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7KH Design Standards ZHUH GHYHORSHG WR ZRUN LQ FRQMXQFWLRQ ZLWK WKH RQJRLQJ 3UR
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Standards RQO\ DQG ZLOO QRW DGGUHVV DQ\ YDULDQFHV RU H[FHSWLRQV WKDW VKRXOG
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7 K H Design Standards ZHUH GHYHORSHG WR ZRUN LQ FRQM6XQFWLRQ ZLWK WKH UHTXLUHP

3OHDVH FRPSOHWHKDVVRFLDWHFWQRZQLWKQW VWDQGWKXE'RUHEWRUVWRUX'HWLRQ ,QFOXGH DWWDFKPHQWV DV RQSHFHUDQGUWILRPHSTUXHHYLWZ RI\WXHDUKQ XSEGDLWHGLQHUVLRQ RI D SUHYLRXVO\ SXEOLVKHG GHSDUWPHQWDQGWDQGG DSUDGH DVHHFUHQFHG\ LQQGWKHDWH WKH FK PDGH WR WKH XSGDWHG YHUVLRQ

7KH UHTXHVWHG DesignLStandaRdsWZRLWKEH UHYLHZHGLEW\WKH BQLVHJDQGWDLRQVLQWR WKH V

NAME & PROJECT CODE #

Dean of Students, Associate Vice President SEES	Don Stansberry
Director for Residence Education Housing & Residence Life	Brittany Blount

Asstant to the Dean of Students - Housing and Residence Life	Susan Boyd	s1boyd@odu.edu
Interim Associate Dean of Students	Bridget Nemeth	bnemeth@odu.edu
Athletics		

NAME & PROJECT CODE #

Instructions:
ODU PM to fill in the Submittal Phase and dates.
ODU will collect all internal review comments and provide these to the A/E.
A/E will respond to the comments AND if applicable, will indicate if the comment impacts cost or project schedule.
ODU will approve or disapprove any comments that impact cost or schedule.
ODU will attach the completed form to Appendix P - Design Phase Approvals

Submittal Phase:	0
Dates:	
Submittal	1/0/1900
Comments	
Response To Comments	
A/E of Record	0

PAGE/SHEET #	REVIEWER	ODU COMMENT	A/E RESPONSE	SCHEDULE COST IMPACT	ODU DISPOSITION	ODU BACK CHECK

OLD DOMINION UNIVERSITY
Summary of Value Engineering Recommendations

Project Code:
Agency Name: Old Dominion University
Project Name:

Date: 7/09/2018

Action Codes
A = Accept VE recommendation, without modification
R = Reject VE recommendation
P = Pending further Information

Item	Description	Estimated Potential Effect on Item Cost	Stakeholder Disposition A/E	D&C	FM	User	Stakeholder Comments	Final Action	Status Accepted	Rejected	Pending	Remarks
1	EXAMPLE: Use CMU in lieu of cast-in-place concrete walls	$ 155,000	A	A	A	A	A/E - Will Require structural redesign. Add Service and potential schedule delay. D&C - no issues FM - no issues CMaR - CMU will be faster to construct	A	$ 155,000	$ 0	$ 0	Retain concrete walls in areas requiring retainage.
2	EXAMPLE: Change ceramic tile	$ 25,000	R	A	A	A	A/E - Less recycled content, possible impact to LEED	R	$ 0	$ 25,000	$ 0	
3	EXAMPLE: Change type of Brick proposed	$ 45,000	P	P	P	A	D&C - Needs approval by COO	P	$ 0	$ 0	$ 45,000	
4									$ 0	$ 0	$ 0	
	Total of all Proposed Value Engineering Items	$ 225,000							$ 155,000 Total Accepted	$ 25,000 Total Rejected	$ 45,000 Total Pending	

Construction Budget	2,000,000
Current Estimate	2,500,000
Under (Over) Budget	
Accepted VE	$ 155,000
Pending VE	$ 45,000
	$ 200,000
Remaining Value to Cut (Accepted + Pending)	$ 300,000
Remaining Value to Cut (Accepted only)	$ 345,000

This is an example of the VE format used at ODU. It is a modified version of the form required by BCOM. The A/E and or CMaR should ask the ODU PM for the Excel verson for use.

Project Name | Project Number Date

Original Building Classification Updated Building Classification (if Applicable)

Use Group

Construction Type

Building Code

Year of Construction

Date of Project Specific Annual Permit Discussion:

Attendees:

Attachments:

Annual Permit - Appendix P of the CPSM

Character of work as described below would require construction documents prepared under the supervision of and signed and sealed by a registered Architect or Engineer and submitted for review to the State Building Official.

Projects involving the following:

Annual Permit Requirement	Specific Project Response
Construction of structure(s) and site improvements, including new structures that contain occupieable space.	None or to a different use Group.
Removal or cutting a structural beam or bearing support.	
Addition, removal, alteration, or relocation of all, or a part of, a Means of Egress, Exit, or Fire Rated Assembly	
Addition, removal, replacement, alteration, or relocation of Elevators and Conveying Systems.	
Addition of or removal of an HVAC, Electrical, Plumbing, Gas Piping, Fire Sprinkler, Fire Suppression, and/or Fire Alarm System.	
Mechanical: alteration or relocation of the quantity or source of ventilation, exhaust, or combustion air; alteration or relocation of boilers, water heaters, pressure vessels, or refrigeration equipment; change in refrigerant classification for replacement in kind of refrigeration equipment.	
Electrical: alteration or relocation of circuits greater than 1 phase, 240 volt, 50 amp - or – 1 phase, 277 volt, 30 amp	
Plumbing: alteration or relocation of plumbing fixtures, water supply, water distribution, sanitary waste, special waste, or storm drainage.	
Gas Piping: alteration or relocation of fuel gas or fuel oil piping systems.	
Roof replacement projects where the work is the replacement of more than 25 percent of an existing roof covering.	
Temporary structures.	

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IMPORTANT NOTE: If there are products spec

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$//)XOO VL]HFUXVWDQGHQGDUEDSLRH TXDOLFWQXQRI LDQVRWDOOHG IRU HDFK VL]H LQGLFDWHGKDEQXWHQR IHZHKEXLWWDLXQOQVLV HTXDO W SHUFHQW RI DPRXQWRLQVWDFK VL]H LEGLFDWHQWZERXW QRQLWZV

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BUILDING FACT SHEET

October 12, 2018

BUILDING No.: 0000

BUILDING NAME:

BUILDING ADDRESS: # Street, City, VA Zip

FAACS NUMBER: 2210127

PROJECT CODE: 00000-000 (Official Number excluding the 221)

SUBSTANTIAL COMPLETION DATE:

BUILDING OCCUPANCY TYPE:

CONSTRUCTION TYPE:

BUILDING VALUE: Final Construction Cost

FF&E: Final FF&E Cost

DESIGN LOADS:

Seismic:
Floor:
Wind:

OCCUPANT LOAD: Total Building Design Occupant Load

FIRE SAFETY: Sprinkler System Type

NUMBER of FLOORS: 3

BUILDING FOOT PRINT (GSF) Total GSF
Building Footprint GSF includes all exterior occupiab le spaces, including unenclosed space such as dinning terraces or loading docks

GROSS SQUARE FOOTAGE (gsf): Total GSF
Level 1: GSF
Level 2: GSF
Level 3: GSF

GSF is taken from the outside side face of exterior wall, with cut outs removed (open to below areas).

ASSIGNABLE SQUARE FOOTAGE (asf): Total ASF
Level 1: ASF
Level 2: ASF
Level 3: ASF

ASF excludes all rooms numbered in t he 9000's, i.e. non-departmental space

USABLE SQUARE FOOTAGE (sf): Total SF

HISTORY:

Substantial completion and o ccupancy of building in YYYY.

Addition

(xxx)

Renovation

(xxx)

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5RRP 1XPEHUL5RRp€P ?
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R EH WUDFNHGQIRUVWQLWH UHSRUWLQJ 6HH

33(1',;$(±),&0&2'(6 IRU UHIHUHQFH 7KH),&
FRGHV DUH EURNHQ GRZQ LQWR WZR PDLQ FDWHJRULHV. WKH VHFRQG QXPEHULQJ WKHLVHLDQQEL
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D 5RRP 7\SHV 7KHVHVDURHQWWZR WKH URRP QXPEHUV
L 7KRVH WQRWGHDQDFWXDO assignable to a user ³XVHUV´ LQFOXGH GHSDUWPHQWDO
DVVHPEO\ VSDFHV
LL 7KRVH WR building common area space or non-assignable space L H VWDLUV KDOOZD\V
YHVWLEXOHV HOHFWULFDO URRPV HWF
/ 5HVLGHQFH +DOOV
D)ROORZ WKH VDPH]DWQRQDQRUVVDQWEDOGDGHDGHPLFSW IRU WKH IROORZ
L 5RRP 1XPEHUVWDWKRXOGRU WR IORRU
LL (YHQ QXPEHUVRQVRQDHVDGHO REHWKH RSSRVLWHG RQQWLVWHQWO\ IORR
LLL :KHUH WKH EXGGHGLQHVQDWXUDODODUWZRH ZLQWKEFEDHVRXWR URRPV LQ
FOXVWHUV VXFK DWLGH DQGQ RQEH WKH RWKHU $OORZLQJ FOHD
VLPLODU WR D KRWHOWHPOGLWRRWKDQRUHEHUHDZLWKLQ WKH EXLOGLQJ
/ &RPSRVLWLRQ
D 7KH URRP QXPEHUDZRXU FKDUDFWHUVQRQHRUHFZLWKGHVLDO DOSKD FK
L ,Q WKH nonassignable to a user WKH ILUVW FKDUDFWHUWKDWRULQGLFDWHV WKH EXL
HWF building) common area space WKH ILUVW FKDUÁWRULQGLFDWHV WKH
DUHD LV SDUW RI WKH EXLOGLQJ FRPPRQ DUHD
LL 7KH VHFRQG FKXDUDFWHUZLOO EHUHDQZLFDWRQHLEXDOWGRE LDWLRQ
ZLWK WKH WKLUG DHQGV WRRXUWKDFKDUDFWP p0 VSÐZ WQJ WEW/68 p

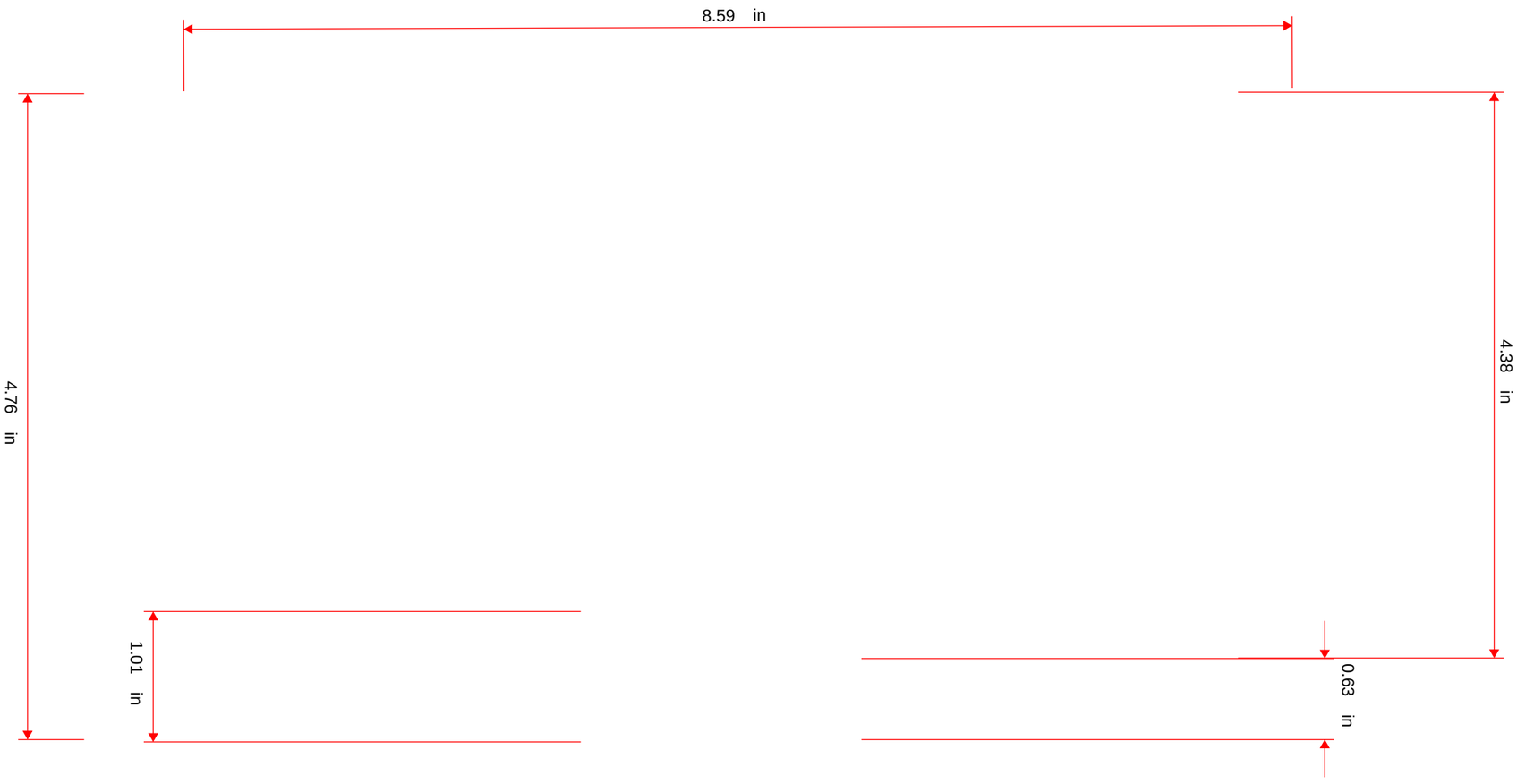
2/' '20,1,21 81,9(56,7< '(6,*1 67$1'$5'63(1',; / 5RRPH1XPQJ 3URFHGXUHV

2/' '20,1,21 81,9(56,7< '(6,*1 67$1'$5'6

ROOM NUMBERING PROCEDURES:
Room numbers shall be assigned according to A- Room Number Procedures and shall be complete and signed off on by ODU pr Preliminary Design Sub nittal

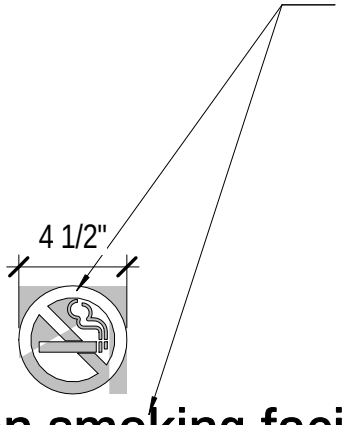
ROOM SIGNAGE PROCEDURES:
The A/E shall indicate, i Working Drawing Subr, the location of all signs. Standard room signs can be covered via a note, general graphic or schedule, but all other signage, suc as directories, overhead signs, wall mounted exit signage, evacuation signage, etc. shall be located in plan and shown on interior elevations when appropriate.

The A/E shall review the signage shop drawings & submittals during construction and return marked up copy to the University for final review and approval PRIOR to returning the submit to the contractor. Allow two weeks for the University Project Manager and University Departm Architect to process the submittal and return it to the A/E.



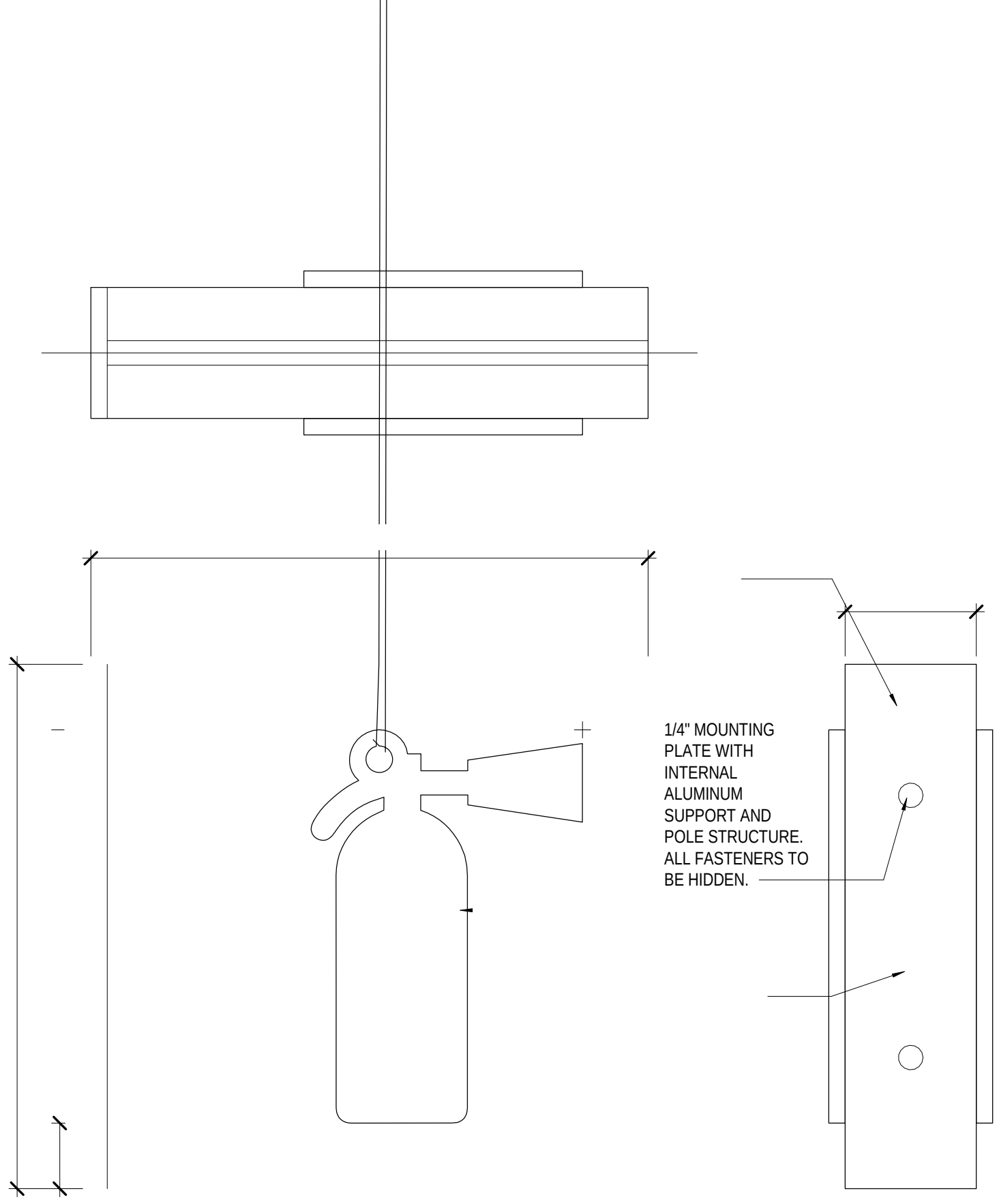
Rowmark 306 - Pearl Gray for Raised Letters

5.05 in
3.66 in
1.16 in

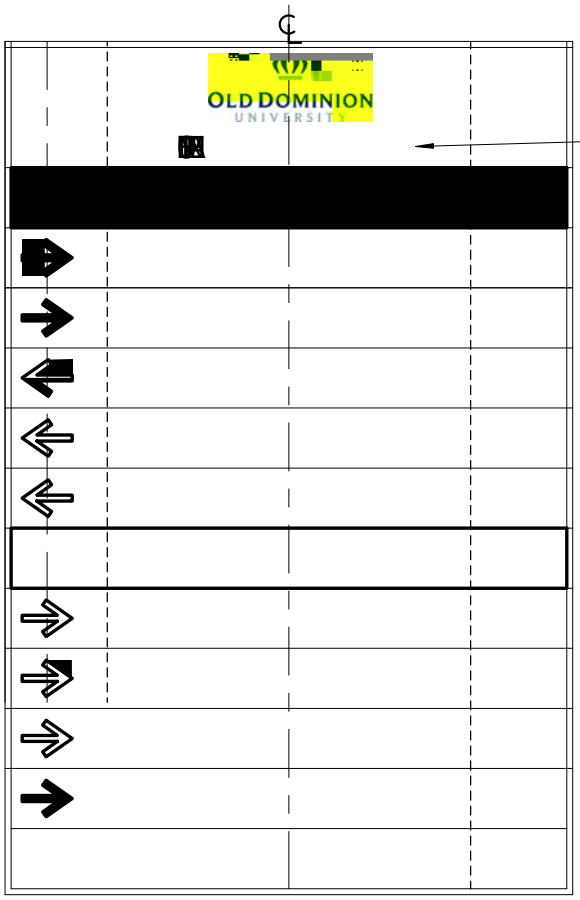


This is a non-smoking facility.
Smoking prohibited within 25 feet of the building

SIGN TYPE N
NO SMOKING DECAL



SIGN TYPE O
FIRE EXTINGUISHER
CONSTRUCTION
PAINTED WHITE
WITH CLEAR COAT
APPLIED

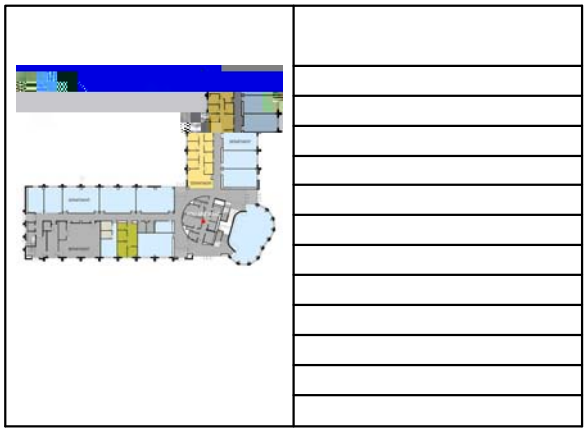


TREBUCHET MS;
PMS 540 ODU BLUE

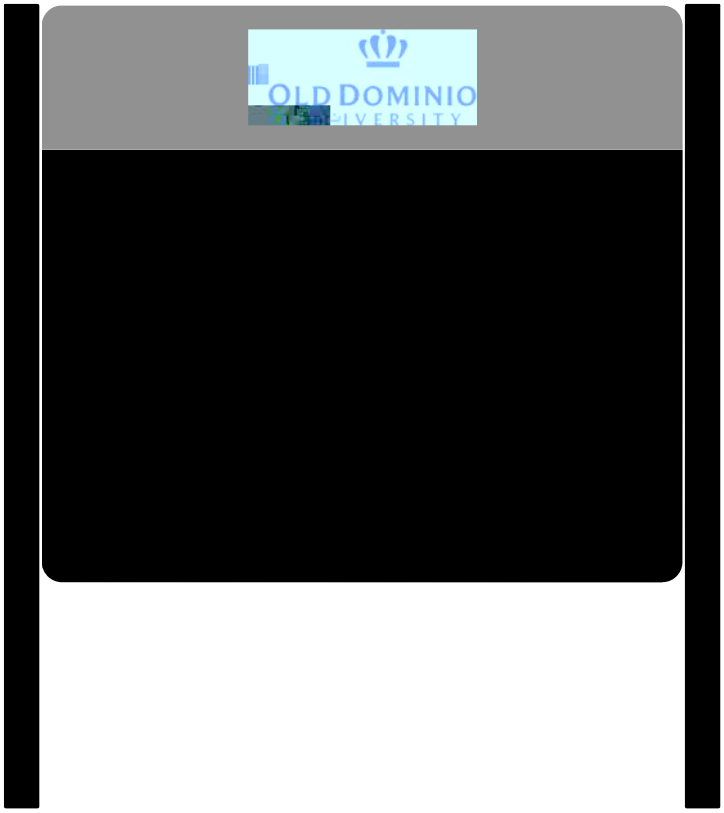
SIGN TYPE P
BUILDING DIRECTORIES

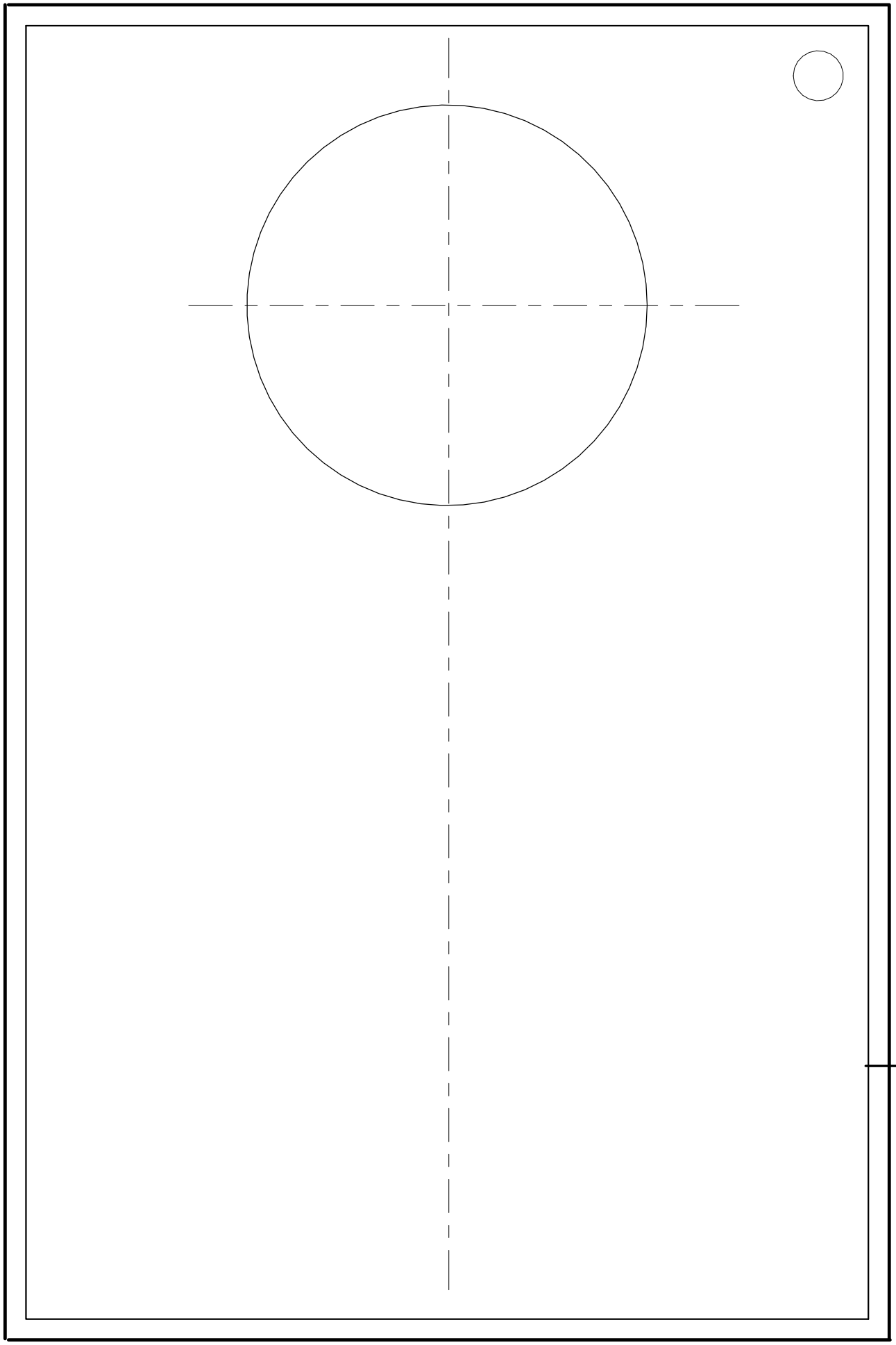
BASIS OF DESIGN

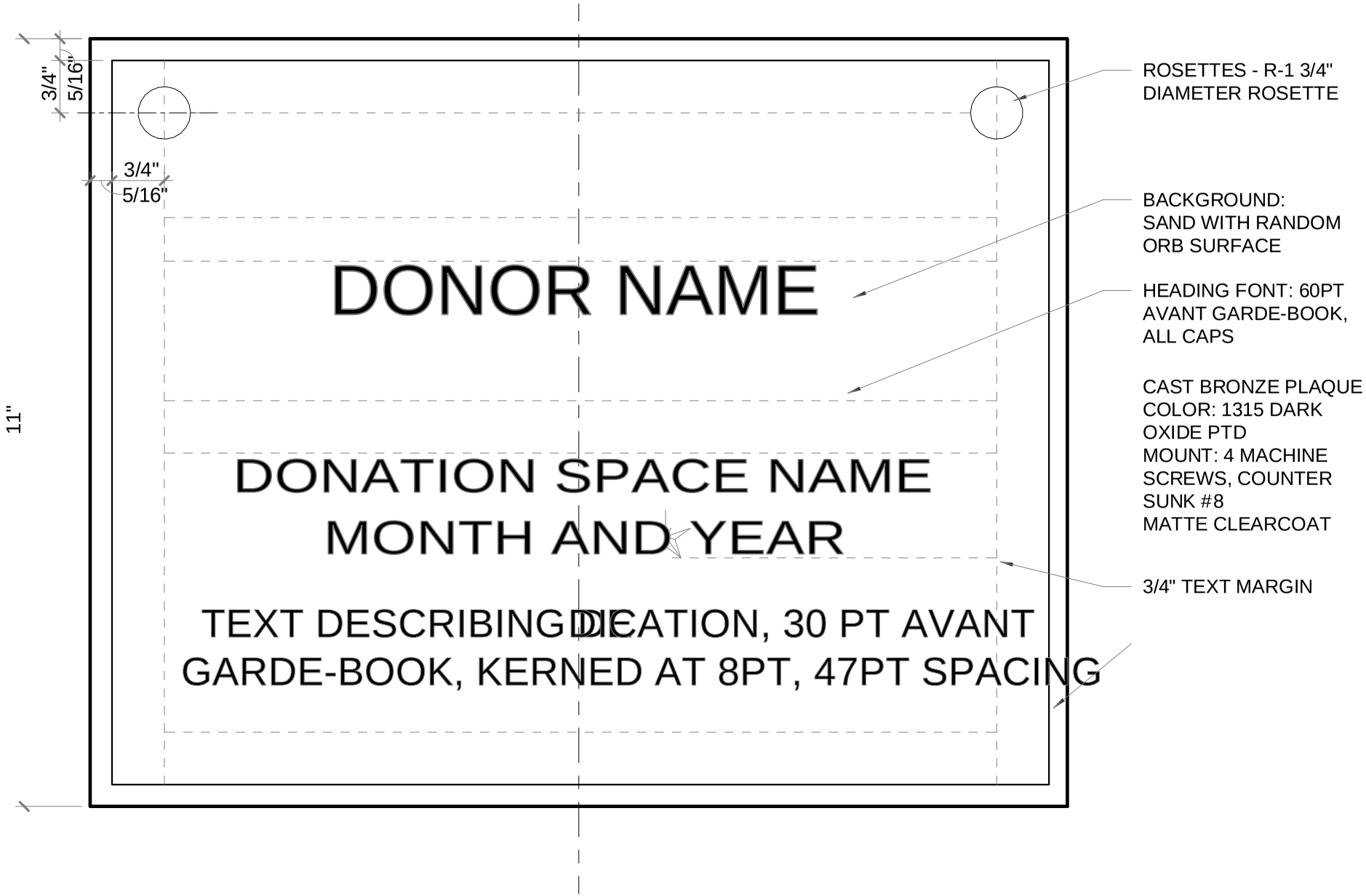
2 1/2" 5"

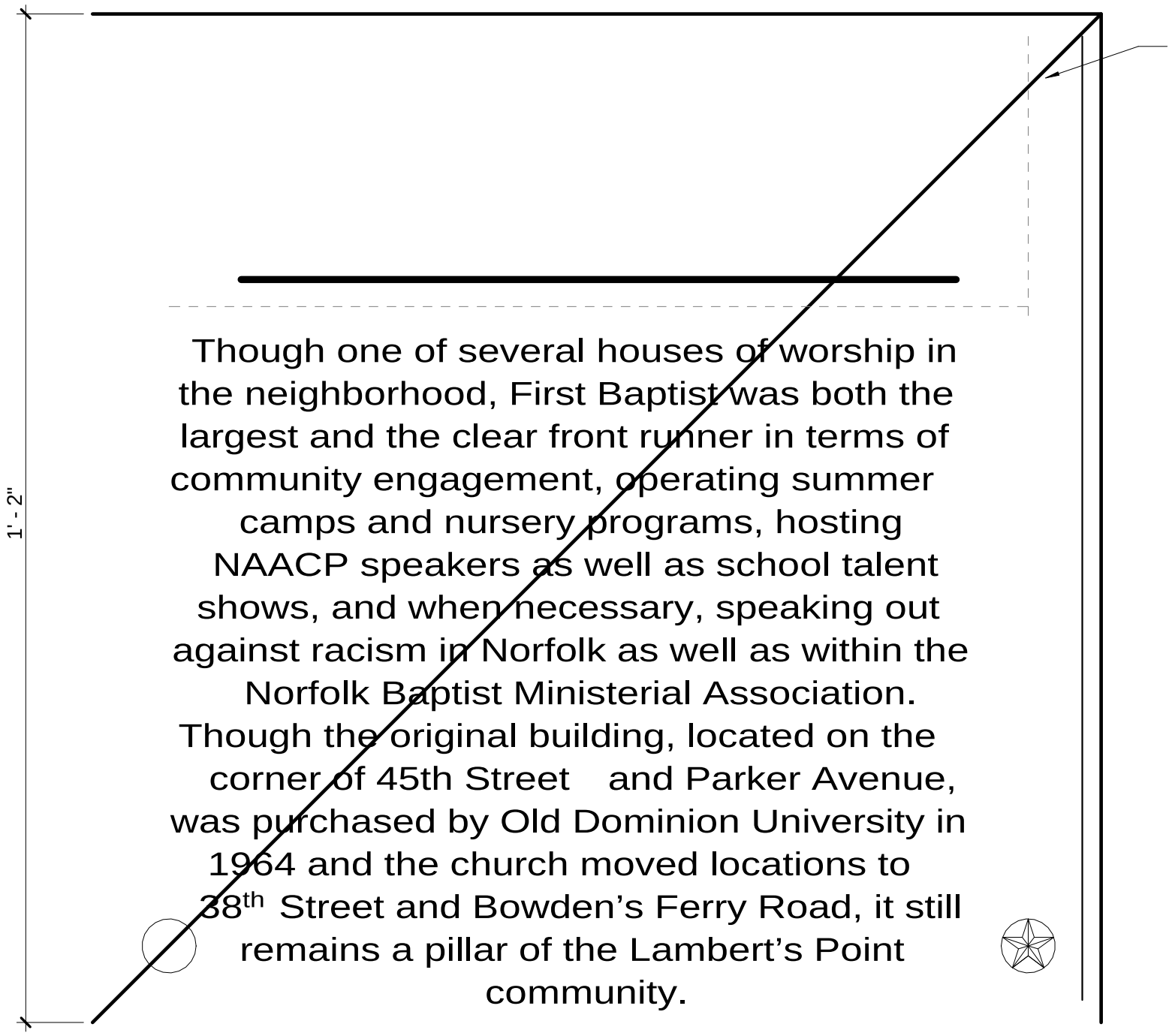


PROVIDE A GRAPHIC PLAN ADJACENT TO EACH DIRECTORY
LOCATE THE "YOU ARE HERE" POINT
IDENTIFY MAJOR DEPARTMENTS WITH TEXT AND COLOR
IDENTIFY RESTROOMS WITH AN ICON
IDENTIFY MAJOR SPACES
BE SURE TO ORIENT THE MAP BASED ON THE RELATIVE POSITION OF THE PLAN AT THE YOU ARE HERE POINT,
DO NOT DEFULAT TO PLAN NORTH

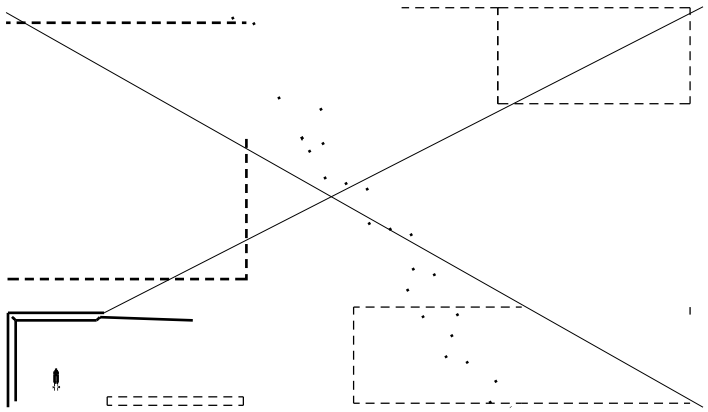

OLD DOMINIO
IVERSITY

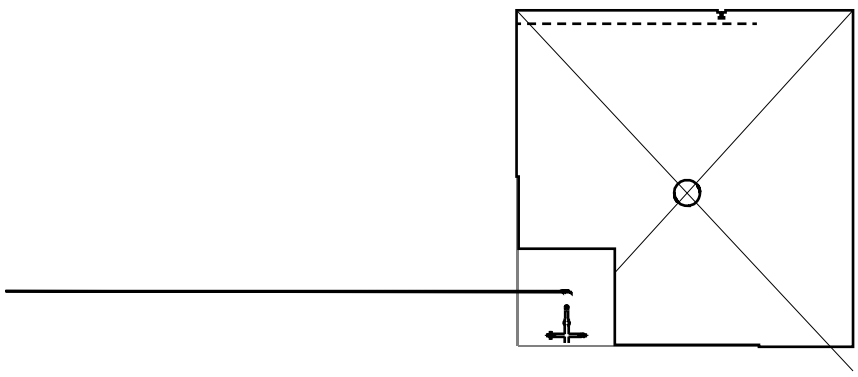


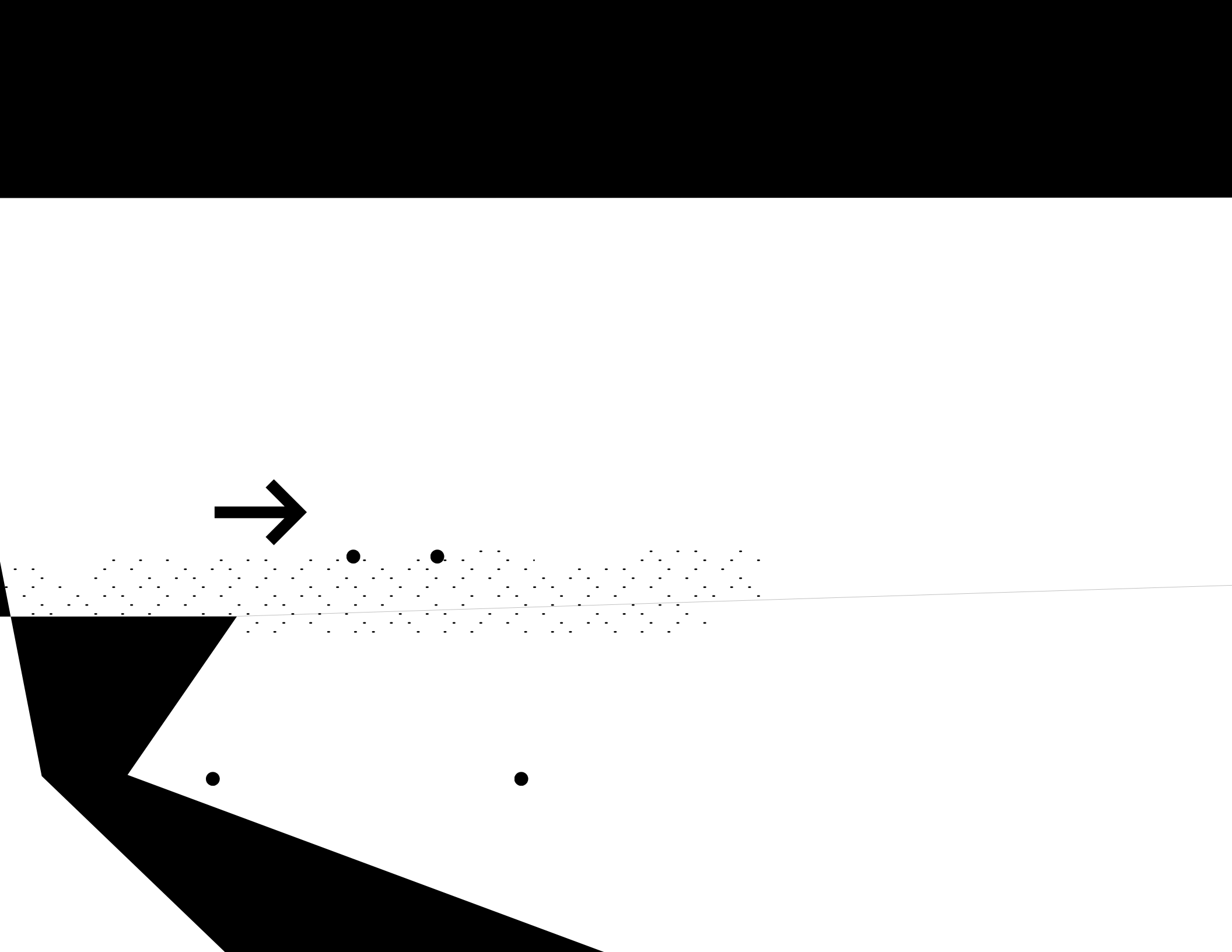

3/4"
5/16"
3/4"
5/16"
11"
DONOR NAME
DONATION SPACE NAME
MONTH AND YEAR
TEXT DESCRIBING DEDICATION, 30 PT AVANT GARDE-BOOK, KERNED AT 8PT, 47PT SPACING
ROSETTES - R-1 3/4" DIAMETER ROSETTE
BACKGROUND: SAND WITH RANDOM ORB SURFACE
HEADING FONT: 60PT AVANT GARDE-BOOK, ALL CAPS
CAST BRONZE PLAQUE
COLOR: 1315 DARK OXIDE PTD
MOUNT: 4 MACHINE SCREWS, COUNTER SUNK #8
MATTE CLEARCOAT
3/4" TEXT MARGIN



Though one of several houses of worship in the neighborhood, First Baptist was both the largest and the clear front runner in terms of community engagement, operating summer camps and nursery programs, hosting NAACP speakers as well as school talent shows, and when necessary, speaking out against racism in Norfolk as well as within the Norfolk Baptist Ministerial Association. Though the original building, located on the corner of 45th Street and Parker Avenue, was purchased by Old Dominion University in 1964 and the church moved locations to 38th Street and Bowden's Ferry Road, it still remains a pillar of the Lambert's Point community.







:$55$17< :25. 5(48(67)250

After project completion, there is a designated warranty period which typically begins at the date of substantial completion and runs for 12 months, during which time the general contractor will respond to issues related to the building, site and equipment. Warranty work does not negate the need for the building users and Facilities Management to preform regular maintenance. Use a separate form for each warranty item request.

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2'8 352-(&7 0$1$*(5

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68%&2175$&725 6,*1$785(_____ '$7(_____
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☐ :RUN 3UHIRUPHG LV $FFHSWDEOH ☐ $GGLWLRQDO :RUN LV 5HTXLUHG ,I FKHFNHG SOHDVH SURYLGH FRPPHQ
2:1(5 6,*1,785(_____ '$7(_____

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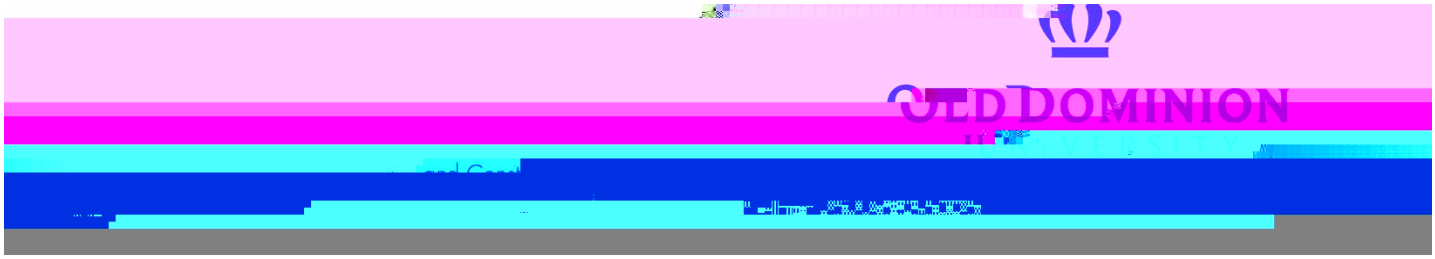

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October 12, 2018

x= evergreen foliage

Key	Botanical Name	Common Name	Plant Type	Light reqs.	Moisture	pH	Habit	Mature height
PA	Platanus x acerifolia 'Bloodgood'	London Planetree	tree, street	full sun to light shade	tolerates heat and drought	withstands high ph	open and widespread	70-100 ft. ht., 65-80 ft. spread
QP	Quercus phellos	Willow Oak	tree, street	full sun	moist well drained but is adaptable	acid or neutral	rounded crown	40-60 ft ht., 30-40 ft. spread
QL	Quercus laurifolia	Laurel Oak	tree, street	full sun	well drained	adaptable	Pyramidal-rounded	40-60 ft ht., 30-40 ft. spread
Ac	Amelanchier canadensis	Shadblow Serviceberry	tree, ornamental	full sun to part shade	wet to dry	adaptable	multi-stem	15-20 ft. ht. with variable spread.
Bn	Betula nigra 'Dura Heat'	River Birch	tree, ornamental	full sun to part shade	wet to dry	acid	multi-stemmed	40-70 ft ht. with comparable spread
Cb								

October 12, 2018

x= evergreen foliage

Key	Botanical Name	Common Name	Plant Type	Light reqs.	Moisture	pH	Habit	Mature height

October 12, 2018

3. Irrigation Documents
   A. Other documents included or related to this contract:
      1. Landscape Plans and Details
      2. Civil Plans and Details
      3. Building Plans and Details

2. Related Work
   A. Electrical stubout for irrigation controller.
   B. The irrigation system point of connection shall be coordinated with the mechanical/plumbing system. Pressure and flow information shall be field verified.

1. All work and materials shall be in full accordance with the current building codes, rules and regulations of the state of Virginia, including but not limited to the Virginia Construction Code, and the International Building Code (IBC), OSHA ; International Energy Efficiency Code, International Plumbing Code and other applicable laws or regulations, including any local Codes.

E. Testing
   1. Preliminary review of completed installation will be made prior to backfilling of trenches and then again during hydrostatic testing.
   2. Final review shall be made in conjunction with the final review of lawn, shrub and tree planting.
   3. The review and testing shall be scheduled with the Grounds Manager at least 48 hours prior to testing.

F. Permits and Inspections
   1. Any permits for the installation or construction of any work included under this contract, which are required by any of the legally constituted authorities having jurisdiction, shall be obtained and paid for by the Contractor, each at the proper time.
   2. The Contractor shall also arrange for and pay all costs in connection with any inspection and examination required by these authorities.

4. Submittals
   A. Contractor shall furnish electronic plans, details and specifications, in PDF format, to the Owner's Construction Representative for review and approval.
   B. Contractor shall furnish one electronic service manual to the University and the Owner's Construction Representative. PDF shall be compiled into one file with documents bookmarked. Manuals shall contain complete drawings of all equipment installed showing components and catalog numbers together with the manufacturer's name and address.
   C. The Contractor shall furnish an electronic PDF of the Annual Maintenance Manual with annual maintenance procedures recommended by the irrigation designer, the irrigation system component manufacturers and the Contractor.

5. Additional Materials
   A. Loose irrigation equipment, operating keys and spare parts will be furnished by the Contractor in quantities as shown below.
      1. Two (2) valve keys for gate valves.
      2. Two (2) keys for each controller.
      3. Two (2) sets of special tools required for removing, disassembling and adjusting each type of sprinkler and valve supplied on this project.

6. As-Buillt Record Drawings
   A. The Contractor shall maintain one record set of prints of the irrigation system in good condition at the site and mark on them the exact "Record" location of all components. The Contractor shall make a daily record of all work installed during each day. Plans shall indicate the exact location of check valves, gate valves, wire locations, head layout, automatic valves, quick couplers, all irrigation and drainage piping, etc.. Locations should be shown by the triangular system for measurements from easily identified permanent

features, such as buildings, curbs, fences, walks, etc.. Drawings shall show approved substitutions, if any, of material including Manufacturer's name and catalogue number. Drawings shall be to scale and all information shall be recorded in a neat, orderly way.

B. At the time of the irrigation mainline test, the Contractor shall provide a preliminary set of As Built Record" Drawings to the Owner's Construction Representative.

C. The Contractor shall provide final AutoCAD or REVIT files of as-built drawingsin addition to the PDF's of same to the University's A/E for inclusion in the final project documents.

7. Job Conditions
   A. Examination of Site
      1. The bidder acknowledges that he has examined the site, plans and specifications and the submission of a quotation shall be considered evidence that examinations have been made.
   B. Field Conditions
      1. The Contractor shall verify drawing dimensions with actual field conditions and inspect related work and adjacent surfaces. The contractor shall report to the Owner's Construction Representative all conditions which prevent proper execution of his work.
   C. The exact location of all existing utilities, structures and underground utilities, which may not be indicated on the drawings, shall be determined by the Contractor and he shall conduct his work so as to prevent interruption of service or damage to them. The Contractor shall protect existing structures and utility services and be responsible for their replacement if damaged by him.
   D. The Contractor shall verify the correctness of all finish grades within the work area to insure the proper soil coverage of the irrigation system pipes.

8. Materials Storage and Clean-Up
   A. The Contractor shall keep the premises free from rubbish and debris at all times and shall arrange his material storage so as not to interfere with the operation of the project. All unused materials, rubbish and debris shall be removed from the site.

9. Completion and Acceptance
   A. The completion of the contract will be accepted and Notice of Completion recorded only when the entire contract is completed to the satisfaction of the Owner's Construction Representation.
   B. Within ten (10) days of the Contractor's notification that the installation is complete, the Owner's Construction Representative will inspect the installation and, if final acceptance is not given, will prepare a "punch list."
   C. Final Acceptance -- Work under this Section will be accepted by the Owner's Construction Representative upon satisfactory completion of all work including "punch list" items.

10. Warranty
    A. The entire irrigation system shall be unconditionally guaranteed by the contractor as to material and workmanship, including settling of backfilled areas below grade for the following periods:
       1. One year guarantee on parts and labor, underground piping and fittings.
       2. Two year guarantee on sprinkler heads against rotary failure

October 12, 2018

16. Control Wire
    A. Wire shall be solid copper wire, U>L. Approved for direct burial in ground. Minimum gauge: #14 UF. (#12 UF for runs over 2,000 LF.) Common ground wire shall be white. Control wires shall be red. Spare wires shall be blue or a separate color.
    B. Spare wires: Furnish and install two spare conductors rom the controller to the most distant electric control valve on each mainline section. Loop the spares into each passed valve box and label as “SPARE” in each passed valve box.

17. Splicing Materials
    A. Splicing Materials shall be 3M Direct Bury (DBY) splice kits by 3M Corporation, Austin, Texas 888-364-3577 or “Snip-Snap” connector by Imperial, Lenexa, Kansas (913) 469-5700.

18. Remote Control Valves
    A. Remote control valves shall be electric type valves, with optional pressure regulation. Acceptable models and manufacturers listed below:
        1. Rainbird
        2. Toro
        3. Hunter

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H. Protect all hardscape and planted areas from damage due to system installation. Preserve all existing tree roots over 1.5” by avoiding trenching route through drip line of existing trees, or hand trenching these areas.

2. Trenching
   A. Locate and mark all underground utilities prior to the commencement of any trenching. These may include, but are not limited to gas, water, cable television, fiber optic, telecommunication and electric lines. Any damage to underground utilities caused by the contractor shall be repaired at the contractor’s expense.
   B. Perform all excavations as required for installation of work included under this Section, including shoring of earth banks, if necessary. Restore all surfaces, existing underground installation, etc., damaged or cut as a result of the excavations, to their original condition.
   C. Trenches shall be open, vertical sided construction, wide enough to provide free working space around work installed and to provide ample space for backfilling and compacting.
   D. When two (2) pipes are to be placed in the same trench, a two (2) inch space is to be maintained between the pipes. The Contractor shall not install two pipes with one directly above the other.
   E. Trenches located under paving shall be backfilled with sand (a layer six (6) inches below the pipe and three (3) inches above the pipe) and compacted in layers of 95% compaction. Depth of trenches shall be 12 inches over all pipes.
   F. The Contractor shall cut trenches for pipe to required grade lines and compact trench bottom to prove accurate grade and uniform bearing for the full length of the line.
   G. All laterals and mainline shall be sufficiently sloped to provide positive drainage through drain valves.
   H. The Contractor shall be held responsible for any damages caused by these operations and shall immediately repair or replace damaged parts.

3. Water Supply and Backflow Prevention Device
   A. Water supply from water well or potable system and backflow prevention device shall be installed per local requirements.

4. Pipe Line Assemb.9(n)1.7(a3.9(a)1.7fsn Tc .0om(on De)-510.5(r)-1h4)-5.1(e)1aeW
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1. Use Teflon tape on all threaded PVC fittings.
2. Use strap-type friction wrench only. Do not use metal-jawed wrench.
3. When connection is plastic to metal, male adapters shall be used. The male adapter shall be hand tightened, plus one turn with a strap wrench.

D. Laying of Pipe

1. Pipes shall be bedded in at least two (2) inches of finely divided material with no rocks or clods over one (1) inch diameter to provide a uniform bearing.
2. Pipe shall be snaked from side to side of trench bottom to allow for expansion and contraction. One (1) additional foot per 100 feet of pipe is the minimum allowance for snaking.
3. Do not lay PVC pipe when there is water in the trench.
4. Plastic pipe shall be cut with PVC pipe cutters or hacksaw, or in a manner so as to ensure a square cut. Burrs at cut ends shall be removed prior to installation so that a smooth unobstructed flow will be obtained.
5. All plastic to plastic joints will be solvent-weld joints or slip seal joints. All plastic pipe and fittings shall be installed as outlined and instructed by the pipe manufacturer and it shall be the Contractor's responsibility to make arrangements with the pipe manufacturer for any field assistance that may be necessary. The Contractor shall assume full responsibility for the correct installation.

E. PVC Sleeves and Electrical Conduit

1. All PVC sleeves shall be minimum of twice (2X) the diameter of the pipe to be sleeved.
2. All PVC control wire conduit shall be of sufficient size to hold the required quantity of control and

diagram to be sealed between two (2) sheets of 20 mil (minimum) plastic. Irrigation diagram shall be reduced copy of the “As Built” drawing and shall show clearly all valves operated by the Controller, showing station number, valve size and type of planting irrigated.

12. Control Wiring
    A. All electric equipment and wiring shall comply with local and state codes and be installed by those skilled and licensed in the trade.
    B. Wiring shall occupy the same trench and shall be installed along the same route as pressure supply or lateral lines wherever possible, and shall have a minimum of eighteen (18) inch cover.
    C. Control wires shall be installed to the side of the main line whenever possible. Placement over pipes is not permitted.
    D. Where more than one (1) wire is placed in a trench, the wiring shall be taped together at intervals of ten (10) feet.
    E. An expansion curl shall be provided within three (3) feet of each wire connection and at least every one hundred (100) feet of wire length on runs of more than one hundred (100) feet in length. Expansion curls shall be formed by wrapping at least five (5) turns of wire around a one (1) inch diameter pipe, then withdrawing pipe.
    F. Control w n(y)129 remot.1(e)1.7ebt2Bw ( )Tj T* -.0017 Tc .3305 T p the sig2 1 Tfco4(u)1.4(eg8 Tm.4(d(b5(r)-1.5c .3e)-5.2a 2-2

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0HPRULDO EHQFKHVWZKEHOJURHXPQGLQ XRQWLPDWHKGH\ XEHVFBPHHSGWUDEXQDHFRU DQ DHVWKHWLF
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Item #.	Description	GC	O	AV	ITS	Other	FF&E	NIC	Notes
G.01	Building Permits Fees		X			X			

Item #.	Description	GC	O	AV	ITS	Other	FF&E	NIC	Notes

Note: This list is not all inclusive and is meant as a guide for discussion and confirmation specific to each project. This should be reviewed with the project manager at the start of the project, with appropriate edits and/or additions made. The edited version shall be included in the schematic design submittal and will serve as the guide for estimating and documentation purposes for the project duration.

OFOI Owner Furnished Owner Installed
OFCI Owner Furnished Contractor Installed
GC – General Construction Contract
O - Owner
AV - Work by Owner
ITS - Work BY Owner
NIC Not In Contract/Budget

		Budgeted Location							
Item #.	Description	GC	O	AV	ITS	Other	FF&E	NIC	Notes
KE.11	CO2 Tank/ Regulator						OFOI		
KE.12	Empty Conduits for Soda Line Sets	CFCI							
KE.13	Commercial Kitchen Equipment utility connections	CFCI							
KE.14	Residential Appliances						OFOI		
KE.15	Grease Interceptors	CFCI							
KE.16	3 Compartment Sinks						CFCI		
KE.17	Hand Sinks	CFCI							
KE.18									
F.01	Movable Furniture						OFOI		
F.02	Fixed Casework	CFCI							
F.03	Reception Lobby Desks (Built in)	CFCI							
F.04	Open Office Furniture						OFOI		
F.05	Carpet and Carpet Tile	CFCI							On non Capital Projects - OFOI
F.06	Window Treatments	CFCI							
F.07	Motorized Window Treatments	CFCI							
F.08	Code required Signage	CFCI							
F.09	Room Signage	CFCI							
F.10	Exterior Building Mounted (Building Name) Signage	CFCI							Architect to Locate, Only at Named buildings
F.11	Permanent Building Identification Sign (Pylon)					OFOI			Architect to locate
F.12	Interior W285.1(Pe.)-2rSLs9 TD [(F.10)-3185.15.1e16OFOI								

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OFOI Owner Furnished Owner Installed
OFCI Owner Furnished Contractor Installed
GC – General Construction Contract
O - Owner
AV - Work by Owner
ITS - Work BY Owner
NIC Not In Contract/Budget

		Budgeted Location							
Item #.	Description	GC	O	AV	ITS	Other	FF&E	NIC	Notes
SW.19	Pavement Markings	CFCI							
SW.20	Dumpster(s)						OFOI		
SW.21	Dumpster Enclosure(s)	CFCI							
SW.22	Dumpster Pads	CFCI							
SW.23	Pest Control	CFCI							
SW.24	Skateboard Racks						OFOI		
SW.25	Skateboard Deterrents	CFCI							
SW.26									
Utilities									
U.01	Generator (s) including Automatic Transfer Switches	CFCI							
U.02	UPS systems(Building or Room)	CFCI							Most Projects would not have this, very specific
U.03	Electrical Secondary	CFCI							
U.04	Temporary Power Usage Fees								See Technical Divisions for additional information.
U.05	Temporary Power Connection Fees								
U.06	Permanent Power Connection Fees								
U.07	Permanent Natural Gas Connection Fees								
U.08	Permanent Natural Gas Usage Fees								
U.09	Permanent Water Usage Fees								
U.10	Temporary Water	OFCI							
U.11	Irrigation Meter	CFCI							
U.12	Fire Meter	CFCI							
U.13	Water Meter	CFCI							
U.14	Gas Meter	CFCI							
U.15	Fiber Optic Connections				OFOI				
U.16	Duct Banks	CFCI							
U.17	Existing Manhole Relocations	CFCI							
U.18	Overhead Power Pole Relocations					OFOI			
U.19									

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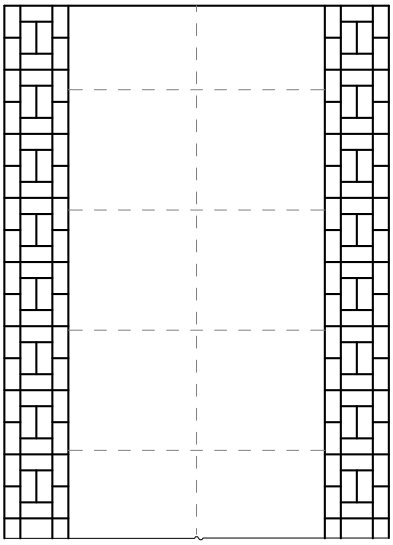
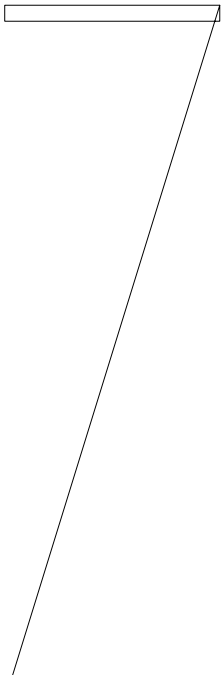
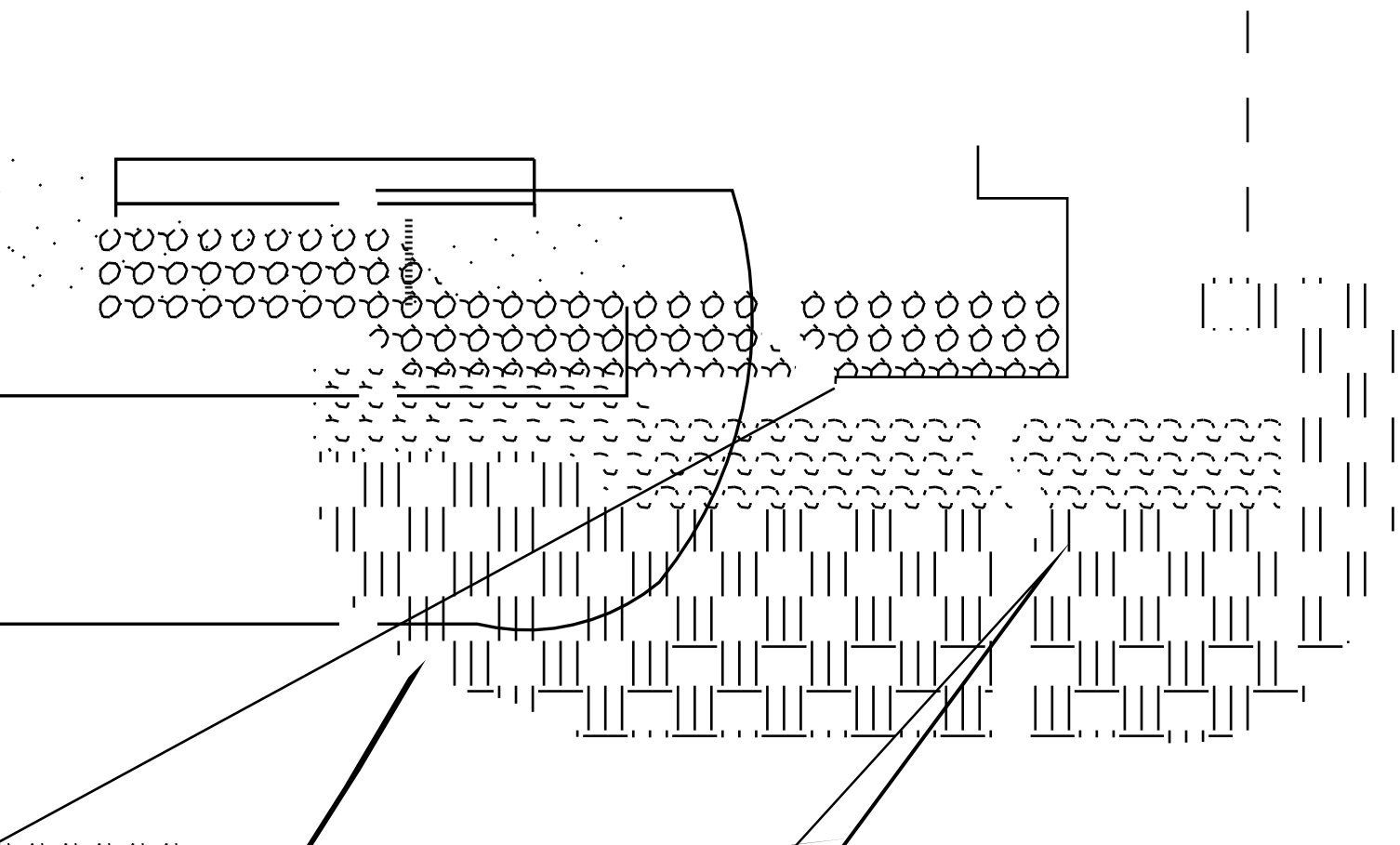
FICM Categories	Color Code	Color
ASSIGNABLE AREAS		
100 Classroom Facilities	TAN	
110 Classroom	205-175-150	
115 Classroom Service	130-100-75	
200 Laboratory Facilities	GREEN	
210 Class Laboratory	225-240-225	
215 Class Laboratory Service	195-230-185	
220 Open Laboratory	165-215-155	
225 Open Laboratory Service	130-205-115	
250 Research/Nonclass Laboratory	70-155-55	
255 Research/Nonclass Laboratory Service	60-100-40	
300 Office Facilities	BLUE	
310 Office	185-220-230	
315 Office Service	145-205-220	
350 Conference Room	50-135-155	
355 Conference Room Service	35-90-105	
400 Study Facilities	YELLOW	
410 Study Room	255-250-15	
420 Stack	235-230-0	
430 Open-Stack Study Room	200-195-0	
440 Processing Room	165-160-0	
455 Study Service	130-130-0	
500 Special Use Facilities	MULTI	
510 Armory	240-220-220	
515 Armory Service	230-185-185	
520 Athletic or Physical Education	220-150-150	
523 Athletic Facilities Spectator Seating	150-55-50	
525 Athletic or Physical Education Service	100-35-35	
530 Media Production	228-223-236	
535 Media Production Service	204-192-218	
540 Clinic	177-160-199	
545 Clinic Service	96-73-122	
550 Demonstration	110-50-160	
555 Demonstration Service	65-50-80	
560 Field Building	220-215-195	
570 Animal Facilities	195-190-150	
575 Animal Facilities Services	180-170-125	
580 Greenhouse	150-140-85	
585 Greenhouse Service	105-100-60	
590 Other (All Purpose)	75-70-40	

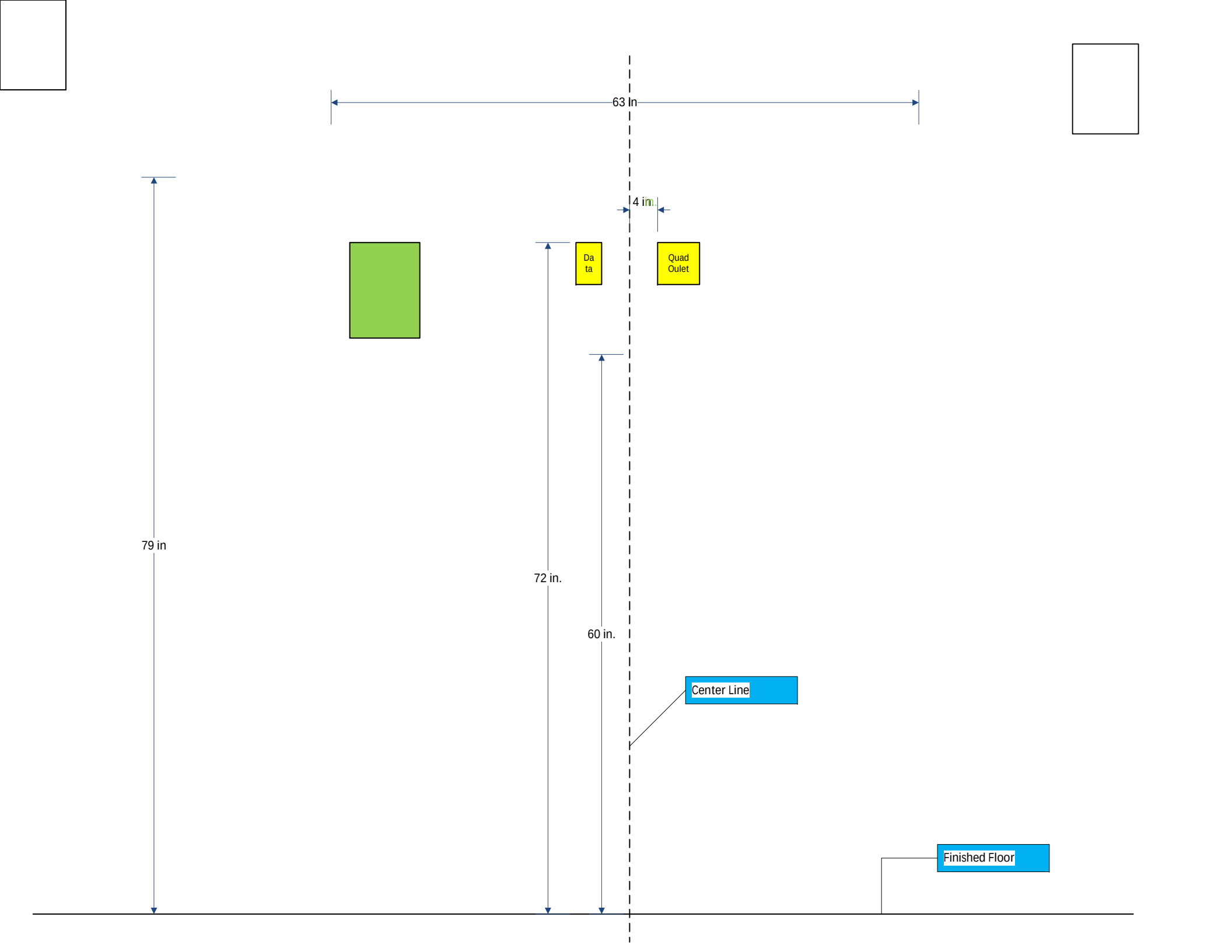
FICM Categories	Color Code	Color

FICM Categories	Color Code	Color
900 Residential Facilities	PINK	
910 Sleep/Study Without Toilet or Bath	255-185-220	
919 Toilet or Bath	255-155-205	
920 Sleep/Study With Toilet or Bath	255-100-155	
935 Sleep/Study Service	255-125-130	
950 Apartment	255-0-100	
955 Apartment Service	175-0-90	
970 House	155-0-50	
000 Unclassified Facilities	RED	
050 Inactive Area	255-0-0	








63 In
4 in.
Da
ta
Quad
Oulet
79 in
72 in.
60 in.
Center Line
Finished Floor

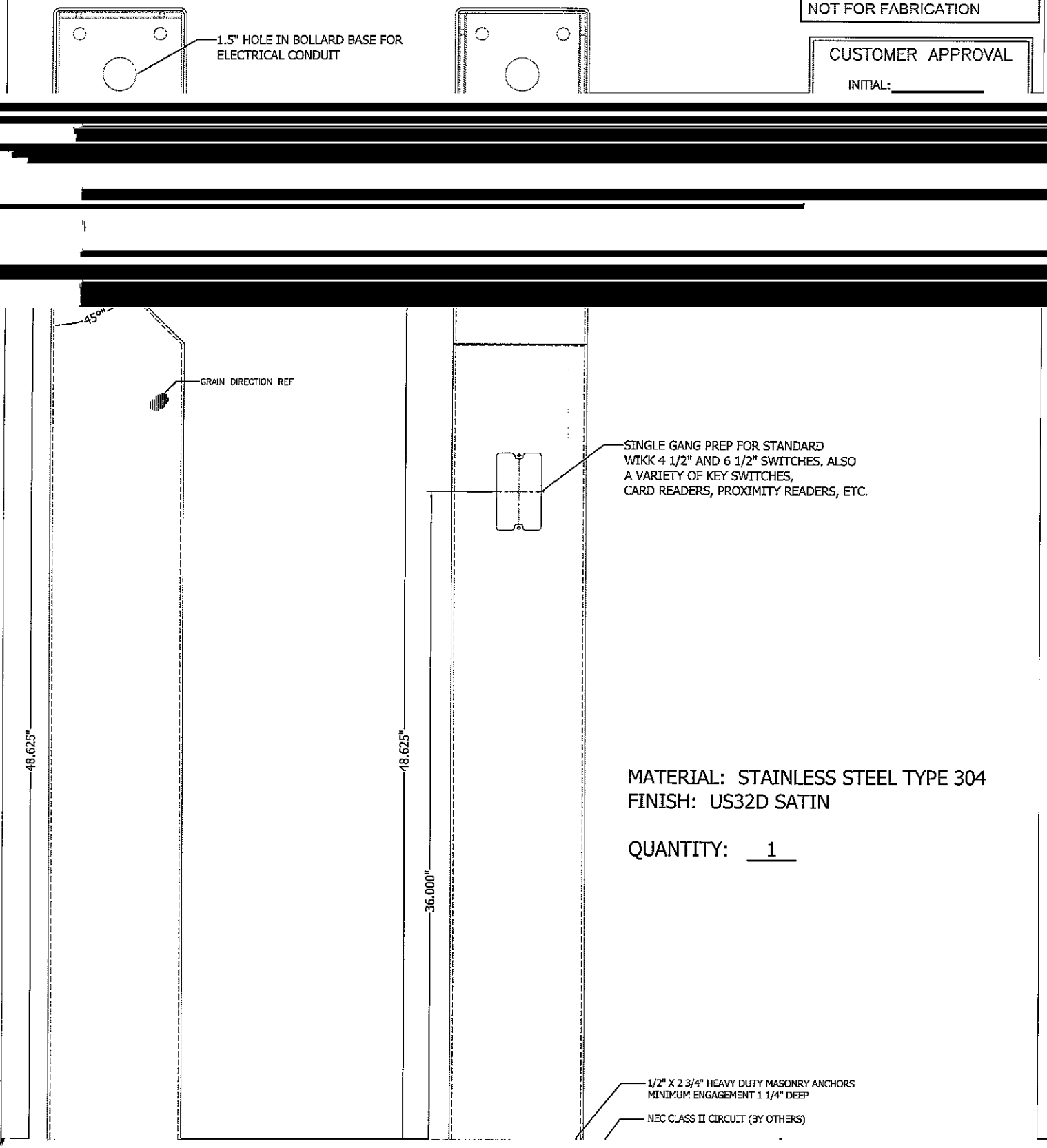
Furniture and Fixed Equipment				
05 FFE	YYYY_FFE Specs		PDF	
	YYYY_FFE Plans		PDF	
	YYYY_FFE Boards	If we receive digital boards we will provide up to date photographs of the boards.	PDF	
O&M Manuals				
03 OM Manuals				
YYYY_ORIGINAL (ADD or DEMO)			PDF - Bookmarked	
Interior Finishes	YYYY_FINISHES	Reach finish material used on the project by finish code, manufacturing product name, size and color	PDF	
Exterior Materials	YYYY_EXTMAT	Comprehensive record of all exterior materials used on the building, listing the manufacturer, style, color etc. Specifically listing the percentage of each brick used for blends.	PDF	
Training	YYYY_(Name of Training Video)	Training Video of the Systems installed for each training session at the start of the training video		
Warranties	YYYY_WARRANTIES	Front of All warrantees with contact information and start and end dates	PDF of all warrantees effective	
Maintenance	YYYY_OM	Each binder will contain maintenance, care provide a list of the contents of the section	PDF of Book marked	

If you have any questions regarding specific items listed in the table above please let us know.

PRE-PRODUCTION DRAWING.
NOT FOR FABRICATION

CUSTOMER APPROVAL

INITIAL: _____



MATERIAL: STAINLESS STEEL TYPE 304
FINISH: US32D SATIN

QUANTITY: 1

6"
C/
RA
W
SI
6" X
SNG
REM
RF TI
SURF
STANDARD 6" X
6X6-5 SWITCH A
AND REMOVABL
42.000" [1066.79mm]
36.000" [914.40mm]
0.360" [9.20mm]
4.000" [152.40mm]
G
H
ITH TAMP
L CAP
TING BA
REM
WITH
REM
K 54"
GANG P
ABLE BL
ROUND
JAVALA
IPS ID
4" X 4" BOLLAR
SINGLE GANG
REMOVABLE B
SURFACE MOL
B4S SM-PREPX
P
CL
AV
SM
4.000" [101.60mm]
4.000"
6" X 6" X 48
INGRESSR
PREP FOR
OR OTHER
REMOVABL
TRANSPAR
SURFACE I
BOLLARD WITH
AND CARD R
BPS SM-INC
C
ntative of, but
e manufacture

Specifications_YYYY MMDD

Plans_YYYY MMDD

Boards_YYYY MMDD

Closeout Documents

Outdoor Wireless Bollard

Wi-

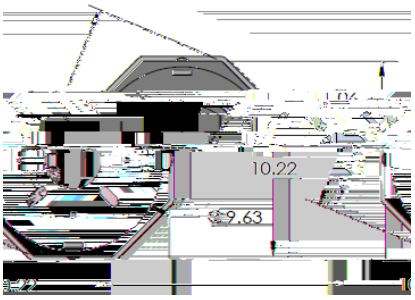
Ventev [redacted] Wi-Fi and wireless communications in an outdoor environment such as in courtyards, along walkways and access corridors. Constructed of durable, RF-transparent UV-[redacted] designed to protect and secure mast Wi-Fi [redacted] in cable management.

Specifications

SKU	212287
Model	BLRD-[redacted] BLRD-[redacted]-4210C1
Outside Dimensions (Length x Width x Depth)	42 in. x 11.6 in. x 11.6 in. [redacted]
Inside Dimensions	[redacted] mm) 35 in. [redacted]
Exterior Construction	UV-resistant, RF transparent fiberglass with [redacted] non-metallic paint
Interior Construction	[redacted] mpact polycarbonate [redacted] heavy-[redacted] 5052 Aluminum [redacted]
Mounting	Anchors to pre-[redacted]

Outdoor Wireless Bollard

Wi-



and antenna for reference only.

Products ship with:

(1) Aluminum Bollard with pre-installed mounting base

One (1) pre-assembled internal...

and 1/4" Hardware (Bracket fits...

Tamper

Manufacturer of Interlocking Concrete avers

Since 1983

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Hampton, VA 23669
Phone: (757) 723-0774
Toll Free: (800) 572-3189
Fax: (757) 723-8895
E-mail: info@interlockonline.com

BASELINE COLOR COMPOSITES

TRANSITIONAL COMPOSITE BLEND DERIVATIVES

INTERLOCKING CONCRETE PAVEMENT INSTITUTE
PRODUCER MEMBER

COLOR CHART NOTES:

- Interlock™ Paving Systems, Inc. Paving stone colors are available in 10 baseline color composites and 11 transitional
- Hand Blended Jobsite

EAC CONDUIT DIAGRAMS

Diagram 1 - MLR Exit Device w/ Auto Operator, Card Reader, Door Position Switch & Request to Exit

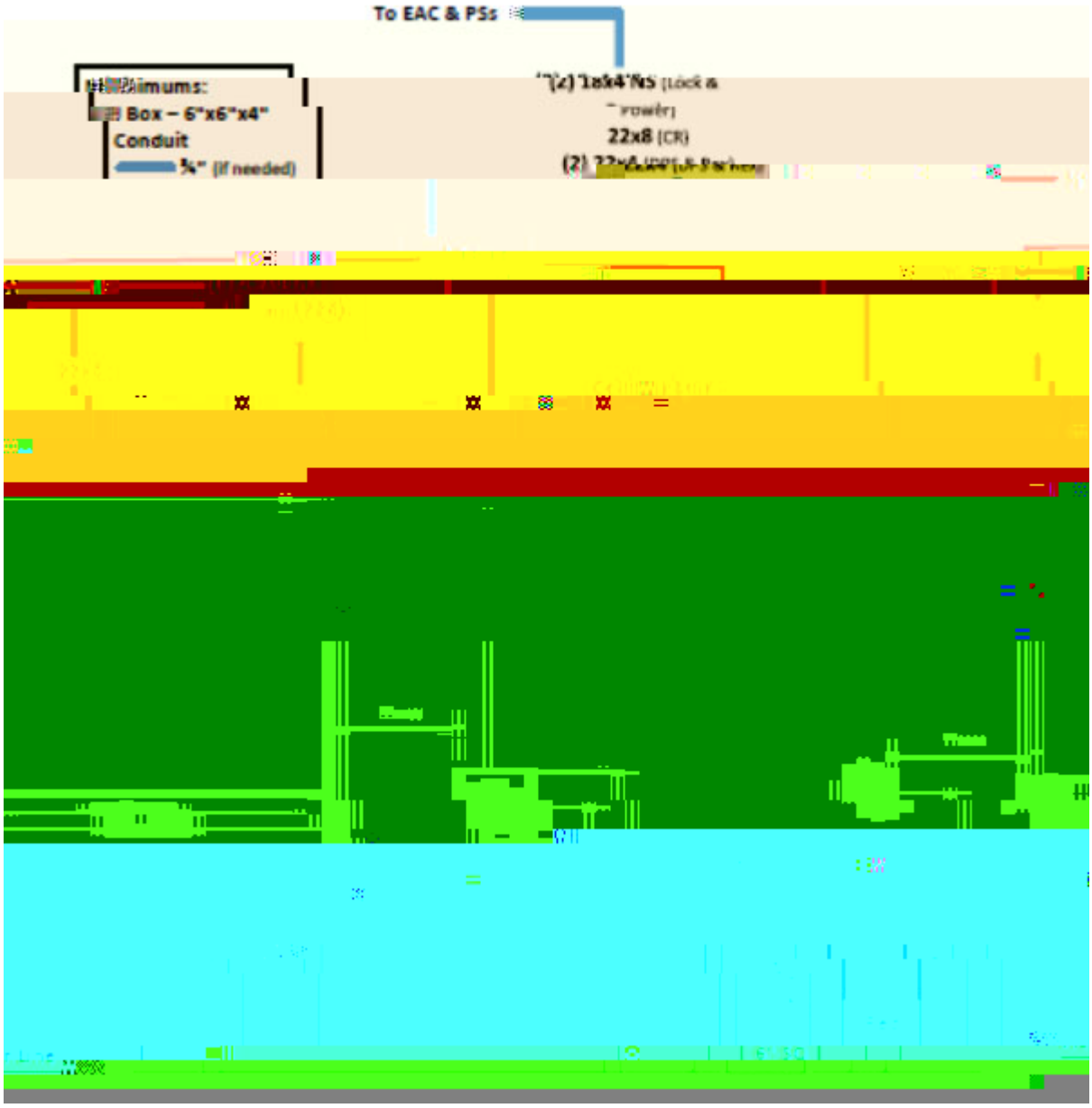

Diagram 4 - Electrified Strike w/o Auto

Diagram 5 - Electrified Strike w/o Auto Operator or Card Reader, w/ Door Position Switch & PIR Request to Exit

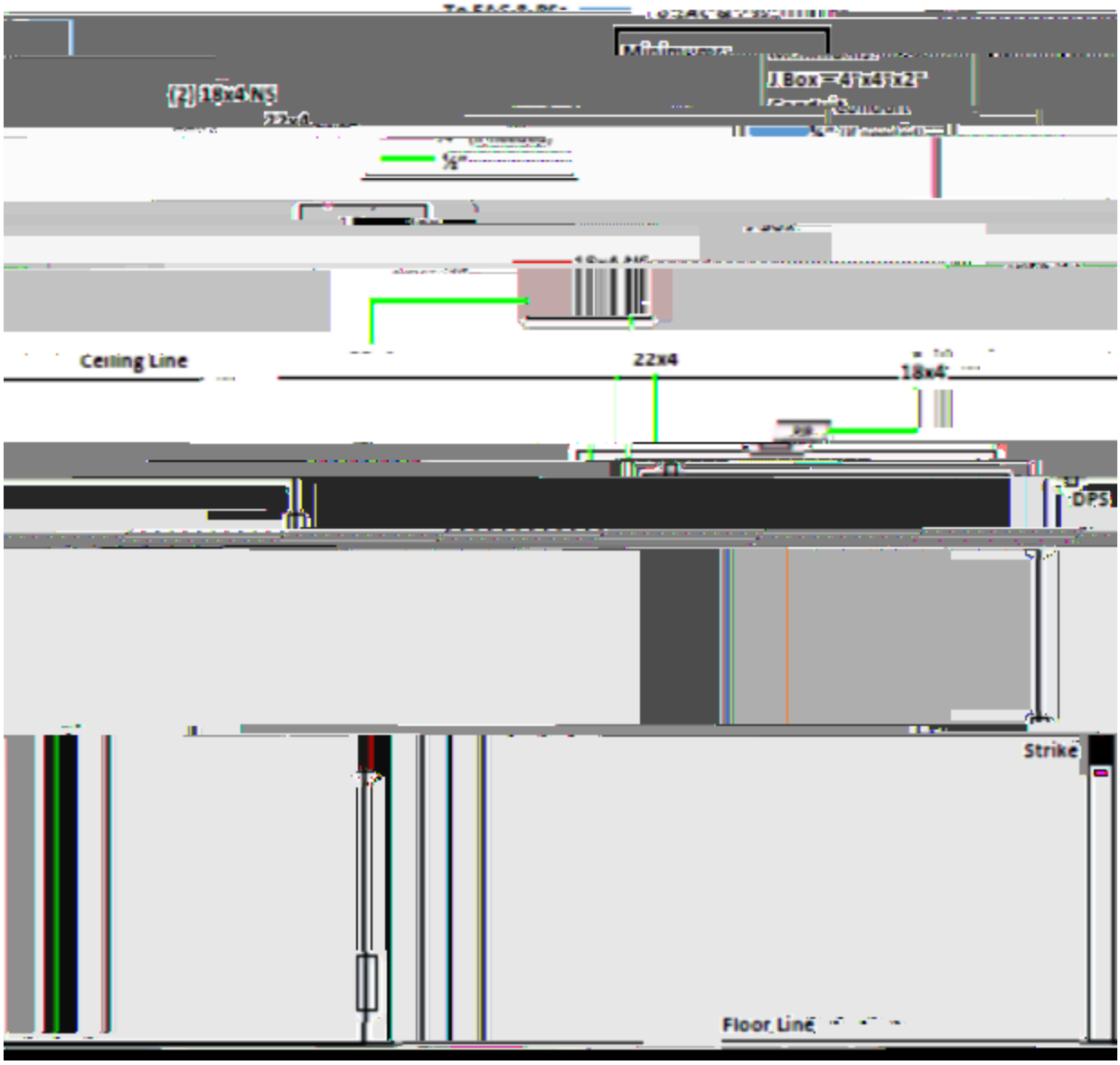

Diagram 6 - Exit Only Exit Device w/ Door Position Switch, Request to Exit and Horn

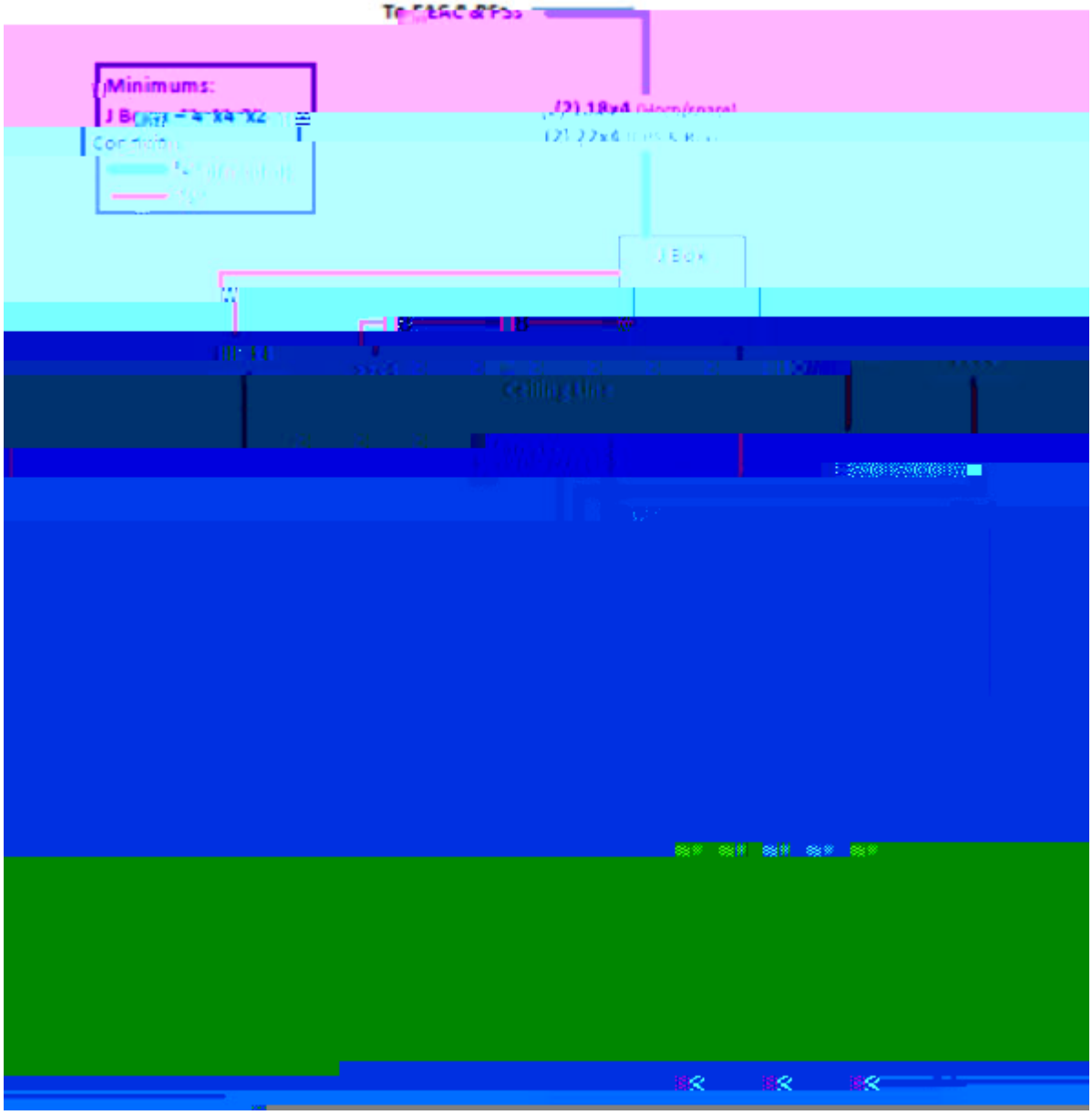

Diagram 9 - AD300

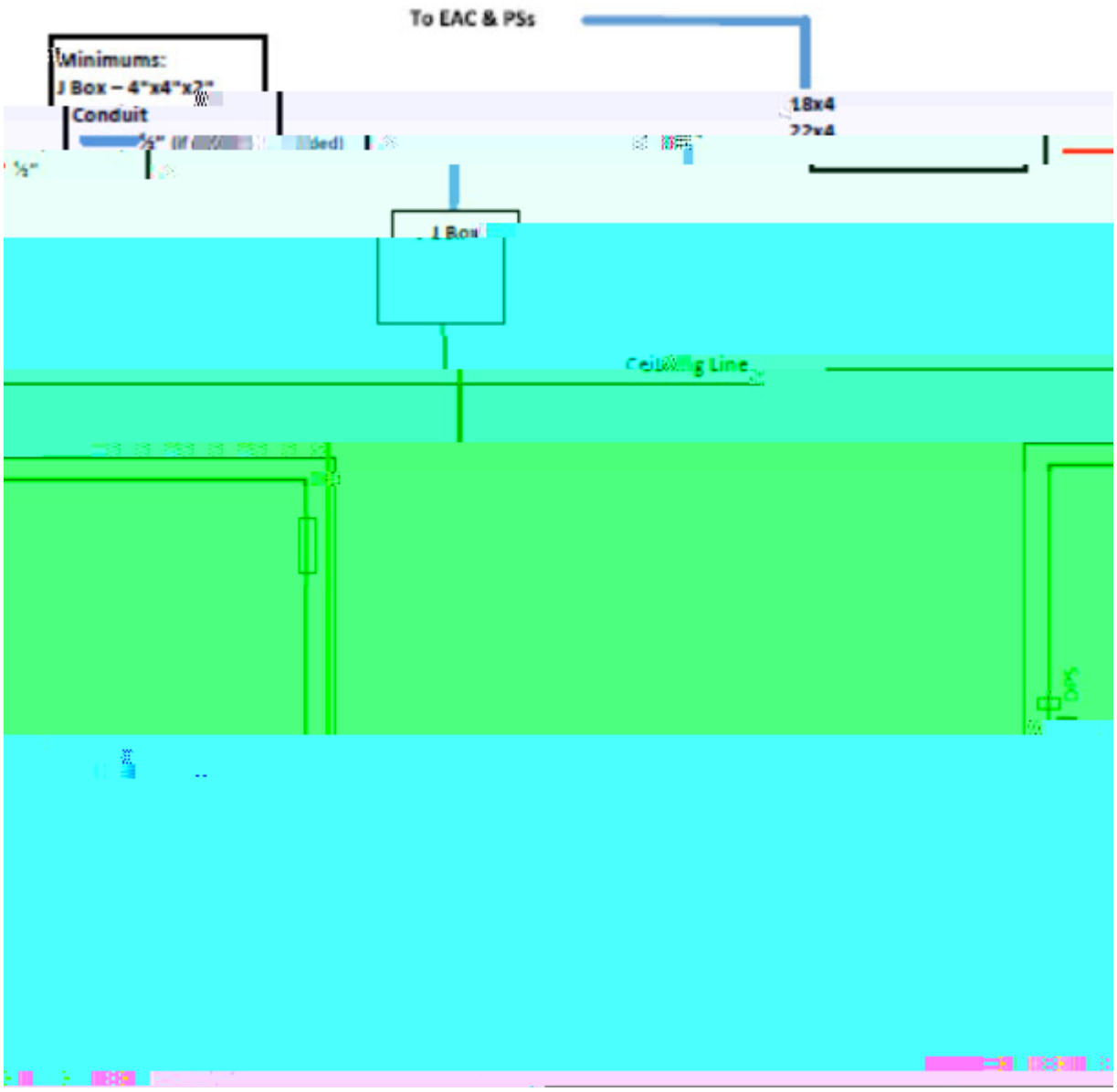
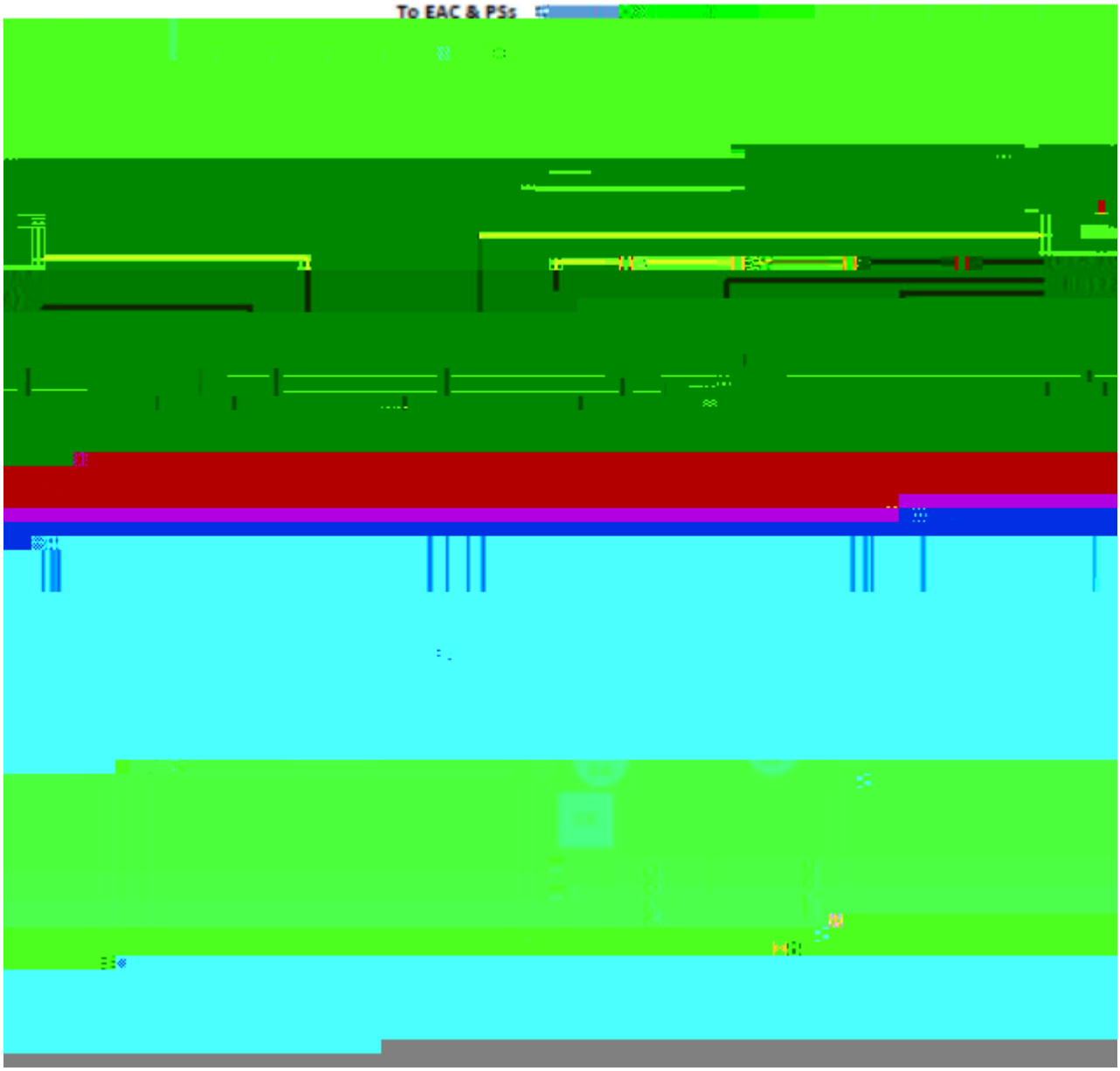
Diagram 10 MLR double door w/Auto Operator, Card Reader, Door Position Switch & Request to Exit