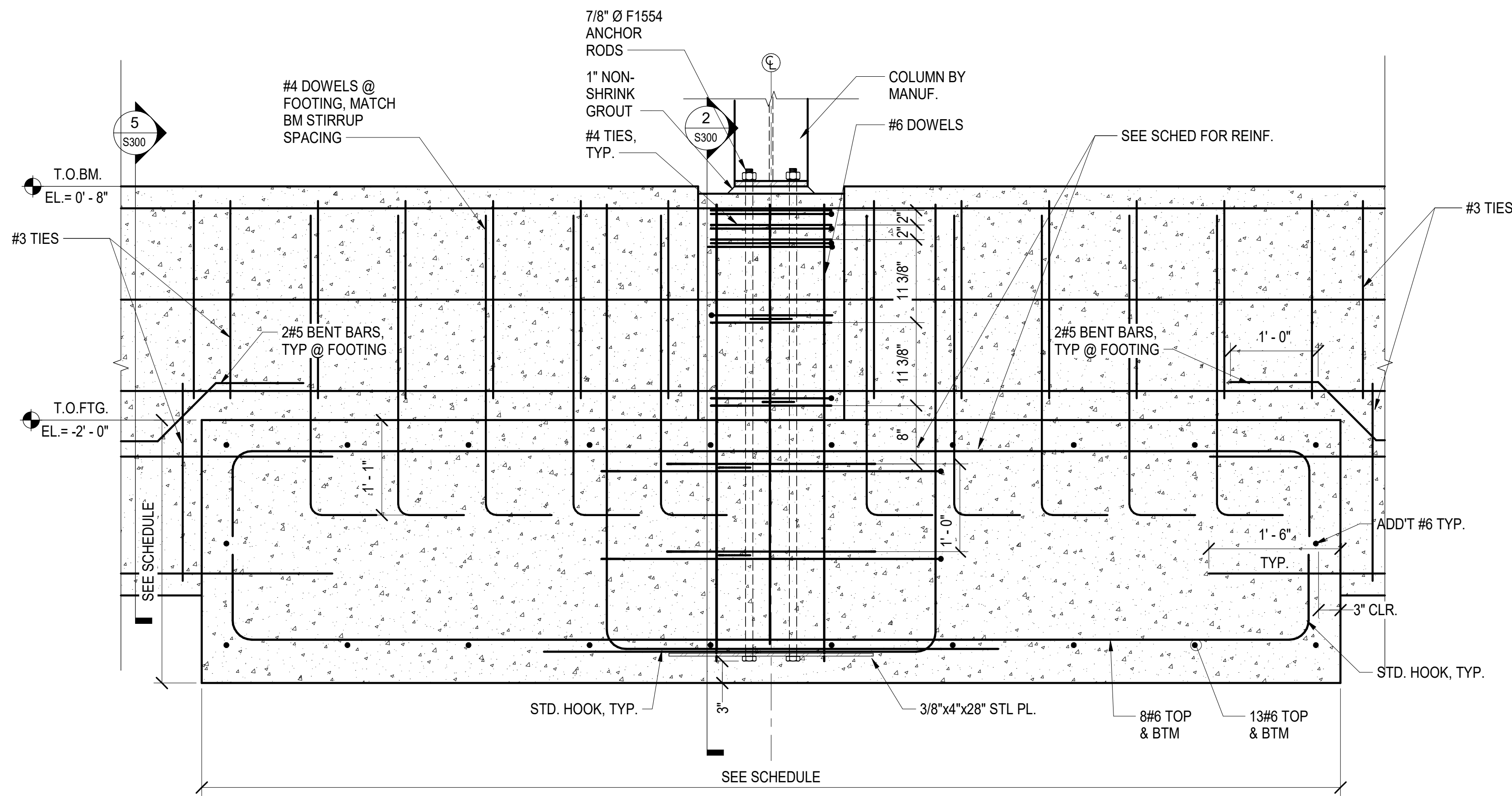
1 FOUNDATION PLAN  
S100 SCALE: 1/8" = 1'-0"

FOOTING SCHEDULE								
MARK	LENGTH	WIDTH	THICKNESS	BAR QTY (SHORT)	BAR #	BAR QTY (LONG)	BAR #	REMARKS
F6.83x8.0	8'-0"	6'-10"	36"	8	6	8	6	TOP & BOT
F8.0x6.5	8'-0"	6'-6"	24"	8	6	7	6	TOP & BOT
F13.0x8.0	13'-0"	8'-0"	36"	13	6	8	6	TOP & BOT

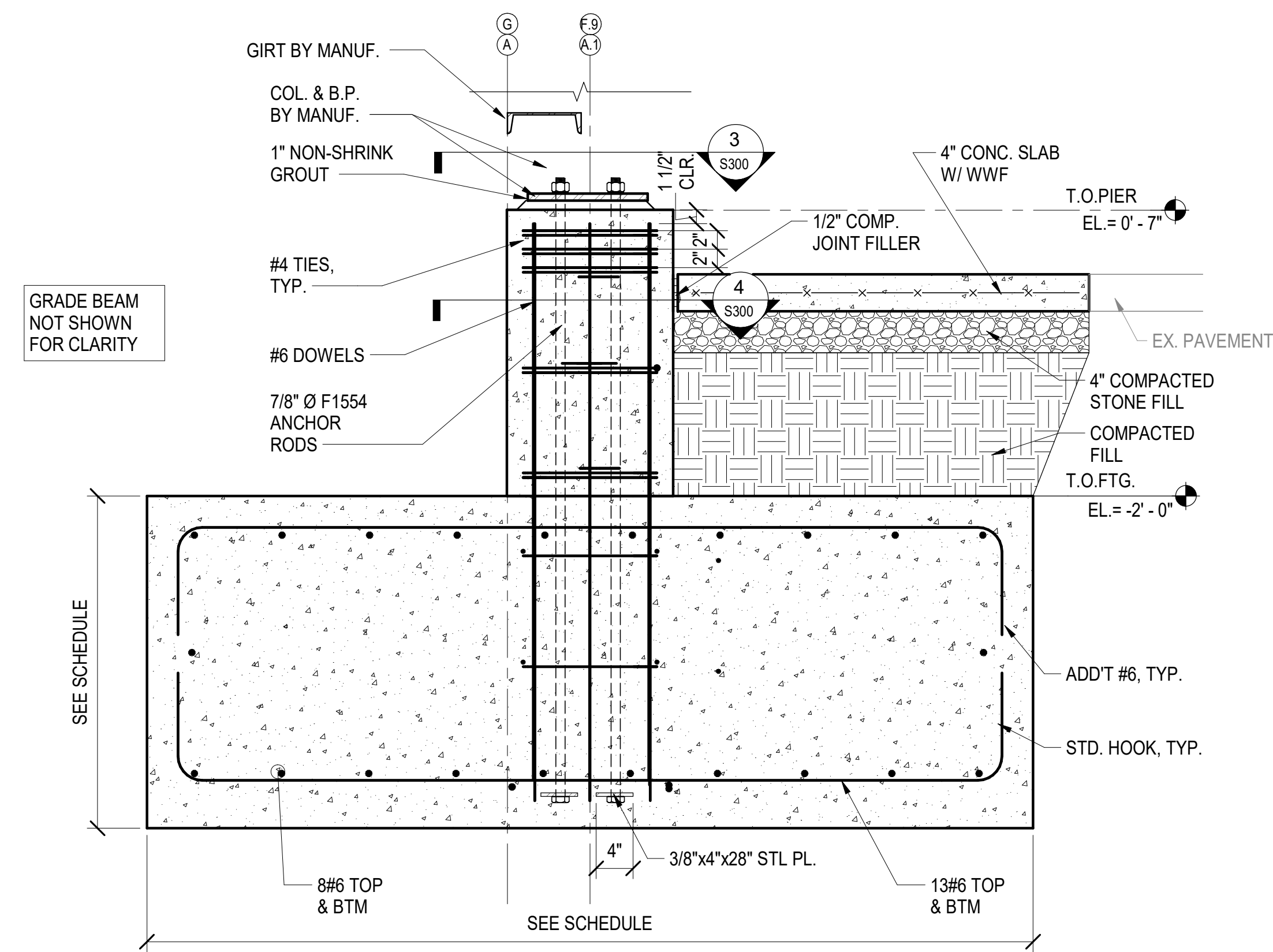
PIER SCHEDULE			
MARK	LENGTH x WIDTH	VERT. BARS	HORZ. TIES
P1	1'-8" x 1'-6"	6#6	#4, SEE SECT.
P2	1'-6" x 1'-6"	6#6	#4, SEE SECT.

NOTES:

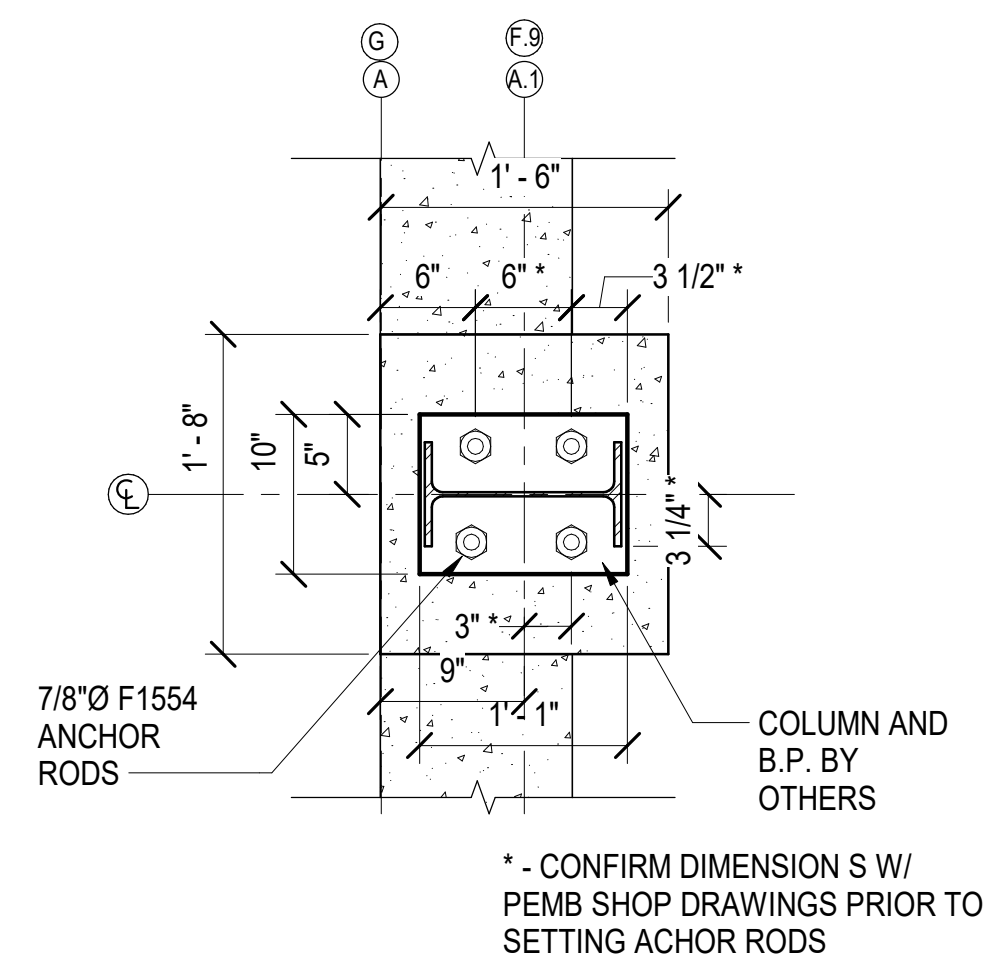
- TOP OF GRADE BEAM = 8" (REF ELEV. 27.67') ABOVE DATUM FINISHED FLOOR ELEVATION 0'-0", SEE ARCHITECTURAL DRAWINGS.
- TOP OF FOOTING SHALL BE -2'-0" FROM FINISHED GRADE, U.N.O.
- CONTRACTOR SHALL COORDINATE FOUNDATIONS, PIER AND ANCHOR BOLTS WITH THE PRE-ENGINEERED METAL BUILDING MANUFACTURER DRAWINGS
- SEE S001 FOR STRUCTURAL GENERAL NOTES
- P# INDICATES PIER MARK, SEE SCHEDULE THIS SHEET
- F# INDICATES FOOTING MARK, SEE SCHEDULE THIS SHEET



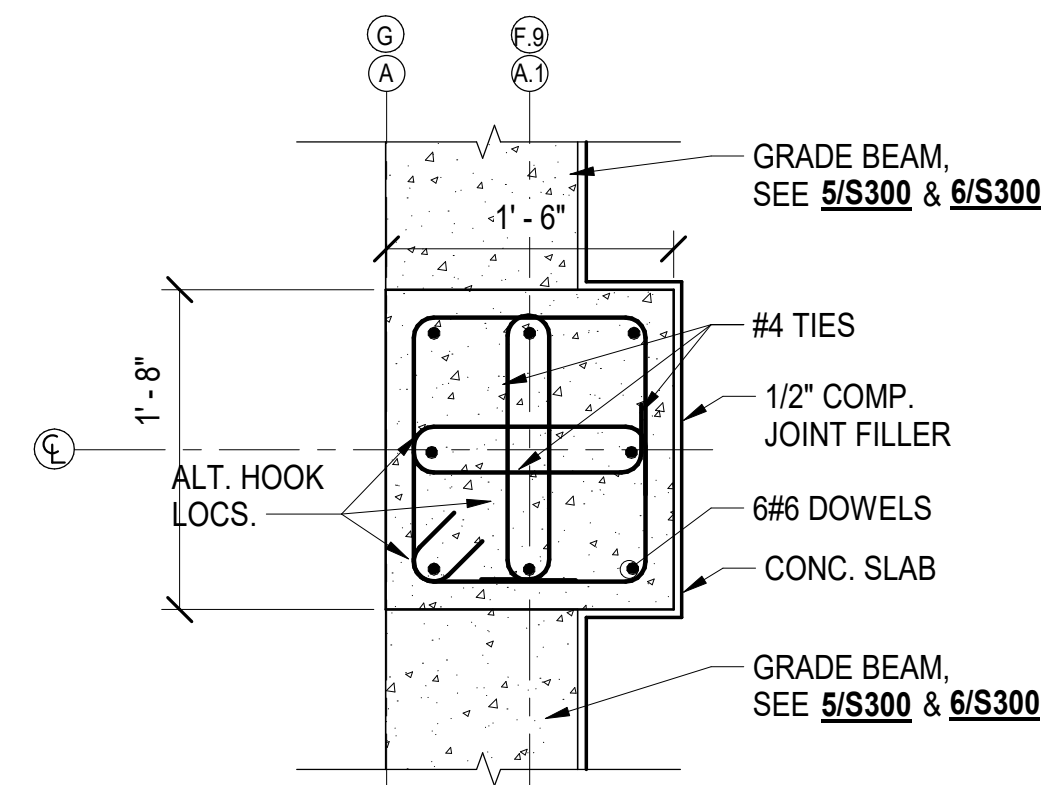
**1** TYP SECTION COL LINES 4-8 ON A.1 & F.9  
S300 SCALE: 1" = 1'-0"



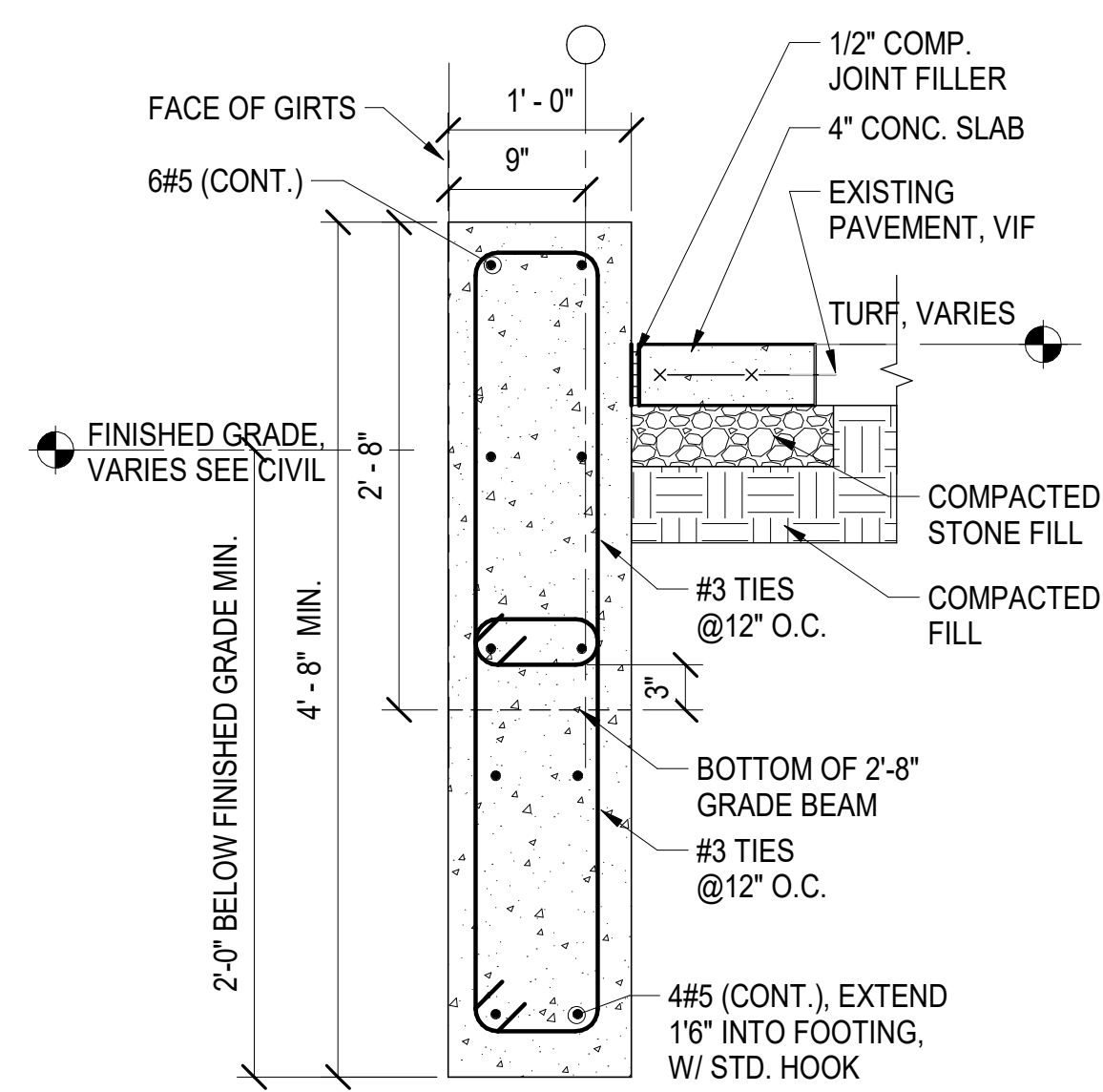
**2** SECTION  
S300 SCALE: 1" = 1'-0"



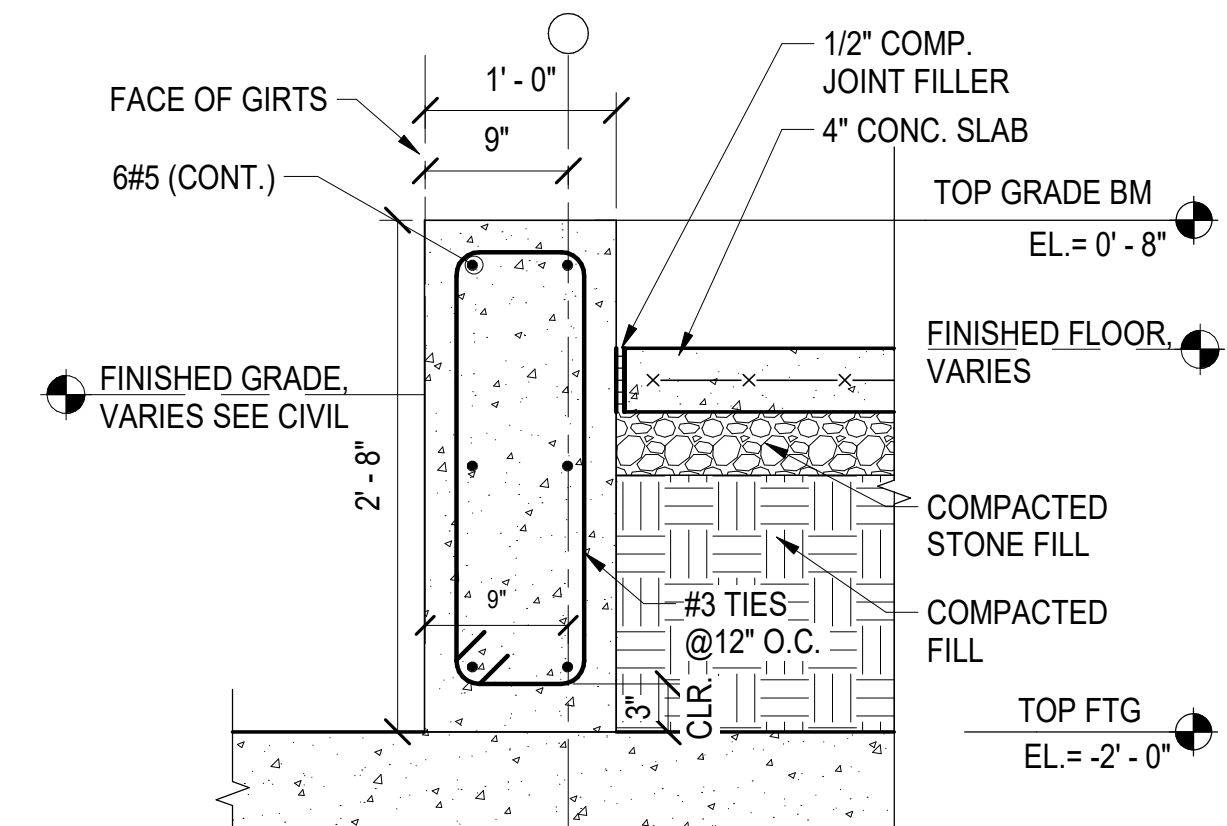
**3** BASE PLATE DETAIL  
S300 SCALE: 1" = 1'-0"



**4** PIER PLAN DETAIL  
S300 SCALE: 1" = 1'-0"

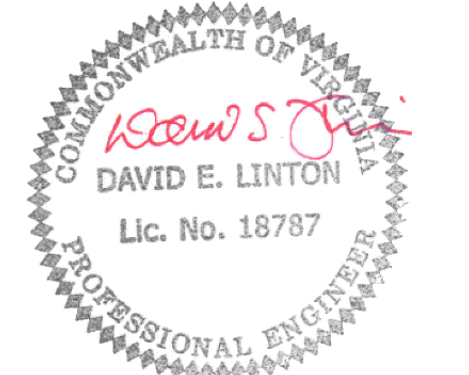


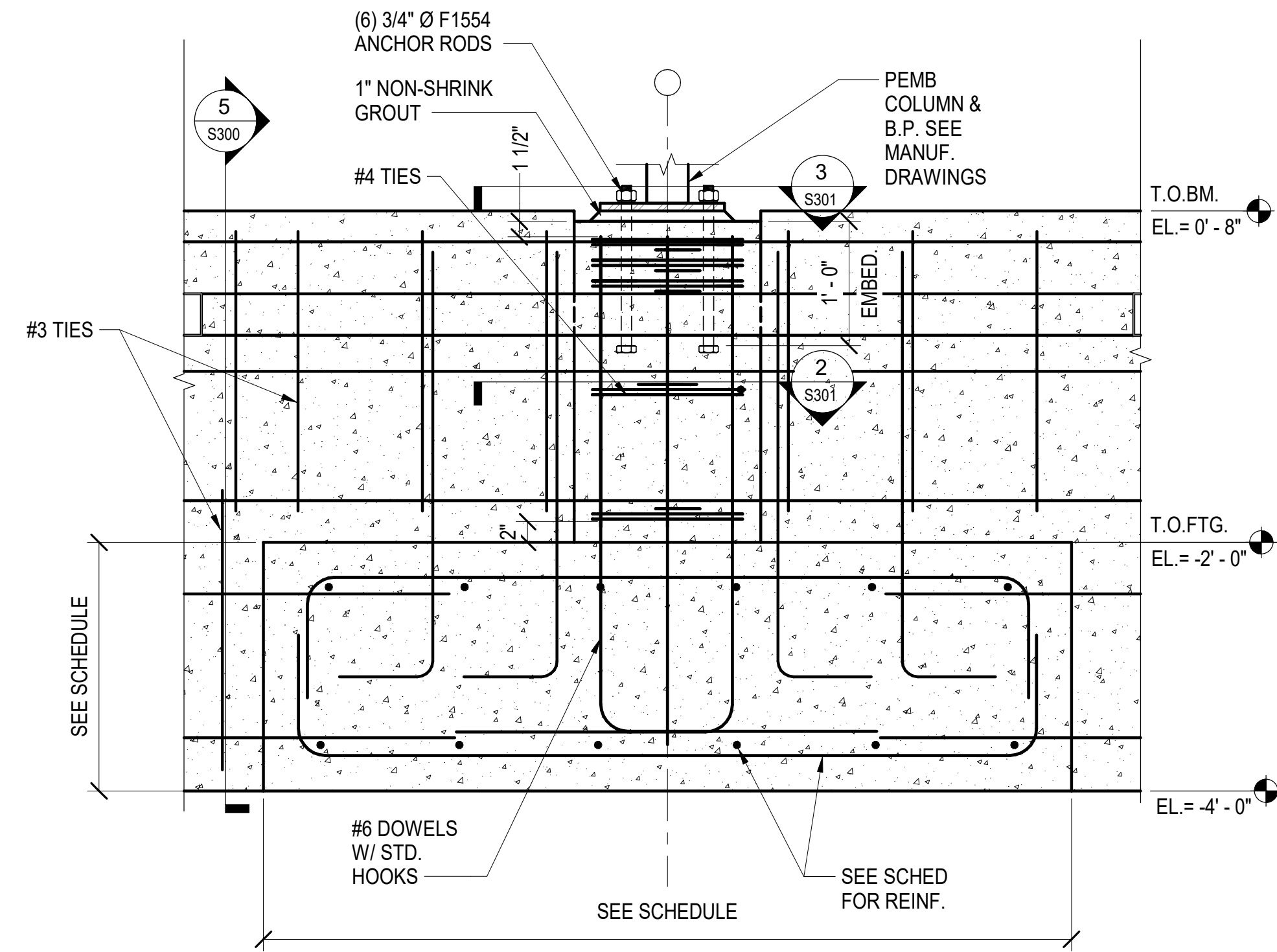
**5** TYP. GRADE BEAM BTWN FOOTINGS  
S300 SCALE: 1" = 1'-0"



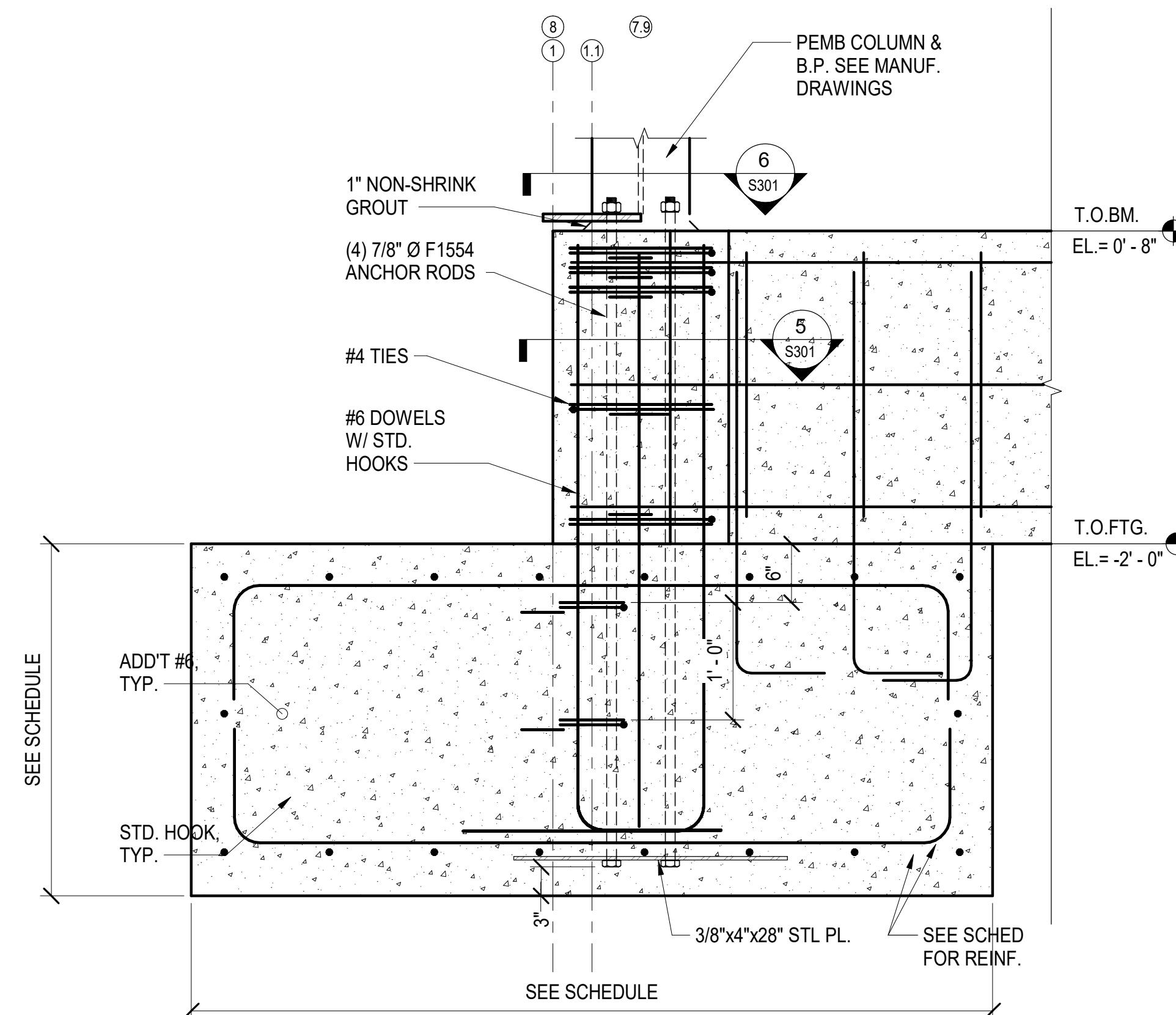
**6** TYP. GRADE BEAM  
S300 SCALE: 1" = 1'-0"

Date	Revision	
5/26/20	Permit Submission	
1/15/21	Revision 1	1
3/16/21	Revision	2
4/26/21	Bid Set	

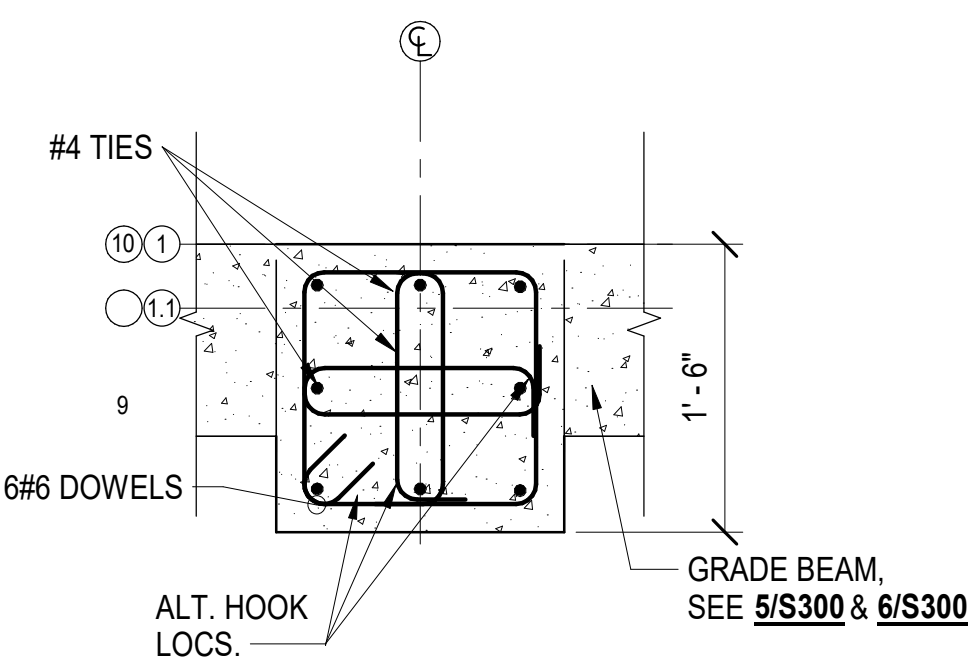




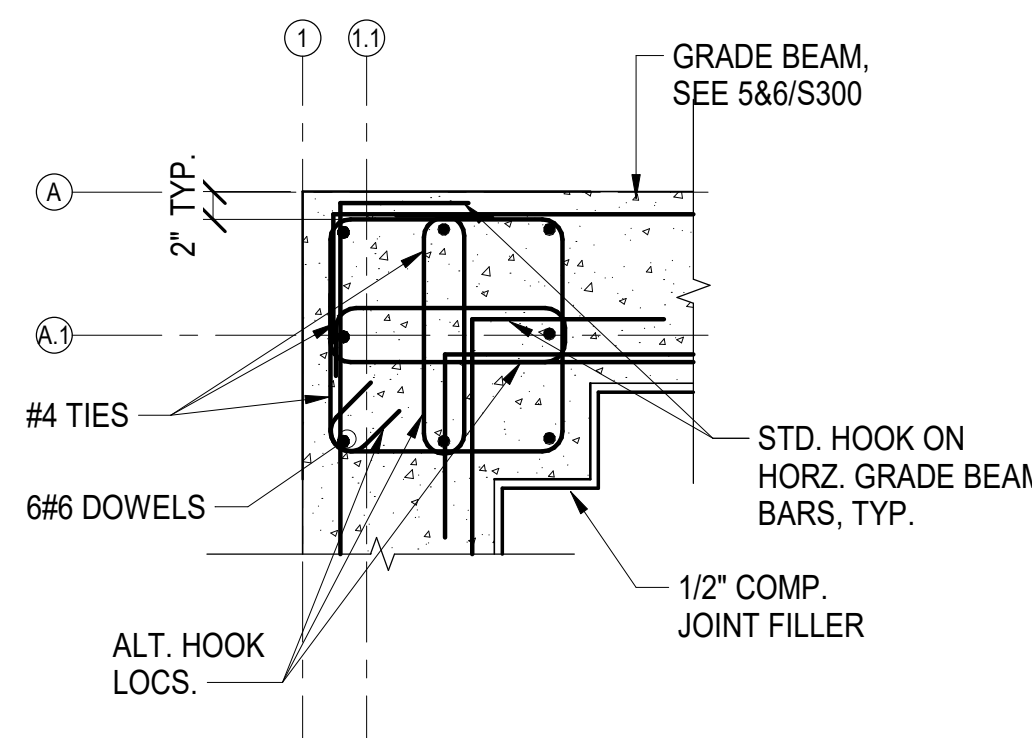
**1 SECTION TYP COL LINES B-F/2 & 9**  
S301 SCALE: 1" = 1'-0"



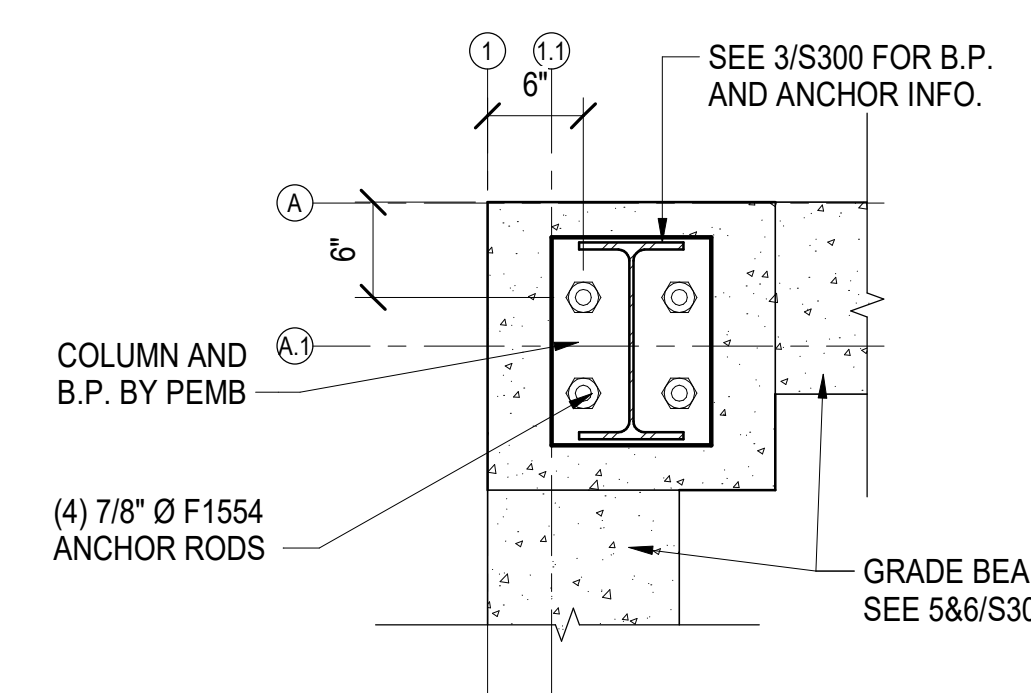
**4 SECTION**  
S301 SCALE: 1" = 1'-0"



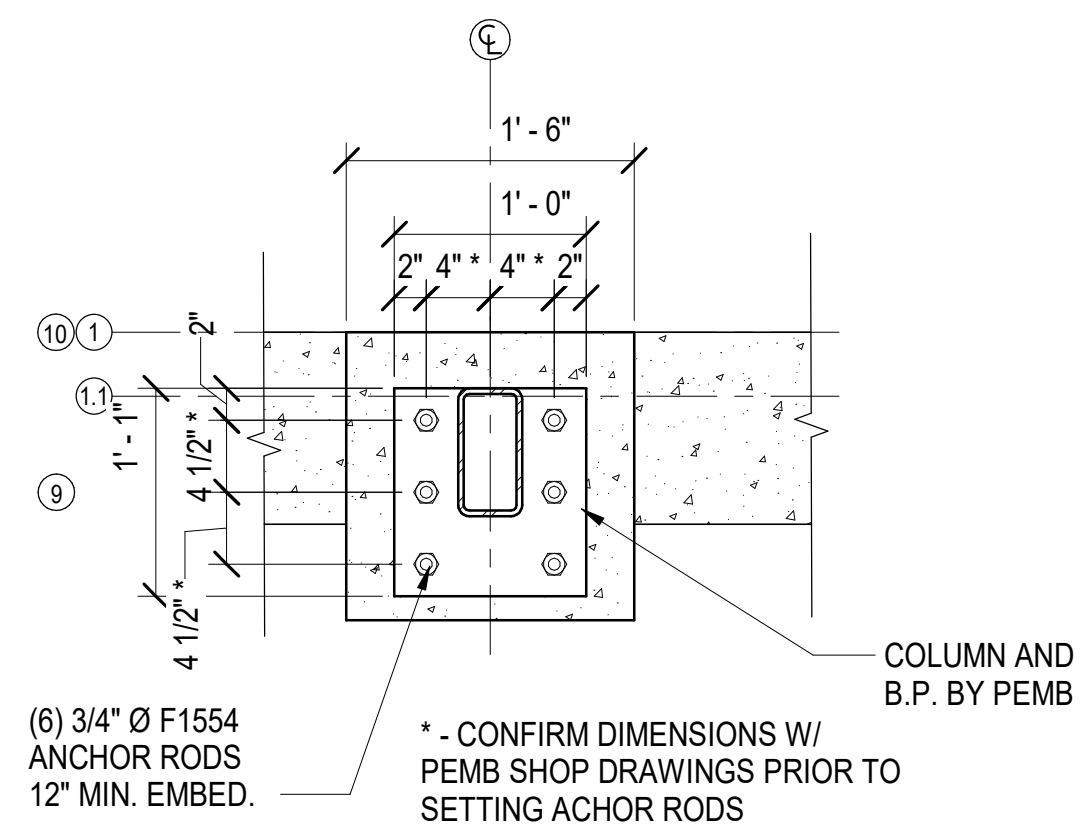
**2 PIER PLAN DETAIL**  
S301 SCALE: 1" = 1'-0"



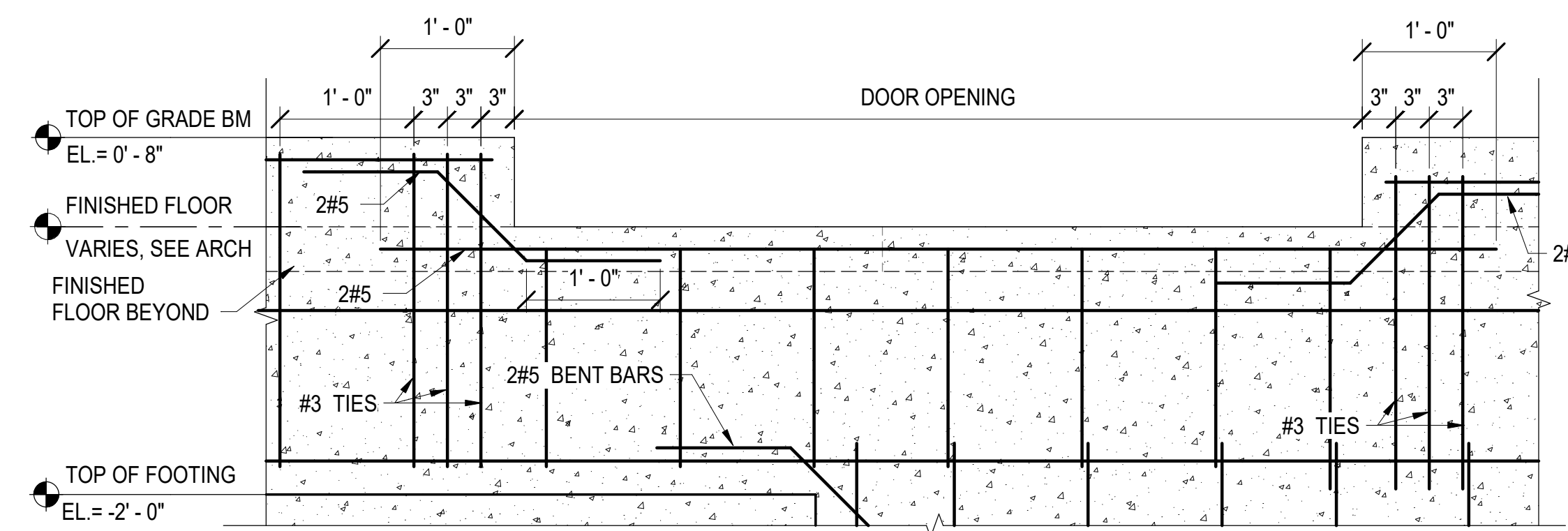
**5 PIER PLAN DETAIL**  
S301 SCALE: 1" = 1'-0"



**6 BASE PLATE DETAIL**  
S301 SCALE: 1" = 1'-0"



**3 BASE PLATE DETAIL**  
S301 SCALE: 1" = 1'-0"



**7 TYP SECTION @ DOOR**  
S301 SCALE: 1" = 1'-0"

**ARLINGTON**  
VIRGINIA

DEPARTMENT OF PARKS,  
RECREATION AND  
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**21-DPR-ITB-356**

Project Name and

**Gunston Park  
Enclosed  
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Improvements**

28th Street South  
Arlington, VA

Sheet

SECTIONS AND DETAILS

Approval \_\_\_\_\_ Dat \_\_\_\_\_

Department \_\_\_\_\_

Park Development Division

Design Unit \_\_\_\_\_

Date	Revision	
5/26/20	Permit Submission	△
1/15/21	Revision 1	1
3/16/21	Revision	2
4/26/21	Bid Set	

Designed  
Draw **CE**  
Checked **DL**

Filename:  
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Scale: AS INDICATED  
Date **04/26/2021**

Seal



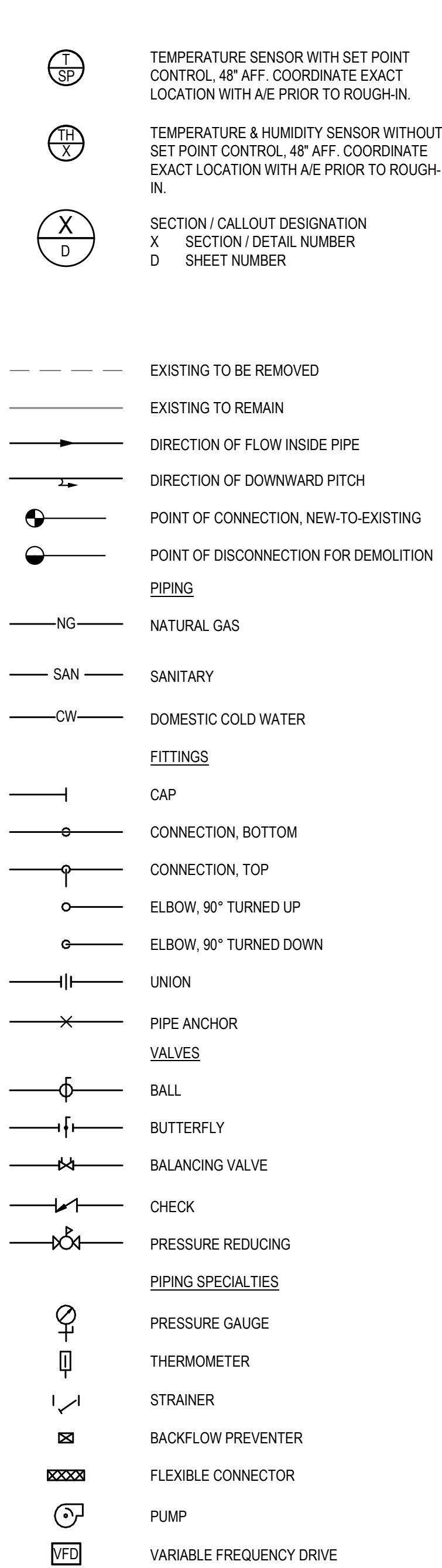
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**S301**

**ABBREVIATIONS**

A	AMPERE	GAL	GALLON
ABV	ABOVE	GALV	GALVANIZED
A/E	ARCHITECT/ENGINEER	H	HUMIDIFIER
ACT	ACOUSTICAL CEILING TILE	HB	HOSE BIBB
AD	ACCESS DOOR	HP	HEAT PUMP, HORSEPOWER
AF	ABOVE FINISHED FLOOR	HVAC	HEATING, VENTILATION & AIR CONDITIONING
AFMS	AIR FLOW MONITORING STATION	HW	HEATING WATER (S-SUPPLY)
AFR	ABOVE FINISHED ROOF		
AFUE	AIR FLOW UTILIZATION EFFICIENCY		
AHU	AIR HANDLING UNIT	IN	INCH, INCHES
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	LAT	LEAVING AIR TEMPERATURE
APD	AIR PRESSURE DROP	LBS, #	POUNDS
APPROX	APPROXIMATELY	LBS/HR	POUNDS PER HOUR
ARCH	ARCHITECT	MA	MIXED AIR
ARCHL	ARCHITECTURAL	MAD	MAKE-UP AIR DUCT
ARI	AMERICAN REFRIGERATION INSTITUTE	MAX	MAXIMUM
AS	AIR SEPARATOR	MBH	THOUSAND BTUH
ASHRAE	AMERICAN SOCIETY OF HEATING AND REFRIGERATION AND AIR-CONDITIONING ENGINEERS	MCA	MINIMUM CIRCUIT AMPS
		MFR	MANUFACTURE
ATC	AUTOMATIC TEMPERATURE CONTROL	MOP	MAXIMUM OVERCURRENT PROTECTION
ATU	AIR TERMINAL UNIT	MTD	MOUNTED
AUX	AUXILIARY	NIS	NOT TO SCALE
BAS	BUILDING AUTOMATION SYSTEM	CA	OUTDOOR AIR
BLDG	BUILDING	OAC	OPENING ABOVE CEILING
BTUH	BRITISH THERMAL UNITS PER HOUR	OAD	OUTSIDE AIR DUCT
CD	CEILING DIFFUSER, CONDENSATE DRAIN	OAL	OUTSIDE AIR LOUVER
CDR	CEILING DIFFUSER, ROUND	OAU	OUTSIDE AIR UNIT
CEG	CEILING EXHAUST FAN	OB	OPPOSED BLADE DAMPER
CFM	CUBIC FEET PER MINUTE	OED	OPEN END DUCT W/ 1/2" WIRE MESH
CHW	CHILLED WATER (S-SUPPLY)	NOM	NOMINAL
		NPT	NATIONAL PIPE THREAD
		PD	PRESSURE DROP
CKT	CIRCUIT	PIC	PRESSURE INDEPENDENT CONTROL
CLG	CEILING	PRV	PRESSURE REDUCING VALVE
CO	CARBON MONOXIDE	PSI	POUNDS PER SQUARE INCH
CO2	CARBON DIOXIDE	RA	RETURN AIR
CONC	CONCRETE	RAD	RETURN AIR DUCT
COND	CONDENSATE	RCP	REFLECTED CEILING PLAN
CRG	CEILING RETURN GRILLE	RG	RETURN GRILLE
CRG	CEILING RETURN GRILLE, ROUND	RHC	REHEAT COIL
CUH	CABINET UNIT HEATER	SA	SUPPLY AIR
CV	CONSTANT VOLUME	SAD	SUPPLY AIR DUCT
CW	COLD WATER, CONDENSER WATER (S-SUPPLY)	SD	DUCT SMOKE DETECTOR
		SENS	SENSIBLE
		SFD	SMOKE-FIRE DAMPER
dB	DECIBELS	SIM	SIMILAR
DB	DRY BULB	SP	STATIC PRESSURE
DDC	DIRECT DIGITAL CONTROL	SWRG	SIDEWALL RETURN GRILLE
DF	DESTRATIFICATION FAN	SWSG	SIDEWALL SUPPLY GRILLE
DIA	DIAMETER	SWTG	SIDEWALL TRANSFER GRILLE
DP	DIFFERENTIAL PRESSURE	TOD	TOP OF DUCT
DX	DIRECT EXPANSION	TRNS	TRANSITION
EA	EXHAUST AIR	TTL	TOTAL
EAD	EXHAUST AIR DUCT	TU	TERMINAL UNIT
EAL	EXHAUST AIR LOUVER	TYP	TYPICAL
EAT	EXHAUST, ENTERING AIR TEMPERATURE	UH	UNIT HEATER
EF	EXHAUST FAN	UNO	UNLESS NOTED OTHERWISE
EMS	ENERGY MANAGEMENT SYSTEM	V-PH	VOLTAGE-PHASE
EQPT	EQUIPMENT	VFD	VARIABLE FREQUENCY DRIVE
ESP	EXTERNAL STATIC PRESSURE	W	WATT
EWH	ELECTRIC WALL HEATER	WB	WET BULB
F	DEGREE FAHRENHEIT	WC	WATER COLUMN
FD	FIRE DAMPER	WPD	WATER PRESSURE DROP
FLA	FULL LOAD AMPS	WWM	WOVEN WIRE MESH
FLR	FLOOR		
FPI	FINS PER INCH		
FPM	FEET PER MINUTE		
FT	FEET OR FOOT		

**MECHANICAL LEGEND**



**GENERAL NOTES (NEW WORK)**

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH VUSBC 2015, IECC 2015 IPC 2015 AND IMC 2015.
- PROVIDE SINGLE THICKNESS, 1.1/2 INCHES SPACED, TURNING VANES IN ALL MITERED DUCTWORK ELBOWS.
- COORDINATE LOCATIONS OF ALL DEVICES, ACCESS PANELS, DIFFUSERS, GRILLES, & LOUVERS WITH ARCHITECTURAL REFLECTED CEILING PLANS, INTERIOR & EXTERIOR ELEVATIONS.
- ALL DUCTWORK DIMENSIONS CITED ARE THE INSIDE CLEAR DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR DOUBLE WALL AND DUCT LINER.
- ALL PIPING AND CONTROL WIRING SHALL BE CONCEALED IN WALLS OR ABOVE CEILINGS OF FINISHED SPACES, UNLESS NOTED OTHERWISE. IN FINISHED SPACES WITH EXPOSED STRUCTURE CEILINGS, CONTRACTOR SHALL CLOSELY COORDINATE ROUTING WITH OTHER TRADES.
- CONTRACTOR SHALL COORDINATE LOCATION OF ALL EQUIPMENT, PIPING AND DUCTWORK WITH OTHER TRADES. MAINTAIN REQUIRED SERVICE ACCESS.
- ALL EXPOSED DUCTWORK, PIPING AND ASSOCIATED COMPONENTS (INCLUDING MECHANICAL AND STORAGE SPACES) TO BE PAINTED BY DIVISION 9 CONTRACTOR.
- CUSTOM CURBS FOR EQUIPMENT PIPING OR CONDUIT SHALL BE FULLY COORDINATED WITH ROOFING WARRANTY REQUIREMENTS. COORDINATE ALL ROOF OPENINGS, ROOFING, FLASHING AND WATERPROOFING WITH OTHER TRADES. BOTTOM OF CURB SHALL SLOPE TO MATCH ROOF PITCH FOR A LEVEL INSTALLATION. CAULK / INSULATE / SEAL ANY VOIDS.
- AIRFLOW QUANTITIES INDICATED ON THE PLANS ARE FOR OCCUPIED OPERATING MODE, UNO.
- UNLESS OTHERWISE NOTED, ALL DUCT & PIPING MAINS SHALL BE INSTALLED AS HIGH AS POSSIBLE TO UNDERSIDE OF STRUCTURE. ROUTE DUCTS BETWEEN AND/OR THROUGH STRUCTURE WHERE INDICATED. VERIFY ROUTING OF DUCTS WITH CEILING HEIGHTS, STRUCTURAL SYSTEMS AND OTHER TRADES PRIOR TO DUCT FABRICATION.
- HVAC CONTRACTOR(S) SHALL COORDINATE THEIR WORK WITH ALL OTHER TRADES PRIOR TO FABRICATIONS OF SYSTEMS AND COMMENCEMENT OF INSTALLATION. IT SHALL BE THE RESPONSIBILITY OF EACH CONTRACTOR TO REVIEW THE WORK OF OTHER TRADES (INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, CIVIL, ELECTRICAL, EQUIPMENT, FIRE PROTECTION, FIRE ALARM, FOOD SERVICE, PLUMBING, AND STRUCTURAL) AS IT AFFECTS THEIR WORK, AND AS THEIR WORK AFFECTS OTHER TRADES, TO INSURE THAT THE CONSTRUCTION DOCUMENTS ARE CLOSELY FOLLOWED. WHERE DISCREPANCIES ARISE, THEY SHALL BE REFERRED TO THE A/E FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- PROVIDE MANUAL BALANCING DAMPERS IN EACH BRANCH OF SUPPLY, RETURN, VENTILATION, AND EXHAUST DUCTWORK.
- PENETRATIONS THRU FIRE RATED CEILINGS, FLOORS, PARTITIONS, OR WALLS SHALL BE SEALED TO MAINTAIN FIRE RATING INTEGRITY. REFER TO ARCHITECTURAL DRAWINGS FOR FIRESTOPPING DETAILS. PROVIDE RATED FIRE DAMPERS AS SHOWN ON THE PLANS AND AS REQUIRED.
- PENETRATIONS THRU SMOKE RATED CEILINGS, FLOORS, PARTITIONS, BARRIERS OR WALLS SHALL BE SEALED TO MAINTAIN SMOKE RATINGS INTEGRITY. REFER TO ARCHITECTURAL DRAWINGS FOR SMOKESTOPPING DETAILS. PROVIDE RATED COMBINATION SMOKE AND FIRE DAMPERS AS SHOWN ON THE PLANS AND AS REQUIRED.
- DO NOT INSTALL BULL HEAD TEES IN PIPING SYSTEMS.
- COORDINATE WORK PRIOR TO INSTALLATION OF ARCHITECTURAL FINISHES AS REQUIRED.
- CONTRACTOR SHALL PROVIDE COORDINATED SHOP DRAWINGS OF DIVISION 23 SYSTEMS. SHOP DRAWINGS SHALL BE PREPARED IN ELECTRONIC FORMAT AND SUBMITTED IN PRINTED FORM.
- INSTALL ALL HVAC WALL MOUNTED SENSORS 48" AFF. MEASURED FROM TOP OF OUTLET BOX, UNO.
- THE DESIGN IS BASED ON MANUFACTURERS AND MODELS INDICATED, AND IS INTENDED TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS AND/OR SUPPORT FOR EQUIPMENT OR SYSTEM OR SYSTEMS SPECIFIED WITH RELATION TO THE OTHER BUILDING/SYSTEMS. SEE SPECIFICATION SECTIONS FOR TECHNICAL REQUIREMENTS.
- NOMENCLATURE FOR FINAL ROOM NAMES AND NUMBERS MAY VARY FROM THE CONSTRUCTION DOCUMENTS. FINAL NAMES AND NUMBERS USED IN THE SHOP DRAWINGS, EQUIPMENT TAGS, EMS LABELING AND GLOUSEOUT DOCUMENTATION SHALL BE COORDINATED WITH FINAL ROOM NAMES AND NUMBERS ASSIGNED BY THE OWNER AND ARCHITECT.

**GENERAL NOTES (DEMO)**

- PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS, AND TO VERIFY LOCATION, SIZE AND QUANTITY OF ITEMS TO BE REMOVED. SUBMITTAL OF A BID SHALL SIGNIFY WILLINGNESS TO COMPLY WITH THE DESIGN AND ACCEPTANCE OF ON-SITE CONDITIONS AS THEY EXIST.
- DOCUMENTATION OF EXISTING SYSTEMS IS BASED ON AVAILABLE RECORD DRAWINGS AND NON-INVASIVE FIELD OBSERVATION. MAJOR DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
- EXISTING COMPONENTS EMBEDDED WITHIN OR BENEATH THE EXISTING STRUCTURE MAY BE ABANDONED IN PLACE. CUT BEHIND WALL/FLOOR/CEILING/ROOF SURFACE AS REQUIRED FOR PATCHING OF FINISH. SYSTEMS SHALL BE CAPPED WATER TIGHT.
- WHERE EXISTING MECHANICAL SYSTEMS BEING REMOVED PENETRATE EXTERIOR WALLS/ROOF, CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING SUCH PENETRATIONS TO MATCH EXISTING, UNO.
- PROVIDE TEMPORARY SUPPORT AND/OR MODIFY EXISTING MECHANICAL COMPONENTS WHERE ROOF DECK IS REPLACED TO ENSURE CONTINUED SYSTEM OPERATION DURING CONSTRUCTION. REFER TO ARCHL DRAWINGS FOR SCOPE OF ROOFING WORK AND ADDITIONAL DETAILS.
- PRIOR TO COMMENCING DEMOLITION, PRE-CONSTRUCTION TESTING ADJUSTING AND BALANCING (TAB) AIRFLOW AND WATER FLOW READINGS SHALL BE TAKEN AT ALL TERMINAL DEVICES AND AIRFLOW READINGS SHALL BE TAKEN AT ALL SUPPLY AND RETURN DIFFUSERS WITHIN AREA OF WORK. SUBMIT PRE-CONSTRUCTION TAB REPORT TO THE A/E FOR REVIEW.

OAF-1 VENTILATION OUTDOOR AIR COMPLIANCE TABLE														
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Room Number	Description	Area (ft²) (Az)	Area Outdoor Air Rate per VMC Table 403.3 (Ra)	Area Outdoor Air (RaAz)	Occupant Load Rate per VMC Table 403.3 (People/1000 ft²)	Occupancy C x F/1000 (Pz)	Occupant Outdoor Air Rate per VMC Table 403.3 (Rp)	Occupant Outdoor Air (RpPz)	Breathing Zone Outdoor Air (Vbz = RpPz + RaAz)	Zone Air Distribution Effectiveness (Ez)	Zone Outdoor Air (Voz = Vbz / Ez)	Zone Primary Airflow (Vpz)	Code Required Exhaust Airflow (cfm)	Zone Design Exhaust Airflow (cfm)
GUNSTON BUBBLE 1	Gym, sports arena (play area)	10485	0.18	1887	7	49	20	980	2867	0.8	3584	3,600	-	-
<b>Totals</b>		<b>10485</b>	<b>1887</b>			<b>49</b>		<b>980</b>	<b>2867</b>		<b>3584</b>	<b>3600</b>	<b>0</b>	<b>0</b>
<b>System Population (Ps)</b>		<b>Occupant Diversity D = Ps/Σall zones Pz</b>		<b>Uncorrected O.A. Vou = D Σall zones RpPz + Σall zones RaAz</b>		<b>Total Required Outdoor Air</b>		<b>% of Outdoor Air</b>						
Diversity →		49	1.000	2867	3584	Total Supply Air		3600		100%				

**NOTES:**  
1. THE ORIGINAL AIR SUPPORTED STRUCTURE WAS PERMITTED FOR A MAXIMUM OCCUPANCY OF 49 OCCUPANTS BY ORDER OF THE FIRE MARSHALL. THE USE OF THE BUILDING IS TO REMAIN THE SAME AND NO CHANGE IN MAX OCCUPANCY IS EXPECTED.

DESIGN CONDITIONS				
LOCATION	OUTDOOR SUMMER, dBWB	INDOOR SUMMER, dB	OUTDOOR WINTER, dB	INDOOR WINTER, dB
VA - ARLINGTON	95/76	95	15	60

**NOTES:**  
1. OUTDOOR DESIGN CONDITIONS BASED ON ASHRAE CLIMATIC DESIGN DATA.  
2. INDOOR DESIGN CONDITIONS BASED ON ASHRAE STANDARD 55-2007.

MECHANICAL	
Sheet Number	Sheet Name
M-001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
M-101	FLOOR PLAN DEMOLITION
M-102	FLOOR PLAN NEW WORK
M-301	SECTIONS AND RISERS
M-501	DETAILS
M-701	SCHEDULES
M-801	CONTROLS

**ARLINGTON**  
VIRGINIA

DEPARTMENT OF PARKS,  
RECREATION AND  
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**LEGEND,  
ABBREVIATIONS AND  
GENERAL NOTES**

Approval \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Dat	Revision	
05/26/20	Permit Submission	▲
04/26/21	Bid Set	

Designed: \_\_\_\_\_  
Drawn: **JJ**  
Checked: **LWH**

Filename: \_\_\_\_\_  
Plotted: \_\_\_\_\_

Scale: AS INDICATED  
Date: **05/26/20**

Seal

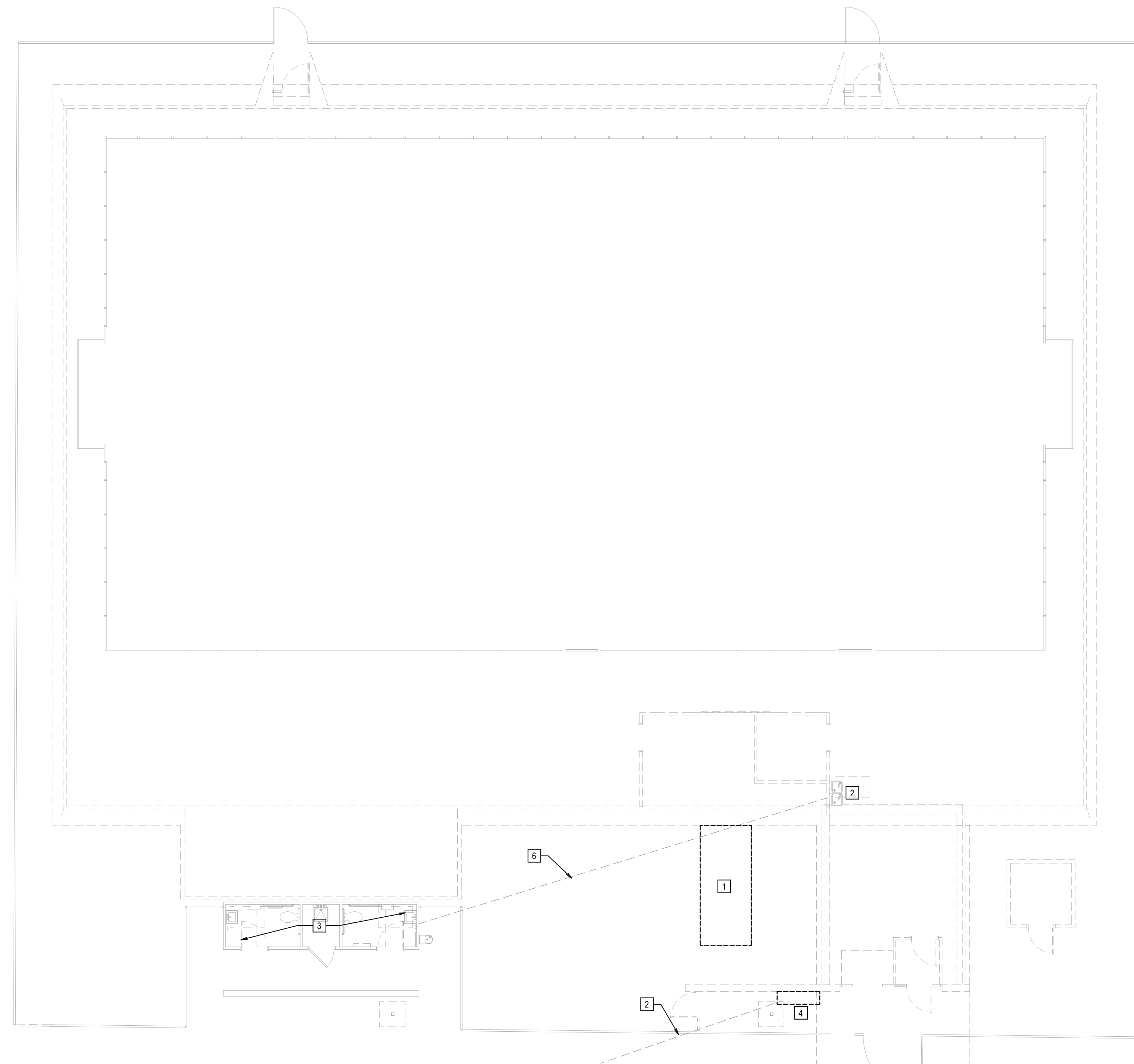
**BID SET SUBMISSION**

Sheet

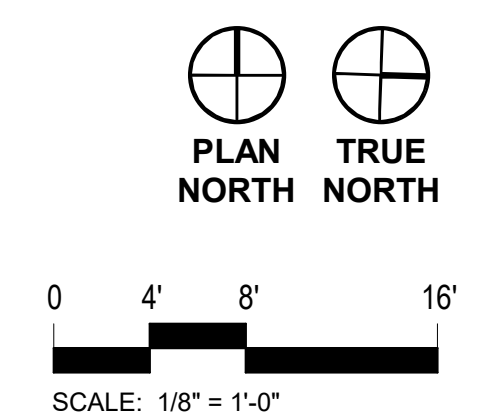
**M-001**

**KEY NOTES (DEMO)**

1. DEMOLISH THE EXISTING ON-GRADE AIR HANDLING UNIT, GAS FIRED RE-HEAT SECTION, AND ALL ASSOCIATED DUCTWORK, PIPING, POWER AND CONTROL WIRING.
2. DEMOLISH THE EXISTING DRINKING FOUNTAIN. TEMPORARILY CAP EXISTING WATER AND SANITARY PIPING AND PREPARE FOR RECONNECTION TO NEW DRINKING FOUNTAIN.
3. ALL HVAC/PLUMBING SYSTEMS INTERNAL TO THE RESTROOMS ARE EXISTING TO REMAIN AND NOT BEING MODIFIED UNDER THIS PROJECT.
4. EXISTING GAS METER AND SERVICE TO BE RELOCATED. REFER TO NEW WORK PLAN FOR NEW LOCATION. COORDINATE TEMPORARY DISCONNECTION WITH THE GAS UTILITY.
5. EXISTING UNDERGROUND GAS SERVICE TO REMAIN AND BE EXTENDED. COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY.
6. EXISTING UNDERGROUND WATERLINE TO REMAIN SERVING THE WATER FOUNTAIN.



**1 FLOOR PLAN DEMOLITION**  
 - M-101 SCALE: 1/8" = 1'-0"  
 0 2' 4' 8' 16'



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 2100 Clarendon Boulevard, Suite  
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 Arlington, VA 22201  
 Phone: 703.228.3323  
 Fax: 703.228.3328

**21-DPR-ITB-356**

Project Name and

**Gunston Park  
 Enclosed  
 Athletic Facility  
 Improvements**

28th Street South  
 Arlington, VA

Sheet

**FLOOR PLAN  
 DEMOLITION**

Approval \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Dat	Revision	
05/26/20	Permit Submission	▲
04/26/21	Bid Set	

Designed: \_\_\_\_\_  
 Drawn: JJ  
 Checked: LWH

Filename: \_\_\_\_\_  
 Plotted: \_\_\_\_\_

Scale: AS INDICATED  
 Date 05/26/20

Seal

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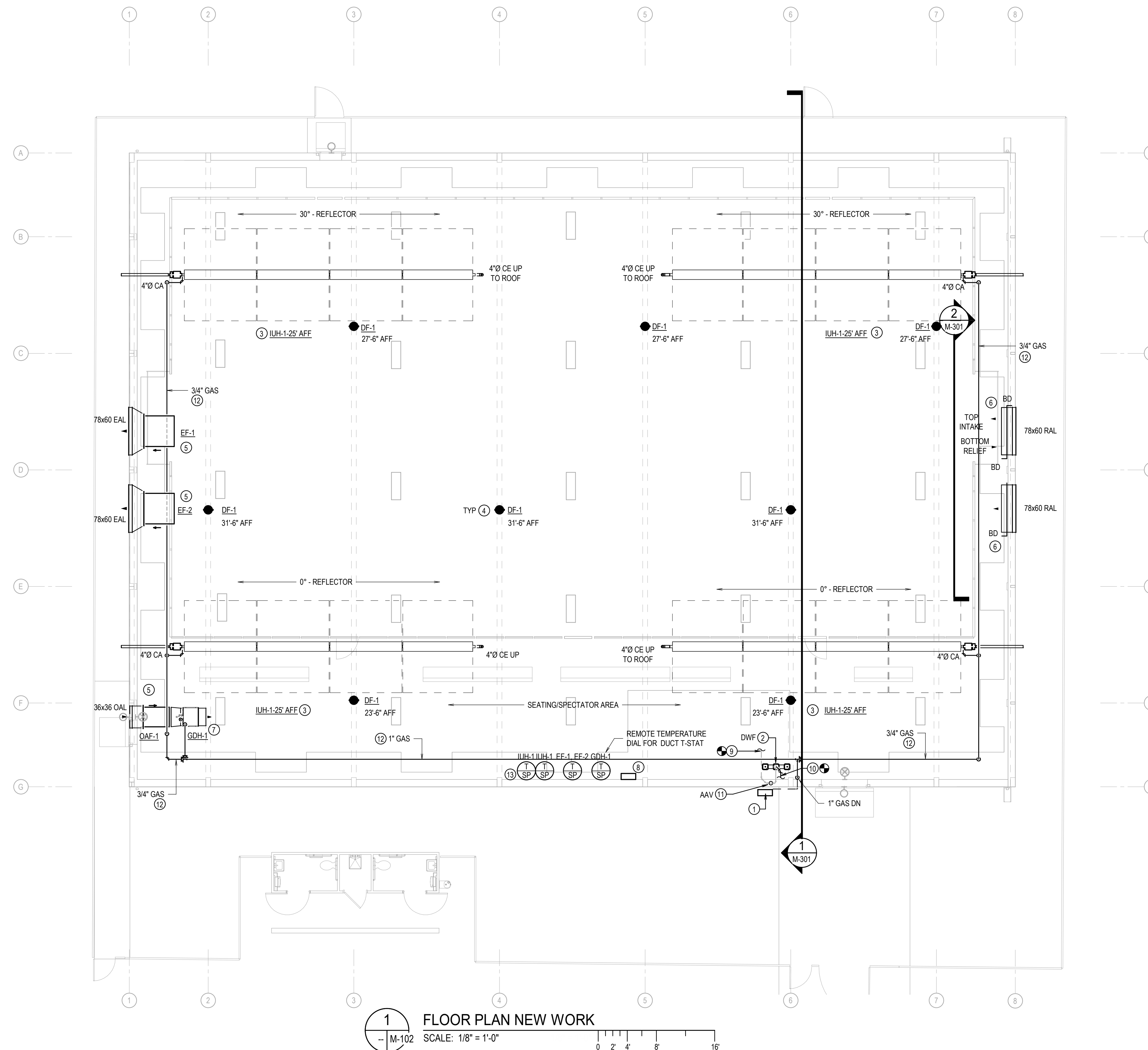
**M-101**

### GENERAL NOTES (NEW WORK)

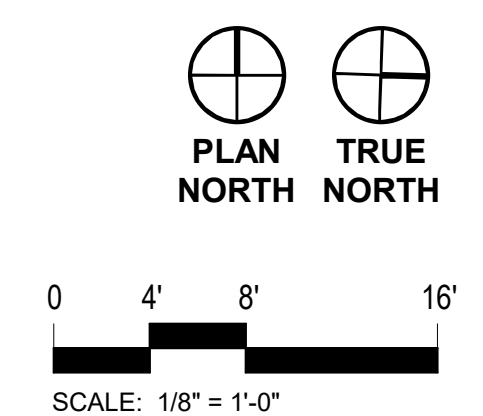
1. CONTRACTOR SHALL CONFIRM AIR BALANCE FOR ALL NEW HVAC SYSTEMS.
2. COORDINATE ALL EQUIPMENT AND DEVICE MOUNTING WITH THE PRE-FABRICATED BUILDING MANUFACTURER. DO NOT CUT, DRILL, OR WELD ANY PART OF THE BUILDING STRUCTURE WITHOUT WRITTEN APPROVAL. COORDINATE ALL EXTERIOR WALL PENETRATIONS AND SEAL WATERTIGHT IN ACCORDANCE WITH THE BUILDING MANUFACTURER.
3. RECOMMENDATIONS FOR ANY REQUIRED ADJUSTMENTS MUST BE SUBMITTED FOR DESIGN TEAM'S APPROVAL IN A TIMELY MANNER TO AVOID PROJECT DELAYS AND COST ESCALATION.

### KEY NOTES (NEW WORK)

1. NEW LOCATION OF RELOCATED 2 PSIG GAS SERVICE METER. COORDINATE RELOCATION OF SERVICE LINE AND METER WITH WASHINGTON GAS. ROUTE ALL NEW DISTRIBUTION PIPING UNDERGROUND TO GAS METER.
2. APPROXIMATE LOCATION OF FREE STANDING DRINKING WATER FOUNTAIN. REFER TO DRAWING M-701 FOR ADDITIONAL INFORMATION.
3. INSTALL GAS FIRED INFRARED UNIT HEATER, ASSOCIATED GAS PIPING, POWER AND CONTROLS MEETING ALL MANUFACTURER REQUIREMENTS PER MANUFACTURER INSTRUCTIONS. PROVIDE WALL AIR INTAKE AND ROOF VENT KITS. PROVIDE TAMPER-PROOF WALL MOUNTED PROGRAMMABLE THERMOSTAT WITH TIMED OVERRIDE (ADJ.).
4. INSTALL DESTRATIFICATION FANS, ASSOCIATED POWER AND CONTROLS MEETING ALL MANUFACTURER REQUIREMENTS PER MANUFACTURER'S INSTRUCTIONS.
5. INSTALL PROPELLER FANS, ASSOCIATED DUCTWORK, LOUVERS, ACCESSORIES POWER AND CONTROLS MEETING ALL MANUFACTURER REQUIREMENTS PER MANUFACTURER INSTRUCTIONS. PROVIDE INSECT SCREEN ON LOUVERS. FAN CONTROLLED BY TAMPER-PROOF WALL MOUNTED PROGRAMMABLE THERMOSTAT WITH TIMED OVERRIDE (ADJ.). PROVIDE ACCESS FOR FAN MOTOR IN THE FAN HOUSING/DUCTWORK.
6. PROVIDE ADJUSTABLE BAROMETRIC DAMPERS (GREENHECK BD SERIES OR EQUIVALENT) COORDINATE AND ADJUST RELIEF/INTAKE AIR PRESSURE VALUE/COUNTERBALANCE TO MAINTAIN AN OVERALL POSITIVE BUILDING PRESSURIZATION.
7. INSTALL DUCT MOUNTED POWER VENTED INDIRECT GAS FIRED HEATER, ASSOCIATED GAS PIPING, ACCESSORIES, POWER AND CONTROLS MEETING ALL MANUFACTURER REQUIREMENTS PER MANUFACTURER INSTRUCTIONS. PROVIDE COMBUSTION AIR INTAKE AND ROOF VENT KITS. PROVIDE TAMPER-PROOF WALL MOUNTED TEMPERATURE ADJUSTMENT DIAL FOR DUCT MOUNTED T-STAT.
8. TAMPER-PROOF TRIAC CONTROLLER FOR DESTRATIFICATION FANS. ALL DESTRAT FANS TO BE CONTROLLED BY SINGLE CONTROLLER.
9. ROUTE NEW 2" SANITARY PIPE BELOW FLOOR SLAB AND CONNECT TO EXISTING 2" (MINIMUM) SANITARY PIPE BELOW FLOOR SLAB. FIELD VERIFY THE EXACT LOCATION AND EXISTING PIPE.
10. ROUTE NEW 1/2" COLD WATER PIPE AND CONNECT TO EXISTING 1/2" (MINIMUM) COLD WATER UNDERGROUND. FIELD VERIFY THE EXACT LOCATION AND CONDITION OF EXISTING PIPING. REPLACE SECTIONS OF EXISTING PIPING THAT REQUIRE REPLACEMENT OR MODIFICATION BASED ON THE NEW BUILDING LAYOUT.
11. PROVIDE A 1-1/2" AIR ADMITTANCE VALVE (AAV) IN WALL. MODEL SHALL BE STUDOR MINI OR EQUAL. PROVIDE ACCESS IN WALL. COORDINATE ACCESS PANEL LOCATION WITH ARCHITECT.
12. FIELD COORDINATE OVERHEAD GAS PIPE ROUTING TO GDH-1 WITH MECHANICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS.
13. PROGRAMMABLE DIGITAL TIME CLOCK/TIMER SWITCH WITH TIMED OVERRIDE (ADJ.), FOR OAF-1. COORDINATE POWER AND CONTROL WIRING WITH ASSOCIATED TRADES.



**1 FLOOR PLAN NEW WORK**  
 - M-102 SCALE: 1/8" = 1'-0"  
 0 2' 4' 8' 16'



**ARLINGTON**  
 VIRGINIA

DEPARTMENT OF PARKS,  
 RECREATION AND  
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**FLOOR PLAN NEW  
 WORK**

Approval \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

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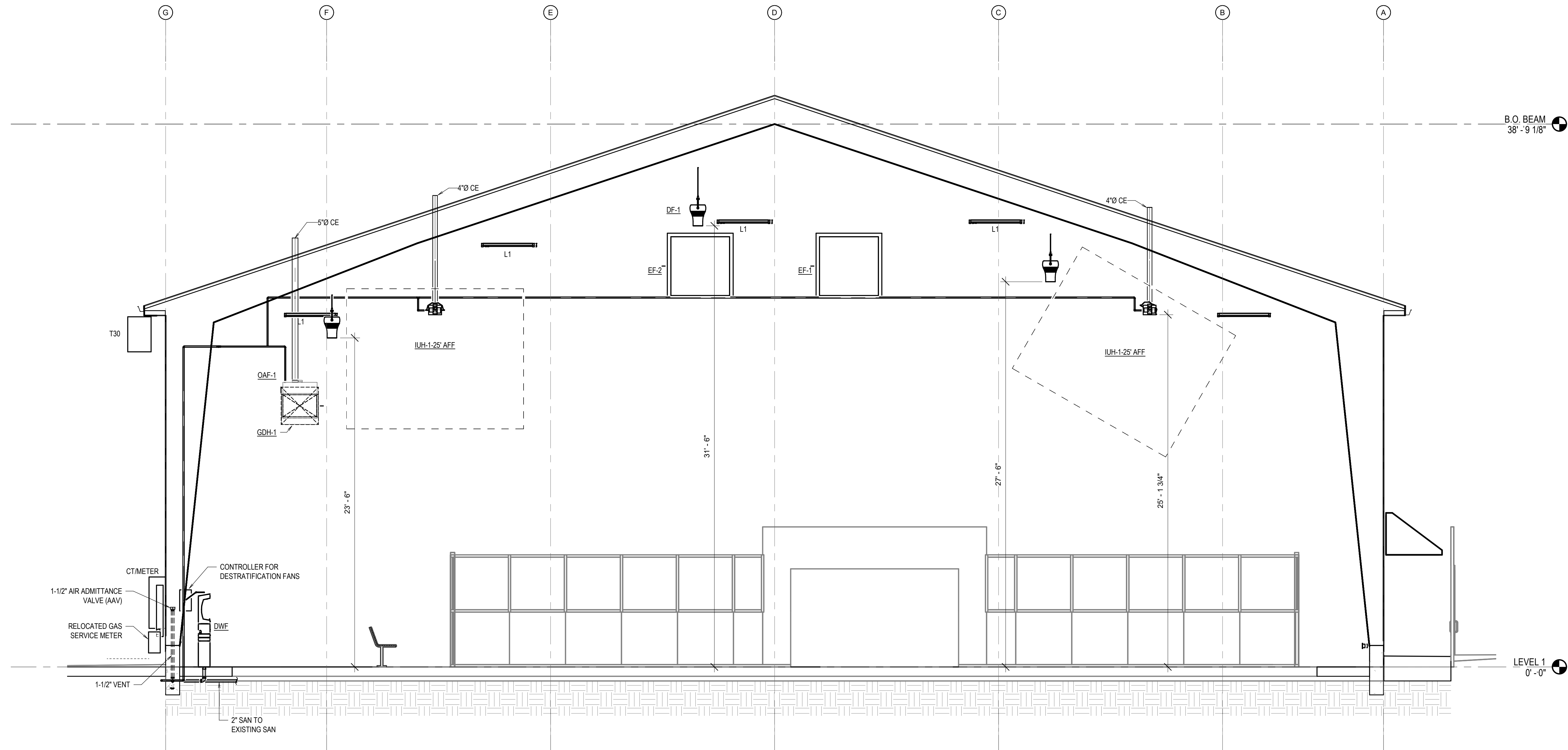
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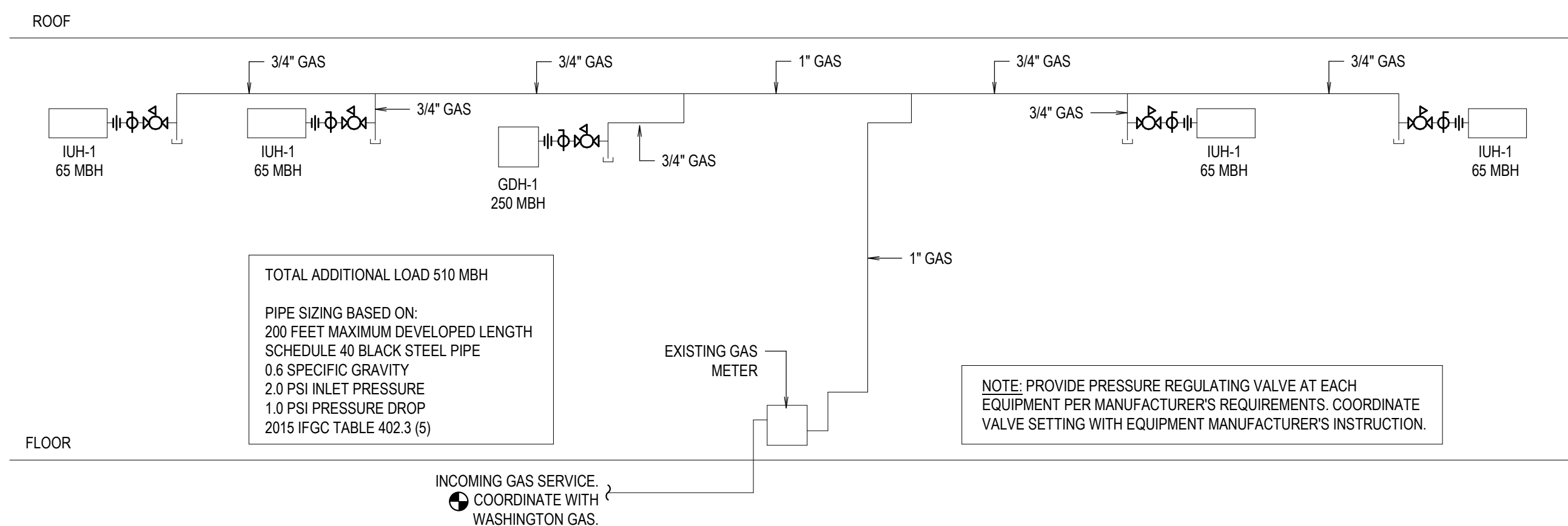
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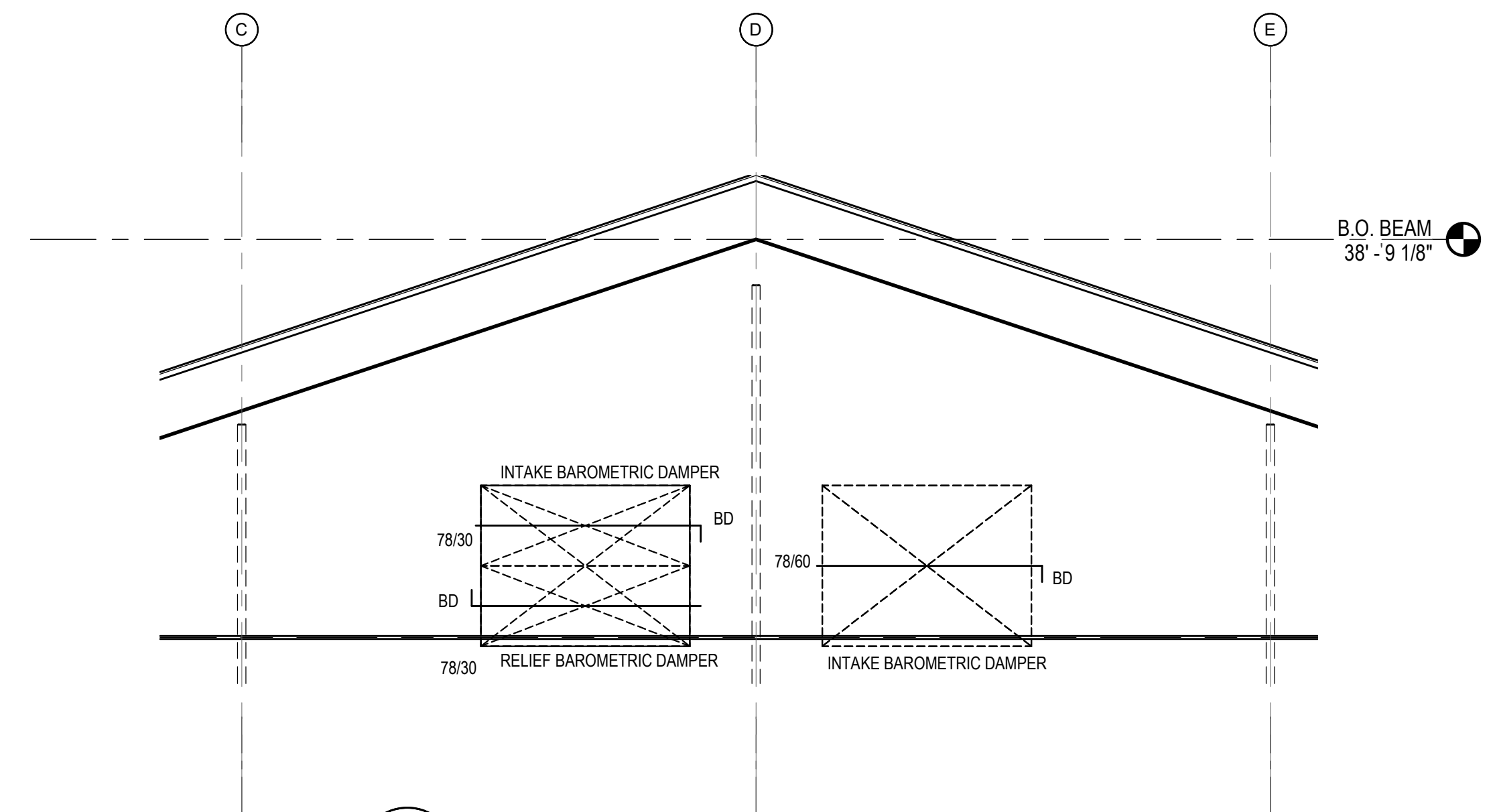
**M-102**



**1 GUNSTON INDOOR SOCCER FIELD SECTION**  
 SCALE: 1/4" = 1'-0"  
 0 1' 2' 4' 8'



**3 GAS RISER DIAGRAM**  
 SCALE: NONE



**2 RELIEF AIR LOUVERS SECTION**  
 SCALE: 1/4" = 1'-0"  
 0 2' 4' 8' 16'

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SECTIONS AND RISERS

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Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

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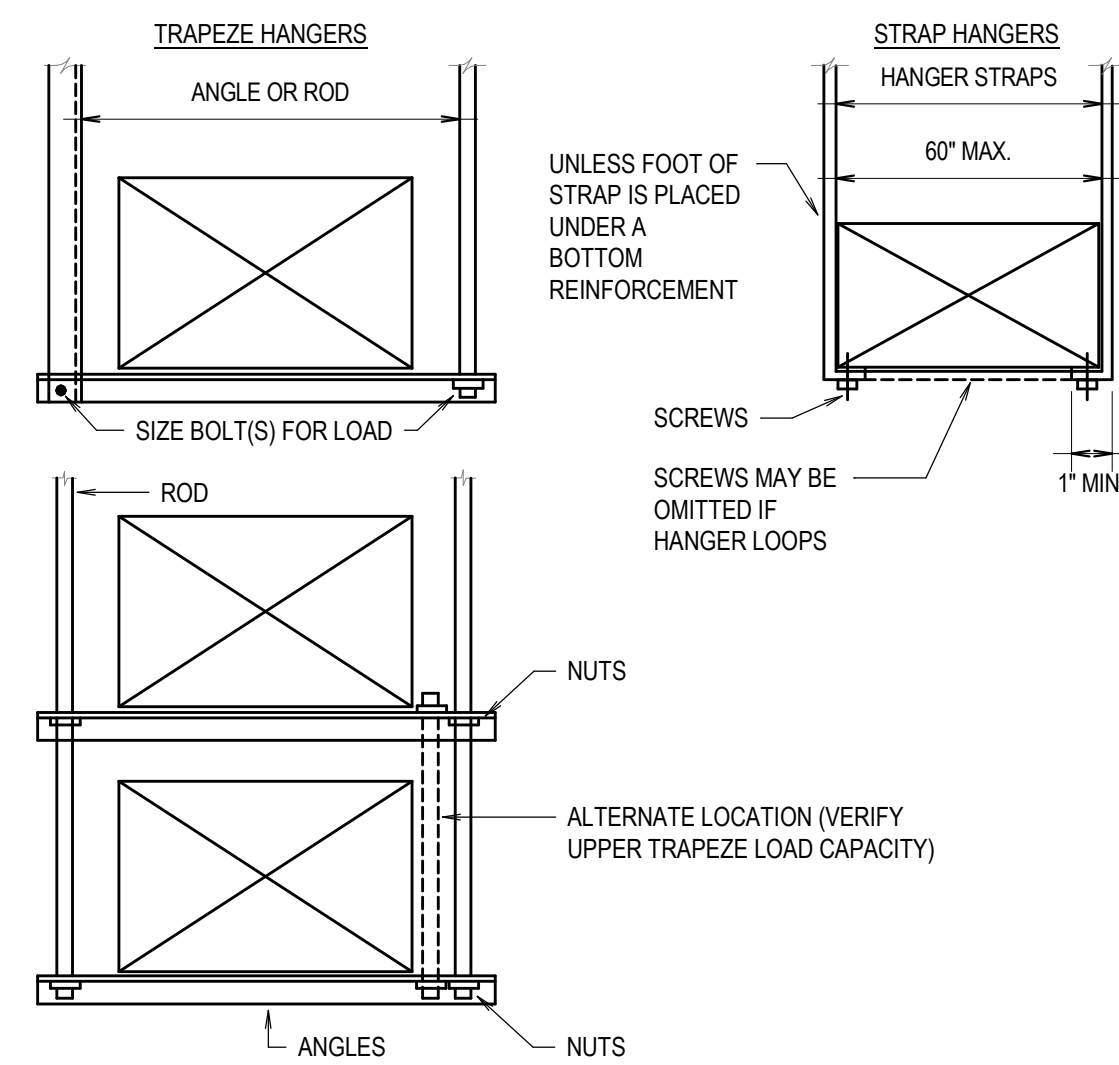
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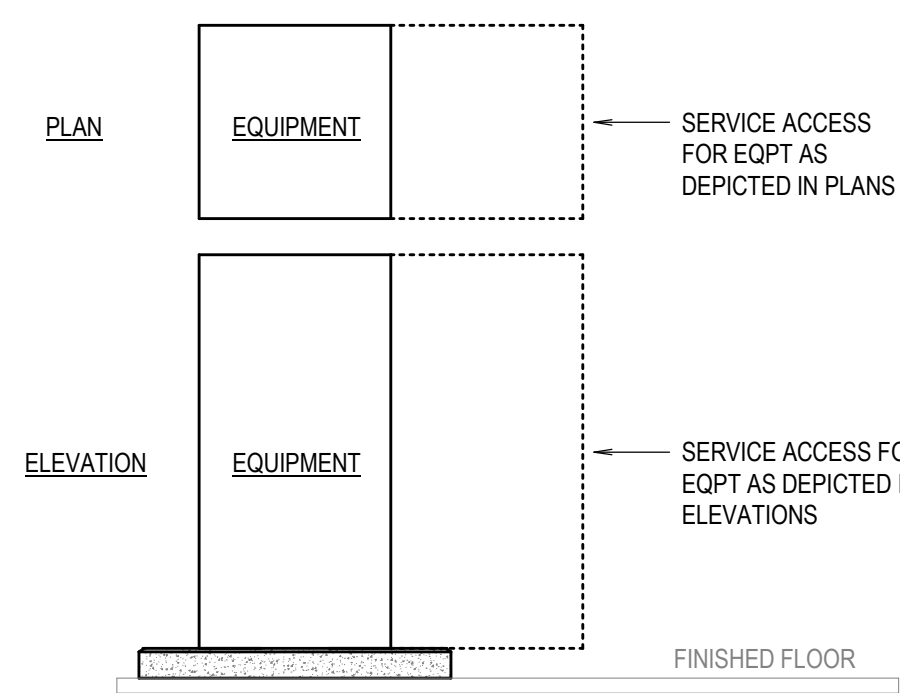
**BID SET SUBMISSION**

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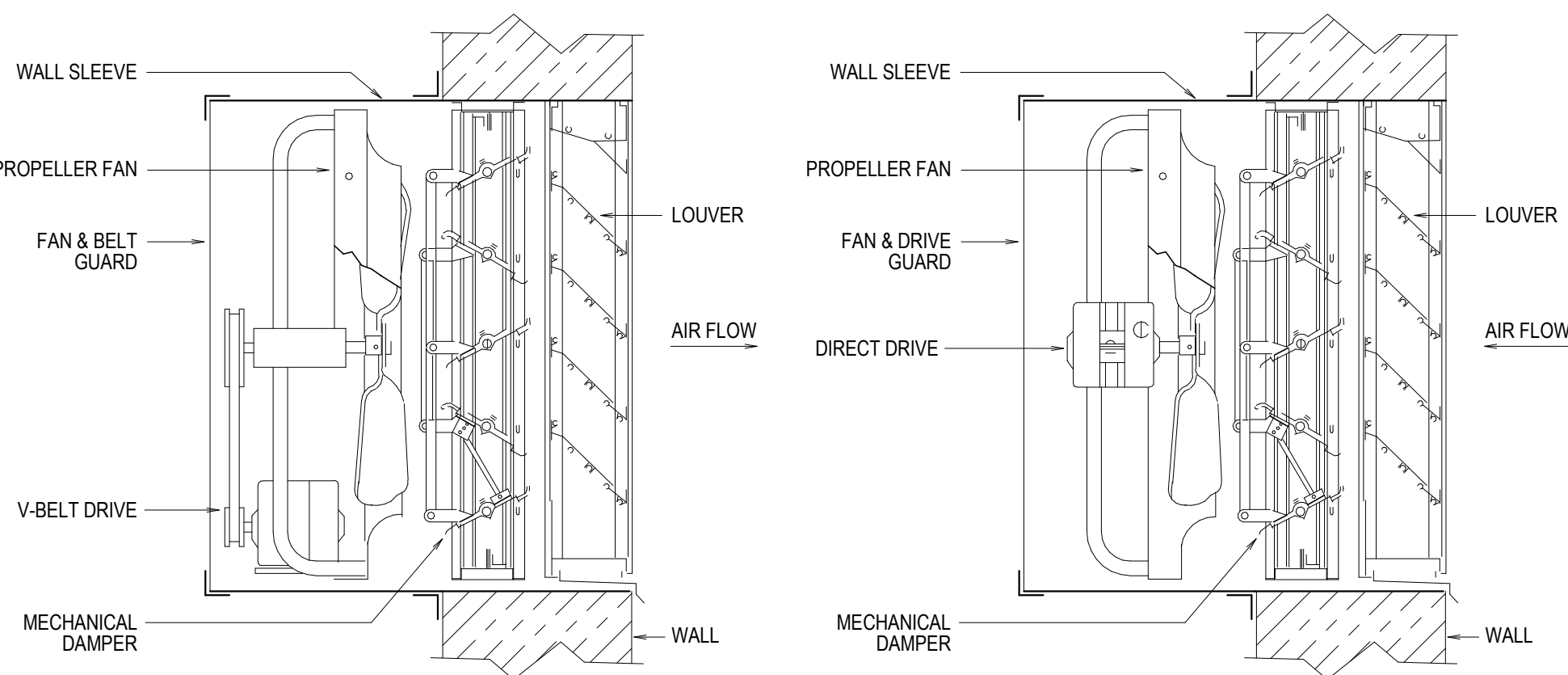
**M-301**



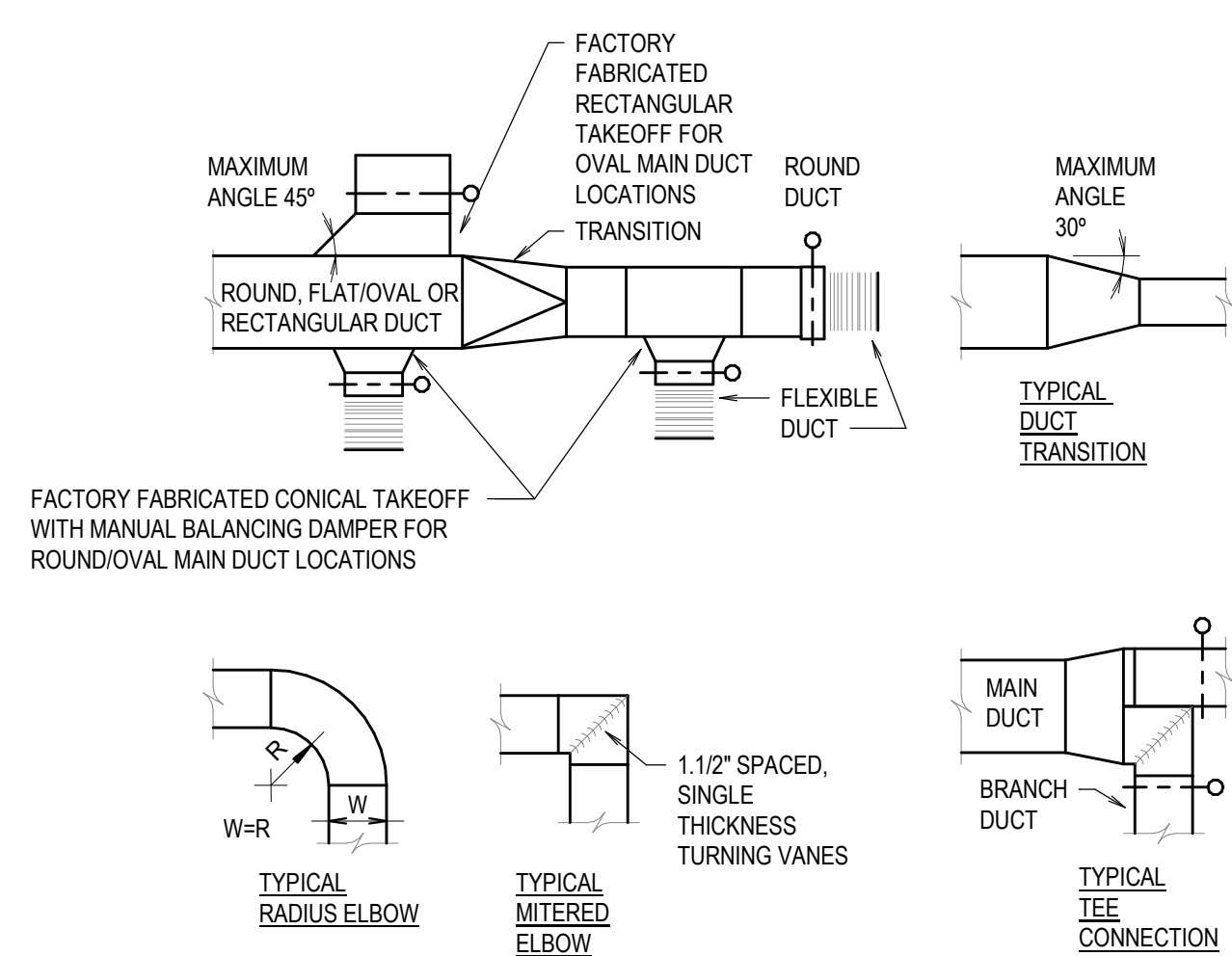
**1 RECTANGULAR DUCT HANGER DETAILS**  
SCALE: NONE  
NOTES:  
1. SUPPORT MATERIALS AND FASTENERS SHALL BE OF SAME MATERIAL AS SUPPORTED DUCTWORK.



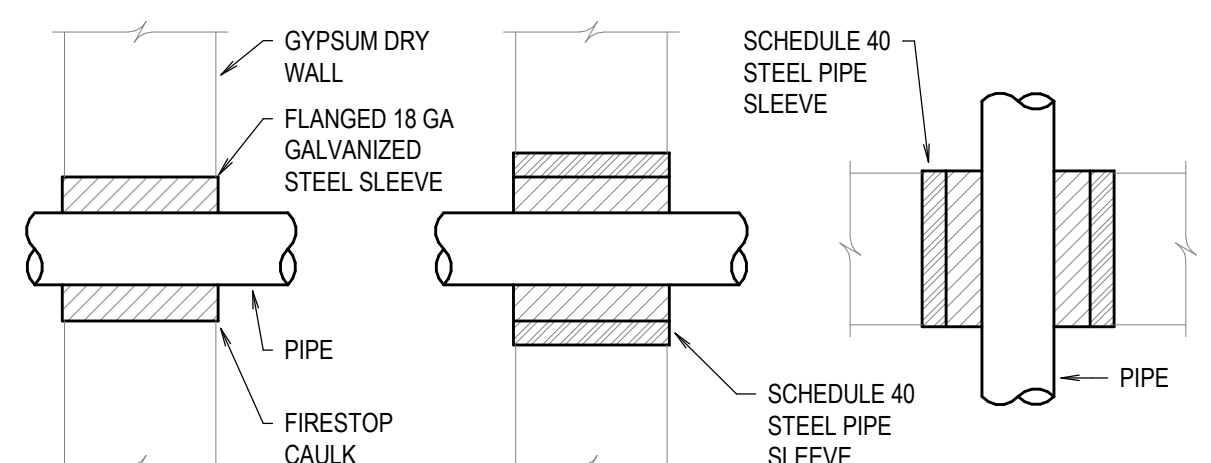
**5 EQUIPMENT SERVICE CLEARANCE DETAIL**  
SCALE: NONE  
NOTES:  
1. LOCATE ALL EQUIPMENT, WHICH MUST BE SERVICED, OPERATED, OR MAINTAINED IN FULLY ACCESSIBLE POSITIONS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.  
2. MAINTAIN A CLEAR PATH WITHOUT OBSTRUCTION TO ALLOW FOR ACCESS TO EQUIPMENT.  
3. PROVIDE A MINIMUM OF THREE FEET OF CLEARANCE IN FRONT OF EQUIPMENT ACCESS DOORS AND COMPONENTS REQUIRING SERVICE, UNO.



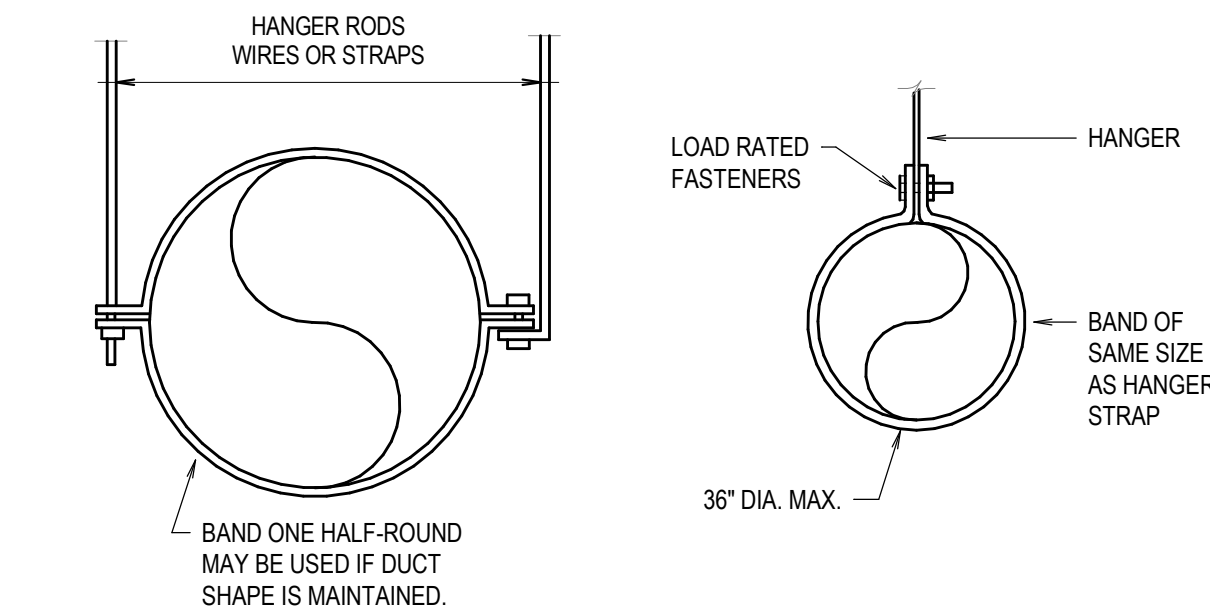
**10 FAN PROPELLER WALL FAN DETAIL**  
SCALE: NONE



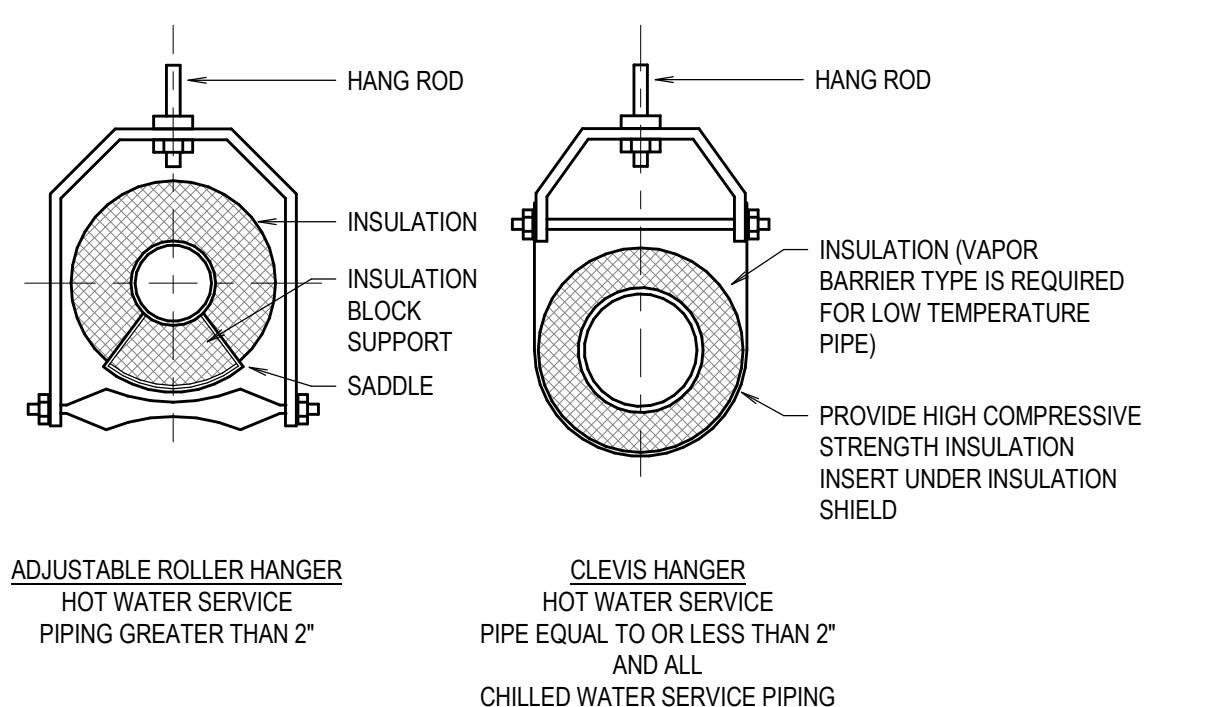
**2 TYP DUCT CONNECTION DETAILS**  
SCALE: NONE  
NOTES:  
1. DETAIL IS TYPICAL FOR FLAT OVAL DUCTWORK. 1.5D RADIUS ELBOWS SHALL BE USED IN MEDIUM PRESSURE DUCTWORK WHERE CEILING SPACE PERMITS. WHERE LIMITED SPACE EXISTS, MITERED ELBOWS WITH TURNING VANES SHALL BE USED. INSTALL DUCTWORK PER SMACNA FLAT OVAL DUCT STANDARDS.



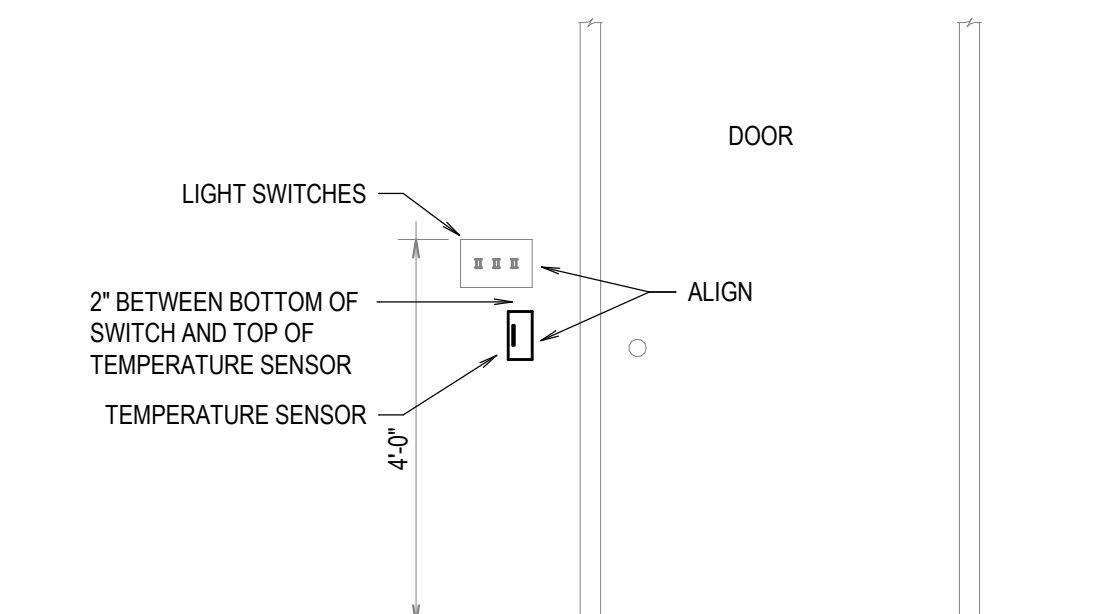
**6 PIPE SLEEVE DETAIL**  
SCALE: NONE  
NOTES:  
1. DETAIL IS TYPICAL FOR CHW, CW, HW, REFRIGERANT AND CONDENSATE PIPING WALL PENETRATIONS IN NON-FIRE RATED WALLS.  
2. PROVIDE ESCUTCHEONS WHERE PENETRATIONS ARE EXPOSED IN FINISHED AREAS.



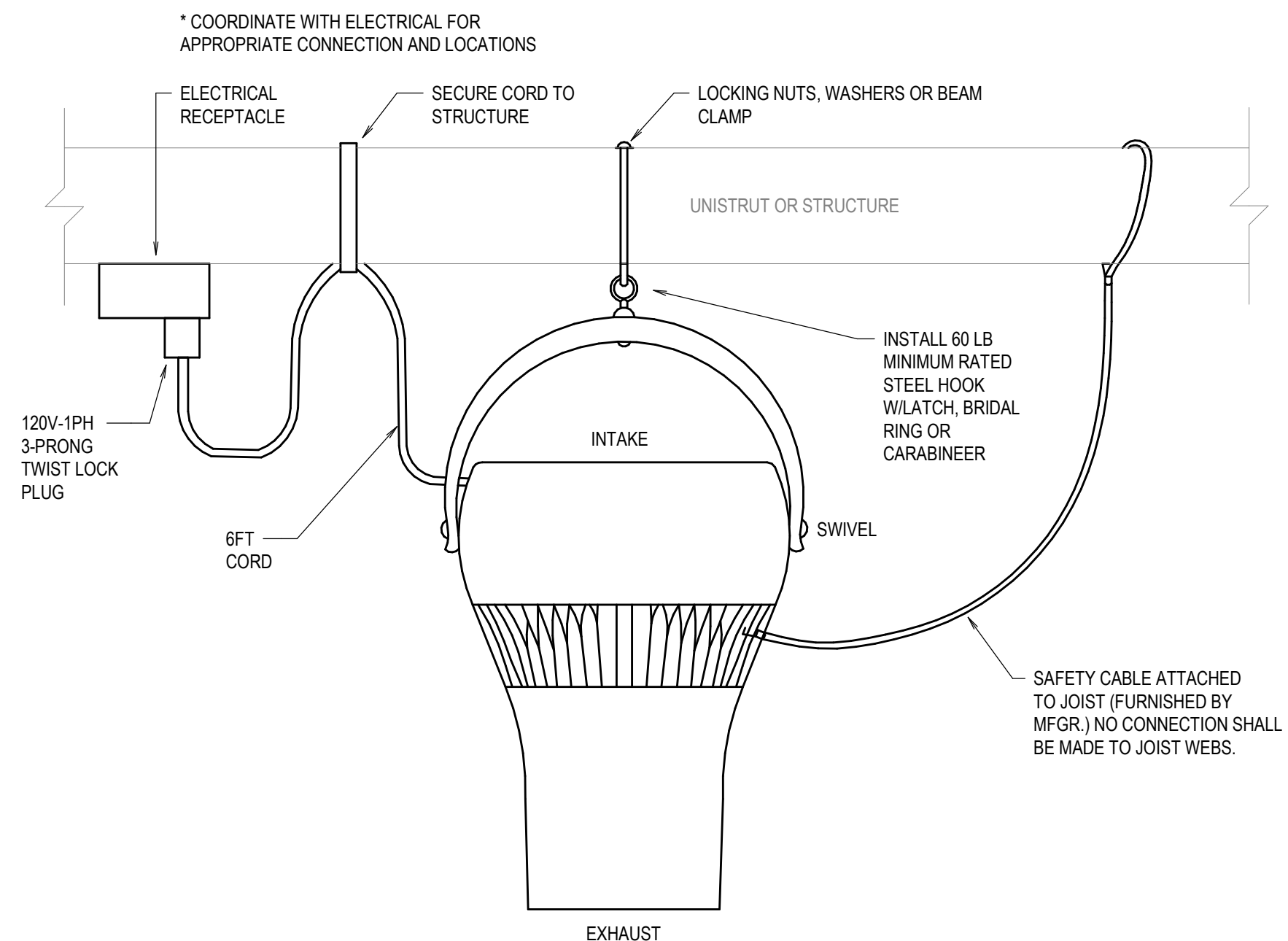
**3 ROUND DUCT HANGER DETAILS**  
SCALE: NONE  
NOTES:  
1. SUPPORT MATERIALS AND FASTENERS SHALL BE OF SAME MATERIAL AS SUPPORTED DUCTWORK. HANGERS MUST NOT DEFORM DUCT SHAPE.



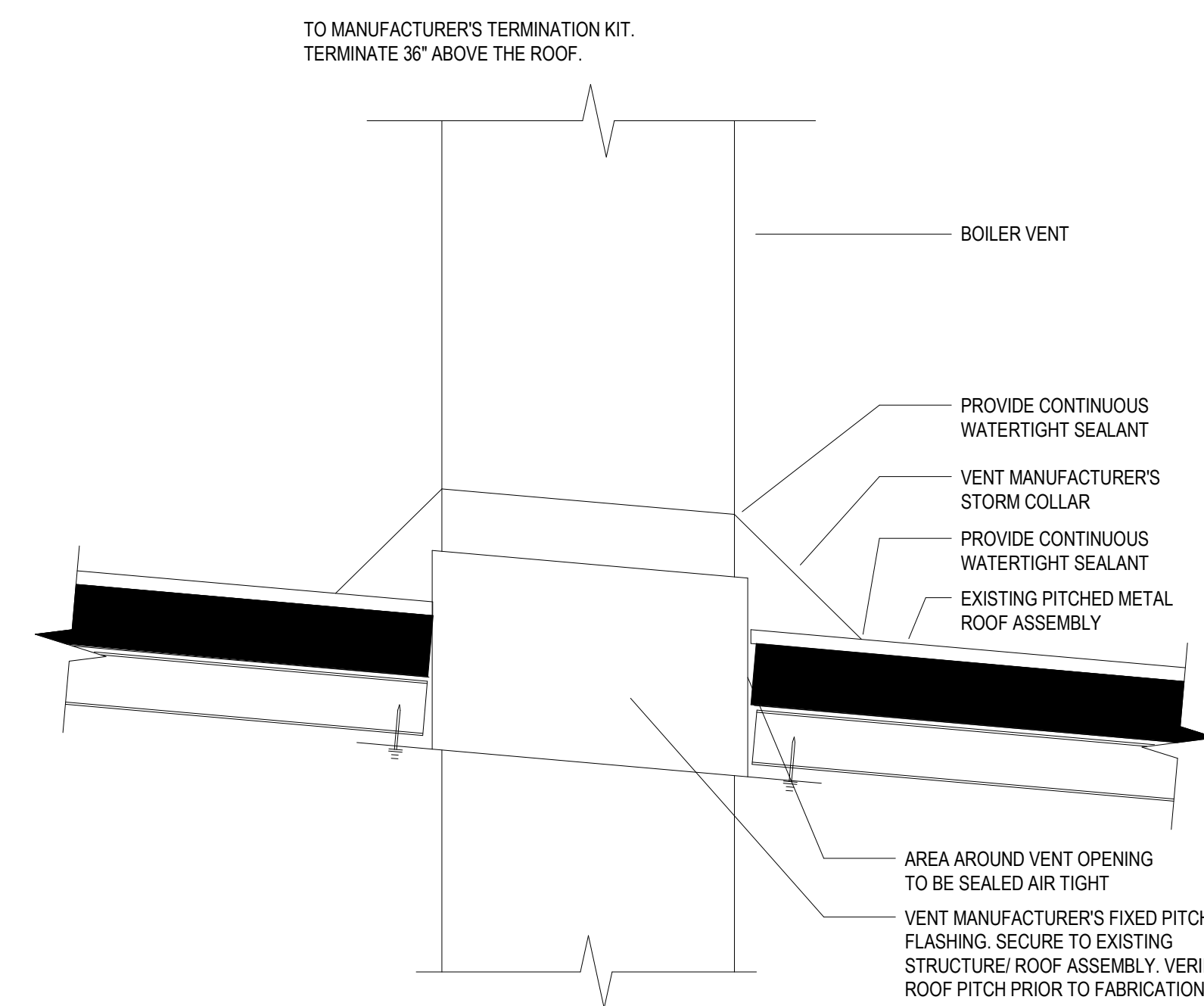
**7 PIPE HANGER DETAIL**  
SCALE: NONE



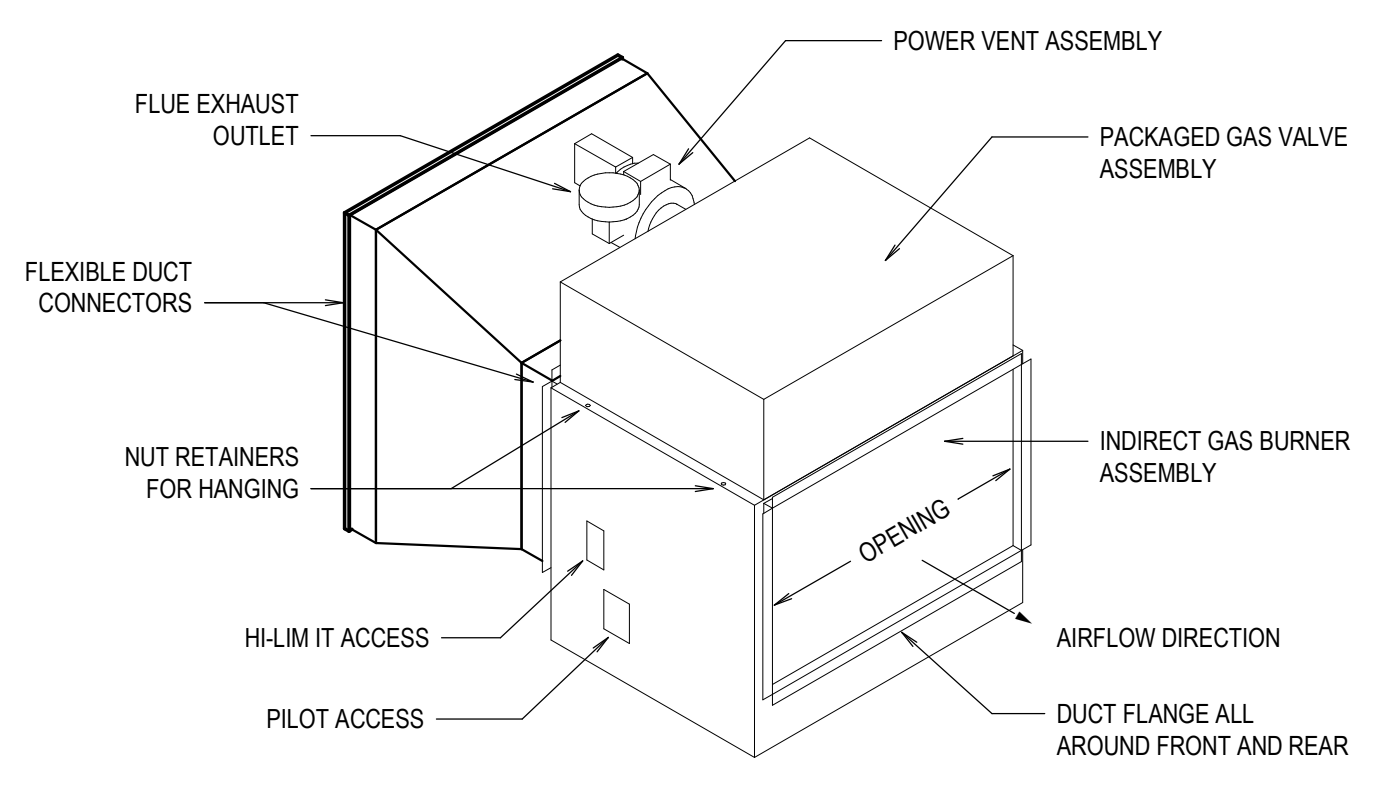
**4 TEMPERATURE SENSOR LOCATION**  
SCALE: NONE  
NOTES:  
1. DETAIL IS TYPICAL FOR ALL TEMPERATURE SENSORS INSTALLED NEAR LIGHT SWITCHES.  
2. INSTALL ALL OTHER TEMPERATURE SENSORS WITH 4'-0" FROM FINISHED FLOOR TO TOP OF TEMPERATURE SENSOR BOX. REFER TO BAS DRAWINGS FOR FURTHER DETAIL.



**8 DESTRATIFICATION FAN DETAIL**  
SCALE: NONE  
NOTES:  
1. INSTALL FAN AS CLOSE AS POSSIBLE TO THE CEILING. THE AIR COLUMN SHOULD HAVE AN UNOBSTRUCTED PASSAGE TO THE FLOOR.



**11 ROOF PENETRATION DETAIL**  
SCALE: NONE



**9 POWER VENTED DUCT FURNACE DETAIL**  
SCALE: NONE



22 07 19: PIPE & INSULATION SCHEDULE		
SYSTEM	INSULATION	
	TYPE	THICKNESS, IN
CW, HW, HWR	GLASS FIBER, ELASTOMERIC	1

23 3100: DUCT & INSULATION SCHEDULE					
SYSTEM	MATERIAL	PRESSURE CLASS, IN WC	INSULATION		NOTES
			TYPE	THICKNESS, IN	
GENERAL EXHAUST	GALV	1	-	-	1
SUPPLY	GALV	1	-	-	1

NOTES:  
1. FABRICATE & INSTALL IN ACCORDANCE WITH SMACNA STANDARDS.

23 3700: AIR OUTLETS AND INLETS SCHEDULE						
MARK	DESCRIPTION	MOUNTING	NECK	BASIS OF DESIGN		
				MFR	MODEL	MATERIAL
EAL, OAL	EXHAUST, OUTSIDE AIR LOUVER	WALL	-	GREENHECK	ESD-635	ALUMINUM

NOTES:  
1. COORDINATE EXACT LOCATIONS WITH ARCHITECTURAL PLANS.  
2. PROVIDE EAL, OAL WITH WWM INSECT SCREEN. PROVIDE MANUFACTURER ACCESSORIES AS NEEDED FOR INSTALLATION INTO EXTERIOR WALL.

23 3423: FAN SCHEDULE											
MARK	SERVICE	MODEL	TYPE	MOUNTING	MAX CFM	ESP IN WC	DRIVE	HP (WATTS)	INLET DBa	V-PH	NOTES
EF-1	BUBBLE	SBE-2L42-30	PROPELLER	WALL	19,000	0.4	BELT	3	77	208-3	1,3,4,5,6,7,8,11
EF-2	BUBBLE	SBE-2L42-30	PROPELLER	WALL	19,000	0.4	BELT	3	77	208-3	1,3,4,5,6,7,8,11
OAF-1	BUBBLE	AER-S24C-315-VG	PROPELLER	WALL	3,600	0.5	DIRECT	3/4	70	120-1	1,3,4,5,7,8,12
DF-1	BUBBLE	AIRIUS A-45-P4	DESTRATIFICATION	SUSPENDED	1,180	-	DIRECT	(54)	69	120-1	2,3,4,5,9,10

NOTES:  
1. DESIGN AND PERFORMANCE BASED ON GREENHECK.  
2. DESIGN AND PERFORMANCE BASED ON AIRIUS.  
3. ALL FANS - PROVIDE ALL REQUIRED SHEAVES/DAMPERS/SPEED CONTROLLERS FOR FINAL BALANCING.  
4. ALL FANS - PROVIDE FACTORY MEANS OF ELECTRICAL DISCONNECT AND THERMAL OVERLOAD PROTECTION.  
5. ALL FANS - PROVIDE MANUFACTURER VIBRATION ISOLATORS, SUPPORT/SUSPENSION ACCESSORIES.  
6. ALL BELT DRIVE FANS - PROVIDE GRIP NOTCH BELTS AND AUTOMATIC BELT TENSIONERS, UNO. PROVIDE OSHA GUARDS AND MOTOR COVERS.  
7. PROVIDE OPTIONAL DAMPER AND ASSOCIATED MOTOR ACTUATOR. PROVIDE CLOSURE ANGLES, INSULATED LONG WALL HOUSING.  
8. TERMINATE FANS TO AN EXTERIOR ARCHITECTURAL LOUVER AS SHOWN ON THE FLOOR PLAN.  
9. PROVIDE CORD AND PLUG TYPE DISCONNECT.  
10. PROVIDE PERMANENT SPLIT CAPACITOR MOTOR WITH FACTORY SUPPLIED SPEED CONTROLLER. REFER TO FLOOR PLAN FOR SPEED CONTROLLER LOCATION.  
11. FAN CONTROLLED BY WALL MOUNTED PROGRAMMABLE THERMOSTAT WITH TIMED OVERRIDE (ADJ.).  
12. FAN CONTROLLED BY PROGRAMMABLE DIGITAL TIME CLOCK/TIMER SWITCH WITH TIMED OVERRIDE (ADJ.).

23 81 26: GAS FIRED INFRARED UNIT HEATER SCHEDULE										
MARK	SERVICE	MODEL	HEATER LENGTH	TOTAL HEATING CAPACITY MBH	GAS INPUT MBH	INLET PRESSURE (MIN/MAX) IN.WC.	PIPE SIZE IN	V-PH	AMPS	NOTES
IUH-1	GUNSTON BUBBLE	SSTG-65-40BN	42' - 1-1/4"	60.0	65.0	6"/14"	-	120-1	3.0	ALL

NOTES:  
APPLY TO ALL MARKS, UNLESS NOTED OTHERWISE  
1. ALL HEATERS - DESIGN AND PERFORMANCE BASED ON SOLARONICS.  
2. ALL HEATERS - PROVIDE FACTORY SUPPLIED TAMPER-PROOF THERMOSTAT.  
3. ALL HEATERS - PROVIDE UNIT MOUNTED DISCONNECT SWITCH FOR EACH UNIT.  
4. NATURAL GAS INPUT/HEATING CAPACITY BASED ON 3.5" IN.WC. MANIFOLD PRESSURE.  
5. PROVIDE MANUFACTURER'S WALL AIR INTAKE AND ROOF VENTING KIT ALONG WITH OTHER RECOMMENDED ACCESSORIES.  
6. PROVIDE MANUFACTURER'S SUPPORT/SUSPENSION AND WIRE GUARD ACCESSORY.  
7. PROVIDE SINGLE STAGE HEATER.

238216: HEATING AIR COIL SCHEDULE																
MARK	SERVICE	MODEL	MOUNTING	TTL CFM	TYPE	INPUT MBH	OUTPUT MBH	EAT DB, °F	LAT DB, °F	PD, IN.H2O	MAX LENGTH, IN	MAX WIDTH, IN	MAX HEIGHT, IN	ROWS	WEIGHT, LBS.	
GDH-1	BUBBLE	GLND025AJ	DUCT	3,600	INDIRECT GAS	250	200	15	60	0.3	32	37	37	-	263	

NOTES:  
APPLY TO ALL MARKS, UNO.  
1. DESIGN AND PERFORMANCE BASED ON TRANE.  
2. HEATING COIL CAPACITIES ARE BASED ON NATURAL GAS.  
3. HEATING PERFORMANCE DATA BASED ON 15° dB OA EAT, 60° dB OA LAT.  
4. PROVIDE FLEXIBLE DUCT CONNECTORS AT ALL DUCT CONNECTIONS.  
5. PROVIDE 120V/1Ø MAIN POWER SUPPLY, ELECTRONIC MODULATING GAS CONTROL WITH INTERMITTENT PILOT IGNITION, DUCT-THERMOSTAT AND REMOTE TEMPERATURE SELECTOR.  
6. PROVIDE STAINLESS STEEL HEAT EXCHANGER, BURNERS AND DRAFT DIVERTER.  
7. PROVIDE SINGLE WALL VENT SYSTEM WITH VERTICAL ARRANGEMENT AND ALL REQUIRED ACCESSORIES. TERMINATE FLUE VENT ON ROOF. FOLLOW MANUFACTURER GUIDELINES FOR VENTING.

22 4000: PLUMBING FIXTURE SCHEDULE										
MARK	DESCRIPTION	MINIMUM BRANCH PIPING SIZES				FLOW	MOUNTING/REMARKS	BASIS OF DESIGN		
		CW	HW	W	V					
DWF	DRINKING WATER FOUNTAIN	1/2"	-	1-1/2"	1-1/2"	8 GPH	MODULAR OUTDOOR BOTTLE FILLER AND DOUBLE DRINKING FOUNTAINS	MOST DEPENDABLE FOUNTAINS, INC. MODEL 10145 SSMS (OR APPROVED EQUAL)		

NOTES:  
1. PROVIDE SUPPLY PIPES, ANGLE STOPS, TRAPS, INSULATION KITS AND DRAINS AS REQUIRED. COORDINATE FINAL CONNECTIONS TO EQUIPMENT SUPPLIED.  
2. PROVIDE INTERNAL CLEANOUT IN ALL ACCESSIBLE TRAPS.

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SCHEDULES

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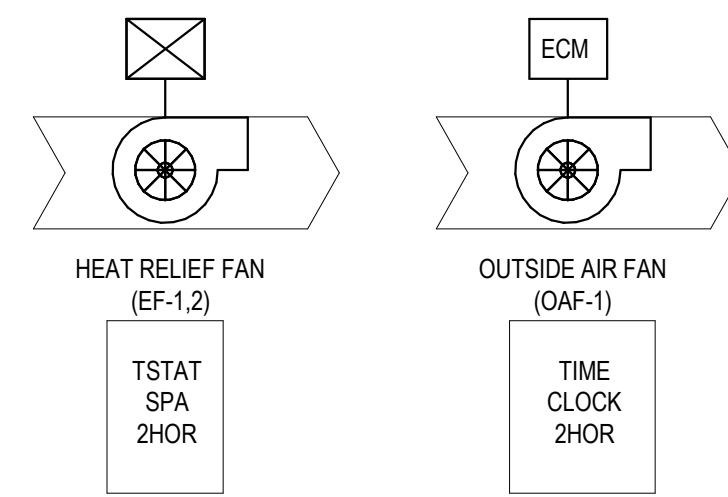
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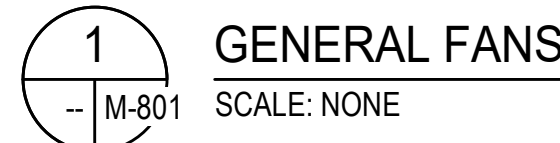
M-701

## GENERAL NOTES (NEW WORK) SEQUENCE OF OPERATIONS



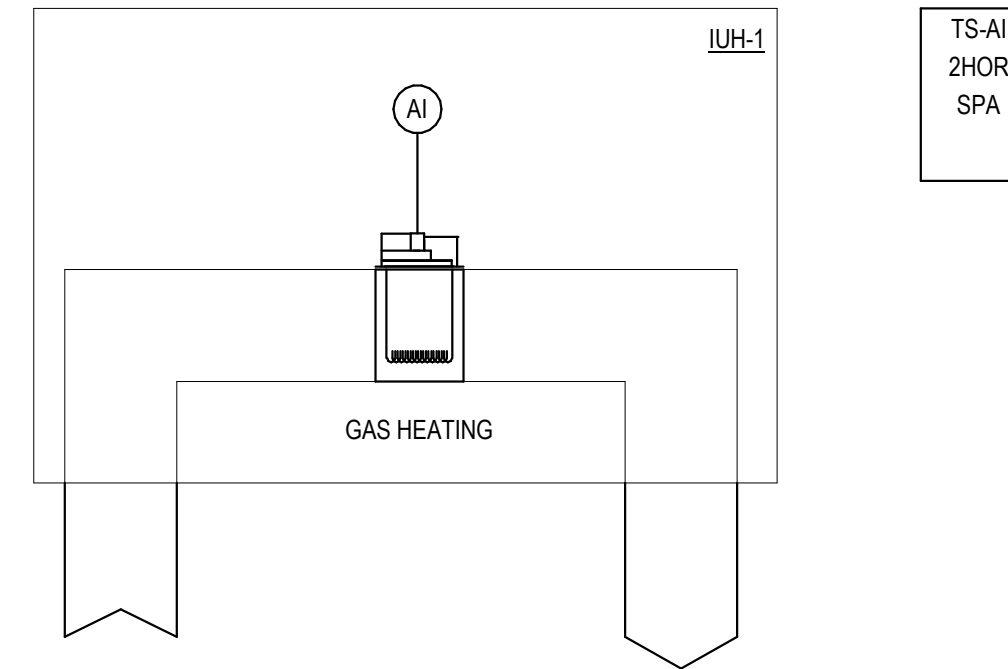
### NOTES:

- REFER TO FAN SCHEDULE AND FLOORPLANS FOR ADDITIONAL DETAIL.
- FANS SHALL INTERLOCK WITH ASSOCIATED MOTORIZED DAMPER, UNO. CONTRACTOR, INTERLOCKED BY ELEC CONTRACTOR.
- FANS NOT CONTROLLED BY BAS; DAMPER PROVIDED BY MECHANICAL CONTRACTOR.
- FANS UNDER 5" ESP; BACKDRAFT DAMPER PROVIDED BY MECHANICAL CONTRACTOR.
- HEAT RELIEF FAN TSTAT SET POINT FOR ROOM SHALL BE 95° F, UNO.



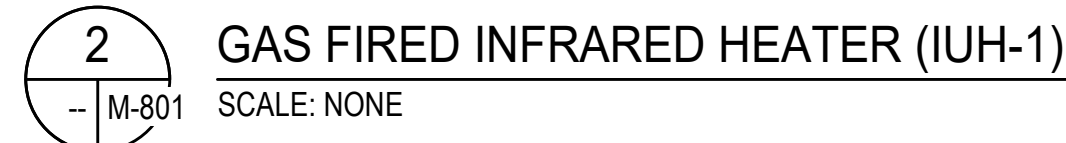
### GENERAL FANS

SCALE: NONE



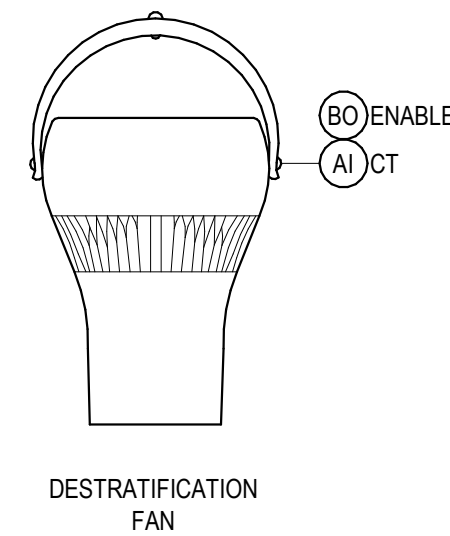
### NOTES:

- SCHEMATIC IS TYPICAL FOR ALL INFRARED UNIT HEATERS, UNO.



### GAS FIRED INFRARED HEATER (IUH-1)

SCALE: NONE



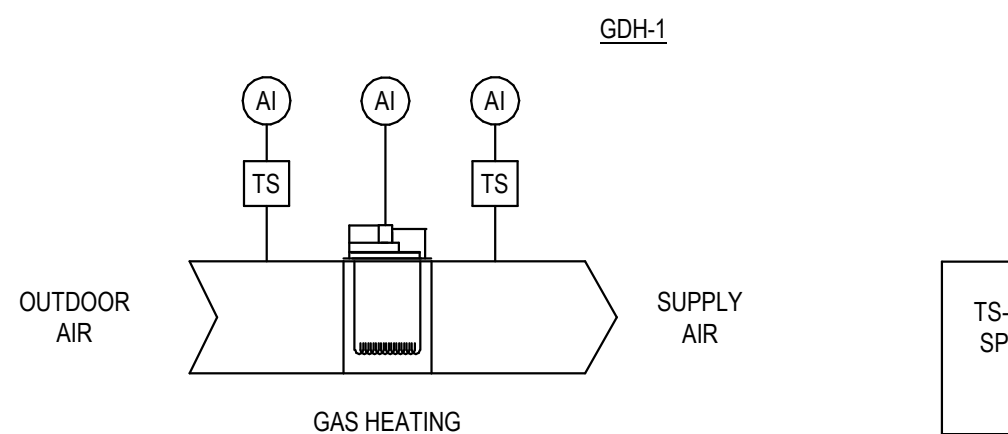
### NOTES:

- REFER TO FAN SCHEDULE AND FLOOR PLANS FOR ADDITIONAL DETAIL.



### DESTRATIFICATION CIRCULATION FANS (CF)

SCALE: NONE



### NOTES:

- PROVIDE LOCKABLE PROTECTIVE COVER FOR SPACE SENSOR.



### DUCT MTD. POWER VENTED INDIRECT GAS HEATER (GDH-1)

SCALE: NONE

- EQUIPMENT CONTROLS SHALL BE FIELD-INSTALLED AND CONNECTED TO EQUIPMENT VIA EQUIPMENT TERMINAL STRIP PROVIDED BY EQUIPMENT MANUFACTURER.
- THE GENERAL CONTRACTOR WILL SOLICIT PROPOSAL FOR THE WORK SPECIFIED FROM THE CONTROLS VENDORS ESTABLISHED TO PROVIDE SUCH SYSTEMS. IF THE MECHANICAL CONTRACTOR IS UNABLE TO FULLY PERFORM THE SPECIFIED WORK, ALL SENSORS, CONTROLLERS, VALVES AND ASSOCIATED COMPONENTS INDICATED SHALL BE PROVIDED BY THE APPROPRIATE CONTRACTOR.
- CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR. IN ADDITION TO THE 120 V CIRCUITS SHOWN ON THE ELECTRICAL DRAWINGS FOR CONTROLS, THE CONTROLS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL CIRCUITS AS REQUIRED FOR CONTROL POWER, WIRING AND RACEWAY TYPES SHALL MEET THE REQUIREMENTS IN THE ELECTRICAL SPECIFICATIONS.
- ALL CONTROL WIRING SHALL RUN IN CONDUIT, MIN 3/4", CONCEALED WITHIN WALLS OR ABOVE CEILINGS OF FINISHED SPACES, UNLESS NOTED OTHERWISE. IN SPACES WITH EXPOSED STRUCTURE CEILINGS, CONTRACTOR SHALL CLOSELY COORDINATE ROUTING WITH OTHER TRADES. CONDUIT FROM THE WALL OUTLET BOX MAY TERMINATE SEVERAL INCHES ABOVE THE CEILING WHERE LAY-IN CEILING TILES ARE TO BE USED. CABLING ABOVE THE CEILING SHALL BE NEATLY BUNDLED AND ATTACHED TO OR INDEPENDENTLY SUPPORTED FROM THE BUILDING STRUCTURE ABOVE.
- ALL CONTROLS, SENSORS AND FLOW METERS SHALL BE PROVIDED BY THE CONTROLS CONTRACTOR, UNO. CONTROLS CONTRACTOR SHALL PROVIDE ADDITIONAL POINTS & COMPONENTS AS NEEDED TO ACHIEVE THE SPECIFIED SEQUENCE OF OPERATION AND SYSTEM GRAPHIC DISPLAY.
- INSTALL ALL HVAC WALL MOUNTED SENSORS 48" AFF, MEASURED FROM TOP OF OUTLET BOX, UNO.
- REFER TO ELECTRICAL DRAWINGS FOR COORDINATION WITH ELECTRICAL SYSTEM CONTROL.

### GENERAL FANS (EF-1, EF-2, OAF-1)

- FANS CONTROLLED BY A PROGRAMMABLE THERMOSTAT (EF-1, EF-2) WITH TIMED OVERRIDE (ADJ.) ARE NOT MONITORED OR CONTROLLED BY THE BAS, UNO.
- FANS CONTROLLED BY A PROGRAMMABLE DIGITAL TIME CLOCK/TIMER SWITCH WITH TIMED OVERRIDE (ADJ.) (OAF-1) ARE NOT MONITORED OR CONTROLLED BY THE BAS, UNO.
- FANS SHALL OPERATE IN OCCUPIED AND UNOCCUPIED MODE ACCORDING TO SCHEDULE PROGRAMMED IN THE THERMOSTAT OR DIGITAL TIME CLOCK/TIMER SWITCH. WHEN AN OVERRIDE IS INITIATED AT A SPACE SENSOR WITHIN THE SPACE SERVED BY THE ASSOCIATED UNIT, THE SYSTEM SHALL RETURN TO ITS NORMAL OCCUPIED OPERATION FOR 2 HOURS (ADJ.) WHEN THE TIMED OVERRIDE PERIOD HAS ENDED, THE SYSTEM SHALL AUTOMATICALLY RETURN TO ITS UNOCCUPIED OPERATION. REFER TO FAN SCHEDULE FOR FURTHER DETAIL.
- FANS SHALL INTERLOCK WITH MOTORIZED AIR DAMPER TO PREVENT BACKDRAFT. REFER TO FLOOR PLANS FOR FURTHER DETAIL.
- SYSTEM GRAPHIC DISPLAY:
  - UNIT MARK, TYPE, SIZE, ENABLE/DISABLE, OCCUPANCY SCHEDULE, AND OVERRIDE STATUS.
  - SPACE TEMPERATURE AND SET POINT.
  - DAMPER - POSITION AND STATUS.

### GAS FIRED INFRARED HEATER (IUH-1)

- THE UNIT SHALL HAVE A MICROPROCESSOR-BASED CONTROLLER WHICH SHALL MONITOR AND CONTROL THE UNIT IN A STAND-ALONE MODE. THE UNIT SHALL OPERATE IN OCCUPIED AND UNOCCUPIED MODE ACCORDING TO SCHEDULE PROGRAMMED THROUGH THE THERMOSTAT. THE PROGRAMMABLE THERMOSTAT SHALL BE RESPONSIBLE FOR COMMUNICATING WITH THE CONTROLLER AND PROVIDING STATUS AND DIAGNOSTICS OF THE UNIT TO THE OPERATOR.
- THE HEATING ONLY UNIT SHALL BE ENABLED WHEN THE ROOM AIR TEMPERATURE IS BELOW 60° F (ADJ.).
  - OCCUPIED OPERATION:
    - THE SYSTEM SHALL OPERATE TO MAINTAIN OCCUPIED SPACE SET POINTS.
    - HEATING: TO MAINTAIN SPACE TEMPERATURE HEATING SET POINT (ADJ.), THE INFRARED GAS HEATER SHALL FIRE TO GRADUALLY INCREASE THE SPACE AIR TEMPERATURE UP TO THE SCHEDULED SET POINT (ADJ.).
  - UNOCCUPIED OPERATION:
    - WHEN THE PROGRAMMABLE THERMOSTAT INITIATES UNOCCUPIED OPERATION, THE UNIT SHALL TURN OFF.
    - THE UNIT SHALL CYCLE ON, TO MAINTAIN UNOCCUPIED SPACE'S HEATING SET POINTS.
- TIMED OVERRIDE: WHEN AN OVERRIDE IS INITIATED AT A SPACE SENSOR WITHIN THE SPACE SERVED BY THE ASSOCIATED UNIT, THE SYSTEM SHALL RETURN TO ITS NORMAL OCCUPIED OPERATION FOR 2 HOURS (ADJ.) WHEN THE TIMED OVERRIDE PERIOD HAS ENDED, THE SYSTEM SHALL AUTOMATICALLY RETURN TO ITS UNOCCUPIED OPERATION.
- SYSTEM GRAPHIC DISPLAY:
  - UNIT MARK, TYPE, SIZE, ENABLE/DISABLE, OCCUPANCY SCHEDULE, AND OVERRIDE STATUS.
  - SPACE TEMPERATURE AND SET POINT.
  - HEATER STATUS.

### DESTRATIFICATION FANS

- THE FANS SHALL BE PROVIDED WITH MANUFACTURER WALL SPEED CONTROLLER AND OVERRIDE CONTROL AS SHOWN ON THE FLOOR PLANS.
- SYSTEM GRAPHIC DISPLAY:
  - FAN - ENABLE AND STATUS.

## ABBREVIATIONS

ZHOR	2 HOUR OVERRIDE
AFMS	AIR FLOW MONITORING STATION
AH	AIR HANDLER
AHU	AIR HANDLING UNIT
AI	ANALOG INPUT
AO	ANALOG OUTPUT
BCU	BUILDING CONTROL UNIT
BI	BINARY INPUT
BO	BINARY OUTPUT
CD	CONDENSATE DRAIN
CSR	CURRENT SENSING RELAY
CT	COOLING TOWER, CURRENT TRANSFORMER
CUH	CABINET UNIT HEATER
DM	DAMPER MOTOR
DP	DIFFERENTIAL PRESSURE
DPS	DIFFERENTIAL PRESSURE SENSOR
EA	EXHAUST AIR
ECM	ELECTRICALLY COMMUTATED MOTOR
EF	EXHAUST FAN
EMS	ENERGY MANAGEMENT SYSTEM
EOL	END OF LINE
EQPT	EQUIPMENT
EUH	ELECTRIC UNIT HEATER
EWH	ELECTRIC WALL HEATER
FC	FAN COIL
FM	FLOW METER
H	HUMIDIFIER
HG	HOT GAS
HP	HEAT PUMP
HS	HUMIDITY SENSOR
HSTAT	HUMIDISTAT
MFR	MANUFACTURER
MSB	MAIN SWITCHBOARD
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
OA	OUTSIDE AIR
PM	POWER METER
PS	PRESSURE SENSOR
RA	RETURN AIR
RH	REHEAT, RELATIVE HUMIDITY
RHC	REHEAT COIL
SA	SUPPLY AIR
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SP	SET POINT
SPA	SET POINT ADJUSTMENT
S/S	START / STOP
TEMP	TEMPERATURE
TS	TEMPERATURE SENSOR
TSTAT	THERMOSTAT
TYP	TYPICAL
UC	UNIT CONTROLLER
UM	UNIT MANUFACTURER
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SUPPLY
VFD	VARIABLE FREQUENCY DRIVE

ARLINGTON  
VIRGINIA

DEPARTMENT OF PARKS,  
RECREATION AND  
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21-DPR-ITB-356

Project Name and

Gunston Park  
Enclosed  
Athletic Facility  
Improvements

28th Street South  
Arlington, VA

Sheet

CONTROLS

Approval \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Dat	Revision	△
05/26/20	Permit Submission	
04/26/21	Bid Set	

Designed:  
Drawn: JJ  
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Filename:  
Plotted:

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Date 05/26/20

Seal

BID SET SUBMISSION

Sheet

M-801



COMcheck Software Version 4.1.1.0

# Interior Lighting Compliance Certificate

### Project Information

Energy Code: 2015 IECC  
Project Title:  
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

### Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

### Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Sports Arena	10500	0.82	8600
Total Allowed Watts =			8600

### Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Sports Arena LED 1: L1: LED High Bay Fixture; Other:	1	25	241	6025
Total Proposed Watts =				6025

**Interior Lighting PASSES: Design 30% better than code**

### Interior Lighting Compliance Statement

*Compliance Statement:* The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

## ELECTRICAL LEGEND

	CONDUIT SYMBOLS
	CONDUIT OR CABLE UP
	CONDUIT OR CABLE DOWN
	CIRCUIT HOMERUN
	SWITCHED CIRCUIT LEG (LIGHTING)
	UNSWITCHED CIRCUIT LEG (LIGHTING)
	CONDUIT UNDERGROUND OR UNDERSLAB
	BREAK
	GROUNDING CONNECTION
	WIRING DEVICE SYMBOLS
	WALL SWITCH, AT 48" AFF UNO. SUBSCRIPTS INDICATE THE FOLLOWING: (NONE) SINGLE POLE
	K KEYED
	D 0-10V DIMMER SWITCH
	DUPLEX RECEPTACLE AT 18" AFF OR GRADE, UNO. SUBSCRIPTS INDICATE THE FOLLOWING: GF GROUND FAULT CIRCUIT INTERRUPTER S SURFACE MOUNTED WP WEATHERPROOF AND GFCI TYPE
	PANELBOARD, STRUT MOUNTED
	DASHED LINES INDICATE REQUIRED CLEARANCES AROUND ELECTRICAL EQPT
	JUNCTION BOX
	EQUIPMENT CONNECTION.
	DISCONNECT SWITCH
	NF NON FUSED
	F.# FUSED, # INDICATES FUSE SIZE
	CB.# CIRCUIT BREAKER, # INDICATES TRIP
	LIGHT FIXTURES
	WALL MOUNTED EXTERIOR LIGHT FIXTURE
	HIGH BAY FIXTURE, MOUNTING HEIGHT AS INDICATED
	EXIT SIGN/EMERGENCY LIGHTING UNIT WITH EMERGENCY BATTERY, WALL MOUNTED, DARKENED QUADRANT INDICATES STENCILED FACE(S). ARROW INDICATES DIRECTIONAL EXIT, TYPE X1, UNO.

## ABBREVIATIONS

A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ABV	ABOVE
ADMIN	ADMINISTRATION
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
AE	ARCHITECT/ENGINEER
AV	AUDIO VISUAL
BAS	BUILDING AUTOMATION SYSTEM
BC	BLOWER COIL
BLDG	BUILDING
BRRR	BREAKER
CATV	CABLE TELEVISION
CIRC	CIRCULATION
CKT	CIRCUIT
CLASSRM	CLASSROOM
CLG	CEILING
CNTR	CONTACTOR
COMB	COMBINATION
COMM	COMMUNICATION
CONC	CONCRETE
C.CND	CONDUIT
CT	CURRENT TRANSFORMER
CTR	CENTER
CTRL	CONTROL
CU	COPPER
dB	DECIBELS
DF	DRINKING FOUNTAIN
DIAM	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
EF	EXHAUST FAN
E.E.M.EMERG	EMERGENCY
ELEC	ELECTRIC
ELEV	ELEVATION
EMS	ENERGY MANAGEMENT SYSTEM
EMT	ELECTRIC METALLIC TUBING
EQPT	EQUIPMENT
ERV	ENERGY RECOVERY VENTILATOR
EUH	ELECTRIC UNIT HEATER
EW	ELECTRIC WATER COOLER
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FC	FOOT CANDLES
FDISC	FUSED DISCONNECT SWITCH
FLR	FLOOR
FT	FOOT FEET
GEC	GROUNDING ELECTRODE CONDUCTOR
GF	GROUND FAULT
G.F.C.I	GROUND FAULT CIRCUIT INTERRUPTER
G.GND	GROUND
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HTR	HEATER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER UNIT HEATER
HZ	HERTZ
IG	ISOLATED GROUND
IP	INTERNET PROTOCOL
JB	JUNCTION BOX
KAIC	1,000 AMPERE INTERRUPTING CURRENT THOUSAND CIRCULAR MILS
kcmil	KILOWATT
KW	KILOWATT
KVA	KILOVOLT AMPERE
LTG	LIGHTING
LTS	LIGHTS
LV	LOW VOLTAGE
MAX	MAXIMUM
MB	MAIN BREAKER
MFR	MANUFACTURER
MH	MOUNTING HEIGHT (AFF UNO)
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NEMA	NATIONAL ELECTRICAL MFRS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NTS	NOT TO SCALE
OAU	OUTSIDE AIR UNIT
OC	ON CENTER
OCPD	OVER CURRENT PROTECTIVE DEVICE
P	POLE
PB	PULL BOX
PH	PHASE
PNL	PANEL
POE	POWER OVER ETHERNET
PTZ	PAN, TILT, ZOOM
PWR	POWER
RA	RETURN AIR
REC	RECEPTACLE
REFR	REFRIGERATOR
REQD	EQUIRED
RM	ROOM
SA	SUPPLY AIR
SE	SERVICE ENTRANCE
SECT	SECTION
SF	SQUARE FEET
SPD	SURGE PROTECTION DEVICE
SPKR	SPEAKER
ST	SHUNT TRIP
STRTR	STARTER
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
TD	TELEDATA
TEL	TELEPHONE
THD	TOTAL HARMONIC DISTORTION
THRU	THROUGH
TP	TRAP PRIMER
TYP	TYPICAL
UL	UNDERWRITER LABORATORIES
UNO	UNLESS NOTED OTHERWISE
USB	UNIVERSAL SERIAL BUS
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
VUSBC	VIRGINIA UNIFORM STATEWIDE BUILDING CODE
W	WATTS
W	WITH
W/O	WITHOUT
WG	WIRE GUARD
WP	WEATHERPROOF
WTR	WATER
XFMR	TRANSFORMER

## GENERAL NOTES (DEMO)

- PRIOR TO BIDDING, THE CONTRACTOR SHALL VISIT THE SITE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND TO VERIFY LOCATION, SIZE AND QUANTITY OF ITEMS TO BE REMOVED. SUBMITTAL OF A BID SHALL SIGNIFY WILLINGNESS TO COMPLY WITH THE DEMOLITION PLANS AND ACCEPTANCE OF ON-SITE CONDITIONS AS THEY EXIST.
- IN GENERAL, ALL EXISTING ELECTRICAL SYSTEMS, APPURTENANCES, CONTROLS, ETC SHALL BE REMOVED IN THEIR ENTIRETY, WHETHER OR NOT SHOWN ON THE DEMOLITION PLANS, UNO. DOCUMENTATION OF EXISTING SYSTEMS IS BASED ON AVAILABLE RECORD DRAWINGS AND CASUAL FIELD OBSERVATION. MAJOR DISCREPANCIES SHALL BE REFERRED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.
- CONTRACTOR SHALL REMOVE ALL PORTIONS OF EXPOSED SYSTEMS, COMPONENTS EMBEDDED WITHIN OR BENEATH THE EXISTING STRUCTURE MAY BE ABANDONED IN PLACE, CUT BEHIND WALL/FLOOR/CEILING SURFACE AS REQUIRED FOR PATCHING OF FINISH. WATER-CONTAINING SYSTEMS SHALL BE CAPPED WATERTIGHT.
- WHERE EXISTING ELECTRICAL SYSTEMS PENETRATE EXTERIOR WALLS, CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING SUCH PENETRATIONS TO MATCH EXISTING, UNO.
- SALVAGE ITEMS AND MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER AND AS A PART OF THIS CONTRACT, THE CONTRACTOR SHALL DELIVER THESE TO A DESTINATION AS DIRECTED BY THE PROJECT MANAGER.
- REMOVE EACH ITEM OF EQUIPMENT, DEVICE, AND FIXTURE INDICATED ON DEMOLITION PLANS AND ITS ASSOCIATED CIRCUITRY BACK TO THE PROTECTIVE DEVICE IN THE PANEL, SWITCHBOARD, OR CONTROLLER, EXCEPT AS OTHERWISE NOTED.
- ASSOCIATED CIRCUITRY INCLUDES CONDUIT, CONDUCTORS, BOXES, WIRING DEVICES, COVERPLATES, LAMPS, FIXTURES WIREWAYS, SWITCHES, STARTERS, ETC., WHICH ARE ASSOCIATED WITH THE ITEM TO BE REMOVED.
- DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS AND CEILINGS TO BE REMOVED.
- REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY.
- REMOVE EXPOSED ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES, CUT CONDUIT FLUSH WITH WALLS AND FLOORS. PATCH SURFACES.
- DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS THAT ARE NOT REMOVED.
- DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT.
- DISCONNECT AND REMOVE ELECTRICAL DEVICES AND EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED.
- DISCONNECT AND REMOVE ABANDONED LUMINAIRES, REMOVE BRACKETS, STEMS, HANGERS AND OTHER ACCESSORIES.
- REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK.
- EXACT CIRCUITING FOR EXISTING RECEPTACLES, LIGHTING AND OTHER LOADS NOTED FOR DEMOLITION SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO DEMOLITION.
- CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT THAT ARE TO REMAIN OR THAT ARE TO BE REUSED.

## GENERAL NOTES (NEW WORK)

- THESE NOTES APPLY TO ALL ELECTRICAL DRAWINGS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH IBC 2015 VUSBC 2015, 2014 NEC AND IBC 2015 AND LOCAL CODES AS REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ).
- COORDINATE ALL WORK WITH THE CONSTRUCTION COMPLETION SCHEDULE SPECIFIED FOR THE PROJECT AND WITH ALL OTHER TRADES TO ENSURE THAT PROJECT IS COMPLETED ON SCHEDULE.
- THE CONTRACTOR SHALL INCLUDE IN THEIR PRICE AFTER HOURS LABOR AND / OR WEEKEND LABOR FOR ALL WORK REQUIRED TO MEET MILESTONE DEADLINES AND CONSTRUCTION COMPLETION SCHEDULE.
- PAY FOR AND OBTAIN ALL PERMITS UPON COMPLETION OF WORK. PRESENT THE OWNER WITH A CERTIFICATE FOR FINAL INSPECTION FROM THE LOCAL AUTHORITY.
- EXIT SIGNS SHALL BE CONNECTED AHEAD OF ALL SWITCHING AND CONTROLS.
- IN THE PANELBOARD SCHEDULES, THE ROOM NUMBER INDICATES THE LOCATION ON THE DRAWING OF THE FIRST ITEM TO BE ENERGIZED BY THE CIRCUIT. FINAL PANEL DIRECTORIES SHALL REFLECT ALL FINAL ROOM NUMBERS FOR LOADS SERVED.
- MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, ARE TO CENTER LINE OF EQUIPMENT, EXCEPT MOUNTING HEIGHTS OF LIGHTING FIXTURES WHICH IS TO BOTTOM OF FIXTURE, UNLESS NOTED OTHERWISE. IN ALL CASES, COMPLY WITH ADA REQUIREMENTS FOR MAXIMUM OR MINIMUM ALLOWABLE HEIGHT WHETHER INDICATED ON DRAWINGS OR NOT.
- ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED ABOVE FINISHED CEILINGS, WITHIN WALLS, OR BELOW FLOORS IN FINISHED SPACES.
- PLACE JUNCTION BOXES IN ACCESSIBLE LOCATIONS ABOVE CEILINGS. ENSURE THAT ACCESS TO PULL OR J BOXES IS NOT BLOCKED. DO NOT LOCATE PULL OR J BOXES DIRECTLY ABOVE OTHER EQUIPMENT LOCATED IN THE CEILING SPACE. DO NOT LOCATE PULL OR J BOXES ABOVE INACCESSIBLE CEILINGS (I.E. TOILET ROOMS, RESTROOMS, ETC. OR AS INDICATED ON THE ARCHITECTURAL RCP).
- MECHANICAL AND PLUMBING EQUIPMENT IS SHOWN IN APPROXIMATE LOCATIONS. FOR EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT AND PIPING, SEE MECHANICAL AND PLUMBING DRAWINGS.
- DIVISION 26 CONTRACTOR SHALL INCLUDE IN HIS PRICE COORDINATION AND CONNECTION OF ALL HVAC, PLUMBING, KITCHEN AND OTHER CONTRACTOR OR OWNER FURNISHED EQUIPMENT. CHECK EQUIPMENT SHOP DRAWINGS AND COORDINATE WITH HVAC, PLUMBING AND ALL OTHER EQUIPMENT CONTRACTORS FOR DISCONNECT SWITCH, CONDUIT, WIRING REQUIREMENTS, FUSE AND BREAKER SIZES AND VOLTAGE REQUIREMENTS. ADDITIONAL PAYMENT FOR CONTRACTOR'S FAILURE TO COORDINATE OVERCURRENT PROTECTION WITH NAMEPLATE DATA REQUIREMENTS OF ACTUAL EQUIPMENT PURCHASED WILL NOT BE CONSIDERED.
- THE ELECTRICAL CONTRACTOR(S) SHALL COORDINATE THEIR WORK WITH ALL TRADES PRIOR TO FABRICATION OF SYSTEMS AND COMMENCEMENT OF INSTALLATION, AND PRIOR TO ANY PROCUREMENT OF MATERIALS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REVIEW THE WORK OF OTHER TRADES (INCLUDING, BUT NOT LIMITED TO STRUCTURAL, ARCHITECTURAL, CIVIL, FIRE ALARM, MECHANICAL, PLUMBING, TELEDATA, KITCHEN, SECURITY, THEATRICAL AND AV) AS IT AFFECTS THE ELECTRICAL WORK, AND AS THE ELECTRICAL WORK AFFECTS OTHER TRADES TO ENSURE THE CONSTRUCTION DOCUMENTS ARE CLOSELY FOLLOWED. WHERE DISCREPANCIES ARISE, THEY SHALL BE REFERRED TO THE AE FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- COORDINATE ELECTRIC SERVICE WITH LOCAL POWER COMPANY. MAKE PROVISIONS FOR METERING AS REQUIRED BY POWER CO. IT SHALL BE THE ELECTRICAL CONTRACTOR(S) RESPONSIBILITY TO COORDINATE ALL REQUIREMENTS WITH THE LOCAL POWER COMPANY PRIOR TO SUBMISSION OF BID. ANY ADDITIONAL COSTS REQUIRED FROM THE POWER COMPANY SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. PROVIDE LOAD LETTER WITH APPLICATION TO LOCAL UTILITY COMPANY.
- THE DESIGN IS BASED ON MFRS AND MODELS INDICATED AND IS INTENDED TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS, AND/OR SUPPORT FOR EQUIPMENT OR SYSTEMS WITH RELATION TO THE OTHER BUILDING SYSTEMS. SEE SPECIFICATION SECTIONS FOR TECHNICAL REQUIREMENTS.
- DIVISION 26 CONTRACTOR SHALL FURNISH AND INSTALL ALL BACK BOXES AND EMPTY CONDUITS FOR SPACE OR ZONE TEMPERATURE HUMIDITY OR CO2 SENSORS, ETC. ALL EMS WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE CONCEALED IN FINISHED SPACES. SEE MECHANICAL DRAWINGS FOR LOCATIONS AND QUANTITIES.

ARLINGTON VIRGINIA

DEPARTMENT OF PARKS, RECREATION AND CULTURAL RESOURCES

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21-DPR-ITB-356

Project Name and

Gunston Park Enclosed Athletic Facility Improvements

28th Street South  
Arlington, VA

Sheet

LEGEND, ABBREVIATIONS AND GENERAL NOTES

Approval Date

Department Director

Park Development Division Chief

Design Unit Supervisor

Dat	Revision	
05/26/20	Permit Submission	△
04/26/21	Bid Set	

Designed: JP  
Drawn: JP  
Checked: BMW

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Date 05/26/20

Seal

ELECTRICAL	
Sheet Number	Sheet Name
E-001	LEGEND, ABBREVIATIONS AND GENERAL NOTES
E-101	FLOOR PLAN DEMOLITION
E-102	FLOOR PLAN NEW WORK
E-501	DETAILS
E-601	RISER AND SCHEDULES

BID SET SUBMISSION

Sheet

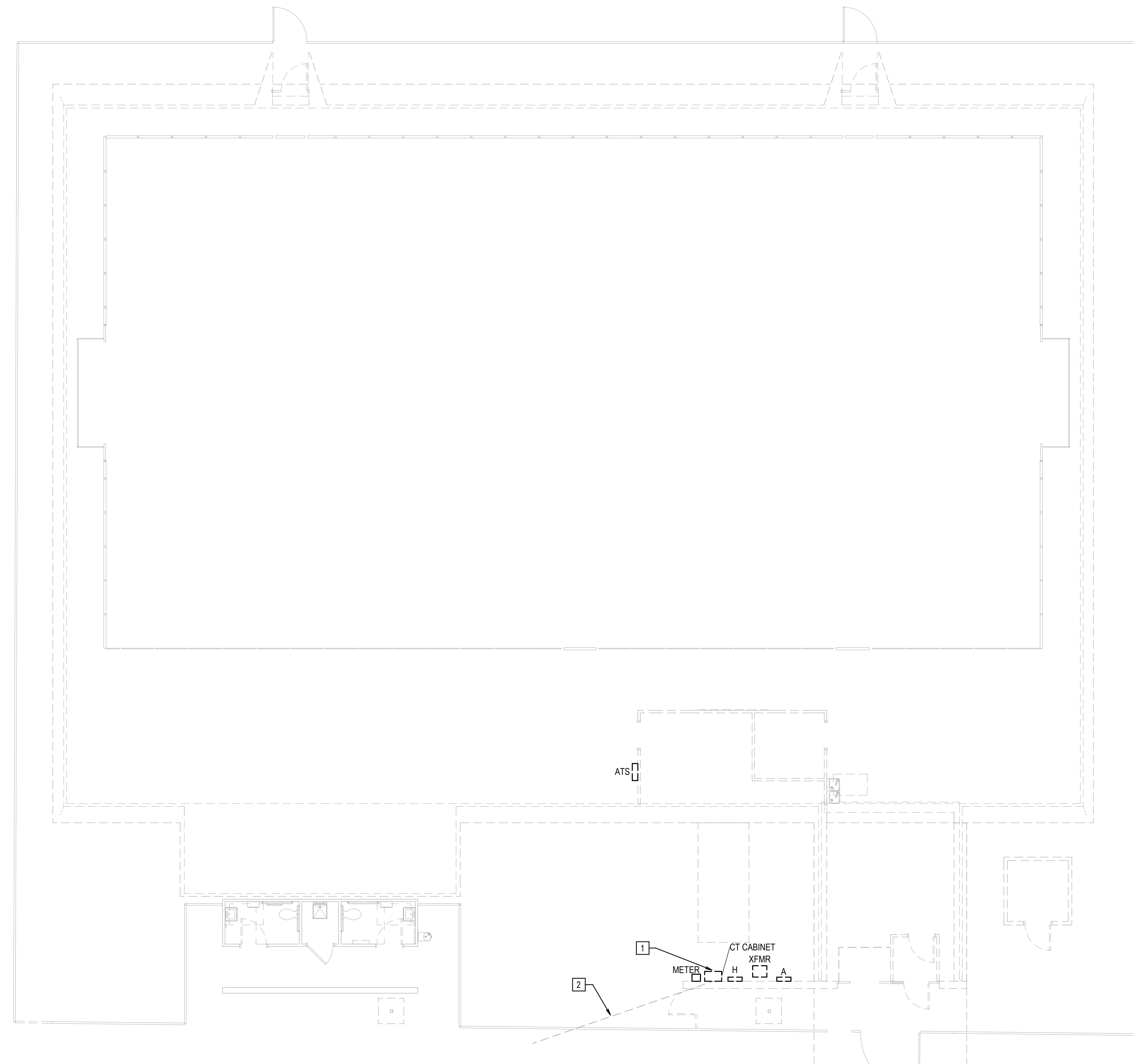
E-001

**GENERAL NOTES (DEMO)**

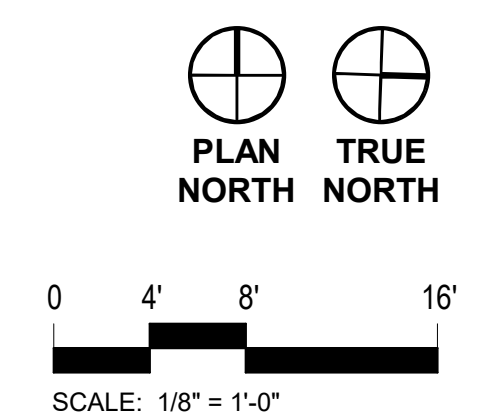
1. DEMOLISH ALL LIGHTING, POWER, AND CONDUIT INSIDE THE EXISTING STRUCTURE. FIELD VERIFY ALL DEMOLITION REQUIRED PRIOR TO SUBMITTING A BID PRICE.

**KEY NOTES (DEMO)**

1. DISCONNECT THE EXISTING UTILITY METER AND CT CABINET AND STORE FOR RE-USE.
2. EXISTING UNDERGROUND ELECTRIC SERVICE TO REMAIN (AND EXTENDED)



**1** FLOOR PLAN DEMOLITION  
 - E-101 SCALE: 1/8" = 1'-0"  
 0 2' 4' 8' 16'



**ARLINGTON**  
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**21-DPR-ITB-356**

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**Gunston Park  
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 28th Street South  
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Sheet  
**FLOOR PLAN  
 DEMOLITION**

Approval \_\_\_\_\_ Date \_\_\_\_\_  
 Department Director \_\_\_\_\_  
 Park Development Division Chief \_\_\_\_\_

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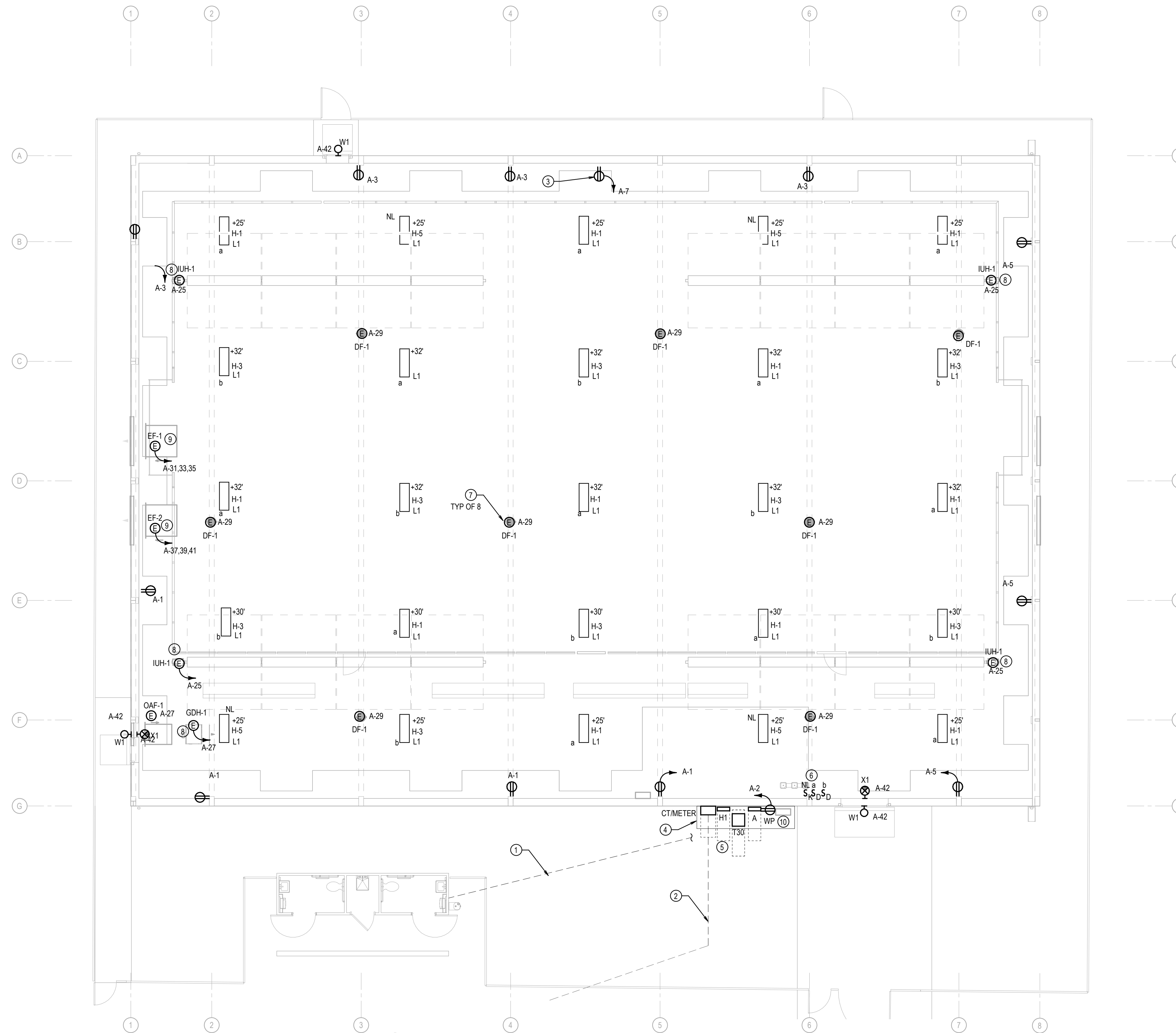
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**E-101**

**GENERAL NOTES (NEW WORK)**

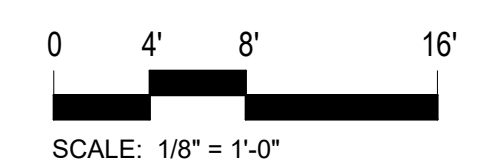
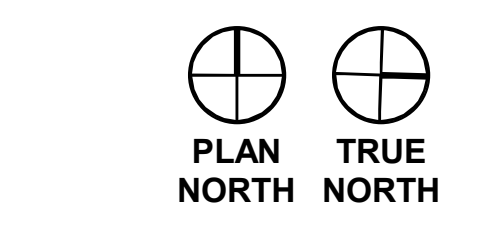
- COORDINATE ALL ELECTRICAL EQUIPMENT AND DEVICE MOUNTING WITH THE PRE-FABRICATED BUILDING MANUFACTURER. DO NOT CUT, DRILL, OR WELD ANY PART OF THE BUILDING STRUCTURE WITHOUT WRITTEN APPROVAL. COORDINATE ALL EXTERIOR WALL PENETRATIONS AND SEAL WATER-TIGHT IN ACCORDANCE WITH THE BUILDING MANUFACTURER.
- AS INDICATED: CONNECT ALL "a" LIGHTING AND CONTROLS TO CIRCUIT #1 IN PANEL H. CONNECT ALL "b" LIGHTING AND CONTROLS TO CIRCUIT #3 IN PANEL H. CONNECT ALL "NL" FIXTURES AND CONTROLS TO CIRCUIT #5 IN PANEL H. CONNECT ALL EXTERIOR AND EXIT SIGNS TO CIRCUIT #42 IN PANEL A.
- GENERALLY, ROUTE ALL POWER WIRING AS HIGH AS POSSIBLE, ATTACHED TO THE BUILDING STRUCTURE. FOLLOW THE BUILDING STRUCTURE TO THE EXTENT POSSIBLE, BEFORE MAKING FINAL CONNECTIONS. NO WIRING IS PERMITTED LOWER THAN 24' ABOVE THE SOCCER FIELD.
- COORDINATE ALL PENETRATIONS THROUGH THE BUILDING MEMBRANE AND SEAL IN ACCORDANCE WITH THE BUILDING MANUFACTURER'S RECOMMENDATIONS.

**KEY NOTES (NEW WORK)**

- APPROXIMATE TRENCH FOR ALL BRANCH CIRCUITS FOR THE RESTROOM. REFER TO THE PANEL SCHEDULE FOR APPLICABLE CIRCUITS.
- EXTEND THE EXISTING DOMINION ENERGY UNDERGROUND SECONDARIES FROM THE EXISTING LOCATION TO THE NEW LOCATION. PROVIDE NEW SECONDARY FEEDERS TO THE EXISTING UTILITY TRANSFORMER.
- RECEPTACLE FOR SCOREBOARD. COORDINATE EXACT LOCATION AND MOUNTING WITH FINAL LOCATION OF THE SCOREBOARD. SCOREBOARD IS ASSUMED TO HAVE A WIRELESS CONTROL STATION.
- PROVIDE A 6" TALL CONCRETE HOUSEKEEPING PAD.
- PROVIDE A FREE STANDING STRUT SUPPORT RACK FOR THE PANELBOARDS AND UTILITY EQUIPMENT. PROVIDE STAINLESS STEEL STRUT AND HARDWARE. ALL SUPPORT POSTS (MINIMUM OF 3) ARE TO BE A MINIMUM DEPTH OF 24" AND BACKFILLED WITH CONCRETE.
- PROVIDE A HINGED, LOCKABLE WIRE GUARD AROUND THE SWITCHES. PROVIDE A 4-ZONE, DIGITAL TIMECLOCK WIRED UPSTREAM OF THE LOCAL SWITCHES. MOUNT ON COLUMN UNDER SWITCHES. PROVIDE A HINGED, LOCKABLE WIRE COVER OVER THE TIMECLOCK. TIME CLOCK: INTERMATIC ET2845C OR EQUAL.
- CONNECT ALL DF-1 TO CIRCUIT #29 IN PANEL "A" AS INDICATED. WIRE THROUGH THE TRIAC SPEED CONTROLLERS ON THE WALL AND PROVIDE A RECEPTACLE AT EACH DF-1 LOCATION IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. REFER TO THE MECHANICAL DRAWINGS FOR SPEED CONTROLLER LOCATIONS AND NUMBER OF CONTROL ZONES.
- PROVIDE A SINGLE-POLE, 20A TOGGLE SWITCH MOUNTED TO THE SIDE OF THE HEATER FOR DISCONNECTING MEANS.
- PROVIDE A 3-POLE, 20A TOGGLE SWITCH MOUNTED TO THE SIDE OF THE EQUIPMENT SUPPORTS FOR DISCONNECTING MEANS.
- APPROXIMATE LOCATION OF GAS METER AND SERVICE, SHOWN FOR REFERENCE ONLY.



**1 FLOOR PLAN NEW WORK**  
 SCALE: 1/8" = 1'-0"  
 0 2' 4' 8' 16'



**ARLINGTON**  
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DEPARTMENT OF PARKS,  
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**21-DPR-ITB-356**

Project Name and  
**Gunston Park  
 Enclosed  
 Athletic Facility  
 Improvements**

28th Street South  
 Arlington, VA

Sheet

**FLOOR PLAN NEW  
 WORK**

Approval \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Dat	Revision	
05/26/20	Permit Submission	△
01/15/21	Revision 1	1
03/16/21	Revision 2	2
04/26/21	Bid Set	

Designed:  
 Drawn: **JP**  
 Checked: **BMW**

Filename:  
 Plotted:

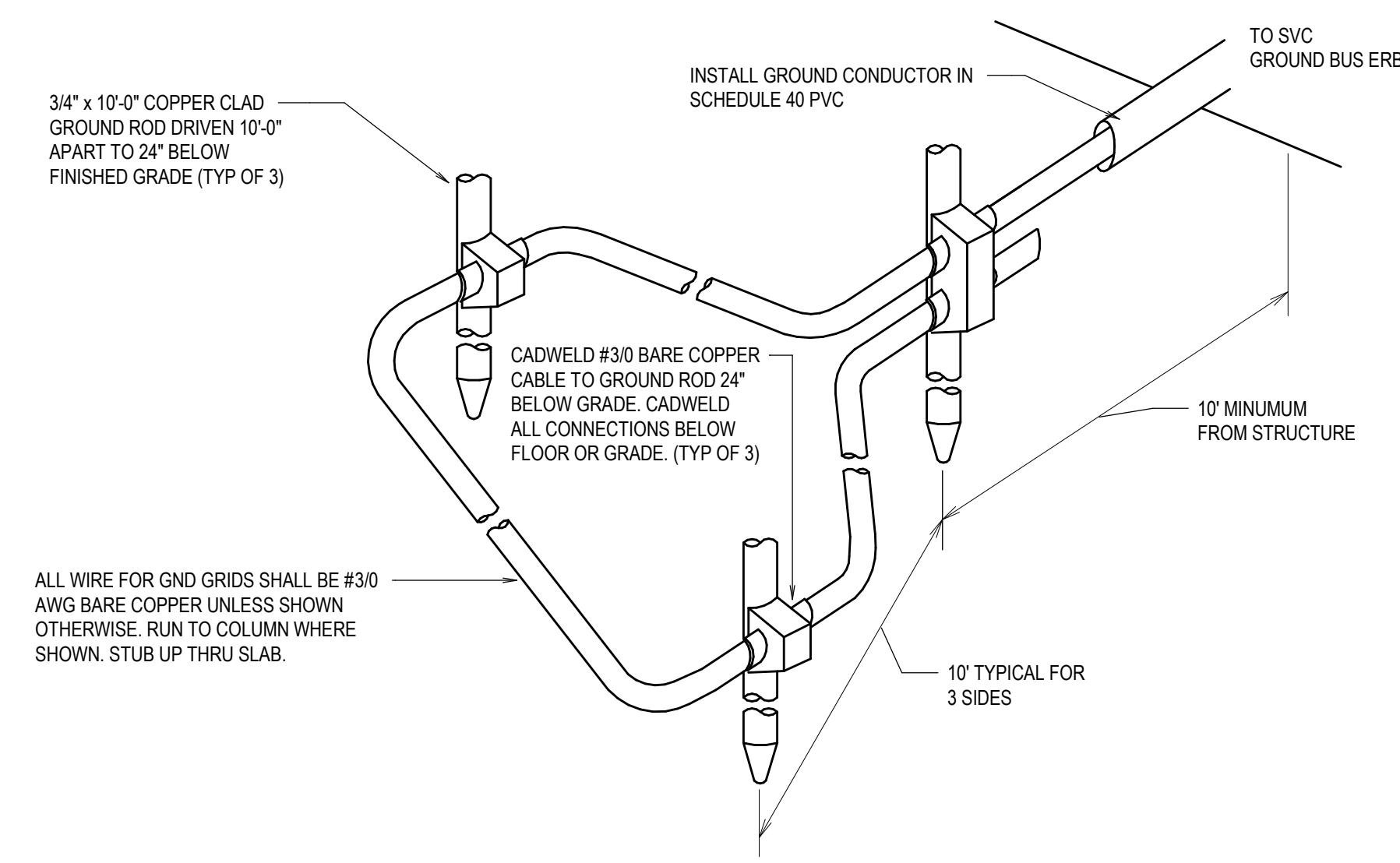
Scale: AS INDICATED  
 Date **05/26/20**

Seal

**BID SET SUBMISSION**

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**E-102**



**1** GROUNDING COUNTERPOISE DETAIL  
 -- E-501 SCALE: NONE

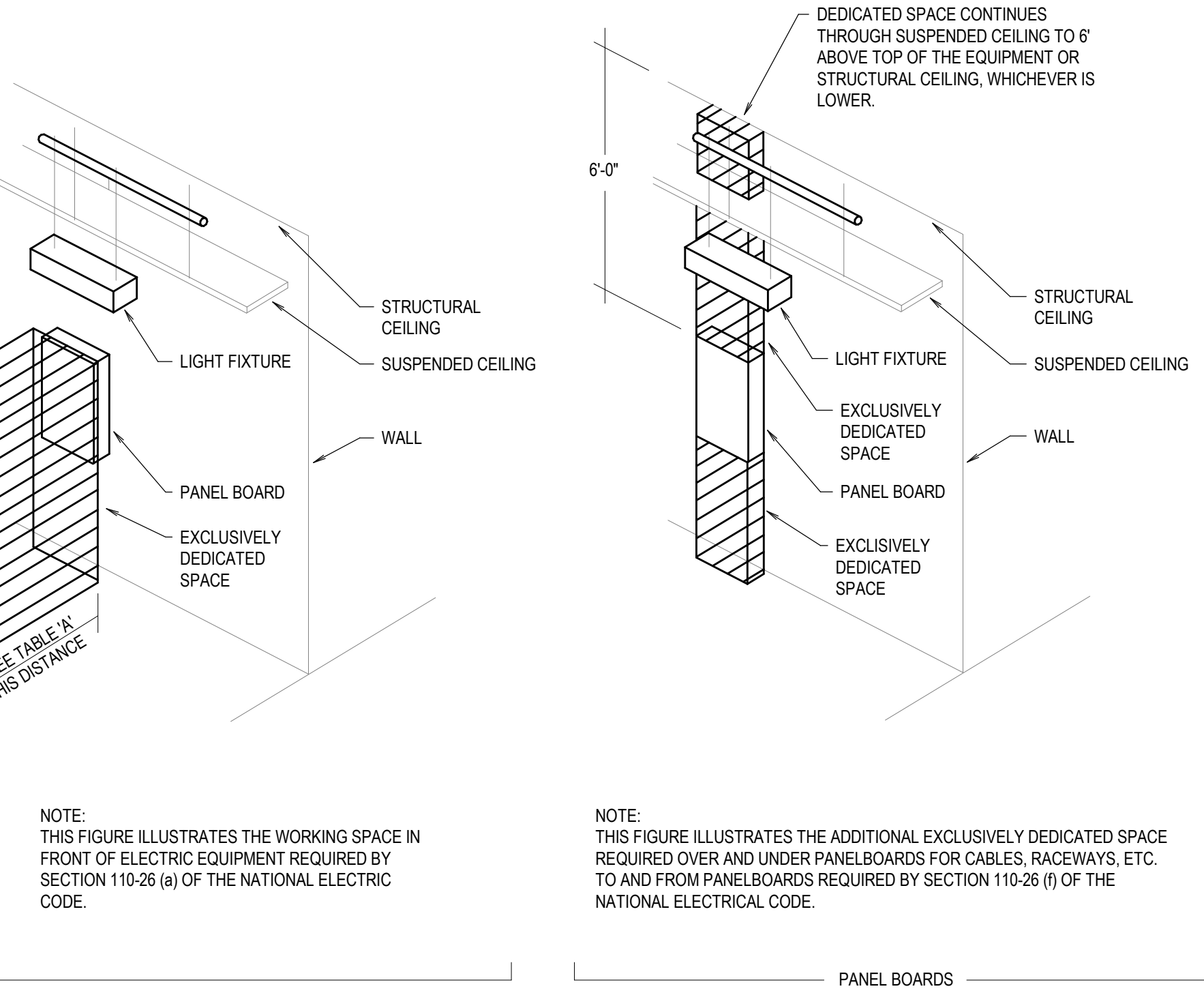
TABLE "A" - WORKING CLEARANCES			
VOLTAGE TO GROUND, NOMINAL	CONDITION:		
	1	2	3
0-150	3	3	3
151-600	3	3.5	4

WHERE THE CONDITIONS ARE AS FOLLOWS:

1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

30" OR WIDTH OF EQUIPMENT IF EQUIPMENT IS WIDER THAN 30" DOES NOT HAVE TO BE CENTERED ON THE EQUIPMENT BUT AT LEAST EVEN WITH ONE EDGE. EQUIPMENT DOOR SHALL BE ABLE TO OPEN AT LEAST 90 DEG.

NOTE: THIS INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRIC EQUIPMENT.



NOTE: THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF ELECTRIC EQUIPMENT REQUIRED BY SECTION 110-26 (a) OF THE NATIONAL ELECTRIC CODE.

NOTE: THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRED OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, ETC. TO AND FROM PANELBOARDS REQUIRED BY SECTION 110-26 (f) OF THE NATIONAL ELECTRICAL CODE.

**2** DEDICATED WORKING SPACE FOR EQUIPMENT  
 -- E-501 SCALE: NONE

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**21-DPR-ITB-356**

Project Name and  
**Gunston Park  
 Enclosed  
 Athletic Facility  
 Improvements**

28th Street South  
 Arlington, VA

Sheet

**DETAILS**

Approval \_\_\_\_\_ Date \_\_\_\_\_

Department Director \_\_\_\_\_

Park Development Division Chief \_\_\_\_\_

Design Unit Supervisor \_\_\_\_\_

Dat	Revision	
05/26/20	Permit Submission	△
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Designed:  
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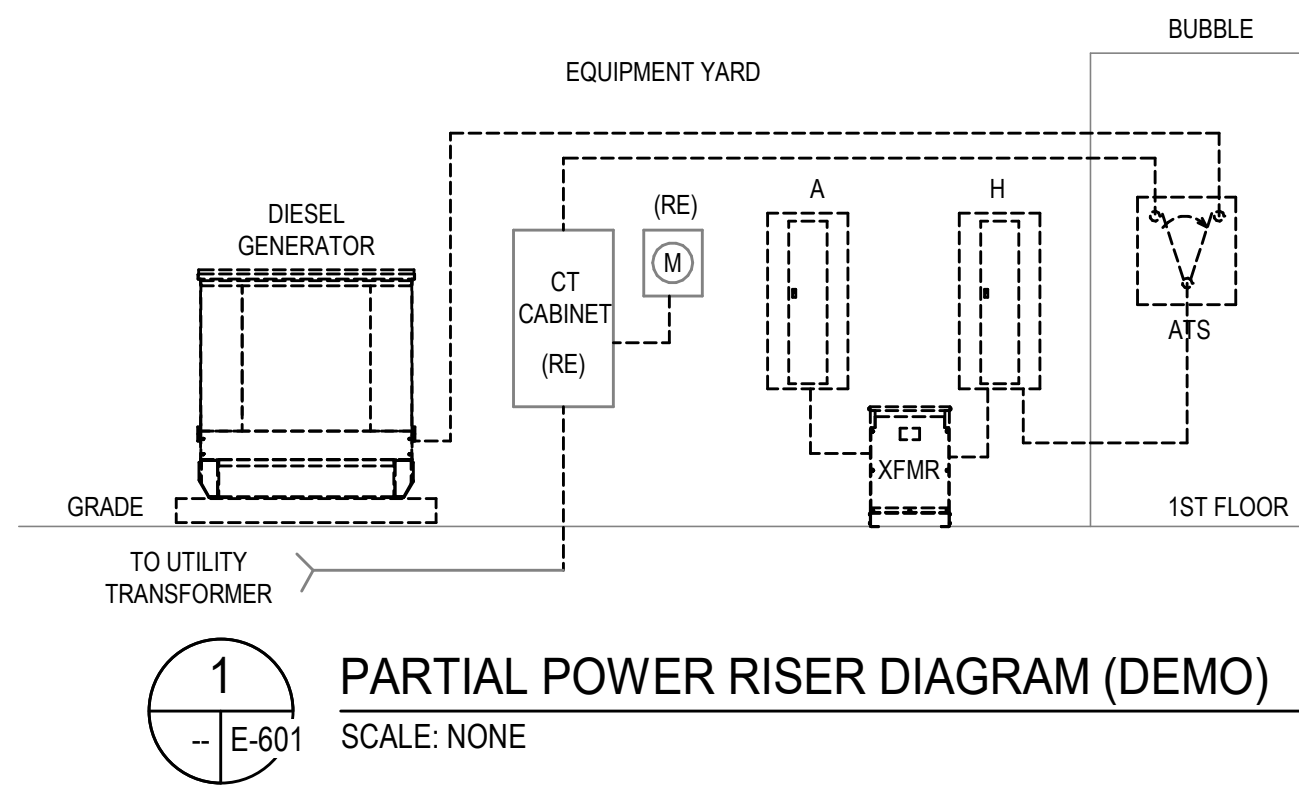
Scale: AS INDICATED  
 Date **05/26/20**

Seal

**BID SET SUBMISSION**

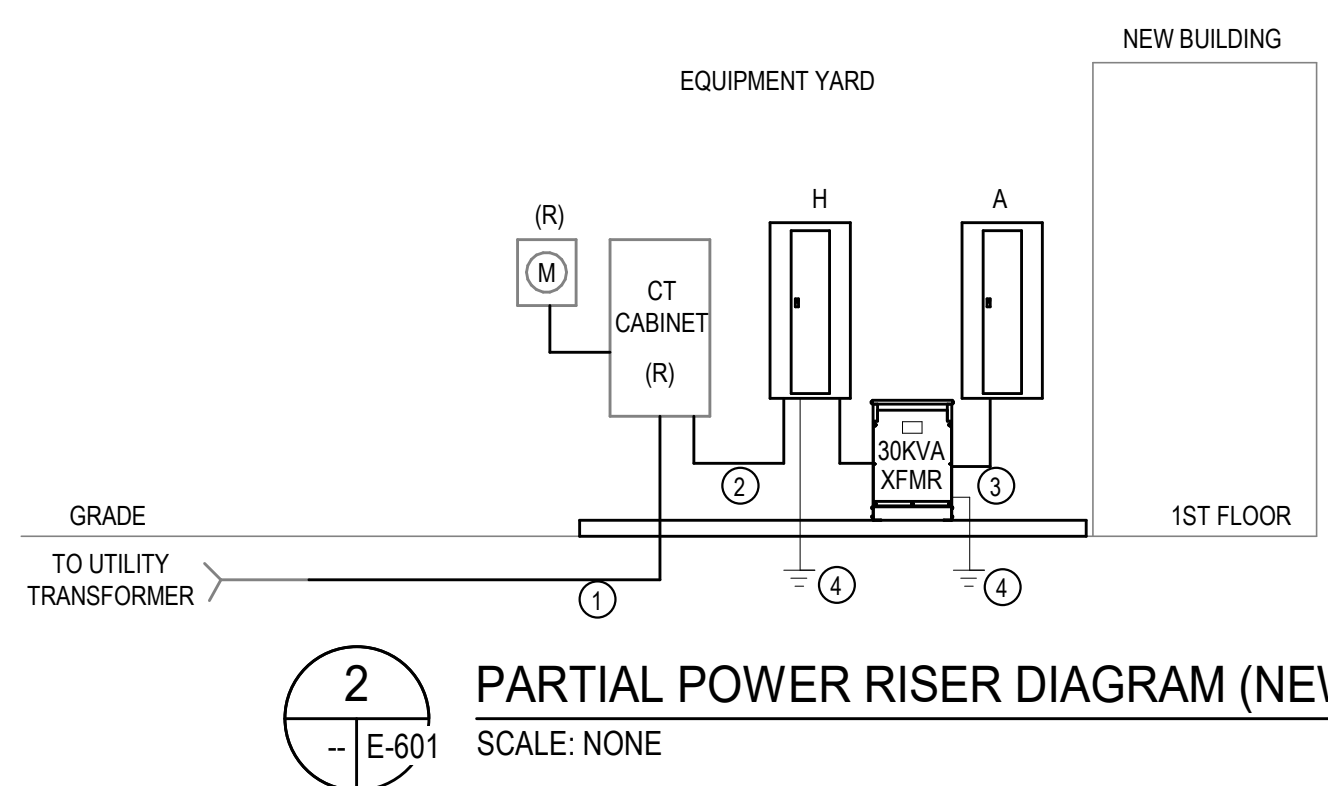
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**E-501**



1 PARTIAL POWER RISER DIAGRAM (DEMO)

SCALE: NONE



2 PARTIAL POWER RISER DIAGRAM (NEW)

SCALE: NONE

KEY NOTES (NEW WORK)

- 1. EXTEND THE EXISTING DOMINION ENERGY UNDERGROUND SECONDARIES FROM THE EXISTING LOCATION TO THE NEW LOCATION. PROVIDE NEW SECONDARY FEEDERS TO THE EXISTING UTILITY TRANSFORMER.
- 2. PROVIDE 3-#3/0 FEEDERS WITH #4 GROUND IN 2-1/2" CONDUIT.
- 3. PROVIDE 4-#1 FEEDERS WITH #6 GROUND IN 1-1/2" CONDUIT.
- 4. PROVIDE GROUNDING AND BONDING IN ACCORDANCE WITH THE NEC.

LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MFR/MODEL (BASIS OF DESIGN)	MTG	SOURCE/LAMP	COLOR TEMP	MAX R/C DEPTH	INPUT WATTS	REMARKS
L1	LINEAR LED HIGH BAY FIXTURE WITH WIRE GUARD	MFR: LITHONIA MODEL: IBL 30L WD SD125 LP835 WGX	P	LED	3500K		241	
W1	WALL MOUNTED EXTERIOR LIGHT WITH INTEGRAL DIMMING MOTION SENSOR/PHOTOCELL	MFR: COOPER MODEL: AXCS2A-MSP/DIM-L12	W	LED	4000K		21	
X1	EXIT SIGN WITH EMERGENCY LED LAMPS	MFR: SURELITES MODEL: APC-H-7-R	U	LED	N/A		2	PROVIDE A WIRE GUARD CAGE

BASIS OF DESIGN STATEMENT:

THE DESIGN IS BASED ON THE MANUFACTURERS AND MODELS INDICATED AND IS INTENDED ONLY TO SHOW THE GENERAL SIZE, CONFIGURATION, LOCATION, CONNECTIONS AND/OR SUPPORT FOR THE EQUIPMENT OR SYSTEMS SPECIFIED WITH RELATION TO THE OTHER BUILDING SYSTEMS. REFER TO DIV 26 SPECIFICATION SECTIONS FOR ADDITIONAL TECHNICAL REQUIREMENTS.

MTG KEY:

- C COVE
- P PENDANT
- R/C RECESSED / CEILING
- SUSP SUSPENDED
- S/C SURFACE / CEILING
- S/U SURFACE / TO UNISTRUT
- S/W SURFACE / WALL
- U UNIVERSAL
- U/C UNDER CABINET
- W WALL

NOTES:

- 1. REFER TO LIGHTING PLANS FOR CHEVRONS AND FACES FOR EXIT SIGNS.
- 2. FIXTURES ON SCHEDULE ARE TYPICALLY INDICATED FOR GRID TYPE INSTALLATION. IN INSTANCES WHERE CEILING TYPE DIFFERS, PROVIDE FIXTURES AS INDICATED AND DESIGNED FOR THAT APPLICATION. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
- 3. PROVIDE ALL FIXTURES WITH ALL ACCESSORIES NECESSARY FOR A COMPLETE INSTALLATION.
- 4. LED FIXTURES SHALL HAVE RATED LIFE BASED ON IESNA TM-21 (BASED ON LM-80 DATA) AND PHOTOMETRIC PERFORMANCE TESTED IN ACCORDANCE WITH IESNA 79.
- 5. ALL LIGHT SOURCES SHALL HAVE MINIMUM CRI OF 80, UNO.
- 6. ALL FIXTURES SHALL BE RATED 120/277 MULTI-VOLT, UNO.
- 7. PROVIDE EMERGENCY BATTERY BACKUP FOR FIXTURES WHERE INDICATED ON PLANS. MINIMUM 1300 LUMEN OUTPUT, EXCEPT DOWNLIGHTS, 700 LUMEN OUTPUT.
- 8. INPUT POWER AND LUMEN OUTPUT TOLERANCE OF SUBSTITUTED FIXTURES (IF PERMITTED) IS +/-10% (+/-5% FOR FIXTURES ≤2000 LUMENS)

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21-DPR-ITB-356

Project Name and

Gunston Park Enclosed Athletic Facility Improvements

28th Street South  
Arlington, VA

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RISER AND SCHEDULES

Approval Date

Department Director

Park Development Division Chief

Design Unit Supervisor

Dat Revision  
05/26/20 Permit Submission  
04/26/21 Bid Set

Designed:  
Drawn: JP  
Checked: BMW

Filename:  
Plotted:

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Date 05/26/20

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E-601

PANEL NO.: A													BUS AMPS: 100A					FED FROM: PANEL A VIA T30					INTEGRAL SPD: NONE				
PHASES: 3													MAIN CB AMPS: 100A					MOUNTING: PAD					LOCATION: EQUIPMENT YARD				
VOLTS: 208V													AIC RATING: 10,000 MINIMUM					NEMA 3R ENCLOSURE					PANEL TYPE: LIGHTING AND APPLIANCE				
CIRCUIT													LOAD					DESCRIPTION					LOAD				
SETS	WIRE	NEUT.	GND.	CND.	AMPS.	DESCRIPTION	NOTES	BREAKER POLE	AMP.	CKT. #	CKT. #	BREAKER AMP.	POLE	NOTES	DESCRIPTION	LOAD AMPS.	SETS	WIRE	NEUT.	GND.	CND.						
1	#12	#12	#12	3/4"	6.0	FIELD BUILDING RECEPES		1	20	1	A	2	20	1	RECEPTACLE UNDER PANEL	1.5	1	#12	#12	#12	3/4"						
1	#10	#10	#10	3/4"	6.0	FIELD BUILDING RECEPES		1	20	3	B	4	20	1	SPARE	0.0											
1	#12	#12	#12	3/4"	4.5	FIELD BUILDING RECEPES		1	20	5	C	6	20	1	SPARE	0.0											
1	#12	#12	#12	3/4"	3.0	FIELD BUILDING SCOREBOARD		1	20	7	A	8	30	3	EX RESTROOM WATER HEATER	20.8	1	#10	#10	#10	3/4"						
					0.0	SPARE		1	20	9	B	10			EX RESTROOM WATER HEATER	20.8											
					0.0	SPARE		1	20	11	C	12			EX RESTROOM WATER HEATER	20.8											
					0.0	SPARE		1	20	13	A	14	20	1	EX RESTROOM RECEPES	3.0	1	#12	#12	#12	3/4"						
					0.0	SPARE		1	20	15	B	16	20	1	EX RESTROOM HEAT PUMP	12.5	1	#12	#12	#12	3/4"						
					0.0	SPARE		1	20	17	C	18	20	1	EX RESTROOM LIGHTS	3.3	1	#12	#12	#12	3/4"						
1	#12	#12	#12	3/4"	3.0	EX RESTROOM RECEPES		1	20	19	A	20	20	1	EX RESTROOM RECEPES	3.0	1	#12	#12	#12	3/4"						
					0.0	SPARE		1	20	21	B	22	20	1	SPARE	0.0											
					0.0	SPARE		1	20	23	C	24	20	1	SPARE	0.0											
					0.0	SPARE		1	20	25	A	26	20	1	SPARE	0.0											
1	#12	#12	#12	3/4"	15.0	FIELD BUILDING OAF-1, GDH-1		1	20	27	B	28	20	1	SPARE	0.0											
1	#12	#12	#12	3/4"	3.6	FIELD BUILDING DF-1 (8)		1	20	29	C	30	20	1	SPARE	0.0											
1	#12	#12	#12	3/4"	10.6	FIELD BUILDING EF-1		3	15	31	A	32	20	1	SPARE	0.0											
					10.6	FIELD BUILDING EF-1				33	B	34	20	1	SPARE	0.0											
					10.6	FIELD BUILDING EF-1				35	C	36	20	1	SPARE	0.0											
1	#12	#12	#12	3/4"	10.6	FIELD BUILDING EF-2		3	15	37	A	38	20	1	SPARE	0.0											
					10.6	FIELD BUILDING EF-2				39	B	40	20	1	SPARE	0.0											
					10.6	FIELD BUILDING EF-2				41	C	42	20	1	FIELD BUILDING EXIT SIGNS & EXT LTS	0.7	1	#12	#12	#12	3/4"						

PANEL NOTES:  
1. ADJUST ALL CONDUCTOR SIZES FOR VOLTAGE DROP PER SPECIFICATIONS.  
2.  
3.  
4.  
5.  
6.

			CONN.	DEM.
TOTAL KVA			22.9	22.9
TOTAL AMPS			63.7	63.7

PANEL NO.: H													BUS AMPS: 225A					FED FROM: UTILITY					INTEGRAL SPD: NONE				
PHASES: 3													MAIN CB AMPS: 200A					MOUNTING: PAD					LOCATION: EQUIPMENT YARD				
VOLTS: 480V													AIC RATING: 35,000 MINIMUM					NEMA 3R ENCLOSURE					PANEL TYPE: LIGHTING AND APPLIANCE				
CIRCUIT													LOAD					DESCRIPTION					LOAD				
SETS	WIRE	NEUT.	GND.	CND.	AMPS.	DESCRIPTION	NOTES	BREAKER POLE	AMP.	CKT. #	CKT. #	BREAKER AMP.	POLE	NOTES	DESCRIPTION	LOAD AMPS.	SETS	WIRE	NEUT.	GND.	CND.						
1	#12	#12	#12	3/4"	10.5	FIELD BUILDING "A" LIGHTS		1	20	1	A	2	20	1	SPARE	0.0											
1	#12	#12	#12	3/4"	7.9	FIELD BUILDING "B" LIGHTS		1	20	3	B	4	20	1	SPARE	0.0											
1	#12	#12	#12	3/4"	3.5	FIELD BUILDING "NL" LIGHTS		1	20	5	C	6	20	1	SPARE	0.0											
					0.0	SPARE		1	20	7	A	8	20	1	SPARE	0.0											
					0.0	SPARE		1	20	9	B	10	20	1	SPARE	0.0											
					0.0	SPARE		1	20	11	C	12	20	1	SPARE	0.0											
					0.0	SPARE		1	20	13	A	14	20	1	SPARE	0.0											
					0.0	SPARE		1	20	15	B	16	20	1	SPARE	0.0											
					0.0	SPARE		1	20	17	C	18	20	1	SPARE	0.0											
					0.0	SPARE		1	20	19	A	20	45	3	PANEL "A" VIA T30	26.6	1	#6	-	#10	1"						
					0.0	SPARE		1	20	21	B	22			PANEL "A" VIA T30	32.7											
					0.0	SPARE		1	20	23	C	24			PANEL "A" VIA T30	23.4											

PANEL NOTES:  
1. ADJUST ALL CONDUCTOR SIZES FOR VOLTAGE DROP PER SPECIFICATIONS.  
2.  
3.  
4.  
5.  
6.

			CONN.	DEM.
TOTAL KVA			28.0	29.0
TOTAL AMPS			34.9	34.9