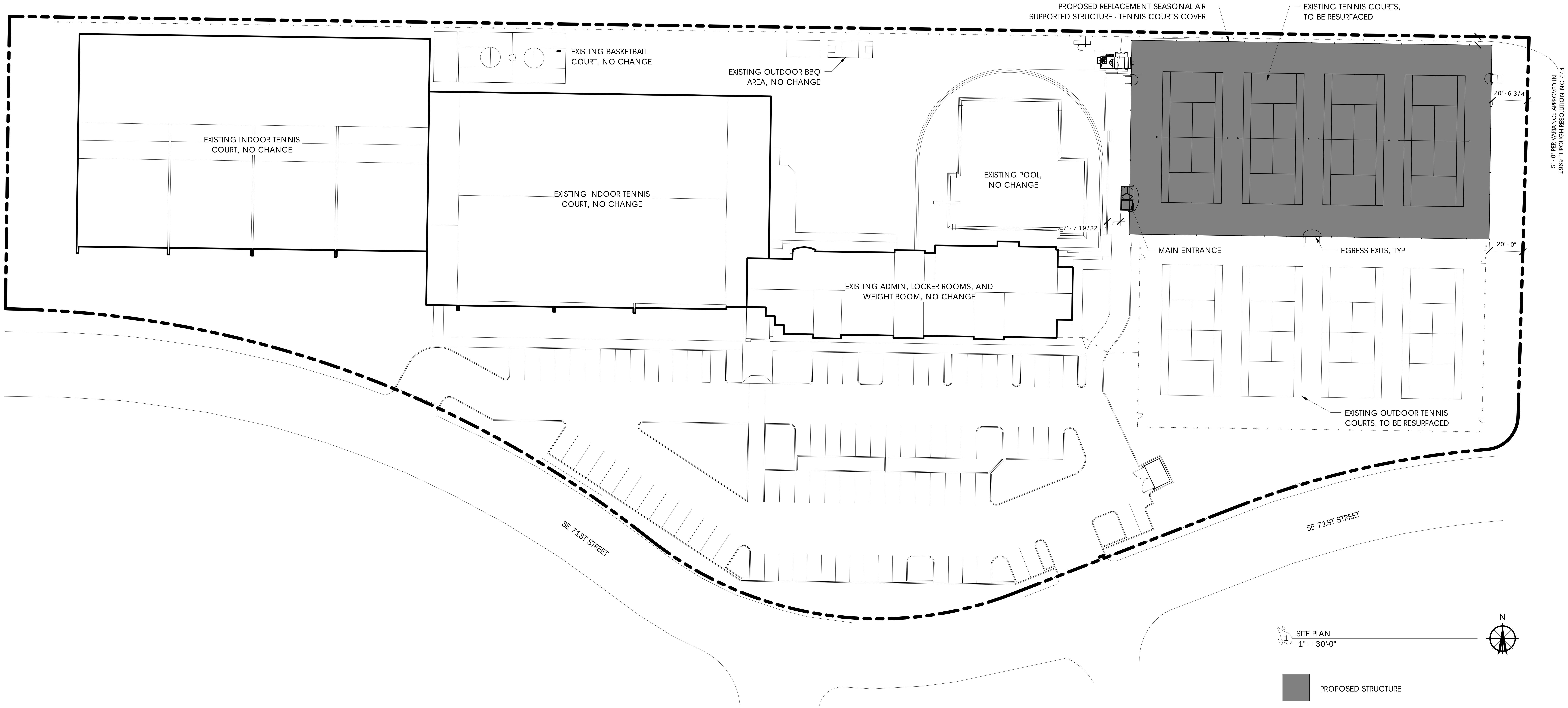


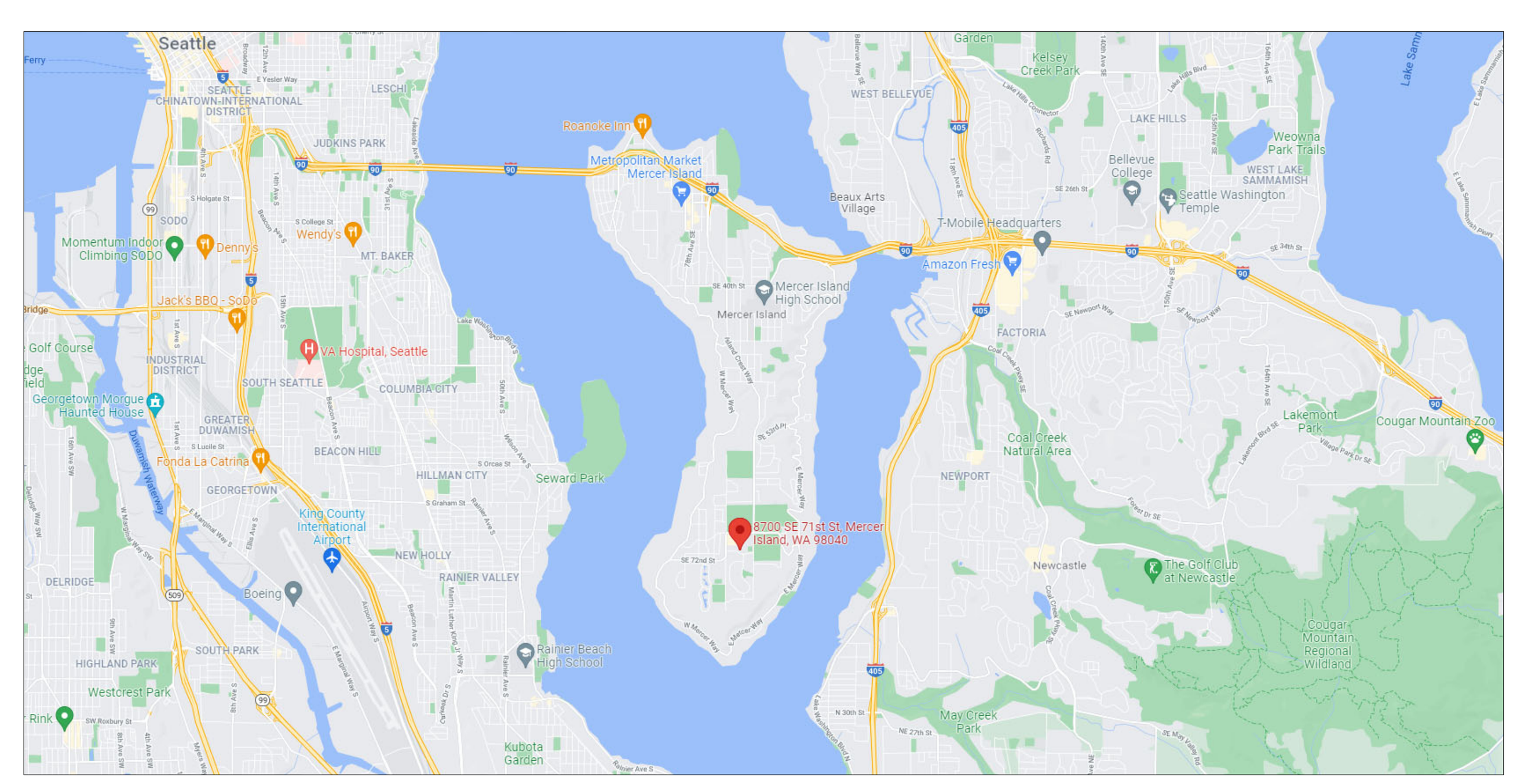
1 SITE PLAN
1" = 30'-0"

GENERAL INFORMATION

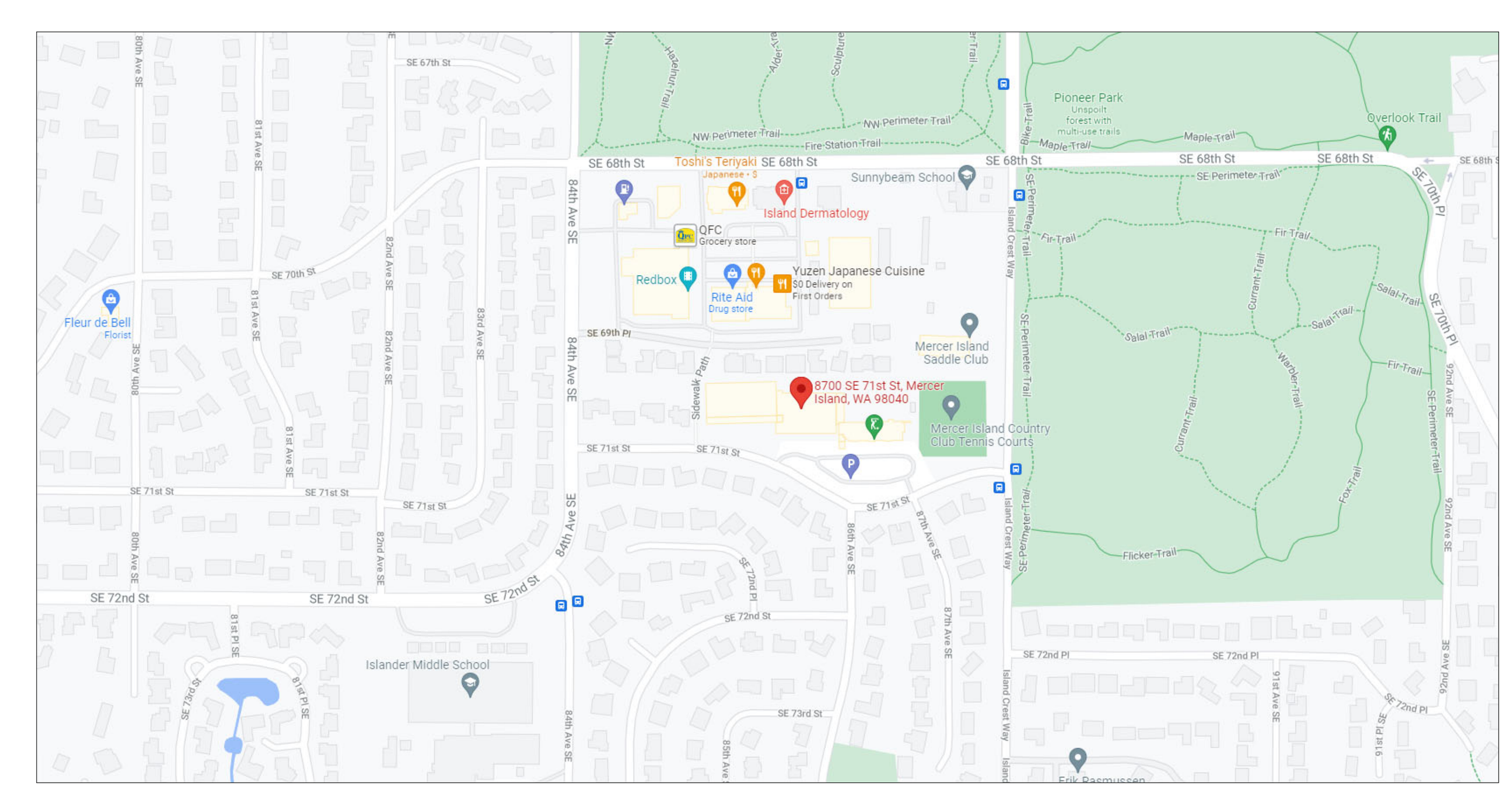
PROJECT ADDRESS	8700 SE 71ST STREET MERCER ISLAND, WA 98040
CPD PROJECT NUMBER	TBD
ASSESSOR'S PARCEL #	545110-0575
LEGAL DESCRIPTION	MERCER ISLAND CTRY CLUB ESTS # 1 LESS POR W OF LN BEG ON N LN THOF 345.66 FT E OF NW COR TH S 00-47-40 W 174 FT TO S LN OF SD TR A & TERM SD LN PLat Block: Plat Lot: A
PROJECT DESCRIPTION	REPLACE PREVIOUSLY EXISTING SEASONAL AIR SUPPORTED STRUCTURE TO COVER 4 EXISTING RE-SURFACED TENNIS COURTS
ZONE	R9.6

PROJECT DIRECTORY

OWNER	MERCER ISLAND COUNTRY CLUB 8700 SE 71ST STREET MERCER ISLAND, WA 98040
ARCHITECT	CLINT BAILEY RAIN CITY ARCHITECTURE 206.636.1163 clint@raincityarchitecture.com
GENERAL CONTRACTOR	PENNON CONSTRUCTION 9750 3RD AVE NE SUITE 250 SEATTLE, WA 98115



VICINITY PLAN



LOCATION PLAN

NOT FOR CONSTRUCTION FOR REFERENCE ONLY

MICC- TENNIS COURT SHELTER

8700 SE 71ST ST, MERCER ISLAND, WA 98040

COVERSHEET

REVISIONS

A000

SCHEMATIC DESIGN

2/7/2022
5:18:00 PM

As indicated

RAIN CITY ARCHITECTURE

ARIZON™
BUILDING SYSTEMS
11880 Dorsett Rd.
St. Louis, MO, USA 63043
Tel: (314) 739-0037
www.arizonbuildingsystems.com

MERCER ISLAND COUNTRY CLUB

4-COURT TENNIS DOME

VICINITY MAP

CUSTOMER INFORMATION

BUYER:
DAN NORDALE
MERCER ISLAND CC
8700 SE 71st STREET
MERCER ISLAND, WA 98040
TEL: (206) 395-3687

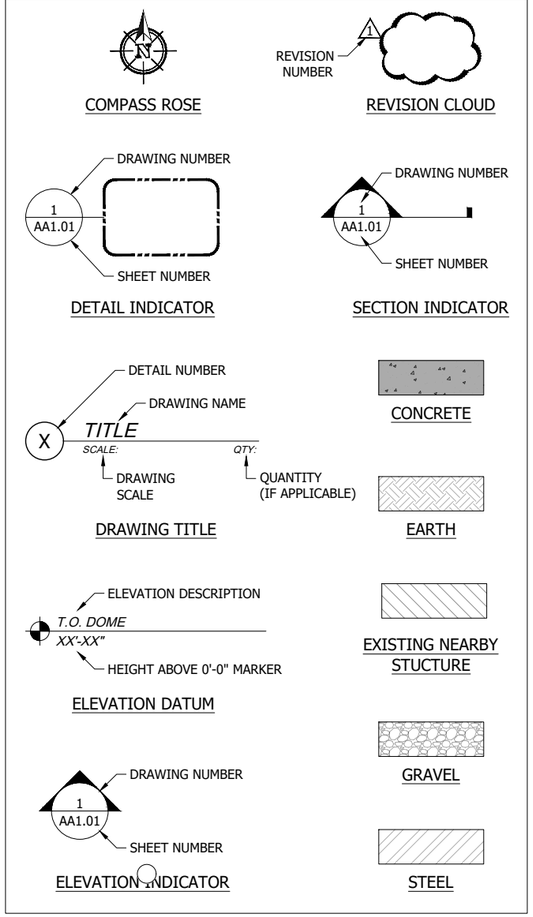
JOBSITE:
8700 SE 71st STREET
MERCER ISLAND, WA 98040

ENGINEER

MISSOURI
CASE Engineering Inc.
796 Merus Court
St. Louis, MO 63026
T 636.349.1600
F 636.349.1730
CERTIFICATE OF AUTHORITY NO. 4002

GENERAL NOTES:
1. REFERENCE STANDARDS: UNLESS OTHERWISE NOTED, ALL STANDARDS SHALL BE CURRENT EDITION, WITH LATEST ADDENDA IF APPLICABLE.
2. READ THESE DRAWINGS IN CONJUNCTION WITH ALL RELATED CONTRACT DOCUMENTS AND ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, MEMBER SIZES AND FIELD CONDITIONS PRIOR TO ANY FABRICATION, CONSTRUCTION OR INSTALLATION AND NOTIFY ENGINEER IF CONDITIONS, MATERIALS, SIZES AND DIMENSIONS ARE DIFFERENT FROM THOSE SHOWN.
4. DETAILS AND CONDITIONS NOT SPECIFICALLY SHOWN SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAILS SHOWN FOR SIMILAR CONDITIONS AND MATERIAL.
5. DRAWINGS ARE NOT TO BE SCALED.
6. BY ACCEPTING THESE DOCUMENTS FOR CONSTRUCTION, THE OWNER HEREBY ACKNOWLEDGES THE FOLLOWING:
   a. THE OWNER HAS READ THE OWNER'S MANUAL FOR OPERATION AND MAINTENANCE OF THE AIR STRUCTURE.
   b. THE OWNER AGREES TO TRAIN ALL EMPLOYEES WHO WILL BE IN CHARGE OF THE AIR STRUCTURE IN THE CORRECT CARE OF THE DOME. THE TRAINING WILL SPECIFICALLY EMPHASIZE ADJUSTING THE INTERNAL PRESSURES FOR WEATHER EVENTS
   c. THE OWNER SHALL RECORD ALL CHANGES IN INTERNAL AIR PRESSURE SETTINGS AT THE SITE AND SHALL TRAIN ALL EMPLOYEES TO ALSO RECORD ALL CHANGES IN INTERNAL AIR PRESSURE SETTINGS.
7. CODE STUDY AND COMPLIANCE WITH LIFE SAFETY ISSUES (INCLUDING BUT NOT LIMITED TO USE OF BUILDING, OCCUPANT LOAD, TRAVEL DISTANCE, INGRESS, EGRESS, FIRE RATING/SMOKE CONTROL REQUIREMENTS, ETC.) ARE THE RESPONSIBILITY OF THE OWNER.

GRAPHIC SYMBOLS



ABBREVIATIONS

AB	ANCHOR BOLT	MTL	METAL
AC	AIR CONDITIONING	NIC	NOT IN CONTRACT
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
AHJ	AUTHORITY HAVING JURISDICTION	OC	ON CENTER
		OD	OUTSIDE DIAMETER
AHU	AIR HANDLING UNIT	QTY	QUANTITY
AL or A/L	ANCHOR LINE	RAD	RADIUS
ALT	ALTERNATE	REINF	REINFORCED (ING)
ALUM	ALUMINUM	REQ'D	REQUIRED
ARCH	ARCHITECT-URAL	RO	ROUGH OPENING
ARU	AIR ROTATION UNIT	SECT'L	SECTIONALIZING
B.O.	BOTTOM OF	SF	SQUARE FEET
C/C	CENTER TO CENTER	SPECS	SPECIFICATIONS
CL or ℄	CENTER LINE	SS	STAINLESS STEEL
CLR	CLEAR	STRUCT	STRUCTURAL
CONC	CONCRETE	STL	STEEL
CONTR	CONTRACTOR	SUB	SUBCONTRACTOR
DIA or Ø	DIAMETER	T.O.	TOP OF
DIM	DIMENSION	TYP	TYPICAL
DWGS	DRAWINGS	UNO	UNLESS NOTED OTHERWISE
EE	EMERGENCY EXIT		
ELEC	ELECTRIC-AL	VAL	VEHICLE AIRLOCK
EQ	EQUAL	VIF	VERIFY IN FIELD
EXIST	EXISTING	W/	WITH
EXT	EXTERIOR	W/O	WITHOUT
FFE	FINISHED FLOOR ELEVATION		
FOC	FACE OF CONCRETE		
FR	FIRE RATED		
FTG	FOOTING		
GA	GAUGE		
GALV	GALVANIZED		
HC	HANDICAPPED		
HR	HOUR		
HT	HEIGHT		
HVAC	HEATING, VENTING, AIR CONDITIONING		
INSUL	INSULATION		
INT	INTERIOR		
JB	JUNCTION BOX		
MECH	MECHANICAL		
MFR	MANUFACTURER		

DRAWING INDEX

SHEET	SHEET DESCRIPTION	REV
AA1.00	RESPONSIBILITY MATRIX	0
AA1.01	FLOOR PLAN	0
AA1.02	FABRIC SECTIONS PLAN	0
AA2.01	EXTERIOR DOME ELEVATIONS	0
AA2.02	EXTERIOR DOME ELEVATIONS	0
AA3.01	DOME SECTIONS	0
AA4.01	DOME PROFILE HEIGHTS	0
AD1.01	MAIN ENTRY DOOR DETAILS	0
AD1.02	DOUBLE EMERGENCY EXIT DOOR DETAILS	0
AD1.03	EXIT DOOR WITH DIAGONAL BRACES DOOR DETAILS	0
AD1.04	EXIT DOOR WITH VERTICAL SUPPORTS DOOR DETAILS	0
AE1.01	LIGHTING AND WIRING PLAN	0
AE2.01	LIGHT FIXTURE HANGING & WIRING DETAILS	0
AE2.02	LIGHT FIXTURE HANGING & WIRING DETAILS	0
AM1.01	ENLARGED MECHANICAL PAD PLAN	0
AM2.01	ENLARGED MECHANICAL PAD ELEVATION	0
AN1.01	FABRIC CURTAIN AND WEDGE NETTING PLAN VIEW	1
AN2.01	FABRIC CURTAIN AND WEDGE NETTING ENLARGED DETAILS	1
AS0.01	STRUCTURAL NOTES	0
AS0.02	SPECIAL INSPECTIONS	0
AS1.01	FOUNDATION PLAN	0
AS1.02	HELICAL EARTH ANCHOR PLAN	0
AS1.03	STRUCTURAL CABLES PLAN	0
AS2.01	ENLARGED CATENARY CABLE AND EARTH ANCHOR DETAILS	0
AS2.02	ENLARGED CLAMP CHANNEL DETAILS	0
AS3.01	ENLARGED MAIN AND DBL EE DOOR SHROUD ANCHORAGE DETAILS	0
AS3.02	ENLARGED SINGLE EE DOOR SHROUD ANCHORAGE DETAILS	0
AS3.03	ENLARGED AHU SHROUD ANCHORAGE DETAILS	0

SUBMITTALS / REVISIONS

NO.	DESCRIPTION	DATE
0	ISSUED FOR SUBMITTAL	02-04-2022
1	NETTING AND CURTAIN DETAILS	02-09-2022

PROJECT NAME:
MERCER ISLAND COUNTRY CLUB - 4-COURT TENNIS

PROJECT NO.
A10396

PROJECT RESPONSIBILITY MATRIX

	Furnished by Arizon	Installed by Arizon	Furnished by Others	Installed by Others	Notes
GENERAL					
Site Survey			●		
Building Permits			●		
Soil Borings & Report			●		
Architectural Drawings			●		
Building Code and Zoning Reviews			●		
Air Structure Design Drawings	●				
Signed Sealed Structural Drawings (Air Structure)	●				
Signed Sealed Structural Drawings (Grade Beam)	●				
Signed Sealed Structural Drawings (Door Pads)	●				
Signed Sealed Structural Drawings (Inflation Equipment Pads)	●				
Signed Sealed Structural Drawings (All Other Items)			●		
Freight Scheduling	●				
Pallets, Crates, Skids, Packing Materials	●				
Freight Costs	●				
Unloading Goods at Job Site			●		
Site Security and Inventory of Delivered Goods			●		
EXISTING 8" WIDE CONCRETE WALL					
Excavation - Cutting Down to Flush with Court Surface			●	●	
ANCHORAGE (EARTH ANCHORS)					
Surface Modifications			●	●	
Earth Anchor Design / Selection of Earth Anchor			●	●	
Earth Anchor Material Including 3/4" Eyebolt on Top of Earth Anchor			●	●	
Earth Anchor Installation			●	●	
Anchor Locations	●			●	
Earth Anchor Tension Test at Each Anchor			●	●	
Final Anchor Check			●	●	
ANCHORAGE (CLAMP CHANNEL FOR INTERIOR FLAP)					
Steel Clamp Channel	●			●	
Steel Clamp Channel Fabrication Drawings	●				
Drop-in Anchors	●			●	
Anchor Bolts, Hex Nuts, Washers, and Set Screws	●			●	
Perimeter Gasket	●			●	
DOORS					
Concrete Door Pads			●	●	
3-Leaf Revolving Doors / Personnel Air Lock	●			●	
Emergency Exit Doors	●			●	
Clamp Channel for Fabric Attachment	●			●	1.
Door Anchors	●			●	
Control Cable Ring Shackles	●			●	
Lighted Exit Sign	●	●			1.
Exterior Door Light Fixtures	●			●	7.
Wiring within Door Frame and 3 ft Cord with L7-20P Plug	●	●			1.
All Wire Terminations for Door Lights			●	●	7.
Power Supply Stub-Up and Receptacles / Junction Boxes at Door Locations			●	●	
Keys & Locks	●				

PROJECT RESPONSIBILITY MATRIX

	Furnished by Arizon	Installed by Arizon	Furnished by Others	Installed by Others	Notes
AIR HANDLING UNIT - HVAC EQUIPMENT					
Air Handling Unit (AHU)	●			●	
Concrete Equipment Pad			●	●	
Electrical Wiring Between Section Splits			●	●	3.
Electrical Conduit Stub-Ups			●	●	
Electrical Conduit to Air Handling Unit			●	●	
Electrical Service to Junction Box at Equipment Pad			●	●	3.
Electrical Service from Junction Box at Equipment Pad to Air Handling Unit			●	●	3.
Electrical Contractor to Energize Unit and Test Electrical Connections.			●	●	9.
Final Termination of Electrical Service at Air Handling Unit			●	●	3.
Gas Service to Job Site			●	●	
Gas Meter			●	●	
Gas Line from Meter to Equipment Pad			●	●	
Gas Line from Equipment Pad to Air Handling Unit			●	●	
Gas Regulator (Required at Connection to Air Handling Unit)			●	●	8.
Clamp Channel for Fabric Attachment	●	●			1.
Inflation Unit Commissioning	●				
Thermostat	●	●			1.
Remote Touch Screen Controller (If Applicable)	●			●	
Wind Sensor	●			●	6.
Wire from Remote Touch Screen to Local Area Network (Signal Booster if Applicable)			●	●	
Wire for Wind Sensor and Signal Booster (If Applicable)			●	●	
Snow Sensor	●	●			1.
BACK-UP POWER GENERATION					
Back-up Generator	●			●	
Gas Service to Job Site			●	●	
Gas Meter			●	●	
Gas Line from Meter to Equipment Pad			●	●	
Gas Line from Equipment Pad to Generator			●	●	
Gas Regulator (Required at Connection to Generator)			●	●	8.
Automatic Transfer Switch (ATS)	●	●			1.
Electrical Wiring from Utility Power to Automatic Transfer Switch			●	●	3.
Electrical Wiring from Generator to Automatic Transfer Switch			●	●	3.
Electrical Wiring from Automatic Transfer Switch to Air Handling Unit	●	●			1.
Generator Start-Up & Testing			●		2.
Automatic Transfer Switch Testing			●		2.
DOME					
Fabric	●			●	
Field Joint Bars and Gasket	●			●	
Catenary Cables	●			●	
Cable Shackles	●			●	
LIGHTING					
"D" Ring Support Discs	●			●	1.
Light Fixtures	●			●	
Twist-Lock Plug on Fixture	●	●			1.
Twist-Lock Connector Body on Wire (Fixture End)	●			●	
SE00W Cord from Fixtures to Junction Box at Grade Beam	●			●	4.
Termination of Wire at Junction Box at Grade Beam			●	●	4.
Electrical Service			●	●	4.
Switching / Lighting Controls			●	●	
Emergency Egress Lighting			●	●	
Power of Emergency Egress Lighting			●	●	

PROJECT RESPONSIBILITY MATRIX

	Furnished by Arizon	Installed by Arizon	Furnished by Others	Installed by Others	Notes
INSTALLATION					
Forklift or Crane to hoist Air Handling Unit to the Mechanical Pad from the Road			●	●	
Fork Truck to Unload and Install Fabric, Doors, etc.			●	●	
Hand and Power Tools for Installation of Dome			●	●	
Installation Labor			●		
Installation Supervision (8 days)	●				
Polyethylene Sheeting			●	●	
Installation of Interior components - Lighting, Netting, etc.			●	●	
Aerial Lift for Installation of Interior Components			●	●	
Electrical Work			●	●	
Mechanical Work / Gas plumbing			●	●	
COMMISSIONING					
Customer Training	●				
Owner's Manual	●				
NETTING AND CURTAINS					
Fabric Curtain with Viewing Mesh Panel	●			●	
Wedge Netting	●			●	
Grommet Strip in Dome for Wedge Netting			●	●	1.
Fabric Curtain Cable Supports	●			●	
Fabric Curtain Tension Plate Assemblies	●			●	
MISCELLANEOUS					
Fabric Repair Kit	●				

NOTES:

1. Component is Factory Installed by the Manufacturer. Adjustments May be Required During Installation. All On-site Installation and or Adjustments are the Responsibility of Others and in Most Cases Require Qualified Professionals.
2. To be Performed by the Local Generac Dealer or a Qualified Electrician with Generac Phone Support.
3. See AM1.01 and AM2.01 for Details. All Field Wiring to be Performed by a Qualified Electrician.
4. See AE1.01 and AE2.01 for Details. All Field Wiring to be Performed by a Qualified Electrician.
5. See AM1.01 for Pressure and Volume Requirements.
6. Arizon will Provide 10 Feet of EMT Conduit and Wires for Temporary Mounting of the Wind Sensor for Initial Commissioning of the Air Handling Unit Controls. The Owner's Electrician Should Relocate the Sensor to an Appropriate Final Location Based on Prevailing Wind Conditions at the Jobsite. Installation Must be in Strict Accordance with the OEM's Installation Instructions.
7. See AD1.01 and AD1.02 for details. All Field Wiring to be Performed by a Qualified Electrician.
8. See AM1.01 for Natural Gas Volume and Pressure Requirements.
9. Upon Energizing the Unit, Electrical Contractor will Check Circulation Fan for Proper Rotation. Backwards Rotation of Circulation Fan Indicates Incorrect Polarity of the Incoming 3-Phase Service Connection.
10. Special Inspections as stated on sheet AS0.02 is the responsibility of the Owner/Contractor.

NOT FOR CONSTRUCTION

ARIZON™
BUILDING SYSTEMS
11880 Dorsett Rd.
St. Louis, MO, USA 63043
Tel: (314) 739-0037
www.arizonbuildingsystems.com

CUSTOMER (BUYER):
Mercer Island Country Club
Dan Nordale
8700 SE 71st Street
Mercer Island, WA 98040
Tel: (206) 295-3687

JOB SITE ADDRESS:
8700 SE 71st Street
Mercer Island, WA 98040

ENGINEER:
MISSOURI
CASE Engineering Inc.
796 Merret Court
St. Louis, MO 63026
T 636.349.1600
F 636.349.1730
CERTIFICATE OF AUTHORITY NO. 4002

1	UPDATED FROM SITE SURVEY AND NETTING REVISIONS	C JORDAN 02-18-2022
0	ISSUED FOR SUBMITTAL	C JORDAN 02-04-2022

SUBMITTALS / REVISIONS

PROJECT NO:
A10396

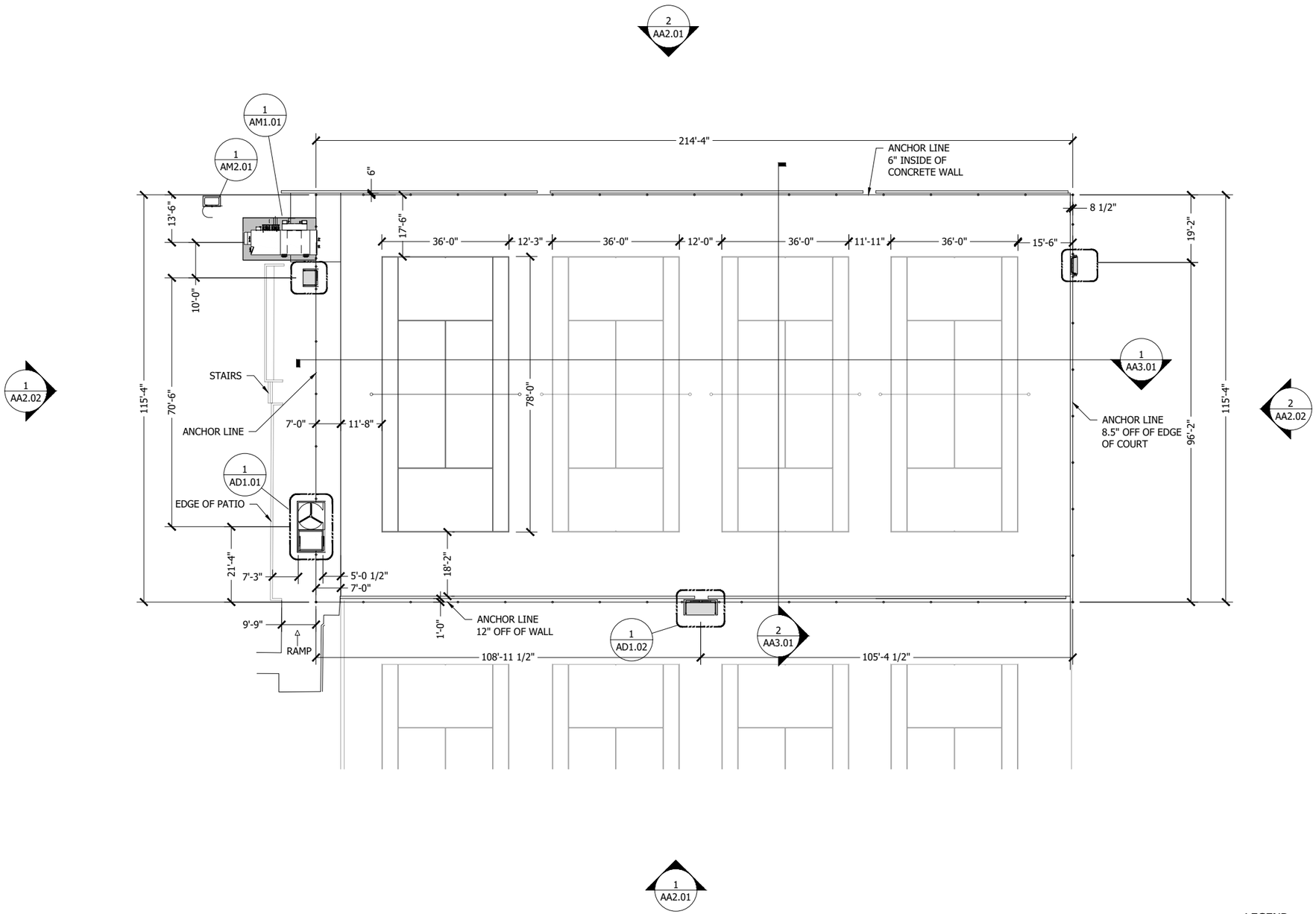
PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
AS NOTED

0

DRAWING TITLE:
RESPONSIBILITY MATRIX

SHEET:
AA1.00



LEGEND

CONCRETE

GENERAL NOTES:

1. ALL DIMENSIONS ARE TAKEN TO ANCHOR LINE UNLESS NOTED OTHERWISE.
2. CODE STUDY AND COMPLIANCE WITH LIFE SAFETY ISSUES (INCLUDING BUT NOT LIMITED TO USE OF BUILDING, OCCUPANT LOAD, TRAVEL DISTANCE, INGRESS, EGRESS, FIRE RATING/SMOKE CONTROL REQUIREMENTS, ETC.) ARE THE RESPONSIBILITY OF THE OWNER.

1 *DOME FLOOR PLAN*

SCALE: 1/16" = 1'-0"

NOT FOR CONSTRUCTION

(NORTH)

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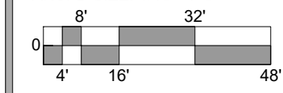
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

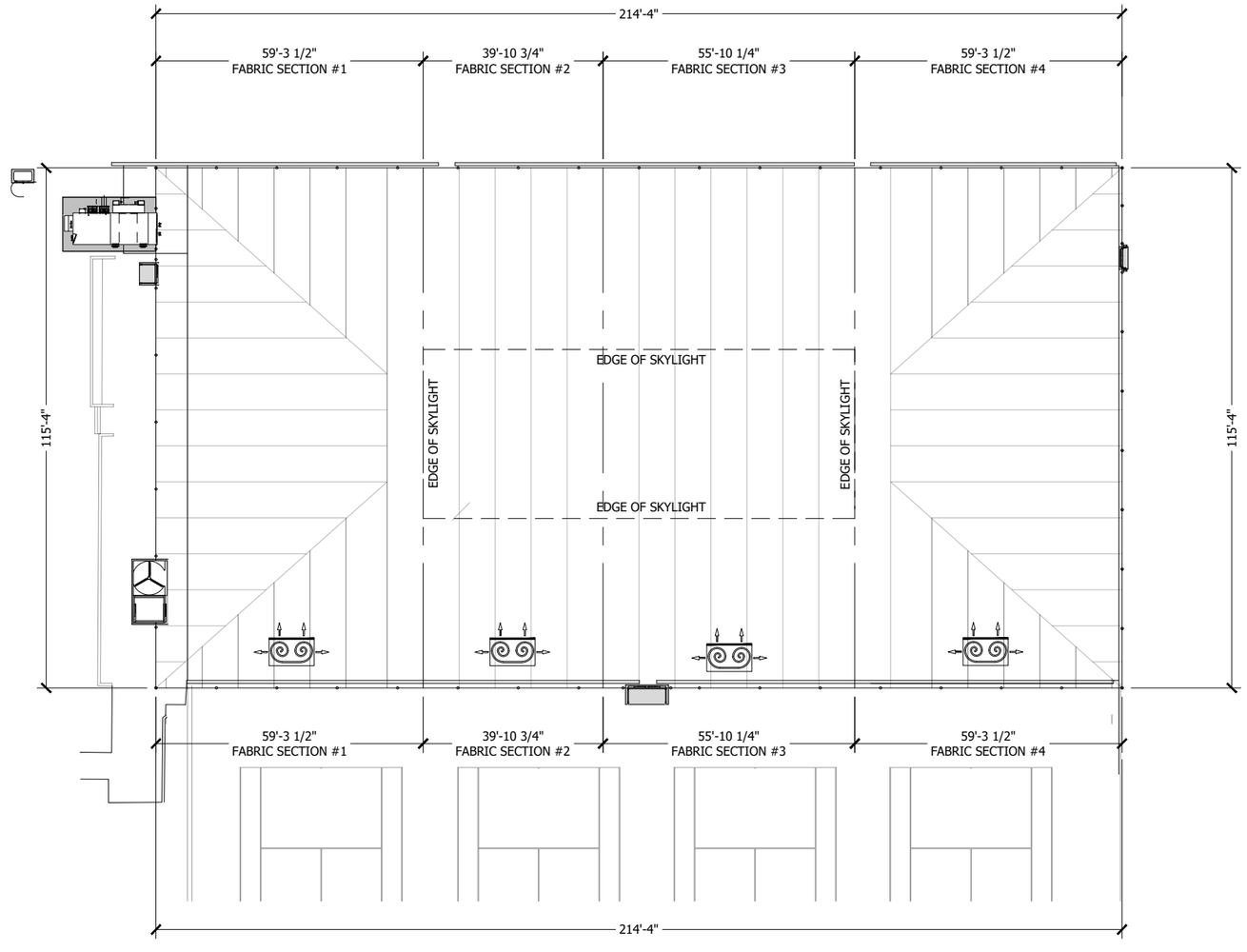
SCALE:
ANSI-B SIZE: 1/32"=1'-0"
ANSI-D SIZE: 1/16"=1'-0"



DRAWING TITLE:
FLOOR PLAN

SHEET:
AA1.01

(NORTH)



LEGEND

- EDGE OF SKYLIGHT
- FIELD JOINT (TYP.) AKA "SECTIONALIZING" (SEE 02/AS1.00)
- FABRIC SECTION PALLET
- CONCRETE

GENERAL NOTES:
1. ALL DIMENSIONS ARE TAKEN TO ANCHOR LINE UNLESS NOTED OTHERWISE.
2. LOCATIONS OF FIELD JOINTS ARE APPROXIMATE AND MAY VARY WITH MANUFACTURING.

1 *FABRIC SECTION PLAN*
SCALE: 1/16" = 1'-0"

NOT FOR CONSTRUCTION

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PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
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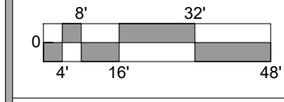
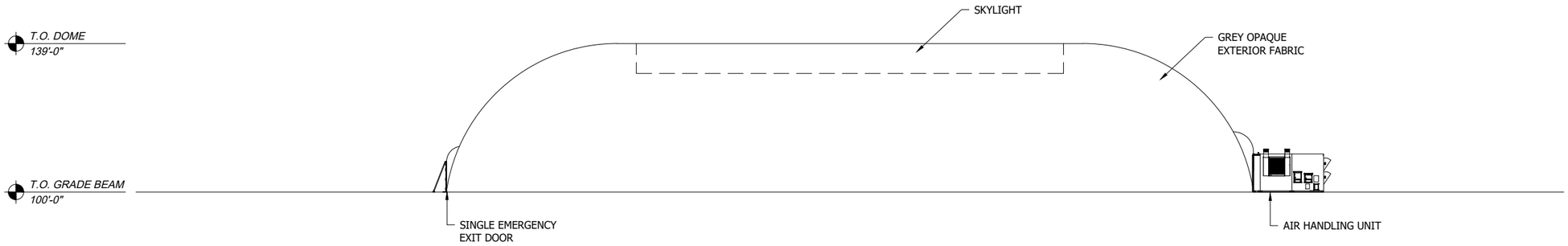
ANSI-D SIZE: 1/16"=1'-0"



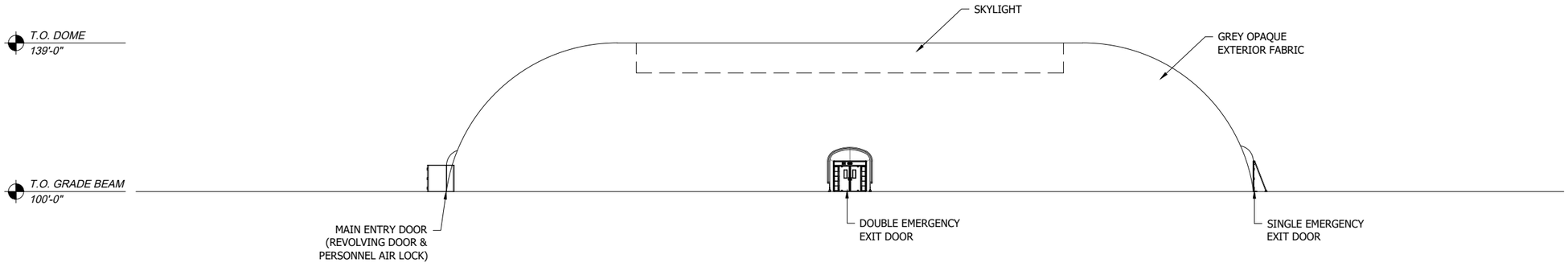
DRAWING TITLE:
FABRIC SECTION PLAN

SHEET:
AA1.02



2 *NORTH ELEVATION*

SCALE: 1/16" = 1'=0"



1 *SOUTH ELEVATION*

SCALE: 1/16" = 1'=0"

NOT FOR CONSTRUCTION

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PROJECT NO:
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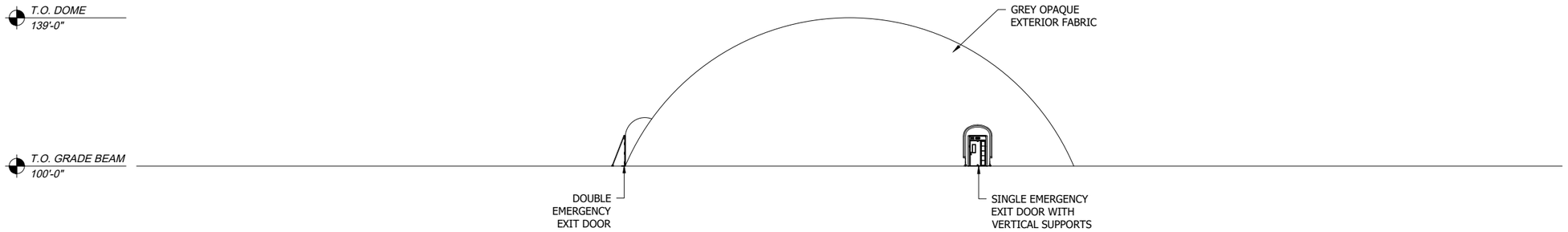
PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/32"=1'-0"
ANSI-D SIZE: 1/16"=1'-0"

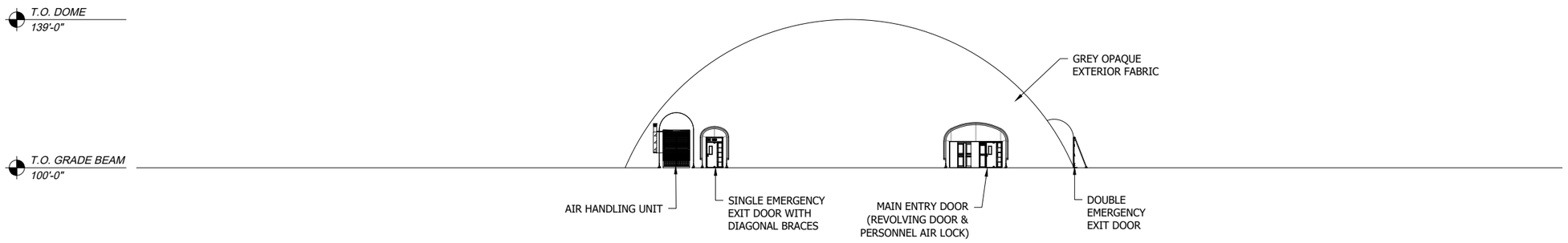
0 8' 32' 4' 16' 48'

DRAWING TITLE:
EXTERIOR DOME ELEVATIONS

SHEET:
AA2.01



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



1 *WEST ELEVATION*
SCALE: 1/16" = 1'=0"

NOT FOR CONSTRUCTION

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Dan Nordale
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Tel: (206) 295-3687

JOB SITE ADDRESS:
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Mercer Island, WA 98040

ENGINEER:
MISSOURI
CASE Engineering Inc.
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St. Louis, MO 63026
T 636.349.1600
F 636.349.1730
CERTIFICATE OF AUTHORITY NO. 4002

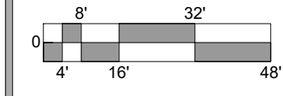
1	UPDATED FROM SITE SURVEY AND NETTING REVISIONS	C JORDAN 02-18-2022
0	ISSUED FOR SUBMITTAL	C JORDAN 02-04-2022

SUBMITTALS / REVISIONS

PROJECT NO:
A10396

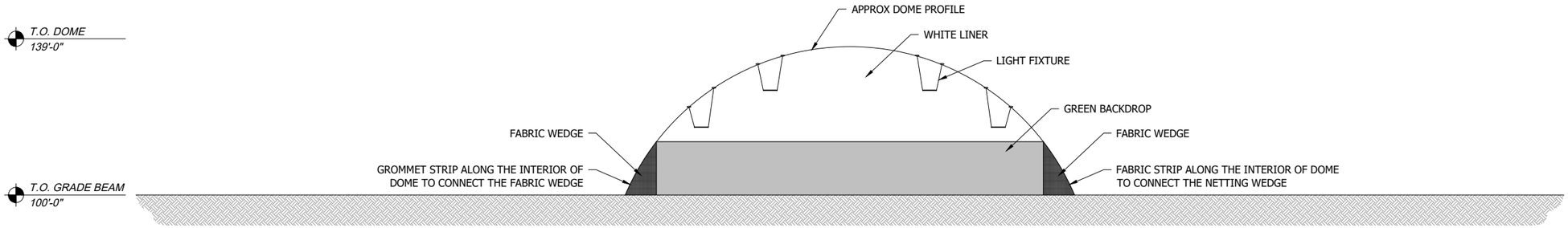
PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/32"=1'-0"
ANSI-D SIZE: 1/16"=1'-0"

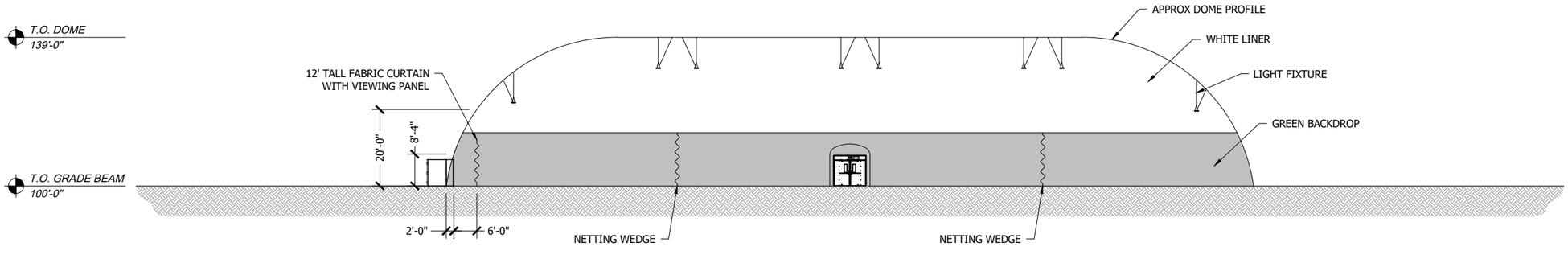


DRAWING TITLE:
EXTERIOR DOME ELEVATIONS

SHEET:
AA2.02



2 *TRANSVERSE SECTION OF DOME*
SCALE: 1/16" = 1'=0"



1 *LONGITUDINAL SECTION OF DOME*
SCALE: 1/16" = 1'=0"

GENERAL NOTES:
1. LIGHT FIXTURE, CURTAIN, AND NETTING LOCATIONS ARE APPROXIMATE AND MAY VARY WITH MANUFACTURING.

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SUBMITTALS / REVISIONS

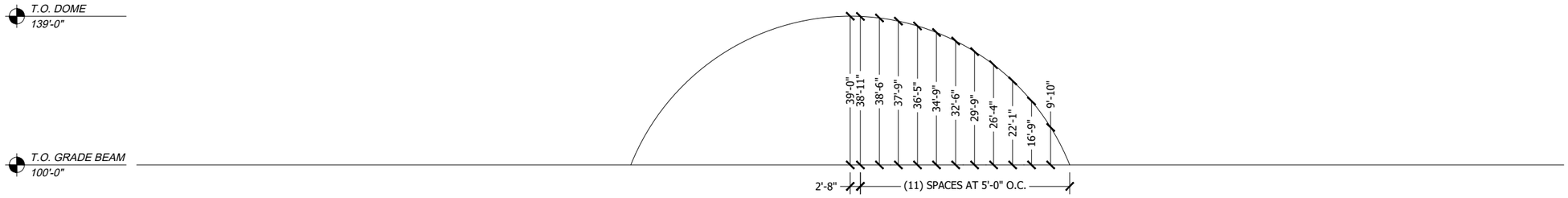
PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/32"=1'-0"
ANSI-D SIZE: 1/16"=1'-0"
0 8' 32' 4' 16' 48'

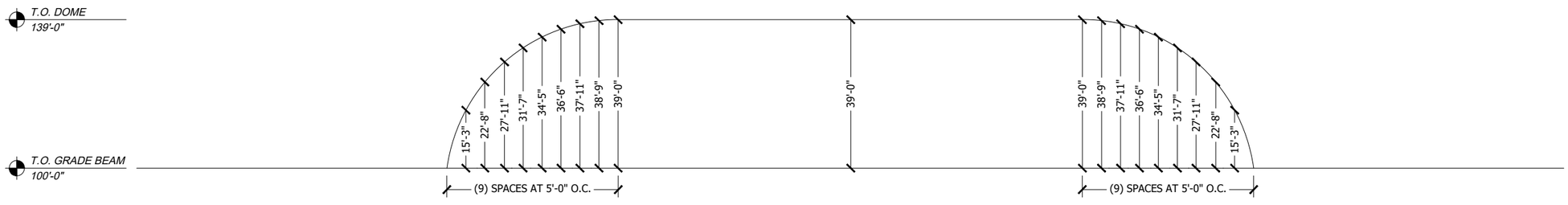
DRAWING TITLE:
DOME SECTIONS

SHEET:
AA3.01



2 *(APPROX.) DOME PROFILE - TRANSVERSE*

SCALE: 1/16" = 1'=0"



1 *(APPROX.) DOME PROFILE - LONGITUDINAL*

SCALE: 1/16" = 1'=0"

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SUBMITTALS / REVISIONS

PROJECT NO:
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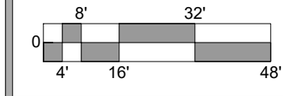
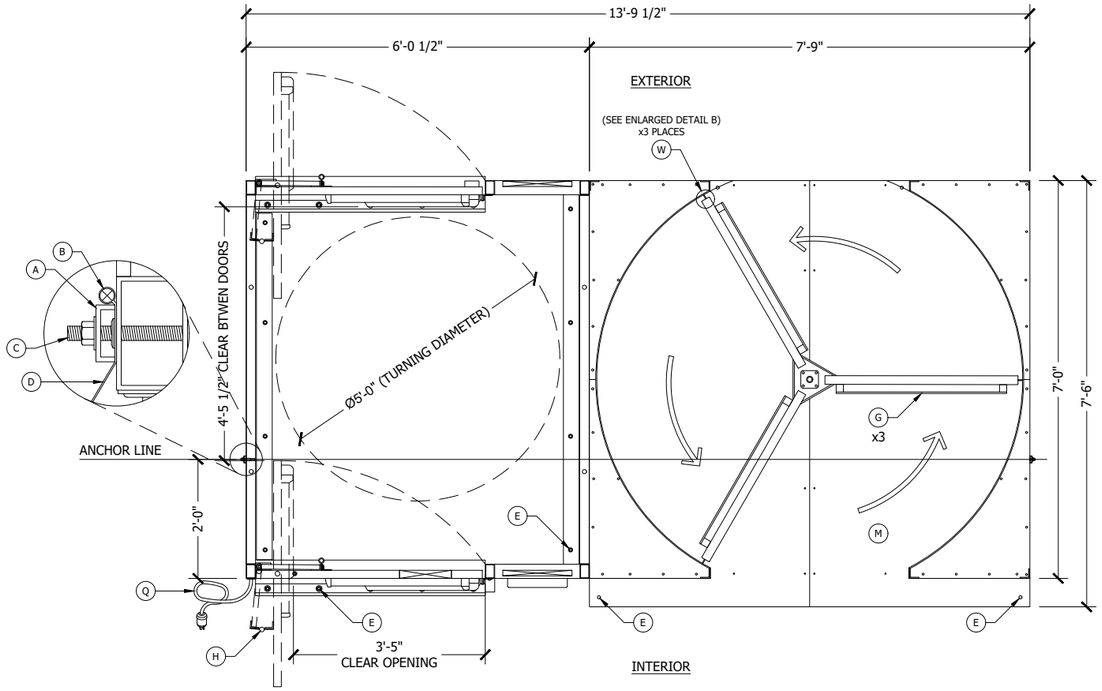
PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/32"=1'-0"
ANSI-D SIZE: 1/16"=1'-0"

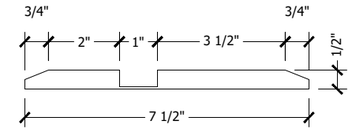


DRAWING TITLE:
DOME PROFILES (APPROX.)

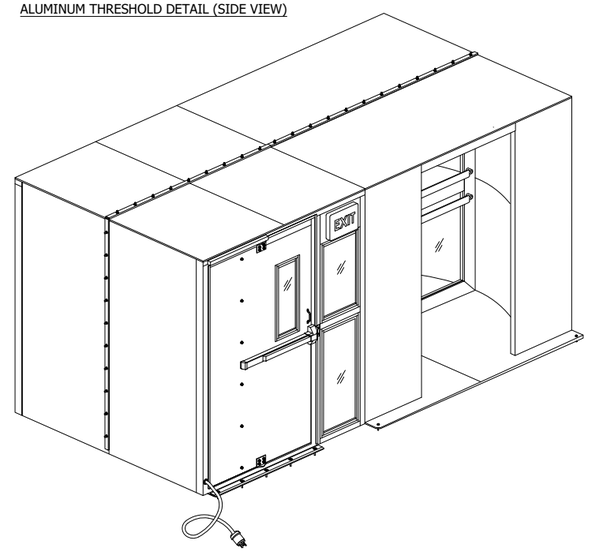
SHEET:
AA4.01



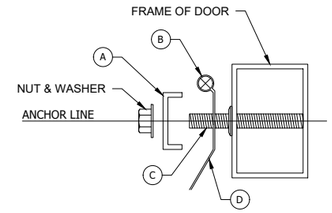
1 *PLAN VIEW*
SCALE: 3/4" = 1'-0"



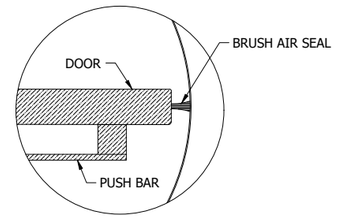
ALUMINUM THRESHOLD DETAIL (SIDE VIEW)



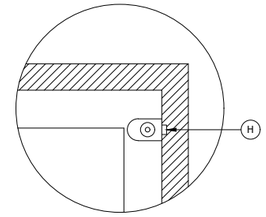
4 *ISOMETRIC VIEW*
SCALE: N.T.S



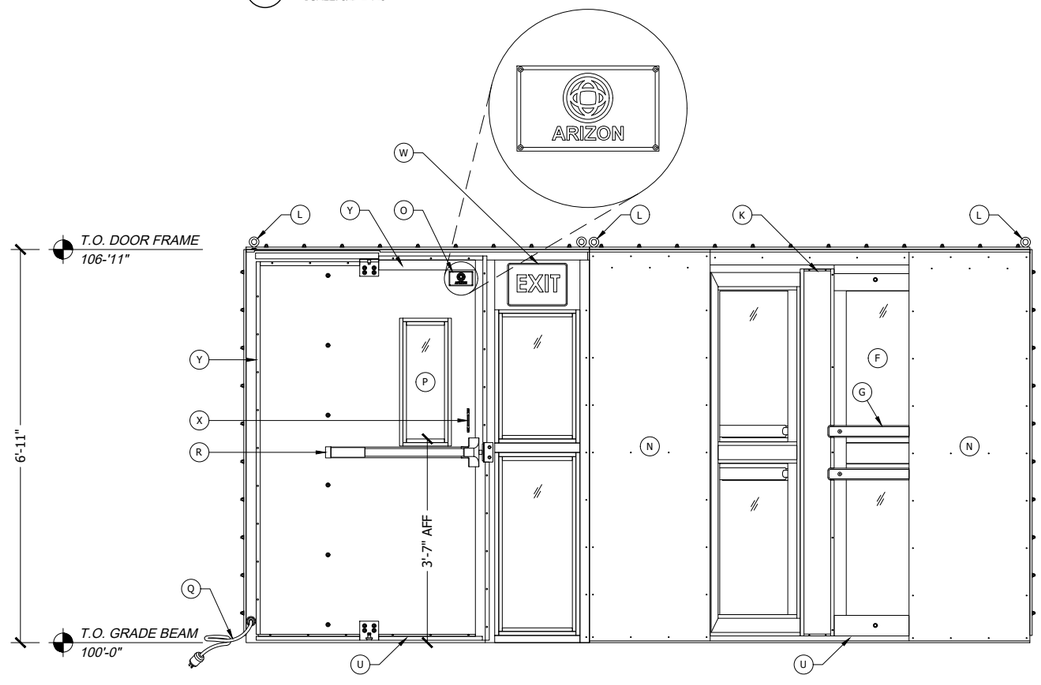
FABRIC INSTALLATION DETAIL



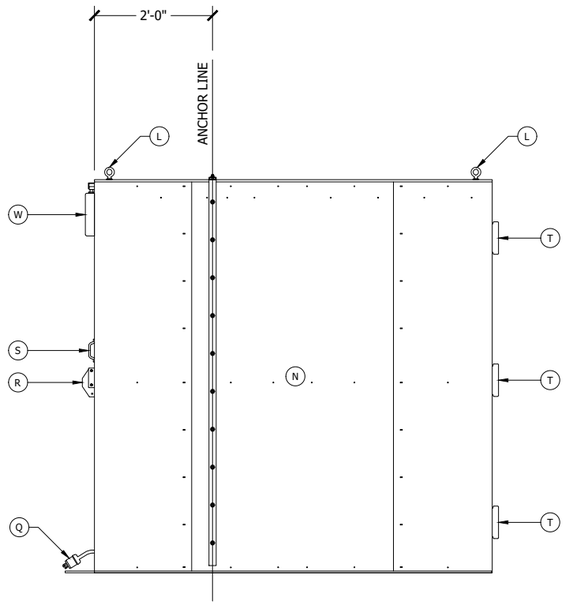
ENLARGED DETAIL B
(BRUSH AIR SEALS)



ENLARGED DETAIL A



2 *INTERIOR ELEVATION*
SCALE: 3/4" = 1'-0"



3 *SIDE ELEVATION*
SCALE: 3/4" = 1'-0"

GENERAL NOTES:

1. REVOLVING DOOR / PERSONAL AIRLOCK COMBO
2. APPROXIMATE SHIPPING WEIGHT - 2,200 LBS
3. ALUMINUM CONSTRUCTION

KEYED NOTES.

A. FABRIC CLAMP CHANNEL
B. ROPE EDGE
C. THREADED STUD WITH NUT, WASHER
D. FABRIC MEMBRANE
E. 1/2" CONCRETE ANCHORS (22 TOTAL)
   (4) ANCHORS / REVOLVING DOOR
   (18) ANCHORS / PERSONAL AIR LOCK
F. FULL LENGTH GLAZING PANEL
G. PUSH BARS (SEE ENLARGED DETAIL B)
H. DEADBOLT DOUBLE CYLINDER LOCK
   (SEE ENLARGED DETAIL A)
I. FLANGED BEARINGS W/ GREASE FITTINGS
J. LOW DRAG AIR SEALS
K. REMOVABLE SERVICE PANEL
L. REMOVABLE LIFTING EYES
M. NON-SLIP TREADPLATE FLOORING
N. CLEAR ANODIZED SKIN
O. 5" x 7" ARIZON SIGN
P. VISION PANEL
Q. EXIT SIGN POWER CORD - 3 PIGTAIL AT HINGE SIDE OF DOOR FRAME (120V POWER)
R. PANIC HARDWARE (INTERIOR SIDE)
S. LOCKABLE LEVER HANDLE (ENTRY SIDE)
T. ADJUSTABLE SPRING HINGES
U. BRUSH AIR SEALS AT FLOOR
V. ILLUMINATED EMERGENCY SIGN & LIGHTS WITH BATTERY BACKUP (PER IBC 1011 AND 1011.6.3)
W. BRUSH AIR SEALS (SEE ENLARGED DETAIL B)
X. PULL HANDLE
Y. RUBBER SEALS AT TOP AND SIDES

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SUBMITTALS / REVISIONS

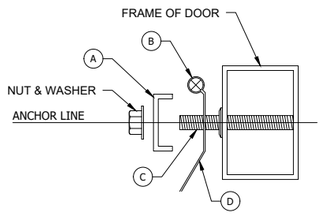
PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

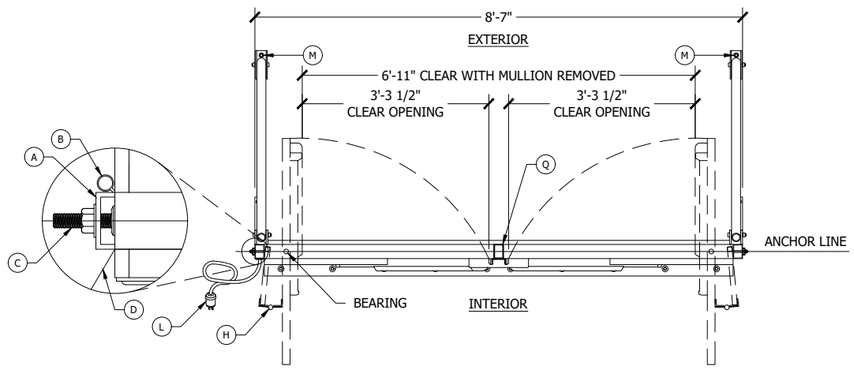
SCALE:
ANSI-B SIZE: 3/8"=1'-0"
ANSI-D SIZE: 3/4"=1'-0"
6" 2'
0
3" 1' 4'

DRAWING TITLE:
MAIN ENTRY DOOR DETAILS
(3-LEAF REVOLVING DOOR WITH PERSONNEL AIRLOCK)

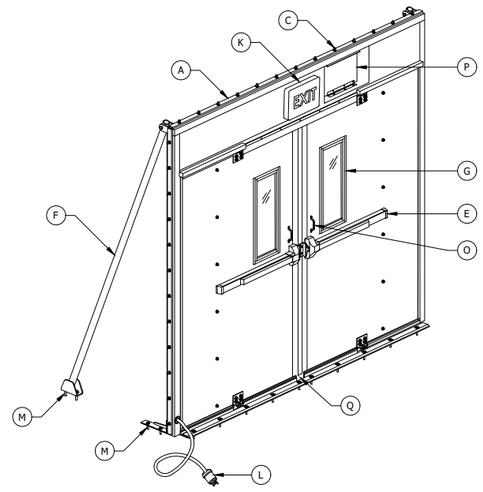
SHEET:
AD1.01



FABRIC INSTALLATION DETAIL



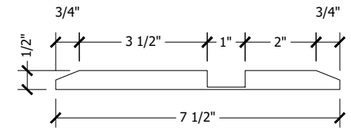
1 *PLAN VIEW*
SCALE: 3/4" = 1'-0"



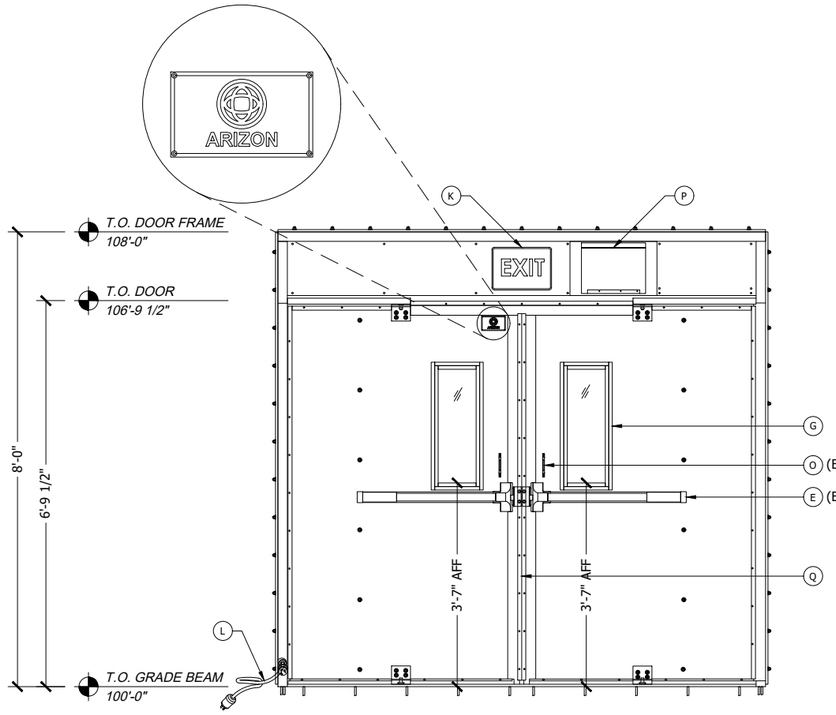
5 *ISOMETRIC VIEW*
SCALE: N.T.S.

GENERAL NOTES:
1. APPROXIMATE SHIPPING WEIGHT 250 LBS
2. ANODIZED ALUMINUM CONSTRUCTION (CLEAR)
3. MANUFACTURING OF DOORS SUBJECT TO CHANGE

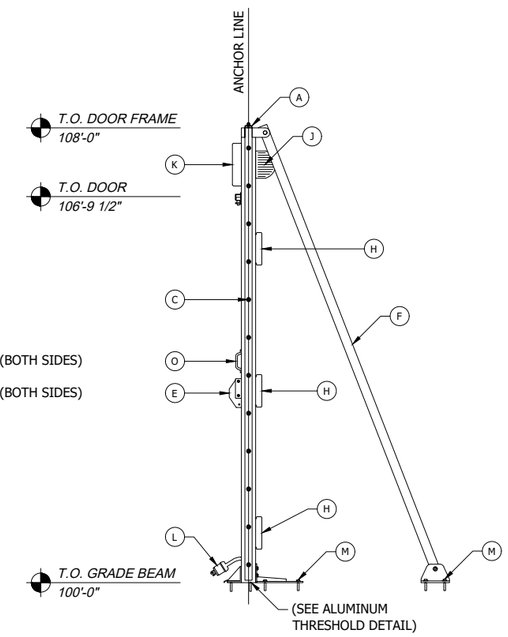
KEYED NOTES:
A. FABRIC CLAMP CHANNEL
B. ROPE EDGE
C. THREADED STUD WITH NUT, WASHER
D. FABRIC MEMBRANE
E. PANIC HARDWARE (TELL 8300 SERIES)
F. SUPPORT LEGS, 1.9" ALUMINUM PIPE
G. VISION PANEL - 2 PANES OF 1/8" THICK TEMPERED GLASS. 3/4" TOTAL THICKNESS - COMPLIANT WITH THE REQUIREMENTS OF IBC 2012 2406.4.1.
H. ADJUSTABLE SPRING HINGES
I. KEY LOCK AND PULL
J. EXTERIOR REMOTE HEAD FIXTURE (SHIPPED LOOSE FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR (MODEL WCEM-2)
K. ILLUMINATED EXIT SIGN & LIGHTS WITH BATTERY BACKUP PER IBC 1011 AND 1011.6.3
L. EXIT SIGN POWER CORD - 3 FOOT PIGTAIL AT HINGE SIDE OF DOOR FRAME (120V POWER)
M. 1/2" CONCRETE ANCHOR (18 TOTAL)
N. 3" X 5" ARIZON SIGN
O. PULL HANDLE
P. TRANSOM VENT
Q. REMOVABLE CENTER MULLION



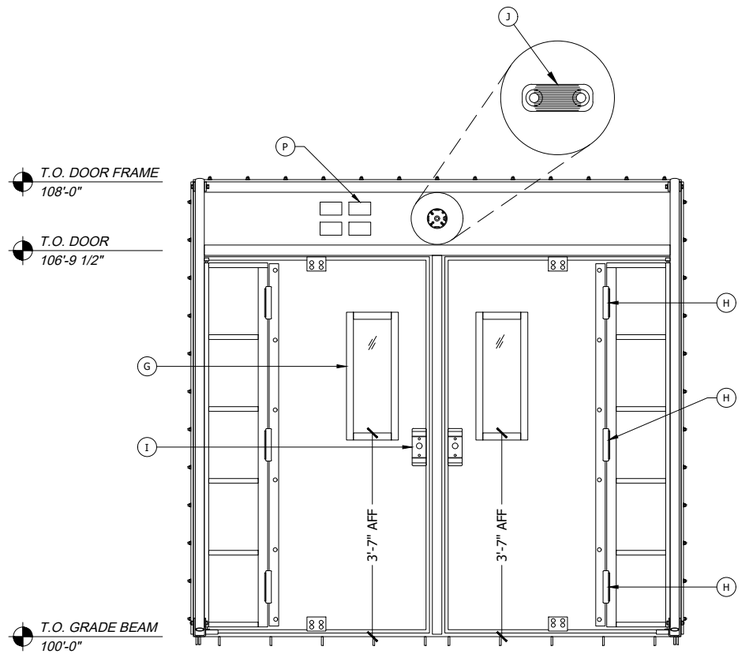
ALUMINUM THRESHOLD DETAIL (SIDE VIEW)



2 *INTERIOR ELEVATION*
SCALE: 3/4" = 1'-0"



3 *SIDE ELEVATION*
SCALE: 3/4" = 1'-0"



4 *EXTERIOR ELEVATION*
SCALE: 3/4" = 1'-0"

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SUBMITTALS / REVISIONS

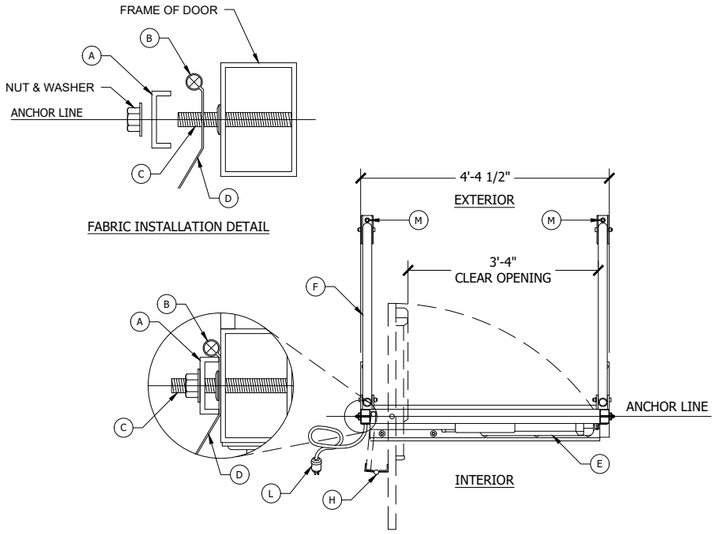
PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 3/8"=1'-0"
ANSI-D SIZE: 3/4"=1'-0"
6" 2'
0
3" 1' 4'

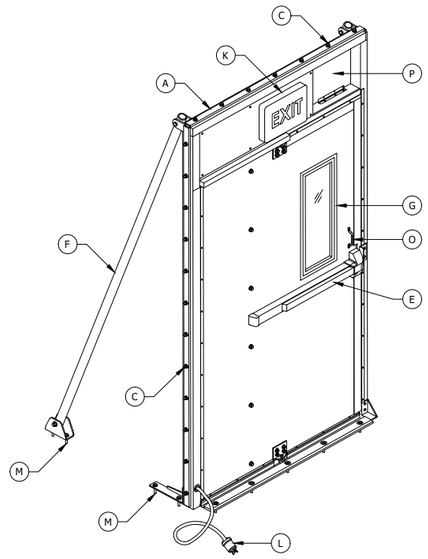
DRAWING TITLE:
DOUBLE EMERGENCY
EXIT DOOR DETAILS

SHEET:
AD1.02



FABRIC INSTALLATION DETAIL

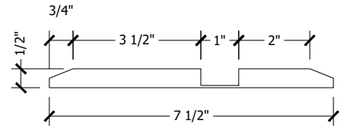
1 *PLAN VIEW*
SCALE: 3/4" = 1'-0"



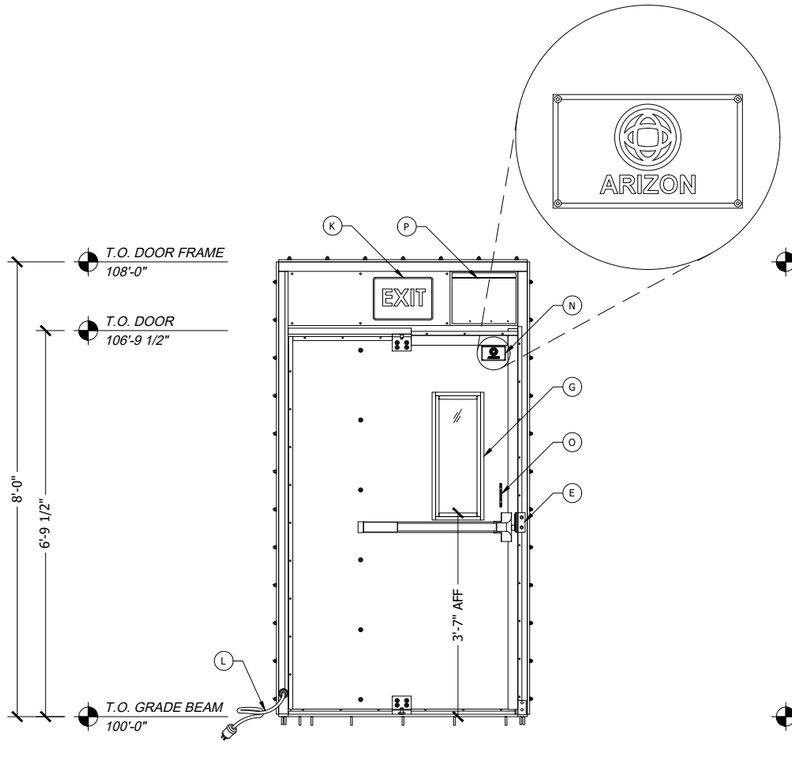
5 *ISOMETRIC VIEW*
SCALE: N.T.S.

GENERAL NOTES:
1. APPROXIMATE SHIPPING WEIGHT 250 LBS
2. ANODIZED ALUMINUM CONSTRUCTION (CLEAR)
3. MANUFACTURING OF DOORS SUBJECT TO CHANGE

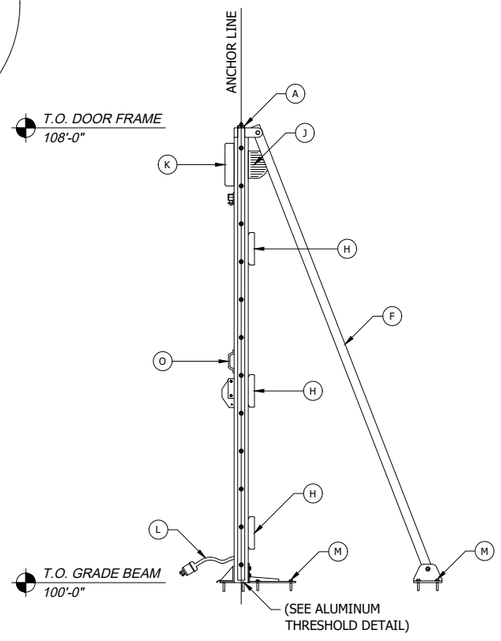
KEYED NOTES:
A. FABRIC CLAMP CHANELL
B. ROPE EDGE
C. THREADED STUD WITH NUT, WASHER
D. FABRIC MEMBRANE
E. PANIC HARDWARE
F. SUPPORT LEGS, 1.9" ALUMINUM PIPE
G. VISION PANEL
H. ADJUSTABLE SPRING HINGES
I. KEY LOCK AND PULL
J. EXTERIOR REMOTE HEAD FIXTURE (SHIPPED LOOSE FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR; MODEL WCEM-2)
K. ILLUMINATED EMERGENCY SIGN & LIGHTS WITH BATTERY BACKUP (PER IBC 1011 AND 1011.6.3)
L. EXIT SIGN POWER CORD - 3 FOOT PIGTAIL AT HINGE SIDE OF DOOR FRAME (120V POWER)
M. 1/2" CONCRETE ANCHOR (13 TOTAL)
N. 3" X 5" ARIZON SIGN
O. PULL HANDLE
P. TRANSOM VENT



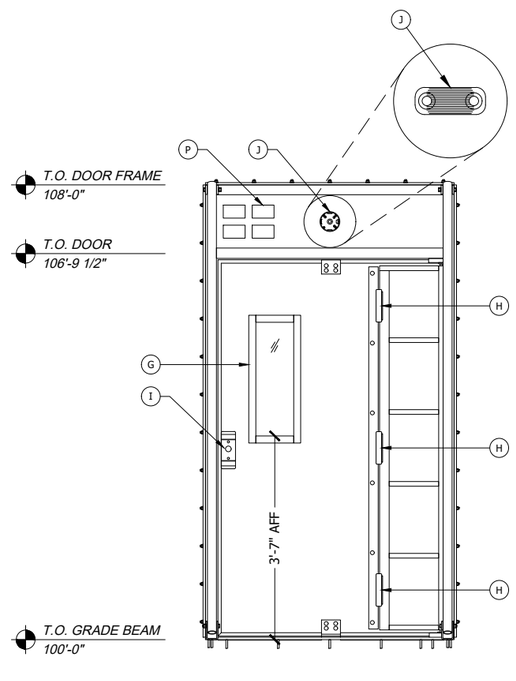
ALUMINUM THRESHOLD DETAIL (SIDE VIEW)



2 *INTERIOR ELEVATION*
SCALE: 3/4" = 1'-0"



3 *SIDE ELEVATION*
SCALE: 3/4" = 1'-0"



4 *EXTERIOR ELEVATION*
SCALE: 3/4" = 1'-0"

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SUBMITTALS / REVISIONS

PROJECT NO:
A10396

PROJECT:
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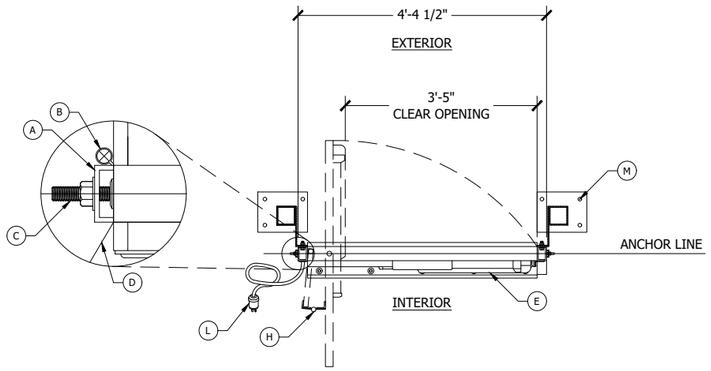
4 COURT TENNIS DOME

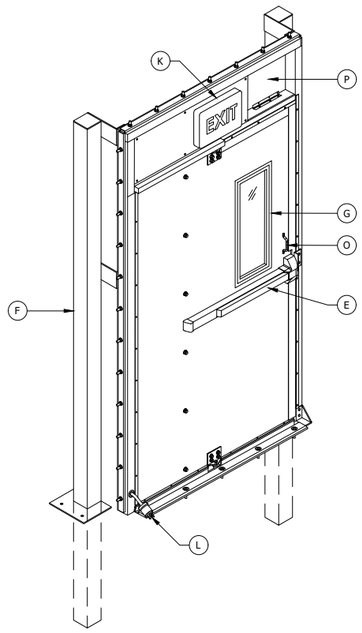
SCALE:
ANSI-B SIZE: 3/8"=1'-0"
ANSI-D SIZE: 3/4"=1'-0"
6" 2' 0 3" 1' 4'

DRAWING TITLE:
SINGLE EMERGENCY EXIT DOOR WITH DIAGONAL BRACES DOOR DETAILS

SHEET:
AD1.03



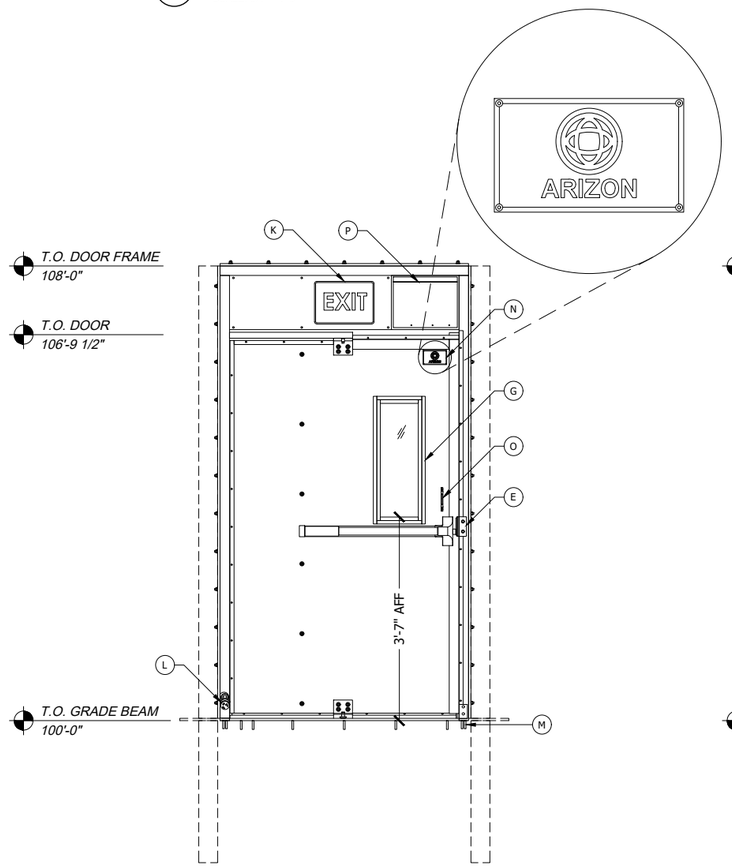
1 *PLAN VIEW*
SCALE: 3/4" = 1'-0"



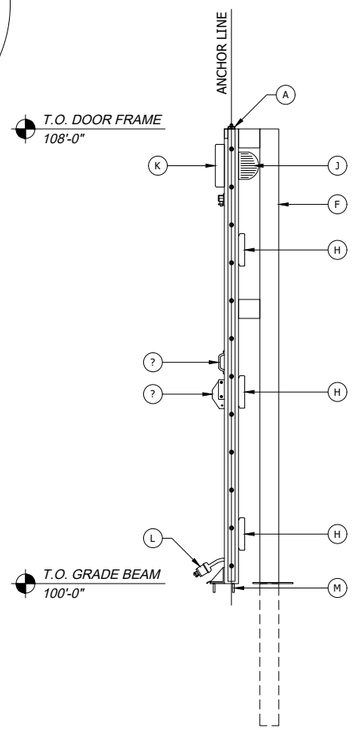
5 *ISOMETRIC VIEW*
SCALE: N.T.S.

GENERAL NOTES:
1. APPROXIMATE SHIPPING WEIGHT 250 LBS
2. ANODIZED ALUMINUM CONSTRUCTION (CLEAR)
3. DETAILS MAY VARY

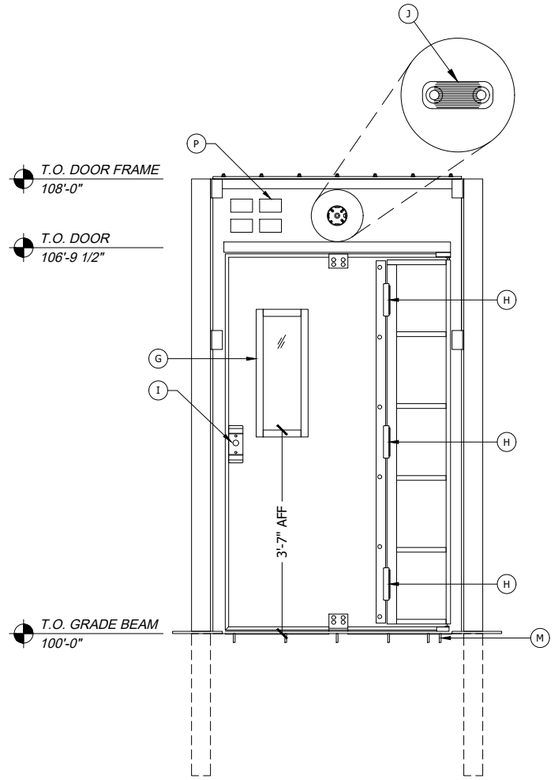
KEYED NOTES:
A. FABRIC CLAMP CHANELL
B. ROPE EDGE
C. THREADED STUD W/ NUT, WASHER
D. FABRIC MEMBRANE
E. PANIC HARDWARE
F. GALVANIZED HSS SUPPORT FRAME
G. VISION PANEL - 2 PANES OF 1/8" THICK TEMPERED GLASS. 3/4" TOTAL THICKNESS - COMPLIANT WITH THE REQUIREMENTS OF IBC 2012 2406.4.1.
H. ADJUSTABLE SPRING HINGES
I. KEY LOCK AND PULL
J. EXTERIOR REMOTE HEAD TO PROVIDE ILLUMINATION
K. ILLUMINATED EMERGENCY SIGN & LIGHTS WITH BATTERY BACKUP+
L. EXIT SIGN POWER CORD - 3 FOOT PIGTAIL AT HINGE SIDE OF DOOR FRAME (120V POWER)
M. 1/2" DROP IN ANCHORS (11 TOTAL)
N. 3" X 5" ARIZON SIGN
O. PULL HANDLE
P. TRANSOM VENT



2 *INTERIOR ELEVATION*
SCALE: 3/4" = 1'-0"



3 *SIDE ELEVATION*
SCALE: 3/4" = 1'-0"



4 *EXTERIOR ELEVATION*
SCALE: 3/4" = 1'-0"

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JOB SITE ADDRESS:
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ENGINEER:
MISSOURI
CASE Engineering Inc.
796 Meron Court, St. Louis, MO 63026
T 636.349.1600 F 636.349.1730
CERTIFICATE OF AUTHORITY NO. 4002

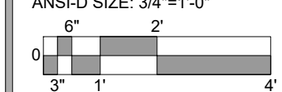
1	UPDATED FROM SITE SURVEY AND NETTING REVISIONS	C JORDAN 02-18-2022
0	ISSUED FOR SUBMITTAL	C JORDAN 02-04-2022

SUBMITTALS / REVISIONS

PROJECT NO:
A10396

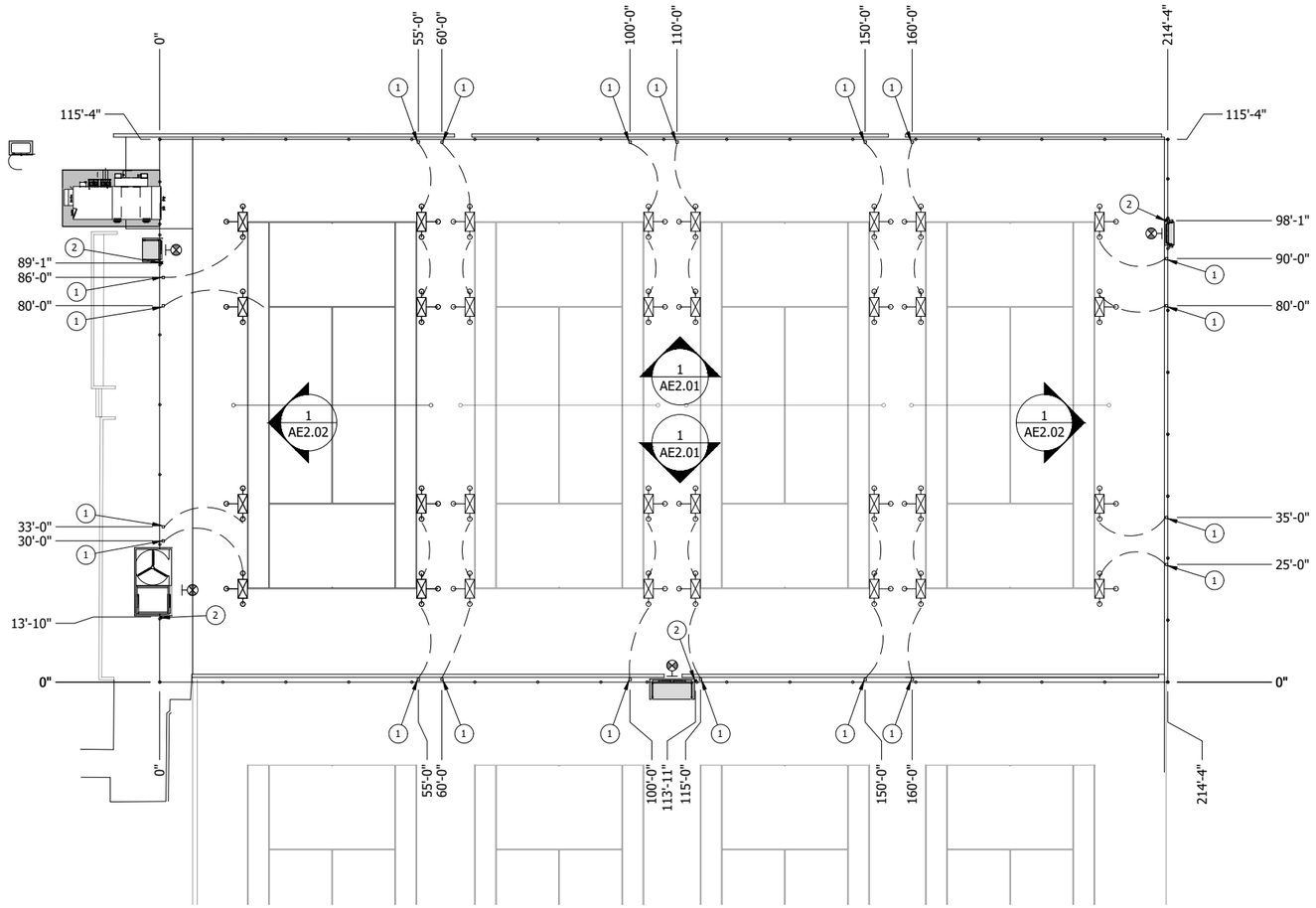
PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 3/8"=1'-0"
ANSI-D SIZE: 3/4"=1'-0"



DRAWING TITLE:
SINGLE EMERGENCY EXIT DOOR WITH VERTICAL COLUMNS DOOR DETAILS

SHEET:
AD1.04



(NORTH)

KEYED NOTES

1. 120v, 1ø, 60Hz JUNCTION BOX WITH NEMA L7-15 TWIST-LOCK RECEPTACLE FOR PRIMARY LIGHTING
2. 120v, 1ø, 60Hz JUNCTION BOX WITH NEMA L7-20 TWIST-LOCK RECEPTACLE FOR EXIT SIGN AND EXTERIOR REMOTE HEAD FIXTURE

1 *LIGHTING AND WIRING PLAN*
SCALE: 1/16" = 1'-0"

LEGEND

- DOOR EXIT SIGN (INSTALLED BY OTHERS)
- LXX — LIGHT FIXTURE (DESIGNATION NO.)
- ELECTRICAL POWER CORD
- JUNCTION BOX
- CONCRETE

DRAWINGS SHOW EQUIPMENT WHICH WILL BE FURNISHED BY ARIZON OR BY OTHERS ARE ARE NOT PART OF THE STRUCTURAL DESIGN OR ANALYSIS.

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SUBMITTALS / REVISIONS

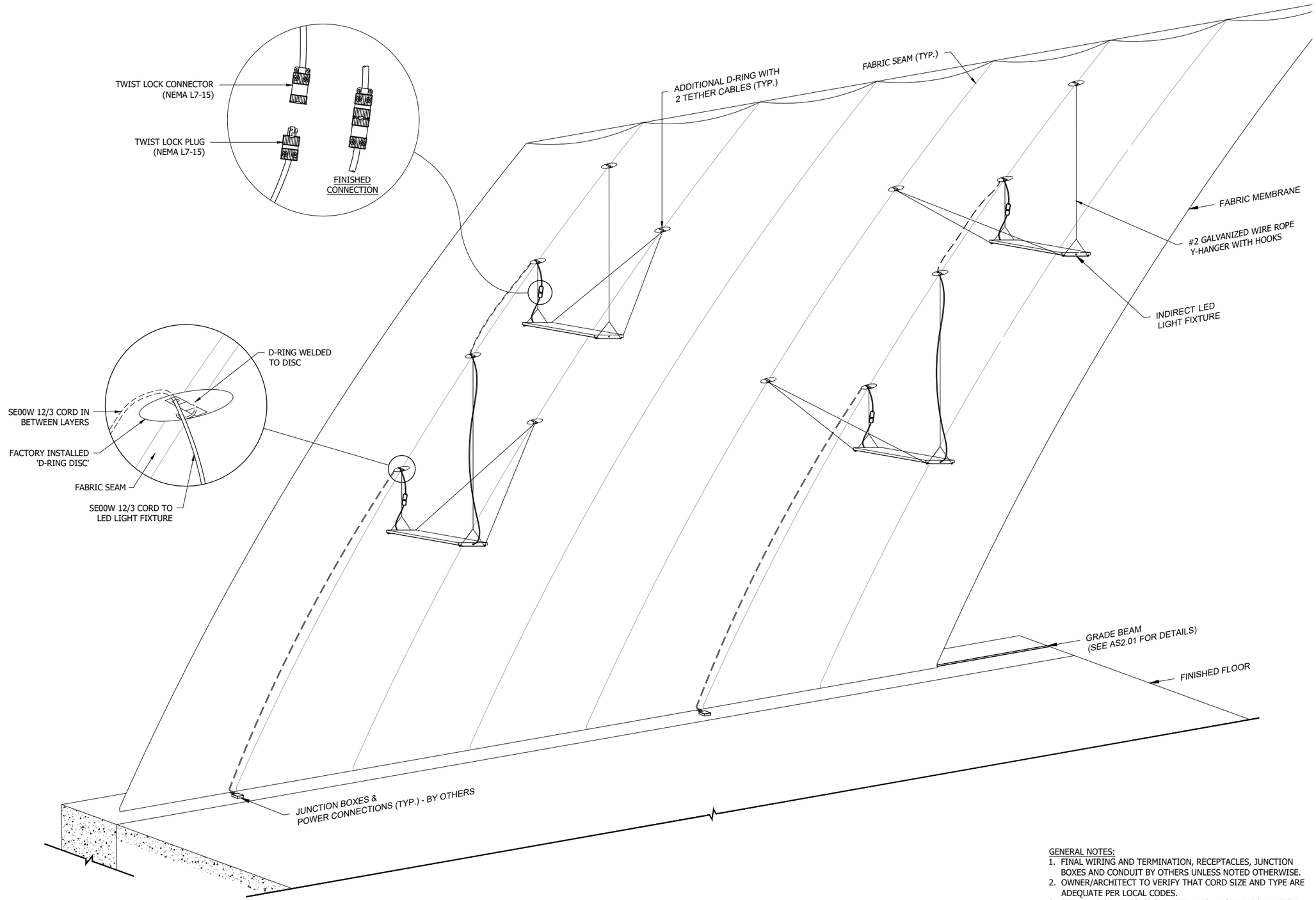
PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/32"=1'-0"
ANSI-D SIZE: 1/16"=1'-0"
8' 32'
0
4' 16' 48'

DRAWING TITLE:
LIGHTING AND WIRING PLAN

SHEET:
AE1.01



1 *HANGING LIGHT FIXTURE & POWER CONNECTION DETAIL*
SCALE: 1/2" = 1'-0"

GENERAL NOTES:
1. FINAL WIRING AND TERMINATION, RECEPTACLES, JUNCTION BOXES AND CONDUIT BY OTHERS UNLESS NOTED OTHERWISE.
2. OWNER/ARCHITECT TO VERIFY THAT CORD SIZE AND TYPE ARE ADEQUATE PER LOCAL CODES.
3. SEE TAB 6 OF ARIZON'S SUBMITTAL FOR MORE INFORMATION
4. SEE RESPONSIBILITY MATRIX AA1.00 FOR MORE INFORMATION

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SUBMITTALS / REVISIONS

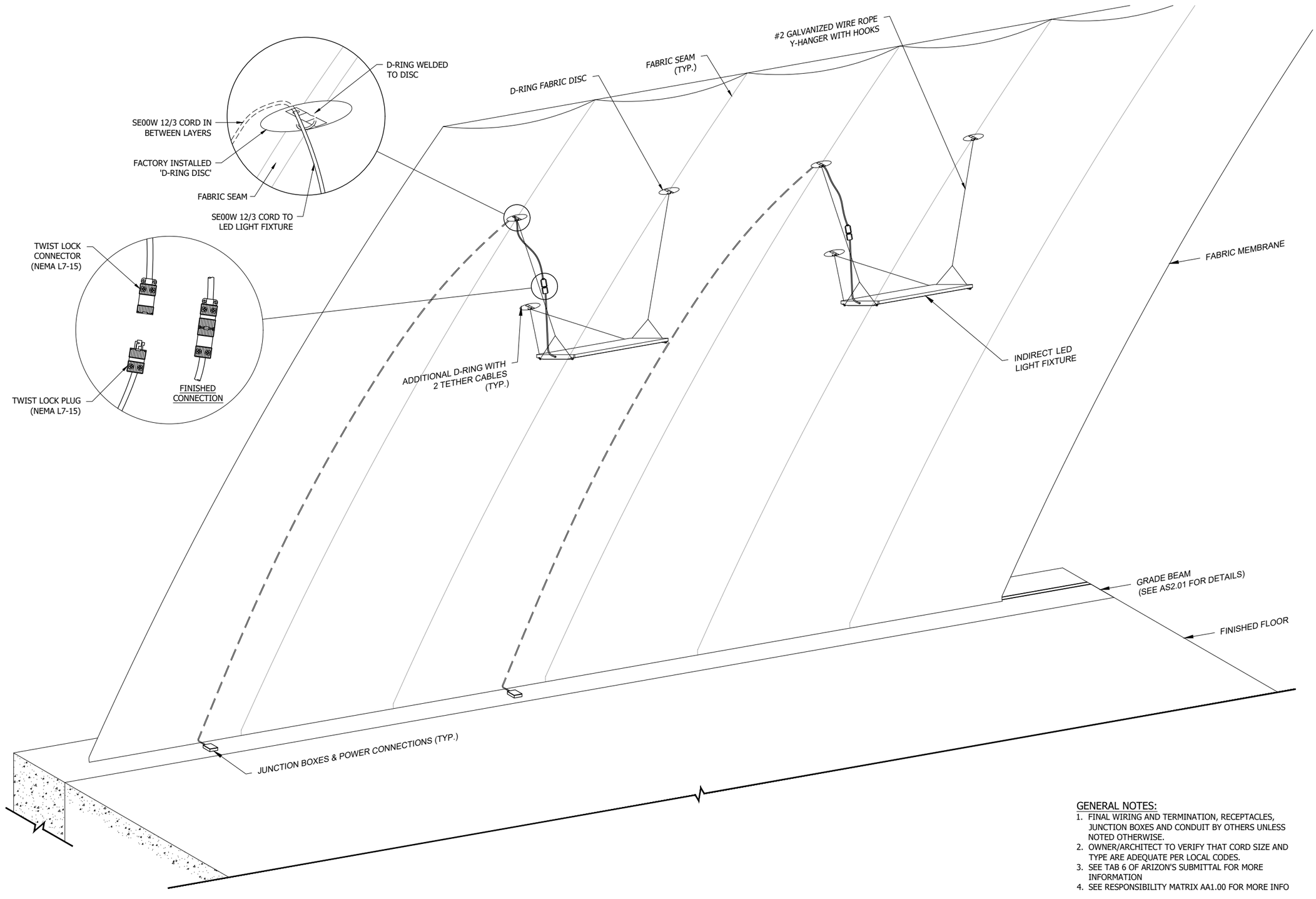
PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/4"=1'-0"
ANSI-D SIZE: 1/2"=1'-0"
1' 4'
0
6" 2' 6'

DRAWING TITLE:
LIGHT FIXTURE HANGING AND WIRING DETAILS

SHEET:
AE2.01



1 *INDIRECT LED LIGHTING HANGING AND WIRING DETAILS*
SCALE: 1/2" = 1'-0"

GENERAL NOTES:
1. FINAL WIRING AND TERMINATION, RECEPTACLES, JUNCTION BOXES AND CONDUIT BY OTHERS UNLESS NOTED OTHERWISE.
2. OWNER/ARCHITECT TO VERIFY THAT CORD SIZE AND TYPE ARE ADEQUATE PER LOCAL CODES.
3. SEE TAB 6 OF ARIZON'S SUBMITTAL FOR MORE INFORMATION
4. SEE RESPONSIBILITY MATRIX AA1.00 FOR MORE INFO

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SUBMITTALS / REVISIONS

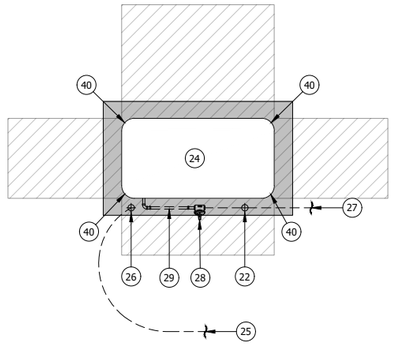
PROJECT NO:
A10396

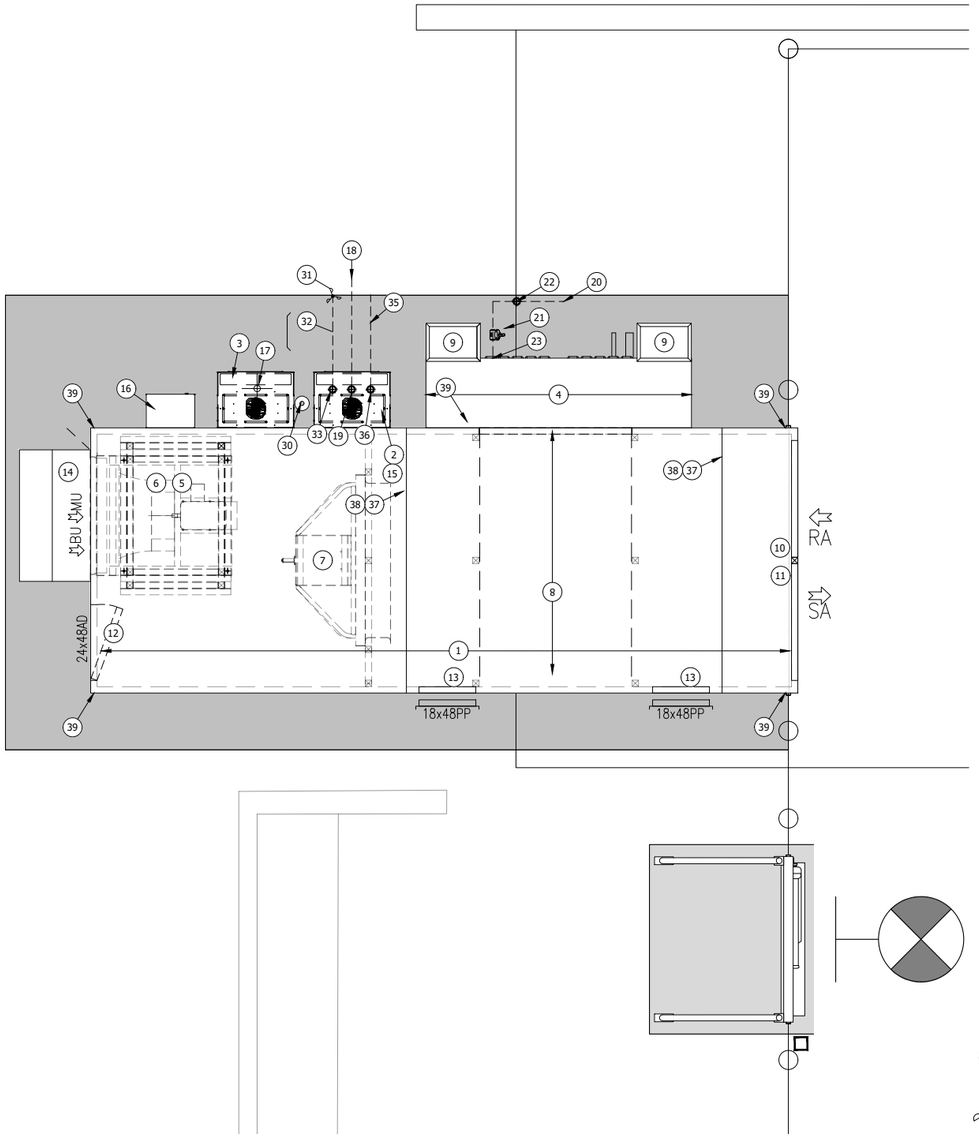
PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/4"=1'-0"
ANSI-D SIZE: 1/2"=1'-0"
0 1' 4' 6" 2' 6'

DRAWING TITLE:
LIGHT FIXTURE HANGING AND WIRING DETAILS

SHEET:
AE2.02





— —NG— — NATURAL GAS SERVICE (BY OTHERS)

– –ELEC– — ELECTRICAL SERVICE (BY OTHERS)

– –CW– — CONTROL WIRING (BY OTHERS)

1 *ENLARGED MECHANICAL PAD PLAN*

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

DRAWINGS SHOW EQUIPMENT WHICH WILL BE FURNISHED BY ARIZON OR BY OTHERS ARE ARE NOT PART OF THE STRUCTURAL DESIGN OR ANALYSIS.

KEYED NOTES:

1. AIR HANDLING UNIT (AHU)
2. PRIMARY ELECTRICAL AND CONTROLS CABINET
3. SECONDARY ELECTRICAL AND CONTROLS CABINET
4. BURNER CABINET
5. PRIMARY INFLATION FAN (BELOW)
6. BACKUP INFLATION FAN (ABOVE)
7. CIRCULATION FAN
8. HEAT EXCHANGER
9. HEATER EXHAUST FLUE PIPE
10. SUPPLY AIR DISCHARGE OPENING (ABOVE)
11. RETURN AIR INTAKE OPENING (BELOW)
12. ACCESS DOOR
13. PULL PANEL
14. RAIN HOOD
15. MAIN POWER DISTRIBUTION PANEL (BELOW)
16. TRANSFORMER (IF APPLICABLE)
17. AUTOMATIC TRANSFER SWITCH
18. PRIMARY ELECTRIC SERVICE TO AIR HANDLING UNIT (208v, 3ϕ, 60Hz)
19. STUB-UP FOR UNDERGROUND PRIMARY ELECTRIC SERVICE
20. PRIMARY NATURAL GAS SERVICE TO AIR HANDLING UNIT
21. NATURAL GAS REGULATOR FOR AIR HANDLING UNIT (BY OTHERS)
22. STUB-UP FOR UNDERGROUND NATURAL GAS SERVICE.
23. REGULATED GAS SUPPLY AT INLET TO AIR HANDLING UNIT MUST BE 2,000 BTU's AT 11 IN/W.C. MINIMUM, 14 IN/WC MAXIMUM.
24. BACK UP GENERATOR (18kW, 240v, 1ø, 60Hz) TO BE 20'-0" (MIN.) FROM DOME PER 2012 IFC 3104.19 SEPARATION OF GENERATORS
25. BACK UP ELECTRICAL SERVICE & CONTROLS WIRING
26. STUB-UP FOR UNDERGROUND NATURAL GAS
27. NATURAL GAS SERVICE TO GENERATOR
28. NATURAL GAS REGULATOR FOR GENERATOR (BY OTHERS)
29. REGULATED GAS SUPPLY AT INLET TO GENERATOR MUST BE 247,000 BTU's AT 3.5 IN/WC MINIMUM, 7 IN/WC MAXIMUM
30. SNOW SENSOR
31. WIND SENSOR (ANEMOMETER)(SEE NOTE 8)
32. WIND SENSOR CONTROL WIRING (BY OTHERS)
33. STUB-UP FOR UNDERGROUND WIND SENSOR CONTROL WIRING
34. REMOTE TOUCH SCREEN DISPLAY CONSOLE
35. REMOTE TOUCH SCREEN DISPLAY CONSOLE CONTROL WIRING (BY OTHERS)
36. STUB-UP FOR UNDERGROUND REMOTE DISPLAY CONSOLE WIRING
37. PRE-WIRED, COLOR CODED ELECTRICAL TERMINATIONS AT SHIPPING SPLITS. TERMINATIONS TO BE COMPLETED IN THE FIELD BY THE ELECTRICAL CONTRACTOR. TERMINATION BOXES MAY BE LOCATED ON THE INTERIOR OR EXTERIOR OF THE UNIT. ENSURE THAT ALL TERMINATIONS ARE COMPLETED PRIOR TO ENERGIZING THE EQUIPMENT.
38. MECHANICAL CONNECTIONS AT SHIPPING SPLITS TO BE COMPLETED BY THE INSTALLING MECHANICAL CONTRACTOR, ALL FASTENERS PROVIDED BY ARIZON. REFER TO THE EQUIPMENT I.O.M. FOR INSTALLATION INSTRUCTIONS FOR GASKET, TRIM STRIPS, AND SEALANT.
39. (1) ½" DIA. HILTI KWIK TZ STAINLESS STEEL STUD ANCHOR (3 1/4" MIN EMBED) AT EACH CORNER OF AIR HANDLING UNIT (TYP.).
40. (1) ¼" DIA. TAPCON ANCHOR (1 ½" MIN EMBED) AT EACH CORNER OF GENERATOR (TYP.).

GENERAL NOTES:

1. REFERENCE THE PROJECT RESPONSIBILITY MATRIX ON SHEET AA1.00 FOR DETAILED INFORMATION REGARDING ARIZON'S SCOPE OF WORK.
2. INSTALLER TO DETERMINE AHU PLACEMENT BY ALIGNING CENTER LINE OF CLAMP CHANNEL WITH THE INSIDE EDGE OF THE ALUMINUM EXTRUSION
3. SEE TAB 6 OF THE SUBMITTAL FOR ADDITIONAL INFORMATION ON THE AIR HANDLING UNIT AND RELATED COMPONENTS.
4. SEE TAB 7 OF THE SUBMITTAL FOR ADDITIONAL INFORMATION ON THE BACKUP GENERATOR AND RELATED COMPONENTS.
5. ALL FIELD WIRING AND TERMINATIONS ARE TO BE FURNISHED AND INSTALLED BY THE INSTALLING ELECTRICAL CONTRACTOR PER ALL APPLICABLE CODES.
6. WIRING BETWEEN SHIPPING SECTIONS OF AIR HANDLING UNIT TO BE COMPLETED BY THE INSTALLING ELECTRICAL CONTRACTOR.
7. AIR HANDLING UNIT COMPONENTS SHOWN FOR SCHEMATIC REFERENCE ONLY. EXACT LOCATIONS MAY VARY.
8. ARIZON WILL PROVIDE 10 FEET OF EMT CONDUIT AND WIRES FOR TEMPORARY MOUNTING OF THE WIND SENSOR FOR INITIAL COMMISSIONING OF THE AIR HANDLING UNIT CONTROLS. THE OWNER'S ELECTRICIAN SHOULD RELOCATE THE SENSOR TO AN APPROPRIATE FINAL LOCATION BASED ON PREVAILING WIND CONDITIONS AT THE JOBSITE. INSTALLATION MUST BE IN STRICT ACCORDANCE WITH THE OEM'S INSTALLATION INSTRUCTIONS.

LEGEND

(OR) SNOW SENSOR

NATURAL GAS REGULATOR

(OR) WIND SENSOR (ANEMOMTER)

SERVICE CLEARANCE ZONE

DISPLAY CONSOLE

CONCRETE

REMOTE DISPLAY CONSOLE

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0	ISSUED FOR SUBMITTAL	C JORDAN 02-04-2022

SUBMITTALS / REVISIONS

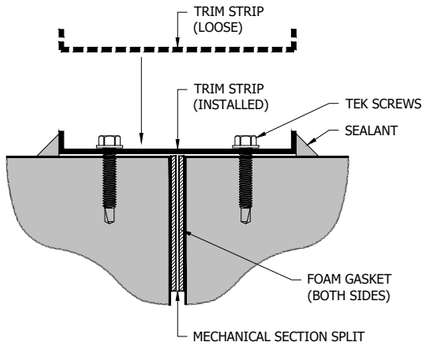
PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

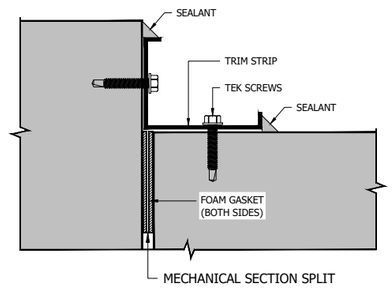
SCALE:
ANSI-B SIZE: 1/4"=1'-0"
ANSI-D SIZE: 1/2"=1'-0"
0 1' 4' 6" 2' 6'

DRAWING TITLE:
ENLARGED MECHANICAL CONCRETE PAD PLAN

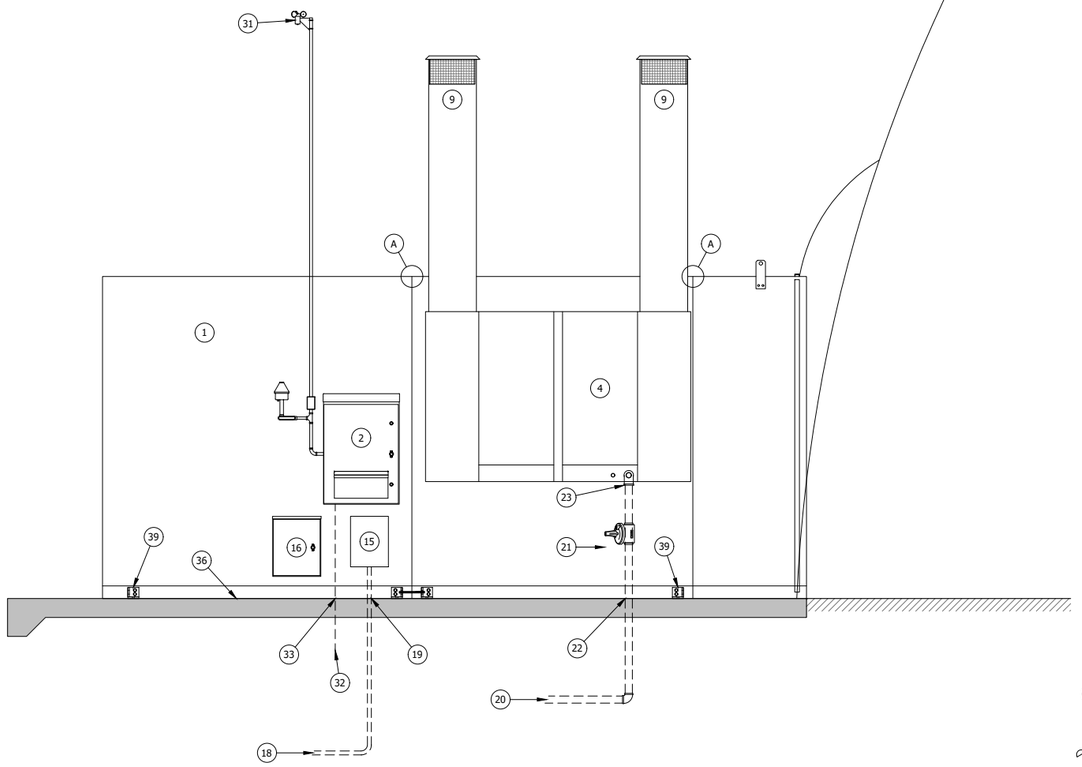
SHEET:
AM1.01



A *TYP. AHU TRIM STRIP INSTALLATION DETAIL*
SCALE: N.T.S.



B *TYP. AHU TRIM STRIP INSTALLATION DETAIL*
SCALE: N.T.S.



— —NG— — NATURAL GAS SERVICE (BY OTHERS)
– –ELEC– — ELECTRICAL SERVICE (BY OTHERS)
– –CW– — CONTROL WIRING (BY OTHERS)

1 *ENLARGED ELEVATION AT AIR HANDLING UNIT*
SCALE: 1/2" = 1'-0"

DRAWINGS SHOW EQUIPMENT WHICH WILL BE FURNISHED BY ARIZON OR BY OTHERS ARE ARE NOT PART OF THE STRUCTURAL DESIGN OR ANALYSIS.

KEYED NOTES:
1. AIR HANDLING UNIT (AHU)
2. PRIMARY ELECTRICAL AND CONTROLS CABINET
3. SECONDARY ELECTRICAL AND CONTROLS CABINET
4. BURNER CABINET
5. PRIMARY INFLATION FAN (BELOW)
6. BACKUP INFLATION FAN (ABOVE)
7. CIRCULATION FAN
8. HEAT EXCHANGER
9. HEATER EXHAUST FLUE PIPE
10. SUPPLY AIR DISCHARGE OPENING (ABOVE)
11. RETURN AIR INTAKE OPENING (BELOW)
12. ACCESS DOOR
13. PULL PANEL
14. RAIN HOOD
15. MAIN POWER DISTRIBUTION PANEL (BELOW)
16. TRANSFORMER (IF APPLICABLE)
17. AUTOMATIC TRANSFER SWITCH
18. PRIMARY ELECTRIC SERVICE TO AIR HANDLING UNIT (208v, 3ϕ, 60Hz)
19. STUB-UP FOR UNDERGROUND PRIMARY ELECTRIC SERVICE
20. PRIMARY NATURAL GAS SERVICE TO AIR HANDLING UNIT
21. NATURAL GAS REGULATOR FOR AIR HANDLING UNIT (BY OTHERS)
22. STUB-UP FOR UNDERGROUND NATURAL GAS SERVICE.
23. REGULATED GAS SUPPLY AT INLET TO AIR HANDLING UNIT MUST BE 2,000 BTU's AT 11 IN/W.C. MINIMUM, 14 IN/WC MAXIMUM.
24. BACK UP GENERATOR (18kW, 240v, 1ϕ, 60Hz) TO BE 20'-0" (MIN.) FROM DOME PER 2012 IFC 3104.19 SEPARATION OF GENERATORS
25. BACK UP ELECTRICAL SERVICE & CONTROLS WIRING
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39. (1) ½" DIA. HILTI KWIK TZ STAINLESS STEEL STUD ANCHOR (3 1/4" MIN EMBED) AT EACH CORNER OF AIR HANDLING UNIT (TYP.).
40. (1) ¼" DIA. TAPCON ANCHOR (1 ½" MIN EMBED) AT EACH CORNER OF GENERATOR (TYP.).

GENERAL NOTES:
1. REFERENCE THE PROJECT RESPONSIBILITY MATRIX ON SHEET AA1.00 FOR DETAILED INFORMATION REGARDING ARIZON'S SCOPE OF WORK.
2. INSTALLER TO DETERMINE AHU PLACEMENT BY ALIGNING CENTER LINE OF CLAMP CHANNEL WITH THE INSIDE EDGE OF THE ALUMINUM EXTRUSION
3. SEE TAB 6 OF THE SUBMITTAL FOR ADDITIONAL INFORMATION ON THE AIR HANDLING UNIT AND RELATED COMPONENTS.
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LEGEND

(OR) SNOW SENSOR
NATURAL GAS REGULATOR
(OR) WIND SENSOR (ANEMOMTER)
SERVICE CLEARANCE ZONE
DISPLAY CONSOLE
CONCRETE
REMOTE DISPLAY CONSOLE

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SUBMITTALS / REVISIONS

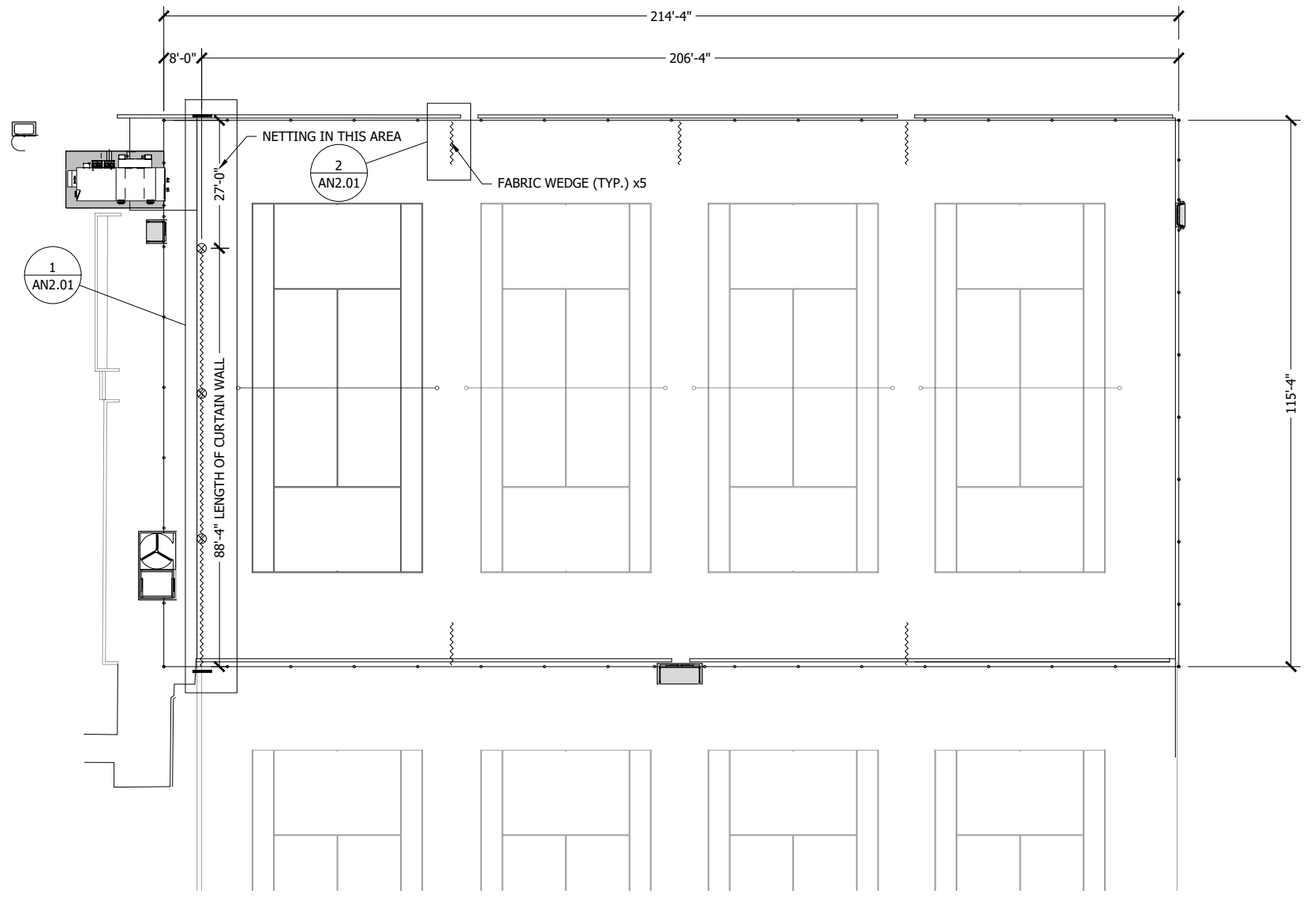
PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/4"=1'-0"
ANSI-D SIZE: 1/2"=1'-0"
1' 4'
0
6" 2' 6'

DRAWING TITLE:
ENLARGED MECHANICAL CONCRETE PAD ELEVATION

SHEET:
AM2.01



(NORTH)

LEGEND

- TENSION PLATE ASSEMBLY
- DROP CABLE ASSEMBLY
- FABRIC CURTAIN / NETTING
- CONCRETE

1 *DIVIDER NETTING PLAN*
SCALE: 1/16" = 1'-0"

NOT FOR CONSTRUCTION

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St. Louis, MO, USA 63043
Tel: (314) 739-0037
www.arizonbuildingsystems.com

CUSTOMER (BUYER):
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Dan Nordale
8700 SE 71st Street
Mercer Island, WA 98040
Tel: (206) 295-3687

JOB SITE ADDRESS:
8700 SE 71st Street
Mercer Island, WA 98040

ENGINEER:
MISSOURI
CASE Engineering Inc.
796 Meroc Court, St. Louis, MO 63026 | T 636.349.1600 | F 636.349.1730
CERTIFICATE OF AUTHORITY NO. 4002

1	UPDATED FROM SITE SURVEY AND NETTING REVISIONS	C JORDAN 02-18-2022
0	ISSUED FOR SUBMITTAL	C JORDAN 02-04-2022

SUBMITTALS / REVISIONS

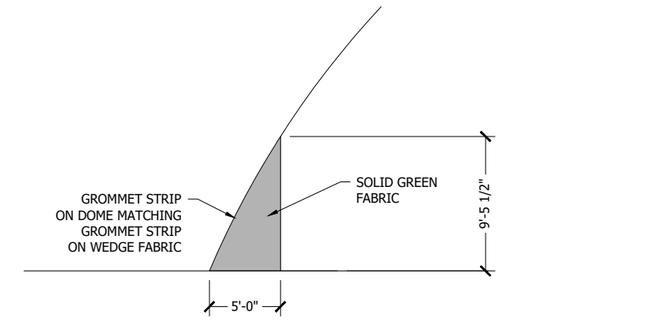
PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

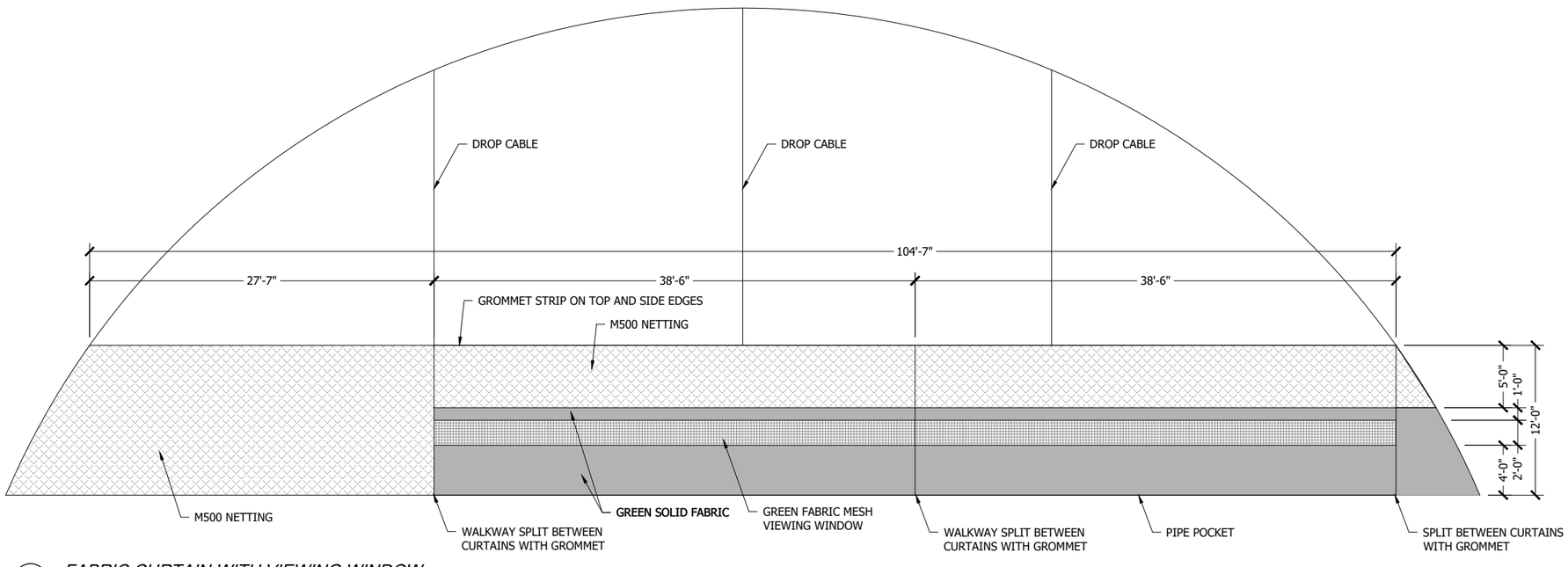
SCALE:
ANSI-B SIZE: 1/32"=1'-0"
ANSI-D SIZE: 1/16"=1'-0"
0 8' 32' 4' 16' 48'

DRAWING TITLE:
FABRIC CURTAIN AND WEDGE NETTING PLAN

SHEET:
AN1.01



2 *FABRIC WEDGE*
SCALE: 3/16" = 1'-0"



1 *FABRIC CURTAIN WITH VIEWING WINDOW*
SCALE: 3/16" = 1'-0"

NOT FOR CONSTRUCTION

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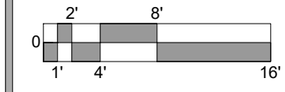


DRAWING TITLE:
FABRIC CURTAIN AND WEDGE
NETTING ENLARGED DETAILS

SHEET:
AN2.01

STRUCTURAL NOTES

General Notes:
1. Reference Standards: Unless otherwise noted, all standards shall be current edition, with latest addenda if applicable.
2. Read these drawings in conjunction with all related contract documents and architectural, mechanical and electrical drawings.
3. Contractor shall verify all dimensions, member sizes and field conditions prior to any fabrication, construction or installation and notify engineer if conditions, materials, sizes and dimensions are different from those shown.
4. Details and conditions not specifically shown shall be constructed in accordance with details shown for similar conditions and material.
5. Drawings are not to be scaled.
6. By accepting these documents for construction, the owner hereby acknowledges the following:
   a. The owner has read the owner's manual for operation and maintenance of the air structure.
   b. The owner agrees to train all employees who will be in charge of the air structure in the correct care of the dome. The training will specifically emphasize adjusting the internal pressures for weather events
   c. The owner shall record all changes in internal air pressure settings at the site and shall train all employees to also record all changes in internal air pressure settings.
7. Code study and compliance with life safety issues (including but not limited to use of building, occupant load, travel distance, ingress, egress, fire rating/smoke control requirements, etc.) are the responsibility of the Owner.

Codes:
1. International Building Code 2018
2. ASCE 7-16
3. ASCE 55-16 Tensile Membrane Structures

Loads:
1. Wind Loads
   a. Wind Speed = 110 mph (3 second gust)
   b. Wind Exposure = "C"
   c. Wind Importance Factor Iw = 1.0
   d. Arched Roof
2. Snow Loads
   a. Ground Snow Load Pg = 25 psf
   b. Flat Roof Snow Load Pf = 20.0 psf
   c. Curved Roof
   d. Snow Exposure Factor Ce = 1.0
   e. Snow Importance Factor Is = 1.0
   f. Thermal Factor Ct = 1.0 (Building is heated but is not a greenhouse)
3. Seismic Loads
   a. Not a consideration for fabric structures
4. Maximum Inflation Pressure = 1.8" w.c. = 9.36 psf

Materials:
1. Concrete
   a. 4,000 psi Slab on Grade, Mechanical Pads, Sidewalks, Door Stoops
   b. 4,000 psi Grade Beams, Foundation Walls
   c. 4,000 psi Footings
   d. All concrete exposed to freeze thaw cycles shall have 5% - 7% air entrainment.
2. Steel
   a. 60,000 psi ASTM A615 Grade 60 Reinforcing
   b. 75,000 psi ASTM A185 Welded Wire Fabric
   c. 50,000 psi ASTM A992 "W" Shapes
   d. 36,000 psi ASTM A36 Plates and Angles, etc.
   e. 46,000 psi ASTM A500 Grade "B" Structural Tubes
   f. 92,000 psi ASTM A325 High Strength Bolts
   g. 50,000 psi ASTM F1554 Anchor Bolts Grade 55
3. Cable
   a. ϕ1/2" cables shall be 6x25, Drawn Galvanized, Independent Wire Rope Core (IWRC), Extra Improved Plow (EIP), nylon coated, steel cables with minimum breaking strength as specified unless otherwise noted.
   b. ϕ3/8" cables shall be 6x19, Drawn Galvanized, Independent Wire Rope Core (IWRC), Extra Improved Plow (EIP), nylon coated, steel cables with minimum breaking strength as specified unless otherwise noted.
4. Fabric
   a. Load bearing fabric breaking strength = 500 lbs / in.(Warp)
5. Shackles shall be similar to Crosby G-209 Series.

General Foundation Notes:
1. All foundation excavations, backfill and compaction shall be inspected and certified by a qualified soils testing firm prior to the construction of any footings. All reports are to be submitted to structural engineer.
2. Unless noted otherwise in the soils report, earth fill placement shall be compacted to a dry density of not less than 95% of the standard proctor, and well graded granular fill shall be compacted to dry density of not less than 100% of the standard proctor. Fill shall be placed in layers not exceeding a loose thickness of 8 inches.
3. Furnish #4 and #5 continuous wall footing reinforcing in stock lengths. Field bend #4 around corners and through footing steps. Shop bend #5 through footing steps and around corners. Lap continuous footing reinforcing per ACI guidelines but not less than 15" and stagger all splices.
4. Cast dowels in footings for concrete columns and walls above. Dowels to be same number and size as the vertical reinforcing, unless noted otherwise. Dowels are to project from footings 30 bar diameters or a minimum of 24" whichever is greater. Provide 90 degree bend in column footing dowels. Wall footing dowels are straight, unless noted otherwise.
5. Shore all foundation walls before backfilling and compacting.
6. Concrete footings placed in earth trenched forms shall be free from standing water and frost. Concrete footings shall be protected from freezing for a period of not less than 5 days.
7. Provide 6x6 W1.4xW1.4 W.W.F. (6x6 10/10 W.W.F.) on all slabs on grade and entrance platforms, unless noted otherwise.

General Concrete Notes:
1. Standards
   a. ACI 318 "Building Code" requirement for reinforced concrete.
   b. ACI 315 "Manual of Standard Practice" for detailing reinforcing for concrete structures.
   c. ACI 347 "Recommended Practice for Concrete Formwork"
   d. ACI 304 "Recommended Practice for Measuring, Mixing, Transporting and Placing Concrete"
   e. ACI 309 "Recommended Practice for Consolidation of Concrete" (ACI 309-72)
   f. ACI 308 "Recommended Practice for Curing Concrete"
   g. ACI 306 "Recommended Practice for Cold Weather Concrete"
   h. ACI 305 "Recommended Practice for Hot Weather Concrete"
2. Reinforcing supplier to provide all accessories, chairs, spacing bars and supports necessary to secure steel in accordance with the most recent edition of the "Manual so Standard Practice" by the Concrete Reinforcing Steel Institute.
3. Supplier shall provide plastic chairs and bar supports in all areas of exposed concrete.
4. Provide minimum concrete protection for all reinforcement as follows:
   a. Cast against and permanently exposed to earth = 3"
   b. Exposed to earth or weather:
      i.a. #5 bars and smaller - 1 ½"
      ii.b. #6 bars and larger - 2"
   ij. Not exposed to weather or in contact with ground:
      i.a. Slabs, walls & joists (#3 to #11 bars) = ¾"
      ii.b. Beams, girders & columns, main reinforcement, ties, stirrups or spirals = 1 - ½"
   ij. Provide corner bars at all walls, grade beams and edge beams. Corner bar to be the same size and spacing as all horizontal bars.
   ik. At openings in slabs or walls, provide a minimum of two #6 bars each side of opening, bars to be 6'-0" longer than the opening.
   il. At openings in slabs or walls, provide a minimum of two #6 bars each side of opening.
   im. Provide minimum concrete wall reinforcing as follows: (unless noted otherwise)
      i.a. 6" & 8" concrete walls:
         #4 @ 16" O.C. vert. & #4 @ 10" horiz. (center in wall)
      ii.b. 10" concrete walls:
         #4 @ 16" O.C. vert. & #4 @ 16" horiz. (each face)
      iii.c. 12" concrete walls:
         #4 @ 16" O.C. vert. & #4 @ 12" horiz. (each face)
      iv.d. 16" concrete walls:
         #4 @ 16" O.C. vert. & #4 @ 12" horiz. (each face)
   iw. No aluminum of any type shall be allowed in the concrete work, unless coated to prevent aluminum concrete reaction.
   ix. Maximum outside diameter of embedded conduit shall be no larger than 1/3 of the slab thickness and the conduit shall be placed such that it does not significantly impair the strength of construction.

General Steel Notes:
1. Construction of structural steel shall comply with all the requirements of AISC "Specifications for Structural Steel for Buildings Allowable Stress Design and Plastic Design".
2. All welds shall be per the latest edition of the specifications of the AWS. E70xxx electrodes.
3. Post installed anchors in concrete or masonry shall be ICC approved for use in cracked concrete. Approved anchors shall be Hilti Kwik Bolt TZ Expansion Anchors or a Hilti HIT-RE 500-SD Safe Set System, unless noted otherwise. Install anchors in strict conformance with anchor manufacturer's instructions. **NO ANCHORS SHALL BE INSTALLED WITHOUT THE WRITTEN CONSENT OF THE ENGINEER!**
4. All steel beams shall be true to line and elevation, column base plates grouted and anchor bolts tight before any loads are placed.
5. All column base and cap plates shall be welded around all sides.
6. All welds not specified are 3/16" fillet weld, continuous and/or all around.

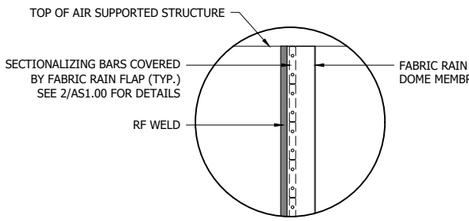
General Notes for Hilti Post-Installed Anchors:
Adhesive anchors for cracked and uncracked concrete use:
1. Hilti HIT-HY 200 Safe set system with Hilti hollow drill bit (TE-CD or TE-YD) and VC20/40 vacuum (VC 20-U or VC 40-U) system with continuously deformed rebar per ICC ESR-3187.
2. Hilti HIT-HY 500 V3 Safe set system with Hilti hollow drill bit (TE-CD or TE-YD) and VC20/40 vacuum (VC 20-U or VC 40-U) system with continuously deformed rebar per ICC ESR-3814.

Anchor capacity used in design shall be based on the technical data published by Hilti or such other method as approved by the structural engineer of record, substitution requests for alternate products must be approved in writing by the structural engineer of record prior to use. Contractor shall provide calculations demonstrating that the substituted product is capable of achieving the performance values of the specified product. Substitutions will be evaluated by their having an ICC ESR showing compliance with the relevant building code for seismic uses, load resistance, installation category, and availability of comprehensive installation instructions. Adhesive anchor evaluation will also consider creep, in-service temperature and installation temperature.

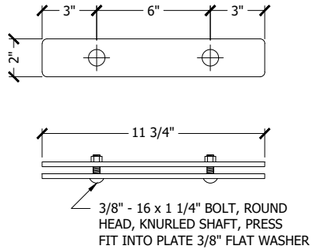
Install anchors per the manufacturer instructions, as included in the anchor packaging.

Anchor capacity is dependant upon spacing between adjacent anchors and proximity of anchors to edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.

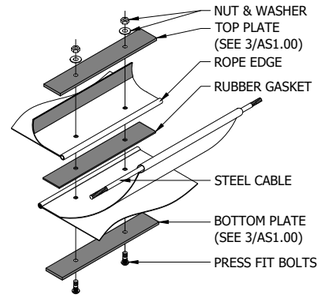
Existing reinforcing bars in the concrete structure may conflict with specific anchor locations. Unless noted on the drawings that the bars can be cut, the contractor shall review the existing structural drawings and shall undertake to locate the position of reinforcing bars at the locations of the concrete anchors, by Hilti ferroscan, GPR, X-ray, chipping or other means.



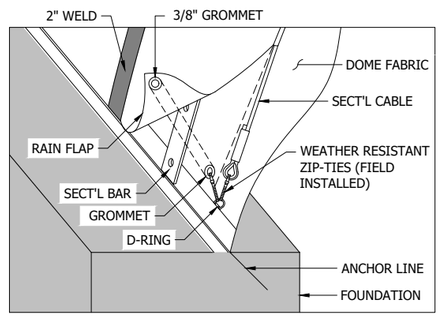
4 *SECT'L RAIN FLAP DETAIL*
SCALE: 1/2" = 1'-0"



3 *SECTIONALIZING BAR*
SCALE: 3" = 1'-0"



2 *SECTIONALIZING ASSEMBLY DETAIL*
SCALE: 1 1/2" = 1'-0"



1 *RAIN FLAP ANCHOR DETAIL*
SCALE: 1 1/2" = 1'-0"

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SUBMITTALS / REVISIONS

PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
AS NOTED

0

DRAWING TITLE:
STRUCTURAL NOTES AND SECTIONALIZING INSTALLATION DETAILS

SHEET:
AS0.01

SPECIAL INSPECTIONS - STEEL TABLE

ITEM	INSPECTION FREQUENCY	SCOPE
MATERIAL VERIFICATION	PERIODIC	HIGH STRENGTH BOLTS, NUTS, AND WASHERS: REVIEW MANUFACTURER'S CERTIFICATE OF COMPLIANCE; IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE CONSTRUCTION DOCUMENTS
MATERIAL VERIFICATION	PERIODIC	STRUCTURAL STEEL: REVIEW MANUFACTURER'S CERTIFIED MILL TEST REPORTS; IDENTIFICATION MARKINGS ON STEEL SHAPES TO CONFORM TO AISC STANDARDS SPECIFIED IN THE CONSTRUCTION DOCUMENTS
MATERIAL VERIFICATION	PERIODIC	WELD FILLER MATERIALS: REVIEW MANUFACTURER'S CERTIFICATE OF COMPLIANCE; IDENTIFICATION MARKINGS TO CONFORM WITH AWS SPECIFICATIONS IN THE CONSTRUCTION DOCUMENTS
HIGH-STRENGTH BOLTING	PERIODIC	BEARING-TYPE CONNECTIONS: VERIFY BOLTS, NUTS, WASHERS, PAINT, INSTALLATION, AND TIGHTENING CONFORM TO THEIR RESPECTIVE STANDARDS
WELDING	PERIODIC	SINGLE PASS FILLET WELDS NOT GREATER THAN 5/16"
WELDING	PERIODIC	VERIFY WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706; ALL REINFORCING STEEL NOT REQUIRING CONTINUOUS INSPECTION
STRUCTURAL DETAILS	PERIODIC	INSPECT STEEL FRAME FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS FOR MEMBER SIZES AND LOCATIONS, BRACING, AND CONNECTIONS

SPECIAL INSPECTIONS - CONCRETE TABLE

ITEM	INSPECTION FREQUENCY	SCOPE
REINFORCEMENT	PERIODIC	INSPECT REINFORCEMENT (INCLUDING PRESTRESSING TENDONS) AND PLACEMENT; VERIFY CONFORMANCE WITH CONSTRUCTION DOCUMENTS, AND THAT BARS ARE FREE FROM MATERIALS THAT COULD PREVENT BOND, ARE ADEQUATELY LAPPED, SPLICED, TIED, AND SUPPORTED
REINFORCEMENT	PERIODIC	VERIFY WELDABILITY OF REBAR OTHER THAN ASTM A 706; INSPECT SINGLE PASS FILLET WELDS NOT GREATER THAN 5/16"
REINFORCEMENT	CONTINUOUS	INSPECT ALL OTHER WELDS (SEE ALSO "STEEL" SPECIAL INSPECTIONS TABLE)
ANCHOR INSTALLATION	PERIODIC	INSPECT CAST-IN-PLACE ANCHORS AND BOLTS
ANCHOR INSTALLATION	PERIODIC	INSPECT POST-INSTALLED MECHANICAL AND ADHESIVE ANCHORS NOT OTHERWISE SPECIFIED
ANCHOR INSTALLATION	CONTINUOUS	INSPECT POST-INSTALLED ADHESIVE ANCHORS THAT RESIST SUSTAINED TENSION LOADS
ANCHOR INSTALLATION	CONTINUOUS	INSPECT POST-INSTALLED MECHANICAL AND ADHESIVE ANCHORS PER THE REQUIREMENTS IN THEIR ESPECTIVE ICC-ES REPORTS
MIX DESIGN	PERIODIC	VERIFY USE OF APPROVED MIX DESIGN
SAMPLING AND TESTING	CONTINUOUS	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTING; PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF THE CONCRETE
CONCRETE PLACEMENT	PERIODIC	VERIFY MAINTENANCE OF CURING TEMPERATURE AND TECHNIQUES
CONCRETE PLACEMENT	PERIODIC	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED
CONCRETE PLACEMENT	CONTINUOUS	CONCRETE PLACEMENT

SPECIAL INSPECTIONS - SOILS AND FOUNDATIONS TABLE

ITEM	INSPECTION FREQUENCY	SCOPE
SOILS	PERIODIC	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY; VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL; PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS; PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY
SOILS	CONTINUOUS	VERIFY USE OF PROPER MATERIALS, DENSITIES, LIFT THICKNESSES, AND COMPACTION OF FILL; VERIFY MATERIALS AND PROCEDURES COMPLY WITH THE GEOTECHNICAL REPORT

SPECIAL INSPECTIONS - OFF-SITE FABRICATION
(INCLUDING PRE-MANUFACTURED WOOD STRUCTURAL ELEMENTS AND ASSEMBLIES, AND STEEL FABRICATING)

ITEM	INSPECTION FREQUENCY	SCOPE
FABRICATION AND IMPLEMENTATION PROCEDURES	PERIODIC	VERIFY THAT FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS; REVIEW PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK
NOTE	-	SPECIAL INSPECTION FOR OFF-SITE FABRICATION IS NOT REQUIRED FOR FABRICATORS APPROVED BY THE BUILDING OFFICIAL IN ACCORDANCE WITH THE CODE

SPECIAL INSPECTIONS

1. REFER TO THE SPECIAL INSPECTION TABLES FOR THE LIST OF ELEMENTS OF CONSTRUCTION THAT SHALL REQUIRE SPECIAL INSPECTION. THIS SHALL BE CONSIDERED A GUIDE, AND THE CONTRACTOR AND INSPECTOR SHALL REFER TO THE IBC FOR COMPLETE REQUIREMENTS, QUALIFICATIONS, EXCEPTIONS, AND SUBMITTALS. REFER TO IBC SECTION 1704 FOR 2003-2009 CODES, AND SECTION 1705 FOR 2012-2015 CODES. THE OWNER SHALL BE RESPONSIBLE FOR EMPLOYING THE SPECIAL INSPECTION AGENCY. ANY "OBSERVATIONS" BY THE EOR WILL NOT BE TO PERFORM SPECIAL INSPECTIONS AND SHALL NOT BE INTERPRETED AS SUCH.
2. COPIES OF ALL INSPECTION REPORTS THAT REPORT COMPLIANCE SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, AND BUILDING INSPECTOR WITHIN 7 CALENDAR DAYS OF COMPLETION OF THAT PORTION OF WORK. A MINIMUM OF ONE (1) PROGRESS REPORT PER MONTH FOR EACH TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE STRUCTUAL ENGINEER OF RECORD.
3. SPECIAL INSPECTOR SHALL INFORM ENGINEER OF RECORD IMMEDIATELY OF NON-COMPLIANCE WITH CONSTRUCTION DOCUMENTS OR APPROVED SUBMITTALS. CONTACT ENGINEER OF RECORD THE SAME DAY NON-COMPLIANCE IS DISCOVERED AND FOLLOW UP WITH AN OFFICIAL REPORT WITHIN 2 BUSINESS DAYS.
4. THE SPECIAL INSPECTIONS IDENTIFIED ON THE PLANS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR, THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A BUILDING INSPECTOR.
5. SPECIAL INSPECTIONS ARE NOTED AS EITHER "CONTINUOUS" OR "PERIODIC". A "CONTINUOUS" INSPECTION REQUIRES THE PRESENCE OF A QUALIFIED INSPECTOR IN THE VICINITY OF THE WORK BEING PERFORMED FOR 100% OF THAT WORK. A "PERIODIC" INSPECTION REQUIRES PART-TIME OBSERVATION OF THE WORK BEING PERFORMED. THE INSPECTOR SHALL ALSO OBSERVE THE FINAL CONDITION OF THE WORK BEFORE IT IS CLOSED FROM VIEW.
6. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED, IT SHALL BE THE RESPONSIBILITY OF THE AGENT TO EMPLOY A SUFFICIENT NUMBER OF SPECIAL INSPECTORS TO ASSURE THAT ALL WORK IS CONTINUOUSLY INSPECTED IN ACCORDANCE WITH THOSE PROVISIONS.

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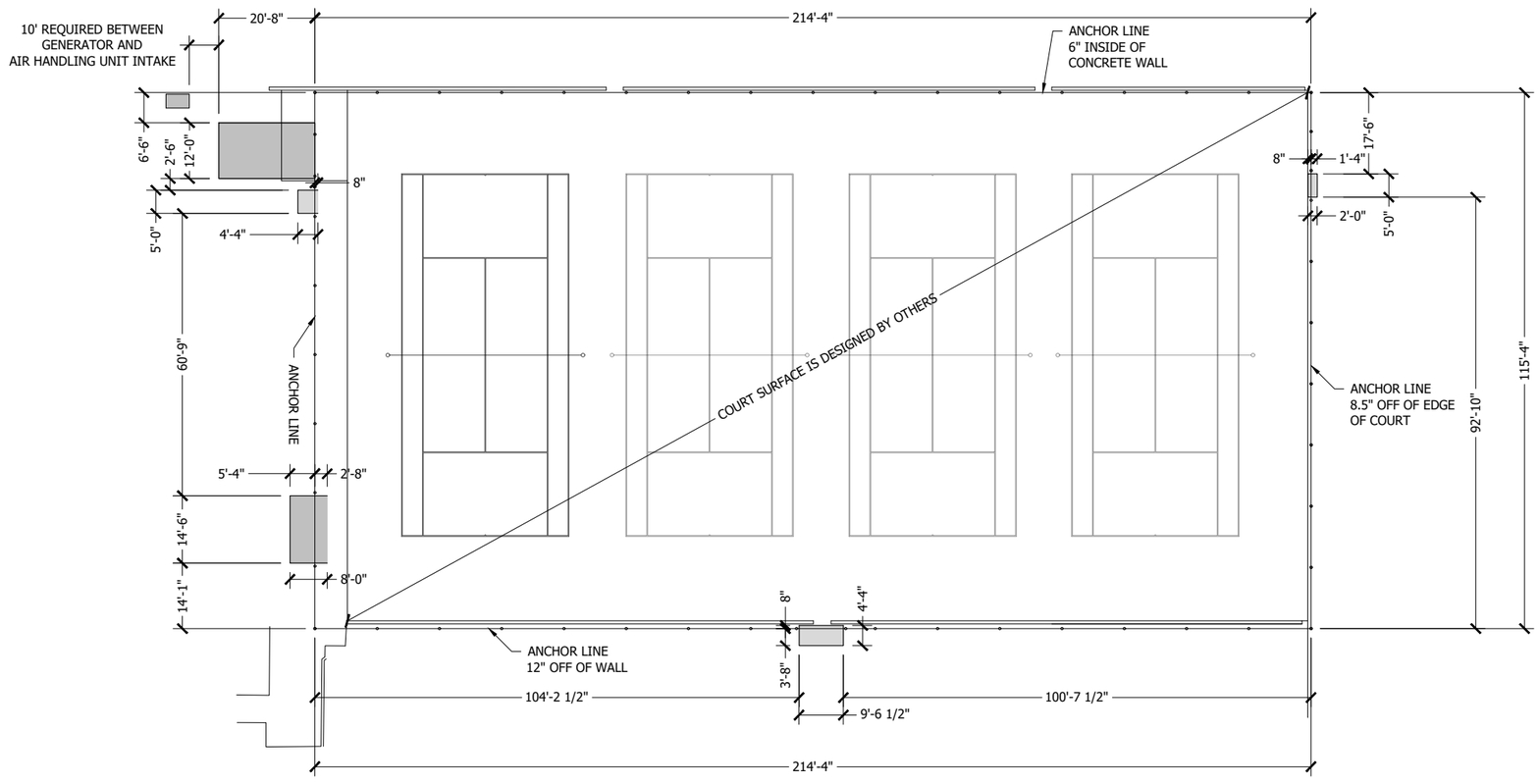
SCALE:
AS NOTED

DRAWING TITLE:
SPECIAL INSPECTIONS

SHEET:
AS0.02



(NORTH)

LEGEND

CONCRETE

1 *FOUNDATION PLAN*

SCALE: 1/16" = 1'-0"

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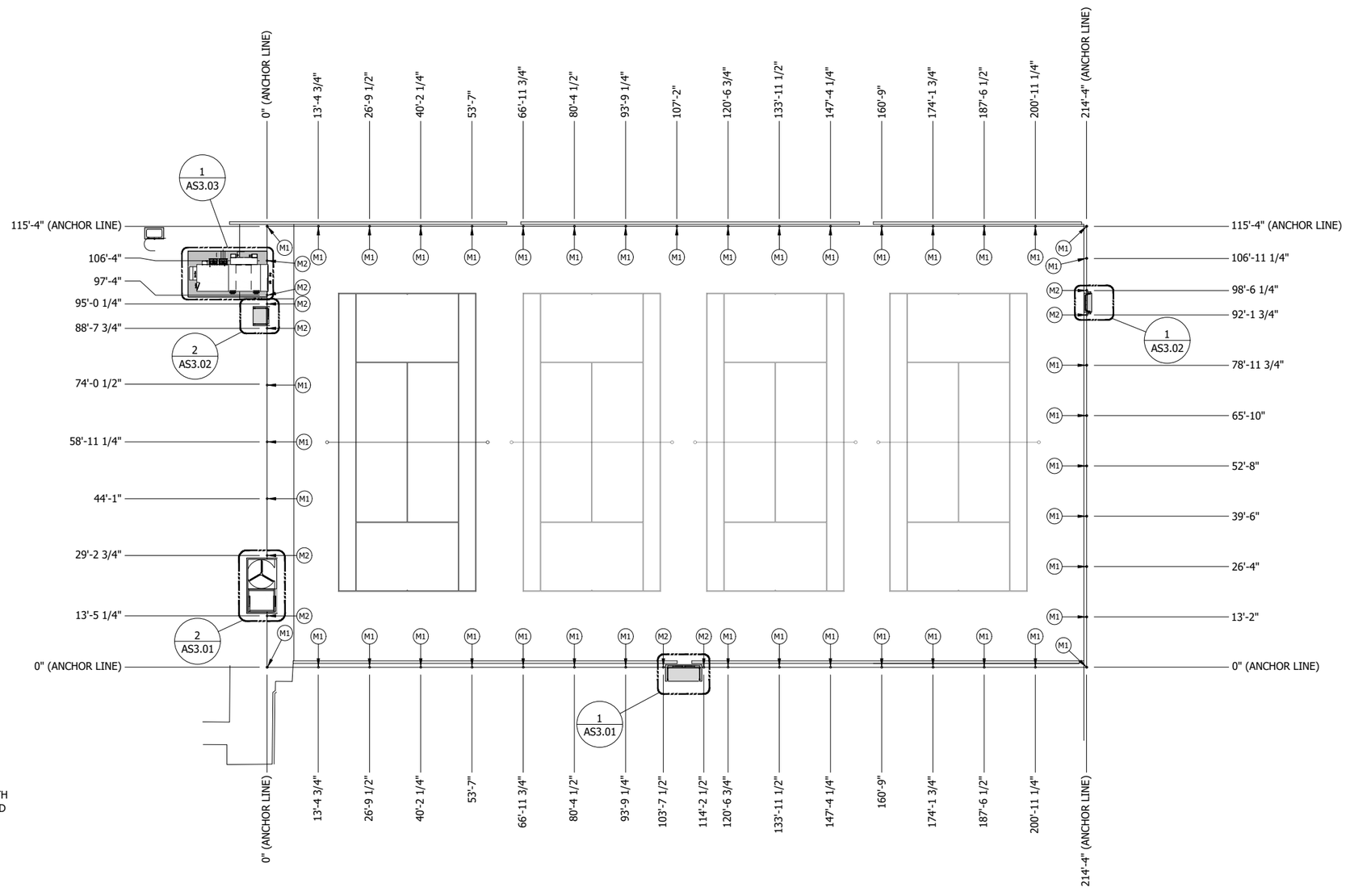
ANSI-D SIZE: 1/16"=1'-0"

0 8' 32' 4' 16' 48'

DRAWING TITLE:
FOUNDATION PLAN

SHEET:
AS1.01



(NORTH)

GENERAL NOTES:

1. DIMENSIONS ARE LOCATING THE HELICAL EARTH ANCHORS FOR ANCHORING THE AIR-SUPPORTED STRUCTURE. (SEE DETAIL 1/AS2.01)
2. THE HELICAL EARTH ANCHORS ARE CENTERED ALONG THE ANCHOR LINE OF THE DOME.
3. EACH ANCHOR LOCATION SHOULD HAVE A 12" DIAMETER (INSIDE DIAMETER) SLEEVED HOLE THROUGH CONCRETE SLAB FOR ANCHOR INSTALLATION.
4. AFTER INSTALLATION OF THE DOME, THESE SLEEVED HOLES SHOULD BE CAPPED TO REDUCE WATER INFILTRATION. THE TOP SHACKLE/EYELET MUST BE VISIBLE AND ABLE TO ATTACHED TO.

EARTH ANCHOR LOADING CHART

ANCHOR DESIGNATION	VERITCAL LOAD KIPS (ASD)	HORIZONTAL LOAD KIPS (ASD)	PITCH ANGLE OF INSTALLATION	COMPONENT	QUANTITY OF ANCHORS
M1	20 KIPS	10 KIPS	15° ± 5°	MAIN CATENARY SYSTEM	43
M2	25 KIPS	10 KIPS	15° ± 5°	OPENING + CATENARY SYSTEM	10

LEGEND

CONCRETE

1 *HELICAL EARTH ANCHOR PLAN*

SCALE: 1/16" = 1'-0"

NOT FOR CONSTRUCTION

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www.arizonbuildingsystems.com

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Dan Nordale
8700 SE 71st Street
Mercer Island, WA 98040
Tel: (206) 295-3687

JOB SITE ADDRESS:
8700 SE 71st Street
Mercer Island, WA 98040

ENGINEER:
MISSOURI
CASE Engineering Inc.
796 Meron Court, St. Louis, MO 63026
T 636.349.1600 | F 636.349.1730
CERTIFICATE OF AUTHORITY NO. 4002

1	UPDATED FROM SITE SURVEY AND NETTING REVISIONS	C JORDAN 02-18-2022
0	ISSUED FOR SUBMITTAL	C JORDAN 02-04-2022

SUBMITTALS / REVISIONS

PROJECT NO:
A10396

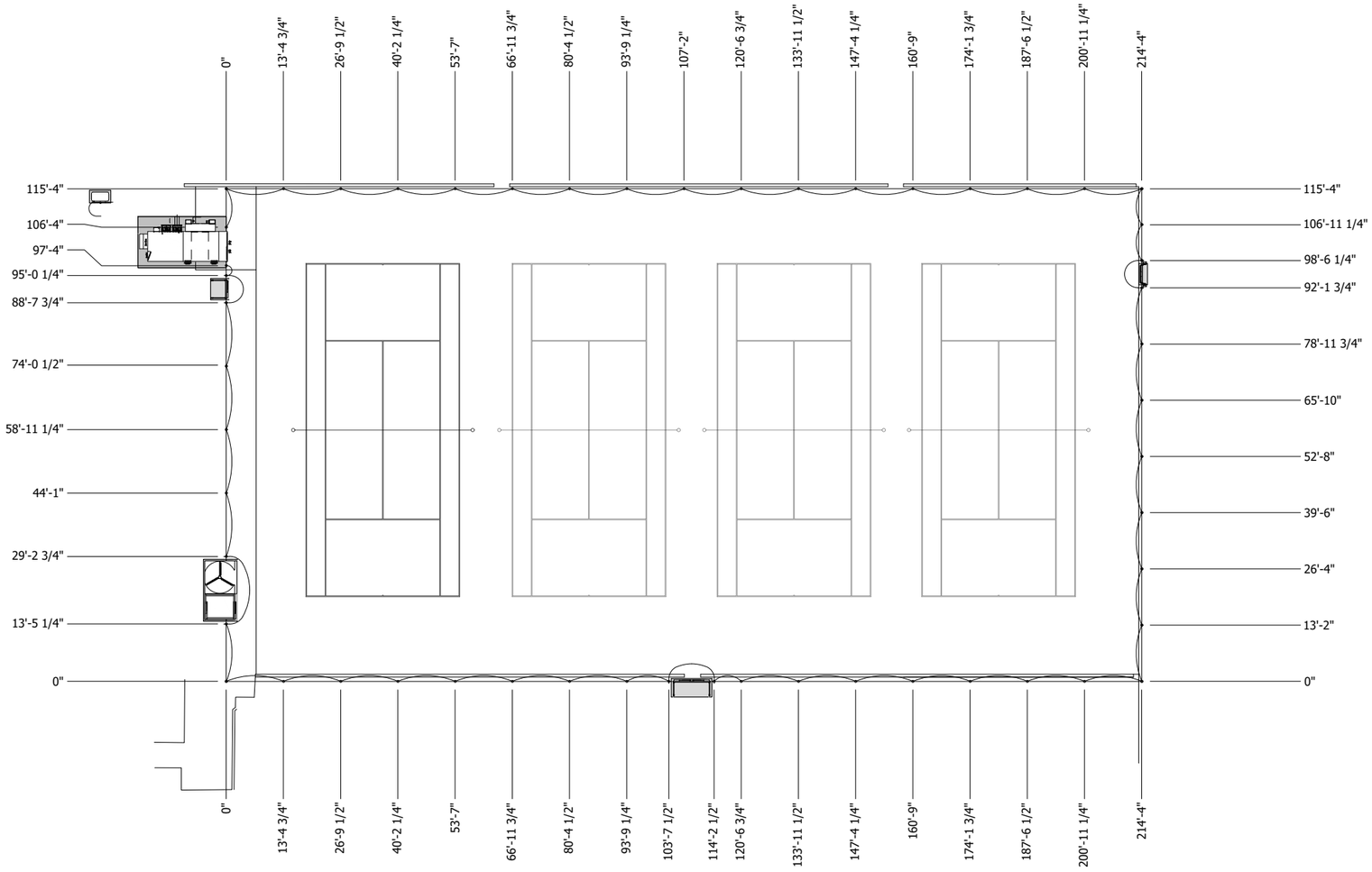
PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/32"=1'-0"
ANSI-D SIZE: 1/16"=1'-0"

0 — 4' — 8' — 16' — 32' — 48'

DRAWING TITLE:
EARTH ANCHOR PLAN

SHEET:
AS1.02



(NORTH)

LEGEND

CATENARY CABLE

CONCRETE

GENERAL NOTES:

1. DIMENSIONS SHOWN IS THE LOCATION WHERE THE CATENARY CABLE ATTACHES TO THE HELICAL EARTH ANCHOR.

1 *STRUCTURAL CATENARY CABLE PLAN*

SCALE: 1/16" = 1'-0"

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PROJECT NO:
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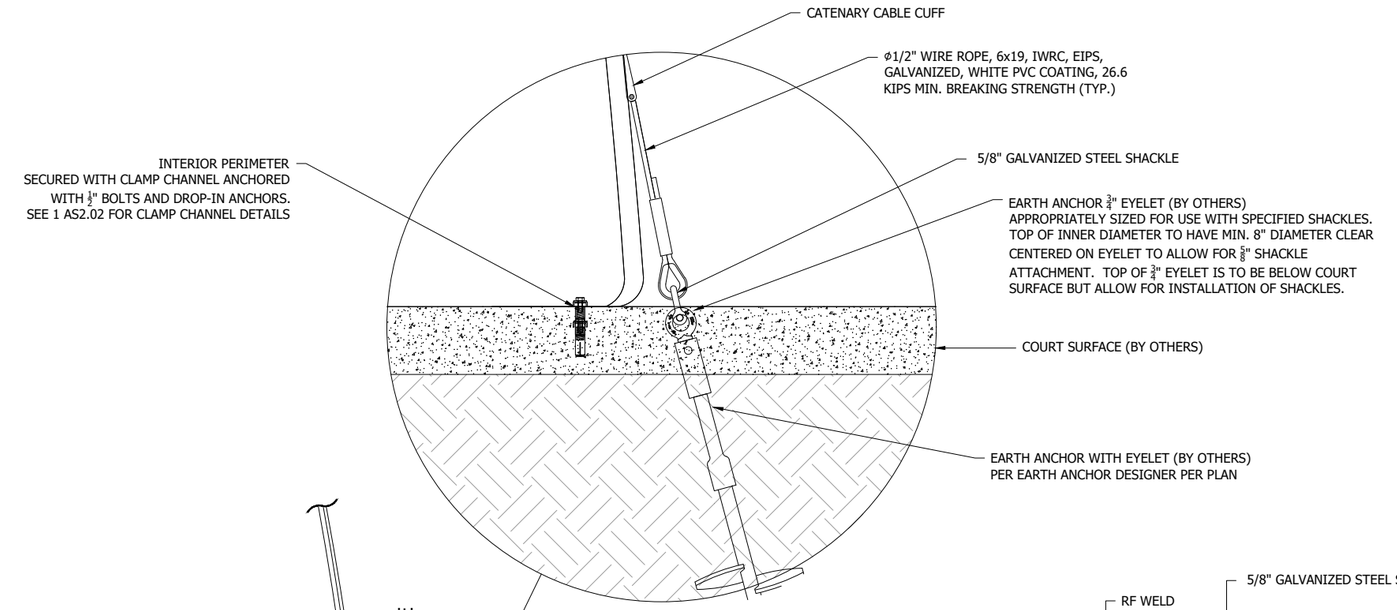
PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

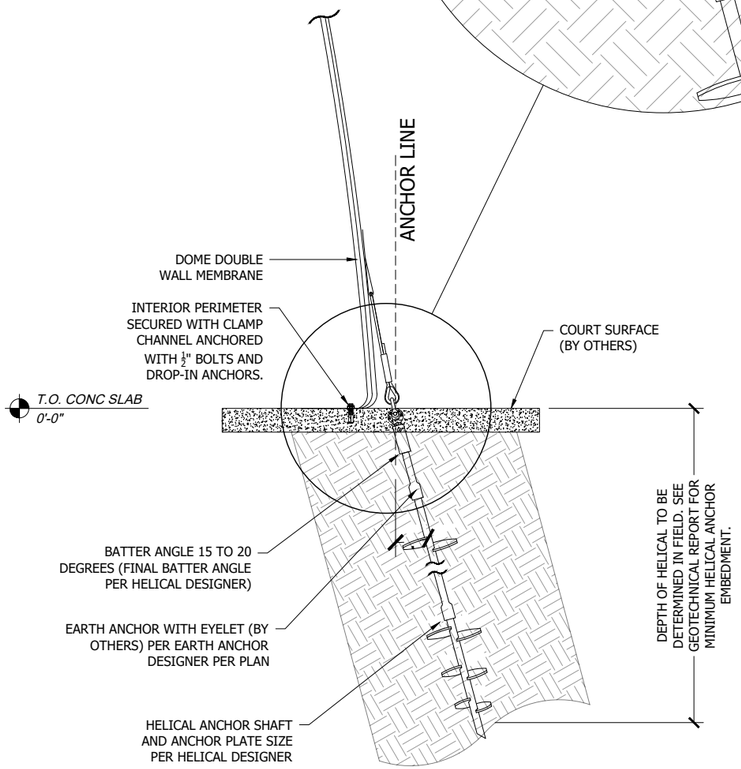
SCALE:
ANSI-B SIZE: 1/32"=1'-0"
ANSI-D SIZE: 1/16"=1'-0"

0 8' 32' 4' 16' 48'

DRAWING TITLE:
STRUCTURAL CABLES PLAN

SHEET:
AS1.03





2 *ENLARGED SECTION AT PERIMETER CATENARY SYSTEM*
SCALE: 3/4" = 1'-0"

1 *ENLARGED ELEVATION AT PERIMETER CATENARY SYSTEM*
SCALE: 3/4" = 1'-0"

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SUBMITTALS / REVISIONS

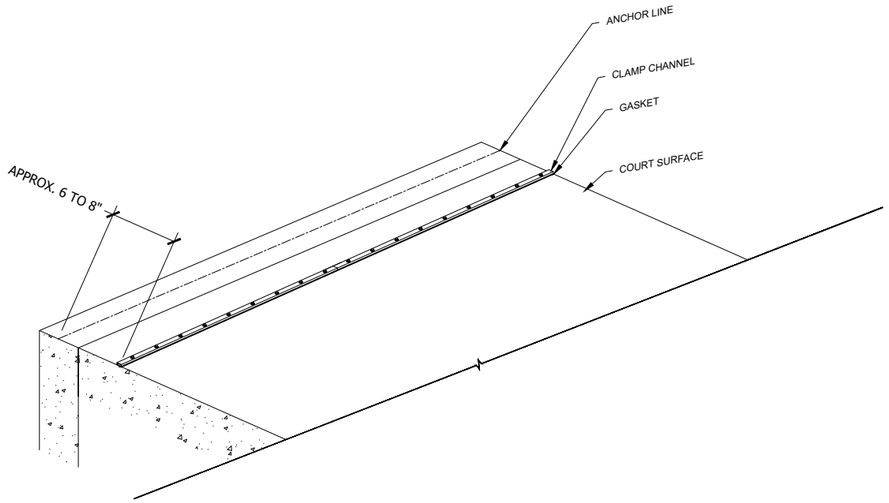
PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

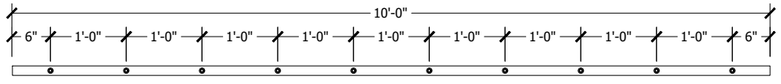
SCALE:
ANSI-B SIZE: 3/8"=1'-0"
ANSI-D SIZE: 3/4"=1'-0"
6" 2'
0
3" 1' 4'

DRAWING TITLE:
ENLARGED CATENARY CABLE AND EARTH ANCHOR DETAILS

SHEET:
AS2.01

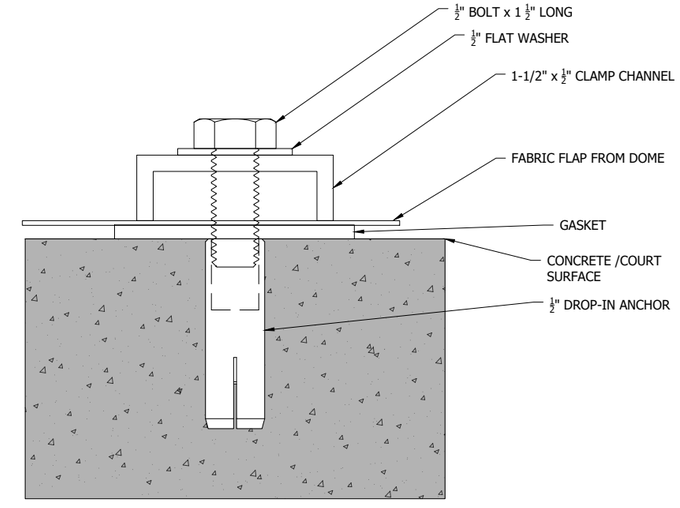


3 *ISOMETRIC VIEW OF CLAMP CHANNEL SYSTEM*
SCALE: 1" = 1'-0"



NOTE: ARIZON WILL SUPPLY 10' SECTIONS OF CLAMP CHANNEL THAT MAY NEED TO BE CUT TO LENGTH IN THE FIELD DURING THE INITIAL INSTALLATION.

2 *TYPICAL PLAN VIEW OF CLAMP CHANNEL*
SCALE: 1" = 1'-0"



1 *ENLARGED VIEW OF CLAMP CHANNEL SYSTEM*
SCALE: 1" = 1'-0"

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PROJECT NO:
A10396

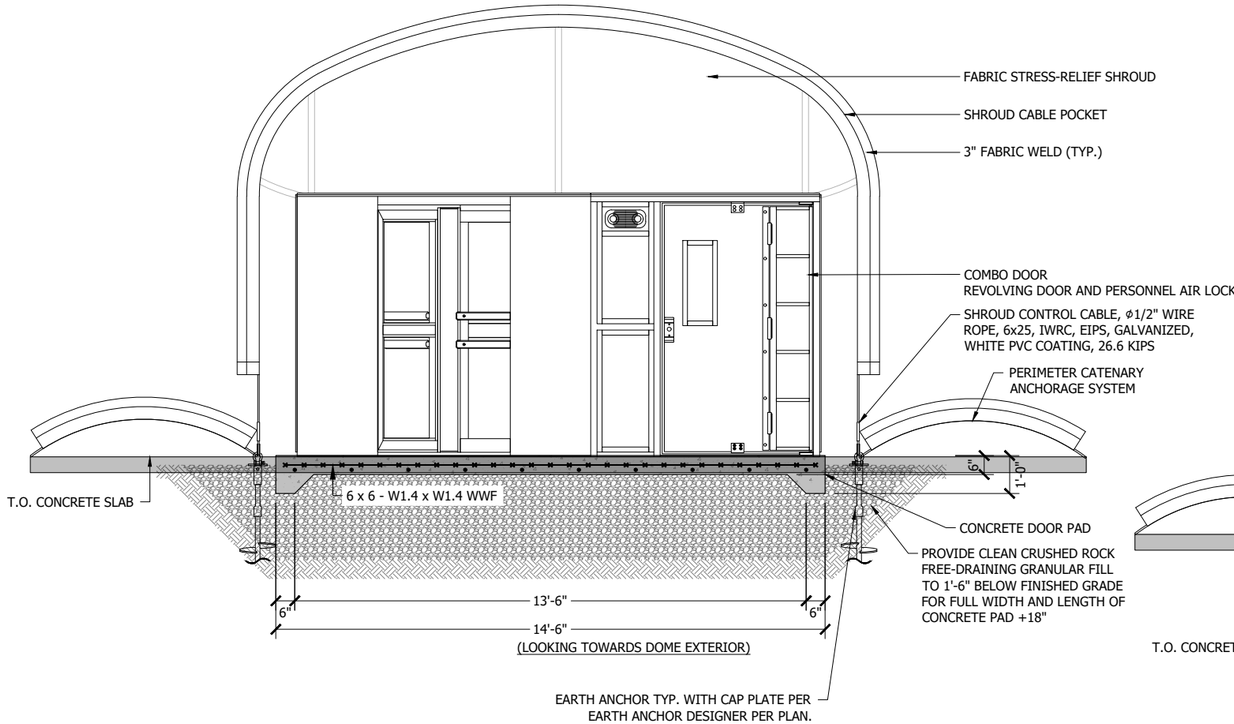
PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/2"=1'-0"
ANSI-D SIZE: 1"=1'-0"

0 6" 2' 3" 1' 3'

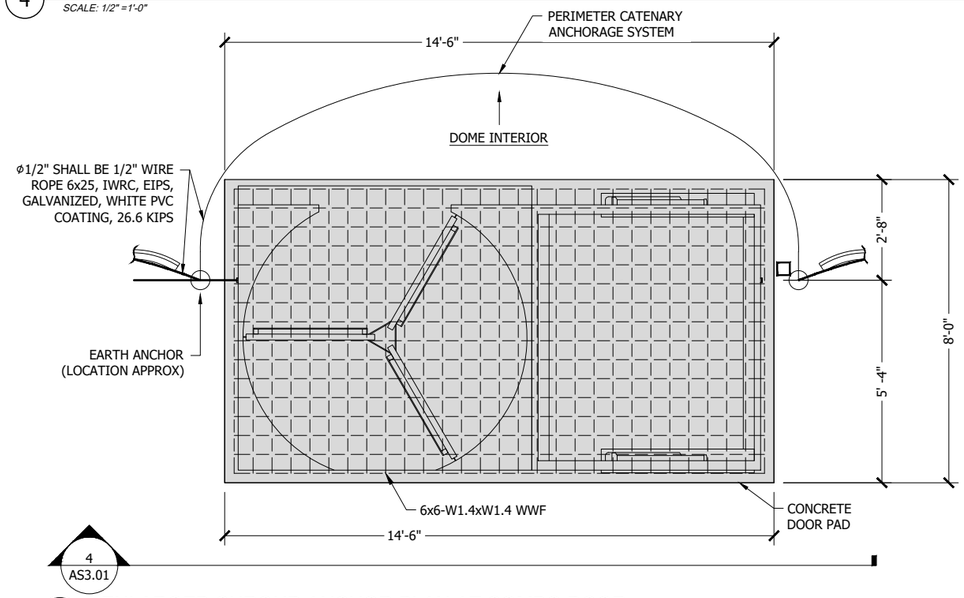
DRAWING TITLE:
CONC CONSTRUCTION, EXPANSION, AND CONTROL JOINTS, CORNER DETAILS

SHEET:
AS2.02



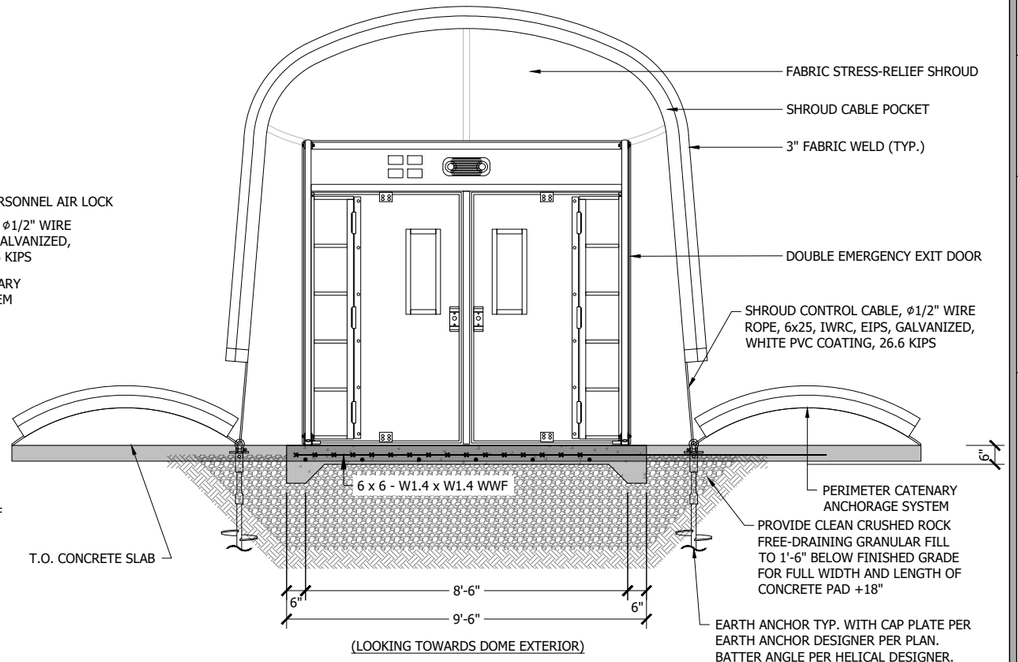
4 ENLARGED ELEVATION ATCOMBO DOOR

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



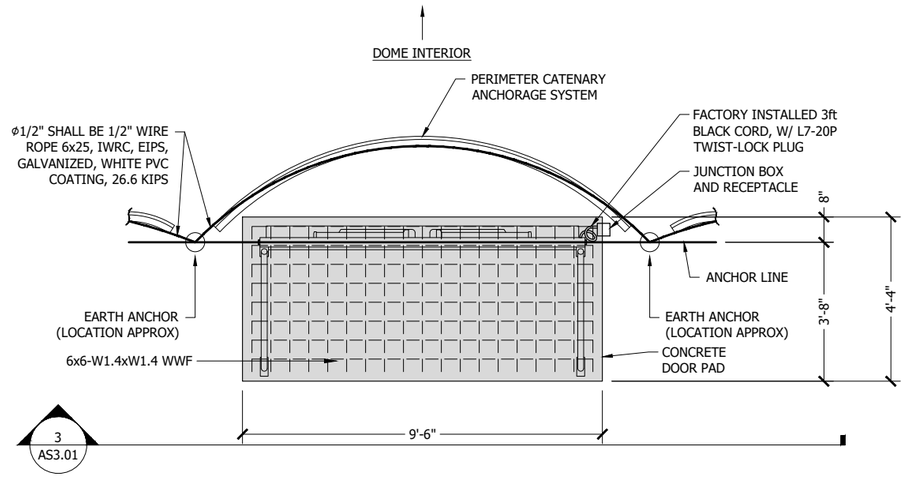
2 ENLARGED SHROUD ANCHOR PLAN AT COMBO DOOR

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



3 ENLARGED ELEVATION AT DOUBLE EMERGENCY EXIT DOOR

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



1 ENLARGED SHROUD ANCHOR PLAN AT DOUBLE EMERGENCY EXIT DOOR

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

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SUBMITTALS / REVISIONS

PROJECT NO:
A10396

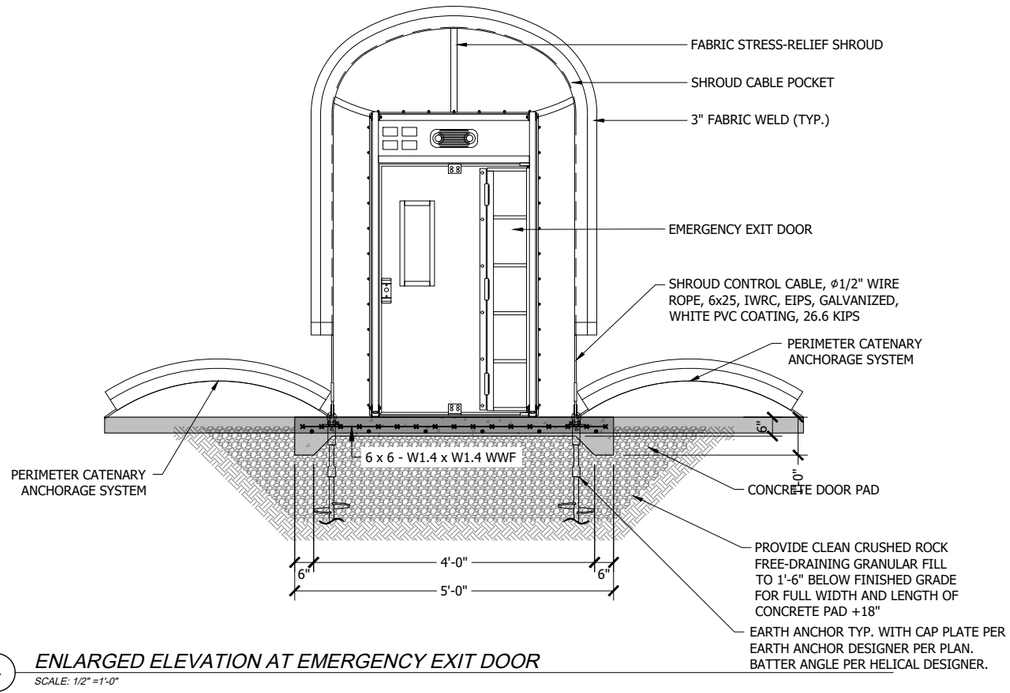
PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
AS NOTED

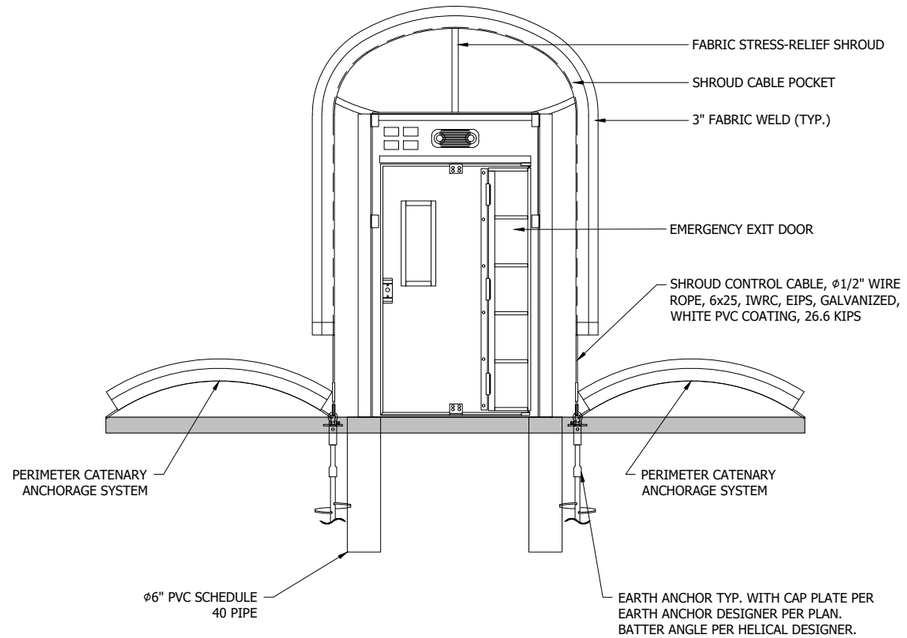
0

DRAWING TITLE:
ENLARGED ANCHORAGE DETAILS AT MAIN COMBO AND DOUBLE EXIT DOOR SHROUDS

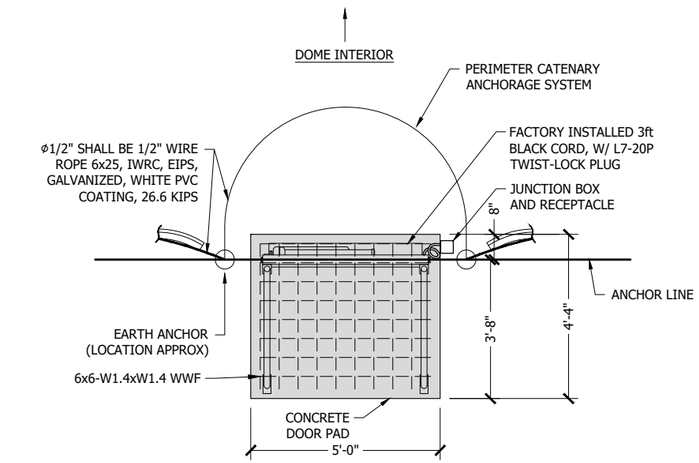
SHEET:
AS3.01



4 *ENLARGED ELEVATION AT EMERGENCY EXIT DOOR*
SCALE: 1/2" =1'-0"

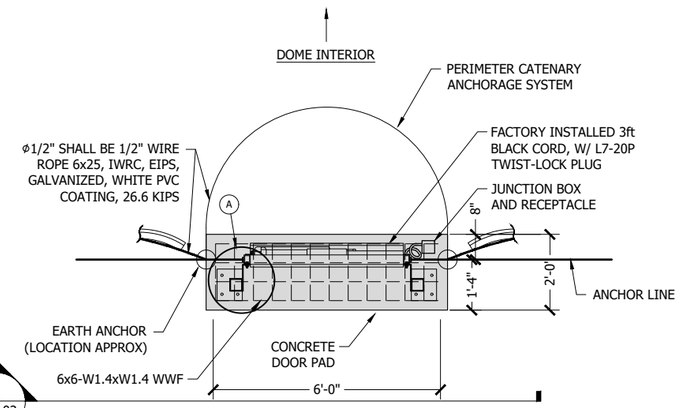


3 *ENLARGED ELEVATION AT EMERGENCY EXIT DOOR*
SCALE: 1/2" =1'-0"



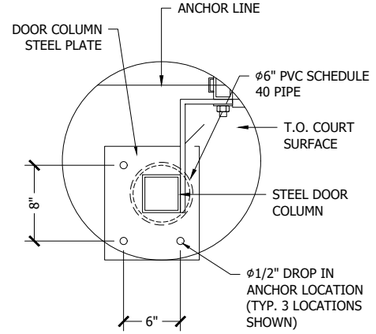
4
AS3.02

2 *ENLARGED SHROUD ANCHOR PLAN AT EMERGENCY EXIT DOOR*
SCALE: 1/2" =1'-0"

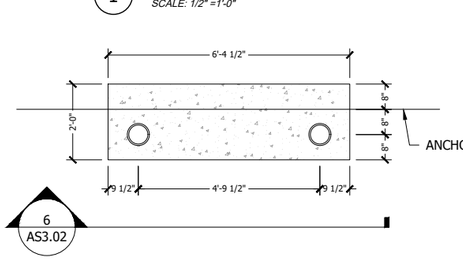


3
AS3.02

1 *ENLARGED SHROUD ANCHOR PLAN AT EMERGENCY EXIT DOOR*
SCALE: 1/2" =1'-0"

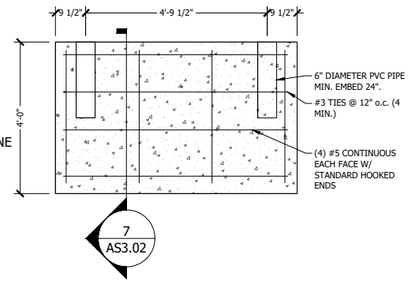


ENLARGED DETAIL 'A'



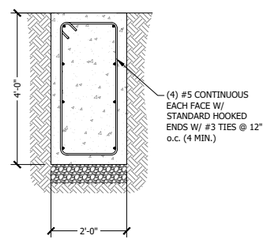
6
AS3.02

5 *DOOR COLUMN PAD PLAN VIEW*
SCALE: 1/2" =1'-0"



7
AS3.02

6 *DOOR COLUMN ELEVATION VIEW*
SCALE: 1/2" =1'-0"



7 *CUT VIEW - FOUNDATION*
SCALE: 1/2" =1'-0"

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SUBMITTALS / REVISIONS

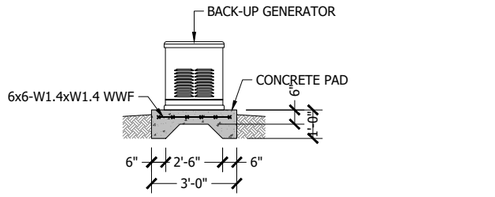
PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

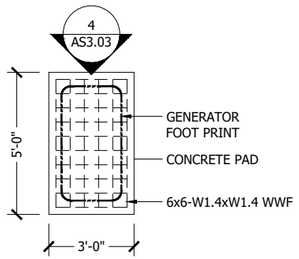
SCALE:
ANSI-B SIZE: 1/4"=1'-0"
ANSI-D SIZE: 1/2"=1'-0"
1' 4'
0
6" 2' 6'

DRAWING TITLE:
ENLARGED ANCHORAGE DETAILS AT EXIT DOOR SHROUDS

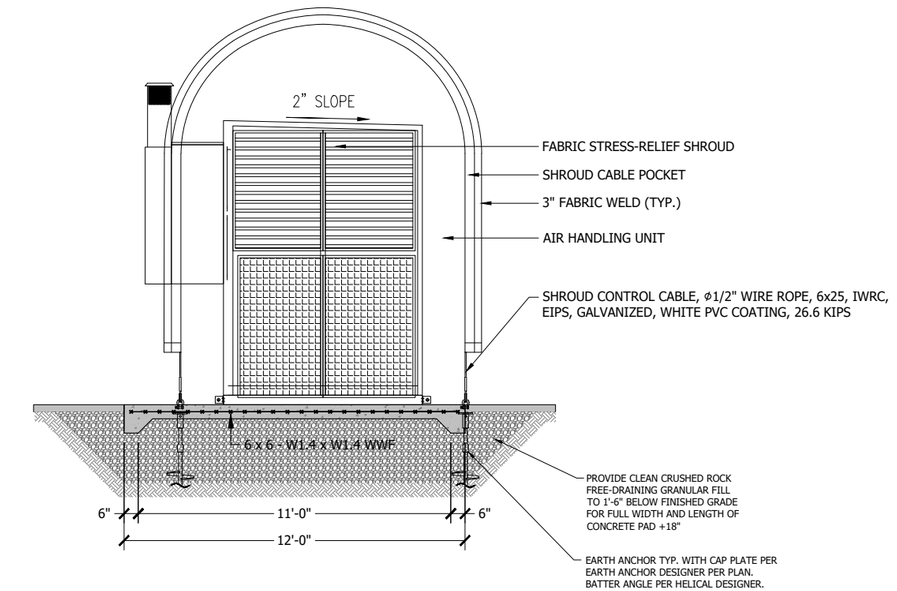
SHEET:
AS3.02



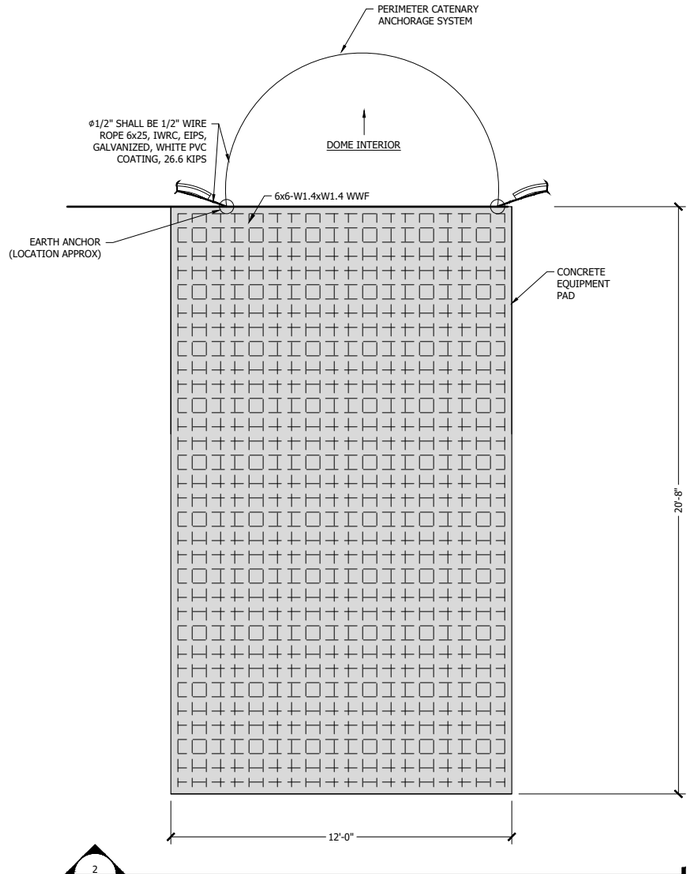
4 *ENLARGED ELEVATION AT GENERATOR*
SCALE: 1/2" = 1'-0"



3 *ENLARGED PLAN AT GENERATOR*
SCALE: 1/2" = 1'-0"



2 *ELEVATION VIEW SHROUD ANCHOR PLAN AT AIR HANDLING UNIT*
SCALE: 1/2" =1'-0"



1 *ENLARGED SHROUD ANCHOR PLAN AT AIR HANDLING UNIT*
SCALE: 1/2" =1'-0"

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PROJECT NO:
A10396

PROJECT:
MERCER ISLAND COUNTRY CLUB
4 COURT TENNIS DOME

SCALE:
ANSI-B SIZE: 1/4"=1'-0"
ANSI-D SIZE: 1/2"=1'-0"
0 1' 4'
6" 2' 6'

DRAWING TITLE:
ENLARGED ANCHORAGE DETAILS AT AIR HANDLING UNIT SHROUDS

SHEET:
AS3.03

SECTION 30, TWP. 24 N., RGE. 5 E., W.M.

MERCER ISLAND COUNTRY CLUB
TENNIS COURT IMPROVEMENT
CIVIL PLANS

LEGEND

STORM LEGEND

- STORM PIPE
- STORM STRUCTURE
- STORM SERVICE
- STORM PIPE FLOW ARROW
- STORM POND BOTTOM
- STORM POND TOP
- STORM POND WATER LEVEL
- STORM VAULT EXTERIOR WALL
- STORM VAULT INTERIOR WALL
- STORM VAULT WATER LEVEL
- STORM EASEMENT
- STORM BIO SWALES
- STORM BIO SWALES PATTERN
- STORM TEXT
- EXISTING STORM PIPE
- EXISTING STORM PROFILE
- EXISTING STORM TEXT
- RIPRAP

ROAD LEGEND

- CURB LINES
- GUTTER LINES
- ASPHALT ROAD
- ASPHALT ROAD PATTERN
- SIDEWALK
- SIDEWALK PATTERN
- DRIVEWAY
- DRIVEWAY PATTERN
- GRAVEL
- GRAVEL PATTERN
- HANDICAP RAMP
- HANDICAP RAMP PATTERN
- ROAD MARKINGS
- SAWCUT
- OVERLAY
- ROAD EASEMENT

SEWER LEGEND

- SEWER PIPE
- SEWER STRUCTURE
- SEWER SERVICE
- SEWER PIPE FLOW ARROW
- SEWER EASEMENT
- EXISTING SEWER PIPE
- EXISTING SEWER PIPE PROFILE
- EXISTING SEWER TEXT

SITE LEGEND

- TRAIL LINES
- TRAIL PATTERN
- PATH LINES
- PATH PATTERN
- SITE CONCRETE LINES
- SITE CONCRETE PATTERN
- SITE ROCK WALL
- SITE BLOCK WALL
- WOOD FENCE
- METAL FENCE
- WETLAND
- WETLAND BUFFER
- STEEP SLOPE
- STEEP SLOPE BUFFER
- STREET LIGHT
- MAIL BOX
- SIGNS

WATER LEGEND

- WATER MAIN
- WATER FITTING
- FIRE HYDRANT
- WATER METER
- FIRE DEPARTMENT CONNECTION
- POST VALVE INDICATOR
- WATER EASEMENT
- EXISTING WATER PIPE
- EXISTING WATER PROFILE
- EXISTING WATER TEXT

SURFACE LEGEND

- EXISTING GROUND SURFACE TEXT
- EXISTING GROUND CONTOUR MINR
- FINISH GRADE SURFACE TEXT
- FINISH GRADE CONTOUR MAJR
- FINISH GRADE CONTOUR MINR
- FINISH GRADE DAYLIGHT

EROSION LEGEND

- CONSTRUCTION ENTRANCE
- CONSTRUCTION ENTRANCE GRAVEL
- CLEARING LIMITS LINE
- CLEARING LIMITS LINE
- TEMPORARY PIPE
- SILT FENCE
- TREE RETENTION FENCE
- SWALES
- CONSTRUCTION FENCE
- ROCK CHECK DAM
- INLET PROTECTION
- RIP RAP
- STAND PIPE
- SLOPE DAGGER

VERTICAL DATUM

NAVD 88

BENCHMARK

SW UPPER HYDRANT FLANGE BOLT ON HYDRANT AT THE NW CORNER OF THIS PARCEL
ELEVATION: 512.69

BASIS OF BEARING

CITY OF BELLEVUE #218
CASED MONUMENT INTERSECTION NE. 60TH STREET AND 130TH AVENUE NE
ELEVATION: 490.48

LEGAL DESCRIPTION

LOT 9, SILVER SPURS RANCH, NO.2, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 69 OF PLATS, PAGE 88, IN KING COUNTY, WASHINGTON:

TOGETHER WITH THAT PORTION OF VACATED 126TH AVENUE NORTHEAST WHICH ATTACHED BY OPERATOIN OF LAW

SITE
NTS

IMPERVIOUS COVERAGE

EXISTING SITE HAS OVER 35% IMPERVIOUS COVERAGE

NEW IMPERVIOUS SURFACE:	40 SF
REPLACED IMPERVIOUS SURFACE:	1,408 SF
TOTAL	1,448 SF NEW+REPLACED IMPERVIOUS

SHEET INDEX

CIVIL PLANS

OWNER/APPLICANT

MERCER ISLAND COUNTRY CLUB
8700 SE 71ST ST
MERCER ISLAND, WA 98040
CONTACT: DAN NORDALE
PH: (206) 395-3687

CIVIL ENGINEER/SURVEYOR

CORE DESIGN, INC
14711 NE 29TH PLACE, SUITE 101
BELLEVUE, WASHINGTON 98007
CONTACT: MICHAEL A. WOODY, P.E. (ENGINEER)
GLENN R. SPRAGUE, P.L.S. (SURVEYOR)
PH: (425) 885-7877

ARCHITECT

ARIZON BUILDING SYSTEMS
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ST LOUIS, MO, 63043

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ENGINEERING • PLANNING • SURVEYING
12100 NE 195th St, Suite 300
Bothell, Washington 98011
425.885.7877 Fax 425.885.7963

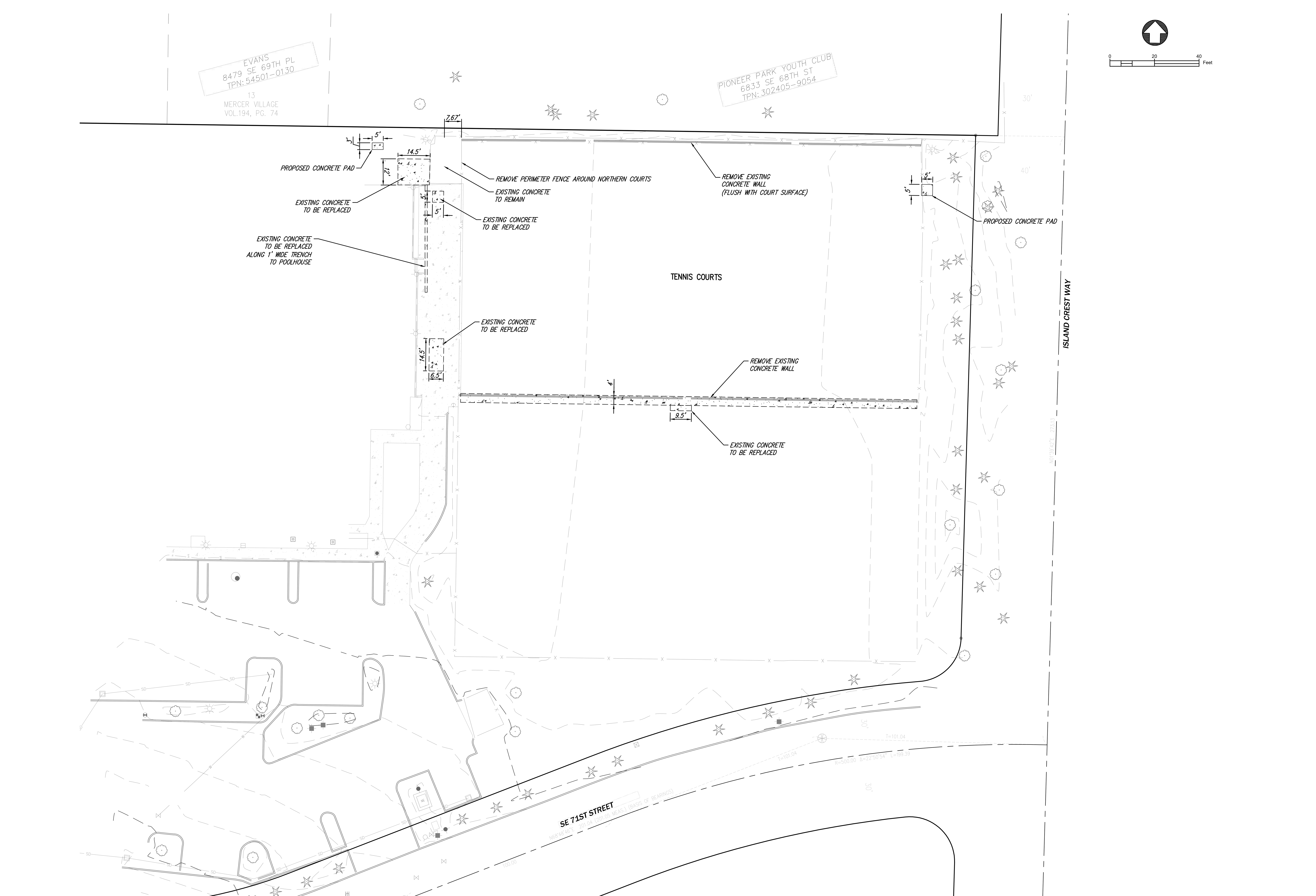
NO.	REVISIONS	DATE

COVER
MERCER ISLAND CC
8700 SE 71ST STREET
MERCER ISLAND, WA 98040

DATE SEE STAMP DATE
DESIGNED FLAVIO BAINOTTI
DRAWN MATT BISHOP
APPROVED
PROJECT MANAGER

SHEET 1 OF 5
PROJECT NUMBER 20033

SECTION 30, TWP. 24 N., RGE. 5 E., W.M.



REVISIONS

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CORE DESIGN

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ENGINEERING · PLANNING · SURVEYING

EX. CONDITIONS, DEMO, FOUNDATION
MERCER ISLAND CC

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MERCER ISLAND, WA 98040

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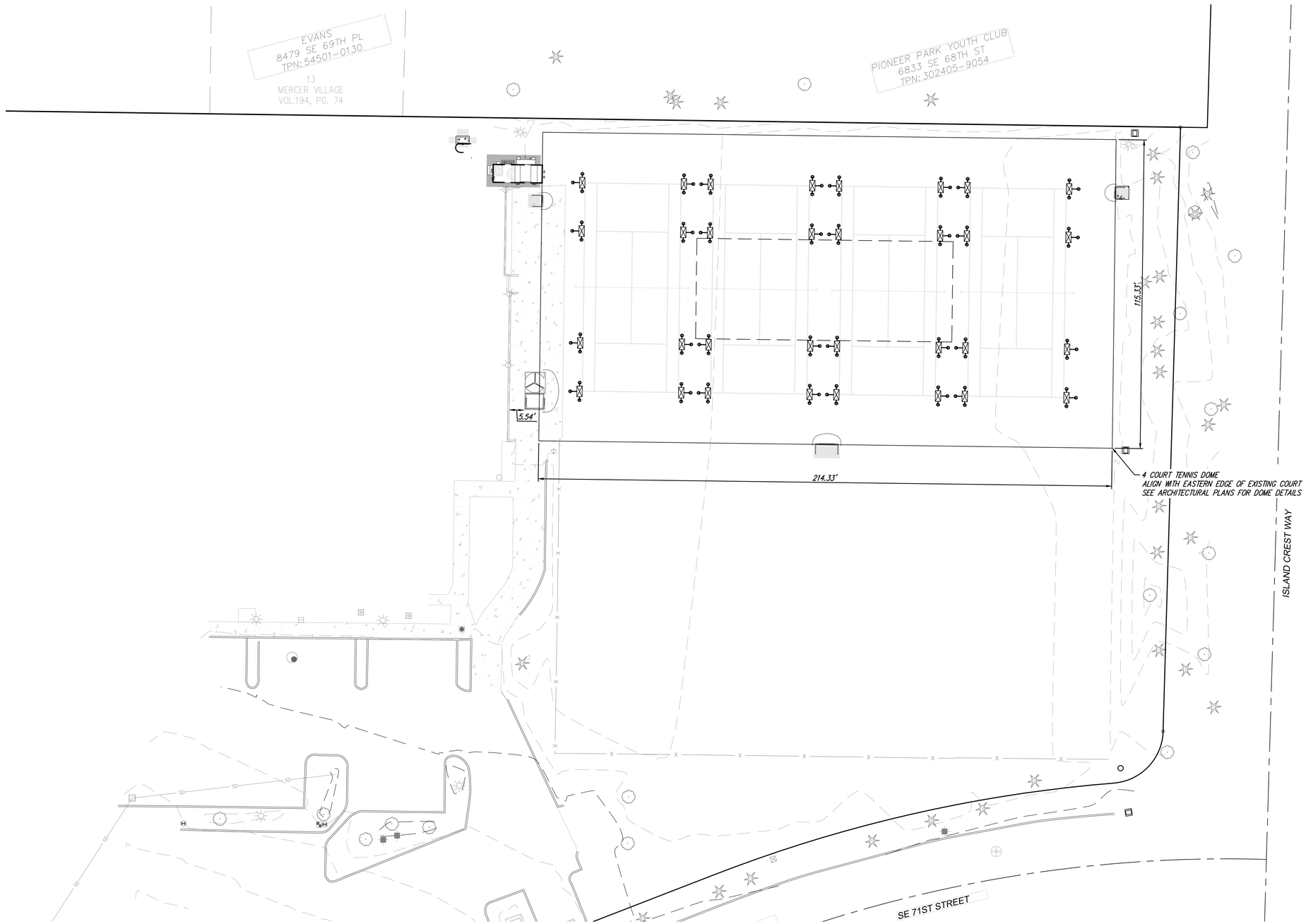
DRAWN	MATT BISHOP
APPROVED	
PROJECT MANAGER	

SHEET	OF
2	5

PROJECT NUMBER
20033

SECTION 30, TWP. 24 N., RGE. 5 E., W.M.



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Bothell, Washington 98011
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NO.	REVISIONS	DATE

4 COURT TENNIS DOME LAYOUT
MERCER ISLAND CC

8700 SE 71ST STREET
MERCER ISLAND, WA 98040

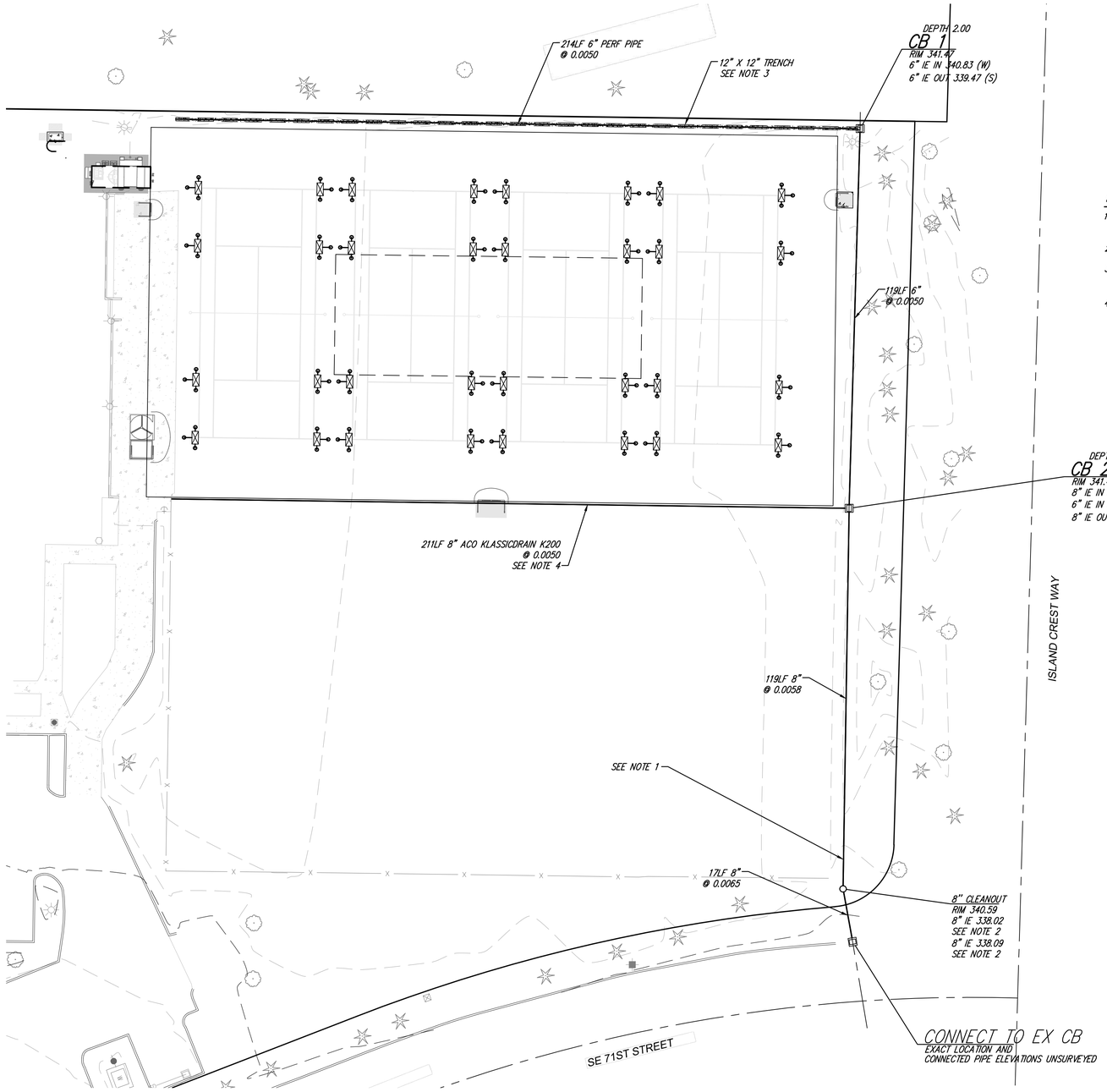
DATE	SEE STAMP DATE
DESIGNED	FLAVIO BAINOTTI
DRAWN	MATT BISHOP
APPROVED	

PROJECT MANAGER

SHEET	OF
3	5

PROJECT NUMBER
20033

SECTION 30, TWP. 24 N., RGE. 5 E., W.M.



NOTES

1. CONTRACTOR TO HAND DIG NEAR EXISTING BLOCK WALL AND INSTALL A 12" SLEEVE FOR STORM PIPE INSTALLATION.
2. 8" CLEANOUT TO BE LOCATED NORTH OF THE EXISTING BLOCK WALL.
3. AMENDED SOIL MIX FOR AIDING INFILTRATION TO BE HIGHLY PERMEABLE SOIL (12IN/HR).
4. DRAIN TO BE PLACED APPROXIMATELY 6" SOUTH OF DOME ANCHOR LINE.

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STORM DRAIN LAYOUT
MERCER ISLAND CC
8700 SE 71ST STREET
MERCER ISLAND, WA 98040

DATE	SEE STAMP DATE
DESIGNED	FLAVIO BAINOTTI
DRAWN	MATT BISHOP
APPROVED	
PROJECT MANAGER	

SHEET	OF
4	5

PROJECT NUMBER
20033

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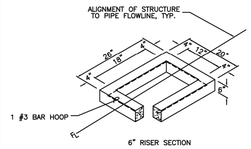
LAST REVISED:01/08/15



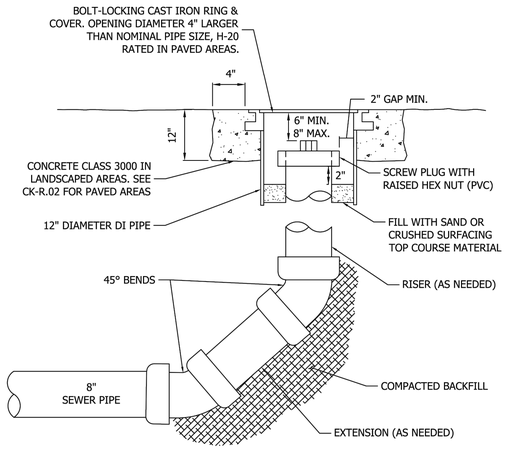
NOTES:

1. ALL REINFORCED CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.
2. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. ALL PIPE SHALL BE INSTALLED IN FACTORY PROVIDED KNOCKOUTS. UNUSED KNOCKOUTS NEED NOT BE GROUTED IF WALL IS LEFT INTACT.
3. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAM. PLUS CATCH BASIN WALL THICKNESS.
4. THE MAX. DEPTH FROM THE FINISHED GRADE TO THE PIPE INVERT IS 5'-0".
5. CATCH BASIN FRAME AND GRATE SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT WITH ANY COVER POSITION.
6. CHANNELLING OF ON-SITE CATCH BASINS MAY BE REQUIRED FOR PRIVATE STORM DRAINAGE CONVEYANCE SYSTEMS.

NOT TO SCALE

CITY OF KIRKLAND	
PLAN NO. CK-D.05A	
CITY OF KIRKLAND WASHINGTON	YARD DRAIN TYPE 40 FOR PRIVATE SYSTEMS

LAST REVISED: 07/2021



NOTES:

1. CAST IRON COVER SHALL READ EITHER "STORM" OR "DRAIN".
2. LOCKING BOLTS FOR COVER SHALL BE 5/8" -11 NC STAINLESS STEEL TYPE 304 SOCKET (ALLEN) HEAD BOLTS, 2 INCHES LONG.
3. ALL FITTINGS AND PIPE SHALL BE GASKETED (NOT GLUED). PIPE AND FITTING MATERIAL SHALL BE SDR 35.
4. WYE CONFIGURATION ONLY ALLOWED FOR PRIVATELY MAINTAINED SYSTEMS.

CITY OF KIRKLAND	
PLAN NO. CK - D.05B	
CITY OF KIRKLAND WASHINGTON	CLEANOUT

NO.	REVISIONS	DATE

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DETAILS
MERCER ISLAND CC

8700 SE 71ST STREET
MERCER ISLAND, WA 98040

DATE SEE STAMP DATE
DESIGNED FLAVIO BAINOTTI
DRAWN MATT BISHOP
APPROVED
PROJECT MANAGER

SHEET 5 OF 5

PROJECT NUMBER 20033