REMODELING OF THE OHIO UNIVERSITY PICKERINGTON CENTER TO BECOME

FAIRHEID (FNTER

12941-12945 STONE CREEK DRIVE PICKERINGTON, OH 43147

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- DEMOLITION FLOOR PLANS
- FOUNDATION, FLOOR FRAMING AND ROOF FRAMING PLANS
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- LOWER LEVEL PLAN ELECTRICAL
- UPPER LEVEL PLAN ELECTRICAL
- ELECTRICAL RISER AND SCHEDULES
- ELECTRICAL SYMBOLS LEGEND, PANEL
- SCHEDULES, SECURITY ACCESS DOOR INFO
- E4.0 ELECTRICAL SPECIFICATIONS
- FA2.1 OVERALL FLOOR PLANS FIRE ALARM

ARCHITECTSIN palladino luchtenberg

426 E. MAIN STREET, LANCASTER, OHIO 43130

FOLLOWS:

IO.I. OFFICE SPACE

II.I. OFFICE SPACE

IO.3. TOTAL OCCUPANT LOAD

II. OBC CHAPTER 29 PLUMBING FIXTURE REQMTS:

ONE SERVICE SINK

ONE SERVICE SINK

II.2. ACCESSORY MEETING ROOM

CODES HAVING JURISDICTION.

ONE TOILET AND ONE LAY

TWO TOILETS AND TWO LAVS

9. THE BUILDING HEIGHT OF THE PROPOSED ADDITION IS 25'-6".

IO. THE OCCUPANCY LOAD OF THE REMODELED SPACE AND THE ADDITION WILL BE AS

IN LIEU OF DRINKING FOUNTAIN, THE OWNER WILL HAVE CONTINUOUS SUPPLY

IN LIEU OF DRINKING FOUNTAIN, THE OWNER WILL HAVE CONTINUOUS SUPPLY

10.2. ACCESSORY 1152 SF MEETING ROOM POSTED AT = 125 OCCUPANTS

OF BOTTLED WATER AVAILABLE TO ALL OCCUPANTS

OF BOTTLED WATER AVAILABLE TO ALL OCCUPANTS

12. THE PROPOSED CONSTRUCTION SHALL COMPLY WITH THE 2017 EDITION OF THE OHIO

13. THE PROPOSED CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF ASHRAE

BUILDING CODE AND THE LATEST EDITIONS OF THE OHIO MECHANICAL CODE, THE OHIO

PLUMBING CODE, THE NATIONAL ELECTRIC CODE, AND ALL OTHER STATE OR LOCAL

II.3. THE PROPOSED PROJECT AREA EXCEEDS THESE REQUIREMENTS.

= 46 OCCUPANTS

= ITI OCCUPANTS

PHONE: (740) 654-4048

FAX: (740) 654-3009

PROJECT DESCRIPTION / OBC INFORMATION

- I. THE PROPOSED PROJECT CONSISTS OF AN ADDITION TO AND INTERIOR REMODELING OF A PORTION OF AN EXISTING TWO LEVEL MULTI-TENANT OFFICE BUILDING.
- 2. THE EXISTING BUILDING HAS THE FOLLOWING CHARACTERISTICS PER THE 2017 EDITION OF THE OHIO BUILDING CODE:
- 2.I. UPPER LEVEL = 7287 NSF LOWER LEVEL = 7203 NSF
- 2.3. 5B CONSTRUCTION 2.4. B OCCUPANCY

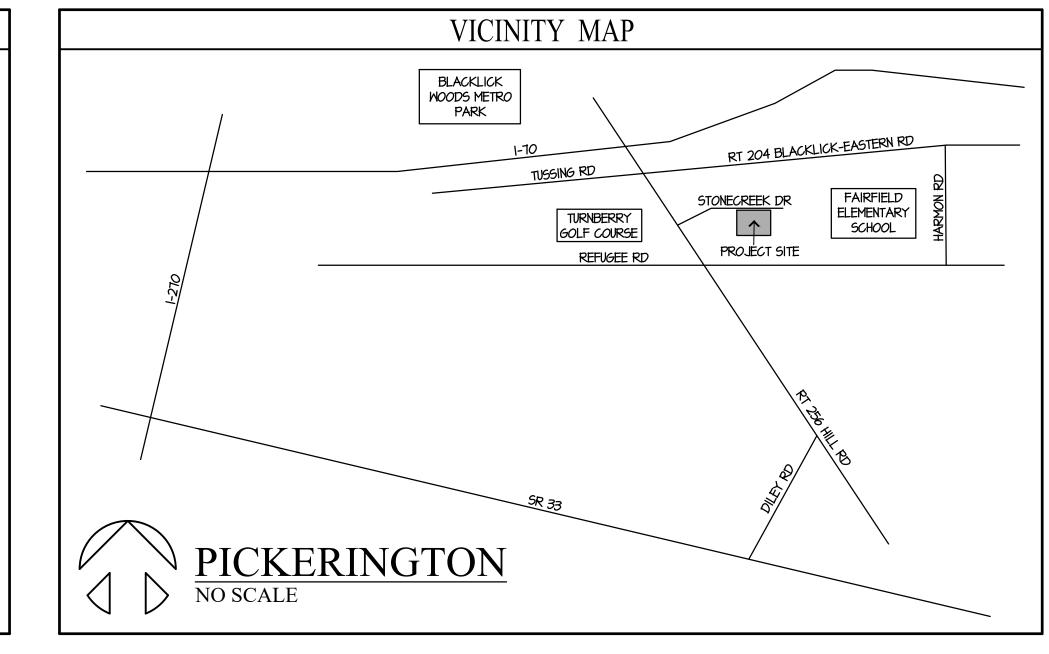
4.5. ASSOCIATED SITE WORK

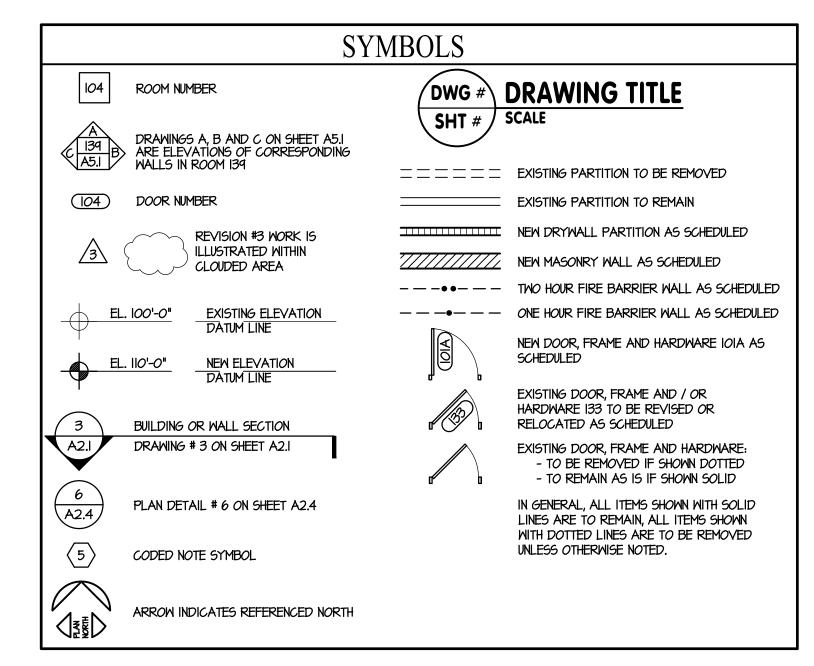
- 3. THE PROPOSED REMODELING WILL OCCUR IN THE UPPER LEVEL. THE TOTAL AREA TO BE REMODELED WILL BE 4397 NSF.
- 4. THE PROPOSED ADDITIONS TO THE EXISTING BUILDING INCLUDE:
- 4.I. TWO NEW AIR-LOCK ENTRY VESTIBULES AT THE UPPER LEVEL. 4.2. A NEW TWO LEVEL ADDITION, INCLUDING A DRIVE THRU TRANSACTION WINDOW
- 4.2.I. LOWER LEVEL 4.3. A NEW EXTERIOR DRIVE THRU ROOF CANOPY
- 4.4. A NEW DIESEL POWERED GENERATOR
- 5. THE AREA OF THE PROPOSED ADDITIONS ARE AS FOLLOWS: TWO NEW AIRLOCK ENTRY VESTIBULES = 56 NSF (TOTAL) = 650 NSF
- UPPER LEVEL ADDITION LOWER LEVEL ADDITION 5.4. DRIVE THRU CANOPY ROOF
- 6. THE PROPOSED ADDITION WILL HAVE 'B' OCCUPANCY
- 7. THE PROPOSED NEW ADDITION SHALL BE 5B CONSTRUCTION, NON-SPRINKLERED..

= 650 NSF

= 206 NSF

- 8. PER OBC TABLE 506.2, THE AREA LIMITATION OF A NON SPRINKLERED, 5B BUILDING WITH A 'B' OCCUPANCY IS 9,000 NSF PER FLOOR.
- 8.1. THE PROPOSED UPPER LEVEL WILL HAVE 8,262 NSF
- 8.2. THE PROPOSED LOWER LEVEL WILL HAVE 8,200 NSF

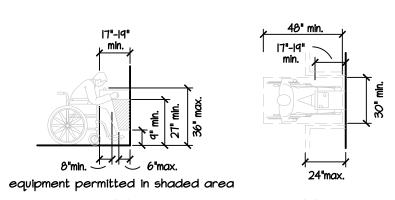




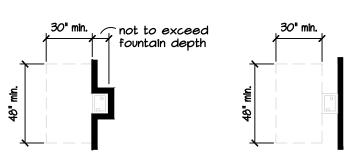
ISSUE	MARK	DATE
BID		5-5-22
_	PROJ. 2 1	30
* RECSTA	OF STEPHEN M. CHTENBE 8546	▲ •

MOUNTED NEAR THE FRONT EDGE.

SPOUT HIEGHT - SPOUT SHALL BE NO HIGHER THAN 36" MEASURED FROM THE FLOOR OR GROUND SURFACES TO THE SPOUT OUTLET.



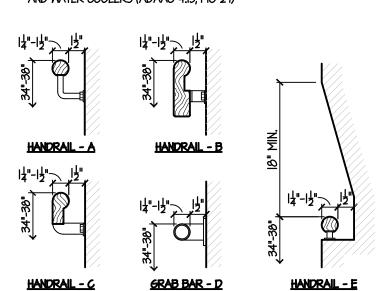




Built-in Fountain or Cooler Free Standing Fountain or Cooler

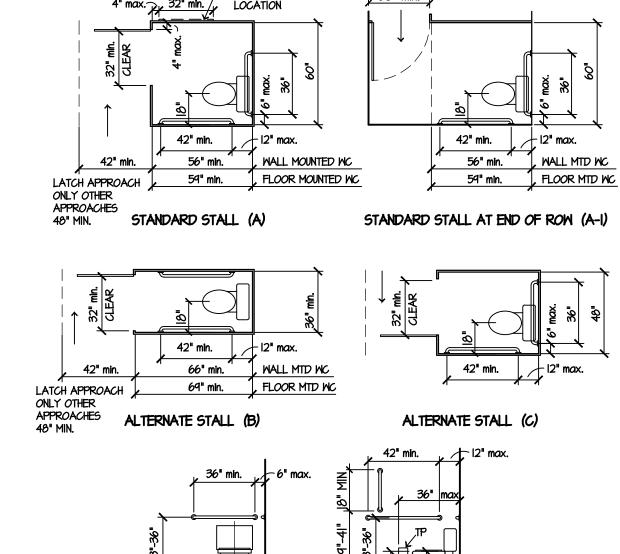
WATER COOLERS

ACCEPTABLE CONFIGURATIONS FOR DRINKING FOUNTAINS AND WATER COOLERS (ADAAG 4.15, FIG 27)



HANDRAILS

SIZE AND SPACING OF HANDRAILS AND GRAB BARS (ADAAG 4.26.2 FIG. 39)



ADA TOILET STALLS

CLEAR FLOOR SPACE

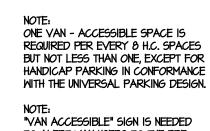
42" min.

54" min. ´

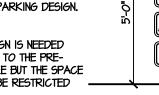
SIDE APPROACH

REAR WALL STD STALL

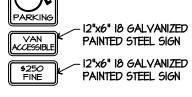
ONE STANDARD STALL SHALL BE PROVIDED WHERE 6 OR MORE STALLS ARE REQD. ALTERNATE STALLS MAY BE PROVIDED AFTER THE REQD STANDARD HANDICAP STALLS HAVE BEEN PROVIDED.



TO ALERT VAN USERS TO THE PRE-SENCE OF WIDER AISLE BUT THE SPACE IS NOT INTENDED TO BE RESTRICTED



- 12"xI8" I8 GALVANIZED PAINTED STEEL SIGN - 12"x6" IB GALVANIZED PAINTED STEEL SIGN



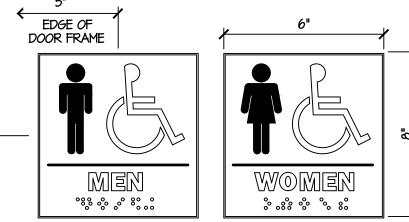
ONLY TO VAN USE HANDICAP PARKING SIGN TYPICAL HANDICAP PARKING SIGN (ADAAG 4.6)



PROPORTIONS DISPLAY CONDITIONS INTERNATIONAL SYMBOL OF ACCESSIBILITY INTERNATIONAL SYMBOL OF ACCESSIBILITY

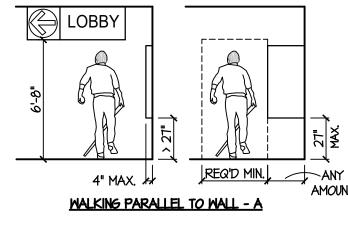
HANDICAP SYMBOLS

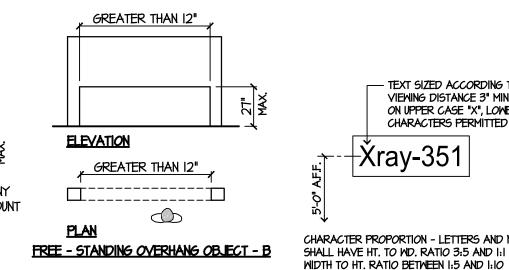
INTERNATIONAL SYMBOL OF ACCESSIBILITY (ADAAG 4.30.7, FIG. 4.3)

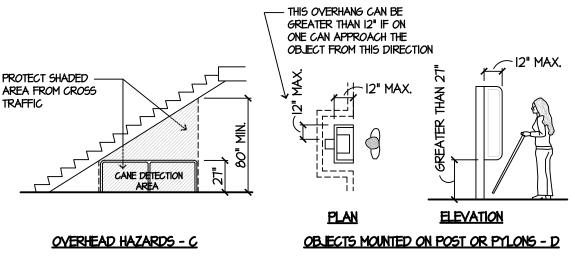


I I/2" HIGH WHITE LETTERING ON DARK BLUE BACKGROUND DARK BLUE PLASTIC (FIELD) BACKGROUND WITH WHITE RAISED OR DEPRESSED EMBLEMS (NOTE-EMBLEMS AND LETTERING MUST BE RAISED OR DEPRESSED MIN. I/I6 TYPICAL) PROVIDE (I) SIGN TOILET COMPLYING WITH ADA LOCAL CODE. SIGN TO HAVE RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY. MOUNT 5'-O" TO CENTERLINE A.F.F.

SIGN SIZE 6"x8" COLOR DARK BLUE WITH WHITE CHARACTERS. HANDICAP SIGN DETAILS

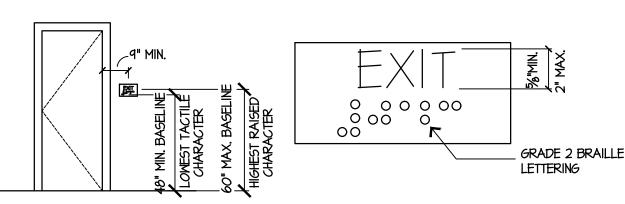






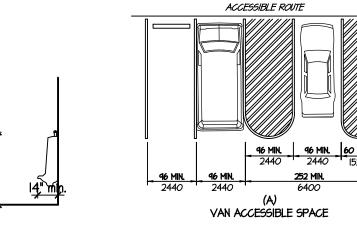
PROTRUDING OBJECTS

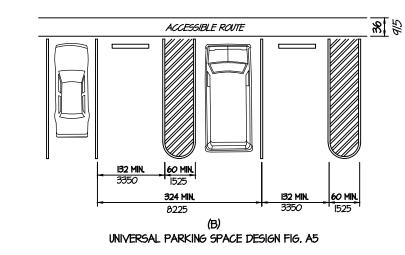
PROTRUDING OBJECTS (ADAAG 4.4 FIG. 8)



TACTIAL EXIT SIGNAGE

TYPICAL EXIT SIGN (ADAAG 703)





PARKING SPACE ALTERNATIVES **ADA URINAL** HANDICAP PARKING

IN FRONT OF URINAL TO ALLOW FORWARD APPROACH. space 1 19" max.+ toe clearance 48" min. FLOOR PLAN SIDE ELEVATION

NOTE: THIS SHEET IS A GENERAL INFORMATION SHEET FOR HANDICAP REQUIREMENTS CERTAIN DETAILS ON THIS SHEET MAY NOT BE PERTINENT TO THIS PROJECT

30" MIN. WIDE AND 19" DEEP. ADA LAVATORIES

FAUCETS TO BE LEVER TYPE OR PUSH

A.D.A. A.G. 4.192.

CLEAR FLOOR SPACE

42" min.

54" min. "

SIDE MOUNTING

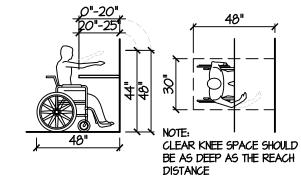
PROVIDE 30"x48" FLOOR SPACE

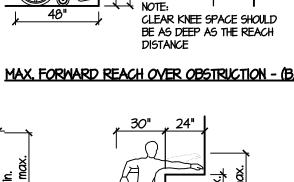
TOILET ROOM NOTES

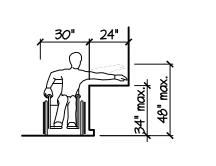
KNEE CLEARANCE TO BE 27" HIGH

- INSTALL 2 x WOOD BLOCKING AT ALL WALL MOUNTED ACCESSORY AND GRAB BAR LOCATIONS. PROVIDE 5/8" MOISTURE RESISTANT GYPSUM BOARD
- ON INSIDE FACE OF ALL TOILET ROOM PARTITIONS AT PLUMBING FIXTURE LOCATIONS MANUFACTURER FOR ALL ACCESSORIES TO BE SELECTED
- OF SIGNS TO BE 60" A.F.F. SIGNAGE TO BE A.D.A. COMPLIANT. LAVATORIES SHALL BE LOCATED SUCH THAT TOP OF RIM OR COUNTER SURFACE BE AT A MAX OF 34" A.F.F. PROVIDE 29" MIN. CLEARANCE BETWEEN FINISH FLOOR AND BOTTOM OF APRON AND SHALL COMPLY WITH
- 6. LAVATORIES SHALL BE LOCATED SUCH THAT A CLEAR FLOOR SPACE OF 30" X 48" IS PROVIDED AND SHALL COMPLY WITH A.D.A. A.G. 4.193.
- ALL FAUCETS SHALL BE LEVER OPERATED, PUSH TYPE, AND COMPLY WITH A.D.A. A.G. 4.27.4. IF SELF CLOSING VALVES ARE USED, THE FAUCET SHALL REMAIN OPEN FOR AT LEAST 10 SECONDS. TOILET ROOM DOOR SIGNS PROVIDED BY G.C. CENTERLINE 8. PROVIDE TRAP WRAP #PW-2125 BY PRO WRAP AT ALL A.D.A. ACCESSIBLE LAVATORIES WITH EXPOSED PIPING
 - WATER CLOSETS TO BE 17" TO 19" MEASURED TO TOP OF THE TOILET SEAT FROM THE FLOOR. IO. WATER CLOSET FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND SHALL COMPLY WITH A.D.A. A.G. 4.27.4. CONTROLS FOR FLUSH SHALL BE BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS.

HIGH FORWARD REACH LIMIT - (A)







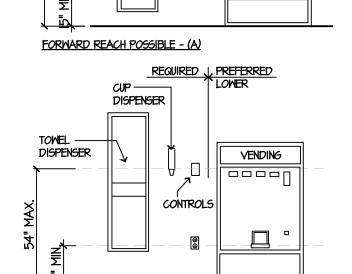
MAX. SIDE REACH OVER OBSTRUCTION - (C)

REACH LIMITS

PARALLEL APPROACH - (A)

CLEAR FLOOR SPACE

REACH REQUIREMENTS FOR FORWARD AND SIDE APPROACH (ADAAG 4.2.5 AND 4.2.6 FIG. 4 AND 5)



CONTROLS

REACH LIMITS

SIDE REACH POSSIBLE - (B)

CONTROLS REACH LIMITS (ADAAG 4.7. FIG. A8)

TYPICAL SIGN LOCATION

TYPICAL SIGN LOCATION

LOCATE IN SUCH A MANNER THAT

INTERFERENCE FROM OBJECTS OR

PUSH SIDE

NOTE: X = 12" IF DOOR

PUSH SIDE

NOTE: Y = 48" IF DOOR

AND LATCH

HAS BOTH A CLOSER

VENDING

HAS BOTH A CLOSER

NOTE: Y = 48" MIN. \F DOOR

HAS CLOSER

DISPENSER

DISPENSER

and Latch

A PERSON MAY APPROACH TO

WITHIN 3" OF SIGN WITHOUT

(LATCH SIDE OF DOOR

WHEN POSSIBLE.)

(LATCH SIDE OF DOOR

- TEXT SIZED ACCORDING TO

CHARACTERS PERMITTED

Χray-35′

CHARACTER PROPORTION - LETTERS AND NUMBERS

SHALL HAVE HT. TO WD. RATIO 3:5 AND I:I AND

CHARACTER HEIGHT - LETTERS AND NUMBERS ON

SIGNS SHALL SHALL BE SIZED ACCORDING TO THE

VIEWING DISTANCE FROM WHICH THEY ARE TO BE

READ. THE MIN. HT. IS MEASURED USING UPPER CASE "X" LOWER CASE CHARACTERS ARE

FINISH AND CONTRAST - CHARACTERS AND

FINISH. CHARACTERS AND SYMBOLS SHALL

BACKROUND OF SIGNS TO BE OF NON-GLARE

CONTRAST WITH THIER BACKROUND EITHER LIGHT

CHARACTERS ON DARK BACKROUND OR VISE

(FOR ADDITIONAL AND/OR MORE DETAILED

DOUBLE LEAF DOORS. BOTH LEAVES SHALL BE 32"

DOORS SHALL HAVE CLEARANCES PER THE AREA

AND CLEAR (EXTERIOR MAX. SLOPE 2%)

THAN 7'-O" CLEAR BETWEEN DOORS.

SLOPE NO GREATER THAN 1:2

LEADING EDGE OF THE DOOR.

SLIDING DOOR = 5.0 LBS

HIGH AND LOW SIDE

REACH LIMITS - (B)

DOOR OPENING FORCE SHALL BE:

EXTERIOR HINGE DOORS = 8.5 LBS

INTERIOR HINGE DOORS = 5.0 LBS

DOOR DETAILS

WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL

DOORS IN SERIES SHALL BE 48" PLUS THE WIDTH OF

ANY DOOR SWINGING INTO THE SPACE BUT NOT LESS

THRESHOLDS AT DOORWAYS SHALL NOT EXCEED ½".

OPERATING DEVICES ON ACCESSIBLE DOORS SHALL

HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE

HAND AND DOES NOT REQUIRE TIGHT GRASPING, OR

OPERATED MECHANISMS, PUSH-TYPE MECHANISMS, AND

RAISED THRESHOLDS SHALL BE BEVELED WITH A

HANDLES, PULLS, LATCHES, LOCKS AND OTHER

TWISTING OF THE WRIST TO OPERATE. LEVER

U-SHAPE HANDLES ARE ACCEPTABLE DESIGN.

HARDWARE FOR REQUIRED ACCESSIBLE DOOR

PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48' ABOVE FINISH FLOOR. THIS INCLUDES SLIDE BOLTS AND THUMB TURN LOCKS ON GLASS DOORS.

DOORS WITH CLOSERS SHALL HAVE A SWEEP PERIOD

TO A POINT 3" FROM THE LATCH, MEASURED TO THE

FIRE DOORS: MINIMUM ALLOWABLE PER CODE

SO THAT FROM AN OPEN POSITION OF TO DEGREES. THE DOORS WILL TAKE AT LEAST 3 SECONDS TO MOVE

ADA COMPLIANT SIGNAGE

ALL DOORS INCLUDING NON-HABITABLE

PULL SIDE

FRONT APPROACHES (A)

NOTE: X = 36" MIN, IF Y = 60"

NOTE: Y = 54" MIN. IF DOOR

LATCH SIDE APPROACHES (A)

HAS CLOSER

X = 42" MIN. IF Y = 54"

HINGE SIDE APPROACHES (B)

PULL SIDE

AND OCCUPIABLE ROOMS WHICH CAN

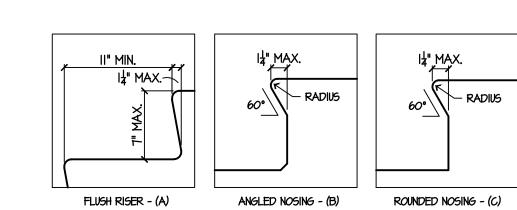
INFORMATION SEE ADAAG - 4.30)

(ADAAG 4.30)

DOOR NOTES

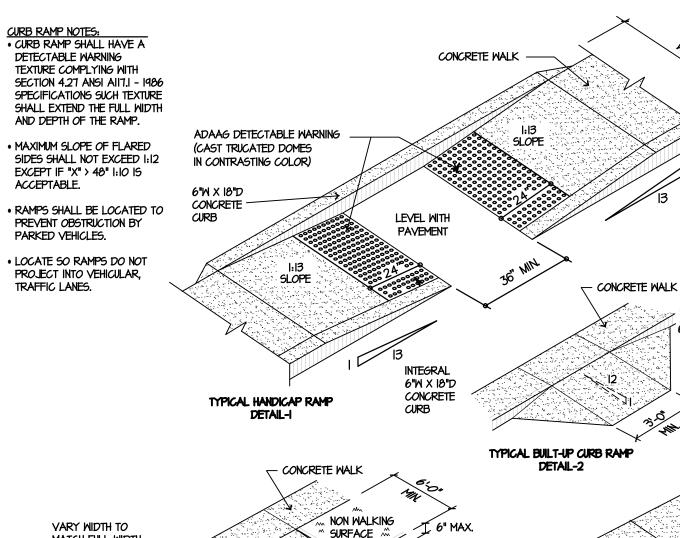
VIEWING DISTANCE 3" MIN. BASED

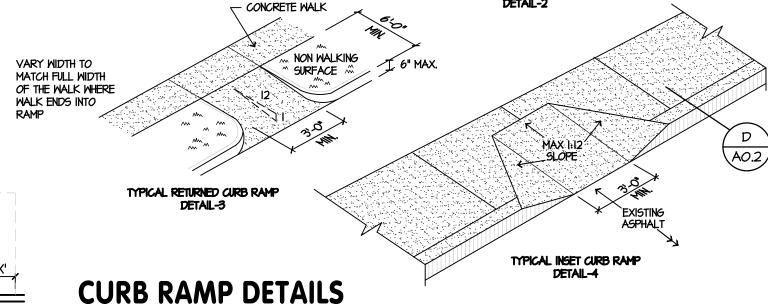
ON UPPER CASE "X", LOWER CASE

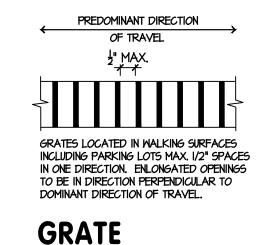


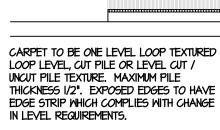
STAIR NOSINGS

USEABLE TREAD WIDTH AND EX. OF ACCEPTABLE NOSINGS (ADAAG 4.9.6 FIGURE IO)

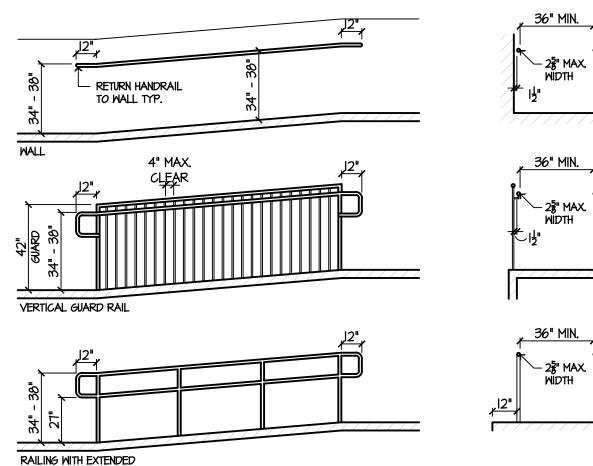


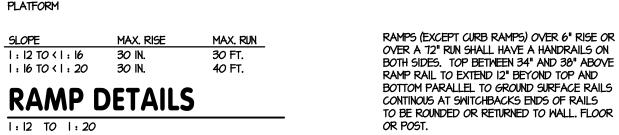






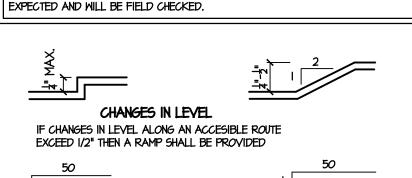
CARPET





AN ALTERATION THAT AFFECTS OR COULD AFFECT THE USEABILITY OF OR ACCESS TO AN AREA CONTAINING A PRIMARY FUNCTION SHALL BE MADE SO AS TO ENSURE THAT TO THE MAXIMUM EXTENT FEASIBLE THE PATH OF TRAVEL TO THE ALTERED AREA AND THE RESTROOMS, TELEPHONES AND DRINKING FOUNTAINS SERVING THE ALTERED AREA ARE READILY ACCESSIBLE TO AND USEABLE BY INDIVIDUALS WITH DISABLITIES. UNLESS SUCH ALTERATIONS ARE DISPROPORTIONATE TO THE OVERALL ALTERATIONS IN TERMS OF COST AND SCOPE. (NOT TO EXCEED 20% OF THE COST OF ALL ALTERATIONS) CONTRACTOR TO PROVIDE DOCUMENTATION TO THE FIELD INSPECTOR TO INDICATE COMPLIANCE WITH 20% OF THE COST OF THE PROJECT IF FULL COMPLIANCE IS NOT MET. FULL COMPLIANCE IS

LOTS, ETC.





LEVEL CHANGES

FOR HANDICAP PARKING SPACES.



6" MAX.

SEE GRADING PLAN

OR

S

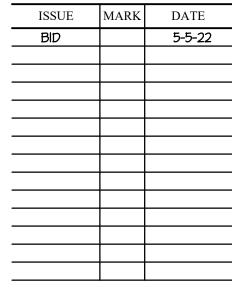
PICKERINGTON (IONERS:

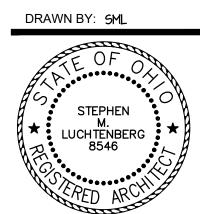
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L-2130





Stephen M. Luchtenberg License No. 8546 Expiration Date: December 31, 2023

COMPLIANT **DETAILS AND GENERAL INFO**

ADA WATER CLOSETS IN SINGLE USE BATHROOMS

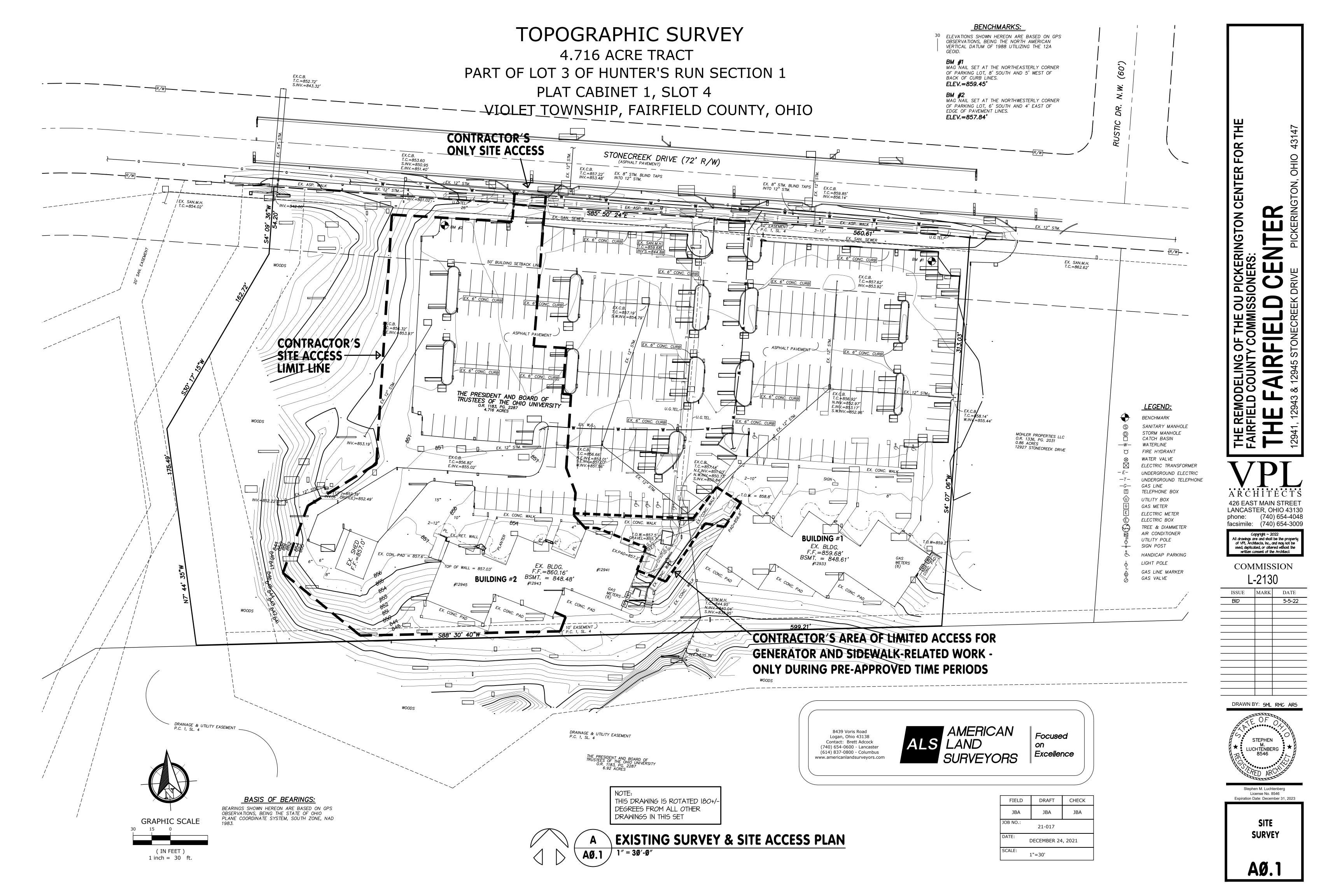
FRONT APPROACH

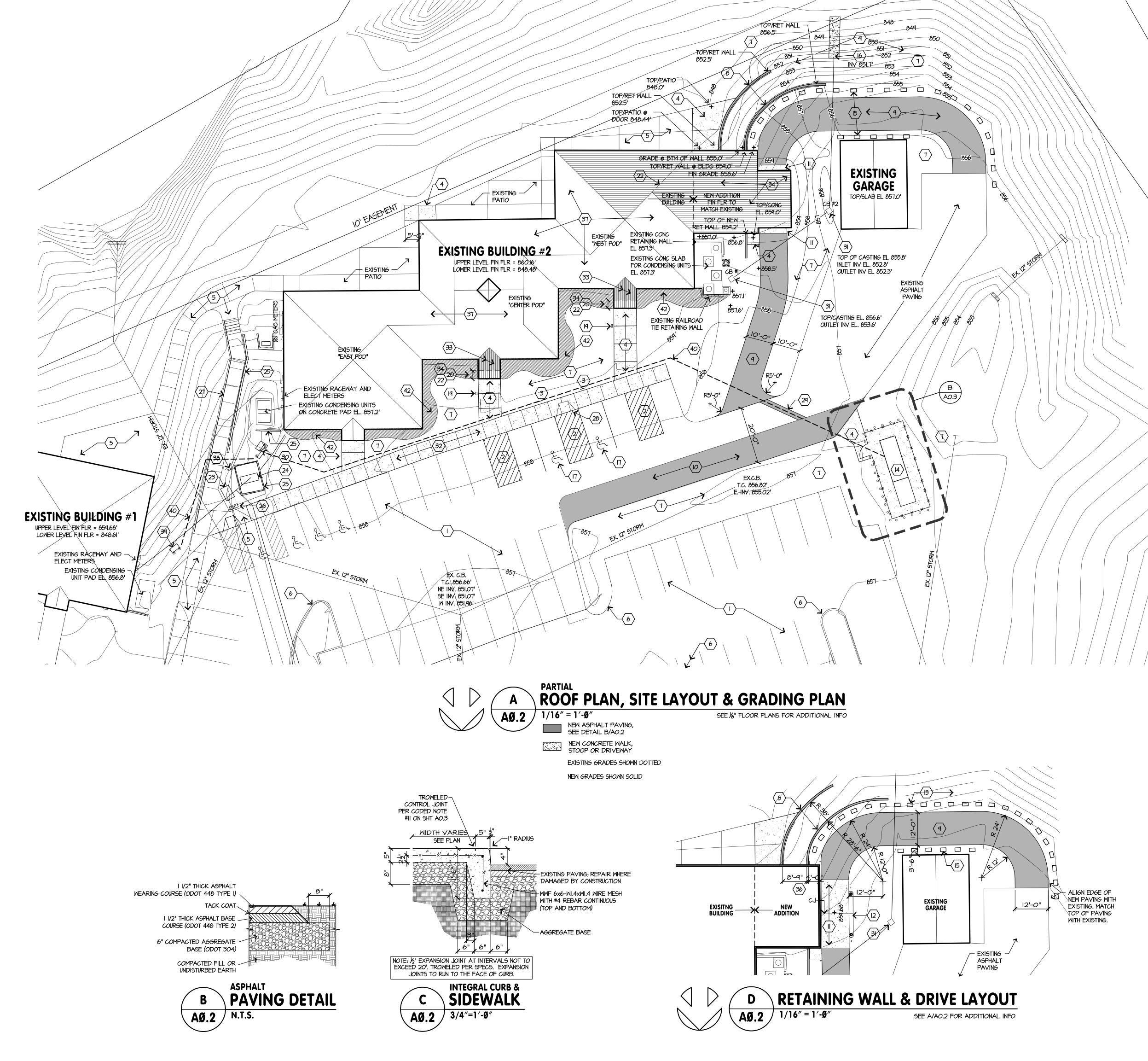
42" min.

54" min. ^{*}

19" MIN 17"-19"

SIDE WALL STD STALL





GENERAL SITEWORK NOTES

PRIOR TO REGRADING WHERE INDICATED, CONTRACTOR TO STOCKPILE ALL TOPSOIL IN AFFECTED AREA TO ONSITE LOCATION SUITABLE TO THE OWNER. WHEN FINISH GRADING, CONTRACTOR SHALL REDISTRIBUTE STOCKPILED TOPSOIL AND BRING IN ADDITIONAL TOPSOIL IS NECESSARY TO PROVIDE MIN 6" LAYER OF TOPSOIL UP TO FINISH GRADE.

CODED NOTES

- I. EXISTING ASPHALT PAVING AND STRIPING TO REMAIN.
- 2. ADD DIAGONAL 4" WIDE PAINT STRIPES AT 24" OC TO EXISTING PARKING SPACE. COLOR AS SELECTED.
- 3. NEW VAN ACCESSIBLE SIGNAGE PER DETAIL ON SHEET ADA. MOUNT SIGNAGE TO GALV I I/2" DIA, SCHED 40 STEEL POLE SET I8" INTO A I2" DIA x 36" DEEP CONCRETE PIER.
- 4. NEW 4" CONCRETE SIDEWALK, STOOP, OR PATIO WITH 6x6 WI.4xWI.4 WWF ON 4" GRAVEL FILL ON UNDISTURBED EARTH OR COMPACTED FILL. BROOM FINISH OPPOSITE DIRECTION OF TRAVEL. PROVIDE TROWELED EDGES AND CONTROL JOINTS. SAWCUT JOINTS ARE NOT ACCEPTABLE. HOLD TOP OF CONCRETE ½" BELOW TOP OF BUILDING SLAB AT ENTRY DOORS. FIELD VERIFY FRONT ENTRY SIDEWALK SLOPES TO SIDEWALK CURB PER DETAIL C/AO.2. SEE ½" PLANS FOR ADDITIONAL INFO.
- EXISTING CONCRETE SIDEWALK OR PATIO TO REMAIN.

 RE-PIN EXISTING LOOSE EXTRUDED CURB SEGMENTS TO EXISTING
 PAVING AT EXISTING LANDSCAPE PARKING LOT ISLANDS. F.V. EXTENT.

 SEED AND STRAW ON MIN OF FINE GRADED TOPSOIL ON ALL
- SEED AND STRAW ON MIN 6" OF FINE GRADED TOPSOIL ON ALL
 DISTURBED LAWN AREAS. WATER DAILY UNTIL OWNER ACCEPTANCE.
 NEW SEGMENTED CONCRETE BLOCK RETAINING WALL PER DETAIL
 A/AO.3. STEP TOP OF UPPER WALL DOWN WITH GRADE. INTEGRAL
- MASONRY COLOR AS SELECTED.

 9. NEW ASPHALT DRIVE (SHOWN SHADED) PER PAVING PROFILE B/AO.2.
 TOP OF ASPHALT AS INDICATED. ALIGN TOP OF NEW PAVING WITH
 ADJACENT EXISTING PAVING. ADJUST RADII OF PORTION OF CURVED
 PORTION OF PAVING AREA AS READ TO LINE UP WITH CONCRETE
 PAVING AT DRIVE THRU AND WITH WEST EDGE OF EXISTING PAVING AT
 WEST SIDE OF GARAGE AS SHOWN.
- IO. WIDEN EXISTING DRIVEWAY WITH NEW ASPHALT PAVING PER PAVING PROFILE B/AO.2. ALIGN TOP OF NEW PAVING WITH EXISTING. SLOPE NEW PAVING 1% NORTHWARD TO SURFACE DRAIN ONTO ADJACENT LAWN AREA.
- II. NEW IO'-O" x 25'-O" CONCRETE DRIVEWAY AT TELLER DRIVE THRU TO BE 6" CONCRETE WITH TWO LAYERS OF IOXIO W2.8xW2.8 WWF ON 6" COMPACTED AGGREGATE BASE (ODOT 304) ON COMPACTED FILL OR UNDISTURBED EARTH. BROOM FINISH OPPOSITE DIRECTION OF TRAVEL. PROVIDE I ½" DEEP TROWELED CONTROL JOINT WHERE SHOWN. TROWEL EDGES OF CONC. TOP OF CONC AT TELLER WINDOW AND DOOR 125 TO BE ELEV. 859.68'. SLOPE CONCRETE DOWN FROM THERE TO BE FLUSH WITH ADJOINING ASPHALT PAVING AT EACH END OF CONCRETE DRIVE. SEE SITE GRADING PLAN A/AO.2 AND FLOOR PLAN A/A2.2 FOR MORE INFO.
- DETAIL B2/A4.I.

 13. NOT USED.
- 14. NEW FENCE-ENCLOSED GENERATOR ON NEW CONCRETE PAD PER ENLARGED PLAN B/AO.3. SEE ELECT DWGS.
- 15. SET NEW SANDSTONE BLOCKS (APPROX SIZE 18"W x 30"L x24"H) AT PERIMETER OF NEW DRIVE AND BETWEEN NEW DRIVE AND EXISTING GARAGE. HOLD FACE OF BLOCKS 24" FROM OUTSIDE EDGE OF PAVING, 18" FROM INSIDE EDGE OF PAVING, WITH APPROX 48" OF
- 16. STORM PIPE TO BREAK GRADE TO SURFACE DRAIN AT INV ELEVATION SHOWN ON PLAN. PROVIDE 4' X 15' RIP RAP BED BEYOND PIPE.
 17. PAINT STANDARD ADA SYMBOL ON EXISTING ASPHALT PAVING.
- 18. CONCRETE RETAINING WALL. SEE D/AO.3.
 19. POST-MOUNTED DOOR OPERATOR BUTTON. SEE FLOOR PLAN SHT A2.2
- FOR MORE INFORMATION, SEE ELECT DWGS.

SPACE BETWEEN BLOCKS AS SHOWN.

- 20. NEW ENTRY ADDITION. FINISH FLOOR TO MATCH EXISTING. 21. NOT USED.
- 22. ALIGN NEW ROOF FRAMING WITH EXISTING FOR SEAMLESS CONNECTION.
 23. EXISTING IN-GROUND UTILITY JUNCTION BOX TO REMAIN.
 24. EXISTING TRANSFORMER AND TRANSFORMER PIT TO REMAIN. SNAKE OUT EXISTING DRAIN PIPE IN PIT AS REQUIRED FOR FREE DRAINAGE OF STORM WATER.
- 25. EXISTING RAILROAD TIE RETAINING WALL TO REMAIN.
 26. EXISITNG 3' HIGH UTILITY PEDESTALS TO REMAIN.
- 27. EXISTING PIPERAIL TO REMAIN.
 28. NEW CURB RAMP PER CURB RAMP DETAIL #4 ON SHT ADA.
- 29. PATCH ASPHALT PAVING AND BASE TO MATCH EXISTING AT NEW GENERATOR CONDUIT TRENCH. COMPACT NEW BASE MATERIAL. SEE ELECT DWGS FOR MORE INFO.
- 30. BASE BID: NEW AUTOMATIC TRANSFER SWITCH, CT CABINET AND ELECTRIC METER MOUNTED TO UNISTRUT (ALL BY EC). SECURE UNISTRUT TO (3) 3" DIA. SCHEDULE 40 GALY STEEL POSTS, EACH SET 18" INTO 12"x36" DP CONC PIERS (POSTS AND PIERS BY GC). TOP OF POSTS TO BE 7' ABOVE FINISH GRADE. GC TO F.V. WITH E.C. THE ORIENTATION AND PRECISE LOCATION OF PIERS AND UNDERGROUND ELECTRICAL CONDUIT TO AVOID EXISTING UNDERGROUND UTILITIES. SEE ELECTRICAL DWGS FOR LOCATIONS OF NEW IN-GROUND UTILITY JUNCTION BOXES AND ADDITIONAL RELATED INFO.
- AND ADDITIONAL RELATED INFO.

 31. NEW ODOT 2-2B CATCH BASIN WITH 12" DUAL WALL ADS STORM PIPE (SHOWN DOTTED) IN STANDARD ODOT TRENCH BEDDING AND BACKFILL. SEE PLAN FOR TOP OF CASTING AND INVERT ELEVATIONS. PROVIDE APPROX 42 LF OF 12" STORM PIPE AT 1.9% BETWEEN CB #1 AND CB #2. PROVIDE APPROX 56 LF OF 12" STORM PIPE AT 1.07% BETWEEN CB #2 AND RIP RAP BED.
- 32. REPLACE EXISTING SIDEWALK AND INTEGRAL CURB WITH NEW 4" CONC SIDEWALK WITH INTEGRAL CURB PER DETAIL C/AO.2. SEE CODED NOTE 4 ABOVE FOR ADDITIONAL INFO. TOP OF SIDEWALK TO BE 4" ABOVE TOP OF EXISTING ASPHALT. PATCH ALL AFFECTED ADJACENT ASPHALT AS REQD TO BLEND WITH EXISTING.
- 33. REMOVE EXISTING SHINGLES AND FELT ON THIS PLANE OF THE EXISTING ROOF (SHOWN SHADED). REAPPLY NEW 4' STRIP OF ICE AND WATER SHIELD AT VALLEYS, HIPS AND PERIMETER EDGES AS REQD, INSTALL NEW .040 PREFINISHED ALUM VALLEYS AND INSTALL NEW 30 YEAR DIMENSIONAL SHINGLES ON NEW 15# FELT ON EXISTING PLYWOOD TO MATCH AND BLEND WITH EXISTING. REWORK EXISTING RIDGES, HIPS AND VALLEYS AS NECESSARY TO BLEND NEW WITH EXISTING.
- AND VALLEYS AS NECESSARY TO BLEND NEW WITH EXISTING.

 34. NEW SHINGLES, FELT, PREFINISHED .040 ALUMINUM VALLEY FLASHING &
 ICE AND WATER SHIELD ON ROOF SHEATHING (SHOWN HATCHED) AS
 NOTED ON SECTIONS.
- 35. NOT USED.
 36. ADJUST CURVATURE OF NEW RETAINING WALLS AS THEY APPROACH THE NEW ADDITION AS REQD FOR THESE DIMENSIONS.
- 37. EXISTING SHINGLES TO REMAIN. (SHOWN UN-HATCHED)
 38. CORE DRILL THRU EXISTING RAILROAD TIE RETAINING WALL FOR NEW 2"
 SCHED 40 PVC STORM WATER RELIEF DRAIN (SHOWN DOTTED). HOLD
 BOTTOM OF PIPE FLUSH WITH TOP OF CONC PAD IN EXISTING
 TRANSFORMER PIT, SLOPE PIPE FOR DRAINAGE AND BREAK GRADE IN
 EXISTING LAWN AREA FOR SURFACE DRAINAGE. SEAL PENETRATION

THRU RAILROAD TIE. FIELD VERIFY EXISTING CONDITIONS AND

- UNDERGROUND UTILITIES IN THIS AREA.

 39. ALT BID: NEW AUTOMATIC TRANSFORMER SWITCH FOR BUILDING #I
 MOUNTED TO UNISTRUT SECURED TO TWO 3" GALV STEEL POSTS SET I8"
 INTO 12" DIA x 36" DEEP CONC PIER. TOP OF POST AT T' ABOVE FINISH
 GRADE. MOUNT NEW METER ON 2" GALV POST SET IN 12"x36" CONC
 PIER ADJACENT TO TRANSFORMER PIT. POSTS AND PIERS BY GC, ALL
 OTHER WORK BY EC. SEE ELECT DWGS FOR ADDITIONAL BREAK-DOWN
- OF BASE BID VS ALT BID WORK.

 40. APPROX PATH OF CONDUIT TRENCHING (SHOWN DOTTED) FROM
 GENERATOR TO NEW AUTOMATIC TRANSFER SWITCHES. SEE ELECT
- 41. REMOVE EXISTING TREES FROM EXISTING HILLSIDE AS REQD FOR REGRADING AS SHOWN. GC TO PLANT EROSION-RESISTANT GROUND COVER IN ALL DISTURBED AREA SOUTH OF THE NEW ADDITION AND LOOP DRIVE SEE ALLOWANCES ARTICLE IN DIVISION OO OF GENERAL NOTES AND EROSION CONTROL ARTICLE IN DIVISION 32 OF THE GENERAL NOTES FOR FURTHER INFO.
- 42. NEW LANDSCAPING AREA (SHOWN HATCHED) BY GC SEE ALLOWANCE ARTICLE IN DIVISION OO OF THE GENERAL NOTES.

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ENLARGED PARTIAL
SITE LAYOUT
PLAN

AØ.2

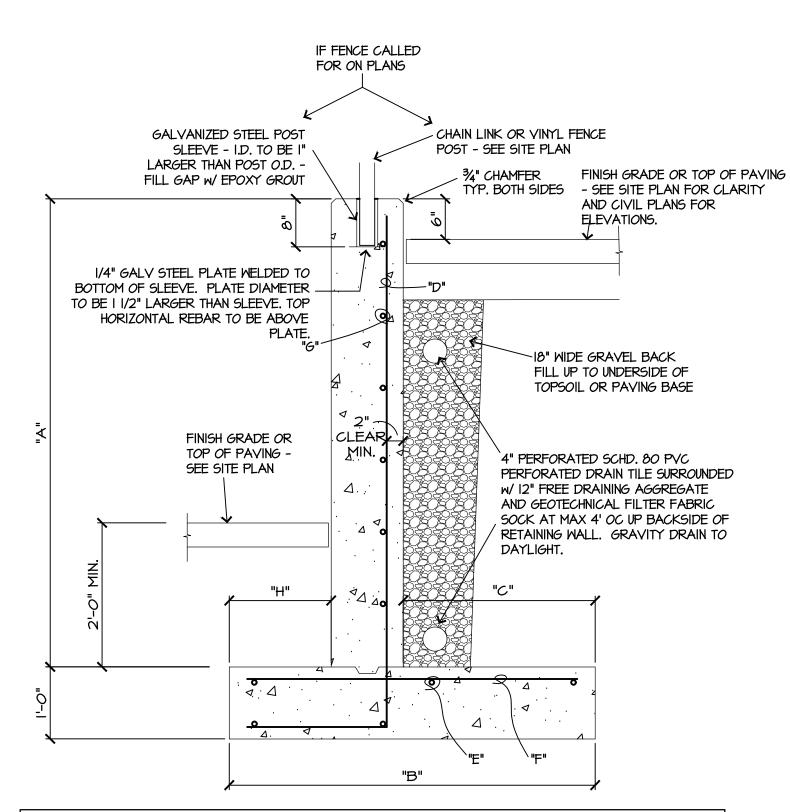
MECHANICALLY STABILIZED SEGMENTAL RETAINING WALL, BUILT WITH 6"T x 12" D x 17W" LONG, KEYSTONED HOLLOW SPLIT FACE BLOCKS WITH REAR LIP (MIDWEST MANUFACTURING'S 'DENVER BEVELED' OR 'ALLEN BLOCK CLASSIC RETAINING WALL SYSTEM' BY READING ROCK OR APPROVED EQUAL). LAY CONTINUOUS 3'-O" WIDE STRIP OF GEOGRID FABRIC OVER EVERY COURSE - HOLD EDGE OF GEOGRID I" BACK FROM EXPOSED FACE OF BLOCK. CUT ALL EXPOSED GEOGRID FLUSH WITH FACE OF BLOCK ABOVE. PROVIDE VERTICAL FIBERGLAS REBAR IN BLOCK CORES AT MAX 24" OC. FILL ALL BLOCK CORES WITH CRUSHED #57s TAMPED IN PLACE. INSTALL 6" MECHANICALLY COMPACTED LIFTS OF CRUSHED 57s BEHIND BLOCK FOR FULL WIDTH OF EXPOSED GEOGRID UNDER AND OVER EVERY LAYER OF GEOGRID. SET RETAINING WALL

ON CONTINUOUS 8" DEEP x 4'-O" WIDE FOUNDATION OF COMPACTED CRUSHED #57s. CAP WALL WITH 4" TALL, KEYSTONED, REAR LIPPED; SOLID SPLIT FACE BLOCKS. 8" OF TOPSOIL DOWN OVER CRUSHED 57s AND FREE DRAINING AGGREGATE - 6" COMPACTED LIFTS OF CRUSHED 57s FINISH GRADE UNDISTURBED EARTH OR COMPACTED FILL `4" PERFORATED DRAIN PIPE IN CONT FILTER SOCK. SLOPE PIPE MIN I % TO BREAK GRADE FOR SURFACE DRAINAGE IN RAVINE. 4'-0" F.V. PATH AND TERMINATION LOCATION.

SEGMENTED CONCRETE BLOCK **RETAINING WALL**

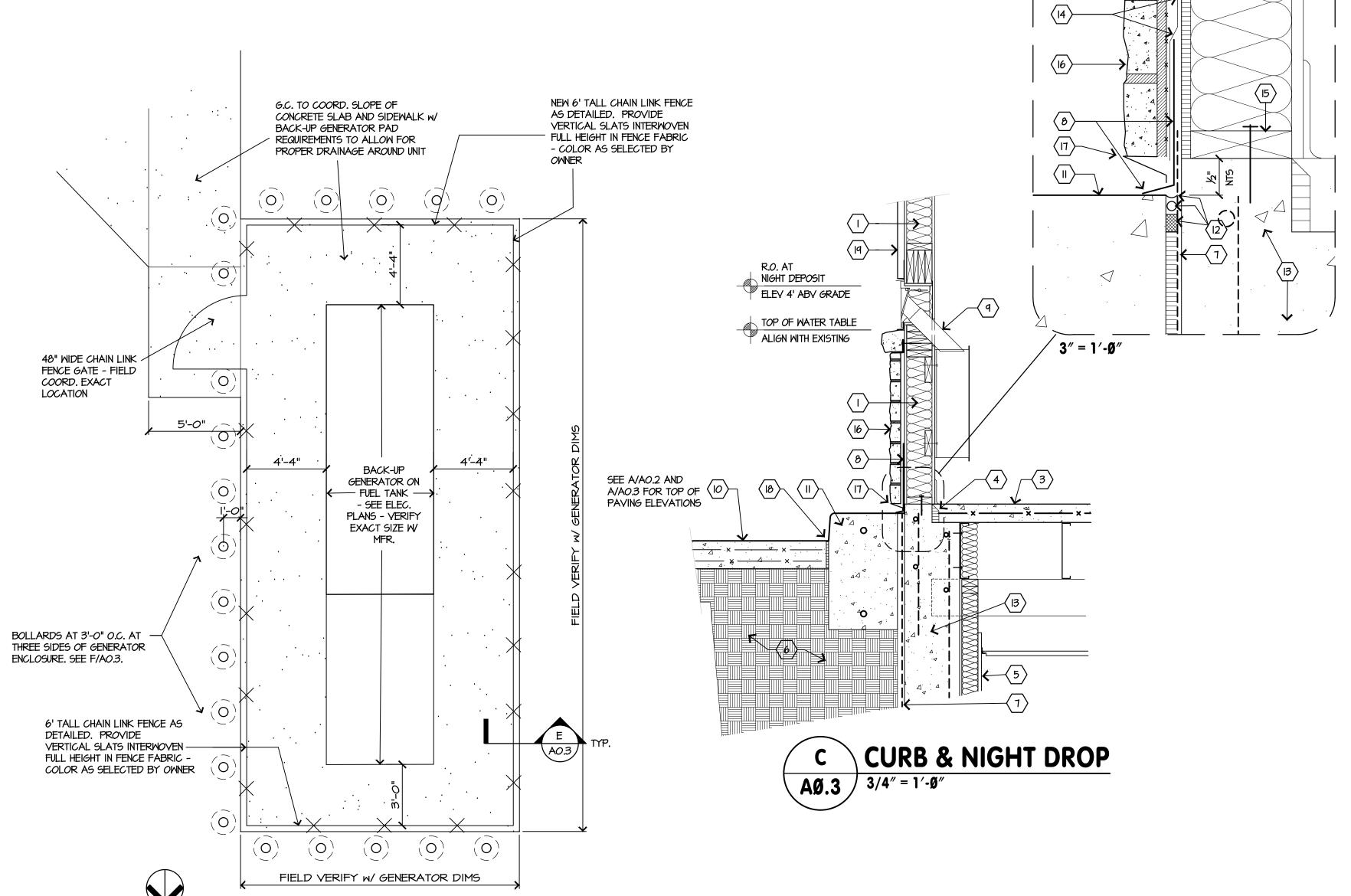
NOT TO SCALE

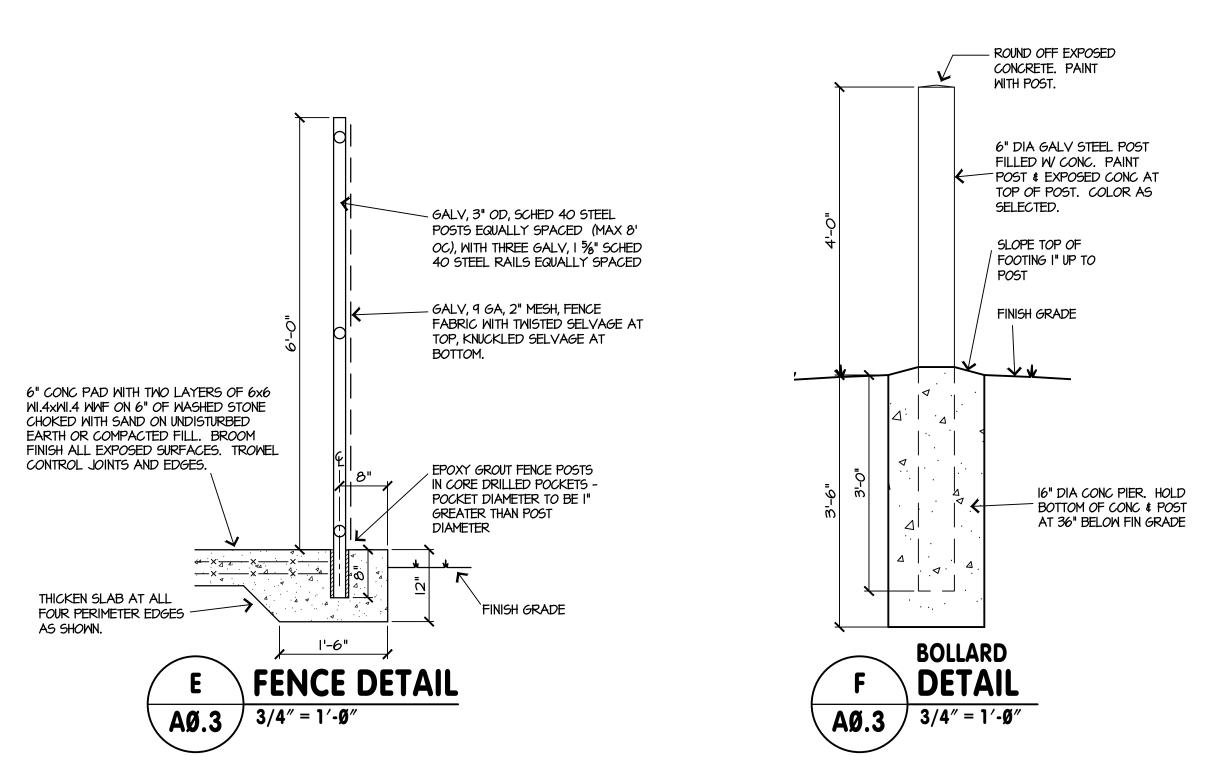
PRIOR TO INSTALLATION, CONTRACTOR TO OBTAIN AND SUBMIT FOR REVIEW THE SPLIT FACE BLOCK MANUFACTURER'S ENGINEERED INSTALLATION INSTRUCTIONS FOR 4' TALL CURVED RETAINING WALL WITH SURCHARGE FROM DRIVE ABOVE ON UPPER WALL AND WITH SURCHARGE ON LOWER WALL FROM UPPER WALL.



RETAINING WALL SCHEDULE									
WALL HEIGHT "A	"B"	"C"	"D"	"E"	"F"	"G"	"H"	WALL THICKNESS	
UP TO 4'-0"	2'-7"	1'-3"	#4 @ 13"	5 -#4	#5 @ I3"	#4 @ I2"	0'-8"	8" THICK WALL	
4'-I" TO 6'-O"	3'-7"	2'-0"	#4 @ I3"	5 -#4	#5 @ I3"	#4 @ I2"	<i>O</i> '-II"	8" THICK WALL	
6'-I" TO 7'-0"	4'-1"	2'-4"	#4 @ I3"	5 -#5	#5 @ I3"	#4 @ I2"	'- "	8" THICK WALL	
7'-1" TO 9'-0"	5'-1"	2'-8"	#4 @ 9"	5 -#5	#4 @ 9"	#5 @ I2"	1'-7"	12" THICK WALL	
9'-1" TO 11'-0"	6'-1"	3'-5"	#5 @ 9"	6 -#5	#4 @ 9"	#5 @ I2"	1'-8"	12" THICK WALL	
II'-I" TO 13'-0"	7'-5"	4'-5"	#7 @ 9"	6 -#6	#6 @ 9"	#5 @ I2"	2'-0"	12" THICK WALL	







ENLARGED PLAN AT

/ 1/4" = 1'-Ø"

GENERATOR ENCLOSURE

CODED NOTES

- BUILDING WRAP/片" WALL SHEATHING / 2 X 6 STUDS AT 16" OC / 6" R-19 BATT INSUL/ % " GYP BD. NOT USED.
- 3. CONC SLAB ON FORM DECK ON STEEL JOISTS. SEE
- STRUCT DWGS.
- 4. CONT STRIP OF 1½" RIGID INSUL AT PERIMETER EDGES OF UPPER LEVEL SLAB. TAPER TOP EDGE AS SHOWN. 5. %" DRYWALL / 2x4 STUDS 16" OC UP TIGHT TO
- UNDERSIDE OF FLOOR JOISTS / 3.5" HI DENS BATT INSULATION / THORO-SEALED CONCRETE FOUNDATION WALL. HOLD STUDS I/4" FROM CONCRETE WALL. 6. COMPACTED GRANULAR BACKFILL.
- CONT WATERPROOF MEMBRANE (SHOWN DOTTED) ADHERED TO ALL CONCEALED, BELOW-GRADE EXTERIOR FACES OF EAST, SOUTH AND WEST WALLS AT PERIMETER OF LOWER LEVEL SPACES. ADHERED MEMBRANE TO EXTEND DOWN ACROSS TOP OF FOOTING AND FRONT FACE OF FOOTING. PRIOR TO BACKFILLING, ADHERE CONTINUOUS 3/4" PROTECTION BOARD TO FACE OF MEMBRANE ON FND WALLS DOWN TIGHT TO TOP OF FTG. SEE SITE GRADING & LAYOUT PLAN FOR FINISH GRADES.
- 8. CONTINUOUS FLASHING, I-O" UPON WALL SHTG & DOWN ON CURB AS SHOWN.
- NIGHT DEPOSITORY CHUTE AND DROP BOX. TAMPER-PROOF, STAINLESS STEEL FACE AND DROP CHUTE WITH LOCKABLE STORAGE BOX; HAMILTON SECURITY #145DB OR APPROVED EQUAL. INSTALL PER MRF'S INSTRUCTIONS. FLASH AND SEAL INTERIOR AND EXTERIOR WALL PENETRATIONS WATERTIGHT. PROVIDE BLOCKING IN WALL AS REQUIRED TO ANCHOR DROP BOX TO WALL. PACK WALL CAVATIES AROUND CHUTE WITH BATT INSULATION.
- 10. CONCRETE PAYING UNDER DRIVE THRU CANOPY SEE SITE LAYOUT PLAN FOR PROFILE AND EXTENT.
- II. 12"W CONCRETE CURB W/ CONT #4 AT TOP AND BOTTOM ON UNDISTURBED EARTH OR COMPACTED FILL. HOLD TOP OF CURB 1/2" BELOW FINISH FLOOR; HOLD BOTTOM OF CURB I'-8" BELOW TOP OF PAYING. PROVIDE I" RADIUS AT EXPOSED TOP CORNER. BROOM FINISH ALL EXPOSED SURFACES. CURB RUNS FULL LENGTH OF WEST WALL OF
- 12. CONT SEALANT/ BACKER ROD/ COMPRESSIBLE SEAL AT TOP EDGE AND BOTH ENDS OF CURB.
- 13. REINF CONC FOUNDATION WALL. SEE FOUNDATION PLAN. 14. EXTEND BUILDING WRAP DOWN OVER FLASHING.
- 15. SET BOTTOM PLATE OF FRAMING IN CONT BED OF SEALANT WHERE ADJACENT TO CURB. 16. CULTURED STONE VENEER / SETTING BED / SCRATCH COAT /
- SELF-FURRED LATH / WALL FRAMING
- 17. CONTINUOUS WEEP SCREED UNDER CULTURED STONE. 18. 岁" EXPANSION MATERIAL
- 19. STUCCO MATCH EXISTING COLOR AND TEXTURE

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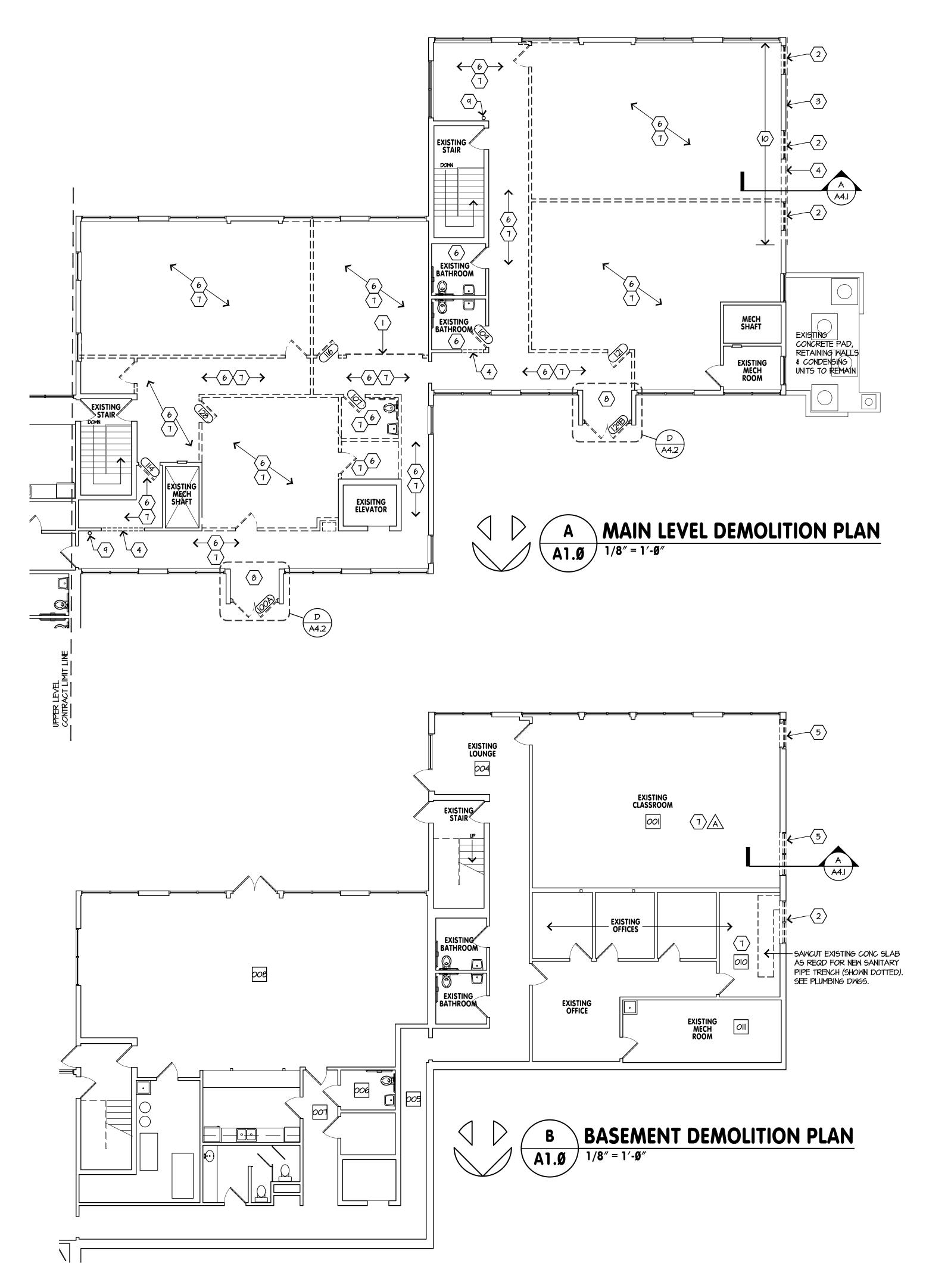
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DETAILS

AØ.3



GENERAL DEMO NOTES

- EXISTING CONSTRUCTION THAT IS TO REMAIN IS SHOWN WITH SOLID LINES. CODED NOTES CALLING FOR EXISTING ITEMS TO REMAIN ARE SHOWN IN VARIOUS PLACES FOR CLARITY
- 2. EXISTING CONSTRUCTION THAT IS SHOWN DOTTED IS TO BE REMOVED.
- 3. ALL UN-NUMBERED DOORS THAT ARE SHOWN DOTTED ARE TO BE CAREFULLY REMOVED (INCLUDING DOOR FRAME AND HARDWARE) AND STORED IN ROOM 008 ON NEW 1/4" PLYWOOD SHEETS.
- 4. ALL **NUMBERED** DOORS THAT ARE SHOWN DOTTED ARE TO BE CAREFULLY REMOVED AND REINSTALLED AT THE LOCATION INDICATED BY THE NUMBER (INCLUDING FRAMES AND HARDWARE UNO ON THE DOOR SCHEDULE). SEE 1/8" FLOOR PLANS ON SHEET A2.2 FOR REINSTALLATION LOCATIONS.
- 5. IF LOCKSET OR PANIC DEVICE ON A NUMBERED DOOR DOES NOT MATCH THE FUNCTION LISTED ON THE DOOR SCHEDULE FOR THAT LOCKSET OR PANIC DEVICE, REMOVE THE EXISTING LOCKSET OR PANIC DEVICE AND STORE IT IN ROOM 008.
- 6. CONTRACTOR IS TO CAREFULLY RELOCATE ALL EXISTING LOOSE FURNISHINGS, CEILING PROJECTOR MOUNTS, PROJECTORS, WHITEBOARDS, PROJECTOR SCREENS AND HOUSING, AND TACKBOARDS THAT HAVE BEEN TAGGED BY OWNER (COORD. WITH OWNER) TO THE EAST END OF ROOM 008. SET ITEMS ON NEW 4'x8'x 从"PLYWOOD BOARDS TO PROTECT EXISTING FLOORING. DISPOSE OF ALL UN-TAGGED ITEMS.
- 7. CAREFULLY REMOVE EXISTING VINYL BASE FROM EXISTING WALLS THAT ARE TO REMAIN IN ROOMS WHERE NEW VINYL BASE IS CALLED FOR ON THE ROOM FINISH SCHEDULE.
- 8. REMOVE ALL EXISTING OHIO UNIVERSITY-RELATED INTERIOR SIGNAGE THROUGHOUT CENTER AND WEST PODS. 9. SEE CODED NOTES THIS SHEET FOR ADDITIONAL ITEMS TO
- IO. SEE EXTERIOR ELEVATIONS FOR CLARITY RE WINDOWS AND PORTIONS OF EXTERIOR WALLS THAT ARE TO BE
- II. SEE MEP DRAWINGS FOR SELECTIVE DEMOLITION OF PLUMBING, ELECTRICAL AND HVAC ITEMS.
- 12. ALL DEMOLITION WORK IS TO BE DONE CAREFULLY SO AS TO MINIMIZE DAMAGE TO ADJACENT CONSTRUCTION AND FINISHES THAT ARE TO REMAIN.
- 13. SEE DIVISION 2 IN THE GENERAL NOTES FOR ADDITIONAL DEMOLITION INFO.

CODED NOTES

- REMOVE EXISTING FIRE SHUTTER.
- REMOVE EXISTING WINDOW. 3. REMOVE EXISTING STUCCO AND EXTERIOR SHEATHING. EXISTING WALL FRAMING TO REMAIN UNLESS NOTED
- 4. REMOVE PORTION OF EXISTING DRYWALL PARTITION FOR ROUGH OPENING FOR NEW DOOR OR BORROWED LITE. REMOVE EXISTING WINDOW AND SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE WALL OR REMOVE

EXISTING MASONRY UNDER WINDOW AS REQ'D FOR NEW

- DOOR OPENING. SEE PLAN C/A2.2 AND ELEV B & D/A3.1 FOR MORE INFORMATION. REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING TILE
- AND GRID IN THIS ROOM. REMOVE EXISTING FLOORING IN THIS ROOM. 8. REMOVE EXISTING DRYWALL CEILING AND SOFFIT IN THIS
- 9. REMOVE EXISTING FIRE EXTINGUISHER AND BRACKET AND
- STORE IN ROOM 008. IO. REMOVE EXISTING DW FROM EXISTING WALL FRAMING AT NEW ADDITION.

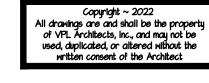
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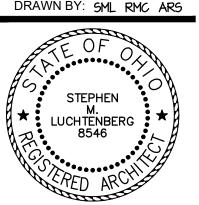
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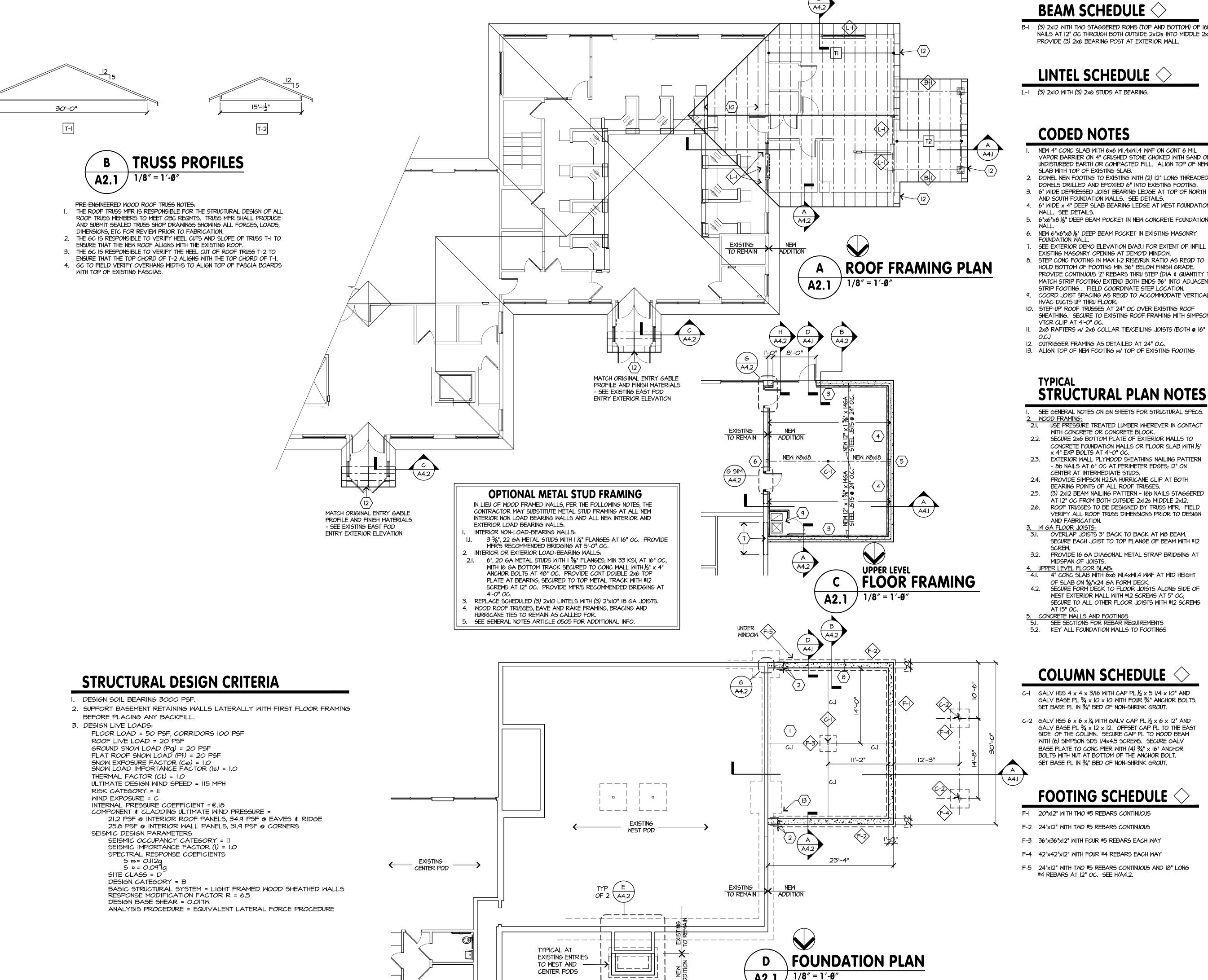
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> **DEMO PLANS**



BEAM SCHEDULE \diamondsuit

B-I (3) 2x12 WITH TWO STAGGERED ROWS (TOP AND BOTTOM) OF 16b NAILS AT 12" OC THROUGH BOTH OUTSIDE 2x12s INTO MIDDLE 2x12. PROVIDE (3) 2x6 BEARING POST AT EXTERIOR WALL.

LINTEL SCHEDULE \diamondsuit

L-I (3) 2xIO WITH (3) 2x6 STUDS AT BEARING.

CODED NOTES

- NEW 4" CONC SLAB WITH 6x6 WI.4xWI.4 WWF ON CONT 6 MIL VAPOR BARRIER ON 4" CRUSHED STONE CHOKED WITH SAND ON UNDISTURBED EARTH OR COMPACTED FILL. ALIGN TOP OF NEW
- 2. DOWEL NEW FOOTING TO EXISTING WITH (2) 12" LONG THREADED DOWELS DRILLED AND EPOXIED 6" INTO EXISTING FOOTING.
- AND SOUTH FOUNDATION WALLS. SEE DETAILS. 4. 6" WIDE x 4" DEEP SLAB BEARING LEDGE AT WEST FOUNDATION
- 5. 6"x6"x8 %" DEEP BEAM POCKET IN NEW CONCRETE FOUNDATION
- 6. NEW 6"x6"x8 1/6" DEEP BEAM POCKET IN EXISTING MASONRY
- 7. SEE EXTERIOR DEMO ELEVATION B/A3.I FOR EXTENT OF INFILL AT
- EXISTING MASONRY OPENING AT DEMO'D WINDOW. 8. STEP CONC FOOTING IN MAX I:2 RISE/RUN RATIO AS REQD TO
- HOLD BOTTOM OF FOOTING MIN 36" BELOW FINISH GRADE. PROVIDE CONTINUOUS 'Z' REBARS THRU STEP (DIA & QUANTITY TO MATCH STRIP FOOTING) EXTEND BOTH ENDS 36" INTO ADJACENT STRIP FOOTING. FIELD COORDINATE STEP LOCATION. 9. COORD JOIST SPACING AS REQD TO ACCOMMODATE VERTICAL
- HVAC DUCTS UP THRU FLOOR. IO. 'STEP-UP' ROOF TRUSSES AT 24" OC OVER EXISTING ROOF
- SHEATHING. SECURE TO EXISTING ROOF FRAMING WITH SIMPSON YTCR CLIP AT 4'-0" OC. II. 2x8 RAFTERS w/ 2x6 COLLAR TIE/CEILING JOISTS (BOTH @ 16"
- 13. ALIGN TOP OF NEW FOOTING W/ TOP OF EXISTING FOOTING

STRUCTURAL PLAN NOTES

SEE GENERAL NOTES ON GN SHEETS FOR STRUCTURAL SPECS.

<u>2. WOOD FRAMING:</u> 2.I. USE PRESSURE TREATED LUMBER WHEREVER IN CONTACT WITH CONCRETE OR CONCRETE BLOCK. 2.2. SECURE 2x6 BOTTOM PLATE OF EXTERIOR WALLS TO

- x 4" EXP BOLTS AT 4'-0" OC. 2.3. EXTERIOR WALL PLYWOOD SHEATHING NAILING PATTERN - 86 NAILS AT 6" OC AT PERIMETER EDGES; 12" ON
- CENTER AT INTERMEDIATE STUDS. PROVIDE SIMPSON H2.5A HURRICANE CLIP AT BOTH
- BEARING POINTS OF ALL ROOF TRUSSES. (3) 2x12 BEAM NAILING PATTERN - 16b NAILS STAGGERED
- AT 12" OC FROM BOTH OUTSIDE 2x12s MIDDLE 2x12. 2.6. ROOF TRUSSES TO BE DESIGNED BY TRUSS MFR. FIELD
- VERIFY ALL ROOF TRUSS DIMENSIONS PRIOR TO DESIGN AND FABRICATION. 14 GA FLOOR JOISTS:
- OVERLAP JOISTS 3" BACK TO BACK AT WE BEAM. SECURE EACH JOIST TO TOP FLANGE OF BEAM WITH #12
- 3.2. PROVIDE 16 GA DIAGONAL METAL STRAP BRIDGING AT
- UPPER LEVEL FLOOR SLAB: I.I. 4" CONC SLAB WITH 6x6 WI.4xWI.4 WWF AT MID HEIGHT
- OF SLAB ON %"x24 GA FORM DECK. 4.2. SECURE FORM DECK TO FLOOR JOISTS ALONG SIDE OF WEST EXTERIOR WALL WITH #12 SCREWS AT 5" OC; SECURE TO ALL OTHER FLOOR JOISTS WITH #12 SCREWS
- CONCRETE WALLS AND FOOTINGS

 II. SEE SECTIONS FOR REBAR REQUIREMENTS

COLUMN SCHEDULE

- C-I GALV HSS 4 x 4 x 3/16 WITH CAP PL 1/2 x 5 1/4 x 10" AND GALV BASE PL $\frac{3}{4}$ x IO x IO WITH FOUR $\frac{3}{4}$ " ANCHOR BOLTS. SET BASE PL IN 34" BED OF NON-SHRINK GROUT.
- C-2 GALV HSS 6 x 6 x ¼ WITH GALV CAP PL ½ x 6 x 12" AND GALV BASE PL 34 x 12 x 12. OFFSET CAP PL TO THE EAST SIDE OF THE COLUMN. SECURE CAP PL TO WOOD BEAM WITH (6) SIMPSON SDS 1/4x4.5 SCREWS. SECURE GALV BASE PLATE TO CONC PIER WITH (4) 3/4" x 16" ANCHOR BOLTS WITH NUT AT BOTTOM OF THE ANCHOR BOLT. SET BASE PL IN 3/4" BED OF NON-SHRINK GROUT.

FOOTING SCHEDULE

- F-I 20"x12" WITH TWO #5 REBARS CONTINUOUS
- F-2 24"x12" WITH TWO #5 REBARS CONTINUOUS
- F-3 36"x36"x12" WITH FOUR #5 REBARS EACH WAY
- F-4 42"x42"xI2" WITH FOUR #4 REBARS EACH WAY
- F-5 24"x12" WITH TWO #5 REBARS CONTINUOUS AND 18" LONG #4 REBARS AT I2" OC. SEE H/A4.2.

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STRUCTURAL PLANS **SCHEDULES & ROOF TRUSS PROFILES**

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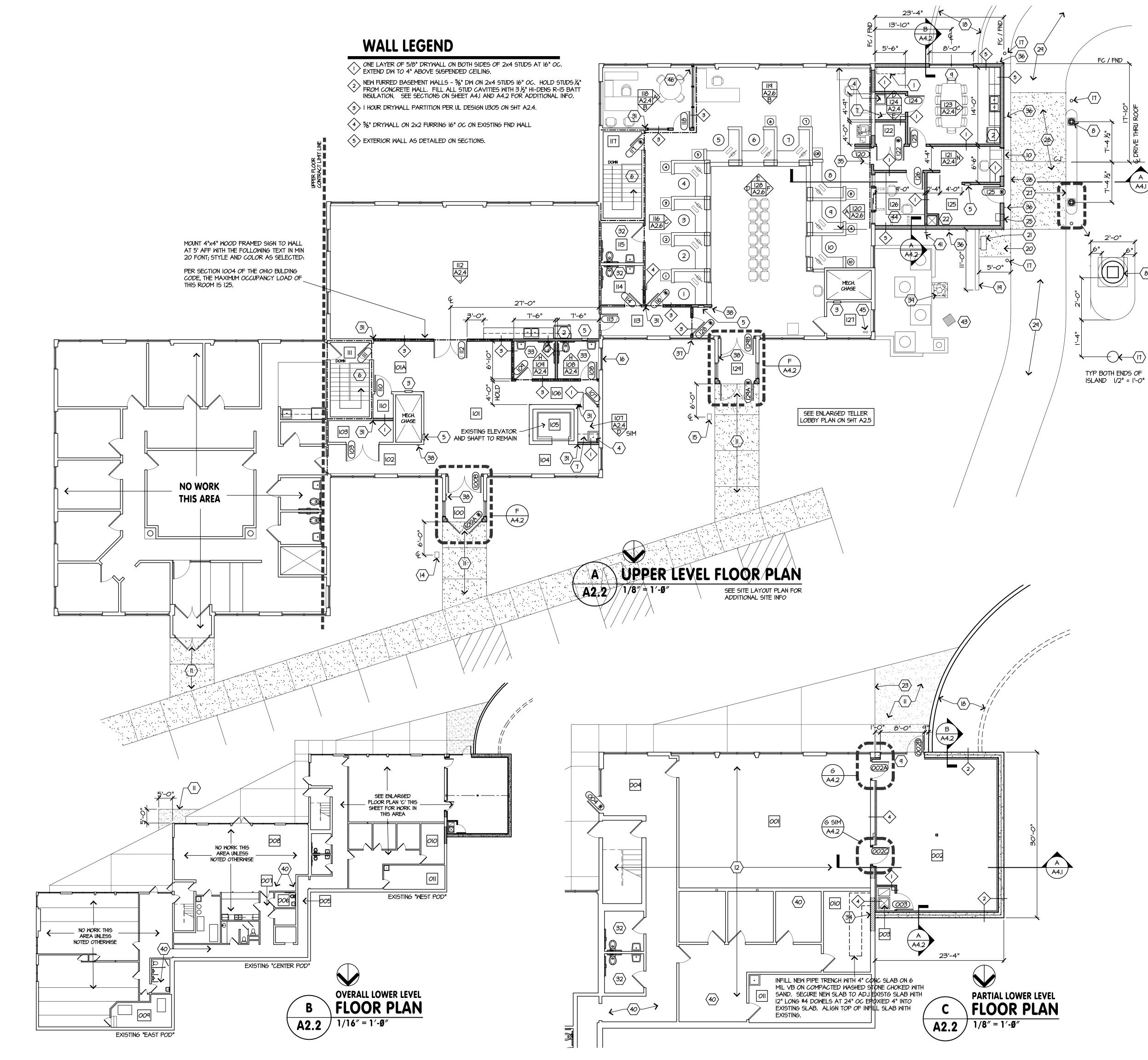
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GENERAL PLAN NOTES

- I. DOOR TAG W/ * INDICATES CONTROLLED ACCESS DOOR, SEE DOOR
- SCHEDULE FOR DETAILS.

 2. FURNITURE LAYOUT ON OVERALL PLANS SHOWN FOR REFERENCE ONLY, NO PART OF CONSTRUCTION CONTRACT, ALL LOOSE FURNITURE WILL BE
- SUPPLIED BY SEPARATE VENDOR, UNDER SEPARATE CONTRACT.

 3. ALL INTERIOR DIMENSIONS ARE SHOWN FROM FACE OF EXISTING SURFACE
- OR FACE OF NEW DRYWALL.

 4. SEE DOOR SCHEDULE AND ASSOCIATED DOOR AND FRAME DETAILS FOR
- DIMENSIONS AT DOOR OPENINGS.

 SEE ROOM FINISH SCHEDULE FOR ALL FINISHES AND BASE TYPES.

 ALL FINISHES AND FINISH MATERIAL COLORS / STYLES (AND PATTERN)
- ALL FINISHES AND FINISH MATERIAL COLORS / STYLES (AND PATTERNS II APPLICABLE) ARE TO BE SELECTED FROM MANUFACTURERS STANDARD
- 7. ALL DRYWALL WITHIN 5' OF A PLUMBING FIXTURE IS TO BE MOISTURE
- PROVIDE CONTINUOUS HORIZONTAL FIRE BLOCKING AT MAXIMUM 9'-O" VERTICAL INTERVALS PER OBC 718.2 IN ALL VERTICAL STUD WALL
- CAVITIES, INCLUDING FURRING CAVITIES.

 I. PROVIDE SOLID WOOD BLOCKING AS REQUIRED AT ALL WALL MOUNTED CASEWORK, SHELF STANDARDS, GRAB BARS, AND MISC WALL-MTD ITEMS

 O. AT ALL LOCATIONS WHERE EXISTING WALL HAS BEEN DEMOD, PATCH
- DAMAGED ADJACENT REMAINING WALL TO MATCH AND BLEND WITH EXISTING.
- II. AT ALL LOCATIONS WHERE AN EXISTING WALL MOUNTED ITEM HAS BEEN DEMOD, PATCH WALL TO MATCH AND BLEND WITH EXISTING ADJ WALL.

 12. FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, FLOORS AND
- 12. FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS, FLOORS AND CEILINGS WITH HILTIFS-ONE INTUMESCENT FIRESTOP SEALANT OR APPROVED EQUAL. (TESTED IN ACCORDANCE WITH UL 1479, ASTM E 814 AND ASTM E 84; PROTECTS FOR UP TO FOUR HOUR FIRE RATING. APPLY PER MFR'S INSTRUCTIONS.

CODED NOTES

- 5'-0" LONG WALL MOUNTED CLOSET ROD & SHELF UNIT AT 5'-0" AFF. PROVIDE BLOCKING IN WALL AS REQ'D. REFRIGERATOR BY OWNER.
- ELECTRIC PANEL SEE ELECT PLANS.
- NEW 24"x24" MOP SINK. SEE PLUMBING PLANS.
- 5. NEW IO LB ABC FIRE EXTINGUISHER AND CABINET. HOLD & AT 48" AFF.
 6. EXISTING STAIR TO REMAIN AS IS.
 7. ADJUSTABLE SHELVING (QUANTITY AND DEPTH AS NOTED ON INTERIOR
- ELEVATIONS.)
 8. I2" DIAMETER PAINTED FIBERGLASS COLUMN ENCLOSURE (AS
- SPECIFIED) AROUND STEEL COLUMN SEE FRAMING PLAN.
 NEW WINDOW, SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE.
- 9. NEW WINDOW, SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE.

 10. TELLER WINDOW & TRANSACTION DRAWER. SECURE 1/2" STEEL PLATE

 TO STUDS BELOW WINDOW, SEE DETAIL O/A2.4.
- II. 4" CONCRETE PATIO OR SIDEMALK W/ 6x6 WI.4xWI.4 WWF OVER 4" WASHED STONE CHOKED W/ SAND ON UNDISTURBED EARTH OR COMPACTED FILL BROOM FINISH (OPPOSITE DIRECTION OF TRAVEL) WITH TROWELED EDGES AND CONTROL JOINTS. HOLD TOP OF SIDEWALK ½" BELOW INTERIOR FLOOR AT DOOR. SLOPE PATIO AWAY FROM BUILDING AT MAX ½" PER FOOT. SLOPE ENTRY SIDEWALK AWAY FROM BUILDING AS REQ'D TO BE FLUSH WITH TOP OF NEW SIDEWALK AT EXISTING PARKING LOT.
 - OTHERWISE.
- I3. NOT USED.
 I4. REINSTALL EXISTING DOOR OPERATOR BUTTON AT THIS LOCATION.
 MOUNT TO NEW PAINTED 6x6 SCHED 40 GALV STEEL TUBE POST SET 12"
 INTO 12" DIA x 36" DEEP CONC PIER. HOLD TOP OF PIER FLUSH WITH

GRADE. HOLD TOP OF POST AT 36" ABOVE GRADE. PAINT POST

- COLOR AS SELECTED. CONCEAL ASSOCIATED WIRING INSIDE POST. SEE ELECT DWGS.

 15. NEW POST-MOUNTED DOOR OPERATOR BUTTON. NEW POST AND PIER
- PER CODED NOTE 14 THIS SHEET. SEE ELECT DWGS.

 16. APPLY OPAQUE FILM TO INTERIOR FACE OF EXISTING WINDOW
- 6. APPLY OPAQUE FILM TO INTERIOR FACE OF EXISTING WINDOW GLAZING.

 17. NEW PAINTED STEEL BOLLARD PER DETAIL F/AO.3. COLOR AS
- 18. NEW SEGMENTED CONC BLOCK RETAINING WALL. SEAL JOINT BETWEEN
- RETAINING WALL AND BUILDING WALL. SEE A/AO.2 & A/AO.3

 19. NEW CONCRETE RETAINING WALL. SEE D/AO.3.
- 20. 5x5 CONCRETE PAD AT MAILBOX (SAME PROFILE AS DESCRIBED IN CODED NOTE #II ABOVE). HOLD TOP OF SLAB FLUSH WITH ADJACENT PAVING.
- 21. REMOVE OWNER'S EXISTING EXTERIOR MAILBOX UNIT FROM THE EXISTING FAIRFIELD COUNTY CLERK OF COURTS OFFICE (AT 485 NORTH HILL RD., PICKERINGTON OHIO), TRANSPORT TO SITE, AND REBOLT THE UNIT TO THIS NEW CONCRETE PAD, CENTERED ALONG THE EAST SIDE OF
- THE PAD AS SHOWN.

 22. HVAC DUCT CHASE, 25" x 25" +/- OUTSIDE TO OUTSIDE DIM. VERIFY
- SIZE WITH DUCTING REQMTS. SEE MECH DWGS.

 23. HOLD TOP OF NEW CONCRETE PATIO FLUSH WITH TOP OF ADJACENT PATIO.
- 24. NOT USED. 25. THRU WALL MAIL SLOT - SEE C/AO.3.
- 26. CONCRETE CURB AT WEST WALL SEE C/AO.3.

ACCESSORIES.

- 27. RAISED CONCRETE ISLAND SEE B2/A4.I.
 28. IO'-O" x 25'-O" CONCRETE DRIVE UNDER CANOPY ROOF. SEE C/AO.2
 FOR PROFILE CREST DRIVE AT TELLER WINDOW W/ TOP OF SLAB AT
- ELEV. 859.68' & SLOPE DOWN FROM THERE TO BE FLUSH WITH ADJOINING ASPHALT PAVING AT EACH END OF CONCRETE DRIVE. SEE SITE GRADING PLAN AT A/AO.2 FOR MORE INFO.

 29. ASPHALT PAVING. SEE B/AO.2.
- 30. PLAS LAM WORK COUNTER SEE INTERIOR ELEVATIONS.
 31. ALIGN & BLEND WALL FINISHES.
- 32. EXISTING PLUMBING FIXTURES, GRAB BARS, MIRROR, TOILET PAPER
- HOLDER AND PAPER TOWEL DISPENSER TO REMAIN.

 33. NEW PLUMBING FIXTURES PER PLUMBING PLANS. NEW GRAB BARS & MIRRORS PER INTERIOR ELEVATIONS & SHEET ADA. OWNER TO PROVIDE AND INSTALL NEW TOILET PAPER HOLDER & PAPER TOWEL DISPENSER. GC TO PROVIDE ALL BLOCKING AS REQ'D FOR ALL
- 34. INFILL M.O. AT DEMO'D HIGH WINDOW THIS LOCATION. %" DRYWALL (ALIGN AND BLEND WITH EXISTING) ON FURRING STRIPS ON CONC BLOCK TO MATCH WIDTH OF EXISTING BLOCK. STUCCO EXTERIOR FACE WHERE EXPOSED ABOVE GRADE TO MATCH AND BLEND WITH EXISTING. SEE EXTERIOR ELEVATIONS FOR EXTENT.
- 35. ADD NEW 5" FIRECODE DW TO BOTH SIDES OF EXISTING WALL FRAMING UP TIGHT TO ROOF BEARING TO PROVIDE ONE-HOUR FIRE RATED WALL PER UL DESIGN U305 AS DETAILED ON SHEET A2.4. REWORK FRAMING AS REQUIRED AT NEW DOOR AND BORROWED LITES.
- 36. 2" x 3" PREFINISHED ALUMINUM DOWNSPOUT. CONNECT TO RECTANGULAR TO ROUND BOOT (THROUGH CONCRETE CURB AT WEST WALL). TIE TO EXISTING UNDERGROUND BUILDING STORM DRAINAGE
- SYSTEM.

 37. CENTER NEW WALL ON EXISTING WINDOW FRAME. EXTEND WALL UP ONTO WINDOW SILL & TERMINATE TIGHT TO EXISTING ALUM WINDOW FRAME W/
- .040 ALUMINUM BRAKE METAL. PAINT SAME COLOR AS WALL.
 38. WALL MOUNTED DOOR OPERATOR BUTTON AT 36" AFF.
 39. NEW CONDENSING UNIT; PROVIDE NEW 36"x36" CONC PAD ON COMPACTED FILL. REINF SLAB WITH 6x6 WI.4xWI.4 WWF. ALIGN TOP OF
- NEW SLAB WITH ADJACENT EXISTING SLAB. SEE HVAC DWGS.

 40. REPLACE ANY CEILING GRID SEGMENTS AND/OR CEILING PANELS THAT ARE DAMAGED OR MARRED BY ABOVE CEILING PLUMBING OR ELECTRICAL WORK IN THIS AREA. NEW GRID AND PANELS TO MATCH
- 41. NEW FREEZE-PROOF HOSE BIBB SEE PLUMBING DRAWINGS.
 42. FRAME IN NEW R.O.S IN EXISTING WALL FOR NEW HM BORROWED LITES
 WITH OPERABLE SLIDING GLASS PANELS AT CENTER SECTION AND NEW
 WALL MOUNTED ONE HOUR RATED ROLLING COUNTER SHUTTER ABOVE
 OPERABLE WINDOW. SEE INTERIOR ELEVATIONS.
- 43. NEW CATCH BASIN SEE SITE LAYOUT AND GRADING PLAN.44. SEE ENLARGED PLAN K/A2.5 FOR ADDITIONAL DIMENSIONS AND INFO FOR THIS ROOM.
- 45. CORE DRILL (2) 4" DIA. OPENINGS THRU EXISTING FLOOR SLAB. SEE ELECT DWGS FOR FIRE RATED CONDUITS THRU OPENINGS.
 46. NEW PAINTED HM BORROWED LITE FRAME TO BE CENTERED ON EXISTING EXTERIOR ALUMINUM WINDOW FRAME WRAP BACKSIDE OF HOLLOW METAL FRAME W/ ALUM BRAKE METAL PAINTED SAME COLOR

THE REMODELING OF THE OU PICKERINGTON FAIRFIELD COUNTY COMMISSIONERS:

THE FAIRFIELD CHIPFINGTON

A R C H I T E C T S 426 EAST MAIN STREET LANCASTER, OHIO 43130 phone: (740) 654-4048

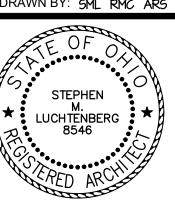
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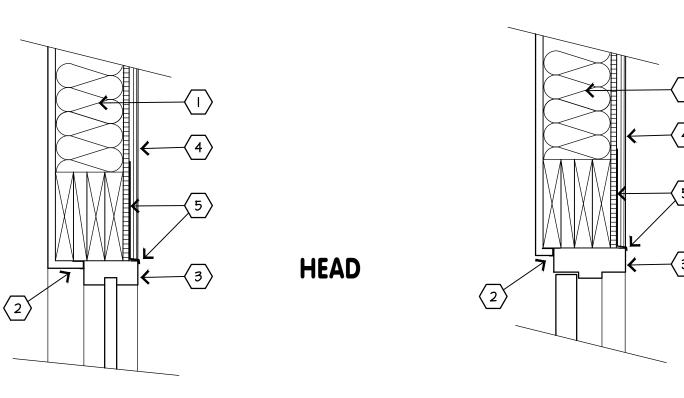
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Stephen M. Luchtenberg
License No. 8546
Expiration Date: December 31, 2023

FLOOR PLANS

A2.2



JAMB

DOOR DETAIL CODED NOTES

- WALL AS SCHEDULED. TERMINATE DRYWALL WITH J BEAD AT DOOR FRAME. DOOR (OR TRANSOM) AND FRAME AS SCHEDULED. FINISH, BROWN & SCRATCH COATS OF STUCCO.
- OVER FRONT FACE OF FRAME. CONT SEALANT AND BACKER ROD. SURFACE MTD DOOR SWEEP. 8. ADA COMPLIANT THRESHOLD SET IN CONT BED OF

SEALANT.

14. CONT SEALANT.

5. FLASHING UP 12" BEHIND STUCCO AND DOWN 1/6" TIGHT

9. CONCRETE SIDEWALK 10. 为" EXPANSION JOINT. CONC SLAB, RIGID INSULATION AND FOUNDATION WALL AS DETAILED ELSEWHERE.

12. EXTERIOR CURB AND PAVING AT DRIVE THRU. 13. VINYL BASE ON DRYWALL RETURN (BEYOND).

I. IF NEW WORK THAT REQUIRES PAINTING IS INSTALLED ADJACENT TO AND IN LINE WITH EXISTING CONSTRUCTION, THE ADJACENT EXISTING

EC = ELECTRICAL CONTRACTOR

DOOR SCHEDULE NOTES OSC = OWNER'S PREFERRED SECURITY ACCESS

I. GC TO REPLACE EXISTING PANIC HARDWARE W/ NEW ELECTRIFIED PANIC

4. EXISTING DOOR TO REMAIN IN PLACE. REPLACE EXISTING LEVER LOCKSET

5. EXISTING DOOR TO REMAIN IN PLACE. ADD FOB READER; REPLACE LEVER

AFF WITH CONCEALED CONDUIT FROM FOB READER AND, AS REQD, FROM ELECTRIFIED HARDWARE TO 4" ABOVE CEILING. EC TO ALSO PROVIDE

AND INSTALL ABOVE CLG POWER SUPPLY UNIT AND INSTALL ALL LOW

VOLTAGE WIRING FROM IT TO ALL ELECTRIFIED HDWR AND FOB. SEE

9. PROVIDE HEAVY DUTY ADA COMPLIANT DOOR OPERATOR AT DOORS AT

INTERIOR DOORS. SEE ELECT DWGS FOR DOOR OPERATOR BUTTON

EXTERIOR WALLS, STANDARD DUTY ADA COMPLIANT DOOR OPERATOR AT

LOCATIONS AND FOR WHICH LEAF THE BUTTON IS TO CONTROL IN DOUBLE

IO. EC TO PROVIDE AND INSTALL VON DUPRIN SERIES 6200 ELECTRIC STRIKE

II. EC TO PROVIDE AND INSTALL VON DUPRIN POWER SUPPLY PS 902 ABOVE

QEL-9947-WDC-DT-F AT INTERIOR WOOD EGRESS DOORS; AND VON DUPRIN

ELECTRIFIED TRANSFER HINGE EPT-IO. EC TO INSTALL ALL REQD LOW

COVERPLATE OVER KEYPAD MOUNTING SCREWS. PROVIDE COVERPLATE

CEILING, GC TO PROVIDE AND INSTALL VON DUPRIN EXIT DEVICE

12. PROVIDE DOUBLE PRONGED COAT HOOK AT CENTERLINE OF BATHROOM

15. REMOVE EXISTING KEYPAD FROM WEST LEAF. PROVIDE DECORATIVE

17. APPLY VINYL NUMBER '12945' TO TRANSOM. MATCH EXISTING DOOR 129A

18. APPLY VINYL NUMBER 12943' TO TRANSOM, MATCH EXISTING DOOR 100A

OR APP EQ. REWORK EXISTING DOOR FRAME AS REQD.

QEL-9947-DT AT HOLLOW METAL AND ALUMINUM DOORS,

13. APPLY ONE-WAY VISION FILM TO GLASS PANEL IN DOOR.

IN ACCORDANCE WITH NFPA 80.

14. THIS DOOR IS EXIT ONLY. NO EXTERIOR HARDWARE.

2. EC TO REPLACE EXISTING SECURITY KEYPAD WITH NEW FOB READER. 3. PROVIDE DUMMY LEVER, STRIKE AND HEAD AND FOOT BOLT ON EAST

W NEW AS SCHEDULED. INSTALL W KEY ON STAIR SIDE.

GENERAL FINISH NOTES

FINISH SCHEDULE ABBR.

BY OWNER

CONCRETE

SELECTED EXISTING

GLASS BLOCK

GLAZED BRICK

RECESSED SLAB

CSCS

CONC BLOCK PAINTED

CONC SLAB CLEANED AND

CERAMIC TILE (SIZE AS NOTED) DRYWALL PAINTED, COLOR AS

EXISTING TERAZZO, RESTORED AS

FIBERGLASS REINFORCED PLASTIC

EXISTING VINYL TILE REFINISHED

LUXURY VINYL WOOD PLANK

NEW EPOXY TERRAZZO AT

CONSTRUCTION IS TO BE PAINTED OVER TO THE NEAREST CHANGE IN MATERIAL OR CORNER. 2. PRIOR TO PAINTING EXISTING WALLS OR CEILINGS THAT ARE SCHEDULED TO TO BE PAINTED, THE CONTRACTOR IS TO PATCH ALL MARRED AREAS OF

PAINTED, COLOR AS SELECTED

NON-SLIP RUBBER LANDING

NON-SLIP RUBBER TREADS AND

NON-SLIP RUBBER TREADS AND

2x4 SUSP ACOUSTIC TEGULAR

LAY-IN CLG PANELS, CENTER SCORED FOR 2x2 APPEARANCE

COVED VINYL BASE (HEIGHT

WOOD - SPECIES AS SPEC'D

2X4 SUSP ACOUSTIC LAY-IN CLG

EXISTING EXPOSED ROOF

3/4" PLYWOOD

STRIKTURE

STAINED

ROOM FINISH SCHEDULE NOTES

WHERE SHOWN ON INTERIOR ELEVATIONS).

FRAMING AT EAST WALL OF ROOM.

I. ADHERE 5' HIGH FRP PANELS TO WALLS ADJACENT TO MOP

OR SERVICE SINK (AND BEYOND MOP OR SERVICE SINK

2. NEW 5/8" PAINTED DRYWALL OVER EXISTING EXTERIOR WALL

3. REPAIR / REPLACE CERAMIC TILE FLOORING AND CERAMIC

4. REMOVE EXPOSED EXISTING BATH ACCESSORY WALL

TILE BASE TO MATCH EXISTING WHERE AFFECTED IN ROOM

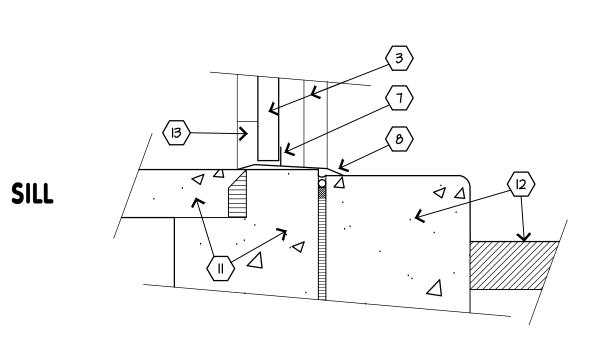
MOUNTING DEVICE AND PATCH WALL TO MATCH EXISTING.

INDICATED)

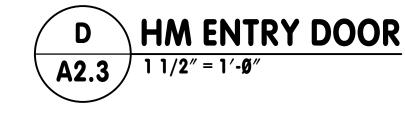
PLWD

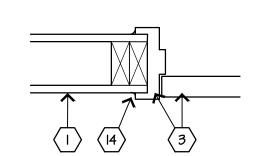
- THE EXISTING WALLS OR CEILINGS. 3. ALL SCHEDULED FINISH MATERIALS ARE NEW UNLESS NOTED WITH AN 'E' PREFIX
- 4. ALL EXISTING FINISHES AND FLOORING THAT ARE SCHEDULED TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION.
- 5. PROVIDE MOISTURE RESISTANT DRYWALL WHERE

WITHIN 5' OF A PLUMBING FIXTURE. 6. EXISTING FINISHES IN EXISTING ROOMS THAT ARE NUMBERED ON THE PLANS, BUT DON'T APPEAR ON THE ROOM FINISH SCHEDULE ARE TO REMAIN AS IS UNLESS NOTED OTHERWISE.

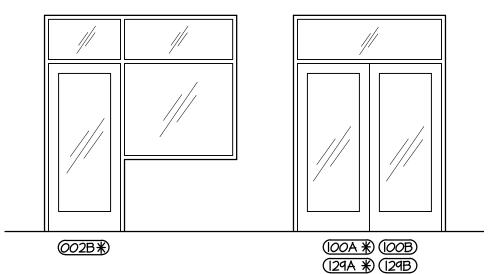


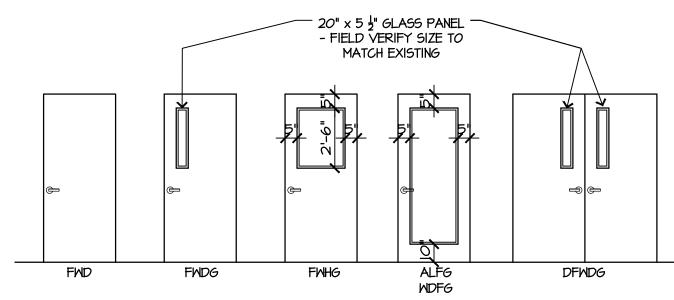
ALUM ENTRY DOOR / 1 1/2" = 1'-Ø"











DOOR AND FRAME ELEVATIONS

INTERIOR GLAZING TYPES

- VISION PANELS 100 SQ IN OR LESS IN FIRE RATED DOORS IN TWO HOUR RATED FIRE PARTITIONS TO BE FIRE PROTECTION RATED GLAZING BEARING 'D-H-90'
- VISION PANELS THAT ARE GREATER THAN IOO SQUARE INCHES IN FIRE RATED DOORS IN ONE HOUR RATED FIRE PARTITIONS SHALL BE FIRE RESISTANCE RATED GLAZING WITH A TEMPERATURE RISE RATING OF 450 DEGREES FAHRENHEIT, AND SHALL BE FIRST TESTED TO MEET THE ASTM EII9 CRITERIA, THEN SHALL BE TESTED AS A COMPONENT OF THE DOOR IN ACCORDANCE WITH NFPA 252.
- THIS GLAZING SHALL BEAR 'D-20' MARKING. SIDELIGHT AND TRANSOM GLAZING IN FIRE RATED DOOR FRAMES IN ONE HOUR RATED FIRE PARTITIONS SHALL BE 3/4 HOUR FIRE PROTECTION-RATED GLAZING MEETING THE TESTING REQMTS OF NFPA 252 AND SHALL BEAR 'D-H-OH-45'
- VISION PANELS THAT ARE GREATER THAN IOO SQ INCHES IN BORROWED LITE, 'FIRE WINDOWS' LOCATED IN ONE HOUR RATED FIRE PARTITIONS SHALL HAVE 3/4 HOUR FIRE PROTECTION-RATED GLAZING MEETING THE TESTING REQMTS OF NFPA 257 OR UL 9 AND SHALL PASS THE TEST REQMTS OF CPSC 16

AND STRIKE AS SCHEDULED. REPLACE EXISTING LEVER LOCKSET AND STRIKE AS SCHEDULED. . EC IS TO PROVIDE AND INSTALL SURFACE MOUNTED FOB READER AT 42"

- I. CLEAR (UNO) LAMINATED SINGLE PANE 1/4" SAFETY GLAZING SHALL BE INSTALLED IN ALL GLASS PANELS IN INTERIOR DOORS, SIDELIGHTS, TRANSOMS AND BORROWED LITES; AND WHERE INSTALLED IN FIRE RATED CORRIDORS, SHALL BE RATED, TESTED AND MARKED AS FOLLOWS:

- CFR, PART 1201

I. PRIOR TO INSTALLATION OF EXISTING DOORS, FRAMES OR

19. PROVIDE MAGNETIC HOLD OPEN. SEE ELECTRICAL DRAWINGS. EC = ELECTRICAL CONTRACTOR

ELECT DWGS.

DOOR OPENINGS.

VOLTAGE WIRING.

SIDE OF DOOR AT 66" AFF.

ON EXISTING LEAF ALSO.

FONT, SIZE AND POSITIONING.

FONT, SIZE AND POSITIONING.

16. REMOVE VINYL SIGNAGE FROM TRANSOM.

PROVIDE HEAVY DUTY CLOSER.

- HARDWARE, GC TO INSPECT SAID ITEMS & REPORT TO THE ARCHITECT OF ANY DEFECTS FOUND ON THEM. 2. CONTRACTOR TO REPAINT ALL RELOCATED EXISTING HM DOOR FRAMES, COLOR AS SELECTED; AND TO RESTAIN/REPAINT BLEMISHES ON EXISTING RELOCATED WOOD DOORS TO BLEND WITH EXISTING UNBLEMISHED SURFACE.

GENERAL DOOR NOTES OSC = OWNER'S PREFERRED SECURITY ACCESS

- 3. NEW HARDWARE TO MATCH EXISTING STYLE & FINISH. NEW WOOD DOORS TO MATCH EXISTING SPECIES & FINISH. NEW ALUMINUM DOORS TO MATCH EXISTING FINISH.
- 4. SCHEDULED DOOR SIZE EXPLANATION: 4.1. 3070 = 3'-0" x 7'-0" DOOR
- 4.2. $30610 = 3'-0" \times 6'-10" DOOR$ 6070 = TWO 3'-0" x 7'-0" DOORS UNDER ONE 6'-0"W x 7'-0"H FRAME (INSIDE DIMENSIONS)
- 5. CONTRACTOR TO BID HARDWARE FINISH US26D/626-652, SATIN CHROME. 6. WHERE CLOSER IS SCHEDULED, PROVIDE HEAVY DUTY CLOSER @ EXTERIOR DOORS; STANDARD DUTY CLOSER @ INTERIOR DOORS.
- 7. ALL UN-NUMBERED DOORS ON PLANS ARE EXISTING DOORS THAT ARE TO REMAIN UNCHANGED (UNLESS NOTED OTHERWISE). 8. CONTRACTOR TO PROVIDE BLOCKING AS REQD AT WALL STOP LOCATIONS IN DRYWALL PARTITIONS.
- 9. ALL SCHEDULED INTERIOR SIGNAGE IS TO BE MOUNTED AT 60" AFF TO CENTERLINE OF SIGN, EITHER ON THE WALL DIRECTLY ADJACENT TO THE DOOR OR AT THE CENTERLINE OF THE DOOR PER ADAAG 4.30. PRIOR TO INSTALLATION, VERIFY LOCATIONS WITH OWNER AND ARCHITECT. IO. SECURITY ACCESS SYSTEM DRAWINGS WILL BE SUBMITTED TO
- PERMITTING AUTHORITIES BY THE OWNER'S SECURITY SYSTEM CONSULTANT THRU THE GC. THE OWNER'S PREFERRED OSC IS MID OHIO VALLEY INTEGRATED SYSTEMS (MOVIS), AND THE SECURITY SYSTEM IS TO BE LENEL. OSC CONTACT IS JAMIE WILLIAMS AT

- II. ALL EGRESS DOORS SHALL PROVIDE FREE EGRESS AT ALL
- 12. FIRE RATED DOOR ASSEMBLIES ARE TO BE TESTED IN ACCORDANCE WITH NFPA 252 OR UL IOC, AND SHALL BE LABELED
- 13. PRIOR TO SUBMITTING SHOP DRAWINGS, CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CONDITIONS AT DOOR OPENINGS SCHEDULED FOR NEW DOORS TO BE FIELD FIT INTO EXISTING FRAMES OR FOR NEW FRAMES TO BE FIT INTO M.O.'S.
- 14. ALL HOLLOW METAL FRAMES TO BE WELDED. ALL NEW HOLLOW METAL BORROWED LITE FRAMES TO BE WELDED. 15. ELEVATOR INSTALLER IS TO WIRE AND INTERFACE EXISTING
- ELEVATOR CONTROLS WITH OWNER'S DOOR SECURITY ACCESS CONTROL PANEL IN ROOM 005 IN ORDER TO PROVIDE FOB-ONLY ACCESS TO BOTH FLOORS. 16. THE EC WILL PROVIDE AND INSTALL SECURITY ACCESS CONTROL PANEL, ALL ELECTRIFIED STRIKES WHERE SCHEDULED, DOOR
- POSITION SWITCHES AT ALL FOBBED DOORS, ALL REQD ABOVE-CEILING POWER MODULES AND ALL FOB READERS. THE GC SHALL PROVIDE ALL OTHER SCHEDULED ELECTRIFIED HARDWARE. THE EC SHALL PROVIDE ANY REQ'D CONDUIT IN WALLS FOR SECURITY SYSTEM WIRING AND SHALL PROVIDE RECEPTACLES ABOVE CEILINGS AS SHOWN FOR POWER SUPPLY MODULES. THE GC AND EC SHALL COORD THEIR WORK WITH THE OSC.
- 17. HOLLOW METAL FRAME MFR IS TO PREP ALL DOOR FRAMES WHERE NECESSARY FOR SECURITY ACCESS EQUIPMENT AND ASSOCIATED ELECTRIFIED HARDWARE.

18. REFER TO DOOR DETAILS ON SHT ADA FOR TYPICAL REQUIRED

- ACCESSIBILITY CLEARANCES. 19. SEE SPECS FOR ADDITIONAL INFO. 20. REFER TO DOOR AND BORROWED LITE GLAZING SCHEDULE FOR ALL DOORS SCHEDULED TO HAVE VISION PANELS, TRANSOMS OR
- SIDELIGHTS. 21. SEE FRAME AND DOOR ELEVATIONS ON THIS SHEET.

ROOM NUMBER	ROOM NAME	FLOOR MATERI	BASE MATERIAI	NORTH	EAST	SOUTH	WEST	CEILING MATER	CEILING HEIGH	NOTES
001	OPEN OFFICE	CPTSQ	4" VB	EDWP	EDWP	EDWP	DWP	E	E	
002	OPEN OFFICE	LVT	4" VB	DWP	DWP	DWP	DWP	SAP	9'-0"	
003	MECHANICAL CLOSET	CSCS	4"VB	DWP	DWP	DWP	DWP			
010	OFFICE	CPTSQ	4"VB	EDWP	EDWP	EDWP	EDWP	E	E	
100	AIR LOCK	LVT	4" VB	DWP	DWP	DWP	DWP	DWP	EP	
101	LOBBY	LVT	4" VB	EDWP	EDWP	DWP	DWP	SAP-1	9'-0"	
102	CORRIDOR	LVT	4" VB	EDWP	EDWP	EDWP		SAP-1	9'-0"	
103	I.T. CLOSET	LVT	4" VB	EDWP	EDWP	DWP	EDWP	SAP-1	9'-0"	
104	CORRIDOR	LVT	4" VB	EDWP		DWP	EDWP	SAP-1	9'-0"	
105	ELEVATOR				EXIST	ING TO REMAI	N			
106	CORRIDOR	LVT	4" VB	DWP		DWP	EDWP	SAP-1	9'-0"	
107	JANITORS CLOSET	LVT	6" VB	DWP/FRP	EDWP/FRP	DWP	EDWP/FRP	SAP-1	8'-0"	1
108	ADA RESTROOM	LVT	6" VB	DWP	DWP	DWP	DWP	SAP-1	8'-0"	
109	ADA RESTROOM	LVT	6" VB	DWP	DWP	DWP	DWP	SAP-1	8'-0"	
110	CLOSET	LVT	6" VB	DWP	EDWP	EDWP	EDWP	SAP-1	8'-0"	
111	STAIR LANDING	E	E	E	E	E	E	E	E	
112	CONFERENCE ROOM	CPTSQ	4" VB	DWP	EDWP	EDWP	EDWP	SAP-1	9'-0"	
113	CORRIDOR	CPTSQ	4" VB	EDWP	EDWP	DWP	DWP	SAP-1	9'-0"	
114	RESTROOM	LVT	6" VB	EDWP	EDWP	EDWP	EDWP	SAP-1	8'-0"	3
115	RESTROOM	LVT	6" VB	EDWP	EDWP	EDWP	EDWP	SAP-1	8'-0"	
116	TELLER STATIONS	CPTSQ	4" VB	DWP	EDWP	DWP/G		SAP-1	9'-0"	
117	STAIR LANDING	E	E	E	E	E	E	E	E	
118	OFFICE	CPTSQ	4" VB	DWP/G	EDWP	EDWP	DWP/G	SAP-1	9'-0"	
119	TELLER STATIONS	CPTSQ	4" VB		DWP/G	EDWP	DWP	SAP-1	9'-0"	
120	TELLER STATIONS	CPTSQ	4" VB	DWP			EDWP/G	SAP-1	9'-0"	
121	CORRIDOR	LVT	4" VB	DWP	DWP	DWP	DWP/G	SAP-1	9'-0"	
122	SAFE CLOSET	LVT	4" VB	DWP	DWP	DWP	DWP	SAP-1	8'-0"	2
123	BREAK ROOM	LVT	4" VB	DWP	DWP	DWP	DWP	SAP-1	9'-0"	2
124	JANITORS CLOSET	LVT	6" VB	DWP	DWP/FRP	DWP/FRP	DWP	SAP-1	8'-0"	1, 2
125	STORAGE	LVT	4" VB	DWP	DWP	DWP	DWP	SAP-1	9'-0"	
126	OFFICE	CPTSQ	4" VB	DWP	DWP/G	DWP	DWP	SAP-1	9'-0"	2
127	EXISTING MECH CLOSET					NG TO REM				
128	WAITING ROOM/LOBBY	LVT	4" VB	EDWP	DWP		EDWP	SAP-1	9'-0"	
129	AIR LOCK	LVT	4" VB	DWP	DWP	DWP	DWP	DWP	EP	

ROOM FINISH SCHEDULE

WALL MATERIAL

		1	129	A	IR LO	OCK					LV	T	4	' VB	3	D	WP			DWI	?		DV	VP		D	WP		D	WP	TV	EP	
								A	DOC	OR A	NI	H	AR	D	WA	RE	S	CH	E	U	LE	EXIS	STING WIN SH	ITEMS IADED	TO BE , SEE I	RELO DEMO	CATE	D ARE					
DOOR NUMBER	DOOR TYPE	DOOR SIZE	DOOR THICKNESS	DOOR FINISH	FRAME WIDTH	FRAME TYPE	FRAME FINISH	FIRE RATING OF OPNG	JAMB DETAIL ON THIS SHT UNLESS OTHERWISE NOTED	HEAD DETAIL ON THIS SHT UNLESS OTHERWISE NOTED	DEADBOLT	PIANO HINGES	CLOSER(S)	THRESHOLD	INSULATED CORE	WEATHERSTRIPING	ш,	ADA DOOR OPERATOR(S)	KICKPLATE	WALL STOP(S)	FLOOR STOP(S)	OVERHEAD STOP	PUSHBAR & OFFSET PULL	ADA LEVER	PANIC HARDWARE	ELECTRIFIED PIANO HINGES	ELECTRIFIED STRIKE	ELECTRIFIED PANIC HDWR	FOB READER	OFFSET PULL	SIGNAGE	LOCKSET FUNCTION	NOTES
		_									UP	_	-	_	_								_			_							
100A	DALFG	6070	1 3/4	PF	4 1/2	AL	PF	/	C	C	/	/	•	•	•	•	•	•	1	/	••	/	/	/	/	••	/	••	•	••	/	/	7,8,9,11,1
100B	DALFG	6070	1 3/4	PF	4 1/2	AL	PF	/			/	••	•	/	/	/		•		••	/	/	••	/	/	/	/	/	/	/	1	/	9
103	DFWD	6070	1 3/4	PS	5 3/4	HM	P	/	В	В	/	/	/	/	/	/	/		/	••	/	/	/	••	/	/	/	/	/	/	7	F86	3
107	EFWD	3070	1 3/4	PS	5 3/4	EHM	P		В	В	/	/	•	/	/	/			••	•	/	/	/	/	/	/	/	/	/	/	7	F86	
108	FWD	3070	1 3/4	PS	5 3/4	HM	P	20	В	В	/	/	•	/	/	/	/		••	•	/	/	/	•	/	/	/	/	/	/	6	F76	12
109	EFWD	3070	1 3/4	PS	5 3/4	EHM	P	20	В	В	/	/	•	/	/	/	/		•	•	/	/	/	•	/	/	/	/	/	/	6	F76	12
110	FWD	3070	1 3/4	PS	5 3/4	HM	P	/	В	В	/	/	/	/	/	/	/		/	•	/	/	/	•	/	/	/	/	/	/	7	F86	
111	EWD	3070	1 3/4	PS	5 3/4	EHM	P	90	В	В	/	/	•	/	/	/	/	/		•	/	/	/	•	/	/	/	/	/	/	4	F75	4
112	DFWDG	6070	1 3/4	PS	5 3/4	HM	P	20	В	В	/	/	••	/	/	/			/	/	/	/	/	••	••	/	/	/	/	/	/	F75	
113	FWD	3070	1 3/4	PS	5 3/4	HM	P	20	В	В	/	/	•	/	/	/	/			•	/	/	/	•	•	/	/	/	/	/	/	F75	
114	EFWD	3070	1 3/4	PS	5 3/4	EHM	P	20	В	В	/	/	•	/	/	/	/			••	/	/	/	•	/	/	/	/	/	/	5	F82	11
116	EFWDG	3070	1 3/4	PS	5 3/4	EHM	P	20	В	В	/	/	•	/	/	/			•	•	/	/	/	•	/	/	•	/	•	/	7	F86	6,7,10,13
117	EWD	3070	1 3/4	PS	5 3/4	EHM	P	90			/	/	•	/	/	/				•	/	/	/	•	/	/	•	/	•	/	4	F86	5,6,7,10
118	WDFG	3070	1 3/4	PS	5 3/4	HM	P	20	В	В	/	/	•	/	/	/				/	•	/	/	•		/	/	/	/	/	/	F82	
120	FWDHG	3070	1 3/4	PS	5 3/4	HM	P	20	В	В	/	/	•	/	/	/				/	/	•	/	•	/	/	/	/	/	/	/	F75	19
122	DFWD	5070	1 3/4	PS	5 3/4	HM	P	/	В	В	/	/	/	/	/	/			/	/	/	•	/	•	/	/	•	/	•	/	/	F86	3,7,10
123	FWDG	3070	1 3/4	PS	5 3/4	HM	P		В	В	/	/	/	/	/	/				•	/	/	/	•	/	/	/	/	/	/	/	F75	
124	FWD	3070	1 3/4	PS	5 3/4	HM	P	/	В	В	/	/	/	/	/	/				/	/	/	/	•	/	/	/	/	/		/	F75	
125	FHM	3070	1 3/4	P	5 3/4	HM	P		D	D	/	/	•	•	•	•	•				/	•	/	•	/	/	•	/	•	/		F86	7,10
126	FWDG	3070	1 3/4	PS	5 3/4	HM	P	/	В	В	/	/	/		/	/				•	/	/	/	•	/	/	/	/	/	/	/	F75	
128	EFWDG	3070	1 3/4	PS	5 3/4	EHM	P	20	В	В	/	/	•		1	/	/		•	•	/	/	/	/	/	/	•	/	•	/	/	F86	6,7,10,13
129A	DALFG	6070	1 3/4	PF	4 1/2	AL	PF		C	C	/	/	•	•	•	•	•	•		/	••	/	/			••	/	••	•	••	/	/	7,8,9,11,1
129B	DALFG	6070	1 3/4	PF	4 1/2	EAL	PF				/	••	•	/	/	/		•		••	/	/	••	/	/	/		/	/	/	1		9,16
										1	LOV	WE	RΙ	EV	ΈI	D	00	RS															
002A	FWD	3070	1 3/4	PS	5 3/4	HM	P	/	G/A4.2		/	/	•	/	/	/		/	/	/	/	/	/	•	/	/	/	/	/	/	/	F82	1
002B	FHM	3070	1 3/4	P	5 3/4	HM	P	/	/	D/A4.1	•	/	•	•	•	•	•	/		/	•	/	/	•	/	/	/	/	/	/	1		14
002C	FWD	3070	1 3/4	PS	5 3/4	HM	P	/	G/A4.2		/	/	•	/	/	/		/		/	/	/	/	•	/	/	/	/	/	/	/	F82	
003	FWD	3070	1 3/4	P	5 3/4	HM	P	/	В	В	/	/	/	/	/	/		/		/	/	/	/	•	/	/	/	/	/	/	7	F75	
004	ALFG	3070	1 3/4	PF	4 1/2	EAL	PF	/	/	/	/	/	•	•	•	•	•	/	/	/	/	/	/	•	/	/	/	•	•	•	1	/	11

DOOR SCHED ABBREVIATIONS

BI-FOLD

BI-PASS DOUBLE

STAINED

- FULL GLASS MEDIUM STILE * CONTR TO FIELD VERIFY TO FIT EXISTS CONDITIONS FWD FLUSH SOLID CORE WOOD
- FHM FLUSH HOLLOW METAL HOLLOW METAL 24x30 SAFETY GLASS PANEL AT TOP HALF *
- 6x30 SAFETY GLASS PANEL AT LATCH SIDE * PAINTED. COLOR AS SELECTED PREFINISHED, COLOR AS SELECTED BY ARCHITECT FROM MFR'S STD COLOR RANGE
- SAFETY GLASS*
- F91 KEY IN EITHER LEVER LOCKS OR DITO FIXED LEVER. PROVIDE DOOR
 - * SEE 'INTERIOR GLAZING TYPES' THIS SHEET

UNLOCKS BOTH LEVERS.

AND TOP OF DOOR.

F76 PRIVACY LOCK-PUSH BUTTON LOCKING. CAN BE

TURNING INSIDE LEVER RELEASES BUTTON.

USE OF KEY OR ROTATING INSIDE LEVER TO

ONLY. INSIDE LEVER ALWAYS UNLOCKED.

CATCH HARDWARE AT HEAD FRAME

OPENED FROM OUTSIDE WITH SMALL SCREW DRIVER.

F82 PUSHING INSIDE BUTTON LOCKS OUTSIDE LEVER, REQ'R'S

F86 OUTSIDE LEVER ALWAYS FIXED. ENTRANCE BY KEY

F75 PASSAGE SET

SIGNAGE TYPES

ROOM NUMBER AND NAME

#7. EMPLOYEES ONLY

MEN - STAFF ONLY (OR WOMEN - STAFF ONLY #4. EXIT / STAIRS UNISEX BATHROOM MEN'S RESTROOM (OR WOMEN'S RESTROOM)

Stephen M. Luchtenberg License No. 8546 Expiration Date: December 31, 2023

FOR

PICKERINGTON CENTER ONERS:

185 2

000

426 EAST MAIN STREET

LANCASTER, OHIO 43130

phone: (740) 654-4048

facsimile: (740) 654-3009

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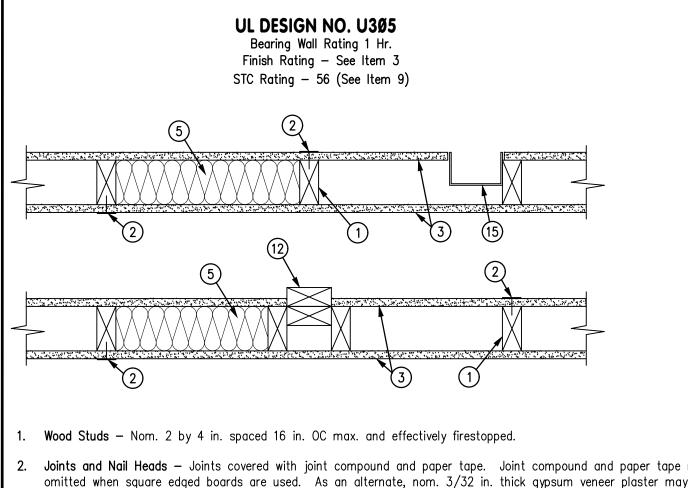
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SCHEDULES & DETAILS

DRAWN BY: SML RMC ARS

STEPHEN

LUCHTENBERG



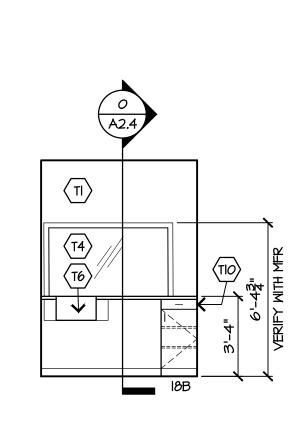
- **Joints and Nail Heads** Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edged boards are used. As an alternate, nom. 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Nail heads exposed or covered with joint compound.
- 3. Gypsum Board* 5/8 in. thick gypsum panels, with beveled, square or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in long Type W coarse thread gypsum panel steel screws spaced a max. 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.
- UNITED STATES GYPSUM CO Type AR (finish rating 24 min.), Type SCX (finish rating 24 min.), Type SGX (finish rating 24 min.), Type C (finish rating 24 min.), Type WRX (finish rating 24 min.), Type WRC (finish rating 24 min.), Type IP-X1 (finish rating 24 min.), Type IP—X2 (finish rating 24 min.), Type SHX (finish rating 24 min.), Type FRX—G (finish rating 24 min.), Type IP-AR (finish rating 24 min.), Type IPC-AR (finish rating 24 min.).
- 4. Steel Corner Fasteners Not used.
- 5. Glass Fiber Insulation (Optional) 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction—fitted to fill the interior of the wall. Category BZJZ. CERTAINTEED CORPORATION JOHNS MANVILLE INTERNATIONAL, INC.
- OWENS CORNING THERMAFIBER, INC.
- 6. Steel Framing Members Not used.
- 8. Caulking and Sealants (Optional, not shown) A bead of acoustical sealant applied around the partition perimeter for
- 9. STC Rating Not used.
- 10. Wall and Partition Facings and Accessories* Not used. 11. Cementitious Backer Units* — Not used.
- 12. Non—Bearing Wall Partition Intersection Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC vertically and fastened to one side of the minimum 2 by 4 stud with 3 in. long 10d nails spaced a max. 16 in. OC vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed with a second 2 by 4 iin. wood stud fastened with 3 in long 10d nails spaced a max. 16 in. OC vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.
- 13. Mesh Netting Not used. 14. Mineral and Fiber Board* — Not used.
- 15. Membrane Penetration Single and double—gang metallic electrical outlet or switch box not exceeding 16 sq in. securly fastened to wood stud (Item 1). The opening clearance between the gypsum wallboard (Item 3) and the box should not exceed 1/8 in. The aggregate surface area of boxes should not exceed 100 sq. in. per 100 sq. ft. Boxes located on opposite sides of the wall should be separated by a minimum horizontal distance of 24 in. The minimum separation requirement can be reduced and the aggregate surface area can be exceeded when wall opening protective materials (CLIV) are used.
- Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification

(such as Canada), respectively.

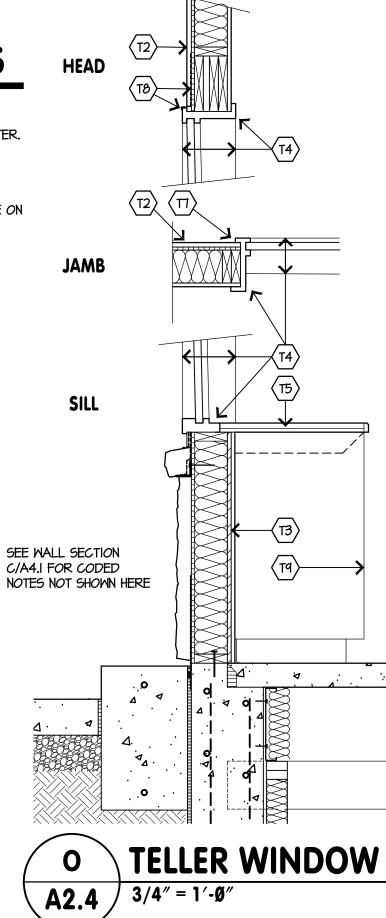
3M COMPANY 3M FIRE PROTECTION PRODUCTS - MPP+ Moldable Putty Pad

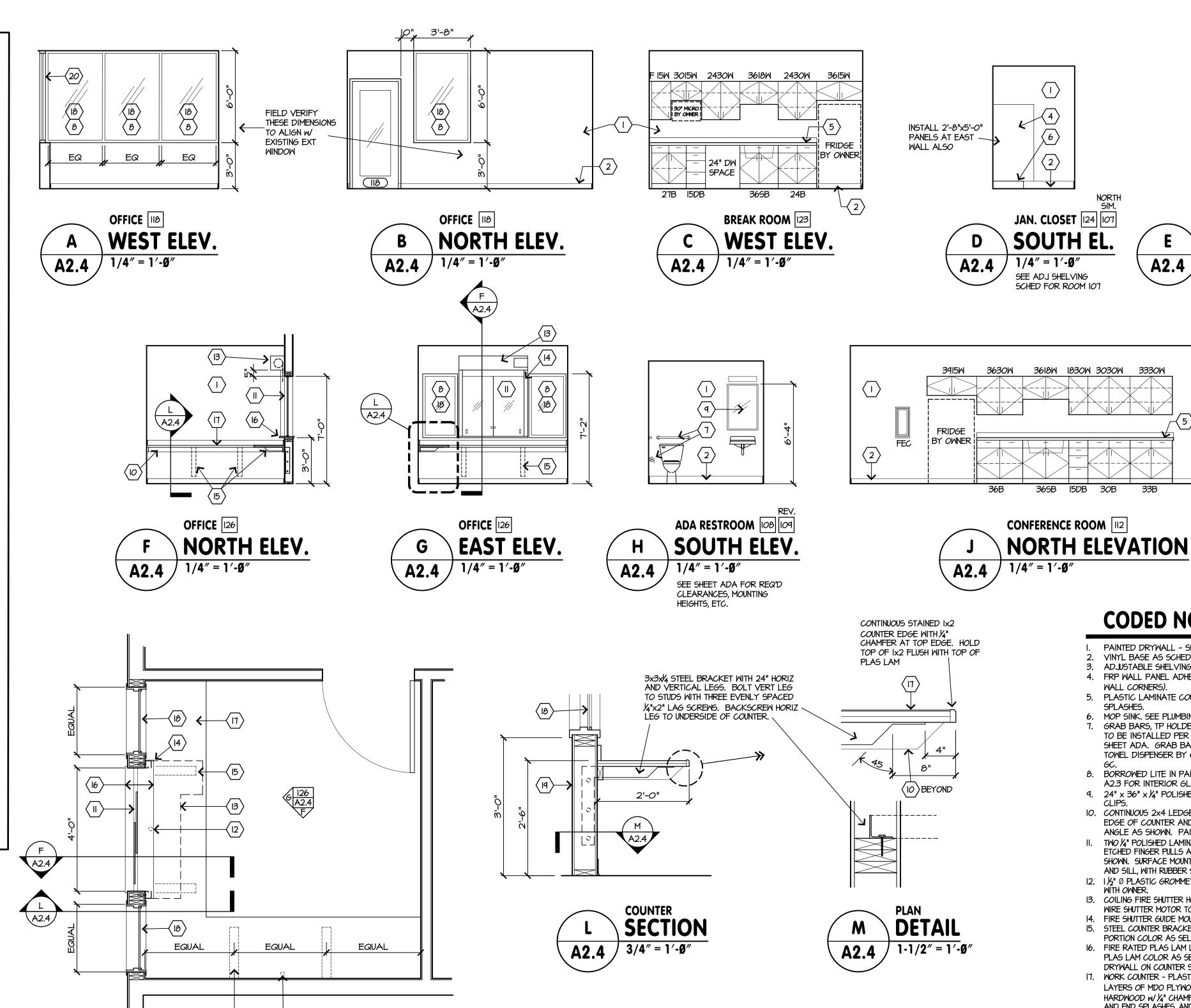
TELLER COUNTER CODED NOTES

- TI. PAINTED DRYWALL
- T2. EXTERIOR WALL AS DETAILED ELSEWHERE. T3. 岁" STEEL PLATE BETWEEN DRYWALL AND STUDS FULL HEIGHT UNDER COUNTER.
- CUT OUT AS REQUIRED FOR TRANSACTION DRAWER. T4. BULLET RESISTANT TELLER WINDOW GLAZING AND FRAME. PAINT FRAME
- COLOR AS SELECTED. INSTALL PER MFR'S INSTRUCTIONS T5. PLAS LAM ON TWO CONT LAYERS OF MDO PLYWOOD (34" AND 36") WITH
- STAINED HARDWOOD IX2 EDGE WITH CHAMFERED TOP CORNER. MELAMINE ON BOTTOM OF COUNTER. SUPPORT AT OPEN END WALL WITH 2x4 LEDGER (SHOWN DOTTED IN FOREGROUND). PAINT LEDGER WITH WALL.
- T6. TRANSACTION DRAWER. INSTALL PER MFR'S INSTRUCTIONS.
- T8. ALUM FLASHING UP BEHIND FLASHING AND DOWN 以" OVER FRONT FACE OF
- FRAME. PAINT EXPOSED PORTION SAME COLOR AS FRAME. T9. PLASTIC LAMINATE STORAGE CABINET BEYOND.
- TIO. 5" TALL LOCKABLE DRAWER.



DRIVE THRU TELLER COUNTER 121 **WEST ELEVATION**





PLAN DETAIL

CODED NOTES

JAN. CLOSET 124 107

SOUTH EL.

3618W 1830W 3030W 3330W

SEE ADJ SHELVING SCHED FOR ROOM 107

- I. PAINTED DRYWALL SEE ROOM FINISH SCHEDULE. VINYL BASE AS SCHEDULED.
- 3. ADJUSTABLE SHELVING AS SCHEDULED BELOW. 4. FRP WALL PANEL ADHERED TO WALL (HOLD TIGHT TO
- WALL CORNERS). 5. PLASTIC LAMINATE COUNTER WITH 4" BACK AND END

2'-0" HIGH

FULL MIDITH

FOR

CENTER

E OU PICKERINGTON MISSIONERS:

185 185

THE REMODELING (FAIRFIELD COUNTY

426 EAST MAIN STREET

LANCASTER, OHIO 43130

facsimile: (740) 654-3009

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JAN. CLOSET 124

1/4'' = 1'-0''

NORTH EL.

- SPLASHES. MOP SINK. SEE PLUMBING DWGS.
- GRAB BARS, TP HOLDER AND PAPER TOWEL DISPENSER TO BE INSTALLED PER DIMENSIONS ILLUSTRATED ON SHEET ADA. GRAB BARS BY GC. TP HOLER AND PAPER TOWEL DISPENSER BY OWNER. ALL REQD BLOCKING BY
- 8. BORROWED LITE IN PAINTED HOLLOW METAL FRAME. SEE A2.3 FOR INTERIOR GLAZING REQUIREMENTS.
- 9. 24" x 36" x 1/4" POLISHED GLASS MIRROR W CONCEALED IO. CONTINUOUS 2x4 LEDGER. HOLD EXPOSED END 2" FROM
- EDGE OF COUNTER AND MITER BACK AT 45 DEGREE ANGLE AS SHOWN. PAINT LEDGER WITH WALL. II. TWO 以" POLISHED LAMINATED SLIDING GLASS PANELS WITH ETCHED FINGER PULLS AND CENTER RATCHET LOCK AS
- SHOWN. SURFACE MOUNT BALL BEARING TRACK AT HEAD AND SILL, WITH RUBBER STOPS AT BOTH ENDS OF TRACKS. 12. 1岁" Ø PLASTIC GROMMET THRU COUNTER. VERIFY LOCATION
- WITH OWNER. 13. COILING FIRE SHUTTER HOUSING MOUNTED TO WALL. EC TO
- WIRE SHUTTER MOTOR TO FIRE ALARM. SEE ELECT DWGS. 14. FIRE SHUTTER GUIDE MOUNTED TO WALL. 15. STEEL COUNTER BRACKET AS DETAILED. PAINT EXPOSED
- PORTION COLOR AS SELECTED. TYP OF 4. 16. FIRE RATED PLAS LAM LEDGE BY FIRE SHUTTER SUPPLIER. PLAS LAM COLOR AS SELECTED. 4" OVERHANG PAST
- DRYWALL ON COUNTER SIDE; I" OVERHANG ON OPPOSITE SIDE. 17. WORK COUNTER - PLASTIC LAMINATE ON TWO CONTINUOUS LAYERS OF MDO PLYWOOD (34" AND 56"). STAINED IX2 HARDWOOD W/以" CHAMFERED TOP EDGE, 4" PLAS LAM BACK AND END SPLASHES, AND STEEL SUPPORT BRACKETS AS DETAILED. MELAMINE ON UNDERSIDE OF COUNTER.

18. 1/4" LAMINATED GLAZING (3/4 HOUR FIRE-RATED PER INTERIOR

- GLAZING TYPES SCHEDULE ON SHEET A2.3) SET IN 7 3/4" PAINTED BORROWED LITE HOLLOW METAL FRAME. 19. %" FIRE CODE DRYWALL ON BOTH SIDES OF 2x6 FRAMING AT
- 16" OC PER UL DESIGN U305 FOR ONE HOUR FIRE RATING. SEE DETAIL THIS SHEET. 20. EXISTING EXTERIOR WINDOW.

ADJUSTABLE SHELVING SCHEDULE									
WALL	# OF STANDARDS	LENGTH OF STANDARDS	# OF SHELVES	SHELF SIZE					
NORTH	2	4'-0"	3	18" x FV"					
NORTH	2	5'-O"	4	12" x FV"					
	WALL	WALL # OF STANDARDS NORTH 2	WALL # OF STANDARDS NORTH 2 4'-0"	WALL STANDARDS LENGTH OF SHELVES NORTH 2 4'-0" 3					

SHELVING GENERAL NOTES STANDARDS - KNAPE & VOGT #85ANO.

- BRACKETS KNAPE & VOGT #185ANO. SIZE TO FIT SHELF
- SHELF RESTS AT EACH BRACKET KNAPE & VOGT #106ANO (TWO PER BRACKET BACKSCREW TO SHELF). SHELVES TO BE 3/4" MDO PLYWOOD WITH PLASTIC

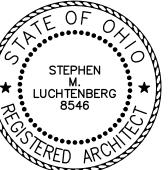
LAMINATE ON ALL EXPOSED SURFACES AND EDGES.

FIELD VERIFY EXACT LENGTHS. PROVIDE HORIZONTAL 2 X 6 BLOCKING (WIDE FACE VERTICAL) BETWEEN STUDS @ 16" O.C. UP BEHIND EACH STANDARD. SECURE STANDARDS TO EACH BLOCKING

CABINET DRAWER NOTES

ALL CABINET DRAWERS TO HAVE DOVE TAIL JOINTS PROVIDE FULL EXTENSION, SOFT CLOSE DRAWER SLIDES WITH BALL BEARINGS AND POLYMER SOFT CUSHIONS FOR QUIET SLIDE OPERATION. KNAPE & VOGT 'FORCE MANAGEMENT' SERIES OR APPROVED

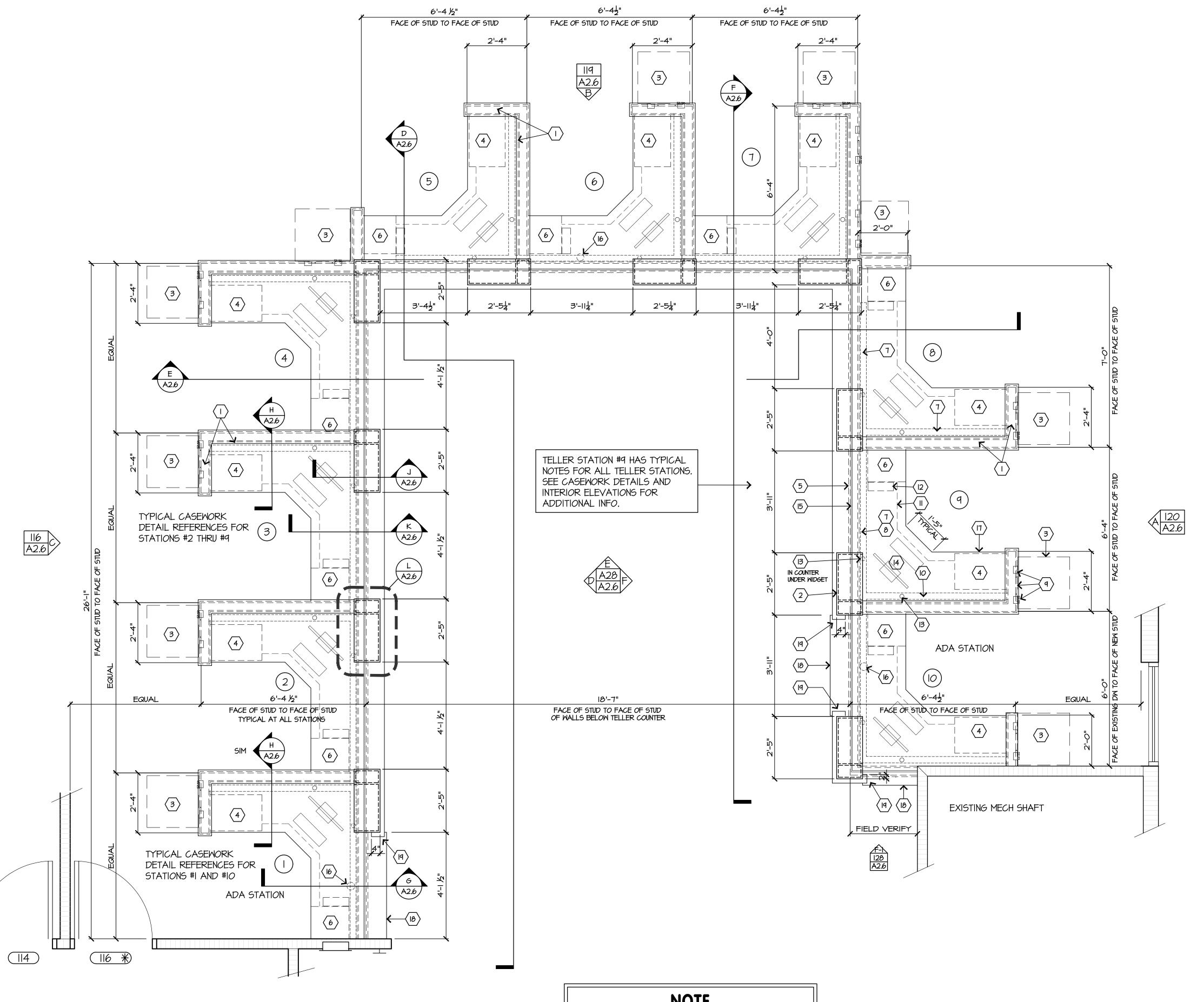
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Stephen M. Luchtenberg License No. 8546 Expiration Date: December 31, 2023

INTERIOR ELEVATIONS & DETAILS

A2.4



CODED NOTES

- I. PAINTED %" IMPACT RESISTANT DRYWALL ON BOTH SIDES OF 2x4 STUDS AT 16" OC. STAINED IX8 WOOD CAP WITH 5" COVE MOLD AT UNDERSIDE EDGE. HOLD TOP OF CAP AT 3'-9 1/5" AFF. SEE TELLER STATION DETAILS.
- 2. ABOVE COUNTER PLAS LAM 'WIDGET' STORAGE COMPARTMENT WITH ADJUSTABLE PLAS LAM SHELF AS DETAILED, WITH PLAS LAM 'WIDGET TOWER' BELOW COUNTER. 3. PORTABLE PRINTER CART (BY OWNER).
- 4. 24" WIDE PLASTIC LAMINATE STORAGE BASE CABINET WITH CASH DRAWER AND ONE ADJUSTABLE SHELF (BELOW THE COUNTER - SHOWN DOTTED).
- 5. STAINED 3/4" HARDWOOD PLYWOOD PANEL ON STUD WALL BELOW COUNTER BETWEEN WIDGET TOWERS.
- 6. 15" WIDE PLASTIC LAMINATE SHELVING CABINET (NO DOOR) BELOW THE COUNTER WITH TWO ADJUSTABLE SHELVES. (SHOWN DOTTED)
- 7. EXPOSED CABLE TRAY MOUNTED FIVE INCHES BELOW THE UNDERSIDE OF THE COUNTER. RUN TRAY CONTINUOUS FROM ONE STATION TO THE NEXT (THRU AN OPENING IN THE WALL BEHIND THE 15" CABINET - COORD WALL OPENING SIZE WITH TRAY) WITH AN INTERSECTING WIRE TRAY RUNNING BACK BEHIND THE CASH DRAWER CABINET OVER THRU AN OPENING IN THE CONCEALED SIDE OF THE WALL TO THE STUD CAVITY AT THE PRINTER CART DATA PORTS.
- 8. ONE RECESSED QUAD RECEPTACLE AND FOUR SURFACE MOUNTED DATA PORTS BELOW COUNTER (STATE, COUNTY, PHONE AND CREDIT CARD READER) NOT SHOWN FOR CLARITY - SEE INTERIOR ELEVATIONS. HOLD TOP OF RECEPT AND DATA PORTS AT 5" BELOW BOTTOM OF CABLE TRAY. 9. TWO RECESSED DATA PORTS (ONE STATE, ONE COUNTY) AND
- ONE RECESSED DUPLEX RECEPTACLE WITH 8"x8" REMOVABLE PLASTIC ACCESS PANEL BETWEEN THEM FOR ACCESS TO DATA WIRING. HOLD TOP OF PORT BOX AND RECEPTACLE AT 2'-7" AFF.
- IO. RECESSED DUPLEX RECEPTACLE BELOW COUNTER TOP OF RECEPTACLE AT 5" BELOW BOTTOM OF CABLE TRAY. NOT SHOWN FOR CLARITY - SEE INTERIOR ELEVATIONS. II. EDGE OF 6" HIGH RAISED FOOT REST PLATFORM AT THE
- FLOOR SLAB. HOLD EDGE 4" BACK FROM EDGE OF COUNTER 12. OWNER'S STACKED COMPUTER TOWERS; ONE SITS ON THE RAISED FOOT REST PLATFORM, GC TO INSTALL BRACKET FOR OTHER COMPUTER TOWER TO SIT AT 3" ABOVE THE TOP OF THE LOWER TOWER. VERIFY DIMENSIONS WITH OWNER.
- PROVIDE VELCRO STRAP TO HOLD TOWERS IN PLACE. 13. I 1/2" DIAMETER GROMMET IN COUNTER (ABOVE CABLE TRAY). 14. OWNER'S KEYBOARD AND MONITOR.
- 15. 为" PLEXIGLASS PANELS SEE INTERIOR ELEVATIONS. 16. EC TO PULL TELLER STATION I.T. WIRING FROM CABLE TRAY DOWN THRU NEW 3" DIA CORED OPENING (OPENING BY GC) IN EXISTING FLOOR SLAB UNDER COUNTER AT STATIONS 1, 6 AND 10 THRU LOWER LEVEL CEILING SPACE TO MECH ROOM 009.

FLOOR SLAB OPENING. FIELD VERIFY CORED OPENING

SEE ELECT DWGS FOR WIRING AND FIRE RATING OF CORED

- LOCATIONS WITH ARCHITECT. 17. PLASTIC LAMINATE WORK SURFACE ON TWO CONTINUOUS LAYERS OF MDO PLYWOOD (34" AND 36"). FINISH EXPOSED EDGE OF COUNTER (AT TELLER SIDE) WITH STAINED IX2 HARDWOOD WITH 1/4" CHAMFERED TOP EDGE. PROVIDE 8" TALL PLASTIC LAMINATE 'WATERFALL' EDGE ON LOBBY SIDE EDGE OF COUNTER. SEE ELEVATIONS AND DETAILS FOR MORE INFO.
- 18. HOLD FACE OF COUNTER 3" PAST WIDGET TOWERS AT ADA STATIONS #I AND #IO.
- 19. RETURN WATERFALL COUNTER EDGE 4" ON ENDWALL OF ABOVE COUNTER WIDGET AT ADA STATIONS #I AND #IO.

 \propto NO

<u></u> \Box

426 EAST MAIN STREET

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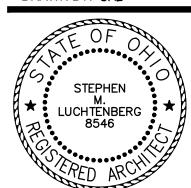
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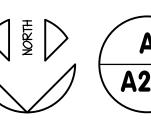
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LOBBY **TELLER STATIONS ENLARGED PLAN**

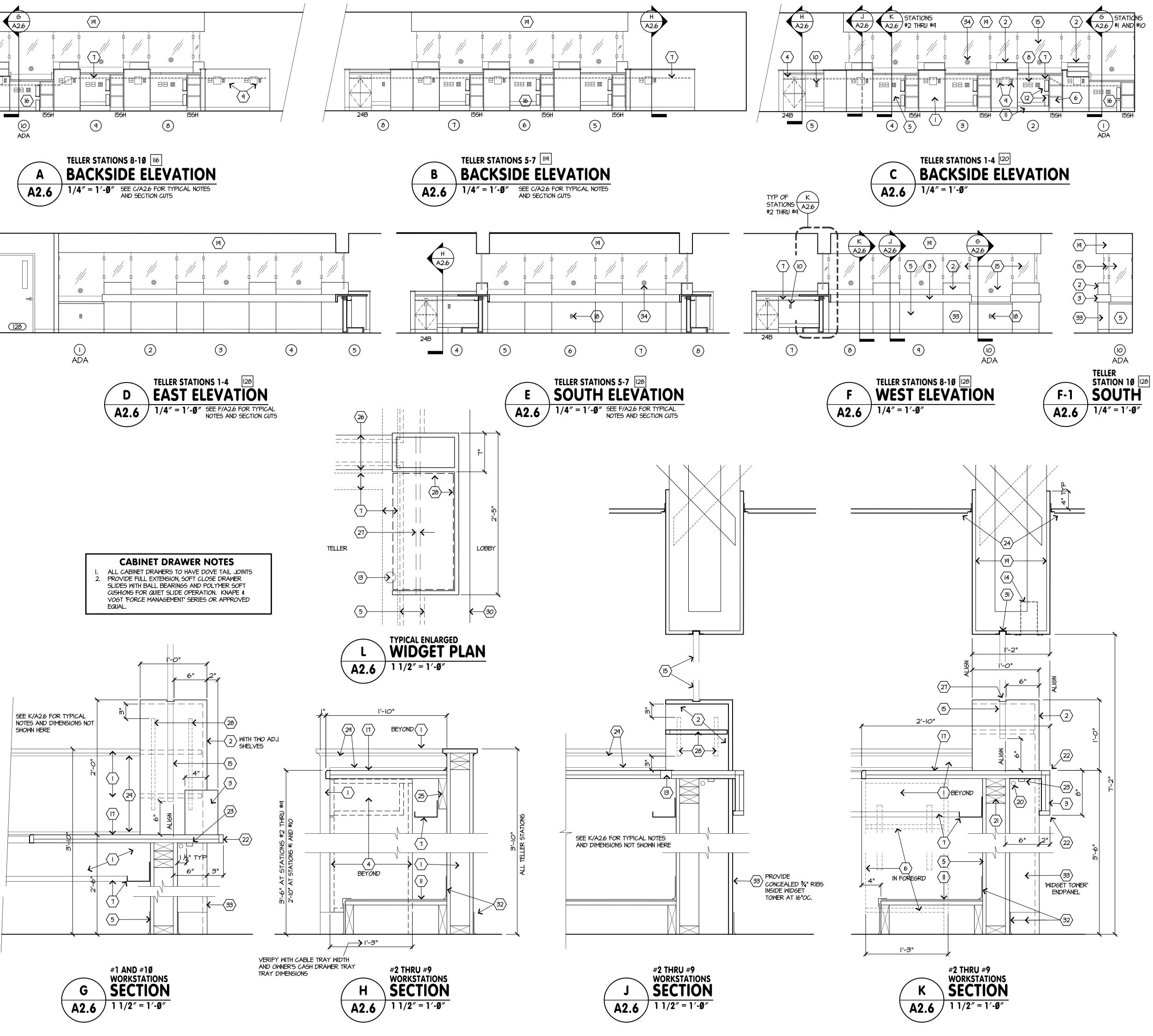
A2.5

NOTE

FIELD VERIFY ALL DIMENSIONS PRIOR TO STUD FRAMING AND CASEMORK FABRICATION. REPORT ALL DISCREPANCIES TO THE ARCHITECT.



ENLARGED TELLER LOBBY CASEWORK PLAN A2.5 $\int 1/2'' = 1' \cdot 0''$



CODED NOTES

- PAINTED %" IMPACT RESISTANT DRYWALL ON BOTH SIDES OF 2x4 STUDS AT 16" OC. STAINED IX8 WOOD CAP WITH 1/2" COVE MOLD AT UNDERSIDE EDGE. 4" VINYL BASE. HOLD TOP OF IX8 CAP AT 3'-10" AFF. INSTALL VINYL WALL COVERING ON ALL EXPOSED FACES OF DRYWALL (EXCEPT IN UNDERCOUNTER KNEESPACE): 13.3 OZ PER SQ YD, ANTI MICROBIAL, ABRASION / TEAR / STAIN RESISTANT, CLASS 'A' PER ASTM E-84, TYPE II PER FED SPEC CCC-W-408A-B-C-D, COMMAND EXPRESS V BY SURFACE MATERIALS OR APPROVED EQUAL. COLOR AND PATTERN AS SELECTED.
- 34" PLAS LAM 'WIDGET' STORAGE COMPARTMENT SECURED TO COUNTERTOP, WITH ADJUSTABLE PLAS LAM SHELF AS SHOWN. SEE ENLARGED WIDGET PLAN L/A2.6.
- 3. 8" TALL CONTINUOUS PLASTIC LAMINATE 'WATERFALL' COUNTER
- 4. 24" WIDE PLASTIC LAMINATE STORAGE BASE CABINET WITH 5" TALL, LOCKABLE CASH DRAWER AND ONE ADJUSTABLE SHELF (BELOW THE DRAWER - SHOWN DOTTED). SHELF TO HAVE TWO KNAPE AND VOGT SERIES 233, 23 GA, 13/16"X3/6" STEEL STANDARDS AT EACH SIDEWALL WITH K&V #256 SUPPORTS. DRAWER TO HAVE KNAPE AND VOGT SERIES 8350, STEEL BALL BEARING, SIDE MOUNTED, 75 LB STEEL SLIDES.
- STAINED 3/4" HARDWOOD PLYWOOD PANEL WITH 4" VINYL BASE BETWEEN WIDGET TOWERS ON LOBBY SIDE OF CONTINUOUS 2x4 STUD WALL BELOW COUNTER. %" IMPACT RESISTANT PAINTED DRYWALL WITH VINYL BASE ON KNEESPACE FACE OF STUD WALL.
- 15" WIDE PLASTIC LAMINATE SHELVING CABINET (NO DOOR) BELOW THE COUNTER WITH TWO ADJUSTABLE 3/" PLASTIC LAMINATE SHELVES. EXPOSED FRONT EDGES OF ALL CABINET AND SHELF SURFACES TO BE STAINED I"XI" HARDWOOD. SUPPORT SHELVES WITH TWO KNAPE AND VOGT SERIES 233, 23 GA, 13/16"X3%" STEEL STANDARDS AT EACH SIDEWALL. FOUR K&V #256 SUPPORTS AT EACH SHELF.
- EXPOSED WIRE FRAME UNDER-DESK CABLE MANAGEMENT TRAY SYSTEM (16" LONG x 3.5" TALL x 2.75" WIDE; BY MULTILIFE OR APPROVED EQUAL) MOUNTED TO WALL AT FIVE INCHES BELOW THE UNDERSIDE OF THE WORK COUNTER. PROVIDE TWO 16" LONG TRAYS AT FRONT WALL AND TWO TRAYS AT SIDEWALLS OF EACH STATION. FIELD VERIFY LOCATIONS WITH ARCHITECT. PROVIDE OPENING IN SIDEWALL BEHIND 15" OPEN SHELF CABINET IN LINE WITH TRAY FOR I.T. CABLES. PROVIDE OPENING IN BACK WALL ADJACENT TO CASH DRAWER CABINET (IN LINE WITH CABLE TRAYS) FOR I.T. CABLE ACCESS TO THE STUD CAVITY AT THE PRINTER CART DATA PORTS. I.T. CABLE PATH SHOWN DOTTED ON
- ONE RECESSED QUAD RECEPTACLE AND FOUR SURFACE MOUNTED DATA PORTS BELOW COUNTER (STATE, COUNTY, PHONE AND CREDIT CARD READER) - HOLD TOP OF RECEPT AND DATA PORTS AT 5" BELOW BOTTOM OF CABLE
- TWO RECESSED DATA PORTS (ONE STATE, ONE COUNTY) AND ONE RECESSED DUPLEX RECEPTACLE WITH 8"x8" REMOVABLE PLASTIC ACCESS PANEL BETWEEN THEM FOR ACCESS TO DATA WIRING. HOLD BOTTOM OF DATA PORT BOX AND ELECT RECEPTACLE AT
- 10. RECESSED DUPLEX RECEPTACLE BELOW COUNTER TOP OF RECEPTACLE AT 5" BELOW BOTTOM OF CABLE TRAY.
- 6" HIGH RAISED FOOT REST PLATFORM TO COVER SPACE BETWEEN UNDERCOUNTER CABINETS AND WALLS: LVT ON 1/5" PLYWOOD ON 2x6 TREATED FRAMING AT 16" OC. FILL CAVITIES BETWEEN FRAMING WITH 3 1/3" BATT INSULATION FOR SOUND DEADENING. INSTALL 6" VINYL BASE AT FACE AND INSTALL METAL CORNER TRANSITION STRIP (COLOR AS SELECTED) OVER TOP OF BASE AND EDGE OF LVT. HOLD FACE OF FOOTREST PARALLEL TO AND 4" BACK FROM EDGE OF COUNTER ABOVE.
- 12. OWNER'S STACKED COMPUTER TOWERS; LOWER TOWER SITS ON FOOTREST PLATFORM; GC TO INSTALL BRACKETS AT 3" ABOVE TOP OF LOWER TOWER FOR UPPER TOWER TO REST ON. PROVIDE VELCRO STRAP TO HOLD TOWERS IN PLACE.
- 13. I 1/2" DIAMETER PLASTIC GROMMET IN COUNTER (TWO PER STATION). SEE ENLARGED PLAN ON SHT A2.5 FOR LOCATIONS. COLOR AS SELECTED.
- 14. CAN LIGHT FIXTURE CENTERED OVER OPEN COUNTER BETWEEN WIDGETS AT EACH STATION. ADJUST SOFFIT FRAMING AS
- WITH DIAMOND BIT POLISHED EDGES. A&C PLASTICS OR APPROVED EQUAL. SET PANEL ATOP WIDGET IN 36"D x 34"W PLAS LAM-COVERED DEPRESSED SLOT IN WIDGET TOP AND IN FRY REGLET AT SOFFIT. SECURE PANELS THAT ARE ABOVE OPEN COUNTER TO PANELS ABOVE WIDGETS AS SHOWN.
- 16. PULL TELLER STATION I.T. WIRING FROM CABLE TRAY DOWN THRU NEW 3" DIA CORE DRILLED FIRE RATED OPENING IN FLOOR AT TELLER STATIONS #1, #6 AND #10, INTO LOWER LEVEL CEILING SPACE AND THRU CEILING SPACE TO EXISTING LOWER LEVEL MECH ROOM BELOW - SEE ELECT DWGS AND ENLARGED TELLER
- STATION PLAN A/A2.5. F.V. SLEEVE LOCATIONS WITH ARCHITECT. 17. WORK COUNTER - PLASTIC LAMINATE ON TWO CONTINUOUS LAYERS OF MDO PLYWOOD (34" AND 36"). FINISH EXPOSED EDGE OF COUNTER ON TELLER SIDE WITH CONTINUOUS STAINED HARDWOOD IX2 WITH 以" CHAMFERED EDGE. PROVIDE 8" TALL
- PLASTIC LAMINATE 'WATERFALL' EDGE ON LOBBY SIDE. 18. DUPLEX CONVENIENCE OUTLET AT 18" AFF, CENTERED ON WOOD PANEL. SEE ELECT DWGS.
- 19. %" PAINTED DRYWALL ON 2x4 SOFFIT FRAMING AT 24" OC. SECURE FRAMING TO SIDES OF 2x4 BLOCKING LAID FLAT ON EXISTING DRYWALL CEILING AND SCREWED TO BOTTOM CHORD OF EXISTING ROOF TRUSSES. PROVIDE 2x4 DIAGONAL BRACES STAGGERED BOTH WAYS AT 4' OC UP TO BLOCKING AT EXISTING ROOF TRUSSES. SEE SECTION A/A4.I.
- 20. 3/4" GROMMET IN BOTH SIDEWALLS OF WIDGET TOWER FOR UNDER COUNTER LIGHT WIRING. SEE ELECT PLANS
- 21. BLOCKING IN WALL AS REQD FOR CABLE TRAY 22. PROVIDE IX2 EDGE UNDER PLAS LAM AT ALL EXPOSED CORNERS. 23. LED 'TAPE' LIGHT FIXTURE MOUNTED TO UNDERSIDE OF COUNTER.
- RUN LOW VOLTAGE CIRCUIT WIRING CONCEALED THRU GROMMETS IN WIDGET TOWER TO DAISY CHAIN FIXTURES. SEE ELECT DWGS. 24. SUSPENDED ACOUSTICAL CEILING AS SCHEDULED. 25. CONT 2x6 LEDGER.
- 26. ¾"x6¼" STAINED LEDGE AT TOP OF WALL.
- 27. %"Dx¾"W PLAS LAM COVERED RECESS IN TOP OF WIDGET FOR ½" PLEXIGLASS PANEL TO REST IN. ALIGN LOBBY SIDE OF RECESS WITH LOBBY SIDE OF STUD WALL BELOW COUNTER 28. ADJUSTABLE 3/4" PLASTIC LAMINATE WIDGET SHELF WITH STAINED
- HARDWOOD IXI FRONT EDGE. SUPPORT SHELF WITH TWO KNAPE AND VOGT SERIES 255, 23 GA, 5%"x7%" STEEL STANDARDS AT EACH END AND WITH FOUR K&V #256 SHELF SUPPORTS.
- 29. 1/2" STAINED COVE MOLDING AT DRYWALL / COUNTER JOINT AND AT DRYWALL / WALL CAP JOINT.
- 30. EDGE OF PLAS LAM 'WATERFALL' COUNTER 31. 34" WIDE FRY REGLET DRYWALL REVEAL MOLDING #DRM-625-75.
- VERIFY WIDTH WITH PLEXIGLASS INSTALLATION TOLERANCE. 32. 4" VINYL BASE. 33. PLASTIC LAMINATE 'WIDGET TOWER' BELOW COUNTER AND IN LINE WITH WIDGET ABOVE COUNTER. SECURE TO STUD WALL, COUNTER
- AND FLOOR AS NECESSARY. 34. 5" DIA, BRUSHED STAINLESS STEEL, TAMPER-PROOF 'SPEAK-THRU', WITH OFFSET SLOTS; CR LAURENCE MODEL # SST5 OR APPROVED EQUAL. INSTALL IN PLEXIGLASS PANEL, HOLD CENTERLINE OF HOLE AT CENTERLINE OF PLEXIGLASS PANEL AT 12" ABOVE TOP OF COUNTER. (TYP)

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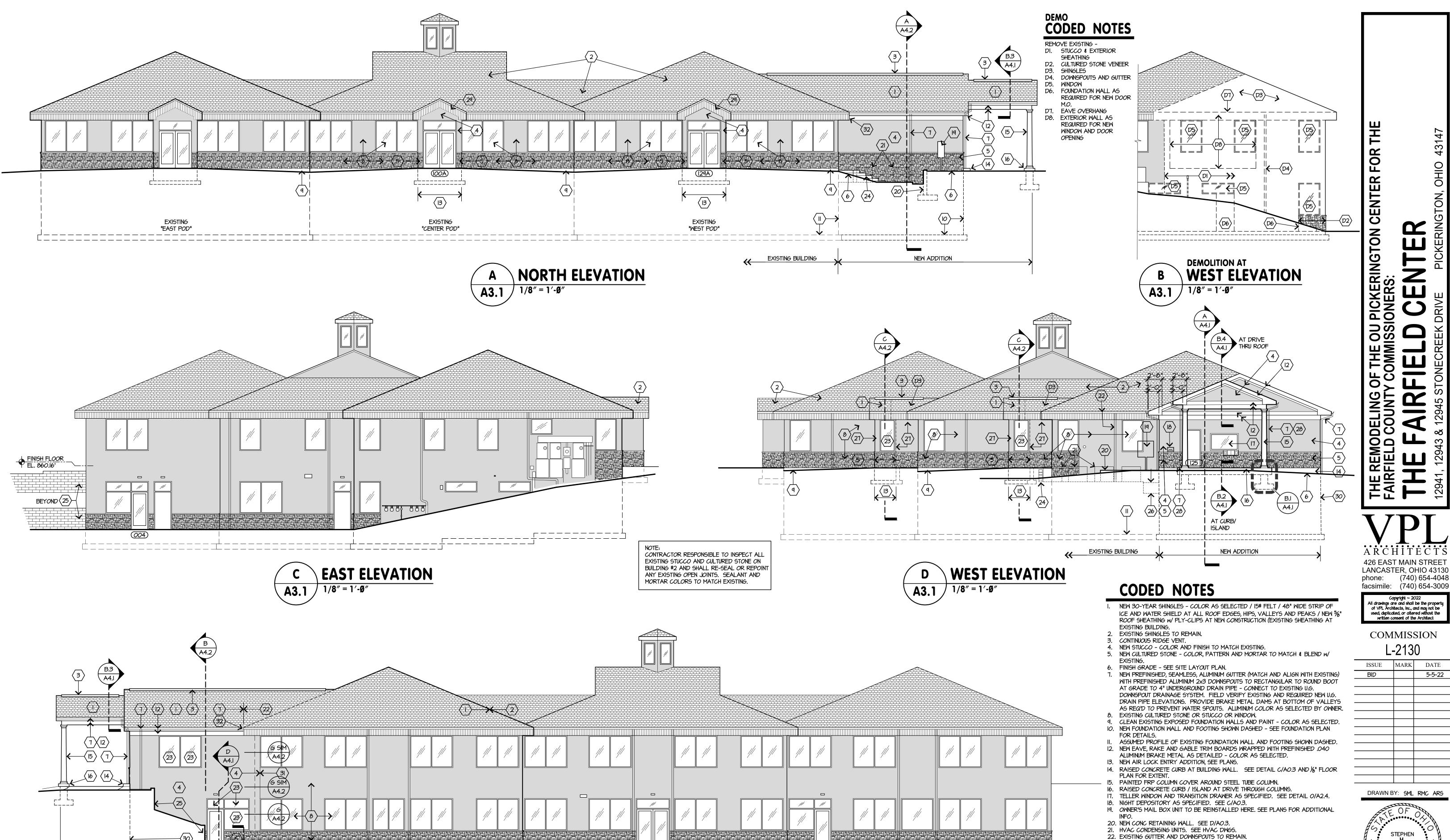
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TELLER STATION ELEVATIONS & DETAILS



SOUTH ELEVATION

NEW ADDITION

23. NEW EXTERIOR WINDOW TO HAVE TINTED INSULATING GLAZING SET IN CENTER GLAZED, 2x4.5 PREFINISHED ALUMINUM FRAME AS SPECIFIED. GLAZING TINT AND ALUMINUM FINISH TO MATCH EXISTING. FIELD VERIFY HEIGHTS OF WINDOWS TO MATCH AND ALIGN WITH ADJACENT EXISTING WINDOWS. SEE PLANS FOR WIDTH OF

24. EXISTING RAILROAD TIE RETAINING WALL AND CONC SLAB AT EXISTING CONDENSING UNITS TO REMAIN.

25. NEW SEGMENTED KEYSTONED SPLIT FACE BLOCK RETAINING WALLS BEYOND - SEE

26. INFILL AT EXISTING DEMO'D WINDOW (BEYOND- SHOWN DOTTED). SEE PLANS FOR

ADDITIONAL INFO. 27. NEW STUCCO AT NEW AIRLOCK ENTRY TO MATCH AND BLEND W/ EXISTING STUCCO.

28. DOWNSPOUT IS AT BLDG WALL BEYOND. SET RECTANGULAR TO ROUND DOWNSPOUT BOOT THRU 12" WIDE CURB AT BUILDING WALL.

29. NEW ENTRY RAKE FASCIA SIDING & SOFFIT TO MATCH EXISTING AT EAST POD. 30. PROFILE OF NEW CONCRETE FOUNDATION WALL & FOOTING.

31. EXISTING STUCCO.

32. INSTALL ½" PLYWOOD SHEATHING DRAFTSTOPPING BETWEEN EXISTING AND ADJACENT NEW ROOF OVERHANGS.

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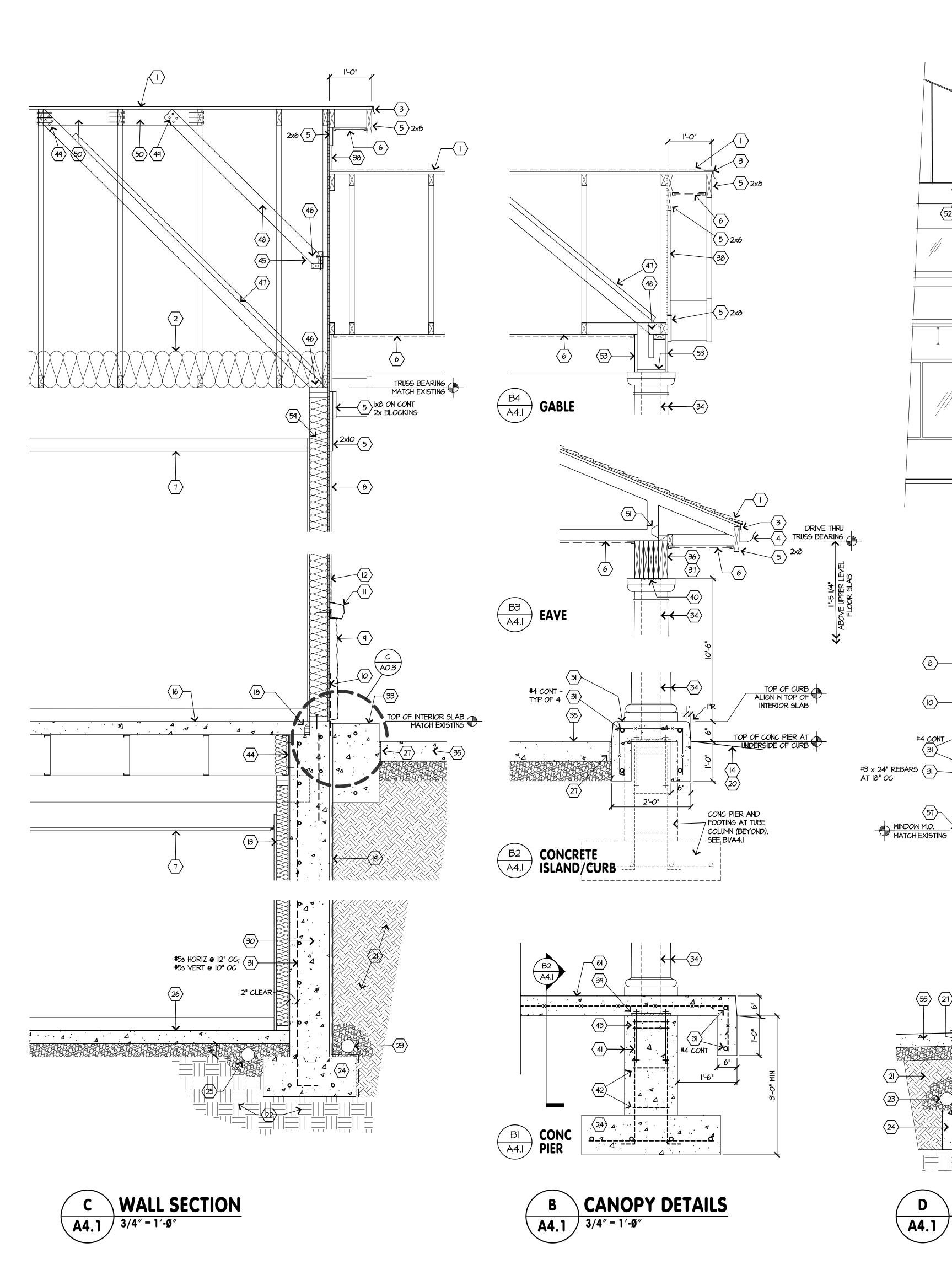
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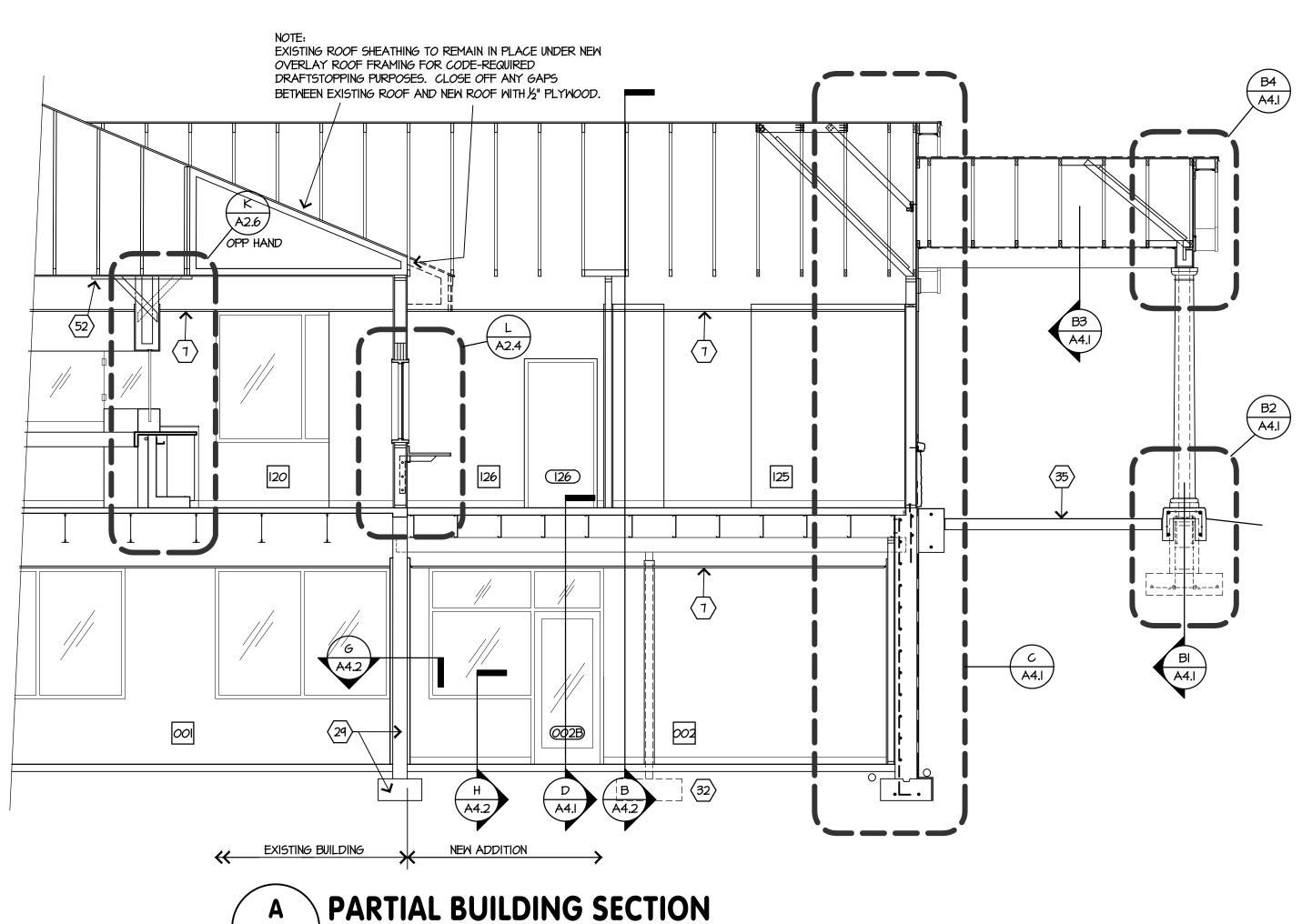
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EXTERIOR ELEVATIONS

5-5-22

A3.1





CODED NOTES

A4.1 $\sqrt{1/4'' = 1' - \emptyset''}$

RIGID INSULATION NOT SHOWN AT

SEE A & B/A4.2 FOR ADDT'L INFO.

(17) VERTICAL WALL FOR CLARITY -

←⟨44⟩**→**

TWO #4s TOP

AND BOTTOM

W #3 TIES

AT 12" *O*C

WALL SECTION

48" WIDE STRIP OF ICE AND WATER SHIELD AT ALL ROOF EDGES, HIPS, VALLEYS AND PEAKS / 5%" ROOF SHEATHING W/PLY-CLIPS / ROOF FRAMING AND HURRICANE CLIPS PER ROOF

2. 12" R-38 ATTIC INSULATION WITH EAVE BAFFLES

3. PREFINISHED ALUM DRIP EDGE. COLOR AS SELECTED. 4. PREFINISHED ALUM GUTTER (MATCH EXISTING PROFILE AND COLOR) - CONNECT TO ADJACENT EXISTING GUTTER. PROVIDE ALUMINUM DAMS AT BOTTOM OF VALLEYS AS REQ'D TO PREVENT STORM WATER SPOUTS. INSTALL NEW PREFINISHED 2x3 ALUM DOWNSPOUTS (WHERE SHOWN ON EXTERIOR ELEVATIONS) DOWN TO RECTANGULAR TO ROUND BOOT AT GRADE. TIE INTO EXISTING UNDERGROUND STORM DRAINAGE. FIELD VERIFY EXISTING CONDITIONS.

5. PREFINISHED .040 ALUMINUM BRAKE METAL ON ALL EXPOSED FACES OF EAVE, RAKE AND GABLE BOARDS (BOARD SIZE AS NOTED). EXTEND BRAKE METAL AS FLASHING MIN 3" UP BEHIND ADJACENT MATERIAL. BRAKE METAL COLOR AS SELECTED. 6. VENTED VINYL SOFFIT ON 2x FRAMING OR ROOF TRUSSES AT

7. SUSPENDED ACOUSTICAL LAY-IN CEILING AS SCHEDULED. 8. NEW STUCCO / BUILDING WRAP / ½" WALL SHEATHING / 2x6

STUDS AT 16" OC / 6" R-19 BATT INSULATION / 1/8" DRYWALL. STUCCO COLOR AND FINISH TO MATCH EXISTING 9. NEW CULTURED STONE VENEER / SETTING BED / SCRATCH COAT / SELF-FURRED LATH / CONT WEEP SCREED AT BASE OF VENEER. STONE COLOR, PATTERN AND MORTAR TO MATCH

EXISTING. INSTALL PER MFRS INSTRUCTIONS. 10. CONTINUOUS 12" HIGH STRIP OF ALUM FLASHING (UNDER BUILDING PAPER) ON WALL SHEATHING COVERING TREATED BASE PLATE/CONCRETE JOINT.

II. CULTURED STONE WATERTABLE ON CONTINUOUS GALV STEEL ANGLE PER STONE MFR'S INSTALLATION INSTRUCTIONS. SECURE ANGLE TO EXTERIOR WALL. MATCH AND ALIGN WITH EXISTING WATERTABLE. INSTALL MASONRY THRU WALL FLASHING (DOTTED) 4" UP ON SHEATHING AND DOWN OVER STEEL ANGLE, EXTEND %" OUT THRU MORTAR. 12. CONTINUOUS 12" STRIP OF PREFINISHED .040 ALUM FLASHING SHOWN DOTTED (UNDER BUILDING PAPER) ON WALL SHEATHING

CULTURED STONE WATERTABLE. ALUM COLOR TO BLEND WITH WATERTABLE COLOR. 13. %" DRYWALL / 2x4 STUDS 16" OC UP TIGHT TO UNDERSIDE OF FLOOR JOISTS / 3.5" HI DENS BATT INSULATION /

DOWN OVER MASONRY FLASHING AND OUT I" TIGHT ATOP

THORO-SEALED CONCRETE FOUNDATION WALL. HOLD STUDS 1/4" FROM CONCRETE WALL 14. FINISH GRADE - SEE SITE LAYOUT PLAN. 15. CONTINUOUS .040 ALUM FLASHING (SHOWN DOTTED) UP 12" ON

16. REINFORCED CONCRETE SLAB ON FORM DECK ON STEEL

SHEATHING (UNDER BUILDING WRAP), EXTEND 4" BELOW TOP OF

JOISTS. SEE FLOOR FRAMING PLAN C/A2.I. 17. 1岁" RIGID INSULATION ADHERED TO EXPOSED INTERIOR FACES

OF FOUNDATION WALL AS SHOWN. 18. 1岁" RIGID INSULATION WITH TAPERED TOP EDGE. TYP AT PERIMETER OF UPPER LEVEL FLOOR SLAB.

19. CONT ADHERED WATERPROOF MEMBRANE (SHOWN DOTTED) FROM FINISH GRADE DOWN FACE OF FOUNDATION WALL AND DOWN OVER TOP AND FRONT SURFACES OF FOOTING. PRIOR TO BACKFILLING, ADHERE CONT 3/4" PROTECTION BOARD TO FACE OF MEMBRANE ON FOUNDATION WALL. TYP AT ALL

BELOW GRADE FOUNDATION WALLS AT ADDITION. 20. 8" OF TOPSOIL (TYP) 21. COMPACTED FREE DRAINING AGGREGATE BACKFILL 22. UNDISTURBED EARTH OR COMPACTED GRANULAR FILL.

23. 4" PERF FOOTER DRAIN WITH CONTINUOUS GEOTECHNICAL FILTER SOCK SURROUNDED BY 12" OF GRAVEL FILL. TIE INTO EXISTING FOUNDATION DRAIN SYSTEM. FIELD VERIFY EXISTING CONDITIONS.

24. CONC FOOTING AS SCHEDULED. 25. 4" PERF UNDERSLAB DRAIN PIPE WITH CONT GEOTECHNICAL

FILTER FABRIC SOCK SURROUNDED BY GRAVEL FILL AT EAST, NORTH AND WEST WALLS. PIPE TO EXIT BUILDING AND BREAK GRADE TO SURFACE DRAINAGE AT EXISTING RAVINE. FIELD

VERIFY PATH WITH ARCHITECT BARRIER ON 4" OF WASHED STONE CHOKED WITH SAND ON UNDISTURBED EARTH OR COMPACTED FILL.

27. 岁" EXPANSION MATERIAL.

28. 1岁" RIGID INSULATION FROM BOTTOM OF SLAB DOWN TO TOP OF FOOTING.

29. EXISTING FOUNDATION WALL AND FOOTING 30. NEW CONCRETE FOUNDATION WALL - WIDTH AS NOTED ON PLANS. KEY TO FOOTING AS SHOWN.

31. REBARS - SIZE AND SPACING AS NOTED. 32. FOOTING AT NEW COLUMN SHOWN DASHED - SEE FOUNDATION PLAN FOR DETAILS.

33. RAISED CONCRETE CURB AT BUILDING WALL. SEE DETAIL C/AO.3 AND 1/6" FLOOR PLAN FOR EXTENT.

34. PAINTED FRP COLUMN COVER AROUND STEEL TUBE COLUMN (STEEL TUBE SHOWN DOTTED - SEE SHEET A2.1 FOR TUBE SIZE \$ CAP AND BASE PLATE INFO). FRP COLUMN TO HAVE 12" DIA. TUSCAN STYLED, NON-FLUTED, SMOOTH PAINTABLE FINISH, ROUND, TAPERED, 'AS' SPLIT COLUMN SHAFT WITH TUSCAN CAPITAL AND BASE. ENDURA-STONE BY PACIFIC COLUMNS OR APPROVED EQUAL. INSTALL PER MFRS INSTRUCTIONS FOR NON-JOINTED APPEARANCE. GC TO FIELD VERIFY ALL

CONDITIONS PRIOR TO ORDERING 35. CONC PAVING AT DRIVE THROUGH COLUMNS. SEE SHEET AO.2 36. WOOD BEAM AS NOTED ON FRAMING PLAN.

37. CONT BLOCKING ON BEAM AS REQ'D TO MATCH WIDTH OF COLUMN COVER SHAFT. COVER EXPOSED BOTTOM AND SIDES OF BLOCKING AND BEAM WITH PREFINISHED .040 BRAKE METAL (COLOR AS SELECTED)

38. STUCCO / BUILDING WRAP / ½" WALL SHTG / GABLE END TRUSS. 39. STEEL PLATE AND ANCHOR BOLTS AS SCHEDULED ON SHEET

40. STEEL PLATE AND SDS SCREWS AS SCHEDULED ON SHEET A2.1 41. 16"x16" CONCRETE PIER WITH (4) #6 HOOKED REBARS. 42. #3 HORIZONTAL TIES AT 12" OC.

43. (2) #4 HORIZONTAL TIES AT 2" OC AT TOP OF PIER. 44. 12" x 14 GA JOIST WITH .145 x %" POWDER ACTUATED FASTENERS AT 16" OC STAGGERED TOP AND BOTTOM.

END TRUSSES. SECURE VERT LEG TO EACH TRUSS WEB MEMBER WITH SIMPSON SDS $\frac{1}{4}$ x 3. SECURE HORIZ LEG TO VERT LEG WITH SIMPSON SDS 1/4 x 3 AT 24" OC.

45. CONT HORIZONTAL (2) 2x4 'L' BRACE AT MID-HEIGHT OF GABLE

46. PROVIDE (2) SIMPSON GBC CLIPS AT EACH DIAGONAL BRACE. CLIPS NOT SHOWN FOR CLARITY.

47. (2) 2x4 DIAGONAL 'T' BRACE AT 48" OC.

48. 2x4 DIAGONAL BRACE AT 48' OC. 49. SECURE DIAGONAL BRACE TO BLOCKING WITH (4) 16b NAILS. 50. 2x4 BLOCKING AT EACH DIAG BRACE. SECURE BOTH ENDS OF

BLOCKING TO TOP CHORD OF TRUSS WITH (3) 166 NAILS. 51. RAISED CONC CURB / ISLAND AT DRIVE THRU CANOPY COLUMNS WITH 6x6 WI.4xWI.4 WWF AND REBARS AS SHOW. BROOM FINISH ALL EXPOSED SURFACES. 52. 2x4 BLOCKING AT 24" OC LAID FLAT UP AGAINST EXISTING

DRYWALL CEILING AND SCREWED TO BOTTOM CHORD OF EXISTING ROOF TRUSSES. SCREW NEW SOFFIT FRAMING TO SIDES OF BLOCKING. 53. PREFINISHED .040 ALUM BRAKE METAL ON ALL EXPOSED

SURFACES OF IX TRIM ON 2x4 FRAMING AT 24" OC SECURED TO BLOCKING BETWEEN BOTTOM CHORDS OF ROOF TRUSSES. 54. SET THRESHOLD IN CONT BED OF SEALANT.

55. CONC PATIO - SEE SITE PLAN. 56. NEW DOOR AND TRANSOM AS SCHEDULED. 57. CONT PREFINISHED .040 ALUM BRAKE METAL FLASHING, SAME COLOR AS WINDOW FRAME.

58. NOT USED. 59. 2x6 FIREBLOCKING AT ALL STUD CAVITIES. 60. ADHERE %" DRYWALL TO CONC AT JAMB AND HEAD.

TERMINATE DW AT DOOR FRAME WITH J BEAD.

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FOR

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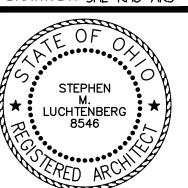
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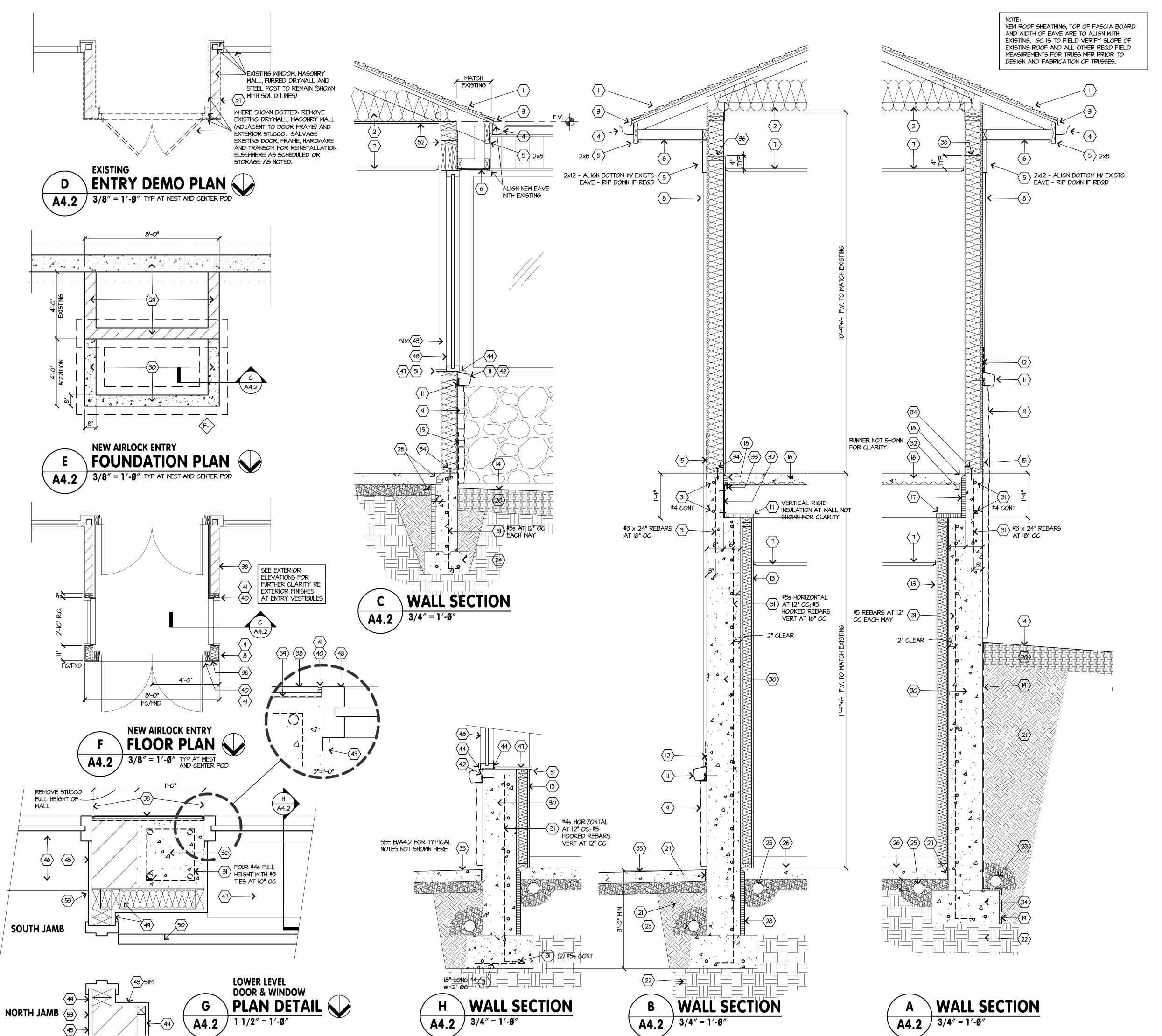
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Expiration Date: December 31, 2023

SECTIONS & DETAILS



CODED NOTES

- NEW 30-YEAR SHINGLES COLOR AS SELECTED / 15# FELT / 48" WIDE STRIP OF ICE AND WATER SHIELD AT ALL ROOF EDGES, HIPS, VALLEYS AND PEAKS / %" ROOF SHEATHING W/ PLY-CLIPS / ROOF FRAMING AND HURRICANE CLIPS PER ROOF FRAMING PLAN. 12" R-38 ATTIC INSULATION WITH EAVE BAFFLES
- PREFINISHED ALUM DRIP EDGE. COLOR AS SELECTED. PREFINISHED ALUM GUTTER (MATCH EXISTING PROFILE AND COLOR) -CONNECT TO ADJACENT EXISTING GUTTER. PROVIDE ALUMINUM DAMS AT BOTTOM OF VALLEYS AS REQ'D TO PREVENT STORM WATER SPOUTS. INSTALL NEW PREFINISHED 2x3 ALUM DOWNSPOUTS (WHERE SHOWN ON EXTERIOR ELEVATIONS) DOWN TO RECTANGULAR TO ROUND BOOT AT GRADE. TIE INTO EXISTING UNDERGROUND STORM DRAINAGE. FIELD VERIFY EXISTING CONDITIONS.
- 5. PREFINISHED .040 ALUMINUM BRAKE METAL ON ALL EXPOSED SURFACES OF EAVE, RAKE AND GABLE BOARDS (BOARD SIZE AS NOTED). EXTEND BRAKE METAL AS FLASHING BEHIND ADJACENT MATERIAL. BRAKE METAL COLOR AS SELECTED. 6. VENTED VINYL SOFFIT ON 2x FRAMING AT 24" OC.
- 7. SUSPENDED ACOUSTICAL LAY-IN CEILING AS SCHEDULED. 8. NEW STUCCO / BUILDING WRAP / ½" WALL SHEATHING / 2x6 STUDS AT 16" OC / 6" R-19 BATT INSULATION / 5/8" DRYWALL. STUCCO COLOR
- AND FINISH TO MATCH EXISTING. 9. NEW CULTURED STONE VENEER / SETTING BED / SCRATCH COAT / SELF-FURRED LATH / CONT WEEP SCREED AT BASE OF VENEER. STONE COLOR, PATTERN AND MORTAR TO MATCH & BLEND W/
- EXISTING. INSTALL PER MFRS INSTRUCTIONS. 10. CONTINUOUS 12" HIGH STRIP OF ALUM FLASHING (UNDER BUILDING PAPER) ON WALL SHEATHING COVERING TREATED BASE
- PLATE/CONCRETE JOINT. II. CULTURED STONE WATERTABLE ON CONTINUOUS GALY STEEL ANGLE (SIZED PER STONE MFR'S INSTALLATION INSTRUCTIONS). SECURE ANGLE TO EXTERIOR WALL WITH GALV 1/4"x3" LAG SCREWS AT 32" OC MAX. NEW WATERTABLE TO MATCH PROFILE OF AND ALIGN WITH EXISTING WATERTABLE. INSTALL THRU-WALL MASONRY FLASHING (DOTTED) UP 4" ONTO SHEATHING AND DOWN ON STEEL ANGLE UNDER
- WATERTABLE. EXTEND FLASHING 1/8" THRU FACE OF MORTAR. 12. CONTINUOUS 12" STRIP OF PREFINISHED .040 ALUM FLASHING SHOWN DOTTED (UNDER BUILDING PAPER) ON WALL SHEATHING DOWN OVER MASONRY FLASHING AND OUT I" TIGHT ATOP CULTURED STONE WATERTABLE. FLASHING COLOR TO BLEND WITH WATERTABLE COLOR.
- 13. %" DRYWALL / 2x4 STUDS 16" OC UP TIGHT TO UNDERSIDE OF FLOOR JOISTS / 3.5" HI DENS BATT INSULATION / THORO-SEALED CONCRETE FOUNDATION WALL
- 14. FINISH GRADE SEE SITE LAYOUT PLAN.
- 15. CONTINUOUS .040 ALUM FLASHING (SHOWN DOTTED) UP 12" ON SHEATHING (UNDER BUILDING WRAP), EXTEND 4" BELOW TOP OF FLOOR
- 16. REINFORCED CONCRETE SLAB ON FORM DECK ON STEEL JOISTS. SEE FLOOR FRAMING PLAN C/A2.I.
- 17. 1岁" RIGID INSULATION ADHERED TO EXPOSED INTERIOR FACES OF FOUNDATION WALL AS SHOWN.
- 18. 1岁" RIGID INSULATION WITH TAPERED TOP EDGE. TYP AT PERIMETER OF UPPER LEVEL FLOOR SLAB.
- 19. CONT ADHERED WATERPROOF MEMBRANE (SHOWN DOTTED) FROM FINISH GRADE DOWN FACE OF FOUNDATION WALL AND DOWN OVER TOP AND FRONT SURFACES OF FOOTING. PRIOR TO BACKFILLING, ADHERE CONT 3/4" PROTECTION BOARD TO FACE OF MEMBRANE ON FOUNDATION WALL. TYP AT ALL BELOW GRADE FOUNDATION WALLS AT ADDITION. 20. 8" OF TOPSOIL (TYP)
- 21. COMPACTED FREE DRAINING AGGREGATE BACKFILL.
- 22. UNDISTURBED EARTH OR COMPACTED GRANULAR FILL.
- 23. 4" PERF FOOTER DRAIN WITH CONTINUOUS GEOTECHNICAL FILTER SOCK SURROUNDED BY 12" OF GRAVEL FILL. TIE INTO EXISTING FOUNDATION DRAIN SYSTEM. FIELD VERIFY EXISTING CONDITIONS. 24. CONC FOOTING AS SCHEDULED.
- 25. 4" PERF UNDERSLAB DRAIN PIPE WITH CONT GEOTECHNICAL FILTER FABRIC SOCK SURROUNDED BY GRAVEL FILL AT EAST, NORTH AND WEST WALLS. PIPE TO EXIT BUILDING AND BREAK GRADE TO SURFACE DRAINAGE AT EXISTING RAVINE. FIELD VERIFY PATH WITH ARCHITECT.
- 26. 4" CONC SLAB WITH 6x6 WI.4xWI.4 WWF ON 6 MIL VAPOR BARRIER ON 4" OF WASHED STONE CHOKED WITH SAND ON UNDISTURBED EARTH OR COMPACTED FILL.
- 27. ½" EXPANSION MATERIAL. 28. 1/5" RIGID INSULATION FROM TOP OF SLAB DOWN TO TOP OF FOOTING. TAPER TOP OF INSULATION AT SLAB AS SHOWN.
- 29. EXISTING FOUNDATION WALL AND FOOTING. 30. NEW CONCRETE FOUNDATION WALL - WIDTH AS NOTED. KEY TO
- FOOTING AS SHOWN.
- 31. REBARS SIZE AND SPACING AS NOTED.
- 32. 12" x 16 GA RUNNER TRACK WITH .145 x %" POWDER ACTUATED FASTENERS AT 24" OC STAGGERED TOP AND BOTTOM.
- 33. #12 SCREW AT EACH JOIST.
- 34. ½" x 6" EXPANSION BOLT AT 48" OC 35. CONCRETE PATIO - SEE SITE LAYOUT PLAN.
- 36. 2x6 FIREBLOCKING AT EVERY STUD CAVITY 37. REMOVE EXISTING STUCCO FROM EXISTING CORNER TO EXISTING
- WINDOW. INSTALL NEW STUCCO AS SHOWN. 38. NEW STUCCO FINISH COAT / BROWN COAT / SCRATCH COAT. HOLD FINISH AND BROWN COATS 1/2" BACK FROM WINDOW FRAME. EXTEND
- SCRATCH COAT TO FLASHING AT FRAME. 39. INSTALL STRIP OF LEAD COATED COPPER FLASHING (DOTTED) CONT BEHIND STUCCO FROM EXISTING WINDOW FRAME TO NEW WINDOW FRAME. BEND FLASHING INTO SEALANT AT FRAMES AS SHOWN.
- 40. CONTINUOUS SEALANT AND BACKER ROD. 41. EXTEND THIS SEALANT/BACKER ROD JOINT UP THRU STUCCO FIELD
- AND ALONG SIDE OF UPPER LEVEL WINDOW UP TO ROOF EAVE. 42. CONT LEAD COATED COPPER FLASHING (DOTTED) UP BETWEEN WINDOW FRAME AND INTERIOR SILL, DOWN BEHIND WATERTABLE AND
- DOWN OVER STEEL ANGLE. EXTEND 1/8" OUT THRU MORTAR JOINT UNDER WATER TABLE. DAM UP AT JAMBS. 43. ADHERE DRYWALL TO CONC JAMB. TERMINATE IN J BEAD AT JAMB AND HEAD FRAME AT WINDOW AND AT DOOR OOB.
- 44. CONTINUOUS SEALANT. 45. EXISTING DRYWALL ON EXISTING MASONRY WALL.
- 46. EXISTING WINDOW AND SILL. 47. NEW 34" STAINED HARDWOOD WINDOW SILL.
- 48. NEW WINDOW.
- 49. NEW PARTITION AS SCHEDULED.
- 50. NEW DOOR AND FRAME AS SCHEDULED. 51. OVERHANG SILL I" PAST DRYWALL. INSTALL STAINED 为" COVE
- MOLDING AT WALL UNDER OVERHANG. 52. %" FIRE CODE DRYWALL AT AIR LOCK VESTIBULE WALLS AND AT
- UNDERSIDE OF ROOF FRAMING.
- 53. ALIGN AND BLEND NEW DRYWALL W/ EXISTING.

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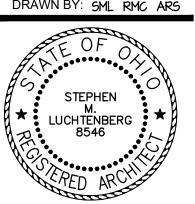
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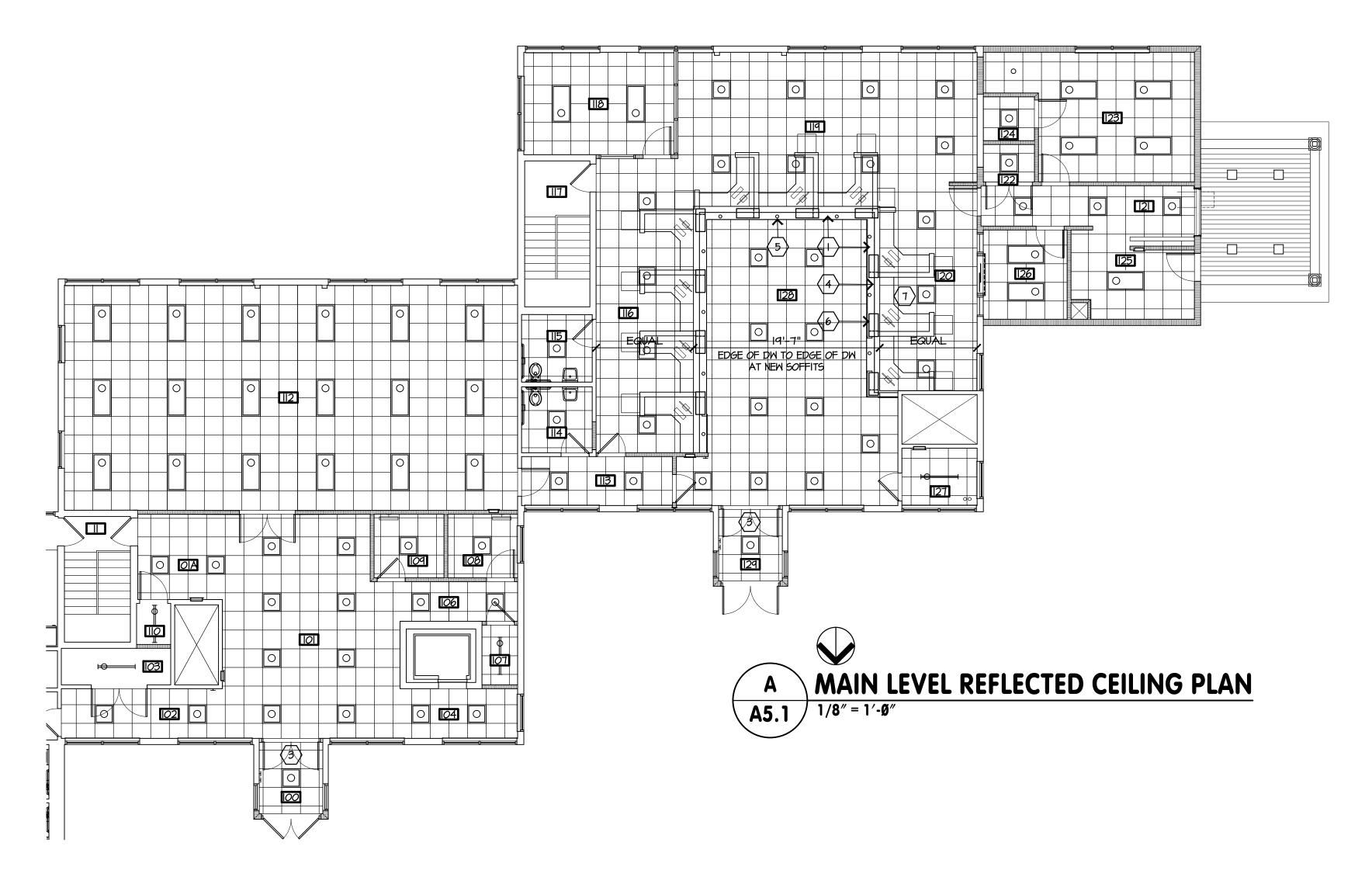
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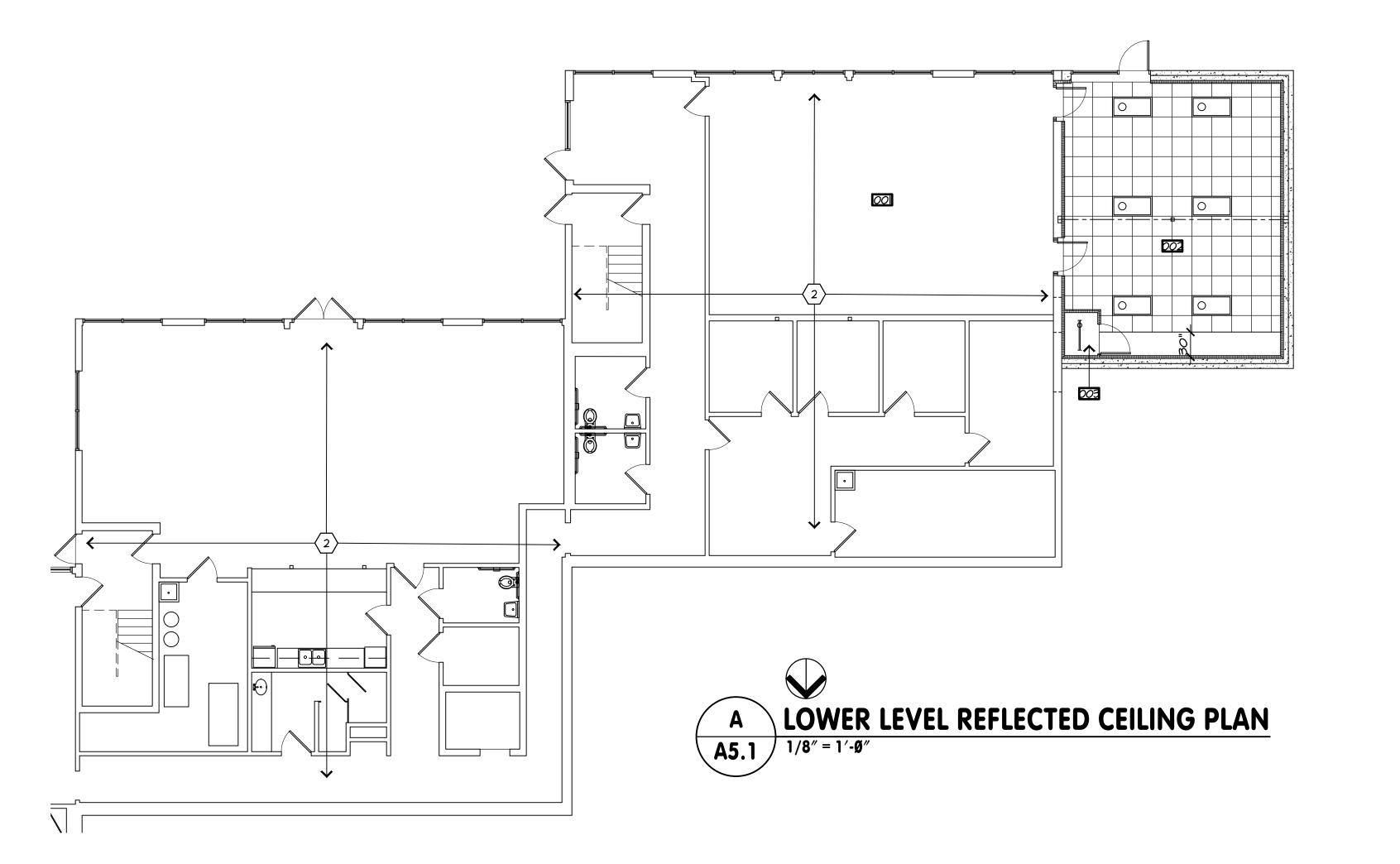


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> **SECTIONS & DETAILS**

A4.2





GENERAL RCP NOTES

- SEE ROOM FINISH SCHEDULE FOR CEILING TYPE, HEIGHT, AND DETAILS.
- 2. COORDINATE LAYOUT OF LIGHTING FIXTURES AND HVAC DEVICES WITH LIGHTING AND HVAC PLANS.

CODED NOTES

- NEW DRYWALL SOFFIT. SEE SHEET A2.6 FOR DETAILS. REPLACE EXISTING SUSPENDED LAY IN CEILING PANELS AND GRID MEMBERS WITH NEW TO MATCH EXISTING IF MARRED OR DAMAGED BY NEW ABOVE CEILING WORK. WHERE EXISTING CEILING PROJECTOR MOUNTS, CEILING SPEAKERS, ETC ARE NOTED TO BE REMOVED (ON DEMO PLANS) INSTALL NEW CEILING PANELS TO MATCH EXISTING. ALL OTHER SUSPENDED CEILING PANELS AND GRIDS ARE
- TO REMAIN AS IS.

 3. %" FIRE CODE DRYWALL AT UNDERSIDE OF ROOF FRAMING WITH SUSPENDED CEILING BELOW AS SCHEDULED.
- 4. CONTINUOUS REGLET IN DRYWALL SOFFIT FOR
- PLEXIGLASS PANELS. SEE DETAIL K/A2.6.

 5. RECESSED CAN LIGHT IN SOFFIT. CENTER LIGHT BETWEEN WIDGETS. SEE DETAIL K/A2.6 AND ELECT DWGS.

 6. WIDGET AT TELLER STATION BELOW SHOWN FOR
- 7. TELLER STATION BELOW SHOWN FOR CLARITY

FOR THE OU PICKERINGTON CENTER OMMISSIONERS:

THE REMODELING OF T FAIRFIELD COUNTY CO THE FAIRFIE

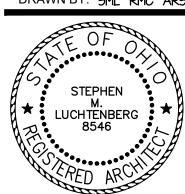
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REFLECTED **CEILING PLANS**

A5.1

0001. PROJECT DESCRIPTION:

- a. 5,000 SF OF INTERIOR REMODELING TO A NON OCCUPIED EXISTING TWO LEVEL 15,000 SF TENANT OFFICE BUILDING
- b. 23'-4"x30'-0" TWO LEVEL ADDITION TO ONE END OF THE BUILDING, INCLUDING A NEW HVAC SYSTEM
- NEW COVERED DRIVE THRU TELLER LANE AT THE ADDITION AND ASSOCIATED NEW PAVING.
- AIR-LOCK ENTRY ADDITIONS TO TWO OF THREE EXISTING ENTRIES.
- SECURITY ACCESS HARDWARE AT VARIOUS DOORS EXTERIOR SIDEWALK REPLACEMENT AND PATIO ADDITION
- INSTALLATION OF NEW GAS POWERED GENERATOR HOOKED UP TO TWO EXISTING ON-SITE BUILDINGS TWO NEW SEGMENTED CONCRETE BLOCK RETAINING WALLS AND ONE NEW CONCRETE RETAINING WALL.

0002. PROJECT TIMELINE AND ESTIMATED CONSTRUCTION COST

THE DURATION OF THE PROJECT IS ESTIMATED TO BE 190 CALENDAR DAYS FROM THE ISSUANCE OF THE NOTICE TO PROCEED. THE OWNER WILL ALLOW INSTALLATION OF THE GENERATOR TO OCCUR AFTER CONSTRUCTION COMPLETION WITHOUT IMPLEMENTING LIQUIDATED DAMAGES, HOWEVER ALL OTHER GENERATOR-RELATED WORK MUST BE COMPLETED WITHIN THE AFOREMENTIONED CONSTRUCTION PERIOD. THE ESTIMATED CONSTRUCTION COST OF THE PROJECT IS \$1,875,000.

0003. OWNER, OWNER'S REP AND CONTACT INFORMATION

THE OWNER OF THE FACILITY IS THE FAIRFIELD COUNTY COMMISSIONERS, LOCATED AT 210 EAST MAIN STREET, LANCASTER, OHIO 43130. THE OWNER'S CONTACT PERSON IS DENNIS KELLER, FAIRFIELD COUNTY FACILITIES MANAGER. STEVE LUCHTENBERG, OF VPL ARCHITECTS, INC, LANCASTER, OHIO (740-654-4048) SHALL ACT AS THE OWNER'S REPRESENTATIVE. ALL QUESTIONS AND INQUIRIES DURING BIDDING AND CONSTRUCTION ARE TO BE DIRECTED TO VPL ARCHITECTS.

0004. SITE UTILIZATION AND PROTECTION

- ALL TOOLS, EQUIPMENT, MATERIAL STORAGE, CONTRACTOR PARKING, DELIVERIES, ETC MUST BE KEPT WITHIN THE PROJECT SITE ACCESS LIMIT LINES AS SHOWN ON THE SITE SURVEY PLAN. THE CONTRACTOR SHALL PROVIDE A TEMPORARY 6' HIGH FENCE AROUND ALL PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY, STORAGE OF MATERIALS, DELIVERIES AND CONTRACTOR PARKING OCCURS. ALL CONSTRUCTION RELATED PERSONNEL AND MATERIAL DELIVERY PERSONNEL SHALL STRICTLY ADHERE TO THE SITE ACCESS PATH DESCRIBED IN ARTICLE 0151 OF THESE GENERAL NOTES. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT FROM DAMAGE THE EXISTING BUILDINGS, PAVING, SIDEWALKS, PATIOS, LIGHTING, TREES, ETC ON SITE THAT ARE TO REMAIN. THE CONTRACTOR SHALL RESTORE ANY SAID ITEMS THAT ARE DAMAGED DUE TO CONSTRUCTION TO THEIR ORIGINAL CONDITION PRIOR TO CONSTRUCTION.
- b. BUILDING #I AND THE UPPER LEVEL OF THE EAST 50'x50' POD OF BUILDING #2 SHALL BE OCCUPIED DURING CONSTRUCTION. UNLESS PERMISSION IS GRANTED BY THE OWNER NO LESS THAN THREE WORKING DAY'S PRIOR TO THE ONSET OF WORK WITHIN THE GENERATOR-RELATED WORK ACCESS LIMIT LINE, THE CONTRACTOR SHALL NOT UNDERTAKE ANY WORK THAT WILL DISTURB OR PROHIBIT THE OCCUPANTS FROM ACCESSING AND UTILIZING THEIR FACILITIES OR FROM PARKING ANYWHERE ON THE EXISTING PARKING LOT THAT IS OUTSIDE OF THE CONTRACTOR'S ACCESS LIMIT LINES.

0005. USE OF LOUD RADIOS, CD PLAYERS, ETC IS PROHIBITED ON SITE.

0006. SMOKING IS PROHIBITED WITHIN THE BUILDING.

CONSTRUCTION ACTIVITY SHALL ONLY OCCUR BETW 7:00 AM AND 6:00 PM MONDAY THRU SATURDAY

a. THIS PROJECT IS SUBJECT TO PREVAILING WAGE REQUIREMENTS.

- b. CONTRACTORS ARE ADVISED THOROUGHLY REVIEW THE OWNER'S INVITATION TO BID AND THE OWNER'S REQUIRED BID FORM, ALONG WITH OTHER PERTINENT INFORMATION THAT IS NOT INCLUDED HEREIN. THE ITB, BID FORM AND OTHER BID-RELATED DOCUMENTS AND INFORMATION CAN BE FOUND ON THE FAIRFIELD COUNTY WEB SITE.
- c. BID DUE DATE: ALL GENERAL CONTRACTOR BIDS ARE TO BE HAND DELIVERED OR MAILED VIA THE POSTAL SERVICE AND ARE DUE AT THE FAIRFIELD COUNTY COMMISSIONER'S OFFICE, THIRD FLOOR, 210 EAST MAIN STREET, LANCASTER, OHIO 43130, NO LATER THAN II:00 A.M. EST ON FRIDAY, MAY 20, 2022. EMAILED BIDS WILL NOT BE ACCEPTED. BIDS WILL BE PUBLICLY OPENED AT THAT TIME AND PLACE. d. RESUMES OF THE BIDDER'S PROPOSED IN-HOUSE PROJECT MANAGER AND THE BIDDER'S PROPOSED
- ON-SITE PROJECT SUPERINTENDENT ARE TO BE INCLUDED WITH THE BIDDER'S BID I. THE PROPOSED PROJECT MANAGER AND SITE SUPERINTENDENT MUST BOTH SPEAK ENGLISH AS THEIR PRIMARY LANGUAGE AND MUST HAVE AT LEAST FIVE YEARS OF EXPERIENCE IN THEIR CURRENT
- CAPACITY WORKING ON PROJECTS OF SIMILAR SCOPE, SIZE, COST AND COMPLEXITY. 2. INCLUDE WITH BOTH RESUMES A TYPEWRITTEN LIST OF AT LEAST FIVE PROJECTS COMPLETED BY THAT PERSON (IN THEIR CURRENT CAPACITY) WITHIN THE PAST 5 YEARS THAT ARE OF SIMILAR SCOPE, SIZE, COST AND COMPLEXITY TO THIS PROJECT. A BRIEF DESCRIPTION OF THE PROJECT AND CONTACT INFORMATION FOR THE OWNER OF THE PROJECT MUST BE PROVIDED FOR EVERY PROJECT ON EACH
- e. BY SIGNING THE BID FORM, THE BIDDER ACKNOWLEDGES THAT HE HAS CAREFULLY EXAMINED THE PROJECT SITE AND PREMISES, AND FROM HIS OBSERVATIONS AND HIS CAREFUL REVIEW OF THE CONSTRUCTION DOCUMENTS, IS SATISFIED AS TO THE NATURE OF THE WORK, THE CONSTRAINTS OF THE SITE AND SURROUNDING PROPERTIES AND PUBLIC SPACES, THE QUALITY OF THE MATERIALS AND ANY DIFFICULTIES LIKELY TO BE ENCOUNTERED, AND ANY OTHER ITEMS WHICH MAY AFFECT THE PERFORMANCE OF THE WORK, AND IS SATISFIED THAT THE PLANS AND SPECIFICATIONS FOR THE PROJECT ADEQUATELY DESCRIBE THE PROJECT SCOPE AND REQUIREMENTS. HE FURTHER ACKNOWLEDGES THAT HIS BID IS COMPLETELY BASED ON THESE CONSTRUCTION DOCUMENTS. INCLUDING ANY ADDENDA, AND HAS NOT RELIED IN ANY WAY ON ANY EXPLANATION OR INTERPRETATION, ORAL OR WRITTEN, FROM ANY OTHER SOURCE. THE BIDDER AGREES TO HOLD THE OWNER HARMLESS FOR HIS POTENTIAL NEGLIGENCE, ERROR OR OMISSIONS.
- f. ALL BIDS SHALL BE CONSIDERED VALID FOR A PERIOD OF SIXTY DAYS FROM THE BID DATE. a. THE OWNER RESERVES THE RIGHT TO WAIVE ALL FORMALITIES WITH THE BID PROCESS AND / OR TO REJECT ANY OR ALL BIDS FOR ANY REASON IF SO DEEMED TO BE IN THE BEST INTEREST OF THE

PRE-BID SITE VISITS

a. A PRE BID MEETING WILL BE CONDUCTED ON SITE BY THE OWNER AND THE ARCHITECT AT 10:30 AM ON MEDNESDAY, MAY II, 2021. ALL ATTENDING PARTIES SHALL PARK IN THE EXISTING PARKING LOT DIRECTLY IN FRONT OF BUILDING #2 AND ENTER THE BUILDING AT THE NORTH ENTRY DOOR OF THE WEST POD. SUFFICIENT TIME WILL BE GIVEN TO THE CONTRACTORS TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS THROUGHOUT THE SITE AND BUILDING. FAILURE TO DO SO WILL NOT BE REGARDED AS A BASIS FOR FUTURE 'ADD' CHANGE ORDERS.

b. BIDDERS MAY NOT VISIT THE SITE AT ANY OTHER TIME PRIOR TO THE BID DATE.

0009. ALLOWANCES AND UNIT PRICES

THE CONTRACTOR'S BID SHALL INCLUDE INSTALLED COSTS FOR TREES AND SHRUBS, CARPET SQUARES AND LUXURY VINYL PLANK FLOORING (LYT). HE SHALL UTILIZE THE FOLLOWING ALLOWANCE AND UNIT PRICING WHILE ASSEMBLING HIS BID.

- a. TREES AND SHRUBS ALLOWANCE OF \$2500 FOR PLANTINGS. SEE ARTICLE 0105 ON THIS SHEET FOR ADDITONAL INFO. THE OWNER WILL MAKE TREE AND SHRUB SELECTIONS AND SHALL PROVIDE A LANDSCAPE PLAN TO THE CONTRACTOR FOR SAID ITEMS DURING CONSTRUCTION.
- b. CARPET SQUARES CONTRACTOR'S BID SHALL INCLUDE INSTALLATION OF CARPET SQUARES WHERE SCHEDULED, UTILIZING AN INSTALLED PRICE OF \$6.50 PER SF (INCLUDING SUBSURFACE PREP). CONTRACTOR SHALL NOTE ON THE APPROPRIATE LINE ON THE BID FORM THE TOTAL SQUARE FOOTAGE OF CARPET SQUARE MATERIAL THAT HIS BID INCLUDES.
- C. LUXURY VINYL PLANK FLOORING CONTRACTOR'S BID SHALL INCLUDE INSTALLATION OF LUXURY VINYL PLANK FLOORING WHERE SCHEDULED, UTILIZING AN INSTALLED PRICE OF \$9.00 PER SF (INCLUDING SUBSURFACE PREP). CONTRACTOR SHALL NOTE ON THE APPROPRIATE LINE ON THE BID FORM THE TOTAL SQUARE FOOTAGE OF LYT MATERIAL THAT HIS BID INCLUDES.

0010. ALTERNATE BIDS

- THERE ARE FOUR ALTERNATE BIDS ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL NOTE ON THE DESIGNATED LINE ON THE BID FORM THE CHANGE TO HIS BID (WHETHER ADD OR DEDUCT) THAT EACH SPECIFIC ALT BID WILL MAKE:
- a. ALT BID 6-1 PROVIDE AND INSTALL GLASS-FIBER REINFORCED CONCRETE FLATWORK IN LIEU OF WELDED WIRE FABRIC REINFORCED CONCRETE FLATWORK AS CALLED FOR ON THE DRAWINGS. BIDDER TO ESTABLISH ALT BID BASED ON FIBER MFR'S RECOMMENDED FIBER / CONCRETE RATIO TO PRODUCE GLASS-FIBER REINF 4" CONCRETE SLAB STRENGTH TO EQUAL STRENGTH OF 4" SLAB REINFORCED WITH 6x6 WI.4xWI.4 WWF.
- b. ALT BID 6-2 PROVIDE AND INSTALL THREE PAINTED GALV STEEL POSTS EMBEDDED IN CONCRETE PIERS (AS DESCRIBED ON THE SITE LAYOUT PLAN) AS REQUIRED IF EITHER ALT BID E-I OR E-2 ARE ACCEPTED BY THE OWNER.
- c. ALT BID E-I SEE ELECTRICAL DRAWINGS FOR EXPLANATION d. ALT BID E-2 SEE ELECTRICAL DRAWINGS FOR EXPLANATION

- a. BIDS ARE TO BE SUBMITTED ON THE BASIS OF THE STANDARDS ESTABLISHED BY THE DRAWINGS AND THESE GENERAL NOTES. IF DURING THE BID PERIOD, BIDDERS DESIRE CONSIDERATION OF PRODUCTS THAT ARE NOT NAMED AS STANDARDS, THEY MUST SUBMIT WRITTEN REQUESTS TO THE ARCHITECT FOR REVIEW AND EVALUATION NOT LESS THAN TEN BUSINESS DAYS BEFORE THE DATE FOR RECEIPT OF BIDS. TELEPHONE AND ORAL REQUESTS FOR PRODUCT
- SUBSTITUTION WILL NOT BE CONSIDERED. b. SUBMISSION OF PROPOSED SUBSTITUTION SHALL INCLUDE:
- I. DESCRIPTION OF THE PRODUCT: TRADE NAME, MODEL/CATALOG NUMBER, ETC. 2. MANUFACTURER'S NAME, ADDRESS, TELEPHONE NUMBER, AND POINT OF CONTACT 3. NAME OF FABRICATOR, SUPPLIER AND INSTALLER (IF APPLICABLE) AND CONTACT INFO.
- 4. SHOP DRAWINGS, PRODUCT DATA, SAMPLES AND ALL OTHER INFORMATION NECESSARY FOR A THOROUGH EVALUATION.
- 5. A TYPE WRITTEN STATEMENT IDENTIFYING ALL POTENTIAL CHANGES IN OTHER MATERIALS, EQUIPMENT AND/OR SYSTEMS RESULTING FROM PROPOSED SUBSTITUTION.
- 6. SUBSTITUTIONS THAT WOULD REQUIRE SUBSTANTIAL REVISIONS TO THE CONSTRUCTION DOCUMENTS WILL NOT BE CONSIDERED.
- c. THE BURDEN OF PROOF OF THE MERIT OF A PROPOSED SUBSTITUTION IS THE RESPONSIBILITY OF THE PROPOSER. THE ARCHITECT SHALL NOT BE EXPECTED TO DO BACKGROUND RESEARCH FOR ANY PROPOSALS. INSUFFICIENT SUBMITTALS WILL BE REJECTED. I. SUBMITTAL OF A MFR'S BROCHURE ILLUSTRATING A LINE OF PRODUCTS, BUT WITHOUT CLEAR
- MARKINGS IDENTIFYING THE PROPOSED SUBSTITUTION WILL BE REJECTED. d. SUBSTITUTIONS ACCEPTED PRIOR TO THE BID WILL BE IDENTIFIED TO ALL BIDDERS VIA ADDENDA. e. SUBSTITUTIONS ACCEPTED AFTER THE AWARD OF THE CONTRACT SHALL BE HANDLED THROUGH

a. DISCREPENCIES IN THE DRAWINGS THAT ARE FOUND DURING THE BIDDING PERIOD NEED TO BE BROUGHT TO THE ARCHITECT'S ATTENTION NO LATER THAN FIVE WORKING DAYS PRIOR TO THE BID DATE IN ORDER TO BE CONSIDERED FOR THE FINAL ADDENDUM THAT WILL BE PUBLISHED A MINIMUM 72 HOURS PRIOR TO THE BID DATE AND TIME. I. ALL ADDENDA BECOME A PART OF THE CONTRACT DOCUMENTS AND MODIFY THE BIDDING

BID FORM. FAILURE TO DO SO MAY DISQUALIFY THE BIDDER.

- DOCUMENTS PRIOR TO BID SUBMITTAL. 2. BIDDERS SHALL ACKNOWLEDGE RECEIPT OF ALL ADDENDA IN THE SPACES PROVIDED IN THE
- b. IF THE CONTRACTOR OBSERVES THAT THE CONTRACT DOCUMENTS ARE AT VARIANCE WITH ANY APPLICABLE CODE, LAW, ORDINANCE, RULE OR REGULATION, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING AND SHALL CEASE WORK ON THAT PORTION OF THE CONTRACT UNTIL GIVEN WRITTEN APPROVAL TO PROCEED, BASED UPON A REMEDY TO THE ISSUE THAT IS APPROVED BY THE OWNER. IF THE CONTRACTOR OR ANY SUBCONTRACTOR PERFORMS WORK KNOWING IT TO BE CONTRARY TO ANY APPLICABLE CODE, LAW, ORDINANCE, RULE OR REGULATION AND DOES SO WITHOUT SUCH NOTICE TO THE ARCHITECT, THE CONTRACTOR SHALL BE FULLY LIABLE FOR THAT WORK AND SHALL BEAR ALL COSTS ASSOCIATED WITH BRINGING THE WORK INTO CODE COMPLIANCE.

THE ARCHITECT AND THEIR CONSULTANTS ARE THE AUTHORS OF THEIR RESPECTIVE DRAWINGS, GENERAL NOTES AND SPECIFICATIONS AND RETAIN ALL COMMON LAW, STATUTORY, COPYRIGHTS AND OTHER RESERVED RIGHTS. THIS INCLUDES ALL INTERPRETIVE SKETCHES AND ELECTRONIC DATA AS IT RELATES TO THE DRAWINGS AND GENERAL NOTES. THE CONTRACTOR, THEIR SUBCONTRACTORS AND MATERIAL AND EQUIPMENT SUPPLIERS ARE AUTHORIZED TO USE AND REPRODUCE THE DRAWINGS AND GENERAL NOTES SOLELY AND EXCLUSIVELY FOR THE EXECUTION OF THE WORK ON THIS PROJECT. ALL COPIES ARE TO INCLUDE THE NAME OF THE PROJECT, THE NAME OF THE ARCHITECT THE NAME(S) OF THEIR CONSULTANT(S) (IF APPLICABLE) AND THE COPYRIGHT NOTICE. THE USE OF THE DRAWINGS, GENERAL NOTES, INTERPRETIVE SKETCHES OR ELECTRONIC DATA FOR ANY OTHER PROJECT OR FOR ADDITIONS TO THIS PROJECT THAT ARE OUTSIDE THE SCOPE OF WORK IS PROHIBITED.

- 0014. FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR:
- a. TYPE AS APPROVED BY THE OWNER.
- 0015. NOTICE OF COMMENCEMENT: ALSO KNOWN AS "NOTICE OF PROJECT COMMENCEMENT" OR THE "AFFIDAVIT OF COMMENCEMENT" IS THE OFFICIAL DOCUMENT THAT DECLARES THE EXACT START DATE OF A CONSTRUCTION PROJECT.
- a. THE OWNER SHALL OBTAIN, COMPLETE, AND RECORD (FILE) THE NOTICE OF COMMENCEMENT WITH COUNTY WHERE THE PROJECT IS LOCATED IN ACCORDANCE WITH THE OHIO REVISED CODE (ORC)
- b. A COPY OF THE NOTICE OF COMMENCEMENT MUST BE POSTED BY THE GC AT THE PROJECT SITE.
- 0016. NOTICE OF FURNISHING: THE ORC REQUIRES MOST PARTIES WHO FURNISH LABOR AND/OR MATERIALS ON CONSTRUCTION PROJECTS TO SEND NOTICE OF FURNISHING IN ORDER TO SECURE LIEN RIGHTS. a. GC TO SUBMIT NOTICE OF FURNISHING IN ACCORDANCE WITH ORC 1311.05.

DIVISION 1 - GENERAL REQUIREMENTS

- OIOI. ALL WORK SHALL FULLY COMPLY WITH THE STANDARDS REQUIRED BY THE 2017 EDITION OF THE OHIO BUILDING CODE (OBC), FOR USE GROUP "B", HAVING "5-B" CONSTRUCTION TYPE, AS WRITTEN HEREIN.
- 0102. BEFORE BEGINNING THE WORK AND AS WORK PROGRESSES, FIELD DETERMINE AND VERIFY ALL DIMENSIONS AND ELEVATIONS AND VERIFY ALL LOCATIONS OF PLUMBING, HVAC, ELECTRICAL AND FIRE PROTECTION WORK AND UNDERGROUND UTILITIES.
- OIO3. THE CURRENT EDITIONS OF THE FOLLOWING CODES AND STANDARDS, WHETHER OR NOT SPECIFICALLY REFERENCED, ARE APPLICABLE TO THE WORK AND TO EACH GENERAL NOTES SECTION:
 - a. OHIO BUILDING CODE b. OHIO MECHANICAL CODE
 - c. OHIO PLUMBING CODE d. OHIO FUEL GAS CODE
 - e. NATIONAL ELECTRIC CODE
 - . AMERICAN SOCIETY OF SAFETY ENGINEERS AIO SERIES
 - q. NATIONAL FIRE PROTECTION ASSOCIATION 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION OPERATIONS
 - h. NATIONAL FIRE PROTECTION ASSOCIATION TO NATIONAL ELECTRIC CODE OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION 29 CFR 1910.12, CONSTRUCTION WORK
- OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION 29 CFR 1926, CONSTRUCTION STANDARDS . ICC/ANSI AII7.I, STANDARDS FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
- 0104. **INDEPENDENT TESTING SERVICES** AS LISTED IN THE STRUCTURAL ENGINEERING DRAWINGS ARE TO BE PROVIDED, SCHEDULED, COORDINATED AND PAID FOR BY THE CONTRACTOR FOR SOIL BEARING AT FOOTINGS, CONCRETE, AND WELDED AND OR BOLTED STEEL CONNECTIONS. 0105. ALLOWANCES
- a. CONTRACTOR IS TO PROVIDE A \$2,500 ALLOWANCE FOR LANDSCAPE MATERIALS AND PLANTINGS (TREES AND SHRUBS) AS LISTED ON THE BID FORM.
- b. THIS ALLOWANCE SHALL INCLUDE COST TO THE CONTRACTOR OF SPECIFIC PRODUCTS AND MATERIALS ORDERED BY THE OWNER OR SELECTED BY THE ARCHITECT AND SHALL INCLUDE FREIGHT, INSURANCE, AND DELIVERY TO THE PROJECT SITE.
- c. UNLESS OTHERWISE INDICATED, THE CONTRACTOR'S COSTS FOR RECEIVING AND HANDLING AT PROJECT SITE, LABOR, INSTALLATION, OVERHEAD AND PROFIT, AND SIMILAR COSTS RELATED TO PRODUCTS AND MATERIALS UNDER THE ALLOWANCE SHALL BE INCLUDED AS PART OF THE CONTRACT SUM AND NOT PART OF THE ALLOWANCE.

0106. SCHEDULE OF VALUES: a. NO LATER THAN FIVE WORKING DAY'S FROM NOTICE TO PROCEED, THE CONTRACTOR IS TO

- PROVIDE TO THE ARCHITECT A THOROUGH SCHEDULE OF VALUES FOR REVIEW AND APPROVAL. b. SCHEDULE OF VALUES TO BE COMPRISED OF A CSI FORMATTED LIST OF CONSTRUCTION SERVICES, WITH SUBSTANTIAL BREAKDOWN OF PRODUCTS WITHIN EACH DIVISION, PROVIDING SEPARATE AMOUNTS FOR LABOR AND MATERIAL FOR EACH BREAKDOWN
- 0107. PAY APPLICATIONS a. UTILIZE AIA 6702 FORM, THE CONTRACTOR SHALL SUBMIT THREE COPIES TO THE ARCHITECT NO LATER THAN THE FIFTEENTH OF EACH MONTH. THE PAY APPLICATION SHALL: I. LIST ALL APPROVED CHANGE ORDERS.
 - 2. INCLUDE CONTRACTOR'S AND THEIR SUBCONTRACTOR'S PARTIAL, CONDITIONAL UPON PAYMENT, WAIVERS OF LIEN IN THE FORMAT OUTLINED IN STATE OF OHIO REVISED CODE. 3. AN UPDATED SCHEDULE OF VALUES THAT SUBSTANTIATES THE CONTRACTOR'S RIGHT TO
 - 3.I. PAYMENT FOR MATERIALS STORED OFF SITE WILL ONLY BE APPROVED IF CONTRACTOR PROVIDES INSURANCE CERTIFICATE FOR THE OFF-SITE STORAGE PROPERTY AND ALSO
- PROVIDES PHOTOGRAPHS OF THE STORED MATERIALS. b. THE OWNER SHALL MAKE PAYMENT TO THE CONTRACTOR WITHIN THIRTY DAYS OF - RECEIPT OF THE PAY APPLICATION. HOWEVER, THE OWNER RESERVES THE RIGHT TO WITHHOLD PAY, IN WHOLE OR IN PART, TO SUCH EXTENT AS MAY BE NECESSARY TO PROTECT THE OWNER
- FROM LOSS BECAUSE OF: I. DEFECTIVE WORK NOT REMEDIED.
- 2. DAMAGE CAUSED BY THE CONTRACTOR. 3. DELAYS CAUSED BY THE CONTRACTOR, SUBCONTRACTORS AND/OR MATERIAL SUPPLIERS. c. RETAINAGE: SEE OWNER'S ITB. EIGHT PERCENT (8%) WILL BE HELD IN ESCROW FROM EACH PAY
- REQUEST UNTIL THE PROJECT IS FIFTY PERCENT (50%) COMPLETED. FROM THAT POINT THROUGH COMPLETION OF THE PROJECT A FIVE PERCENT (5%) RETAINAGE WILL BE WITHHELD. d. RETAINAGE WILL BE RELEASED UPON FINAL ACCEPTANCE OF THE BUILDING BY THE OWNER AND

THE ARCHITECT AND THE OWNER'S RECEIPT OF TRAINING AND CLOSE-OUT DOCUMENTATION.

- 0108. CONTRACTOR'S PROJECT MANAGEMENT SOFTWARE PROGRAM a. IF THE CONTRACTOR UTILIZES A PROJECT MANAGEMENT SOFTWARE PROGRAM FOR ORGANIZATION OF AND TRANSMISSION OF RFI'S, SHOP DRAWING SUBMITTALS, PAY REQUESTS, ETC TO THE ARCHITECT, THE CONTRACTOR, AT NO ADDITIONAL COST TO THE CONTRACT, AND PRIOR TO THE
 - ONSET OF CONSTRUCTION, SHALL: PAY FOR AND UPLOAD ANY REQUIRED SOFTWARE TO THE ARCHITECT'S COMPUTER NETWORK. 2. PROVIDE THE ARCHITECT, AT THE ARCHITECT'S OFFICE, A MINIMUM OF FOUR (4) HOURS OF IN
 - DEPTH TRAINING ON HOW TO UTILIZE THE CONTRACTOR'S SOFTWARE PROGRAM. 3. PROVIDE THE ARCHITECT WITH ONGOING TRAINING FOR THE CONTRACTOR'S SOFTWARE PROGRAM OVER THE PHONE AS NEEDED THROUGHOUT THE PROJECT.

- a. THE OWNER, WITHOUT INVALIDATING THE CONTRACT, MAY ORDER CHANGES IN THE WORK CONSISTING OF ADDITIONS, DELETIONS OR OTHER REVISIONS. b. TO THE EXTENT THAT THE TIME FOR CONTRACT COMPLETION OR THE CONTRACT PRICE IS
- AFFECTED, THE CONTRACT MAY BE ADJUSTED BY CHANGE ORDER. c. THE CONTRACTOR SHALL NOT PROCEED WITH ANY CHANGE IN THE WORK WITHOUT WRITTEN AUTHORIZATION. FAILURE OF THE CONTRACTOR TO OBTAIN A CHANGE ORDER PRIOR TO PROCEEDING WITH WORK THAT AFFECTS THE CONTRACT COST, OR THE TIME FRAME FOR
- CONTRACT COMPLETION, WAIVES THE CONTRACTOR'S RIGHT TO REQUEST ADDITIONAL TIME OR COMPENSATION BEYOND THE CONTRACT. d. CHANGE ORDERS SHALL BE HANDLED AS FOLLOWS:
- I. THE CONTRACTOR SHALL DISCUSS THE PROPOSED CHANGE, ALL RELATED ISSUES AND ALL
- AFFECTED WORK WITH THE ARCHITECT. 2. THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT A DETAILED BULLETIN OUTLINING THE EXTENT OF THE CHANGES AND ALL AFFECTED ASPECTS OF THE PROJECT, ASSOCIATED COSTS,
- a) CONTRACTOR'S LABOR COSTS.

INCLUDING THE FOLLOWING LINE ITEM INFORMATION:

- b) LABOR PAYROLL TAXES, WORKMAN'S COMP, FRINGES, ETC. c) EQUIPMENT RENTAL (IF ANY).
- d) DETAILED LIST OF DEDUCTED ITEMS INCURRED BY THE CHANGES TO THE WORK (IF ANY) OII5. ALL WORK IS TO BE INSTALLED STRAIGHT, PLUMB, LEVEL AND IN TRUE ALIGNMENT, SHIMMING AS e) OVERHEAD (TELEPHONE, FACSIMILE, POSTAGE, SCAFFOLDING, OFFICE LABOR, ETC.).
- f) MATERIAL QUANTITIES AND COSTS.
- a) PROFIT ON ITEMS "a" THROUGH "f." h) SUBCONTRACTOR'S COST TO THE CONTRACTOR. i) CONTRACTOR'S MARK UP ON SUBCONTRACTOR'S COST
- I) LENGTH OF REQUESTED TIME EXTENSION (IF APPLICABLE) 3. UPON REVIEW AND ACCEPTANCE OF THE SUBMITTED BULLETIN BY THE ARCHITECT, THE CONTRACTOR SHALL PREPARE A CHANGE ORDER OUTLINING THE PROPOSED CHANGES IN THE WORK AND ALL ADJUSTMENTS TO THE CONTRACT COST AND THE CONTRACT COMPLETION TIME. OILS & OILS. NOT USED, UPON RECEIPT OF SAID CHANGE ORDER SIGNED BY THE OWNER AND ARCHITECT, THE CONTRACTOR SHALL PROCEED WITH THE CHANGES TO THE WORK.
- OIIO. THE ARCHITECT WILL PROVIDE CONSTRUCTION OBSERVATION ON THIS PROJECT AND WILL REPRESENT THE OWNER. THE ARCHITECT AND HIS CONSULTANTS SHALL NOT BE HELD RESPONSIBLE, HOWEVER, O121. INSTALLATION OF ALL MATERIAL IS TO BE IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED FOR THE ACTS OR OMISSIONS OR VARIATIONS FROM THE DRAWINGS AND THESE GENERAL NOTES BY THE OWNER, CONTRACTOR, ANY SUBCONTRACTOR OR THEIR AGENTS OR EMPLOYEES OR ANY OTHER PERSON PERFORMING OR SUPERVISING ANY OF THE WORK.
- OIII. PRE-CONSTRUCTION SUBMITTALS a. AT LEAST TWO WEEKS PRIOR TO THE ONSET OF CONSTRUCTION, THE CONTRACTOR SHALL
 - SUBMIT THE FOLLOWING DOCUMENTS TO THE ARCHITECT FOR APPROVAL: I. SITE UTILIZATION PLAN. THIS PLAN SHALL BE TO SCALE AND SHALL SHOW PROPOSED AREAS FOR MATERIAL STAGING, PORTABLE STORAGE FACILITIES, EQUIPMENT STORAGE, JOB TRAILER, EMPLOYEE PARKING, PORTA POTTIES, DELIVERY TRUCK PARKING, TOPSOIL STOCKPILING, ETC.
 - 2. PROJECT SCHEDULE. THIS SHALL ILLUSTRATE, IN DETAILED GRAPHIC FORM, THE CONTRACTOR'S PLANNED SCHEDULE FOR ALL FACETS OF THE PROJECT, INCLUDING, BUT NOT LIMITED TO, DELIVERIES OF MATERIALS, SHOP DRAWING SUBMITTALS, CONSTRUCTION PROGRESS MEETINGS, START AND FINISH DATES OF WORK TO BE DONE (BROKEN OUT BY TRADE, ROUGH-IN, FINISH, ETC), DATE OF SUBSTANTIAL COMPLETION, AND PUNCH LIST. 3. SCHEDULE OF VALUES. CONTRACTOR SHALL USE AIA FORM 6703 AND SHALL LIST ALL
 - COMPONENTS OF THE PROJECT UTILIZING STANDARD CSI DIVISIONS AND SUBDIVISIONS. 4. SCHEDULE OF SUBMITTALS. 4.I. INFORMATION ON THE SCHEDULE OF SUBMITTALS IS TO INCLUDE THE SECTION REFERENCE, A BRIEF DESCRIPTION OF WHAT IS BEING SUBMITTED (PRODUCT DATA, SHOP DRAWINGS, TESTING DATA, SAMPLES, ETC.), ORDER LEAD TIME AND THE
 - INTENDED DATE OF SUBMISSION TO THE ARCHITECT. 4.2. THE CONTRACTOR SHALL PROVIDE THE SCHEDULE OF SUBMITTALS TO THE ARCHITECT IN ELECTRONIC PDF COPY AND HARD COPY. UPDATES TO THIS SCHEDULE ARE TO BE MADE, WITH ALL REVISIONS CLEARLY IDENTIFIED, AND SENT TO THE ARCHITECT
 - TWO DAYS PRIOR TO EACH PROGRESS MTG. 5. CONTRACTOR'S BUILDER'S RISK INSURANCE CERTIFICATE FOR THIS PROJECT.
- Oll2. SHOP DRAWING SUBMITTALS . FOR EACH DIVISION SECTION SUBMITTAL AND RE-SUBMITTAL, A MINIMUM TEN CALENDAR DAYS (NOT INCLUDING DELIVERY TIME) IS TO BE ALLOWED FOR REVIEW BY THE ARCHITECT. A MINIMUM FIFTEEN (15) CALENDAR DAYS (NOT INCLUDING DELIVERY TIME) IS TO BE ALLOWED FOR REVIEW
- OF STRUCTURAL STEEL b. ACCEPTANCE OF ELECTRONIC SUBMISSION OF SUBMITTALS WILL BE DETERMINED BY THE
- c. EACH SUBMITTAL IS TO CONTAIN ANY AND ALL INFORMATION NECESSARY FOR THE ARCHITECT AND ENGINEER TO REVIEW FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. PRODUCT DATA, DETAILS, TESTING DATA, INSTALLATION INSTRUCTIONS, SHOP DRAWINGS
- MAINTENANCE INSTRUCTIONS, TEMPLATES, CARE INSTRUCTIONS, SAMPLES, ETC. 2. SEPARATE ITEMS OF AN ASSEMBLY WILL BE REVIEWED ONLY IF ALL ITEMS OF THE ASSEMBLY ARE INCLUDED IN THE SUBMITTAL. INCOMPLETE SUBMITTALS WILL BE SUMMARILY REJECTED. 3. INFORMATION (Ie ITEM, MODEL NUMBER, FINISH, ETC.) SHALL BE CLEARLY MARKED BY ARROW,
- UNDERLINE, CIRCLE, ETC. USE OF COLORED HIGH-LIGHTERS TO MARK INFORMATION WILL NOT BE ACCEPTED. 4. INCOMPLETE SUBMITTALS OR SUBMITTALS NOT ANNOTATED AS REVIEWED AND APPROVED BY THE CONTRACTOR WILL NOT BE ACCEPTED OR REVIEWED.
- d. EACH SUBMITTAL IS TO HAVE A COVER SHEET THAT IS CLEARLY LABELED WITH THE CONTRACTOR'S NAME, ADDRESS AND TELEPHONE NUMBER, THE NAME AND ADDRESS OF THE PROJECT, THE NAME, ADDRESS AND TELEPHONE NUMBER OF THE INSTALLING CONTRACTOR OR MATERIAL SUPPLIER, REFERENCE TO THE SPECIFICATION SECTION WITH DESCRIPTION AND THE CONTRACTOR'S SUBMITTAL STAMP ACKNOWLEDGING REVIEW AND APPROVAL. PROVIDE AMPLE
- SPACE ON THE COVER SHEET FOR ARCHITECT AND ENGINEER REVIEW STAMPS. I. THE CONTRACTOR'S APPROVAL SHALL INDICATE REVIEW AND APPROVAL OF THE CORRECTNESS AND COMPLETENESS OF SHOP DRAWINGS, SAMPLES, PRODUCT DATA AND TEST DATA FOR FIT, FIELD CONNECTIONS, ELEVATIONS, DIMENSIONING (INCLUDING FIELD MEASUREMENTS), ACCURACY OF QUANTITIES, VERIFICATION OF CATALOG/PRODUCT/ITEM NUMBERS, COORDINATION AND PERFORMANCE OF THE WORK BETWEEN EACH TRADE AND
- COMPLIANCE WITH THE CONTRACT DOCUMENTS. SUBMITTALS INVOLVING ENGINEERING DESIGN SERVICES SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER, CURRENTLY REGISTERED IN THE STATE OF OHIO, FOR THE DISCIPLINE
- INVOLVED. a. SUBMITTALS THAT REQUIRE COLOR OR PATTERN SELECTIONS BY THE ARCHITECT SHALL BE SUBMITTED HARD COPY, WITH MANUFACTURER'S ORIGINAL COLOR PALETTE BROCHURE OR COLOR SAMPLE KIT INCLUDED. COPIES OF COLOR PALETTES, OR ELECTRONIC SUBMISSION OF COLOR PALETTES WILL NOT BE REVIEWED. WHEN HARD COPIES ARE SUBMITTED, A MINIMUM OF FOUR ARE TO BE SUBMITTED; TWO OF WHICH WILL BE RETURNED TO THE CONTRACTOR AT COMPLETION OF REVIEW BY THE ARCHITECT AND ENGINEER. THE CONTRACTOR IS TO PROVIDE ADDITIONAL HARD
- COPIES WHEN NEEDED. h. ONE COPY OF EACH SUBMITTAL, BEARING THE ARCHITECT'S AND/OR ENGINEER'S ORIGINAL STAMP AND SIGNATURE, SHALL BE MAINTAINED AT THE JOBSITE AT ALL TIMES.
- 1. PROCEDURES AND TIME FRAMES INDICATED IN THIS SPECIFICATION SECTION WILL APPLY TO ALL SUBMITTALS DEEMED BY THE ARCHITECT TO BE REJECTED OR REVISED AND RESUBMITTED. THE CONTRACTOR IS RESPONSIBLE FOR DISSEMINATION OF ARCHITECT AND ENGINEER REVIEWED
- SUBMITTALS TO THEIR SUBCONTRACTORS, SUPPLIERS, ETC. k. THE CONTRACTOR'S REVIEW AND APPROVAL STAMP OR OTHER APPROVAL METHODS OF THE VARIOUS DESIGNATED APPROVAL AUTHORITIES SHALL NOT BE THE SAME AS THOSE OF THE ARCHITECT. HANDWRITTEN NOTES AND SIGNATURES ON THE SUBMITTAL BY THE CONTRACTOR, THEIR SUBCONTRACTORS OR THEIR SUPPLIERS ARE TO BE IN BLUE INK.
- . REVIEW OF SUBMITTALS BY THE ARCHITECT AND ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE DRAWINGS, ASSOCIATED CALCULATIONS OR FROM DEVIATIONS IN THE CONTRACT DOCUMENTS UNLESS THE DEVIATIONS ARE SPECIFICALLY AND CLEARLY CALLED TO THE ARCHITECT'S ATTENTION IN THE LETTER OF
- TRANSMITTAL AND WITHIN THE SUBMITTAL. m. REVIEW OF THE SUBMITTAL BY THE ARCHITECT AND ENGINEER DOES NOT INCLUDE VERIFICATION OF DIMENSIONS OR ELEVATIONS OR QUANTITIES AND SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY, INCLUDING RESPONSIBILITY FOR ACCURACY AND AGREEMENT OF

DIMENSIONS, ELEVATIONS AND DETAILS. n. THE ARCHITECT AND ENGINEER REVIEW STAMP ACTION BLOCKS WILL HAVE THE FOLLOWING

- I. "REVIEWED" MEANS THAT IN THE ARCHITECT'S OPINION, THE SUBMITTAL GENERALLY APPEARS TO CONFORM TO THE RESPECTIVE REQUIREMENTS OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ACTUAL QUANTITIES OF COMPONENTS, DIMENSIONS, FABRICATION METHODS, ASSEMBLY PROCESSES, MANUFACTURING, INSTALLATION, APPLICATION AND ERECTION PROCESSES AS ILLUSTRATED AND DESCRIBED IN THE SUBMITTAL
- COMPLY WITH THE CONSTRUCTION DOCUMENTS. 2. "REVIEWED AS CORRECTED" MEANS THAT THE SUBMITTAL GENERALLY APPEARS TO CONFORM TO THE RESPECTIVE REQUIREMENTS OF THE CONTRACT DOCUMENTS UPON INCORPORATION OF THE REVIEWER'S CORRECTIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT ACTUAL QUANTITIES OF COMPONENTS, DIMENSIONS, FABRICATION METHODS, ASSEMBLY PROCESSES, MANUFACTURING, INSTALLATION, APPLICATION AND ERECTION PROCEED AS CORRECTED, ILLUSTRATED AND DESCRIBED IN THE SUBMITTAL COMPLY WITH THE
- 3. "REVISE AND RESUBMIT" MEANS THAT WITHIN THE SUBMITTAL THERE IS INFORMATION THAT REQUIRES CORRECTION BY THE SUBMITTER, RESUBMITTAL AND REVIEW PRIOR TO PROCEEDING WITH FABRICATION, ASSEMBLY, MANUFACTURE, INSTALLATION, APPLICATION AND ERECTION. PROCEDURES AND TIME FRAMES INDICATED IN THIS SPECIFICATION SECTION WILL APPLY.

CONSTRUCTION DOCUMENTS.

4. "REJECTED" MEANS THAT THE SUBMITTAL IS DEFICIENT TO THE DEGREE THAT THE REVIEWER CANNOT CORRECT THE SUBMITTAL WITH A REASONABLE DEGREE OF EFFORT AND THAT THE REVIEWER HAS NOT MADE A THOROUGH REVIEW OF THE SUBMITTAL. THE SUBMITTAL NEEDS TO BE CORRECTED BY THE CONTRACTOR AND RESUBMITTED. PROCEDURES AND TIME FRAMES INDICATED IN THE SPECIFICATION SECTION WILL APPLY.

- o. WITHIN TEN DAYS OF AUTHORIZATION TO PROCEED, THE CONTRACTOR SHALL PROVIDE THE ARCH A SCHEDULE OF SUBMITTALS FOR THE ENTIRE PROJECT. FOR EACH SUBMITTAL, THIS SCHED SHALL INCLUDE THE INTENDED DATE OF SUBMISSION TO THE ARCHITECT, THE SECTION REFERENCE, THE ANTICIPATED ORDERING LEAD TIME FOR THE ITEM, A BRIEF DESCRIPTION OF WHAT WILL BE SUBMITTED (PRODUCT DATA, SHOP DRAWINGS, TESTING DATA, SAMPLES, ETC). THE CONTR SHALL UPDATE THIS LIST EVERY 2 WEEKS AND DISCUSS ALL UPDATES AT EACH PROGRESS MEETING.
- OII3. STORAGE TRAILERS, CONTAINERS, ETC. SHALL BE FURNISHED AND PAID FOR BY THE CONTRACTOR. a. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR PROTECTION OF MATERIALS, TOOLS AND EQUIPMENT STORED AT THE PROJECT SITE.
- 0114. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MAINTAIN DATE AND TIME STAMPED PHOTOGRAPHIC EVIDENCE OF THE WORK. PROVIDE AN ORGANIZED SET IN THE OWNER'S CLOSE-OUT DOCUMENTS. THIS INCLUDES, BUT IS NOT NECESSARILY LIMITED TO:
- a. EXISTING CONDITIONS PRIOR TO THE START OF DEMOLITION b. EXISTING CONDITIONS THAT HAVE BEEN UNCOVERED THAT WERE CONCEALED IN WALLS, FLOORS
- AND ABOVE THE CEILING; :. NEW WORK PRIOR TO BEING CONCEALED IN WALLS, FLOORS AND ABOVE THE CEILING; d. DAMAGE TO ADJACENT EXISTING FINISHES PRIOR TO REPAIR OR REPLACEMENT;

e. DAMAGE TO NEW FINISHES PRIOR TO REPAIR OR REPLACEMENT.

- REQUIRED. ALL SHIMS ARE TO BE CONCEALED. ALL WORK SHALL BE NEATLY AND ACCURATELY FITTED," SCRIBED AND THOROUGHLY SECURED. MITERS AND OTHER JOINTS SHALL BE PLANED AND SANDED. ALL WORK SHALL BE LEFT CLEAN AND FREE FROM WARP, TWIST, OPEN JOINTS AND OTHER DEFECTS.
- OII6. THE ARCHITECT WILL DECIDE ALL QUESTIONS THAT MAY ARISE AS TO THE QUALITY OR ACCEPTABILITY OF MATERIALS FURNISHED AND THE WORK PERFORMED. THE ARCHITECT WILL DECIDE ALL QUESTIONS REGARDING THE INTERPRETATION OF THE DRAWINGS AND GENERAL NOTES.
- OIIT. DO NOT CLOSE, BLOCK, OR OTHERWISE OBSTRUCT ROOMS, BUILDING EXITS, CORRIDORS, WALKWAYS, OR OTHER MEANS OF EGRESS DURING CONSTRUCTION OPERATIONS. 0120. ALL WORK AND MATERIALS SHALL MEET OR EXCEED ALL APPLICABLE REFERENCED AND NOT
- REFERENCED STANDARDS, FEDERAL, STATE, COUNTY AND LOCAL REQUIREMENTS AND CONFORM TO CODES AND ORDINANCES OF AUTHORITIES HAVING JURISDICTION.
- INSTRUCTIONS, DETAILS AND SPECIFICATIONS. 0122. WHEN THE OWNER HAS RECORDED AND ISSUED THE NOTICE OF COMMENCEMENT, THE CONTRACTOR IS
 - a. PROCEED IMMEDIATELY WITH THE WORK; b. REFER TO GENERAL NOTES SECTION 0106, 0111, AND OTHER DIVISIONS IN THESE GENERAL NOTES FOR SUBMITTALS AND OTHER DOCUMENTATION THAT IS TO BE PROVIDED; AND WITHIN SEVEN (7)
 - COORDINATE, WITH THE OWNER AND THE ARCHITECT, THE SCHEDULE FOR ON-SITE PROJECT PROGRESS MEETINGS AT TWO WEEK INTERVALS.
 - 2. DISTRIBUTE TO THE OWNER AND THE OWNER'S REPRESENTATIVE, THE FINAL VERSION OF THE CONSTRUCTION SCHEDULE IN HARD COPY AND EMAIL IN PDF FORMAT 3. SUPPLY AND COMPLETE THE AGREEMENT BETWEEN OWNER AND CONTRACTOR AND FORWARD
- 4. SUBMIT, TO THE OWNER, COPIES OF THEIR WORKER'S COMPENSATION AND LIABILITY INSURANCE 0123. THE OWNER WILL OBTAIN AND PAY FEES FOR THE PLAN APPROVAL / BUILDING PERMITS FROM THE
- JURISDICTION HAVING AUTHORITY (AHJ). UNLESS OTHERWISE NOTED, OTHER FEDERAL, STATE, COUNTY AND LOCAL PERMITS REQUIRED FOR THE WORK SHALL BE OBTAINED BY AND PAID FOR BY THE
- 0124. THE CONTRACTOR AND EACH SUBCONTRACTOR WILL BE REQUIRED TO REGISTER WITH THE BUILDING DEPARTMENT HAVING JURISDICTION AND PAY ALL APPROPRIATE FEES BEFORE THE START OF WORK. 0125. INSPECTIONS OF INSTALLED WORK, AS ARRANGED BY THE CONTRACTOR, SHALL BE PERFORMED BY
- a. TAKING PHOTOGRAPHS OF WORK TO BE COVERED IN LIEU OF PHYSICAL INSPECTION BY THE AHJ WILL REQUIRE PRIOR AUTHORIZATION BY THE AHJ AND THE ARCHITECT. 0126. THE CONTRACTOR SHALL OBTAIN AND PAY FOR THE FOLLOWING SERVICES REQUIRED FOR THE

THE ENTITY HAVING JURISDICTION. WORK SHALL NOT BE COVERED UNTIL APPROVED BY INSPECTION

- FIELD DETERMINING AND VERIFYING THE EXACT LOCATIONS OF THE BUILDING(S), GANOPY
- PARKING AREAS, AND DRIVEWAYS. 2. FIELD DETERMINING AND VERIFYING THE EXACT LOCATION AND DEPTH OF ALL NEW AND EXISTING GAS, WATER, SANITARY, STORM WATER SYSTEMS AND ELECTRICAL UTILITIES.
- 3. FIELD DETERMINING AND VERIFYING NEW FINISHED FLOOR ELEVATIONS. 4. FIELD DETERMINING AND VERIFYING NEW AND EXISTING GRADE ELEVATIONS b. ANY OTHER PROFESSIONAL ENGINEERING SERVICES SPECIFIED OR REQUIRED TO COMPLETE THE
- c. ENGINEERING/DESIGN FEES FOR WORK BY THE ELECTRICAL AND NATURAL GAS UTILITY

d. ALL TESTING AS REQUIRED IN THESE DOCUMENTS TO COMPLETE THE WORK.

TO THE OWNER.

PROJECT.

- 0128. **DEFINITIONS** I. THE AGREEMENT AND GENERAL SUPPLEMENTARY CONDITIONS TO THE AGREEMENT BETWEEN
 - THE OWNER AND THE CONTRACTOR. 2. DRAWINGS
 - 3. GENERAL NOTES 4. ADDENDA NOT RELATED TO BIDDING REQUIREMENTS.
 - 5. MODIFICATIONS IN THE FORM OF WRITTEN AMENDMENT TO THE AGREEMENT, CHANGE ORDER, CONSTRUCTION CHANGE DIRECTIVE OR WRITTEN ORDER FOR MINOR CHANGE IN THE WORK ISSUED BY THE OWNER ARCHITECT. b. WORK I. CONSTRUCTION AND SERVICES OUTLINED IN AND REQUIRED BY THE CONTRACT DOCUMENTS

2. INCLUDES ALL COMPETENT AND QUALIFIED LABOR, MATERIALS, INSURANCES, FEES, BONDS,

WARRANTIES, TAXES, PERMITS, INSPECTIONS, LICENSES, EQUIPMENT, TOOLS, STORAGE, HOISTING

- COMPETENT AND QUALIFIED SUPERINTENDENCE AND ALL OTHER SERVICES, OTHER INCIDENTALS, ASSURANCES AND GUARANTEES, ASSUMPTIONS OF RISK AND RESPONSIBILITY FOR THE COMPLETE PROJECT AND AND PERFORMANCE OF THE WORK AS SET FORTH IN THE CONTRACT c. CONTRACTOR - ADDITIONALLY REFERENCED AS GENERAL CONTRACTOR I. THE PERSON, ENTITY OR AUTHORIZED REPRESENTATIVE, SINGULAR OR PLURAL, IDENTIFIED IN
- CONTRACT DOCUMENTS AS BEING SOLELY RESPONSIBLE FOR THE PERFORMANCE OF THE WORK SHOWN AND SPECIFIED ON THIS PROJECT. SHALL SUPERVISE AND DIRECT THE WORK ON THE PROJECT.

3. SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, CONSTRUCTION MEANS,

4. SHALL BE RESPONSIBLE FOR ACTS AND OMISSIONS OF THEIR EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES AND ANY OTHER PERSONS OR ENTITIES PERFORMING WORK ON THIS PROJECT.

METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES FOR THE WORK ON THE PROJECT.

- 5. SHALL BE RESPONSIBLE FOR INSPECTING ALL EXISTING CONDITIONS AND ALL COMPLETED WORK FOR ACCEPTANCE TO RECEIVE SUBSEQUENT WORK. d. SUBCONTRACTOR I. THE PERSON, ENTITY OR AUTHORIZED REPRESENTATIVE, SINGULAR OR PLURAL, HOLDING A
- DIRECT CONTRACT WITH THE CONTRACTOR TO PERFORM A PORTION OF THE WORK ON THE 2. INCLUDES SUPPLIERS WHO PROVIDE MATERIAL AND EQUIPMENT TO THE CONTRACTOR,
- SUBCONTRACTORS AND/OR SUB-SUBCONTRACTORS. e. SUB-SUBCONTRACTOR I. THE PERSON, ENTITY OR AUTHORIZED REPRESENTATIVE, SINGULAR OR PLURAL, HOLDING A DIRECT OR INDIRECT CONTRACT WITH A SUBCONTRACTOR TO PERFORM A PORTION OF THE
- WORK ON THE PROJECT. 0129. NOT USED. OI3O. THE WORDS "PROVIDE", "FURNISH", "INSTALL", "PERFORM", "SUPPLY", OR ANY COMBINATION OR SIMILAR DIRECTIVE OR USAGE IN THE CONTRACT DOCUMENTS IS DEFINED AS FURNISHING ANY AND ALL MATERIAL, COMPETENT AND QUALIFIED LABOR, PERMITS, INSURANCES, HOISTING, FEES, BONDS, EQUIPMENT, TAXES, TOOLS, LICENSES, INSPECTIONS, COMPETENT AND QUALIFIED SUPERINTENDENCE, STORAGE, WARRANTIES AND ALL SERVICES, INCIDENTALS, ASSURANCES AND GUARANTEES, ASSUMPTION OF RISK AND RESPONSIBILITY FOR THE COMPLETE PRODUCT AND PERFORMANCE OF
- JURISDICTION. THE DRAWINGS AND THESE GENERAL NOTES ARE ESSENTIAL PARTS OF THE CONTRACT DOCUMENTS. A REQUIREMENT INDICATED IN ONE IS BINDING AS THOUGH INDICATED IN ALL . THEY ARE INTENDED TO BE COOPERATIVE AND TO DESCRIBE AND PROVIDE FOR THE COMPLETE WORK. a. SHOULD ANY OF THE DETAILED INSTRUCTION SHOWN ON THE DRAWINGS CONFLICT WITH THE

THE WORK AS SET FORTH IN THE CONTRACT DOCUMENTS AND ANY OTHER ENTITIES HAVING

GENERAL NOTES, REVIEWED SUBMITTALS OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL b. ANY ITEM SPECIFIED AND NOT SHOWN ON THE DRAWINGS OR SHOWN ON THE DRAWINGS AND NOT SPECIFIED SHALL BE PROVIDED.

c. COMPLY WITH REFERENCED STANDARD SPECIFICATIONS, ASSOCIATION AND TRADE STANDARDS,

EXCEPT WHEN MORE RIGID REQUIREMENTS ARE SPECIFIED OR REQUIRED BY APPLICABLE CODES THE ORGANIZATION OF THE GENERAL NOTES INTO DIVISIONS, SECTIONS, PARTS AND PARAGRAPHS, AND THE ARRANGEMENT OF THE DRAWINGS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE. DURING THE BIDDING PERIOD, THE CONTRACTOR SHALL STUDY AND COMPARE THE CONTRACT DOCUMENTS AND IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING (EMAIL IS ACCEPTABLE) OF ANY ERROR, INCONSISTENCY OR OMISSION THAT IS DISCOVERED. THE CONTRACTOR SHALL BE LIABLE TO THE OWNER RESULTING FROM ANY SUCH UNREPORTED ERRORS, INCONSISTENCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS.

- 0133. THE INTENT OF THE DRAWINGS AND GENERAL NOTES IS TO DESCRIBE THE DETAILS FOR THE CONSTRUCTION AND COMPLETION OF THE WORK THAT IS UNDERTAKEN IN ACCORDANCE WITH THE TERMS OF THE CONTRACT DOCUMENTS. WHERE THE DRAWINGS AND GENERAL NOTES DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS, BUT NOT COMPLETE IN DETAIL, IT IS UNDERSTOOD THAT ONLY COMMONLY ACCEPTED INDUSTRY PRACTICE IS TO PREVAIL
- 0134. REFERENCES TO CODES, STANDARDS, MANUALS, ETC. IN THESE GENERAL NOTES SHALL MEAN THE CURRENT EDITION IN EFFECT.
- 0135. THE OWNER SHALL HIRE AND PAY THE COST OF A THIRD-PARTY SPECIAL INSPECTION AGENCY. THE CONTRACTOR SHALL COORDINATE WITNESSING AND TESTING WITH THE AGENCY, AND SHALL COMPILE ALL AGENCY TESTING REPORTS AND SUBMIT THEM TO THE ARCHITECT.
- 0136. INSTALLATION OF ALL MATERIAL IS TO BE IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS.
- 0137. MATERIALS SHALL BE NEW AND SHALL BE ADEQUATE IN CAPACITY FOR THE REQUIRED USE, SHALL NOT CREATE UNSAFE CONDITIONS AND SHALL NOT VIOLATE REQUIREMENTS OF APPLICABLE CODES

_0/38. THE FOLLOWING SHALL BE FURNISHED AND MAINTAINED AT THE PROJECT SITE FOR THE DURATION OF THE WORK AND UNTIL FINAL ACCEPTANCE:

- a. COPY OF THE LATEST EDITIONS OF THE OHIO BUILDING CODE, NATIONAL ELECTRIC CODE AND APPLICABLE MECHANICAL CODES. b. REFERENCE MANUALS AND MATERIALS INDICATED THROUGHOUT THE DRAWINGS AND TECHNICAL
- SPECIFICATIONS. c. THE CONTRACTOR'S SAFETY MANUAL, HAZARDOUS MATERIALS PLAN, CURRENT MSDS OF ALL
- MATERIAL BEING INSTALLED
- d. THE CONTRACTOR'S DISASTER PREPAREDNESS PLAN. e. OSHA STANDARDS APPLICABLE TO THIS PROJECT.
- F. BUILDING PERMIT PROMINENTLY DISPLAYED AS REQUIRED BY THE LOCAL JURISDICTION. q. THE APPROVED DRAWINGS AND CERTIFICATE OF PLAN APPROVAL ISSUED BY THE AUTHORITY
- HAVING JURISDICTION. h. ONE SET OF DRAWINGS MARKED IN LARGE, BOLD LETTERING "PROJECT RECORD". REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS. AS-BUILT INFORMATION IS NOT TO BE MARKED ON THE DOCUMENTS APPROVED BY THE BUILDING DEPARTMENT. STORE ORIGINAL SET OF APPROVED
- DOCUMENTS SEPARATE FROM DOCUMENTS USED FOR CONSTRUCTION. . COPY OF ALL REVIEWED SUBMITTALS ORGANIZED BY DIVISION IN A BINDER OR OTHER READILY ACCESSIBLE STORAGE.
- INSPECTION CERTIFICATIONS. K. COPY OF FIELD AND LABORATORY TEST RESULTS FOR CONCRETE, SOILS, WELDING, INJECTION
- . ANY OTHER DOCUMENTS REQUIRED BY FEDERAL, STATE, COUNTY AND LOCAL JURISDICTIONS. 0139. IN ADDITION TO THE OTHER REQUIREMENTS INDICATED IN THE GENERAL NOTES, THE CONTRACTOR
- a. COMPLETE THE WORK IN COMPLIANCE WITH THE CONSTRUCTION SCHEDULE INCLUDED IN THE CONTRACT DOCUMENTS: b. PROCEED WITH THE WORK EXPEDITIOUSLY AND CONTINUOUSLY WITHOUT CESSATION OR SHUTDOWN
- UNLESS OTHERWISE SPECIFICALLY APPROVED IN WRITING BY THE OWNER; c. BE RESPONSIBLE FOR COORDINATING AND SCHEDULING EVERY ASPECT OF THE WORK; d. COORDINATE WITH ALL AFFECTED SUBCONTRACTORS ANY UTILITY DISRUPTION THAT WILL AFFECT
- e. BE RESPONSIBLE FOR MAINTAINING JOB CLEANLINESS AND MATERIAL ORGANIZATION FOR THE DURATION OF THE PROJECT. PERFORM DAILY, MORE OFTEN IF NECESSARY. PICK UP AND LEGALLY DISPOSE OF ALL SCRAP, DEBRIS AND WASTE MATERIALS. ORGANIZE STORED MATERIAL IN SUCH A MANNER TO PREVENT DAMAGE, SOILING, ROT, AIRBORNE DURING WINDY CONDITIONS, THEFT, VANDALISM, ETC;
- F. BE RESPONSIBLE FOR ENSURING THAT ALL WORK IS PROPERLY FABRICATED AND INSTALLED, IS PROPERLY FRAMED, CLOSELY FITTED, ACCURATELY SET TO REQUIRED LINES AND LEVELS AND q. WORKING WITH THE OWNER'S SECURITY REQUIREMENTS, BE RESPONSIBLE FOR SECURING THE WORK AREA AND PROJECT SITE FROM THE PUBLIC AND UNAUTHORIZED PERSONS DURING AND AFTER
- WORKING HOURS. THIS INCLUDES FURNISHING, ERECTING AND MAINTAINING ALL SECURITY LIGHTING, SIGNAGE, FENCES, BARRICADES OR ANY OTHER SAFETY OR SECURITY DEVICES NECESSARY TO PREVENT UNAUTHORIZED ACCESS TO THE PROJECT SITE; h. BE RESPONSIBLE FOR ENSURING COMPLIANCE WITH ALL FEDERAL, STATE, COUNTY, LOCAL AND THE OWNER'S SAFETY REQUIREMENTS AND STANDARDS. INCLUDES INITIATING, MAINTAINING AND
- SUPERVISING ALL SAFETY REQUIREMENTS, PRECAUTIONS, RECORDS AND PROGRAMS IN CONNECTION WITH THE WORK;
- ENFORCE AND MONITOR UTILITY LOCK-OUT/TAG-OUT PROCEDURES IN COMPLIANCE WITH APPLICABLE CODES AND STANDARDS. PROVIDE AND PROMINENTLY DISPLAY ALL APPLICABLE LABOR AND SAFETY POSTINGS IN
- COMPLIANCE WITH FEDERAL, STATE, COUNTY AND LOCAL LAWS AND REGULATIONS. k. ASSUME FULL RESPONSIBILITY FOR PROTECTION OF MATERIALS AND EQUIPMENT STORED AT THE BE RESPONSIBLE FOR MAINTAINING JOB CLEANLINESS AND MATERIAL ORGANIZATION FOR THE DURATION OF THE PROJECT. PERFORM DAILY, MORE OFTEN IF NECESSARY. PICK UP AND LEGALLY DISPOSE OF ALL SCRAP, DEBRIS AND WASTE MATERIALS. ORGANIZE STORED

CONDITIONS, THEFT, ETC.

PROGRESS ON THE PROJECT.

0140. TEMPORARY FACILITIES AND CONTROLS a. PROVIDE EACH TEMPORARY FACILITY AND CONTROL AS REQUIRED FOR THE PERFORMANCE OF THE WORK AND FOR THE DURATION OF THE PROJECT. REMOVE WHEN NO LONGER NEEDED. b. ANY SUBCONTRACTOR REQUIRING ANY TEMPORARY ELEMENT(S) BEFORE IT CAN BE PROVIDED, OR WHOSE REQUIREMENTS WITH RESPECT TO A PARTICULAR SERVICE DIFFER FROM THE SERVICE

MATERIAL IN SUCH A MANNER TO PREVENT DAMAGE, SOILING, ROT, AIRBORNE DURING WINDY

- SPECIFIED, SHALL PROVIDE SUCH SERVICE AS IT SUITS THEIR NEEDS, AT THEIR EXPENSE AND IN A MANNER ACCEPTABLE TO THE CONTRACTOR AND THE OWNER. c. PROVIDE AND MAINTAIN TEMPORARY ELEMENTS IN GOOD SAFE OPERATING CONDITION. AS REQUIRED, PROVIDE TRAINED PERSONNEL TO MONITOR AND PERFORM MAINTENANCE AND REPAIR
- ON TEMPORARY FACILITIES AND CONTROLS FOR THE DURATION OF THE PROJECT. d. THIS GENERAL NOTES SECTION IS NOT INTENDED TO LIMIT THE TYPES AND AMOUNTS OF TEMPORARY FACILITIES AND CONTROLS REQUIRED. OMISSIONS FROM THIS SECTION WILL NOT BE
- CONSTRUED AS AN INDICATION THAT SUCH TEMPORARY ELEMENT(S) IS/ARE NOT REQUIRED. e. SHALL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL LAWS, REGULATIONS, CODES AND UTILITY PROVIDER REQUIREMENTS. f. OBTAIN AND PAY ALL FEES, PERMITS AND INSPECTIONS REQUIRED.
- q. PROVIDE IN A MANNER AND AT LOCATIONS WHICH DO NOT INTERFERE WITH PERMANENT CONSTRUCTION AND OWNER'S OPERATIONS, ARE SAFE, NON-HAZARDOUS, SANITARY AND ADEQUATELY PROTECT THE WORK, WORKERS, OWNER'S EMPLOYEES AND THE PUBLIC. h. PROTECT AGAINST DAMAGE FOR THE DURATION OF THE PROJECT. PROVIDE TEMPORARY TOILET FACILITIES IN THE QUANTITY REQUIRED TO ADEQUATELY SERVICE
- THESE FACILITIES SHALL BE PAID BY THE CONTRACTOR. SECURE AGAINST TIPPING DURING WINDY CONDITIONS. TEMPORARY DUST CONTROL AT VENTILATION ELEMENTS

- HVAC EQUIPMENT TO PREVENT THE MIGRATION AND COLLECTION OF CONSTRUCTION DUST AND DEBRIS IN DUCTWORK, COILS, ETC. 2. SECURELY FASTEN FULL-SIZE TEMPORARY FILTER MEDIA OVER ALL RETURN AIR DUCTING LOCATED IN THE WORK AREA. CHANGE OR CLEAN FILTER MEDIA PERIODICALLY AS REQUIRED.
- 3. SEAL ALL SUPPLY AIR DUCTING LOCATED IN THE WORK AREA AGAINST INTRUSION OF **k. Provide temporary ventilation** as required to maintain adequate tempered and VENTILATED CONDITIONS IN THE WORK AREA FOR THE DURATION OF THE PROJECT OR UNTIL PERMANENT SYSTEMS ARE PUT IN SERVICE OR RESTARTED. REFERENCE DIVISION 07 OF THE
- GENERAL NOTES FOR SPRAY-APPLIED FIREPROOFING VENTILATION REQUIREMENTS. PROVIDE TEMPORARY WASTE RECEPTACLES AND REFUSE DUMPSTER'S. ALL COSTS ASSOCIATED WITH DEBRIS REMOVAL AND DISPOSAL SHALL BE PAID BY THE CONTRACTOR. m. **PROVIDE AND MAINTAIN ALL EROSION CONTROL MEASURES** AS REQUIRED TO KEEP CONTAMINATED WATER FROM ENTERING STORM CONVEYANCES OR WATERWAYS.
- ADEQUATE COMMERCIAL CONSTRUCTION GRADE LADDERS, LIFTS AND SCAFFOLDS AS REQUIRED FOR THE WORK. o. IN COMPLIANCE WITH APPLICABLE OSHA STANDARDS, PROVIDE, USE AND MAINTAIN ADEQUATE

n. IN COMPLIANCE WITH APPLICABLE OSHA STANDARDS, PROVIDE, ERECT, USE AND MAINTAIN

PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED FOR THE WORK. p. **Provide, Erect, Maintain and Remove Adequate Temporary Shoring** and Bracing as REQUIRED FOR WORKER SAFETY AND PROPER EXECUTION OF THE WORK. q. COORDINATE THE LOCATION(S) OF MATERIAL AND EQUIPMENT STAGING WITH THE OWNER. ON THE

EXTERIOR, MAINTAIN AREA(S) FREE OF TRASH, WEEDS AND OTHER UNSIGHTLY CONDITIONS.

- RETURN STAGING AREA TO ITS ORIGINAL CONDITION, OR BETTER, AT THE COMPLETION OF THE r. FOR THE PROTECTION OF THE PUBLIC AND WORKERS, PROVIDE AND MAINTAIN WARNING LIGHTS, BARRICADES, SIGNAGE, CAUTION TAPE AND OTHER SIMILAR ELEMENTS IN, AROUND AND ADJACENT TO WORK AREAS STAGING AREAS AND EQUIPMENT.
- TO PREVENT THE UNSAFE ACCUMULATION OF EXHAUST IN THE BUILDING, ALL POWERED EQUIPMENT, (SAW-CUTTING MACHINERY, WELDERS, LIFTS, ETC.), SHALL BE ELECTRICAL OR PROPANE POWERED OR BE OUTFITTED WITH AN APPROVED EXHAUST SCRUBBER. COORDINATE SPECIAL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR.

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TIDI 426 EAST MAIN STREET

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SHALL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL LAWS, REGULATIONS, CODES AND UTILITY PROVIDER REQUIREMENTS.	L-2130		
OBTAIN AND PAY ALL FEES, PERMITS AND INSPECTIONS REQUIRED. PROVIDE IN A MANNER AND AT LOCATIONS WHICH DO NOT INTERFERE WITH PERMANENT	ISSUE	MARK	DATE
CONSTRUCTION AND OWNER'S OPERATIONS, ARE SAFE, NON-HAZARDOUS, SANITARY AND		WARK	
ADEQUATELY PROTECT THE WORK, WORKERS, OWNER'S EMPLOYEES AND THE PUBLIC.	BID	++	5-5-22
PROTECT AGAINST DAMAGE FOR THE DURATION OF THE PROJECT.		++	
PROVIDE TEMPORARY TOILET FACILITIES IN THE QUANTITY REQUIRED TO ADEQUATELY SERVICE		+	
THE NUMBER OF WORKERS ON THE PROJECT. MAINTAIN IN CLEAN, SANITARY CONDITION. COSTS OF			
THESE FACILITIES SHALL BE PAID BY THE CONTRACTOR. SECURE AGAINST TIPPING DURING WINDY			
CONDITIONS.			
TEMPORARY DUST CONTROL AT VENTILATION ELEMENTS		\top	
I. PROVIDE, MAINTAIN AND REMOVE DURABLE, TEMPORARY PROTECTION OF EXISTING AND NEW		+ +	
HYAC EQUIPMENT TO PREVENT THE MIGRATION AND COLLECTION OF CONSTRUCTION DUST AND		++	
DEBRIS IN DUCTWORK, COILS, ETC.			
2. SECURELY FASTEN FULL-SIZE TEMPORARY FILTER MEDIA OVER ALL RETURN AIR DUCTING			
LOCATED IN THE WORK AREA. CHANGE OR CLEAN FILTER MEDIA PERIODICALLY AS REQUIRED.			
3. SEAL ALL SUPPLY AIR DUCTING LOCATED IN THE WORK AREA AGAINST INTRUSION OF		+	
CONSTRUCTION DERRIS		1	

DRAWN BY: NJP, SML STEPHEN

Stephen M. Luchtenber

License No. 8546

Expiration Date: December 31, 2023

GENERAL NOTES

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DIVISION Ø

b. Provide adequate temporary exterior lighting as required to maintain security of c. ALL WORK SHALL BE IN COMPLIANCE WITH NEPA TO THE NATIONAL ELECTRIC CODE, OSHA AND

UTILITY PROVIDER'S REQUIREMENTS d. AS REQUIRED, PROVIDE PORTABLE ELECTRICAL POWER PLANTS OF ADEQUATE CAPACITY TO MEET THE NEEDS OF THE WORK. INCLUDES SPECIALIZED EQUIPMENT SUCH AS CONCRETE CUTTERS,

e. Remove all temporary electrical equipment when permanent systems are available FOR USE. NO TEMPORARY SYSTEM SHALL FORM A PART OF THE PERMANENT SYSTEM. f. IN AREAS WHERE NATURAL LIGHTING IS NOT ADEQUATE, PROVIDE MINIMUM FOOT-CANDLES REQUIRED PER OSHA STANDARDS.

q. LOCATE CIRCUITS ALONG SAFE AND PROTECTED-AGAINST-DAMAGE ROUTES AND LEAST OBJECTIONABLE TO THE WORK.

h. PROVIDE LAMP REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLIANCE AND PROPER USE OF ALL

TEMPORARY LIGHT AND POWER SYSTEMS UNTIL REMOVED THE COST OF INSTALLING, MAINTAINING, SUPERVISING, OPERATING AND REMOVAL SHALL BE PAID

BY THE CONTRACTOR. - I. THE COST OF CURRENT CONCUMED WILL BE PAID BY THE OWNER. k. UNLESS OTHERWISE SPECIFIED, LOCATE ELECTRICAL RECEPTACLES A MAXIMUM 25 FEET APART

AND EQUALLY DISTRIBUTED THROUGHOUT THE WORK AREA. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND COMPLIANCE

OF ALL TEMPORARY LIGHTING AND POWER UNTIL REMOVED. m. CONTRACTOR MAY USE EXISTING LIGHTING AND POWER IN THE CENTER AND WEST PODS OF BUILDING #1 AT NO COST TO THE CONTRACTOR.

0142. **PROVIDE AND MAINTAIN FIRE PROTECTION SERVICES AND EQUIPMENT** AS APPROVED BY THE LOCAL FIRE PREVENTION AUTHORITY. KEEP COMBUSTIBLES AWAY FROM THE BUILDING AS FAR AS PRACTICAL AND DESIGNATE ONE RESPONSIBLE INDIVIDUAL WHOSE DUTY SHALL BE TO PATROL AND 0153. **TEMPORARY FENCING** SUPERVISE FIRE PREVENTION REQUIREMENTS FOR THE DURATION OF THE PROJECT. a. THIS SHALL BE DONE WITH TOOLS AND METHODS TO PREVENT DAMAGE TO ADJACENT FINISHES,

b. PROVIDE AND MAINTAIN PROPERLY TAGGED FIRE EXTINGUISHERS (U.L. 4A-80BC) IN THE QUANTITY AND LOCATIONS REQUIRED TO PROVIDE ADEQUATE COVERAGE FOR USE IN THE EVENT OF FIRE.

0143. PROVIDE TEMPORARY EXISTING HEAT AND VENTILATION SYSTEMS MAY BE USED BY THE CONTRACTOR AS REQUIRED TO MAINTAIN ADEQUATE ENVIRONMENTAL CONDITIONS TO MEET SPECIFIED MINIMUM CONDITIONS FOR INSTALLATION OF MATERIALS; AND TO PROTECT EQUIPMENT, MATERIALS, AND FINISHES FROM DAMAGE DUE TO TEMPERATURE OR HUMIDITY

a. PROVIDE ADEQUATE FORCED VENTILATION OF ENCLOSED AREAS TO CURE INSTALLED MATERIALS, TO PREVENT EXCESSIVE HUMIDITY, AND TO PREVENT HAZARDOUS ACCUMULATIONS OF DUST, FUMES, VAPORS, OR GASES. I. THE COST OF FUEL CONSUMED TO PAID BY THE CONTRACTOR.

b. PERMANENT HVAC SYSTEM: IF THE OWNER AUTHORIZES USE OF PERMANENT HVAC SYSTEM FOR TEMPORARY USE DURING CONSTRUCTION, CONTRACTOR TO PROVIDE FILTER WITH MINIMUM EFFICIENCY RATING VALUE (MERV) 13 AT EACH EXHAUST OR RETURN AIR GRILLE IN SYSTEM AND REMOVE AT END OF CONSTRUCTION. c. THE COST OF FUEL CONSUMED FOR HVAC SHALL BE PAID BY OWNER.

0144. MOBILE PHONE AND EMAIL ON-SITE

 THE CONTRACTOR SHALL MAKE AND PAY FOR ANY PROVISIONS AS REQUIRED TO HAVE MOBILE PHONE AND INTERNET SERVICE ON SITE AT ALL TIMES FOR EFFECTIVE COMMUNICATION BETWEEN THE OWNER AND/OR ARCHITECT AND THE CONTRACTOR.

I. THE CONTRACTOR SHALL HAVE A COMPUTER WITH INTERNET CONNECTIVITY AND A PRINTER IN THE CONTRACTOR'S ON-SITE OFFICE FOR THE DURATION OF THE PROJECT.

0145. TEMPORARY POTABLE WATER

a. PROVIDE DURABLE TEMPORARY PIPING AND HOSES AS REQUIRED TO CONVEY WATER FROM CONTRACTOR'S TEMPORARY WATER SOURCE. COORDINATE LOCATION WITH THE SUBCONTRACTOR(S) REQUIRING THE WATER.

b. PROVIDE ADEQUATE DRAINAGE AND OTHER PROVISIONS NECESSARY TO PREVENT THE COLLECTION OF STANDING WATER AND MUD AT THE SITE OF THE TEMPORARY WATER AND THE SEEPAGE OF CONTAMINATED WATER FROM ENTERING STORM CONVEYANCES AND WATERWAYS

d. SECURE CONTROLS AGAINST UNAUTHORIZED USE AND VANDALISM DURING NONWORKING HOURS. e. THE COST OF INSTALLING, MAINTAINING, SUPERVISING, OPERATING AND REMOVAL SHALL BE PAID BY THE CONTRACTOR, THE COST OF WATER CONSUMED WILL BE PAID BY THE OWNER.

RETURN THE AREA TO ITS ORIGINAL CONDITION, OR BETTER, AT THE COMPLETION OF THE PROJECT. . CONTRACTOR MAY USE POTABLE WATER OBTAINED AT EXISTING HOSE BIBB ON SITE AT CENTER

OR WEST POD. CONTRACTOR MAY NOT USE POTABLE WATER OBTAINED AT EXISTING BUILDING #I OR AT EXISTING EAST POD OF BUILDING #2. OWNER SHALL PAY FOR THE USE THEREOF. 0146. PORTABLE FIELD OFFICE SHALL BE PROVIDED BY THE CONTRACTOR, ADEQUATELY SIZED TO

Provide a work area for the project superintendent, a plan table, adequate storage FOR CONSTRUCTION DOCUMENTS, A SEPARATE CONFERENCE AREA WITH TABLE AND CHAIRS TO ACCOMMODATE TWELVE PEOPLE AND, AT CONTRACTOR'S OPTION, STORAGE FOR SMALL TOOLS, HARDWARE, ETC.

a. WITH HEATING AND GOOLING SYSTEMS.

b. COORDINATE LOCATION, UTILITY NEEDS AND OTHER SPECIFIC REQUIREMENTS WITH THE OWNER AND THE LOCAL JURISDICTION HAVING AUTHORITY.

c. PROVIDE STEPS WITH RAILING AND LANDING OR ACCESSIBLE RAMP CONSTRUCTED IN ACCORDANCE WITH ICC/ANSI AIIT.I.

d. MAINTAIN AREA FREE OF TRASH, WEEDS, AND OTHER UNSIGHTLY CONDITIONS. e. PROVIDE SIGNAGE.

0147. FIELD OFFICE, BUILDING INTERIOR

a. UTILIZE AN EXISTING SPACE IN THE BUILDING THAT WILL NOT DISRUPT CONSTRUCTION OPERATIONS. PROVIDE AN ADEQUATELY SIZED WORK AREA FOR THE PROJECT SUPERINTENDENT, A PLAN TABLE, ADEQUATE STORAGE FOR CONSTRUCTION DOCUMENTS AND A SEPARATE CONFERENCE AREA WITH TABLE AND CHAIRS TO ACCOMMODATE AT LEAST TEN PEOPLE. b. UTILIZE EXISTING OR PROVIDE HEATING AND COOLING SYSTEMS FOR TEMPORARY SERVICES.

c. COORDINATE LOCATION AND OTHER SPECIFIC REQUIREMENTS WITH THE OWNER. d. PROVIDE SIGNAGE.

e. RETURN THE SPACE TO ITS ORIGINAL CONDITION OR BETTER UPON COMPLETION OF THE PROJECT.

0148. TEMPORARY EQUIPMENT AND TOOL STORAGE FACILITIES. PROVIDED AT THE DISCRETION OF THE OWNER AND BY THE CONTRACTOR. a. PROVIDE ADEQUATELY SIZED, WEATHERTIGHT, LOCKABLE STORAGE CONTAINER(S) IN THE

QUANTITY REQUIRED b. COORDINATE STAGING LOCATION(S) WITH THE OWNER

c. IN ORDER TO MINIMIZE STORAGE AREAS AND PERIOD OF STORAGE AT PROJECT SITE, SCHEDULE AND COORDINATE ALL MATERIAL DELIVERIES WITH THE CONTRACTOR.

d. MAINTAIN AREAS FREE OF TRASH, WEEDS, AND OTHER UNSIGHTLY CONDITIONS

e. RETURN THE STAGING AREA TO ITS ORIGINAL CONDITION OR BETTER UPON COMPLETION OF THE

0149. TEMPORARY SANITARY FACILITIES

 a. GONTRACTOR SHALL PROVIDE AT THE PROJECT SITE, PORTABLE CHEMICAL TOILETS. TYPE; - AND MAINTENANCE OF TEMPORARY TOILETS ARE THE RESPONSIBILITY OF THE CONTRACTOR. - OBTAIN OWNER'S APPROVAL OF LOCATION PRIOR TO INSTALLATION.

b. After New Toilet Facilities are installed in the BLDG, the Architect shall designate — TWO BATHROOMS FOR CONTRACTOR'S USE. MAINTAIN DAILY IN CLEAN AND SANITARY CONDITION. — AT NO ADDITIONAL COST TO THE CONTRACT, THE CONTRACTOR WILL REPLACE OR REPAIR ANY - NEWLY INSTALLED ITEMS IN THESE BATHROOMS IF DAMAGED BY CONTRACTOR'S FORCES.

c. THE OWNER SHALL DESIGNATE ONE EXISTING BATHROOM IN EITHER THE WEST OR CENTER POD OF BUILDING #2 FOR USE BY THE CONTRACTOR AT NO COST TO THE CONTRACTOR.

0150. CONSTRUCTION PROGRESS MEETINGS

THROUGHOUT THE PROJECT WHEN INDICATED IN THE INVITATION TO BID. REQUIRED ATTENDANCE a. THE CONTRACTOR SHALL ADMINISTER REGULARLY SCHEDULED PROGRESS MEETINGS AT THESE MEETINGS INCLUDE THE CONTRACTOR'S PROJECT MANAGER AND PROJECT SUPERINTENDENT, SUPERINTENDENTS OF ALL SUBCONTRACTORS WHOSE FORCES ARE CURRENTLY 0163. FINAL SITE CLEANING ON SITE OR ARE SCHEDULED TO BE ON SITE BEFORE THE NEXT PROGRESS MEETING, THE OWNER'S REP AND THE ARCHITECT.

b. THE CONTRACTOR SHALL CHAIR THE MEETINGS, SHALL KEEP MEETING MINUTES AND SHALL EMAIL MINUTES TO ALL ATTENDEES WITHIN 48 HOURS OF THE MEETING.

c. AT LEAST 48 HOURS PRIOR TO ALL PROGRESS MEETINGS, THE CONTRACTOR SHALL EMAIL A LISTING OF ALL PROGRESS ON THE PROJECT SINCE THE PREVIOUS MEETING, ALONG WITH THE PROPOSED MEETING AGENDA TO ALL MEETING ATTENDEES FOR REVIEW. d. TYPICAL MEETING AGENDAS SHALL INCLUDE, BUT NOT BE LIMITED TO, REVIEW OF

I. NEW WORK ACCOMPLISHED SINCE THE PREVIOUS MEETING,

2. NEW CONCERNS SINCE THE PREVIOUS MEETING, 3. ISSUES PREVIOUSLY DISCUSSED BUT NOT YET RESOLVED,

4. PROPOSED WORK FOR THE NEXT TWO WEEKS, 5. THE UPDATED PROJECT SCHEDULE,

6. PENDING CHANGE ORDERS AND/OR BULLETINS. 7. SUBMITTAL ISSUES AND STATUS,

FOLLOWING THE MEETING.

9. ALL OTHER BUSINESS RELATING TO THE WORK. e. THE ARCHITECT AND OWNER WILL REVIEW CONSTRUCTION WORK BEING DONE ON THE PROJECT

0151. SITE ACCESS AND PARKING

a. THE CONTRACTOR SHALL UTILIZE THE EXISTING ENTRY APRON AND ASPHALT PARKING LOT NOTED ON THE SITE SURVEY DRAWING IN THE CONSTRUCTION DOCUMENTS FOR ACCESS TO AND FROM THE PROJECT SITE. NO OTHER ACCESS POINT IS TO BE UTILIZED. CONTRACTOR SHALL CLEAN THE PARKING LOT AND ENTRY APRON PERIODICALLY DURING CONSTRUCTION TO ELIMINATE MUD TRACKING FROM THE SITE OUT ONTO THE ADJACENT PUBLIC ROADWAYS.

MATERIALS AND DEBRIS SHALL UTILIZE THIS SITE ACCESS DRIVE EXCLUSIVELY. 2. THE EXISTING ALLEYS AT THE EAST AND WEST SIDES OF THE PROPERTY SHALL NOT BE DRIVEN ON BY THE CONTRACTOR OR SUBCONTRACTORS OR DELIVERY VEHICLES OR EMPLOYEES UNLESS

I. WORKERS, CONSTRUCTION TRAFFIC, EQUIPMENT, MATERIAL DELIVERIES AND REMOVAL OF

WORK IS BEING DONE IN THE LAWN AREA DIRECTLY ADJACENT TO THE ALLEY. 3. AT THE COMPLETION OF THE PROJECT, CONTRACTOR SHALL RESTORE, TO ORIGINAL OR BETTER CONDITION, THE ENTRY APRON, ALL PAVED AND LAWN AREAS USED FOR TEMPORARY ACCESS, WORKER PARKING, STAGING, STORAGE, JOBSITE TRAILER, TEMPORARY WATER AND TEMPORARY

OI65. FINAL CLEANING - BUILDING INTERIOR

ELECTRICAL ELEMENTS. 4. MAINTAIN PRIVATE AND ADJACENT PUBLIC ROADWAYS, PRIVATE AND PUBLIC ALLEYS AND PARKING AREAS UTILIZED FOR CONSTRUCTION TRAFFIG CLEAR, CLEAN AND FREE OF MUD AND DEBRIS ON A DAILY BASIS. AT THE COMPLETION OF THE PROJECT, REPAIR AREAS OF PUBLIC ROADWAYS AND ALLEYS THAT WERE DAMAGED BY CONSTRUCTION; RESTORE TO ORIGINAL OR

BETTER CONDITION THAT IS SATISFACTORY TO THE JURISDICTION HAVING AUTHORITY. 5. ON-SITE CONSTRUCTION-RELATED PARKING SHALL BE RESTRICTED TO THE PAVED AREA WITHIN THE CONTRACTOR'S SITE ACCESS LIMIT LINE ON THE SITE SURVEY. ERECT AND MAINTAIN TEMPORARY SIGNAGE AS NECESSARY TO CONTROL ROUTES OF CONSTRUCTION TRAFFIC AND DELIVERY OF MATERIALS AND EQUIPMENT TO THE PROJECT SITE.

6. ON STATE ROUTE 37, PROVIDE AND MAINTAIN FROM EACH DIRECTION, ODOT SPECIFICATION SIGNAGE "CONSTRUCTION ENTRANCE AHEAD" AND IF APPLICABLE "TRUCKS ENTERING AND

0152. THE GENERAL CONTRACTOR'S SUPERINTENDENT SHALL BE ON SITE AT ALL TIMES WHILE ANY WORK IS BEING DONE, WHETHER INTERIOR OR EXTERIOR WORK, REGARDLESS OF WHO'S FORCES ARE DOING

CONTRACTOR SHALL ERECT AND MAINTAIN IN GOOD CONDITION AN EIGHT-FOOT HIGH COMMERCIAL GRADE, SELF-SUPPORTING CHAIN LINK FENCE OF STANDARD CONSTRUCTION SURROUNDING THE PROJECT SITE AND ENCLOSING THE AREA OF WORK AND

MATERIALS STAGING 2. THE PATH OF THE FENCE SHALL BE APPROVED BY THE OWNER AND ARCHITECT PRIOR TO ERECTION. PROVIDE LOCKABLE 16' WIDE FENCE GATE AT THE CONSTRUCTION ACCESS DRIVE AND 8' WIDE LOCKABLE GATES ELSEWHERE AT THE CONTRACTOR'S DISCRETION. 2.1. GATES SHALL REMAIN LOCKED WHEN UNATTENDED TO DISCOURAGE ACCESS BY

3. THE FENCE MAY BE GROUND-SET OR SHALL BE TEE-SUPPORTED, AND MUST REMAIN STABLE IN HIGH OR GUSTY WIND CONDITIONS AND SCALING BY PEDESTRIANS. THE CONTRACTOR SHALL COORDINATE ALL FENCE POLE LOCATIONS THAT ARE TO BE POUNDED INTO THE GROUND WITH OWNER'S LANDSCAPE AND OUTDOOR SERVICES AND BLUESTAKE TO AVOID SHALLOW UTILITIES

4. THE CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS REQUIRED TO RETURN TO AREA TO ORIGINAL CONDITION AFTER FENCING IS REMOVED, INCLUDING, BUT NOT LIMITED TO, SOD, ASPHALT AND CONCRETE REPAIR, POST HOLES IN ASPHALT WILL BE REPAIRED USING FAST-PATCH DPR POURABLE ASPHALT REPAIR. USING A HOT OR COLD PATCH FOR THE POST

HOLES IS NOT ALLOWED. 5. THE OWNER SHALL BE GIVEN A KEY(S) TO THE GATE LOCK BY THE CONTRACTOR FOR EMERGENCY ACCESS.

6. FENCING SHALL BE PLACED IMMEDIATELY AFTER OR DURING SITE PREPARATION, AND REMAIN IN PLACE FOR THE ENTIRE DURATION OF CONSTRUCTION.

6.I. THE CONTRACTOR IS TO MAINTAIN THE FENCE IN A NEAT AND ORDERLY APPEARANCE.

a. PROVIDE AND MAINTAIN ALL SAFETY SIGNAGE, IN ACCORDANCE WITH APPLICABLE OSHA STANDARDS, REQUIRED FOR THE PROTECTION OF THE PUBLIC, OWNER'S EMPLOYEES AND WORKERS b. PROVIDE AND MAINTAIN TEMPORARY DIRECTIONAL SIGNAGE CLEARLY IDENTIFYING THE PATH FOR 0167. PUNCH LIST ALL CONSTRUCTION RELATED TRAFFIC AS SHOWN ON THE SITE SURVEY PLAN, AND IDENTIFYING

ALLEYS PARKING LOTS THAT CONSTRUCTION TRAFFIC SHOULD NOT ENTER. c. PROVIDE AND MAINTAIN A PROJECT IDENTIFICATION SIGN. GOORDINATE SPECIFIC REQUIREMENTS WITH THE ARCHITECT AND, IF APPLICABLE, APPROVAL FROM LOCAL AUTHORITY HAVING

I. AT A MINIMUM, THE SIGN SHALL INCLUDE THE NAME OF THE PROJECT, THE NAME OF THE CONTRACTOR, THE NAME OF THE OWNER, THE NAME OF THE ARCHITECTURAL FIRM, THE NAME OF ENGINEERING FIRMS. THE NAME OF THE FINANCIAL INSTITUTION PROVIDING FINANCING AND GRAPHIC COMPANY LOGOS, IF APPLICABLE, OF EACH.

2. THE SIGN SHALL BE DESIGNED BY A GRAPHIC DESIGN FIRM EXPERIENCED WITH THE TYPE AND SIZE REQUIRED. PRIOR TO FABRICATION, SUBMIT DESIGN TO ARCHITECT FOR APPROVAL.

3. SIZE: MINIMUM 4 FEET BY 8 FEET. 4. SIGN BACKING SHALL BE OF A THICKNESS AND TYPE OF MATERIAL TO WITHSTAND NORMAL CONDITIONS ON A CONSTRUCTION SITE, INCLUDING BUT NOT NECESSARILY LIMITED TO, WIND, DUST, ULTRAVIOLET EXPOSURE, ETG. 5. ERECTED BY THE CONTRACTOR. REMOVE AT PROJECT COMPLETION.

c. SIGNAGE ADVERTISING SUBCONTRACTORS, MATERIAL SUPPLIERS, EQUIPMENT SUPPLIERS, ETC. WILL NOT BE PERMITTED ON OR ADJACENT TO THE PROJECT SITE.

0155. BECAUSE THE OWNER WILL BE OCCUPYING THE BUILDING OR A PORTION OF THE BUILDING DURING THE CONSTRUCTION PERIOD, THE OWNER MAY OR WILL NOT REQUIRE ACCESS TO THE WORK AREA. CONDUCT ALL WORK IN A MANNER THAT WILL MINIMIZE THE NEED FOR DISRUPTION OF OWNER'S NORMAL OPERATIONS.

0156. NEW CONSTRUCTION: THE STRUCTURE OF THE ADDITION IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT THE BUILDING IS FULLY ERECTED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEATHING, TEMPORARY BRACING, GUYS, TIE-DOWNS, ETC. REQUIRED TO COMPLETE THE WORK. SUCH MATERIALS SHALL REMAIN THE CONTRACTOR'S PROPERTY AT THE COMPLETION OF THE PROJECT.

0157. RENOVATION: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES TO ENSURE THE SAFETY OF THE EXISTING BUILDING AND ITS COMPONENT PARTS DURING ALL PHASES OF CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEATHING, TEMPORARY BRACING, GUYS, TIE-DOWNS, ETC. AS REQUIRED TO COMPLETE THE WORK. SUCH MATERIALS SHALL REMAIN THE CONTRACTOR'S PROPERTY AT THE COMPLETION OF THE PROJECT.

0158. EQUIPMENT FRAMING, LOADS, OPENINGS AND STRUCTURES IN ANY WAY RELATED TO HVAC. PLUMBING OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR SCHEMATIC PURPOSES ONLY. THE CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADE(S) BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. ANY EXCESS COSTS RELATED TO VARIATION IN THESE REQUIREMENTS SHALL BE BORNE BY THE CONTRACTOR AND/OR APPROPRIATE SUBCONTRACTOR.

0159. EACH TRADE SHALL FURNISH THE CONTRACTOR WITH, AND BE RESPONSIBLE FOR, EXACT LOCATION AND SIZE OF ALL PENETRATIONS, HOLES AND OPENINGS REQUIRED FOR THEIR WORK. UNLESS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS, THE COST OF FORMING HOLES AND OPENINGS SHALL BE BORNE BY THE SUBCONTRACTOR REQUIRING THE HOLE(S) AND/OR OPENING(S).

0160. ALL WORK IS TO BE INSTALLED STRAIGHT, PLUMB, LEVEL AND IN TRUE ALIGNMENT, SHIMMING AS REQUIRED. ALL SHIMS ARE TO BE CONCEALED. ALL WORK SHALL BE NEATLY AND ACCURATELY FITTED, SCRIBED AND THOROUGHLY SECURED. MITERS AND OTHER JOINTS SHALL BE PLANED AND SANDED. ALL WORK SHALL BE LEFT CLEAN AND FREE FROM WARP, TWIST, OPEN JOINTS AND OTHER

0161. PROVIDE EXPANSION CONTROL SYSTEMS AS REQUIRED BY THE MANUFACTURER OF THE PRODUCT BEING INSTALLED WHETHER OR NOT INDICATED ON THE DRAWINGS. COORDINATE ALL LOCATIONS WITH THE ARCHITECT.

a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THESE GENERAL NOTES.

PROVIDE COMPLETE AND THOROUGH FINAL CLEANING OF THE PROJECT AREA WITHIN THE PROPERTY AT THE COMPLETION OF ALL WORK.

PROJECT AND UNTIL FINAL ACCEPTANCE BY THE OWNER. REMOVE WHEN NO LONGER REQUIRED.

a. BROOM CLEAN AND MEDIUM PRESSURE WASH ALL CONCRETE AND ASPHALT PAVED AREAS AND ALL PUBLIC PAVED AREAS DIRECTLY ADJACENT TO THE SITE. b. REMOVE AND LEGALLY DISPOSE OF ALL DEBRIS

c. GLEAN EXPOSED MASONRY WORK. d. GLEAN PERMANENT SITE SIGNAGE. e. CLEAN LIGHTING POSTS, FIXTURES AND LENSES. F. BROOM CLEAN AND MEDIUM PRESSURE WASH

f.a. DUMPSTER ENCLOSURE. f.b. MATERIAL AND EQUIPMENT STAGING AREAS. f.c. CONSTRUCTION PARKING AREA(S). f.d. JOBSITE TRAILER STAGING AREA.

0164. FINAL CLEANING - BUILDING EXTERIOR

PROVIDE COMPLETE AND THOROUGH FINAL CLEANING OF THE BUILDING EXTERIOR AT THE COMPLETION OF ALL WORK, INCLUDES ACCESSORY STRUCTURES, ALL CLEANING PRODUCTS AND PROCEDURES ARE TO BE IN ACCORDANCE WITH THE MANUFACTURER OF THE ITEM BEING CLEANED. a. REMOVE ALL TRACES OF SPLASHED MATERIAL, SPOTTING, SMUDGES, STAINING, LABELS, TAPE,

PROTECTIVE COVERINGS AND OTHER FOREIGN MATTER FROM ALL SURFACES. b. POLISH ALL GLAZING, STAINLESS, BRASS, MILL AND CHROME SURFACES.

c. CLEAN EXPOSED MASONRY, STUCCO AND EAVE WORK.

d. CLEAN PERMANENT BUILDING SIGNAGE. e. CLEAN BUILDING COLUMNS, RAILINGS AND OTHER DECORATIVE ITEMS. BROOM CLEAN AND MEDIUM PRESSURE WASH AREAS SUCH AS STOOPS, PATIOS, PORCHES DECKS,

STAIRS, ETC. ATTACHED TO AND/OR ADJACENT TO THE BUILDING. q. REMOVE ALL DEBRIS FROM THE ROOF AREAS.

PROVIDE COMPLETE AND THOROUGH FINAL CLEANING OF THE BUILDING INTERIOR AT THE COMPLETION OF ALL WORK. INCLUDES ALL ACCESSORY STRUCTURES. ALL CLEANING PRODUCTS AND PROCEDURES ARE TO BE IN ACCORDANCE WITH THE MANUFACTURER FOR THE ITEM BEING CLEANED.

 a. VISUALLY INSPECT ALL SURFACES. REMOVE ALL TRACES OF SOIL, WASTE MATERIAL, SPOTTING, SMUDGES, PAINT DROPPINGS, WALLBOARD JOINT COMPOUND, STAINS AND OTHER FOREIGN MATTER. b. REMOVE AND LEGALLY DISPOSE OF ALL DEBRIS. :. CLEAN EXPOSED, VISUAL, ETC. MASONRY WORK.

REFLECTIVE SURFACES AND OTHER EXPOSED METAL SURFACES. e. BROOM CLEAN AND DAMP MOP HARD FLOORING SURFACES SUCH AS VINYL COMPOSITION TILE, EXPOSED CONCRETE, ETC.

F. DAMP CLOTH WIPE DOWN/DUST ALL HORIZONTAL AND VERTICAL SURFACES. INCLUDES INTERIORS OF CABINETS, DRAWERS, LOCKERS, FIRE EXTINGUISHER CABINETS, ETC. REMOVE LABELS, TAGS, TAPE, ETC. FROM ALL HORIZONTAL AND VERTICAL SURFACES.

d. POLISH ALL GLAZING, MIRROR GLASS, STAINLESS, CHROME, MILL, BRASS, RECESSED LIGHTING

. VACUUM CARPETS. WAX AND BUFF POLISH VINYL COMPOSITION TILE SURFACES.

CLEAN THE INTERIOR OF LIGHTING COVES. SANITIZE PLUMBING FIXTURES AND WATER FOUNTAINS. I. UTILIZING MATERIAL PROVIDED BY THE OWNER, STOCK PAPER AND SOAP DISPENSERS.

m. REPLACE OR CLEAN ALL HVAC FILTERS.

a. COMPLY WITH PROCEDURES INDICATED IN THE GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION FOR THE ISSUANCE OF CERTIFICATE OF SUBSTANTIAL COMPLETION AND CONTRACT

b. WHEN SUBMITTING THE FINAL REQUEST FOR PAYMENT, FURNISH TO THE ARCHITECT OR OWNER: ONE BOUND COPY, SORTED AND DIVIDED BY DIVISION, OF ALL PRODUCT DATA; COLORS; FINISHES; MAINTENANCE INSTRUCTIONS; CLEANING INSTRUCTIONS; MANUFACTURER, SUBCONTRACTOR AND CONTRACTOR WARRANTIES; SCHEMATICS; OPERATIONS MANUALS; ETC. OF ALL INSTALLED PRODUCTS. DOCUMENTS ARE TO BE CLEARLY MARKED INDICATING SIZE, TYPE, MODEL, ITEM AND SERIAL NUMBERS. AN ORGANIZED, WRITTEN LISTING OF CONTRACTOR AND SUBCONTRACTOR NAME, ADDRESS, TELEPHONE NUMBER(S) AND POINT OF CONTACT ARE TO BE INSERTED AT THE FRONT OF THE MANUAL.

c. FURNISH TO THE OWNER WHEN SUBMITTING FINAL REQUEST FOR PAYMENT: I. SPARE PARTS AND MAINTENANCE MATERIALS;

2. ATTIC STOCK;

3. KEYS, SPECIALTY TOOLS, ETC; 4. WRITTEN EVIDENCE OF LIEN RELEASES RECEIVED FROM ALL SUBCONTRACTORS AND MATERIAL SUPPLIERS:

5. PERMIT DRAWINGS AND INSPECTION CARD(S);

6. "PROJECT RECORD" DRAWINGS; 1. PHOTOGRAPHIC DOCUMENTATION OF THE PROJECT (ORGANIZED BY DATE); 8. WRITTEN EVIDENCE OF INSPECTIONS AND TESTING FOR HVAC AIR BALANCING, FIRE

SUPPRESSION SYSTEM, LIMITED AREA FIRE SPRINKLER SYSTEM, BACK-FLOW PREVENTER, SOILS, CONCRETE, STRUCTURAL STEEL AND SPRAY APPLIED FIREPROOFING; AND 9. WRITTEN EVIDENCE OF MANUFACTURER'S FINAL INSPECTION OF ROOFING SYSTEM, EXTERIOR INSULATION AND FINISH SYSTEM.

a. WITHIN FIVE (5) BUSINESS DAYS OF RECEIPT OF WRITTEN NOTIFICATION OF SUBSTANTIAL COMPLETION FROM THE CONTRACTOR AND RECEIPT OF THE CONTRACTOR'S PUNCH LIST, THE OWNER, OR OWNER'S REPRESENTATIVE, OR THE ARCHITECT OR HIS REPRESENTATIVE SHALL CONDUCT AN INSPECTION OF THE PROJECT TO DETERMINE IF THERE ARE ANY AREAS OF WORK BEYOND THE CONTRACTOR'S PUNCH LIST THAT ARE DEFICIENT OR IN UNACCEPTABLE CONDITION. A PUNCH LIST WILL BE PRODUCED OF SAID ITEMS WITHIN SEVEN (7) BUSINESS DAYS OF THE INSPECTION. THE CONTRACTOR SHALL COMPLETE AND CORRECT ALL ITEMS ON BOTH PUNCH LISTS WITHIN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS OF RECEIPT OF THE OWNER'S PUNCH LIST. IF THE CONTRACTOR FAILS TO PROPERLY COMPLETE THE ITEMS WITHIN THE DEADLINE, THE OWNER RESERVES THE RIGHT TO HIRE SEPARATE CONTRACTOR(S) TO COMPLETE THE WORK AND BACK CHARGE THE ORIGINAL CONTRACTOR FOR ALL ASSOCIATED CONTRACTOR AND ARCHITECTURAL COSTS.

0168. AS-BUILT DRAWINGS UTILIZING THE "PROJECT RECORD" SET OF DOCUMENTS, CONTRACTOR TO RECORD, IN LEGIBLE RED INK, AS-BUILT INFORMATION CONCURRENTLY WITH CONSTRUCTION PROGRESS. INCLUDE INFORMATION

a. MEASURED DEPTHS OF VARIOUS ELEMENTS OF FOUNDATIONS IN RELATION TO FINISH FLOOR

b. REFERENCED FROM PERMANENT SURFACE IMPROVEMENTS, MEASURED HORIZONTAL AND VERTICAL LOCATIONS OF UNDERGROUND UTILITIES AND APPURTENANCES: c. REFERENCED FROM VISIBLE AND ACCESSIBLE FEATURES OF THE STRUCTURE, MEASURED

LOCATIONS OF INTERIOR UTILITIES AND APPURTENANCES CONCEALED IN THE CONSTRUCTION: d. FIELD CHANGES OF DIMENSIONS, DETAILS, ELEVATIONS, GRADES, ETC:

e. CHANGES MADE BY CHANGE DIRECTIVE AND CHANGE ORDER; f. DETAILS NOT ON ORIGINAL DRAWINGS;

. REFERENCES TO SHOP DRAWINGS; AND n. ANY OTHER MODIFICATION INFORMATION DEEMED NECESSARY FOR THE PROPER DOCUMENTATION OF THE EXISTING CONDITIONS AND NEW WORK.

I. AT END OF PROJECT, CONTRACTOR TO COPY ALL AS-BUILT INFORMATION FROM PROJECT RECORD SET OF DOCUMENTS TO NEW CLEAN SET OF CONSTRUCTION DOCUMENTS AND TURN SAID SET OVER TO THE OWNER.

0169. ATTIC STOCK PROVIDE ADDITIONAL MATERIAL (ATTIC STOCK) TO THE OWNER AT PROJECT COMPLETION. THE MATERIAL IS TO MATCH IN COLOR, LOT NUMBER, BATCH, TEXTURE, TEMPERATURE (KELVIN), ETC. OF THAT WHICH WAS INSTALLED (EACH TYPE) AND SHALL BE IN FULL, UNOPENED CARTONS, BUCKETS, CANS, BOXES, ETC.

a. PAINT: ONE GALLON OF EACH COLOR. b. FLOOR COVERING:

I. VINYL COMPOSITION TILE: IO PERCENT. 2. SHEET VINYL: 10 PERCENT. 3. BROADLOOM CARPET: 10 PERCENT OF STYLE, PATTERN AND COLOR

4. MODULAR CARPET: I CARTON OF EACH STYLE, PATTERN AND COLOR.

5. GERAMIC TILE: I CARTON. 6. WALK-OFF MAT: I CARTON. 7. VINYL PLANK: I CARTON OF EACH STYLE, PATTERN AND COLOR.

c. LAMPS: I. ONE BOX INSTALLED IN LAY-IN AND COVE LIGHT FIXTURES. 2. TWO EACH INSTALLED IN RECESSED DOWNLIGHTS.

3. THREE EACH INSTALLED IN UNDER CABINET LIGHT FIXTURES. 4. FOUR EACH INSTALLED IN EXTERIOR LIGHT FIXTURES. d. WALLCOVERING: 10 PERCENT. e. SPRINKLER HEADS PER NEPA.

f. ACOUSTICAL CEILING SYSTEM: I. CEILING TILE: I CARTON.

0170. WARRANTY a. THE CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY TO THE OWNER THAT ALL WORK IS IN CONFORMITY WITH THE CONTRACT DOCUMENTS AND FREE FROM DEFECTS IN WORKMANSHIP, MATERIALS AND EQUIPMENT FOR A PERIOD OF ONE YEAR COMMENCING WITH FINAL ACCEPTANCE BY THE ARCHITECT AND OWNER

b. THE CONTRACTOR, THROUGH THE MANUFACTURER, SHALL PROVIDE A WRITTEN WARRANTY TO THE OWNER FOR THOSE INSTALLED ITEMS THAT CARRY A MANUFACTURER'S WARRANTY BEYOND THE ONE (1) YEAR PERIOD.

c. IF DEFECTIVE WORK BECOMES APPARENT WITHIN THE WARRANTY PERIOD, THE OWNER SHALL PROMPTLY NOTIFY THE CONTRACTOR IN WRITING. WITHIN TWO (2) BUSINESS DAYS OF RECEIPT OF SAID NOTICE, THE CONTRACTOR SHALL, IN THE COMPANY OF ONE OR MORE REPRESENTATIVES OF THE OWNER, VISIT THE PROJECT TO DETERMINE THE EXTENT OF THE DEFECTIVE WORK. THE CONTRACTOR SHALL PROMPTLY REPAIR OR REPLACE THE DEFECTIVE WORK, INCLUDING ALL ADJACENT WORK DAMAGED AS A RESULT OF SUCH DEFECTIVE WORK OR AS A RESULT OF REMEDYING THE DEFECTIVE WORK, WHETHER OR NOT SUCH ADJACENT WORK WAS ORIGINALLY PROVIDED BY THE CONTRACTOR. d. IF THE DEFECTIVE WORK IS CONSIDERED, BY THE OWNER, TO BE AN EMERGENCY, THE OWNER

RESERVES THE RIGHT TO NOTIFY THE CONTRACTOR BY TELEPHONE OR OTHER EXPEDITIOUS

MEANS. THE CONTRACTOR SHALL VISIT THE PROJECT NO LATER THAN ONE (I) CALENDAR DAY OF RECEIPT OF SAID NOTICE. e. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE COST OF TEMPORARY MATERIALS, FACILITIES, UTILITIES AND/OR EQUIPMENT REQUIRED BY EITHER THEM OR THE OWNER IN ORDER FOR THE OWNER TO CONTINUE DOING UNINTERRUPTED BUSINESS DURING THE REPAIR OR REPLACEMENT OF THE DEFECTIVE WORK.

0171. SUBSTANTIAL COMPLETION / FINAL COMPLETION / LIQUIDATED DAMAGES

a. THE DATE OF SUBSTANTIAL COMPLETION, AS NOTED IN THE OWNER'S CONTRACT WITH THE CONTRACTOR, IS THE DATE UPON WHICH THE WORK IS COMPLETED TO THE POINT THAT THE OWNER COULD, IF NECESSARY, OCCUPY AND MAKE USE OF THE BUILDING, AND THAT ONLY MINOR PUNCH LIST ITEMS REMAIN TO BE FINISHED BY THE CONTRACTOR.

I. IF THE PROJECT HAS BEEN DELAYED BY EVENTS COMPLETELY OUTSIDE OF THE CONTROL OF THE CONTRACTOR, IE UNFORESEEN CONDITIONS REQUIRING EXTENSIVE ACTION BEING TAKEN BY THE CONTRACTOR FAR BEYOND THE SCOPE INDICATED IN THE DRAWINGS, THE DATE OF SUBSTANTIAL COMPLETION CAN BE MODIFIED TO A LATER DATE THAT IS MUTUALLY AGREEABLE TO THE CONTRACTOR, THE ARCHITECT AND THE OWNER, AND SHALL BE MEMORIALIZED IN WRITING VIA CHANGE ORDER.

THE DATE OF FINAL COMPLETION IS DEFINED AS THIRTY (30) DAYS AFTER THE DATE OF SUBSTANTIAL COMPLETION AND IS CONSIDERED TO BE A REASONABLE PERIOD OF TIME FOR THE CONTRACTOR TO COMPLETE ALL OF THE ITEMS ON THE PUNCH LIST.

IF THE CONTRACTOR DOES NOT HAVE THE WORK ON THE PROJECT SUBSTANTIALLY COMPLETE BY THE SPECIFIED DATE FOR SUBSTANTIAL COMPLETION, OR FINALLY COMPLETE BY THE DATE OF FINAL COMPLETION, THE CONTRACTOR SHALL PAY THE OWNER LIQUIDATED DAMAGES IN THE AMOUNT OF \$500 PER DAY, WHICH WILL BE NOTED AS A DEDUCTION ON THE CONTRACTOR'S FINAL PAY APPLICATION. THE CONTRACTOR ACKNOWLEDGES THAT THIS AMOUNT REPRESENTS A REASONABLE VALUE FOR THE OWNER'S DAMAGES FOR LOSS OF THE INTENDED USE OF THE Building.

DIVISION 2 - EXISTING CONDITIONS / DEMOLITION

c. THE AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE)

OPERATIONS

a. DIVISIONS OO AND OI OF THESE GENERAL NOTES. b. SPECIFICATIONS IN ALL DIVISIONS OF THE GENERAL NOTES ARE DIRECTLY APPLICABLE TO THIS SECTION AND THIS SECTION IS DIRECTLY APPLICABLE TO THEM.

I. ANSI/ASSE AIO.6. SAFETY AND HEALTH PROGRAM REQUIREMENTS FOR DEMOLITION 2. ANSI/ASSE AIO.44, CONTROL ENERGY SOURCES (LOCKOUT/TAGOUT) FOR CONSTRUCTION AND

DEMOLITION OPERATIONS d. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) I. NFPA 24I, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION AND DEMOLITION

e. CODE OF FEDERAL REGULATIONS (CFR) I. 40 CFR I SUBCHAPTER C PART 82, PROTECTION OF STRATOSPHERIC OZONE

F. OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) I. OSHA 29 CFR 1926.850, DEMOLITION PREPARATORY PROCEDURES

2. OSHA 29 CFR 1926 SUBPART D. OCCUPATIONAL HEALTH AND ENVIRONMENTAL CONTROLS 3. OSHA 29 CFR 1926 SUBPART E, PERSONAL PROTECTIVE AND LIFESAVING EQUIPMENT 4. OSHA 29 CFR 1926 SUBPART K, ELECTRICAL

6. OSHA 29 CFR 1926 SUBPART Z, TOXIC AND HAZARDOUS SUBSTANCES

a. REMOVE: DETACH ITEM FROM EXISTING SURFACE AND LEGALLY DISPOSE OFF-SITE

b. SALVAGE: DETACH ITEM FROM EXISTING SURFACE, PACKAGE TO PROTECT AGAINST DAMAGE AND DELIVER TO THE OWNER. c. SALVAGE AND REINSTALL: DETACH ITEM FROM EXISTING SURFACE, PREPARE FOR RE-USE AND

REINSTALL WHERE INDICATED. d. EXISTING TO REMAIN: EXISTING ITEM THAT IS NOT TO BE REMOVED.

5. OSHA 29 CFR 1926 SUBPART M, FALL PROTECTION, CONSTRUCTION

a. THE OWNER HAS PREVIOUSLY HAD THE BUILDING INSPECTED BY GANDEE AND ASSOCIATES, INC. (642 BROOKSEDGE BLVD., WESTERVILLE, OHIO 43081), WHICH RESULTED IN THE DISCOVERY OF ASBESTOS IN LIMITED QUANTITIES OF VINYL ASBESTOS FLOOR TILE, PIPE INSULATION WRAP AND FITTINGS, GYPGUM BOARD, FIRE DOORS, DEBRIS, ADHESIVE AND CEILING TILE. ALL SAID FINDINGS ARE DETAILED IN GANDEE'S REPORT OF FINDINGS, DATED AUGUST 2017. THIS REPORT IS ATTACHED TO THE PDF VERSION OF THESE DRAWINGS.

b. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SAFELY HAVE ALL ASBESTOS ABATED FROM THE BUILDING BY A QUALIFIED ASBESTOS ABATEMENT CONTRACTOR PRIOR TO CONSTRUCTION WITHIN THE BUILDING.

IF AFTER ABATEMENT PROCEDURES ARE FINALIZED AND THE CONTRACTOR ENCOUNTERS MATERIALS WITHIN THE DEMOLITION AREA REASONABLY BELIEVED TO BE ASBESTOS, POLYCHLORINATED BIPHENYL (PGB) OR OTHER TOXIC MATERIAL WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AFFECTED AREA AND REPORT. IN WRITING, TO THE OWNER AND ARCHITECT.

THAT ARE SUSPECTED TO CONTAIN ASBESTOS, LEAD, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC SUBSTANCE. e. WORK IN ANY AFFECTED AREA SHALL NOT COMMENCE UNTIL THE SUSPECTED MATERIAL IS PROVEN NOT TO BE HAZARDOUS OR THE SUSPECTED MATERIAL IS RENDERED HARMLESS AND/OR LEGALLY REMOVED BY A CONTRACTOR SPECIALIZED IN THE HANDLING AND DISPOSAL OF

HAZARDOUS MATERIAL. 0203. PRE-DEMOLITION MEETING

AFTER ASBESTOS ABATEMENT IS COMPLETED, BUT PRIOR TO THE START OF INTERIOR DEMOLITION OPERATIONS, THE CONTRACTOR SHALL:

a. CONDUCT AN ON-SITE COORDINATION MEETING . Attendees are to include the owner, the architect, the structural ensineer and any INDIVIDUAL OR GROUP HAVING JURISDICTIONAL INTEREST IN THE WORK. 2. DISCUSSIONS ARE TO INCLUDE A DETAILED SCHEDULE OF THE WORK, COORDINATION FOR SHUT-OFF, CAPPING AND CONTINUATION OF UTILITY SERVICES, DETAILS FOR DUST AND NOISE CONTROL, PROVISIONS FOR THE PROTECTION OF ELEMENTS TO REMAIN, SAFETY, METHODS OF

DISPOSAL OF DEBRIS, SHORING AND ANY ANTICIPATED INTERRUPTIONS OF THE OWNER'S OPERATIONS.

b. SUBMIT TO THE OWNER I. COPIES OF PERMITS AND NOTICES AUTHORIZING DEMOLITION OF DESIGNATED BUILDING ELEMENTS ISSUED BY THE AUTHORITY HAVING JURISDICTION; 2. DATE AND TIME STAMPED PHOTOGRAPHS OF EXISTING CONDITIONS ADJACENT TO AND OF THE O225. STRUCTURAL INTEGRITY

WORK AREA: AND 3. DOCUMENTATION OF ANY EXISTING DAMAGE OR IRREGULARITIES THAT MIGHT BE MISCONSTRUED AS DAMAGE RELATED TO DEMOLITION OPERATIONS. 0204. THE DEMOLITION OF ELEMENTS SUCH AS FIRE SUPPRESSION, PLUMBING, HVAC AND ELECTRICAL ARE

TO BE PERFORMED BY THE SUBCONTRACTOR SPECIALIZED IN THE TYPE OF WORK INVOLVED. 0205. DEMOLITION IS TO BE PERFORMED BY PERSONS WITH DOCUMENTED EXPERIENCE DEMOLISHING ELEMENTS SIMILAR IN SIZE AND SCOPE TO THIS PROJECT.

0206. ASIGN REMOVAL AND CUTTING TO TRADES QUALIFIED TO PERFORM THE DEMOLITION WORK IN A MANNER TO CAUSE LEAST DAMAGE TO EACH TYPE OF ELEMENT. 0207. RESPONSIBILITY FOR EXISTING CONDITIONS

a. THE ARCHITECT AND OWNER ASSUME NO RESPONSIBILITY FOR THE ACTUAL CONDITION OF THE BUILDING STRUCTURE, ALL BURIED OR CONCEALED ITEMS AND ALL ELEMENTS TO BE DEMOLISHED. b. CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSES WILL BE MAINTAINED AS MUCH AS PRACTICAL. HOWEVER, VARIATIONS WITHIN THE STRUCTURE MAY OCCUR DUE TO OWNER'S REMOVAL AND SALVAGE OPERATIONS BEFORE START OF DEMOLITION WORK.

0208. SALVAGED MATERIALS a. AS THE WORK PROGRESSES, ITEMS INDICATED TO BE REMOVED AND ARE OF SALVAGE VALUE TO

THE CONTRACTOR SHALL BE TRANSPORTED FROM THE SITE AS THEY ARE REMOVED. ON-SITE STORAGE OR ON-SITE SALE OF REMOVED ITEMS WILL NOT BE PERMITTED. b. THE CONTRACTOR SHALL MOVE AND SAFELY STORE, IN AN ORGANIZED FASHION IN A ROOM WITHIN THE BUILDING AS DESIGNATED BY THE OWNER AND AS SHOWN ON THE DRAWINGS, ALL ITEMS INDICATED TO BE SALVAGED AND TURNED OVER TO THE OWNER.

0209. ANY EQUIPMENT SCHEDULED FOR DEMOLITION THAT CONTAINS REFRIGERANT IS TO BE RECOVERED IN ACCORDANCE WITH 40 CFR 82 AND EPA REQUIREMENTS. a. TECHNICIAN IS TO PROVIDE A WRITTEN STATEMENT TO THE CONTRACTOR CERTIFYING THAT THE WORK HAS BEEN COMPLETED IN ACCORDANCE WITH REGULATIONS.

AND LEGAL, OFF-SITE DISPOSAL OF DEMOLISHED, NON-HAZARDOUS MATERIALS. NOTIFY APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL GOVERNING AUTHORITIES AS REQUIRED.

0210. THE CONTRACTOR SHALL OBTAIN AND PAY ALL NECESSARY PERMITS IN CONJUNCTION WITH HAULING

0211. DO NOT USE CUTTING TORCH OR SPARK GENERATING EQUIPMENT UNTIL THE AREA IS CLEAR OF COMBUSTIBLE MATERIAL. PRIOR TO START, VERIFY THE LOCATION(S) AND CONDITIONS OF CONCEALED SPACES.

a. OBTAIN AND PAY FOR NECESSARY PERMITS REQUIRED FOR CUTTING TORCH WORK.

b. PROVIDE AND MAINTAIN PORTABLE FIRE SUPPRESSION EQUIPMENT. c. PERFORM FIRE WATCH FOR THE DURATION OF THE CUTTING OPERATION AND A MINIMUM OF ONE HOUR AFTER THE COMPLETION OF THE CUTTING OPERATION.

0212. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT ROOMS, BUILDING EXITS, STAIRS, CORRIDORS, WALKWAYS OR OTHER MEANS OF EGRESS DURING DEMOLITION OPERATIONS.

0213. ELEMENTS AND ADJACENT FINISHES THAT ARE SCHEDULED TO REMAIN ARE TO BE PROTECTED FOR THE DURATION OF THE PROJECT. IF ACCEPTABLE TO THE OWNER, THE ELEMENT(S) MAY BE REMOVED, STORED IN A SECURE LOCATION AND REINSTALLED. PROMPTLY REPAIR DAMAGE TO ADJACENT FINISHES AS THE RESULT OF DEMOLITION WORK.

0214. MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS.

a. DO NOT INTERRUPT UTILITIES SERVING OCCUPIED OR USED AREAS UNTIL PROPERLY COORDINATED AND AUTHORIZED IN WRITING BY THE OWNER. IF DISRUPTIONS ARE NECESSARY, PROVIDE AND MAINTAIN ADEQUATE TEMPORARY SERVICES ACCEPTABLE TO THE OWNER AND AUTHORITIES HAVING JURISDICTION.

0215. THE ON-SITE BURNING OR BURYING OF ANY DEBRIS IS PROHIBITED.

0216. OBTAIN AUTHORIZATION FROM THE OWNER PRIOR TO CLOSING OR OBSTRUCTING DRIVES, PARKING AREAS, PRIVATE SIDEWALKS, ETC.

0217. COORDINATE AND OBTAIN AUTHORIZATION FROM AUTHORITIES HAVING JURISDICTION FOR ANY CLOSURE OR BLOCKAGE TO PUBLIC ALLEYS, STREETS, SIDEWALKS, ETC.

0218. BUILDING DEMOLITION a. PRIOR TO THE START OF DEMOLITION OPERATIONS, THE CONTRACTOR IS TO CONDUCT AN ON-SITE

 ATTENDEES ARE TO INCLUDE THE OWNER; ANY INDIVIDUAL OR GROUP HAVING JURISDICTIONAL INTEREST IN THE WORK, SUCH AS FOR ROAD CLOSURES OR BLOCKAGES, FIRE PROTECTION, ETC.; A REPRESENTATIVE FROM EACH UTILITY PROVIDER; OWNERS OF ADJACENT PROPERTIES AND THE ARCHITECT AND STRUCTURAL ENGINEER

2. DISCUSSIONS ARE TO INCLUDE A DETAILED SCHEDULE OF THE WORK, SAFETY, ROAD CLOSURES METHODS OF DISPOSAL OF DEBRIS, DUST CONTROL AND PROTECTION OF ADJACENT AREAS. b. PROVIDE PROTECTION OF OPEN EXCAVATIONS UNTIL CAN NO LONGER BE CONSIDERED UNGAFE.

c. REFERENCE THIS GENERAL NOTES SECTION FOR OTHER REQUIREMENTS.

0219. MAINTAIN FIRE PROTECTION SERVICES AND EQUIPMENT DURING DEMOLITION OPERATIONS. a. DEMOLISHED MATERIAL, EXCEPT FOR ITEMS OR MATERIALS INDICATED TO BE RE-USED,

SALVAGED OR OTHERWISE INDICATED TO REMAIN THE OWNER'S PROPERTY AND EXCEPT AS INDICATED HEREIN, SHALL BE THE CONTRACTOR'S PROPERTY

I. ANY DEMOLISHED MATERIAL CONSIDERED TO BE REUSABLE SHALL BE DONATED TO THE LOCAL HABITAT FOR HUMANITY. ANY DEMOLISHED MATERIAL CONSIDERED RECYCLABLE SHALL BE DONATED TO THE LOCAL

COMMUNITY ACTION AGENCY RECYCLING CENTER OR OTHER LOCAL INTERESTED ENTITY. NO

MONEY COMPENSATION SHALL BE RECEIVED FOR THE RECYCLED MATERIAL UNLESS SAME CREDIT HAS BEEN GIVEN TO THE OWNER. b. HISTORICAL ITEMS, RELICS AND SIMILAR OBJECTS INCLUDING, BUT NOT LIMITED TO COMMEMORATIVE PLAQUES AND TABLETS, ANTIQUES, MONUMENTS AND OTHER ITEMS OF INTEREST OR VALUE TO THE OWNER WHICH MAY BE ENCOUNTERED DURING DEMOLITION, REMAIN THE OWNER'S PROPERTY. GAREFULLY REMOVE AND SALVAGE EACH ITEM OR OBJECT IN A MANNER TO

PREVENT DAMAGE AND DELIVER PROMPTLY TO THE OWNER. 0221. DO NOT USE JACKHAMMERS OR OTHER HEAVY-DUTY IMPACT-TYPE TOOLS FOR DEMOTION WORK

AND IMMEDIATELY NOTIFY THE ARCHITECT.

PROTECTION OF EXISTING ELEMENTS TO REMAIN.

APPROVAL TO PROCEED WITH WORK IN THAT AREA.

ADJACENT SURFACES AND ELEMENTS THAT WILL REMAIN.

WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT OR STRUCTURAL ENGINEER. 0222. PERFORM DEMOLITION BY METHOD OF CONTRACTOR'S CHOICE EXCEPT AS OTHERWISE INDICATED. a. IF SAFETY OF THE STRUCTURE APPEARS TO BE COMPROMISED, CEASE DEMOLITION OPERATIONS

b. UNTIL DETERMINATION IS MADE FOR CONTINUING OPERATIONS, TAKE NECESSARY PRECAUTIONS TO SUPPORT THE STRUCTURE. c. PERFORM WORK IN AN EFFICIENT, SYSTEMATIC MANNER WITHOUT DELAYS OR UNSCHEDULED

d. IMMEDIATELY CLEAN ALL ADJACENT AREAS OF DUST, DUST AND DEBRIS CAUSED BY DEMOLITION OPERATIONS AND RETURN TO ORIGINAL OR LIKE NEW CONDITION THAT EXISTED BEFORE THE START OF THE WORK. d. THE OWNER SHALL BE RESPONSIBLE FOR TESTING ELEMENTS ENCOUNTERED DURING CONSTRUCTION 0223, TO PREVENT THE UNSAFE ACCUMULATION OF EXHAUST IN THE BUILDING, ALL POWERED EQUIPMENT (SAM-CUTTING MACHINERY, WELDERS, ETC.), SHALL BE ELECTRICAL OR PROPANE POWERED OR BE

OUTFITTED WITH AN APPROVED EXHAUST SCRUBBER. COORDINATE SPECIAL ELECTRICAL REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR. 0223. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS IN CONJUNCTION WITH HAULING AND DISPOSING OF DEMOLISHED MATERIALS AND PROVIDE TIMELY NOTICE OF ANY SUCH

ALL AT NO ADDITIONAL COST TO THE CONTRACT. WHEN PERFORMING SELECTIVE DEMOLITION WORK, CONTRACTOR TO TAKE ALL NECESSARY PRECAUTIONS REQUIRED TO PREVENT INJURY TO CONSTRUCTION WORKERS AND TO PREVENT DAMAGE TO THE REMAINING ADJACENT EXISTING SURFACES AND ELEMENTS. PROVIDE NECESSARY BARRICADES, LIGHTS AND ENCLOSURES AS NEEDED FOR WORKER SAFETY AND

PROVIDE ANY NECESSARY SHORING AND BRACING FOR SUPPORT AND PROTECTION OF

ACTIVITIES TO THE APPLICABLE FEDERAL, STATE OF OHIO, AND LOCAL GOVERNING AUTHORITIES -

FURNISH ALL LABOR, EQUIPMENT, TOOLS, TRANSPORTATION AND INCIDENTALS NECESARY TO PERFORM THE WORK.

0226. **RESULTANT UNINTENDED DAMAGES**

a. NO WORK SHALL BE DONE WHICH WILL, IN ANY WAY, REDUCE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF, DURING DEMOLITION, THE CONTRACTOR ENCOUNTERS ANY UNFORESEEN DETRIMENTAL STRUCTURAL MEMBER OR CONDITION, HE SHALL CONTACT THE ARCHITECT

a. ANY DAMAGE AS A RESULT OF THIS PROJECT TO THE EXISTING BUILDING OR EXISTING

IMMEDIATELY AND CEASE WORK IN THAT AREA UNTIL OBTAINING THE ARCHITECT'S WRITTEN

ADJACENT PUBLIC STREETS, SIDEWALKS, ALLEYS AND CURBS, SHALL BE REPAIRED TO IT'S ORIGINAL CONDITION OR BETTER, OR REPLACED IN-KIND AT THE EXPENSE OF THE CONTRACTOR.

a. DO NOT CLOSE OR OBSTRUCT EXISTING ADJACENT ROADS, ALLEYS, DRIVEWAYS, STREET PARKING, SIDEMALKS AND PASSAGEMAYS WITHOUT PROPER AUTHORIZATION FROM THE OWNER AND FROM THE LOCAL AUTHORITY HAVING JURISDICTION.

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TIDI 426 EAST MAIN STREET LANCASTER, OHIO 43130 (740) 654-4048 phone: facsimile: (740) 654-3009

> written consent of the Architect COMMISSION

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ISSUE MARK DATE BID 5-5-22

> STEPHEN LUCHTENBERG

> > 8546

DRAWN BY: NJP, SM!

Expiration Date: December 31, 2023 GENERAL NOTES **DIVISION THROUGH DIVISION 2**

Stephen M. Luchtenberg

License No. 8546

c. THICKENED SLABS d. SLABS-ON-GRADE

e. INTERIOR EQUIPMENT AND OTHER SPECIALTY PADS

q. POURED-IN-PLACE WALLS

0301. FOR EXTERIOR SITE CONCRETE, REFERENCE DIVISION 32 OF THESE GENERAL NOTES. FOR SUBBASE MATERIAL REFERENCE DIVISION 31 OF THESE GENERAL NOTES.

0302. PROVIDE SUBMITTAL IN ACCORDANCE WITH GENERAL NOTES SECTION 0141.

b. STEEL REINFORCING SHOP DRAWINGS

c. LIQUID MEMBRANE-FORMING COMPOUND.

d. ADMIXTURES e. LABORATORY REPORTS FOR CONCRETE MATERIALS AND MIX DESIGN TESTING

0303. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION

b. SPECIFICATIONS IN ALL DIVISIONS OF THESE GENERAL NOTES ARE DIRECTLY APPLICABLE TO THIS

c. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI):

2. ACI 201, GUIDE TO DURABLE CONCRETE

5. ACI 224, JOINTS IN CONCRETE CONSTRUCTION

6. ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE

IO. ACI 306R, GUIDE AND STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING II. ACI 308R, GUIDE TO CURING CONCRETE

14. ACI 311.7, INSPECTION SERVICES SPECIFICATION FOR CAST-N-PLACE CONCRETE CONSTRUCTION 15. ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

16. ACI 34TR, GUIDE TO FORMWORK FOR CONCRETE

I. AMS DI.I, STRUCTURAL WELDING CODE FOR REINFORCING STEEL

:. CONCRETE REINFORCING STEEL INSTITUTE (CRSI):

2. PLACING REINFORCING BARS

I. NFPA 70, NATIONAL ELECTRIC CODE

h. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM): I. ASTM A615, STANDARD SPECIFICATION FOR DEFORMED AND PLAIN CARBON-STEEL BARS FOR

CONCRETE REINFORCEMENT 2. ASTM A853, STANDARD SPECIFICATION FOR STEEL WIRE, CARBON, FOR GENERAL USE

3. ASTM AIO64, STANDARD SPECIFICATION FOR CARBON-STEEL WIRE AND WELDED WIRE REINFORCEMENT, PLAIN AND DEFORMED, FOR CONCRETE

4. ASTM C3I, STANDARD PRACTICE FOR MAKING AND CURING CONCRETE TEST SPECIMENS IN THE

5. ASTM C33, STANDARD SPECIFICATION FOR CONCRETE AGGREGATE 6. ASTM C39, STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL

CONCRETE SPECIMENS 1. ASTM C94, STANDARD SPECIFICATION FOR READY-MIX CONCRETE

8. ASTM CI43, STANDARD TEST METHOD FOR SLUMP OF HYDRAULIC CEMENT CONCRETE

9. ASTM CI50, STANDARD SPECIFICATION FOR PORTLAND CEMENT

IO. ASTM CITI, STANDARD SPECIFICATION FOR SHEET MATERIAL FOR CURING CONCRETE II. ASTM C330, STANDARD SPECIFICATION FOR LIGHTWEIGHT AGGREGATES FOR STRUCTURAL

12. ASTM C470, STANDARD SPECIFICATION FOR MOLDS FOR FORMING CONCRETE TEST CYLINDERS 0312. FORMINORK

VERTICALLY

3. ASTM C494, STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE 14. ASTM C778, STANDARD SPECIFICATION FOR STANDARD SAND

15. ASTM C881, STANDARD SPECIFICATION FOR EPOXY-RESIN-BASED BONDING SYSTEMS FOR

16. ASTM CI059, STANDARD SPECIFICATION FOR LATEX AGENTS FOR BONDING FRESH TO

HARDENED CONCRETE 17. ASTM CI315, STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS HAVING

SPECIAL PROPERTIES FOR CURING AND SEALING CONCRETE 18. ASTM C1582, STANDARD SPECIFICATION FOR ADMIXTURES TO INHIBIT CHLORIDE-INDUCED

CORROSION OF REINFORCING STEEL IN CONCRETE

19. ASTM C1602, STANDARD SPECIFICATION FOR MIXING WATER USED IN THE PRODUCTION OF HYDRAULIC CEMENT CONCRETE

20.ASTM C1697, STANDARD SPECIFICATION FOR BLENDED SUPPLEMENTARY CEMENTITIOUS

21. ASTM DIT51, STANDARD SPECIFICATION FOR PREFORMED EXPANSION JOINT FILLER 22.ASTM D2940, STANDARD SPECIFICATION FOR GRADED AGGREGATE MATERIAL FOR SUBBASES

LEVELNESS NUMBERS 24. ASTM EI543. STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS

25. ASTM EI145, STANDARD SPECIFICATION FOR WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS

0304. STRUCTURAL CONCRETE

a. VERIFY ALL REQUIREMENTS WITH THE INFORMATION INDICATED ON THE DRAWINGS.

<u>CLASS</u> I	L <u>OCATION</u> FOOTINGS, PIERS, FOUNDATION WALLS	<u>f'c</u> 3,000 p.s.l.	WATER/CEMENT RATIO 0.58
II	SLABS-ON-GRADE (INTERIOR)	3,500 p.s.i.	0.50
III	SLABS-ON-GRADE (EXTERIOR) AND ALL EXTERIOR CONCRETE (AIR ENTRAINED) NOT OTHERWISE IDENTIFIED		0.40

BACKFILL BELOW FOOTING 2,500 p.s.i. 0.67

b. PROVIDE "LEAN CONCRETE" (CLASS IV) BELOW "OVER EXCAVATIONS", SOFT AREAS, ETC.

c. REFERENCE THE DRAWINGS FOR SPECIFIC LOAD INFORMATION. d. WATER/CEMENT RATIO: IF SUITABLE DATA FROM FIELD EXPERIENCE OR LABORATORY TRIAL BATCHES CANNOT BE OBTAINED, CONCRETE PORTIONS SHALL BE ESTABLISHED UTILIZING THE "WATER CEMENT RATIO LIMITS TABLE" AND LIMIT RESTRICTIONS OF ACI 301.

0305. READY-MIX QUALIFICATIONS

a. A FIRM EXPERIENCED IN MANUFACTURING READY-MIX CONCRETE PRODUCTS AND COMPLIES WITH ASTM C94 REQUIREMENTS FOR PRODUCTION FACILITIES AND EQUIPMENT.

"CERTIFICATION OF READY-MIX CONCRETE PRODUCTION FACILITIES"

0306. ADMIXTURE MANUFACTURER QUALIFICATIONS

a. A FIRM EXPERIENCED IN MANUFACTURING CHEMICAL ADMIXTURES FOR CONCRETE IN COMPLIANCE

a. CONTRACTOR SHALL COORDINATE AND PAY FOR CONCRETE TESTING UTILIZING TESTING LAB THAT IS APPROVED BY OWNER. PROVIDE REPORT TO ARCHITECT.

b. TESTING AGENCY REQUIREMENTS b.a. AN INDEPENDENT AGENCY QUALIFIED ACCORDING TO ASTM CIOTT AND ASTM E329 FOR

PERSON CONDUCTING FIELD TESTS SHALL BE QUALIFIED AS AN ACI CONCRETE FIELD TESTING TECHNICIAN, GRADE I, ACCORDING TO ACI CP-OI, OR AN EQUIVALENT CERTIFICATION

PERSON PERFORMING LABORATORY TESTS SHALL BE AN ACI CERTIFIED CONCRETE STRENGTH TESTING TECHNICIAN AND CONCRETE LABORATORY TESTING TECHNICIAN, GRADE I.

b.d. TESTING AGENCY LABORATORY SUPERVISOR SHALL BE AN ACI CERTIFIED CONCRETE LABORATORY TESTING TECHNICIAN, GRADE II.

0310. MATERIALS: a. VERIFY ALL REQUIREMENTS WITH THE INFORMATION INDICATED ON THE STRUCTURAL DRAWINGS. b. CONCRETE

PORTLAND CEMENT: ASTM C150, TYPE I.

2. FLY ASH IN ACCORDANCE WITH ASTM C618; CLASS C 3. NORMAL WEIGHT AGGREGATES: CLEAN, FINE AND COURSE, COMPLYING WITH ASTM C 33; I-I/2

INCH, I INCH OR 3/4 INCH; FROM ONE SOURCE; USE OF PIT OR BANK-RUN GRAVEL IS NOT 4. LIGHTWEIGHT AGGREGATES: COMPLYING WITH ASTM C330; I INCH, 3/4 INCH, I/2 INCH OR 3/8

INCH; FROM ONE SOURCE. 5. POTABLE WATER: COMPLYING WITH ASTM C1602 AND ASTM C1603.

c. ADMIXTURES SHALL CONTAIN CORROSION INHIBITORS WATER-REDUCING: ASTM C494, TYPE A. 2. RETARDING: ASTM C494, TYPE B.

3. WATER-REDUCING ACCELERATOR: ASTM C494, TYPE E. 4. WATER-REDUCING RETARDER: ASTM C494, TYPE D.

5. WATER-REDUCING RETARDING HIGH RANGE ADMIXTURE: ASTM C494, TYPE G. 6. WATER-REDUCING HIGH RANGE ADMIXTURE: ASTM C494, TYPE F. USE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS.

d. DEFORMED REINFORCING BARS: ASTM A615, GRADE 60. SIZES, SHAPES AND LOCATIONS AS INDICATED ON THE STRUCTURAL DRAWINGS

2. FOOTING CORNER BARS: MATCH HORIZONTAL REINFORGING; MINIMUM LENGTH OF EACH LEG SHALL BE 45 BAR DIAMETERS. 3. PROVIDE REINFORCING BAR ALIGNMENT DEVICES AT A MAXIMUM SPACING OF 192 BAR

4. AT SPLICES IN VERTICAL REINFORCING BARS, PROVIDE MECHANICAL COUPLERS OR 48 BAR DIAMETER LAP OF SAME SIZE REINFORCING BAR.

e. FIBRILLATED POLYPROPYLENE FIBER. I. USED WHERE WELDED WIRE FABRIC IS NON-STRUCTURAL OR AS A REPLACEMENT FOR NON-STRUCTURAL WELDED WIRE FABRIC.

2. QUANTITY AND LENGTH RECOMMENDED BY THE MANUFACTURER FOR THE TYPE OF CONCRETE WORK INVOLVED. 3. MANUFACTURER: FORTA CORP., GROVE CITY PA; OR APPROVED EQUAL,

f. STEEL WELDED WIRE FABRIC (WWF): PER ASTM AI85; SIZE AND LOCATION AS INDICATED ON THE q. DEFORMED WELDED STEEL WIRE FABRIC: PER ASTM A497; SIZE AND LOCATION AS INDICATED ON THE STRUCTURAL DRAWINGS.

I. BAR AND WELDED WIRE FABRIC SUPPORTS: BOLSTERS, CHAIRS, SPACERS AND OTHER DEVICES FOR SPACING, SUPPORTING AND FASTENING REINFORCEMENT IN PLACE.

I. MANUFACTURED FROM STEEL, WIRE, PLASTIC OR PRECAST CONCRETE THAT IS OF GREATER COMPRESSION STRENGTH THAN THE CONCRETE 2. IN COMPLIANCE WITH CRSI RECOMMENDATIONS

WATER-STOP: CONTINUOUS, FLEXIBLE RUBBER WITH FACTORY INSTALLED METAL EYELETS; COMPLY WITH CE CRD-C513; SIZE 9 INCHES BY 3/8 INCHES THICKNESS; PROTECT FROM RELEASE AGENTS. . MANUFACTURER: GREENSTREAK X. VAPOR BARRIER: REFERENCE DIVISION OT OF THE GENERAL NOTES.

I. EXPANSION AND ISOLATION JOINT FILLER: ASPHALT SATURATED CELLULOSIC FIBER IN COMPLIANCE WITH ASTM DITSI; WITH REMOVABLE CAP FOR SEALANT PLACEMENT. m. SEALANT: REFERENCE DIVISION OF THE GENERAL NOTES.

n. CURE AND SEAL: REFERENCE THIS DIVISION OF THE GENERAL NOTES. o. ALL REINFORCEMENT SHALL BE FREE OF OIL, SCALE, DIRT, RUST AND OTHER DEBRIS THAT WOULD REDUCE OR DESTROY BOND WITH THE CONCRETE.

a. COMPLY WITH THE REQUIREMENTS OF ASTM C94 AND ACI 304R. b. WHEN AMBIENT AIR TEMPERATURE IS BETWEEN 85 DEGREE F AND 90 DEGREES F, REDUCE MIXING

AND DELIVERY TIME FROM I-I/2 HOURS TO 75 MINUTES. c. WHEN AMBIENT AIR TEMPERATURE IS ABOVE 90 DEGREES F, REDUCE MIXING AND DELIVERY TIME to 60 minutes.

d. WHEN AMBIENT AIR TEMPERATURE HAS FALLEN, OR IS EXPECTED TO FALL BELOW 40 DEGREES F, AND BEFORE MIXING, UNIFORMLY HEAT WATER AND AGGREGATES AS REQUIRED TO OBTAIN A CONCRETE MIXTURE TEMPERATURE OF NOT LESS THAN 50 DEGREES F AND NOT MORE THAN 80 DEGREES F AT POINT OF PLACEMENT. DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE, FROST OR SNOW. DO NOT USE CALCIUM CHLORIDE, SALT OR OTHER MATERIALS CONTAINING ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS. DO NOT USE SET-CONTROL

ADMIXTURES UNLESS OTHERWISE ACCEPTED IN MIX DESIGN. e. DELETE THE REFERENCES FOR ALLOWING ADDITIONAL WATER TO BE ADDED TO THE BATCH FOR

MATERIALS WITH INSUFFICIENT SLUMP. READY-MIX SUPPLIER IS TO PROVIDE A BATCH TICKET FOR EACH LOAD TO THE INDEPENDENT TESTING AGENCY FIELD TECHNICIAN AT THE TIME OF DELIVERY.

DESIGN, CONSTRUCT, ERECT, MAINTAIN AND REMOVE FORMS AND RELATED STRUCTURES FOR

CAST-IN-PLACE CONCRETE WORK IN COMPLIANCE WITH ACI 347. a. FORMWORK SHALL SUPPORT VERTICAL, LATERAL, STATIC AND DYNAMIC LOADS THAT MIGHT BE APPLIED UNTIL CONCRETE STRUCTURE CAN SUPPORT SUCH LOADS. CONSTRUCT FORMWORK SO

CONCRETE MEMBERS AND STRUCTURES ARE OF CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION. MAINTAIN FORM-WORK CONSTRUCTION TOLERANCES. b. MATERIALS I. SMOOTH CONCRETE: FORM FACING PANELS SHALL PROVIDE TRUE, CONTINUOUS SMOOTH

SURFACE; LARGEST PRACTICAL SIZE TO MINIMIZE JOINTS. 2. ROUGH CONCRETE: PLYWOOD, LUMBER, METAL OR OTHER APPROVED MATERIAL

3. CYLINDRICAL COLUMNS, PIERS, OTHER SUPPORTS: METAL, GLASS FIBER REINFORCED PLASTIC, PAPER OR FIBER TUBES: OF SUFFICIENT THICKNESS TO RESIST CONCRETE LOADS WITHOUT 4. CHAMFER STRIPS: METAL, LUMBER, PVC OR RUBBER: MINIMUM SIZE 3/4 INCHES BY 3/4 INCHES. 5. FORM RELEASE AGENT: COMMERCIALLY FORMULATED MATERIAL THAT WILL NOT BOND WITH,

STAIN OR ADVERSELY AFFECT CONCRETE SURFACES NOR AFFECT SUBSEQUENT TREATMENTS OF CONCRETE SURFACES; SHALL INCLUDE RUST INHIBITING AGENTS WHEN USED ON METAL FORMS; COAT CONTACT SURFACES OF FORM-WORK BEFORE PLACING REINFORCEMENT.

0313. TOLERANCES: IN COMPLIANCE WITH ACI IIT, ICC/ANGI IIT.I AND FLOOR COVERING MANUFACTURER. a. UNLESS OTHERWISE INDICATED OR SPECIFIED BY THE FLOOR COVERING MANUFACTURER, THE SUBSTRATE FOR FLOOR COVERINGS SHALL BE STEEL TROWELED AND LEVEL TO A TOLERANCE OF 1/8 INCH IN A TEN (10) FOOT RADIUS.

0314. COLD WEATHER PLACEMENT

a. COMPLY WITH THE REQUIREMENTS OF ACI 306. b. PROTECT WORK FROM PHYSICAL DAMAGE OR REDUCED STRENGTH THAT COULD BE CAUSED BY FROST, FREEZING ACTIONS OR LOW TEMPERATURES.

c. DO NOT PLACE CONCRETE ON FROZEN SUBSTRATE OR SUBBASE COURSE. 0315. HOT WEATHER PLACEMENT

a. COMPLY WITH THE REQUIREMENTS OF ACI 305.

b. COOL INGREDIENTS BELOW 90 DEGREES F BEFORE MIXING TO MAINTAIN CONCRETE TEMPERATURES AT TIME OF PLACEMENT. c. MIXING WATER MAY BE CHILLED OR CHIPPED ICE MAY BE USED TO CONTROL THE CONCRETE

TEMPERATURE PROVIDED THE WATER EQUIVALENT OF THE ICE IS CALCULATED IN THE TOTAL AMOUNT OF MIXING WATER.

d. COVER REINFORCING STEEL WITH WATER-SOAKED BURLAP IF IT BECOMES TOO HOT. THE STEEL TEMPERATURE SHALL NOT EXCEED THE AMBIENT AIR TEMPERATURE IMMEDIATELY BEFORE EMBEDMENT IN CONCRETE. e. THOROUGHLY WET FORMS BEFORE PLACING CONCRETE.

F. DO NOT USE RETARDING ADMIXTURES UNLESS OTHERWISE ACCEPTED IN MIX DESIGN.

0316. SLUMP LIMITS: PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT POINT OF PLACEMENT.

a. RAMPS AND SLOPING SURFACES: NOT MORE THAN THREE INCHES b. SLABS-ON-GRADE: NOT LESS THAN ONE INCH, AND NOT MORE THAN THREE INCHES. c. OTHER CONCRETE: NOT LESS THAN ONE INCH, AND NOT MORE THAN FOUR INCHES.

d. IF SUPER PLASTICIZER IS USED, INITIAL SLUMP SHALL BE TWO TO THREE INCHES, INCREASED TO EIGHT INCHES MAXIMUM AFTER FIELD ADDITION OF THE SUPER PLASTICIZER.

0317. INTERIOR CONCRETE FINISH AND TOLERANCE

e. QUARRY TILE: FLOAT FINISH; CLASS B TOLERANCE.

a. IN COMPLIANCE WITH ASTM F710, ACI 117, ACI 302, ICC/ANSI 117.1, ANSI 108.01 AND TESTED IN ACCORDANCE WITH ASTM EI155

b. STAIN OR NO COVERING: STEEL TROWEL FINISH; CLASS A TOLERANCE. c. RESILIENT FLOOR COVERING: STEEL TROWEL FINISH: CLASS A TOLERANCE. d. CARPET: STEEL TROWEL FINISH; CLASS A TOLERANCE.

e. ADDING WATER TO THE MIX IN ORDER TO CORRECT SLUMP IS PROHIBITED.

f. NOT USED. q. SPECIFIED OVERALL VALUE: F(f)35/F(I)25; VERIFY WITH FLOOR-COVERING MANUFACTURER. i. MINIMUM LOCAL VALUE; FLAT; 3/5 OF SPECIFIED OVERALL VALUE.

FLOOR SURFACE CLASSIFICATION USING MANUAL STRAIGHTEDGE METHOD MAXIMUM GAP, 90 PERCENT COMPLIANCE, SAMPLES NOT TO EXCEED: FLAT; I/4 INCH 2. MAXIMUM GAP, IOO PERCENT COMPLIANCE, SAMPLES NOT TO EXCEED: FLAT; 3/8 INCH

0318. CONSTRUCTION JOINTS ARE PERMITTED ONLY WHERE INDIGATED, DETAILED AND AS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE REINFORCED AND KEYWAYED.

a. LOCATE AND INSTALL CONSTRUCTION JOINTS, WHICH ARE NOT SHOWN ON THE DRAWINGS, SO AS

NOT TO IMPAIR THE STRENGTH AND APPEARANCE OF THE STRUCTURE AS ACCEPTABLE TO I. PLACE CONSTRUCTION JOINTS AT THE END OF POURS AND AT LOCATIONS WHERE PLACEMENT OPERATIONS ARE STOPPED FOR A PERIOD OF MORE THIRTY (30) MINUTES EXCEPT WHERE SUCH POURS TERMINATE AT EXPANSION JOINTS.

2. USE STANDARD METAL KEYWAY SECTION FORM 3. PROVIDE KEYWAYS AT LEAST I-I/2 INCH DEEP IN CONSTRUCTION JOINTS IN SLABS. 4. LOCATE CONSTRUCTION JOINTS IN SLABS-ON-GROUND, SO AS TO DIVIDE INTO AREAS NOT IN EXCESS OF 4000 SQ. FT. (MAXIMUM DISTANCE OF 75 FEET IN ONE DIRECTION), UNLESS OTHERWISE ACCEPTED BY THE OWNER'S REPRESENTATIVE. CONFORM TO SLAB PLACEMENT

DIAGRAMS OR PATTERN LAYOUTS FOR PLACEMENT, WHERE SHOWN. b. EXPANSION JOINTS I. PROVIDE PRE-MOLDED JOINT FILLER FOR EXPANSION JOINTS ABUTTING CONCRETE CURBS (EXCEPT) IN INTEGRAL WORK AND CURB), CATCH BASINS, MANHOLES, INLETS, STRUCTURES, AND OTHER FIXED OBJECTS.

2. SET AND SECURE CONTINUOUS EXPANSION JOINTS WHERE EDGE OF SLAB ABUTS VERTICAL 3. LOCATE EXPANSION JOINTS AT 30 FEET O.C. FOR WALKS AND CURBS, UNLESS OTHERWISE

4. FURNISH JOINT FILLERS IN ONE-PIECE. EXTEND JOINT FILLERS FUL-WIDTH AND DEPTH OF JOINT, FLUSH WITH FINISHED SURFACE.

CONTROL/CONTRACTION JOINTS IN INTERIOR SLABS-ON-GRADE I. PROVIDE CONTROL JOINTS IN SLABS-ON-GRADE TO FORM PANELS OR PATTERNS. USE INSERTS 1/5 TO 1/4 OF SLAB DEPTH, UNLESS OTHERWISE INDICATED.

a) 4 IN. SLAB THICKNESS: MINIMUM EIGHT (8) FEET CENTER TO CENTER, MAXIMUM TEN (10) FEET CENTER TO CENTER. b) 6 IN. SLAB THICKNESS: MINIMUM TWELVE (12) FEET CENTER TO CENTER, MAXIMUM FIFTEEN (15)

FEET CENTER TO CENTER. 2. AT CONTRACTOR'S OPTION, CONTROL JOINTS MAY BE PRODUCED BY SAW CUTS 3/4 TO I-INCH DEEP, USING POWERED CUTTERS, AS SOON AS CONCRETE HAS CURED SUFFICIENTLY TO CARRY THE MACHINE WEIGHT WITHOUT CAUSING SURFACE BLEMISHES.

0320. FINISH OF FORMED SURFACES a. ROUGH FORM FINISH (RIFM-FN): FOR FORMED CONCRETE SURFACES NOT EXPOSED-TO-VIEW IN THE FINISH WORK OR BY OTHER CONSTRUCTION, UNLESS OTHERWISE SHOWN OR SPECIFIED. b. SMOOTH FORM FINISH (SMFm-Fn): FOR FORMED CONCRETE SURFACES NOT EXPOSED-TO-VIEW OR 0336. THAT ARE TO BE COVERED WITH A COATING MATERIAL APPLIED DIRECTLY

c. EXPANSION JOINTS I. PROVIDE PRE-MOLDED JOINT FILLER FOR EXPANSION JOINTS ABUTTING CONCRETE CURBS (EXCEPT IN INTEGRAL WORK AND CURB), CATCH BASINS, MANHOLES, INLETS, STRUCTURES, AND OTHER FIXED OBJECTS.

2. SET AND SECURE CONTINUOUS EXPANSION JOINTS WHERE EDGE OF SLAB ABUTS VERTICAL 3. LOCATE EXPANSION JOINTS AT 30 FEET O.C. FOR WALKS AND CURBS, UNLESS OTHERWISE SHOWN. 4. FURNISH JOINT FILLERS IN ONE-PIECE. EXTEND JOINT FILLERS FUL-WIDTH AND DEPTH OF JOINT,

FLUSH WITH FINISHED SURFACE. 0321. FOR INTERIOR SLABS NOT SCHEDULED TO RECEIVE FLOOR COVERINGS, PROVIDE A NON-PIGMENTED, WAX-RESIN TYPE LIQUID MEMBRANE CURING COMPOUND. COMPOUND SHALL BE IN COMPLIANCE WITH

ASTM C309, TYPE I AND ID, CLASS A. a. MANUFACTURERS: I. KUREZ W VOX; EUCLID CHEMICAL CO.

2. KURE-N-SEAL WB; SONNEBORN BUILDING PRODUCTS. 3. 1300-CLEAR; W.R. MEADOWS. b. APPLICATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS c. VERIFY COMPATIBILITY WITH MOISTURE BARRIERS, LINE MARKING TAPE OR PAINT AND SEALANTS

SPECIFIED IN THE TECHNICAL SPECIFICATIONS. 0322. FOR INTERIOR SLABS SCHEDULED TO RECEIVE FLOOR COVERINGS, PROVIDE A NON-PIGMENTED, VOC COMPLIANT, LIQUID MEMBRANE CURING COMPOUND. COMPOUND SHALL BE IN COMPLIANCE WITH ASTM CI315, TYPE I OR ID, CLASS A.

a. MANUFACTURERS: I. KURE-N-SEAL 25 LV; BASF BUILDING PRODUCTS.

2. SUPER DIAMOND CLEAR VOX; EUCLID CHEMICAL 3. CRYSTAL CLEAR SEAL 1315; LAMBERT b. APPLICATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

c. VERIFY COMPATIBILITY WITH FLOOR COVERING ADHESIVES, MOISTURE BARRIERS AND SEALANTS SPECIFIED IN THE GENERAL NOTES.

0323. NOT USED.

0324. PROVIDE THE FOLLOWING FINISHES: a. FLOAT FINISH FOR AREAS TO BE EXPOSED OR TO RECEIVE CERAMIC AND QUARRY TILE, CLASS 0338. PRECAST CONCRETE VENEER PANELS

b. TROWELED FINISH FOR FLOORS INTENDED FOR RECEPTION OF RESILIENT AND CARPET FLOOR COVERINGS, CLASS A TOLERANCE. c. BROOM FINISH FOR EXTERIOR SLABS, SIDEWALKS AND CURBS, CLASS B TOLERANCE WITH

TOOLED JOINTS AND EDGES WITH RIDGES NOT TO EXCEED 1/8 INCH. "SAW-CUT" JOINTS AT EXTERIOR SLABS ARE NOT ACCEPTABLE. d. NON-SLIP FINISH FOR STAIR TREADS, RAMPS (INTERIOR AND EXTERIOR) AND ELSEWHERE AS

AND/OR STUCCO ARE TO BE PATCHED AND RUBBED FOR A DURABLE, UNIFORM AND SMOOTH APPEARANCE. PREPARE INTERIOR FOR PAINT IN LOCATIONS INDICATED ON THE DRAWINGS.

0325. EXPOSED CONCRETE WALLS NOT SCHEDULED FOR OTHER FINISHES SUCH AS BRICK VENEER, EIFS

0326. CONCRETE TREAD AND STAIR NOSING SHALL BE IN COMPLIANCE WITH ICC AIIT.I. 0327. PROVIDE AND MAINTAIN COVERING MATERIAL OVER ROUGH AND FINISH GRADES THAT PROTECT. AGAINST STAINING DUE TO SPLASH-UP, CONCRETE SURFACES THAT REMAIN EXPOSED AT THE

COMPLETION OF THE WORK.

0328. CONCRETE SURFACE REPAIRS a. PATCHING DEFECTIVE AREAS: REPAIR AND PATCH DEFECTIVE AREAS WITH CEMENT MORTAR IMMEDIATELY AFTER REMOVAL OF FORMS, BUT ONLY WHEN ACCEPTABLE TO THE OWNER OR

OWNER'S REPRESENTATIVE.

0329. PROVIDE HYDRAULIC CEMENT-BASED UNDERLAYMENT AS INDICATED ON THE DRAWINGS. a. MATERIALS I. HYDRAULIC CEMENT-BASED, POLYMER MODIFIED IN ACCORDANCE WITH ASTM C 219: self-leveling product that can be applied to a minimum uniform thickness of 1/4 INCH AND GAN BE FEATHERED TO MATCH ADJACENT FLOOR ELEVATIONS, CEMENT BINDER IN ACCORDANCE WITH ACTIM C 150; RESILIENT-EMULSION ADDITIVE; SHALL ACHIEVE A MINIMUM COMPRESSION STRENGTH OF 4,100 PSI AT 28 DAYS WHEN TESTED IN ACCORDANCE WITH ASTM

> 2. AGGREGATE: WELL GRADED; WASHED; I/8 TO I/4 INCH; AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER. 3. COARSE SAND: AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER.

5. REINFORGEMENT: FOR USE OVER WOOD SUBSTRATE; GALVANIZED METAL LATH OR OTHER CORROSION RESISTANT PRODUCT AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER; 6. PRIMER: AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER FOR THE SUBSTRATE

7. CORROSION RESISTANT COATING: AS RECOMMENDED BY THE UNDERLAYMENT MANUFACTURER FOR METAL SUBSTRATES. b. TO PREVENT TELEGRAPHING THROUGH THE UNDERLAYMENT, TREAT ALL NON-MOVING SUBSTRATE

CRACKS PER THE UNDERLAYMENT MANUFACTURER'S WRITTEN INSTRUCTIONS.

c. FILL SUBSTRATE VOIDS TO PREVENT LEAKAGE. d. APPLICATION ON CONCRETE SUBSTRATE I. MECHANICALLY REMOVE, IN ACCORDANCE WITH THE UNDERLAYMENT MANUFACTURER'S WRITTEN INSTRUCTIONS, LAINTANCE, GLAZE, EFFLORESCENCE, CURING COMPOUNDS, FORM RELEASE AGENTS, OIL, DUST, DIRT, GREASE AND OTHER CONTAMINATES THAT MAY INTERFERE WITH THE

BONDING OF THE UNDERLAYMENT. 2. PERFORM AN ANIMOROUS GALCIUM CHLORIDE TEST IN ACCORDANCE WITH ASTM F 1869. PROCEED WITH INSTALLATION AFTER SUBSTRATE DOES NOT EXCEED A MAXIMUM MOISTURE-VAPOR-EMISSION RATE OF 3 LBS. OF WATER PER ONE THOUSAND SQUARE FEET IN

UNDERLAYMENTS AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT. 0330. STEEL REINFORGED CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF CHAPTERS 16 AND 19, OBC, ACI 318 AND THE CONCRETE REINFORCING STEEL INSTITUTE (CRSI) HANDBOOK.

FIVE YEARS OF DOCUMENTED EXPERIENCE WITH THE APPLICATION OF CEMENT-BASED

e. THE INSTALLING CONTRACTOR SHALL BE MANUFACTURER APPROVED AND HAVE NO LESS THAN

a. CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH EARTH: 3 INCHES. b. No. 6 THROUGH No. 8 EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: 2 INCHES c. No. 5, W3I WIRE, D3I WIRE OR SMALLER EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: I-I/2

0332. UNLESS OTHERWISE SPECIFIED, INSTALL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS

0331. GROUND AND BOND STEEL REINFORCEMENT IN ACCORDANCE WITH NFPA 70.

AND TENSION TIES: 1-1/2 INCHES.

d. NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: I. No. 14 AND No. 18 IN SLABS, JOISTS AND WALLS: 1-1/2 INCHES. 2. No. II AND SMALLER IN SLABS, JOISTS AND WALLS: 3/4 INCHES. 3. ALL REINFORCEMENT, STIRRUPS, TIES, SPIRALS AND HOOPS IN BEAMS, COLUMNS, PEDESTALS

0333. INSTALL ITEMS FURNISHED UNDER OTHER DIVISIONS OF THE GENERAL NOTES. a. SLEEVES FOR PLUMBING PIPING, FIRE SUPPRESSION PIPING, ELECTRICAL CONDUITS, CABLES,

LOW-VOLTAGE WIRING AND HVAC DUCTING AND PIPING.

b. ANCHOR BOLTS AND OTHER HOLD-DOWN DEVICES. c. EMBEDS FOR STRUCTURAL STEEL WORK.

d. EMBEDS FOR COLD-FORMED METAL JOIST FRAMING WORK. e. HOLLOW METAL FRAMES. f. SLEEVES IN RETAINING WALLS AND EXTERIOR PIER FOUNDATIONS FOR FENCE AND SIGN POSTS.

q. NOT USED. 0334. PROVIDE FORMED OPENINGS FOR ITEMS FURNISHED UNDER OTHER DIVISIONS OF THE GENERAL NOTES.

a. HVAC DUCTING AND PIPING.

b. STEEL COLUMNS. c. STEEL BEAMS. d. ELECTRICAL CONDUIT

e. CABLES F. LOW-VOLTAGE WIRING. a. PLUMBING PIPING. h. FIRE SUPPRESSION PIPING

. COLD-FORMED METAL JOIST FRAMING. HOLLOW METAL FRAMES. k. Not used. I. NOT USED.

0335. CONCRETE CURING AND PROTECTION a. PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES AND MAINTAIN DRYING AT A RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD OF TIME NECESSARY FOR HYDRATION OF CEMENT AND PROPER HARDENING.

b. START INITIAL CURING AS SOON AS FREE WATER HAS DISAPPEARED FROM CONCRETE SURFACE AFTER PLACING AND FINISHING. c. BEGIN FINAL CURING PROCEDURES IMMEDIATELY FOLLOWING INITIAL CURING AND BEFORE

CONCRETE HAS DRIED, CONTINUE IN ACCORDANCE WITH ACI 301 AND ACI 308 PROCEDURES.

d. MOISTURE CURING: UTILIZING WATER-FOG SPRAY, KEEP CONCRETE SURFACE CONTINUOUSLY WET

BY COVERING WITH POTABLE WATER: COVER CONCRETE SURFACE WITH SPECIFIED ABSORPTIVE COVER, THOROUGHLY SATURATING COVER WITH POTABLE WATER AND KEEPING CONTINUOUSLY WET; 12 INCH LAP OVER ADJACENT ABSORPTIVE COVERS. e. CURING CONCRETE WITH EARTH, SAND, SAWDUST OR STRAW IS PROHIBITED.

PROVIDE TERMITE SOIL TREATMENT UNDER BUILDING SLABS-ON-GRADE (INCLUDING ATTACHED), AND BUILDING FOOTINGS; GRAWLSPACES; AND THE ENTIRE PERIMETER OF INTERIOR FOUNDATION WALLS; COLUMN FOOTING, PIERS AND SLAB PENETRATIONS; WITH CHEMICALS PER U. S. DEPARTMENT OF AGRICULTURE (USDA) RECOMMENDATIONS CONTAINED IN USDA H&G BULLETIN No. 64. a. THE INSTALLING CONTRACTOR SHALL BE A LICENSED, CERTIFIED SPECIALIST AND HAVE NO LESS

THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH TERMITE SOIL TREATMENT AND SIMILAR IN

SIZE AND SCOPE TO THIS PROJECT. o. UPON COMPLETION OF THE WORK, THE INSTALLING CONTRACTOR SHALL FURNISH A SOIL TREATMENT APPLICATION REPORT THAT IS TO INCLUDE THE FOLLOWING INFORMATION

. DATE AND TIME OF APPLICATION. 2. MOISTURE CONTENT OF THE SOIL BEFORE APPLICATION. 3. BRAND AND MANUFACTURER OF THE TERMITICIDE. 4. QUANTITY (UNDILUTED) USED.

CONTRACTOR AND APPLICATOR, CERTIFYING THE FOLLOWING:

5. DILUTION, METHOD AND RATE OF APPLICATION.

6. APPLICATION AREAS. WATER SOURCE USED FOR DILUTION c. UPON COMPLETION OF THE WORK, THE INSTALLING CONTRACTOR SHALL FURNISH A NON-CANCELABLE, TRANSFERABLE, MANUFACTURER'S WRITTEN WARRANTY, SIGNED BY THE

I. SOIL TREATMENTS HAVE BEEN PERFORMED IN ACCORDANCE WITH THE MANUFACTURER AND THE ABOVE REQUIREMENTS. 2. EFFECTIVENESS OF THE TREATMENT WILL CONTINUE FOR NOT LESS THAN FIVE YEARS

AFTER TREATMENT DATE. 3. ALL EVIDENCE OF TERMITE INFESTATION WITHIN THE WARRANTY PERIOD SHALL BE RE-TREATED IN ACCORDANCE WITH THE ABOVE REQUIREMENTS AND AT NO ADDITIONAL COST

4. DAMAGE TO ALL STRUCTURES CAUSED BY TERMITES WITHIN THE WARRANTY PERIOD WILL BE CORRECTED WITHOUT COST TO THE OWNER. d. THE CONTRACT FOR SOIL TREATMENT SHALL INCLUDE A MAINTENANCE ACREEMENT THAT PROVIDES FOR INSPECTIONS AND RE-TREATMENTS FOR TWELVE MONTHS FOLLOWING THE DATE OF

FINAL ACCEPTANCE BY THE OWNER OR OWNER'S REPRESENTATIVE. *0*331. Utilize Class III concrete for all interior pipe-filled steel bollards where indicated on

THE DRAWINGS.

AND MNL-123.

THE CONTRACT

INSTALLATION

MATERIALS TO INCLUDE

1. THE NEW PREGAST PANELS INFILLING THE MASONRY OPENING CREATED BY THE REMOVAL OF THE EXISTING THRU-WALL HVAC UNITS.

2. THE GAP IN THE VENEER CREATED BY THE REMOVAL OF EXISTING DETERIORATED WINDOW LINTELS AND THREE COURSES OF BRICK ABOVE EXISTING WINDOWS. ALL PREGAST CONCRETE WORK TO COMPLY WITH ACI 318, ASTM A 36 AND A 36M, ASTM A 185, ASTM A 416 AND A 416M, ASTM C 150, ANS DI.1, ANS DI.4, PCI MNL-116S, PCI MNL-120, PCI

SIZE COMPONENTS TO WITHSTAND DESIGN LOADS IN A RESTRAINED VERTICAL ASSEMBLY OF 50 PSF, WITH MAX ALLOWABLE DEFLECTION OF 1/360 OF SPAN. MFR TO DESIGN PANELS TO ACCOMMODATE CONSTRUCTION TOLERANCES AND CLEARANCES OF OPENINGS. SUBMIT SHOP DRAMINGS ILLUSTRATING EXPOSED FACE DESIGN PER THE ARCHITECT'S DESIGN DRAWINGS, PANEL LAYOUT, FABRICATION DETAILS, UNIT IDENTIFICATION MARKS, REINFORGEMENT, PANEL TO PANEL AND PANEL TO SUBSTRATE CONNECTION DETAILS, EMBEDDED ADJUSTABLE MASONRY ANCHORS, SUPPORT ITEMS, DIMENSIONS, OPENINGS, SHIMS,

AND RELATIONSHIP TO SURROUNDING EXISTING MATERIALS. INDICATE DESIGN LOADS, CAMBERS, BEARING REQMTS AND ALL OTHER APPLICABLE CONDITIONS. I. INCLUDE ALL PLATES, ANGLES, ITEMS CAST INTO CONCRETE, AND INSERTS CONFORMING TO

2. Carbon Steel Conforming to ASTM A 36 AND A 36M. FABRICATION PROCEDURE TO CONFORM TO PCI MNL-1165.

I. ENSURE REINFORGING STEEL, ANCHORS, INSERTS, PLATES, ANGLES AND OTHER GAST-IN

. Tension reinforcement tendons as required to achieve design Load Criteria. 3. BEARING SURFACES SHALL HAVE A SMOOTH FORMED SURFACE OR A STEEL TROWELED 4. SURFACES THAT ARE EXPOSED TO VIEW SHALL HAVE WHITE SUCAR CUBE FINISH, WITH

MEMBERS HAVING UNIFORM COLOR, ALL ARE TO APPEAR AS WHITE LIMESTONE.

ITEMS ARE EMBEDDED AND LOCATED AS INDICATED ON SHOP DRAWINGS.

5. PROVIDE RECESSED REVEALS IN PATTERNS AND SIZES SHOWN ON THE DRAWINGS. VERTICAL SURFACE WITHIN THE REVEAL TO BE FACTORY COATED WITH BLACK LITHICHROME PER MFR'S INSTRUCTIONS. PRIOR TO FABRICATION SUBMIT 12"x12" SAMPLE WITH LITHICHROMED RECESSED

REVEAL SHAPED AS DETAILED IN THESE DRAWINGS FOR INSTALLED PANELS. 6. FIELD MEASURE ALL MASONRY WALL OPENINGS AND VENEER GAPS PRIOR TO PANEL 7. NON-CONFORMING, CHIPPED. DISCOLORED OR OTHERWISE DAMAGED PANELS WILL BE RETURNED TO MFR AND REPLACED WITH PANELS PER SPECS AT NO ADDITIONAL COST TO

5. WHITE PORTLAND CEMENT, CONFORMING TO ASTM C 150, TYPE I. 5. Aggregate, Sand, Water, Admixtures to be determined by pregast fabricator as APPROPRIATE TO DESIGN REQMTS AND PCI MNL-116S. PRODUCT WILL BE EXPOSED TO THE ELEMENTS, SO IT WILL REQR AN AIR-ENTRAINING ADMIXTURE.

3. REINFORGING STEEL TO BE UNFINISHED; ASTM A615 AND A 615M GRADE 60 (420).

. Welded Steel Wire Fabric; astm a 185 plain type, in flat sheets, unfinished.

6.I. CONCRETE SHALL TEST AT LEAST 4000 PSI AT 28 DAYS. 7. TENGIONING STEEL TENDONS; ASTM A 416 AND 416M, GRADE 250 (1725), SEVEN-WIRE STRANDED STEEL CABLE, LOW-RELAXATION TYPE, FULL LENGTH WITHOUT SPLICES,

LIFT PANELS USING ONLY PREDETERMINED LIFTING POINTS. 2. PROVIDE TEMPORARY BRACING IN PLACE UNTIL FINAL CONNECTIONS ARE COMPLETED. 3. PROTECT PANELS FROM STAINING. 4. UTILIZE MFR PROVIDED BEARING SPACERS FOR CONSISTENT MORTAR JOINTS. 5. USE NON-SHRINKING GROUT IN GROUTED JOINTS AS SOON AS PRACTICABLE AND BEFORE

STANDARDS FOR POLYSULFIDE BASE BUILDING SEALING COMPOUNDS FOR BUILDING 1. CLEAN ALL DIRT OR BLEMISHES FROM EXPOSED SURFACES PER MER'S INSTRUCTIONS.

6. SEAL EXPOSED JOINTS WITH THIOKOL CAULDING COMPOUND, MEETING AMERICAN

THE LOADS ARE SUFFICIENT TO OVERSTRESS SHIMS.

SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL SPECIFICATIONS AND INFORMATION. WHERE THOSE STRUCTURAL SPECS CONFLICT WITH THE SPECS ON THIS SHEET, IN ALL CASES THE MOST STRINGENT SHALL

DIVISION 4 - MASONRY

. TIES

0400. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE GENERAL NOTES FOR ITEMS WITHIN THIS LIST THAT PERTAIN TO THIS PROJECT

a. FACE BRICK UNITS; VENEER SYSTEM

b. CONCRETE MASONRY UNITS c. STONE MASONRY VENEER SYSTEM

d. CULTURED STONE VENEER SYSTEM e. THIN BRICK VENEER SYSTEM

f. SPLIT FACE BLOCK SYSTEM 1. MORTARS . REINFORCEMENT

. PENETRATION DETAILS m. LINTELS n. WEEP o. SEALANT p. GROUT INJECTION MIX DESIGN

WATER-RESISTIVE BARRIER

. FLASHING AND DETAILS

q. CLEANING SOLUTION 0402. ALL MASONRY WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTERS 16 AND 21, OBC, THE AMERICAN CONCRETE INSTITUTE, COMMITTEE 530, THE NATIONAL CONCRETE MASONRY

ASSOCIATION (NCMA) TEK BULLETINS AND THE BRICK INDUSTRY ASSOCIATION (BIA) TECHNICAL NOTES. 0403. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION

a. DIVISIONS OO AND OI OF THE GENERAL NOTES. b. BRICK INDUSTRY ASSOCIATION (BIA) TECHNICAL NOTES I, HOT AND COLD WEATHER CONSTRUCTION

2. 7, WATER PENETRATION RESISTANCE - DESIGN AND DETAILING 3. 7A, WATER PENETRATION RESISTANCE - MATERIALS

4. 7B, WATER PENETRATION RESISTANCE - CONSTRUCTION AND WORKMANSHIP 5. 8, MORTARS FOR BRICK WORK 6. 18A, ACCOMMODATING EXPANSION OF BRICK WORK

7. 20, CLEANING BRICK WORK 8. 28, BRICK VENEER/WOOD STUD WALLS 9. 28B, BRICK VENEER/METAL STUD WALLS

10. 28C, THIN BRICK VENEER c. NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA) TEK MANUALS 1. 3-IC, ALL-WEATHER CONCRETE MASONRY CONSTRUCTION 2. 3-2A, GROUTING CONCRETE MASONRY WALLS

3. 3-8A, CONCRETE MASONRY CONSTRUCTION 4. 5-9A, CONCRETE MASONRY CORNER DETAILS 5. 5-12, MODULAR LAYOUT OF CONCRETE MASONRY 6. 8-2A, REMOVAL OF STAINS FROM CONCRETE MASONRY

7. 8-4A, CLEANING CONCRETE MASONRY

16. 18-3B CONCRETE MASONRY INSPECTION

8. 9-IA, MORTARS FOR CONCRETE MASONRY 9. 9-4A, GROUT FOR CONCRETE MASONRY 10. 10-1A, CRACK CONTROL IN CONCRETE MASONRY II. 10-2C, CONTROL JOINTS FOR CONCRETE MASONRY WALLS- EMPIRICAL METHOD

12. IO-3, CONTROL JOINTS FOR CONCRETE MASONRY WALLS- ALTERNATIVE ENGINEERED METHOD 13. 10-4, CRACK CONTROL FOR CONCRETE BRICK AND OTHER CONCRETE MASONRY VENEERS 14. 12-2B, JOINT REINFORCEMENT FOR CONCRETE MASONRY

15. 12-4D, STEEL REINFORCEMENT FOR CONCRETE MASONRY

2. ACI 530.I, SPECIFICATION FOR MASONRY STRUCTURES

17. 18-8B, GROUT QUALITY ASSURANCE . AMERICAN CONCRETE INSTITUTE (ACI) I. ACI 530, BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES

d. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) I. ASTM A240, STANDARD SPECIFICATION FOR CHROMIUM AND CHROMIUM-NICKEL STAINLESS STEEL PLATE, SHEET AND STRIP FOR PRESSURE VESSELS AND GENERAL APPLICATIONS ASTM A95I, STANDARD SPECIFICATION FOR MASONRY JOINT REINFORCEMENT

3. ASTM A653, STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON-ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS 4. ASTM B370, STANDARD SPECIFICATION FOR COPPER SHEET AND STRIP FOR BUILDING CONSTRUCTION

6. ASTM C90, STANDARD SPECIFICATION FOR LOAD-BEARING CONCRETE MASONRY UNITS 7. ASTM C91, STANDARD SPECIFICATION FOR MASONRY CEMENT 8. ASTM CI43, TEST METHOD FOR SLUMP OF HYDRAULIC CEMENT CONCRETE 9. ASTM CI44, STANDARD SPECIFICATION FOR MASONRY MORTAR

5. ASTM C33. STANDARD SPECIFICATION FOR CONCRETE AGGREGATES

IO. ASTM CI5O, STANDARD SPECIFICATION FOR PORTLAND CEMENT II. ASTM C207, STANDARD SPECIFICATION FOR HYDRATED LIME FOR MASONRY ASTM C270, STANDARD SPECIFICATION FOR MORTAR FOR MASONR 13. ASTM C331, STANDARD SPECIFICATION FOR LIGHTWEIGHT AGGREGATES FOR CONCRETE

15. ASTM C476, STANDARD SPECIFICATION FOR MASONRY GROUT 16. ASTM C494, STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE 17. ASTM C847. STANDARD SPECIFICATION FOR METAL LATH

14. ASTM C404. STANDARD SPECIFICATION FOR AGGREGATES FOR MASONRY GROUT

18. ASTM CIO63, STANDARD SPECIFICATION FOR INSTALLATION OF LATHING AND FURRING TO RECEIVE INTERIOR AND EXTERIOR PORTLAND CEMENT-BASED PLASTER 19. ASTM CIO88, STANDARD SPECIFICATION FOR THIN VENEER BRICK UNITS MADE FROM CLAY OR 20.ASTM C1602, STANDARD SPECIFICATION FOR MIXING WATER USED IN THE PRODUCTION OF

HYDRAULIC CEMENT CONCRETE 21. ASTM D226, STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN ROOFING AND WATERPROOFING 22. ASTM FI667, STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES AND

0404. CONSTRUCTION TOLERANCES FOR CONCRETE UNIT MASONRY SHALL CONFORM TO ACI 530.1. a. FOR CONSPICUOUS VERTICAL LINES, DO NOT VARY PLUMB MORE THAN 1/8 INCH IN 10 FEET.

MASONRY MASONRY COUNCIL (AWMC), LATEST EDITION.

OF ANY AND ALL GROUT SPLATTER.

b. FOR CONSPICUOUS HORIZONTAL LINES, DO NOT VARY PLUMB MORE THAN 1/8 INCH IN 10 FEET. c. GOURSES ARE TO BE LEVEL AND JOINTS UNIFORM IN WIDTH. 0405. ENVIRONMENTAL CONDITIONS. a. COLD WEATHER CONSTRUCTION SHALL CONFORM TO THE "RECOMMENDED PRACTICES AND GUIDE

SPECIFICATIONS FOR COLD WEATHER CONSTRUCTION" DEVELOPED BY THE ALL WEATHER

 CONCRETE MASONRY UNITS: DURING PERIODS WHEN TEMPERATURES ARE BELOW 40 DEGREES F. NO MASONRY WORK WILL BE PERFORMED UNLESS THE CONTRACTOR PROVIDES THE MEANS AND METHODS APPROVED BY THE AWMC FOR THE PROTECTION OF MATERIALS AND COMPLETED WORK DURING COLD WEATHER OPERATIONS.

b. ALL MASONRY WORK: DO NOT WORK DURING RAIN UNLESS MATERIALS AND WORK CAN BE FULLY PROTECTED DURING MASONRY OPERATIONS. c. PROTECT THE TOP COURSE OF COMPLETED MASONRY AGAINST WEATHER BY COVERING WITH A STRONG, WEATHERPROOF, NON-STAINING MEMBRANE HELD SECURELY IN PLACE.

a. LAY UP CONCRETE MASONRY AND SPLIT-FACE UNITS IN RUNNING BOND, ENSURING PLUMB, TRUE TO

LINE AND LEVEL DIMENSIONED AS INDIGATED ON THE DRAWINGS, ALL VISIBLE JOINTS SHALL BE FORMED WITH A ROUND TOOL OR TO MATCH ADJACENT EXISTING WORK. b. VERTICAL COLLAR JOINTS TO BE FILLED SOLID WITH MORTAR. c. UNLEGS OTHERWISE SPECIFIED, PROVIDE 100 PERCENT SOLID BEARING (MINIMUM THREE COURSES)

UNDER ALL STRUCTURAL COMPONENTS SUCH AS BEAMS, GIRDERS, LINTELS, ETC. d. GROUT FILL CORE SOLID WHERE SHOWN ON THE DRAWINGS. d.I. IF NOT SHOWN ON THE DRAWINGS, GROUT CORES SOLID AROUND ANCHOR BOLTS AND AT CHANGE OF MASONRY WYTHES AND WINDOW SILLS.

d.2. PROTECT FROM AND IMMEDIATELY CLEAN ALL ADJACENT EXPOSED FACES OF MASONRY

e. HOLLOW MASONRY UNITS SHALL BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND

VERTICAL FACE SHELLS. WEBS SHALL BE BEDDED IN ALL COURSES OF PIERS AND PILASTERS, IN

THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE FILLED WITH CONCRETE OR GROUT, SOLID UNITS TO BE LAID WITH FULL HEAD AND BED. F. DO NOT SOAK CONCRETE MASONRY UNITS OR BRICK MASONRY UNITS. AS MASONRY WORK PROCRESSES, BUILD-IN ITEMS SPECIFIED UNDER THIS AND OTHER SECTIONS

INDIGATED ON THE DRAWINGS. SEE ARTICLE 0415.d.7 FOR ADDITIONAL INFO. IF NOT INDIGATED, PROVIDE IN ACCORDANCE WITH NCMA TEK BULLETIN 10-1A. 0408, PROVIDE CRACK CONTROL JOINTS IN FACE BRICK VENEER SYSTEM AS INDICATED. IF NOT

0401. PROVIDE CRACK CONTROL JOINTS IN CONCRETE MASONRY UNIT WALLS AS DETAILED AND WHERE

OF THE GENERAL NOTES. GROUT FILL SOLID AROUND BUILT-IN ITEMS.

INDICATED, PROVIDE IN ACCORDANCE WITH BIA TECHNICAL NOTE ISA.

0409. PROVIDE SOLID MASONRY UNITS OR GROUTED UNITS FOR ALL LINTELS, BEAMS, COLUMNS, JOISTS, PLATES AND ANY OTHER LOAD BEARING MEMBERS.

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426 EAST MAIN STREET LANCASTER, OHIO 43130 phone: (740) 654-4048 facsimile: (740) 654-3009

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Stephen M. Luchtenberg

License No. 8546

Expiration Date: December 31, 2023

STEPHEN

LUCHTENBERG

8546

GENERAL NOTES DIVISION 3 THROUGH **DIVISION 4**

0300. THIS SECTION SUMMARIZES THE REQUIREMENTS AND PROVISIONS FOR THE PREPARATION AND

a. FOOTINGS b. PIERS

f. SLABS-ON-DECK h. Not used.

i. NOT USED.

a. CONCRETE MIX DESIGNS FOR CLASSES I, II, III AND IV.

F. CERTIFICATION FROM ADMIXTURE MANUFACTURER(S) THAT CHLORIDE CONTENT CONFORMS WITH THE GENERAL NOTES SECTION REQUIREMENTS.

a. DIVISIONS OO AND OI OF THESE GENERAL NOTES.

I. ICC/ANSI IIT.I, GUIDELINES FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

SECTION AND THIS SECTION IS DIRECTLY APPLICABLE TO THEM.

d. AMERICAN CONCRETE INSTITUTE (ACI): I. ACI 117, SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS

3. ACI 212, REPORT ON CHEMICAL ADMIXTURE FOR CONCRETE 4. ACI 222R, PROTECTION OF METALS IN CONCRETE AGAINST CORROSION

7. ACI 302, GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION 8. ACI 304R, GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE 9. ACI 305R, GUIDE AND STANDARD SPECIFICATION FOR HOT WEATHER CONCRETING

12. ACI 308.I, SPECIFICATION FOR CURING CONCRETE 13. ACI 311.6. SPECIFICATION FOR READY MIX CONCRETE TESTING SERVICES

e. AMERICAN WELDING SOCIETY (AWS): . MANUAL OF STANDARD PRACTICE

q. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA):

23. ASTM EI155, STANDARD TEST METHOD FOR DETERMINING F(f) FLOOR FLATNESS AND F(I) FLOOR

b. CERTIFIED ACCORDING TO NATIONAL READY MIX CONCRETE ASSOCIATION'S (NRMCA)

WITH ASTM C494.

0308. DO NOT CHANGE SOURCE OF READY-MIX DURING THE COURSE OF THE WORK.

0309. PROVIDE CONCRETE PUMPING AS REQUIRED FOR CONSTRUCTABILITY.

a. SUBMITTALS I. MFR'S CERTIFICATION THAT EACH TYPE OF CONG MASONRY UNIT COMPLIES WITH SPECIFIED

2. PHYSICAL SAMPLES ILLUSTRATING THE TEXTURE AND FULL RANGE OF AVAILABLE COLORS OF SPECIFIED SPLIT FACE AND GROUND FACE BLOCK. 3. MORTAR SAMPLE KIT SHOWING FULL RANGE OF AVAILABLE PIGMENTED MORTAR COLORS.

REQUIREMENTS, INCLUDING TYPE, GRADE, CURING, MOISTURE CONTENT AND PERFORMANCE.

DAVIS COLORS, BAYER, DCS OR APPROVED EQUAL. 4. CLEANING MATERIALS THAT ARE NOT HARMFUL TO MASONRY WORK OR ADJACENT MATERIALS PER BLOCK MFR'S RECOMMENDATIONS. PROSOCO OR APPROVED EQUAL.

STATEMENT ON G.G.'S LETTERHEAD OF MASONRY INSTALLER'S CAPABILITIES. INSTALLER MUST HAVE AT LEAST TEN YEARS EXPERIENCE ON PROJECTS OF SIMILAR SCOPE. INCLUDE LIST OF AT LEAST THREE PROJECTS OF SIMILAR SCOPE COMPLETED IN THE LAST THREE YEARS, ALONG WITH NAMES AND CURRENT CONTACT INFO OF SAID PROJECT'S OWNERS AND

6. ON G.C.'S LETTER/IEAD SUBMIT G.C.'S TYPEWRITTEN PLAN FOR HOT AND COLD-WEATHER

INSTALLATION OF MASONRY PER ACI 530.1 / ASCE 6 / TMS 602. b. INSTALL IN STRICT ACCORDANCE WITH ACI STANDARDS 530 AND 530.I AND WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, DETAILS AND SPECIFICATIONS. . Sample Panel - See exterior elevation general notes on sheet as.i

I. BEFORE STARTING WORK, BUILD 4'-O" LONG SAMPLE PANEL MOCK UP WITH 16" CORNER RETURN 0414. MISCELLANEOUS MASONRY ACCESSORIES. AT ONE END. PANEL TO BE COMPOSED OF ONE COURSE OF SPLIT FACE BLOCK ABOVE ONE COURSE OF CROUND FACE BLOCK ABOVE TWO COURSES OF SPLIT FACE BLOCK, ALL IN MASONRY AND MORTAR COLORS AS SELECTED BY THE ARCHITECT

I.I. INSTALL HORIZONTAL JOINT REINFORCING EVERY OTHER COURSE 1.2. INSTALL VERTICAL CONTROL JOINT AT MIDPOINT OF 4' LEG.

I.3. NSTALL WITH CONCAVE TOOLED JOINTS, ILLUSTRATING MASON'S STANDARD OF WORKMANSHIP AS A STANDARD FOR THE NEW BUILDING.

I.4. SAMPLE PANEL TO BE POSITIONED AND LOCATED WHERE IT'S FACE AND CORNER RETURN WILL REGEIVE FULL SUNLIGHT AND WHERE IT WILL REMAIN UNDAMAGED AND UNALTERED DURING CONSTRUCTION. VERIFY LOCATION WITH ARCHITECT AND OWNER. d. Manufacturer and Product:

 MIDWEST MANUFACTURING'S KEYSTONED, SEGMENTAL, HOLLOW CORE, REAR-LIPPED, 6"TXI2"DXI7"W SPLIT FACE BLOCK WITH SOLID, REAR LIPPED 4" HIGH CAP UNITS OR APPROVED EQUAL. COLOR AS SELECTED FROM MFR'S STANDARD RANGE.

e. MATERIALS: I. ALL MASONRY UNITS TO BE FROM ONE MANUFACTURING RUN, FROM THE SAME SOURCE, FROM

2. UNIT COMPRESSIVE STRENGTH; 1900 PSI PER ASTM C90 3. INSTALL BULLNOSE UNITS AT ALL EXPOSED INTERIOR CORNERS.

4. SPLIT FACE AND GROUND FACE ENDS AND CORNER UNITS TO MATCH THE STRETCHER UNIT IN

MATCH THE STRETCHER UNIT IN EVERY REGARD, USE AT THE BOTTOM OF DUCT PENETRATIONS. 6. LINTELS: GALY STEEL ANGLES AS SCHEDULED WITH 4" WYTHE MASONRY COURSING AND COPPER FLASHING AS DETAILED.

7. HORIZONTAL REINFORCEMENT: TRUSS TYPE; HOT DIP GALVANIZED; NINE GAUGE DEFORMED WIRE; CONTINUOUS RECTANCULAR TAB TIE; COMPLY WITH ASTM A82; MINIMUM LAP SIX INCHES; SPACED AS INDICATED ON THE DRAWINGS

8. VERTICAL REINFORCEMENT: SIZE AND LOCATION AS INDICATED ON THE DRAWINGS; COMPLY WITH ASTM AGIS GRADE 60; REFER TO DIVISION 05 OF THE MFR'S TECHNICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

 GONTROL JOINT STABILIZING ANCHOR; DUR-O-WAL D/A 2200 OR EQUAL. INSTALL EVERY OTHER COURSE AT EACH VERTICAL MASONRY CONTROL JOINT. SEE EXTERIOR ELEVATIONS AND FLOOR PLANS FOR CONTROL JOINT LOCATIONS IO. MORTAR: TYPE N AND S; MINIMUM COMPRESSION STRENGTH OF 18,000 psi; PORTLAND CEMENT

AND LIME MIX COMPLYING WITH ASTM 6150 AND ASTM 6207; AGGREGATE COMPLYING WITH ASTM CI44; COLOR AS SELECTED BY ARCHITECT. IO.I. MORTAR SHALL BE MEASURED AND BATCHED EITHER BY VOLUME OR WEIGHT. SHOVEL

COUNT MEASUREMENT IS NOT ACCEPTABLE. 10.2. USE WATER REPELLENT MORTAR ADMIXTURE AS RECOMMENDED BY MFR.

II. POTABLE WATER: FRESH AND FREE OF ACIDS, ALKALIES AND FOREIGN OR ORGANIC 12. MASONRY FLASHING: PROVIDE 7 OZ., BEIGE, SELF-ADHERING COMPOSITE COPPER FABRIC

FLASHING WITH INTEGRAL POLYETHELENE FILM ON BOTH SIDES. CUT TO \$" EXPOSED AT EXTERIOR FOR DRIP EDGE. HOHMANN & BARNARD OR EQUAL. INSTALL IN ACCORDANCE WITH 13. SEALANT: REFER TO DIVISION OF OF THE TECHNICAL SPECIFICATIONS, AND IN ACCORDANCE

14. CLEANING SOLUTION: AS RECOMMENDED BY THE MANUFACTURER. q. INSTALLATION

I. DELIVER, STORE AND HANDLE MASONRY MATERIALS TO PREVENT DAMAGE AND SOILING. I.I. STORE ON SINGLE STACKED PALLETS ON LEVEL GROUND. PROTECT ALL STORED MATERIALS FROM INCLEMENT WEATHER.

I.2. INSTALLATION OF SOILED AND / OR DAMAGED MATERIALS WILL BE REJECTED. 2. INSTALL IN RUNNING BOND COURSING WITH VERTICAL REBAR AT 24" OC IN CORES FILLED WITH CRUSHED 57s. LAY 3'-O" WIDE CONT STRIP OF GEOGRID FABRIC OVER EVERY COURSE,

EXTENDING 24" BEHIND REAR FACE OF BLOCK. COMPACT 6" LIFTS OF CRUSHED 57s OVER EVERY GEOGRID LAYER. SEE ADDITIONAL INFO ON DETAIL A/AO.3. 3. MAINTAIN MORTAR BED AND HEAD JOINTS 3/8 INCHES THICK. 3.1. IF MASONRY COURSING IS INSTALLED WITH VARYING HORIZONTAL JOINT THICKNESSES, IT

WILL BE REJECTED AND SHALL BE REINSTALLED PROPERLY AT THE CONTRACTOR'S

3.2. STRIKE FLUSH ALL JOINTS FACING PLUMBING CHASES AND FACING FURRED DRYWALL

4. KEEP ALL BLOCK CORES CLEAR AND FREE OF MORTAR CLOCS AND DROPPINGS IN ORDER TO ALLOW FOR INSTALLATION OF REBAR, GROUT AND LOOSE FILL INSULATION AT EXTERIOR

4.I. INSTALL INSULATION MATERIALS AS WORK PROCRESSES, WITH MAXIMUM 4'-O" HIGH LIFTS: 5. IF NECESSARY, PRECONDITION MASONRY MATERIALS TO MAINTAIN MIN 50 DEGREES TEMPERATURE

5.I. DO NOT BUILD ON FROZEN WORK. REMOVE AND REPLACE MASONRY WORK DAMAGED BY 5.2. PROTECT COMPLETED MASONRY WORK FROM FREEZING FOR MINIMUM OF FOUR DAYS:

5.3. MAINTAIN MIN 50 DEGREES ON BOTH SIDES OF NEWLY LAID MASONRY FOR NOT LESS

6. PROVIDE CONSTRUCTION AND EXPANSION JOINTS AS RECOMMENDED BY THE MANUFACTURER; 7. INSTALL THRU WALL MASONRY FLASHING AT FLOOR LEVEL COURSE, ABOVE ALL MASONRY OPENINGS AND BELOW ALL SILLS PER NAMA TEK BULLETING 19-4A AND 19-5A DETAILS TO ENSURE WATER RESISTANT MASONRY CONSTRUCTION. 7.I. EXTEND FLASHING BEYOND ENDS OF LINTELS AND SILLS AT LEAST 4" AND TURN UP ENDS

TO FORM A PAN. SEAL TOP EDGE OF FLASHING ANCHORED TO BACK UP. CAP FLASHING A MINIMUM OF 4" WITH BUILDING PAPER AT FRAMED WALLS WITH SHEATHING. 7.2. LAP FLASHING JOINTS MIN 2" AND ROLL WITH HAND ROLLER.

7.3. INSTALL WEEPS AT MAX 24" ON CENTER HORIZONTALLY IN WALL FIELDS, 16" OC MAX AT

8. INSTALL CROUT AND VERTICAL REBAR AS CALLED FOR IN THE DRAWINGS. 9. INSTALL HORIZONTAL JOINT REINFORGING EVERY OTHER COURSE.

IO. INSTALL VERTICAL CONTROL JOINTS AS DETAILED AND WHERE NOTED ON EXTERIOR II. INSTALL LOOSE FILL INSULATION FULL HEIGHT IN EVERY OPEN BLOCK CORE AT ALL PERIMETER

EXTERIOR WALLS. PERLITE OR APPROVED EQUAL. II.I. PRIOR TO INSTALLING LOOSE FILL INSTALLATION, CONTRACTOR TO ENSURE ALL WEEP HOLES ARE SCREENED AND ALL CONCEALED PIPES AND CONDUITS, ALL RECESSED ELECTRICAL ROUGH-IN BOXES, AND ALL VERTICAL REBARS AND GROUT ARE INSTALLED

IN THE MASONRY WALL AND ALL OTHER HOLES AND OPENINGS IN THE WALL THROUGH WHICH LOOSE FILL INSULATION GAN ESCAPE ARE PERMANENTLY SEALED OR GAULKED. II.2. TAKE ALL PRECAUTIONS NECESSARY TO ENSURE THAT INSTALLED LOOSE FILL INSULATION

REMAINS DRY. 12. INSTALL REINFORCED AND GROUT FILLED BOND BEAMS AS DETAILED.

13. BRAGE UNSUPPORTED AND NEWLY LAID WALLS. MAINTAIN BRAGING IN PLACE UNTIL ROOF STRUCTURE PROVIDES PERMANENT BRACING. 14. Prevent Grout, Mortar and Soil From Staining the Face of Masonry that is to be

REQUIREMENTS.

LEFT EXPOSED. IMMEDIATELY REMOVE ANY GROUT, MORTAR AND SOIL THAT COMES IN CONTACT WITH MASONRY. 15. PROVIDE WATER TIGHT AND AIR TIGHT SEALED EXTERIOR FACE AT THE COMPLETION OF THE WORK. REFERENCE DIVISION OF OF THE SPECIFICATION FOR ADDITIONAL WATERPROOFING

16. MASON IS RESPONSIBLE TO COORDINATE WITH GC AND OTHER SUB CONTRACTOR'S TO LOCATE, SIZE AND SET ITEMS FURNISHED UNDER OTHER DIVISIONS IN THE TECHNICAL

SPECS, INCLUDING BUT NOT LIMITED TO: HOLLOW METAL DOOR FRAMES. GROUT FRAMES SOLID IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS

> STRUCTURAL STEEL, ANCHOR BOLTS AND EMBEDS. 3. CONCEALED ELECTRICAL CONDUIT IN NON-FURRED WALLS AS COURSING PROGRESSES WITHOUT FRACTURING EXPOSED SHELLS. 3.1. GRIND AND CUT UNITS AS REQUIRED FOR RECESSED ELECTRICAL SMITCH AND

WET TO THE POINT THAT FREE WATER DROPS FROM THE SURFACE, MASONRY WORK SHALL BE DAMP CURED FOR AT LEAST 1 DAYS TO PREVENT TOO RAPID DRYING DURING HOT OR DRYING WEATHER AND DRYING WINDS. 0412. AFTER MORTAR IS THOROUGHLY SET AND CURED PER MANUFACTURER'S INSTRUCTIONS, CLEAN EXPOSED CONCRETE MASONRY UNITS AND SPLIT-FACE MASONRY UNITS IN ACCORDANCE WITH NOMA

0411. CURE CONCRETE MASONRY UNITS USING WATER FROM A FOCGING NOZZLE, BUT UNITS SHALL NOT BE

RECEPTACLE BOXES AND SIMILAR ITEMS.

TEK SECTION 8 AND FACE BRICK VENEER IN ACCORDANCE WITH BIA TEK 20. a. PROTECT ADJACENT SURFACES FROM CONTACT WITH ANY CLEANERS. 0413. PROVIDE AND MAINTAIN COVERING MATERIAL OVER ADJACENT ROUGH AND FINISH GRADES IN

ORDER TO PROTECT SURFACES THAT ARE TO REMAIN EXPOSED AT THE COMPLETION OF THE WORK

AGAINST STAINING DUE TO SPLASH-UP.

a. COMPRESSIBLE FILLER STRIPS OF NEOPRENE COMPLYING WITH ASTM D 1056, GRADE 2AI. b. ROUND PLASTIC WEEP/VENT TUBING OF MEDIUM DENSITY POLYETIMLENE, 3/8 INCH O.D. BY 4

c. COTTON OR POLYESTER ROPE WICKING MATERIAL. I/4 TO 3/8 INCH IN DIAMETER, IN LENGTH REQUIRED TO PRODUCE 2 INCH EXPOSURE ON EXTERIOR AND 18 INCHES IN CAVITY BETWEEN

d. GAVITY DRAINAGE MATERIAL, 3/4 INCH THICK, FREE DRAINING MESH, MADE FROM POLYETHYLENE . MANUFACTURERS: I.I. ADVANCED BUILDING PRODUCTS, INC, CAVCLEAR, POLYTITE MANUFACTURING CORP.,

0415. PROVIDE GROUT INJECTION WORK AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN. a. INSTALL IN STRICT ACCORDANCE WITH AN INDEPENDENT PROFESSIONAL ENGINEER SPECIALIZING IN

INJECTION ENGINEERING AND THE MANUFACTURER'S INSTRUCTIONS, DETAILS AND SPECIFICATIONS. b. MATERIAL:

NATURAL HYDRATED LIME IN ACCORDANCE WITH AGTM 6207 2. SAND IN ACCORDANCE WITH ASTM CI44; CLEAN; NOT OVER 10% TO PASS No. 10 SIEVE.. 3. PORTLAND CEMENT IN ACCORDANCE WITH ACTM CI50; NO AIR ENTRAINMENT. 4. POTABLE WATER FRESH AND FREE OF ACIDS, ALKALIZE AND FOREIGN OR ORGANIC

5. ADMIXTURES. NO MORE THAN 0.5% BY VOLUME. 6. ALL MATERIAL SHALL BE NON-CHLORIDE AND NON-CORROSIVE AND SHALL CONTAIN NO

POLYMERS, ACRYLICS OR EPOXIES. MANUFACTURER I. SELF CONSOLIDATING MASONRY GROUT, SPECMIX, EAGAN, MIN

AFCO PRODUCTS INC. OR APPROVED EQUAL.

2. GORE FILL MASONRY GROUT, SPECMIX, EAGAN, MN 3. CORE FILL MASONRY GROUT, AMERIMIX, CHARLOTTE, NO. 4. CORE FILL MASONRY CROUT, AMERICAN DRY MIX, BALTIMORE, MD

d. IF PRE-BLENDED MATERIAL IS NOT USED, MIX FORMULATIONS ARE TO BE DESIGNED BY A PROFESSIONAL ENGINEERING SPECIALIZED IN INJECTION ENGINEERING. e. MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AND IN ACCORDANCE WITH ASTM 6476.

F. MATERIAL SHALL BE MEASURED AND BATCHED EITHER BY VOLUME OR WEIGHT. SHOVEL COUNT MEASUREMENT IS NOT ACCEPTABLE. q. Contractor to coordinate and pay for professional engineer who specializes in

INJECTION ENGINEERING TO WITNESS PLACEMENT OF GROUT AND PROVIDE REPORT TO ARCHITECT.. h. PERFORM A PRE-INJECTION EVALUATION OF THE MASONRY MATERIALS CONDITION. EVALUATE THE EXTENT AND SIZE OF ANY VISIBLE SURFACE CRACKS, MORTAR BLOCKAGES, MORTAR JOINT DELAMINATIONS, EXPANSION JOINTS, FLASHINGS, PENETRATIONS, CRACKED OR SPALLED UNITS OR OTHER VISIBLE SURFACE DAMAGE WHICH MAY HAVE AN EFFECT ON GROUT CONFINEMENT OR THE INJECTION PROCESS. MAKE CORRECTIONS AS REQUIRED BY THE PROFESSIONAL ENGINEER. DETERMINE THE SIZE AND LOCATIONS OF INJECTION AND INSPECTION HOLES DURING THIS

DO NOT ALLOW GROUT TO FLOW INTO EXPANSION JOINTS. SEAL AROUND ALL PENETRATIONS, FLASHINGS AND BEAM SEATS TO PREVENT LEAKAGE. PLACE INSPECTION AND INJECTION HOLES OF THE SIZE AND SPACING DETERMINED BY THE

I. PRIOR TO INJECTION, FLUSH ALL INSPECTION AND INJECTION HOLES VERIFYING THE FREE FLOW OF WATER. DRILL NEW HOLES AS REQUIRED TO REPLACE THOSE THAT ARE PARTIALLY OR TOTALLY BLOCKED

k. PRIOR TO INJECTION, LIGHTLY SPRAY THE MASONRY SURFACE TO PREVENT GROUT ADHESION. MAINTAIN A BRUSH AND WATER ON-HAND DURING INJECTION WORK FOR CLEANING SPILLS ON THE MASONRY SURFACE.

THE INJECTION OF EACH LIFT SHALL PROCEED IN CONTINUOUS FASHION, WITH NO TIME LAPSES OF MORE THAN THREE MINUTES DURING THE INJECTION OF ANY SINGLE LIFT. m. QUALITY VERIFICATION

I. THE PROFESSIONAL ENGINEER IS TO CONDUCT NON-DESTRUCTIVE VERIFICATION OF GROUT PENETRATION UTILIZING PULSE-ECHO, INFRARED THERMOGRAPHY OR THROUGH-WALL PULSE VELOCITY MEASUREMENTS IN A CRID PATTERN WITH MAXIMUM SPACING NOT EXCEEDING EIGHT

2. THE PROFESSIONAL ENGINEER IS TO CONDUCT NON-DESTRUCTIVE VERIFICATION OF GROUT ADHESION TO THE MASONRY.

3. LOCATIONS WHERE GROUT IS NOT PRESENT OVER AN AREA GREATER THAN FOUR INCHES SQUARE SHALL BE RE-INJECTED. n PERFORMANCE CRITERIA

. SUBMIT TEST REPORTS FROM AN INDEPENDENT, QUALIFIED LABORATORY FOR THE MIX DESIGN SPECIFIED BY THE PROFESSIONAL ENGINEER OR PRE-BLENDED DESIGN FROM THE MANUFACTURER FOR COMPLIANCE OF PROPERTIES SUITABLE FOR GROUT INJECTION 2. FLOW TIME: SPECIFIED BY THE PROFESSIONAL ENGINEER; TESTED IN ACCORDANCE WITH API RECOMMENDED PRACTICE ISB OR ASTM C939.

3. Bleeding: Tested in Accordance With Astm 6940; no Greater Than 0.5 Percent. 4. MIX STABILITY: MEASURED WITH THE GELMAN PRESSURE CELL; WATER LOSS UNDER 10 psi PRESSURE SHALL NOT BE MORE THAN I ML PER 350 ML SAMPLED.

5. EXPANSION: RANGE SHALL BE SPECIFIED BY THE PROFESSIONAL ENGINEER; TESTED IN ACCORDANCE WITH ASTM 6940.

6. COMPRESSION STRENGTH: TESTED IN ACCORDANCE WITH ASTM CIOIS 7. FLOW WITHIN A COMPATIBLE MATERIAL: TESTED IN ACCORDANCE WITH MSI IOI. o. ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM ONE MANUFACTURER. p. RE-POINT ALL INJECTION AND INSPECTION HOLES AT THE COMPLETION OF INJECTION WORK

UTILIZING MORTAR SIMILAR IN COLOR AND COMPOSITION TO THE ORIGINAL MORTAR, TOOL TO MATCH THE ADJACENT SURFACE. THE PROFESSIONAL ENGINEER IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED

EXPERIENCE WITH INJECTION GROUTING AND SHALL BE ABLE TO PROVIDE DOCUMENTED PROOF OF AT LEAST THREE PROJECTS WHICH THEY PERFORMED DESIGN, WITNESSING AND EVALUATION r. THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED

EXPERIENCE WITH THE TYPE OF WORK SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT. 0416. GLASS BLOCK

a. 8x8x4, GLEAR (NON-COLORED), OBSCURED VIEW GLASS BLOCK UNITS; PREMIER SERIES; 'DECORA' PATTERN BY PITTSBURGH CORNING, OR APPROVED EQUAL BY QUALITY GLASS BLOCK AND WINDOW, OR CINNCINATTI GLASS BLOCK.

INSTALL UTILIZING TRADITIONAL MORTAR INSTALLATION TECHNIQUE, WITH HORIZ REINFORGING EVERY COURSE, HORIZONTAL AND VERTICAL PANEL ANCHORS AT HEAD AND JAMBS, ASPHALT EMULSION UNDER BASE COURSE, AND EXPANSION STRIPS AT HEAD AND JAMBS, ALL INSTALLED PER MER'S INSTRUCTIONS AND AS DETAILED HEREIN.

c. TOOL MORTAR TO PROVIDE SMOOTH, EVEN CONCAVE JOINTS. d. MORTAR COLOR AS SELECTED FROM MFR'S STANDARD RANGE. SUBMIT MFR'S SAMPLE MORTAR STICK PACKAGE FOR ARCHITECT'S SELECTION.

0417. PROVIDE FACE BRICK VENEER WORK AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, MORTAR, UNITS, REINFORGEMENT, GLEANING AND ALL OTHER ITEMS AND INCIDENTALS AS a. INSTALL IN STRICT ACCORDANCE WITH OBG CHAPTER 21, THE MASONRY SOCIETY (TMS), THE

AMERICAN CONCRETE INSTITUTE (ACI), THE AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) AND APPLICABLE BRICK INDUSTRY ASSOCIATION (BIA) TECHNICAL NOTES. b. MATERIAL: MODULAR UNITS FACE BRICK SALVACED FROM EXISTING BUILDING OR NEW TO MATCH EXISTING: ASTM C216; CRADE SM; APPEARANCE FBS; CROSS AREA COMPRESSIVE STRENGTH

MINIMUM 2500 psi MAXIMUM 20 PERGENT FIVE-HOUR BOILING ABSORPTION: MAXIMUM SATURATION COEFFICIENT 0.80: SHAPES AND SIZES AS INDICATED ON THE DRAWINGS. I.I. IF SALVACED BRICK IS NOT RE-USEABLE, CONTRACTOR TO INSTALL NEW BRICK TO MATCH EXISTING. PRIOR TO ORDERING NEW BRICK, CONTRACTOR TO BUILD A SAMPLE Brick panel as directed in the exterior elevations ceneral notes on sheet

I.2. CORRUGATED WALL TIE (WOOD STUD WALL): ASTM A153, CLASS B; ASTM A1008; GALVANIZED; MINIMUM 22 GAUGE; MINIMUM 7/8 INCHES WIDE AND 6 INCHES LONG;

0417., Installation in accordance with tims 602, act 503 and asce 6; unless otherwise indicated 0500. Provide submittal in accordance with section 0112 of the general notes. (CONT) MAXIMUM VERTICAL SPACING 18 INCHES ON CENTER, MAXIMUM HORIZONTAL SPACING 32 INCHES ON

I. WALL TIE (METAL STUD WALL): ASTM AI53, CLASS B-2; HOT-DIPPED GALVANIZED ADJUSTABLE WIRE ANCHOR; MINIMUM WI.7 (4 GAUGE, MWII); UNLESS OTHERWISE INDIGATED MAXIMUM VERTICAL

SPACING 18 INCHES ON CENTER, MAXIMUM HORIZONTAL SPACING 32 INCHES ON CENTER. 2. MASONRY WALL TIES AT 16" OC EACH WAY 3. MORTAR: ASTM 6270; TYPE N; MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 750 PSI;

PROPORTIONS BY VOLUME. MATCH EXISTING. 4. PORTLAND CEMENT: ASTM CI50, TYPE I.

5. MORTAR CEMENT: ASTM CI329 6. HYDRATED LIME: ASTM 6207, TYPE S. 1. AGGREGATE: ASTM 6144, CLEAN MASONRY SAND, NOT OVER 10 PERCENT PASSING No. 100

8. WATER: ASTM CI602 AND TESTED IN ACCORDANCE WITH ASTM CI603; POTABLE; FRESH AND FREE OF ACIDS, ALKALIS AND FOREIGN OR ORGANIC MATERIALS

 FLASHING, COPPER: ASTM B370: MINIMUM WEIGHT 12 OUNCES PER SQUARE FOOT IO. LINTEL, STEEL: ASTM A36; PRIMED AND PAINTED; SIZE AND THICKNESS AS INDICATED ON THE

II. SILL: MODULAR UNITS, SOLID UNITS ON SILL ENDS, 12. SEALANT: REFERENCE DIVISION OF THE GENERAL NOTES. 13. <u>GLEANING SOLUTION: AS RECOMMENDED BY THE BRICK MANUFACTURER.</u>

c. UNITS MANUFACTURER, STYLE AND COLOR: AS SELECTED BY THE ARCHITECT d. Mortar Materials shall be Measured and Batched Either by Volume or Weight. Shovel

COUNT MEASUREMENT IS NOT ACCEPTABLE. e. THE USE OF MORTAR ADMIXTURES IS PROHIBITED f. BED AND HEAD JOINTS 3/8 INCHES THICK.

g. Store Masonry Units off the Ground, Under Cover and in a dry Location to prevent DETERIORATION OR DAMAGE DUE TO MOISTURE, TEMPERATURE CHANGES, CONTAMINANTS CORROSION, AND OTHER CAUSES. IF UNITS BECOME WET, DO NOT PLACE UNTIL UNITS ARE IN AN AIR-DRIED CONDITION.

 h. ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM ONE MANUFACTURER. THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF WORK SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS

0418. PROVIDE MANUFACTURED STONE MASONRY VENEER SYSTEM (CULTURED STONE) OVER WOOD FRAMED OVER LIGHT GAIGE METAL FRAMED EXTERIOR WALLS AS INDICATED ON THE DRAWINGS. INCLUDES SUBSTRATE PREPARATION, FLASHINGS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE, WEATHER-TIGHT SYSTEM.

a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, DETAILS AND SPECIFICATIONS. MANUFACTURER: STONE GRAFT INDUSTRIES; DUTCH GRAFT FOUNDATION STONE. MATCH EXISTING

d. COLOR: AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE. I. FIELD STONE: COMPRESSIVE STRENGTH OF 1,800 psi IN ACCORDANCE WITH ASTM C192 AND

. MANUFACTURER: GLEN-GERY LANDMARK; ASHFORD STACKSTONE.

ASTM C39; THERMAL RESISTANCE 2. TRIMS SUCH AS CONTINUOUS WATER-TABLE AND RECEPTACLE STONES. 3. MORTAR: TYPE N OR S; COMPLY WITH ASTM C270; BOND BETWEEN MORTAR AND STONE

MINIMUM 50 PSI IN ACCORDANCE WITH ASTM C482. 4. METAL LATH: 2.5 lbs GALVANIZED EXPANDED METAL OR 18 GAUGE MOVEN WIRE MESH OR 3.4 Ibs GALVANIZED EXPANDED RIB LATH.

5. LATH FASTENER FOR WOOD FRAMING: CORROSION RESISTANT NAILS AS RECOMMENDED BY THE CULTURED STONE MANUFACTURER. 6. LATH FASTENER FOR METAL FRAMING: CORROSION RESISTANT SCREWS AS RECOMMENDED BY THE CULTURED STONE MANUFACTURER.

7. FLASHING: TYPE, SIZE AND LOCATION AS RECOMMENDED BY THE CULTURED STONE MANUFACTURER. 8. SEALANT: REFERENCE DIVISION OT FOR SPECIFIC REQUIREMENTS; AS RECOMMENDED BY THE MANUFACTURER.

e. THERMAL RESISTANCE: MINIMUM 0.355 PER INCH OF STONE THICKNESS IN ACCORDANCE WITH ASTM f. Freeze/tham: In accordance with astm c61; after 50 cycles, no disintegration and

LESS THAN 3 PERCENT WEIGHT LOSS. . FLAME SPREAD O, SMOKE DEVELOPMENT O . MAXIMUM VENEER UNIT WEIGHT: 15 lbs PER SQUARE FOOT.

PROVIDE EXPANSION JOINTS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. FURNISH MANUFACTURER'S STANDARD WRITTEN WARRANTY AGAINST DEFECTS IN MANUFACTURING FOR A MINIMUM PERIOD OF FIFTY (50) YEARS FOLLOWING THE DATE OF SUBSTANTIAL

k. ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM ONE MANUFACTURER. I. THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT.

m. PRIOR TO THE COMMENCEMENT OF THE WORK, PROVIDE A MOCK-UP FOR APPROVAL BY THE OWNER'S REPRESENTATIVE AND, IF REQUESTED, THE MANUFACTURER, MOCK-UP IS TO INCLUDE AN INSIDE CORNER, AN OUTSIDE CORNER, WATER-TABLE, AN INTRICATE DETAIL SELECTED BY THE OWNER'S REPRESENTATIVE AND A TERMINATION AT DISSIMILAR MATERIAL. THE MOCK-UP, IF APPROVED MAY BE INCORPORATED IN THE WORK.

0419. EXAMINE SUBSTRATES, STRUCTURE AND INSTALLATION CONDITIONS. DO NOT PROCEED WITH WORK UNDER THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. a. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE.

0420. a. EXAMINE SUBSTRATE. DO NOT PROCEED WITH WORK UNDER THIS SECTION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. b. INSTALL CONTINUOUS WEEP SCREED AT 4" ABOVE FINISH GRADE AND AT 2" ABOVE PAVING.

c. APPLY SCRATCH COAT WITH EMBEDDED MESH ON NEW WALL SHEATHING. MESH TO BE SELF FURRED OR SECURED WITH FURRING FASTNERS TO PROVIDE I/4" CLEARANCE BETWEEN LATH AND SUBSTRATE. LATH TO MEET ASTM CIO32, FOR 18 GA WOVEN WIRE MESH. FASTENERS - ASTM C1063.

d. APPLY MORTAR SETTING BED. INSTALL CULTURED STONE UNITS IN PATTERN TO MATCH EXISTING. e. APPLY MORTAR JOINTS WITH GROUT BAG. TOOL CONCAVE JOINTS. I. TYPE N MORTAR. ASTM CI384, ASTM CI059. COLOR AS SELECTED TO MATCH EXISTING. COLORING PIGMENT TO COMPLY WITH ASTM C979.

F. INSTALL PER MYMA INSTALLATION GUIDE FOR ADHERED CONCRETE MASONRY VENEER. 0421. LAY UP BRICK VENEER IN RUNNING BOND AND STACK BOND COURSING AS ILLUSTRATED ON THE

EXTERIOR ELEVATIONS. a. CONTRACTOR'S BID TO INCLUDE ALL COSTS ASSOCIATED WITH TUCK POINTING 3% OF THE

EXISTING EXTERIOR MASONRY CULTURED STONE VENEER WALLS. b. CONTRACTOR TO INSPECT WALLS AND MAKE RECOMMENDATIONS FOR ALL AREAS NEEDING TUCKPOINTING. TUCKPOINTING SHALL NOT COMMENCE UNTIL ARCHITECT, OWNER AND CONTRACTOR ARE IN AGREEMENT AS TO THE SCOPE OF WORK INVOLVED. IF SCOPE INCLUDES GREATER THAN OR LESS THAN 3% OF THE EXISTING EXTERIOR WALLS, CONTRACT TO BE ADJUSTED VIA CHANGE ORDER.

LOOSE AND SOFT MORTAR TO BE REMOVED TO 3/4" DEPTH. d. POINTING MORTAR SHALL BE APPROXIMATELY ONE PART PORTLAND CEMENT, TWO PARTS LIME AND SIX PARTS AGGREGATE, BUT IN NO CASE SHALL THE MORTAR HAVE A HIGHER STRENGTH THAN THE MASONRY. ADJUST PROPORTIONS AS NECESSARY. ADD COLORING AGENT PER MFR'S INSTRUCTIONS TO ACHIEVE SELECTED MORTAR COLOR. I. ANTI-FREEZE COMPOUNDS, AIR-ENTRAINING AGENTS, AND BONDING AGENTS ARE

PROHIBITED. REPOINTING MOPRTAR SHALL BE PREHYDRATED PRIOR TO POINTING. 2. MAINTAIN ACCURATE RECORDS OF MORTAR MIXES AND METHODS TO ENSURE CONSISTENCY FROM BATCH TO BATCH. 3. POINTED JOINTS SHALL BE STRUCK TO MATCH AND BLEND WITH SURROUNDING EXISTING

MORTAR JOINTS AND SHALL NOT EXTEND OVER THE FACE OF WEATHERED CORNERS OF THE BRICK..

0423. EXTERIOR BRICK VENEER CLEANING

a. UPON COMPLETION OF ALL EXTERIOR VENEER WORK, (INCLUDING TUCKPOINTING, PREGAST PANEL INSTALLATION, BRICK VENEER INSTALLATION AT NEW MASONRY OPENINGS, ETC) CONTRACTOR TO GLEAN ALL VENEER BRICK WITH GENERAL-PURPOSE ACIDIC CLEANER DESIGNED FOR REMOVING MORTAR/GROUT STAINS, EFFLORESCENCE, DIRT, GRIME, GARBON, AND OTHER STAINS WITHOUT DISCOLORING OR DAMAGING THE MASONRY SURFACES.

DOORS, ETC FROM DAMAGE. 2. THE USE OF MURATIC ACID IS PROHIBITED. 3. SUBMIT CONTRACTOR'S SUGGESTED CLEANING COMPOUND AND PROCEDURES FOR REVIEW. 3.1. GLEANING SHOULD EMPLOY THE LEAST INTRUSIVE, MILDEST AND SAFEST METHODS AND

CLEANING TESTS USING THE PROPOSED CLEANING METHOD IN INCONSPICUOUS 50 SF

PROTECT ALL ADJACENT WALLS, CONCRETE PATIOS AND SIDEWALKS, VEGETATION, WINDOWS;

SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL SPECIFICATIONS AND INFORMATION. WHERE THOSE STRUCTURAL REQUIREMENTS

CONFLICT WITH THE SPECS ON THIS SHEET, IN ALL CASES THE MOST STRINGENT SHALL APPLY.

3.2. PRIOR TO ACCEPTANCE BY THE ARCHITECT, THE CONTRACTOR SHALL PERFORM

PORTION OF THE BUILDING WALLS WHERE SELECTED BY THE ARCHITECT.

MATERIALS THAT WILL ACCOMPLISH THE WORK.

DIVISION 5 - METALS

a. STRUCTURAL STEEL, DECKING AND BAR JOISTS b. PRE-ENGINEERED METAL TRUSSES

c. STRUCTURAL METAL STUD FRAMING

d. GROUT

e. ANCHOR BOLTS

F. ALL OTHER ITEMS/INFORMATION INDICATED ON THE STRUCTURAL DRAWINGS 0501. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION.

a. DIVISIONS OO AND OI OF THE GENERAL NOTES. b. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) I. SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR

2. AISC 5303, CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES b. AMERICAN IRON AND STEEL INSTITUTE (AISI)

I. AISI SIOO, NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL 2. AISI 5200, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL

PROVISIONS 3. AISI S20I, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - PRODUCT DATA 4. AISI 5202, CODE OF STANDARD PRACTICE FOR COLD-FORMED STEEL STRUCTURAL FRAMING

5. AISI S2II, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - WALL STUD 6. AISI 5212, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - HEADER DESIGN 7. AISI S2I3, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - LATERAL

8. AISI 5214, NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - TRUSS DESIGN c. AMERICAN WELDING SOCIETY (AWS) AMS A2.4, STANDARD SYMBOLS FOR WELDING, BRAZING AND NONDESTRUCTIVE EXAMINATION

2. AWS DI.I. STRUCTURAL WELDING CODE - STEEL 3. AMS DI.3, STRUCTURAL WELDING CODE - SHEET STEEL

FINISHED BAR, ROD AND WIRE

d. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) I. ASTM A36, STANDARD SPECIFICATION FOR CARBON STRUCTURAL STEEL. 2. ASTM A53, STANDARD SPECIFICATION FOR PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC

COATED, WELDED AND SEAMLESS. 3. ASTM AI23, STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS 4. ASTM AI53, STADARD SPECIFICATION FOR ZINC COATING ON IRON AND STEEL HARDWARE.

5. ASTM A307, STANDARD SPECIFICATION FOR CARBON STEEL BOLTS AND STUDS, 60,000 PSI ASTM A325, STANDARD SPECIFICATION FOR STRUCTURAL BOLTS, STEEL, HEAT TREATED,

120/105 KSI MINIMUM TENSILE STRENGTH. 7. ASTM A385, STANDARD PRACTICE FOR PROVIDING HIGH QUALITY ZINC COATINGS (HOT-DIP) 8. ASTM A500, STANDARD SPECIFICATION FOR COLD-FORMED WELDED AND SEAMLESS CARBON

STEEL STRUCTURAL TUBING. 9. ASTM A501, STANDARD SPECIFICATION FOR HOT-FORMED WELDED AND SEAMLESS CARBON STEEL STRUCTURAL TUBING.

IO. ASTM A563, STANDARD SPECIFICATION FOR CARBON AND ALLOY STEEL NUTS. II. ASTM A588, STANDARD SPECIFICATION FOR HIGH STRENGTH LOW ALLOW STRUCTURAL STEEL WITH 50 KSI MINIMUM YIELD POINT TO FOUR INCHES THICK.

12. ASTM A653, STANDARD SPECIFICATION FOR STEEL SHEET, ZINC OR ZINC-IRON ALLOY COATED BY HOT-DIP PROCESS. 13. ASTM A180, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS

14. ASTM A792, STANDARD SPECIFICATION FOR STEEL SHEET, 55 PERCENT ALUMINUM-ZINC ALLOY COATED BY HOT-DIP PROCESS 15. ASTM AIOO3, STANDARD SPECIFICATION FOR STEEL SHEET, CARBON, METALLIC-COATED AND NON-METALLIC-COATED FOR COLD-FORMED FRAMING MEMBERS

ASTM A1008, STANDARD SPECIFICATION FOR STEEL, SHEET, COLD-ROLLED, CARBON, STRUCTURAL, HIGH-STRENGTH LOW-ALLOY, HIGH-STRENGTH LOW-ALLOY WITH IMPROVED FORMABILITY, SOLUTION HARDENED AND BAKE HARDENABLE 17. ASTM B211, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY ROLLED OR COLD

18. ASTM B221, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY EXTRUDED BARS, RODS, WIRE, PROFILES AND TUBES 19. ASTM B247, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY DIE FORGINGS, HAND FORGINGS AND ROLLED RING FORGINGS

20.ASTM B429, STANDARD SPECIFICATION FOR ALUMINUM-ALLOY EXTRUDED STRUCTURAL PIPE 21. ASTM C455, STANDARD SPECIFICATION FOR LOAD BEARING (TRANSVERSE AND AXIAL) STEEL STUD. RUNNERS (TRACKS) AND BRACING OR BRIDGING FOR SCREW APPLICATION OF GYPSUM PANEL PRODUCTS AND METAL PLASTER BASES

22.ASTM CIOOT, STANDARD SPECIFICATION FOR INSTALLATION OF LOAD BEARING (TRANSVERSE

AND AXIAL) STEEL STUDS AND RELATED ACCESSORIES 23. ASTM CIIO7, STANDARD SPECIFICATION FOR PACKAGED DRY, HYDRAULIC-CEMENT GROUT (NON-SHRINK) 24. ASTM CI513, STANDARD SPECIFICATION FOR STEEL TAPPING SCREWS FOR COLD-FORMED STEEL FRAMING CONNECTIONS

25. ASTM D2244. STANDARD PRACTICE FOR CALCULATION OF COLOR TOLERANCES AND COLOR DIFFERENCES FROM INSTRUMENTALLY MEASURED COLOR COORDINATES. 26.ASTM D2247, STANDARD PRACTICE FOR TESTING WATER RESISTANCE OF COATINGS IN 100 PERCENT RELATIVE HUMIDITY.

21. ASTM D2794, STANDARD TEST METHOD FOR RESISTANCE OF ORGANIC COATINGS TO THE EFFECTS OF RAPID DEFORMATION (IMPACT). 28.ASTM D3361, STANDARD PRACTICE FOR UNFILTERED OPEN-FLAME CARBON-ARC EXPOSURES OF PAINT AND RELATED COATINGS.

29. ASTM D4214, STANDARD TEST METHODS FOR EVALUATING THE DEGREE OF CHALKING OF EXTERIOR PAINT FILMS. 30.ASTM E84, STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS.

31. ASTM E96, STANDARD TEST METHODS FOR WATER VAPOR TRANSMISSION OF MATERIALS.

32. ASTM EI592, STANDARD TEST METHOD FOR STRUCTURAL PERFORMANCE OF SHEET METAL ROOF AND SIDING SYSTEMS BY UNIFORM STATIC AIR PRESSURE DIFFERENCE 33. ASTM F436. STANDARD SPECIFICATION FOR HARDENED STEEL WASHERS. 34. ASTM F468, STANDARD SPECIFICATION FOR NONFERROUS BOLTS, HEX CAP SCREWS, SOCKET

HEAD CAP SCREWS AND STUDS FOR GENERAL USE 35. ASTM F543, STANDARD SPECIFICATION FOR STAINLESS STEEL BOLTS, HEX CAP SCREWS AND

36. ASTM FI554, STANDARD SPECIFICATION FOR ANCHOR BOLTS, STEEL, 36, 55, AND 105-KSI YIELD 37. ASTM F2329, STANDARD SPECIFICATION FOR ZINC COATING, HOT DIP, REQUIREMENTS FOR APPLICATION TO CARBON AND ALLOY STEEL BOLTS, SCREWS, WASHERS, NUTS AND SPECIAL THREADED FASTENERS

38. ASTM 687, STANDARD PRACTICE FOR CONDUCTING MOIST 502 TESTS. e. FM GLOBAL (FM) I. FM STANDARD 447I, APPROVED STANDARD FOR CLASS I ROOFS FOR HAIL DAMAGE

RESISTANCE, COMBUSTIBILITY AND WIND UPLIFT RESISTANCE 2. FM DS I-28R, DATA SHEET: ROOF SYSTEMS F. NATIONAL ASSOCIATION OF METAL MANUFACTURERS (NAMM)

I. NAMM AMP 500, METAL FINISHES MANUAL 2. NAMM AMP 521, PIPE RAILING SYSTEMS MANUAL 3. NAMM AMP 555, CODE OF STANDARD PRACTICE FOR THE ARCHITECTURAL METAL INDUSTRY

SSPC-SPI, SOLVENT CLEANING 2. SSPC-SP3, POWER TOOL CLEANING 3. SSPC-SP6, COMMERCIAL BLAST CLEANING 4. SSPC-SPIO, NEAR WHITE BLAST CLEANING

5. SSPC-PAI, SHOP, FIELD AND MAINTENANCE PAINTING

q. SOCIETY FOR PROTECTIVE COATINGS (SSPC)

h. UNDERWRITERS LABORATORIES

AND RAILING SYSTEMS.

OBC CHAPTERS 16 AND 22.

6. SSPC PAINT 20, ZINC-RICH PRIMERS (TYPE I INORGANIC, TYPE II ORGANIC) 7. SSPC TECHNOLOGY GUIDE NO. 14, GUIDE FOR THE REPAIR OF IMPERFECTIONS IN GALVANIZED OR INORGANIC ZINC-COATED STEEL USING ORGANIC ZINC-RICH COATING 8. SSPC PAINT SYSTEM GUIDE NO. 12.00, GUIDE TO ZINC-RICH COATING SYSTEMS

I. UL 209, STANDARD FOR SAFETY CELLULAR METAL FLOOR RACEWAYS AND FITTINGS 2. UL 580, STANDARD FOR TESTS FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES. 3. UL 123, STANDARD FOR TEST FOR SURFACE BURNING CHARACTERISTICS OF BUILDING

I. SPECIFICATION FOR STRUCTURAL JOINTS AND LOAD AND RESISTANCE FACTOR DESIGN . Steel Deck Institute (SDI) I. SDI C, STANDARD FOR COMPOSITE STEEL FLOOR DECK - SLABS 2. SDI NC. STANDARD FOR NON-COMPOSITE STEEL FLOOR DECK

RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS (RCSC)

3. SDI RD, STANDARD FOR STEEL ROOF DECK

4. SDI DDMO3, DIAPHRAGM DESIGN MANUAL 5. SDI MOC2, MANUAL OF CONSTRUCTION WITH STEEL DECK k. AMERICAN NATIONAL STANDARD SPECIFICATIONS (ANSI) I. ANSI AI264.I, SAFETY REQUIREMENTS FOR WORKPLACE FLOOR AND WALL OPENINGS, STAIRS

0502. STRUCTURAL STEEL AND METAL FABRICATION SHALL COMPLY WITH THE REQUIREMENTS OF

0503. PROVIDE STRUCTURAL STEEL FRAMING AND METAL FABRICATIONS AS SHOWN DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES SOME OR ALL OF THE FOLLOWING: BEAMS, TUBING, BAR JOISTS, ANGLES, PLATES, WEB STIFFENERS, GAS METER MOUNT, CLIPS, FASTENERS, ANCHOR BOLTS, GROUTING AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED. REFERENCE THE STRUCTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.

0504. SHOP PAINT ALL STRUCTURAL STEEL CONFORMING TO STEEL STRUCTURES PAINTING COUNCIL SPECIFICATIONS. REFERENCE DIVISION OF OF THE TECHNICAL SPECIFICATIONS FOR SPECIFIC

a. DO NOT PAINT STEEL OR ANCHOR BOLTS WHICH WILL BE ENCASED IN CONCRETE.

b. STRUCTURAL STEEL SHAPES ARE TO RECEIVE TWO (2) COATS OF SHOP PAINT. d. GALVANIZING REPAIR PAINT TO BE ZINC RICH PRIMER PAINT. e. GALVANIZED FINISHES:

I. ASTM A153 FOR GALVANIZING IRON AND STEEL HARDWARE. 2. ASTM AI23 FOR GALVANIZING ROLLED, PRESSED AND FORGED STEEL SHAPES, PLATES, BARS AND STRIPS I/8 INCH THICK AND HEAVIER.

0505. PROVIDE COLD-FORMED STRUCTURAL METAL FRAMING SYSTEM AS INDICATED ON THE DRAWINGS. INCLUDES TWENTY GAUGE STUDS (SIZE AND GA AS INDICATED ON THE DWGS) AND TRACK, PRE-ENGINEERED ROOF TRUSSES, BRACING CHANNELS, CLIPS, FURRING, FASTENERS AND ALL OTHER INCIDENTALS AS REQUIRED a. MATERIAL

I. STEEL STUDS: ASTM AIOO3, STRUCTURAL GRADE 33 AND/OR 50, TYPE H MINIMUM BASE METAL THICKNESS, FLANGE WIDTH AND WEB DEPTH AS INDICATED ON THE DRAWINGS; PUNCHED OR UN-PUNCHED; COATING 660 OR 690; 690 REQUIRED AT FACE BRICK VENEER ASSEMBLIES. 2. RUNNER (TRACK): ASTM A653, ASTM A1003; GRADE, MINIMUM BASE METAL THICKNESS, FLANGE

WIDTH AND WEB DEPTH AS INDICATED ON THE DRAWINGS; UN-PUNCHED; COATING G60 OR G90.

THICKNESS, FLANGE WIDTH AND WEB DEPTH AS INDICATED ON THE DRAWINGS; COATING 660 4. POWDER-ACTUATED FASTENER: CORROSION RESISTANT; LOAD CAPACITY IN ACCORDANCE

3. STEEL "Z" FURRING: ASTM AIOO3, STRUCTURAL GRADE 33, TYPE H MINIMUM BASE METAL

WITH ICC-ES AC 70. 5. SCREW FASTENERS: ASTM CI5I3; CORROSION RESISTANT; SELF-DRILLING, SELF-TAPPING; ELECTROPLATED TO A MINIMUM OF 5 MICRONS ZINC COATING IN ACCORDANCE WITH ASTM

FI941 OR HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 OR ASTM A153. 0506. ALL STRUCTURAL STEEL ITEMS AND THEIR CONNECTIONS, INCLUDING WELDS, PERMANENTLY EXPOSED TO EXTERIOR CONDITIONS OR THAT ARE WITHIN AREAS OF UNCONDITIONED AIRSPACE, WHETHER OR NOT INDICATED ON THE DRAWINGS, SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. REFER TO DIVISION OF OF THE THE TECHNICAL SPECIFICATIONS FOR THOSE ITEMS SPECIFIED TO RECEIVE PRIMER AND FINISH COAT.

a. SURFACE PREPARATION I. IN COMPLIANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL (SSPC), VOLUME 2, LATEST

2. REMOVE ALL GREASE, OIL, GRIME, ETC. BY CLEANING WITH AN ALKALINE SOLVENT. RINSE THOROUGHLY WITH COLD WATER.

3. REMOVE SCALING EITHER BY PICKLING IN DILUTED SULFURIC OR HYDROCHLORIC ACID OR WHITE METAL BLAST CLEANING IN ACCORDANCE WITH SSPC-SP-5. 4. DIP IN FLUX SOLUTION OF ZINC AMMONIA CHLORIDE AND DRY BY ROOM TEMPERATURE.

b. ZINC COATING I. IN ACCORDANCE WITH ASTM A 123. 2. WEIGHT PER SQUARE FOOT OF SURFACE FOR 1/8 INCH AND 3/16 INCH THICK STEELS SHALL

NOT LESS THAN 2.3 OZ. c. REPAIR PAINT: "ZRC COLD GALVANIZING COMPOUND" BY ZRC CHEMICAL PRODUCTS OR APPROVED EQUAL COMPLYING WITH SSPC-PAINT 20.

3. WEIGHT PER SQUARE FOOT OF SURFACE AREA FOR 1/4 INCH AND THICKER SHALL AVERAGE

a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS. b. MATERIAL I. ROOF DECK: ASTM Aloo8; THICKNESS AND DEPTH AS INDICATED ON THE DRAWINGS;

1. PROVIDE GALVANIZED METAL DECKING AS INDICATED ON THE STRUCTURAL DRAWINGS.

GALYANIZED 690 COATING IN ACCORDANCE WITH ASTM A653. 2. TOUCH-UP PAINT: ASTM A780; HIGH ZINC DUST CONTENT. 3. CLOSURE STRIPS

4. GALVANIZED STEEL ANGLES: ASTM A36, ASTM A123

AVERAGE NOT LESS THAN 2.0 OZ.

0508. GROUND AND BOND STEEL COMPONENTS IN ACCORDANCE WITH NFPA 70.

0509. PROVIDE STEEL COLUMN PLATE GROUTING AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN. I. PRE-MIXED; NON-METALLIC; NON-SHRINK; NON-CORROSIVE; NON-STAINING; CONTAINING PORTLAND CEMENTS, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS AND FLUIDITY

IMPROVING COMPOUNDS. 2. IN COMPLIANCE WITH ASTM CITOT. 3. STRENGTH: AS SPECIFIED BY THE STRUCTURAL ENGINEER.

0510. HIGH-STRENGTH BOLTS: REFERENCE STRUCTURAL DRAWINGS. 0511. PROVIDE ANCHOR BOLTS: ASTM A36 OR ASTM A307; REFERENCE STRUCTURAL DRAWINGS FOR

TYPES, SIZES AND LOCATIONS. a. EXPANSION BOLTS: HILTI "KWIK-BOLTS" OR APPROVED EQUAL. b. PROVIDE HEAVY NUT AND WASHER AT ALL ANCHOR BOLTS (BOTH ENDS WHERE INDICATED).

0512. EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLID MASONRY OR CONCRETE SHALL BE AS INDICATED ON THE DRAWINGS, AND IF NOT INDICATED, AS FOLLOWS: a. 1/2 INCH DIAMETER BOLTS: 3-1/2 INCHES EMBEDMENT. b. 3/4 INCH DIAMETER BOLTS: 5 INCHES EMBEDMENT.

0513. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) STANDARDS AND REQUIREMENTS. a. ELECTRODES: ASTM A233, SERIES E60 OR E70, STRUCTURAL WELDING CODE OF THE AWS.

b. ALL WELDING SHALL BE DONE WITH CARE SO AS NOT TO IMPAIR ANY OF THE STRUCTURE.

0514. WELD WITNESSING AND TESTING SHALL BE COORD BY AND PAID FOR BY THE CONTRACTOR, UTILIZING AN INDEPENDENT TESTING AGENCY THAT IS APPROVED BY THE OWNER. PROVIDE TEST REPORT TO 0515. ANY METAL HANGERS, CONNECTORS, CLIPS, STRAPS, ANCHORS, BOLTS, FASTENERS, SCREWS, ETC. IN DIRECT CONTACT WITH ANY PERSERVATIVELY TREATED LUMBER SHALL BE STAINLESS STEEL TYPE 304 OR TYPE 316, OR "DOUBLE DIPPED" GALVANIZED THAT COMPLIES WITH THE ASTM A123

CONNECTORS AND FASTENERS MUST BE MADE OF THE SAME MATERIAL FOR COMPATIBILITY.

0516. PROVIDE STEEL BOLLARD POSTS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN. a. MATERIAL I. BOLLARD: FOUR (4) AND/OR SIX (6) INCHES OUTSIDE DIAMETER; STEEL PIPE PER ASTM A53; ZINC COATING GALVANIZED PER ASTM A123; EPOXY GROUTED IN GALVANIZED STEEL SLEEVE

CAST IN 12" DIA x 36" DEEP CONCRETE PIER. FILL PIPE WITH CONC, ROUNDED AT EXPOSED

3. POLYVINYLCHLORIDE (PVC) DOMED TOP SLEEVE COVER WITH REFLECTIVE BAND; COLOR AS

(CONNECTORS) OR AI53 (FASTENERS) CLASS "D" STANDARDS FOR FASTENERS AND HARDWARE. THE

TOP FOR DRAINAGE. 2. FIELD APPLIED PAINT FINISH; REFERENCE DIVISION OF OF THE TECHNICAL SPECIFICATIONS; COLOR AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE.

SELECTED BY OWNER OR OWNER'S REPRESENTATIVE. 0517. PROVIDE NON-LOAD-BEARING, ORNAMENTAL, FACTORY FABRICATED ALUMINUM COLUMNS AS INDICATED ON THE DRAWINGS. INCLUDE BASE, CAPITAL, INSTALLATION PLATES, FASTENERS, WIND UPLIFT BRACKETS, CLIPS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED.

LOADS AND THE WIND UP-LIFT LOADS AS REQUIRED BY THE OBC. b. MATERIAL: ASTM B209, EXTRUDED 6063 ALUMINUM ALLOY. THICKNESS: AS REQUIRED FOR STRUCTURAL LOADS AND NON-STRUCTURAL LOADS. STYLE: SQUARE PANEL WITH SAVANNAH BASE AND DORIG CAPITAL

d. Finish: Factory Baked-on Powder Coat; Color as selected by the owner or owner's

a. COLUMNS SHALL BE CAPABLE OF SUPPORTING AND WITHSTANDING THE REQUIRED LIVE AND DEAD

e. SIZES. . TWELVE (12) INCHES SQUARE. 2. EXACT HEIGHTS TO BE FIELD DETERMINED BY THE CONTRACTOR. e. MANUFACTURER: SUPERIOR ALUMINUM PRODUCTS.

REPRESENTATIVE FROM MANUFACTURER'S STANDARD RANGE.

0518. PROVIDE STAIR AND RAMP HANDRAIL AND CUARDRAIL ASSEMBLIES AS INDICATED ON THE DRAWINGS. a. MATERIAL I. PIPE: WELDED; ZING GOATING GALVANIZED STEEL PER ASTM A 123; 1-1/2 INCHES OUTSIDE

2. MOUNTING FLANCES. 3. FASTENERS. 4. FIELD APPLIED PAINT FINISH COLOR AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE.

DIAMETER; DESIGNED AND INSTALLED IN ACCORDANCE WITH ICC AII7.I-2009; PRIME PAINTED.

a. MATERIAL I. REFER TO ARTICLE 0415 OF THE GENERAL NOTES.

0519. PROVIDE STRUCTURAL STEEL COLUMN PLATE GROUTING AS INDICATED ON THE STRUCTURAL DRAWINGS AND ARTICLE 0415 OF THE GENERAL NOTES.

2. COMPLY WITH ASTM CIIOT. 3. STRENGTH: AS SPECIFIED BY THE STRUCTURAL ENGINEER.

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TIDI **426 EAST MAIN STREET** LANCASTER, OHIO 43130 (740) 654-4048 phone: facsimile: (740) 654-3009

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> STEPHEN M. LUCHTENBERG

8546

DRAWN BY: NJP, SML

Stephen M. Luchtenberg License No. 8546 Expiration Date: December 31, 2023 **GENERAL NOTES** DIVISION 4 **THROUGH**

DIVISION 5

SATISFACTORY PERFORMANCE. 0602. CONFORM TO LATEST EDITIONS OF THE FOLLOWING REFERENCE STANDARDS, WITH CURRENT REVISIONS, FOR THE MANUFACTURING, TESTING, ERECTING AND INSTALLATION OF ROUGH FRAMING

a. THE ENGINEERED WOOD ASSOCIATION (APA) REQUIREMENTS. b. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) REQUIREMENTS.

c. AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) REQUIREMENTS. d. ARCHITECTURAL WOODWORK INSTITUTE (AWI) REQUIREMENTS. e. NATIONAL FOREST PRODUCTS ASSOCIATION (NFPA) REQUIREMENTS. F. NATIONAL LUMBER GRADES AUTHORITY (NLGA) REQUIREMENTS.

a. UNDERWRITERS LABORATORIES, INC. (UL) REQUIREMENTS. h. U. S. PRODUCTS STANDARDS (PS) REQUIREMENTS.

MANUFACTURED IN ACCORDANCE WITH U.S. DEPARTMENT OF COMMERCE, PRODUCT STANDARD

 b. NOMINAL LUMBER SIZES ARE INDICATED, EXCEPT AS SHOWN BY DETAIL DIMENSIONS. PROVIDE DRESSED SEASONED DIMENSIONED LUMBER, S4S, KILN-DRIED TO A MAXIMUM FIFTEEN PERCENT (15%) MOISTURE CONTENT (MCI5 OR KD).

d. EACH PIECE FACTORY GRADE-MARKED BY AN AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) THAT INDICATES, AT A MINIMUM: I. GRADING AGENCY

2. GRADE, SPECIES 3. MOISTURE CONTENT

e. LIGHT FRAMING (BLOCKING, NAILERS, GROUNDS, FURRING AND SIMILAR MEMBERS) 2 TO 4 INCHES THICK; 5 INCHES AND WIDER: I. WESTERN DIMENSION LUMBER: SPRUCE-PINE-FIR (SPF) SPECIES

2. CONSTRUCTION GRADE. 3. Fb - 1,000 psi FOR SINGLE MEMBER USE, 1,150 psi FOR REPETITIVE MEMBER USE, E OF

1,300,000 psi STRUCTURAL FRAMING (WALL STUD FRAMING) 2 TO 4 INCHES THICK, 5 INCHES WIDER:

I. WESTERN DIMENSION LUMBER: DOUGLAS-FIR-LARCH (DFL) SPECIES 2. No. I OR BETTER GRADE. 3. Fb = 1,200 psi FOR SINGLE MEMBER USE, 1,350 psi FOR REPETITIVE MEMBER USE, E OF

1,800,000 psi. STRUCTURAL FRAMING (STRUCTURAL JOISTS, HEADERS, ETC.) 2 TO 4 INCHES THICK, 8 INCHES AND

SOUTHERN FOREST PRODUCTS ASSOCIATION: SOUTHERN-YELLOW-PINE (SYP) SPECIES

3. Fb OF 1,250 psi FOR SINGLE MEMBER USE, 1,400 psi FOR REPETITIVE MEMBER USE, AND E OF 1,600,000 psi. STRUCTURAL FRAMING (POSTS AND TIMBERS):

. WESTERN DIMENSION LUMBER: DOUGLAS-FIR-LARCH (DFL) SPECIES

3. Fb = 1,200 psi FOR SINGLE MEMBER USE, 1,350 psi FOR REPETITIVE MEMBER USE, Fc - 1,000 psi, E OF 1,600,000 psi

0604. FIRE-RETARDANT TREATED (FRT) WOOD

a. LUMBER AND PLYWOOD HAVING FIRE-RETARDANT TREATMENT SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS (CLASS A) WHEN TESTED IN ACCORDANCE WITH ASTM E84, "STANDARD 0608. PRE-ENGINEERED WOOD ROOF TRUSSES TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS." b. LUMBER AND PLYWOOD HAVING FIRE-RETARDANT TREATMENT SHALL BE FACTORY

GRADE-MARKED UNDER U. S. PRODUCT STANDARDS, PS-20, THAT INDICATES, AT A MINIMUM: . GRADING AGENCY

2. WOOD SPECIES 3. YEAR OF TREATMENT

4. FIRE-RETARDANT TREATMENT USED

5. TREATING COMPANY AND LOCATION 6. KILN DRY AFTER TREATMENT (KDAT)

7. SIZE AND LENGTH. c. KILN DRIED AFTER TREATMENT

. LUMBER: MAXIMUM MOISTURE CONTENT OF NINETEEN PERCENT (19%)

2. PLYWOOD: MAXIMUM MOISTURE CONTENT FIFTEEN PERCENT (15%) d. FIRE RETARDANT TREATED WOOD USED IN STRUCTURAL APPLICATIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS AND LIMITATIONS LISTED IN ESR-1791 AS ISSUED BY THE ICC EVALUATION SERVICE, INC.

CUTS AND BORED AREAS: TREAT TO CONFORM WITH THE REQUIREMENTS OF THE AMERICAN WOOD PRESERVERS ASSOCIATION (AWPA) AWPA M4.

 FASTENERS MUST BE GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. IN ACCORDANCE WITH OBC SECTION 2304.10.5.

0605. PRESERVATIVE TREATED (PT) WOOD

a. EACH PIECE FACTORY GRADE-MARKED BY AN AGENCY ACCREDITED BY THE AMERICAN LUMBER STANDARD COMMITTEE (ALSC) THAT INDICATES, AT A MINIMUM:

GRADING AGENCY

AMPA USE CATEGORY 3. YEAR OF TREATMENT 4. PRESERVATIVE USED

5. PRESERVATIVE RETENTION

6. EXPOSURE CATEGORY . TREATING COMPANY AND LOCATION

8. DRY OR KDAT 9. SIZE AND LENGTH.

. PRESERVATIVE CLASSIFICATION:

I. WATERBORNE, NON-COPPER BASED

2. INORGANIC BORON (SBX) 3. IN COMPLIANCE WITH AWPA PRESERVATIVE STANDARDS C2, M4, P5, P25 OR C9-TO

4. IN COMPLIANCE WITH AWPA USE CATEGORY STANDARDS UI AND TI 5. SHALL NOT EXCEED THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY'S TOXIC

CHARACTERISTIC LEACHING PROCEDURE (TLCP). c. SPECIES: CMC SOUTHERN YELLOW PINE GRADE No. 1 / No. 2, BENDING (Fb) MINIMUM 1,200 psi, DRESSED 545.

I. KILN DRIED TO A MAXIMUM MOISTURE CONTENT OF NINETEEN PERCENT (19%) 2. AMPA USE CATEGORY: 2, ABOVE GROUND, INTERIOR DAMP

3. MINIMUM PRESERVATIVE RETENTION: O.17 pcf

d. CUTS AND BORED AREAS TREATED IN COMPLIANCE WITH AMPA STANDARD M4; BRUSH COAT

WITH A COPPER NAPHTHENATE SOLUTION. e. USE WHERE LUMBER IS IN CONTACT WITH EARTH, CONCRETE AND/OR CONCRETE MASONRY IN

ACCORDANCE OBC SECTION 2304.II. FASTENERS MUST BE GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER, IN ACCORDANCE WITH OBC SECTION 2304.10.5.

0606. CONSTRUCTION PANELS / PLYWOOD

a. WHEN REQUIRED, SUB-FLOORING: APA RATED SHEATHING, SPAN RATING 32/16, TONGUE AND GROOVE, EXTERIOR GLUE, CONFORMING WITH PS 1-95 SPECIFICATIONS. THICKNESS AS NOTED ON

I. INSTALL IN ACCORDANCE WITH U.L. DESIGN FIRE RESISTANCE RATING DETAILS AS SHOWN ON THE DRAWINGS. WHEN REQUIRED, UNDERLAYMENT: APA UNDERLAYMENT INT WITH EXTERIOR GLUE OR APA

UNDERLAYMENT CC PLUGGED EXT, SQUARE EDGE, CONFORMING WITH PS 1-95 SPECIFICATIONS. THICKNESS AS NOTED ON DRAWINGS. I. INSTALL IN ACCORDANCE WITH U.L. DESIGN FIRE RESISTANCE RATING DETAILS AS SHOWN ON

THE DRAWINGS WHEN REQUIRED, ROOF SHEATHING: APA STRUCTURAL | & | RATED SHEATHING EXT. SPAN RATING AS REQUIRED, CONFORMING WITH PS 1-95 SPECIFICATIONS. THICKNESS AS NOTED ON DRAWINGS. OSB IS NOT ACCEPTABLE FOR ROOF SHEATHING.

d. WALL SHEATHING AND SEISMIC DIAPHRAGM BRACING: APA RATED SHEATHING EXT, SPAN RATING 32/16, CONFORMING WITH PS 1-95 SPECIFICATIONS. THICKNESS AS NOTED ON DRAWINGS.

e. ELECTRICAL AND TELEPHONE EQUIPMENT BACKING PANELS: APA AC EXT, FIRE RETARDANT

TREATED (FRTW) PLYWOOD, 3/4 INCHES MINIMUM THICKNESS. WHEN REQUIRED, PRESERVATIVE TREATED (P.T.) PLYWOOD: APA STRUCTURAL I & II RATED SHEATHING APA SOUTHERN PINE CDX, CCA TREATED, O.60 lb. PER CU. FT. DRY CHEMICAL RETENTION. FURNISH THE FOLLOWING: UC2-INTERIOR DAMP; UC3B-ABOVE GROUND EXPOSED; UC4A-GROUND/EARTH CONTACT GENERAL USE; UC4B-GROUND/EARTH CONTACT HEAVY DUTY;

UC4C-GROUND/EARTH CONTACT EXTREME DUTY. EXCEPT WHEN PLYWOOD PANELS ARE SPECIFIED, CONSTRUCTION PANELS INCLUDING ORIENTED STRAND BOARD (OSB), AND COMPOSITE STRUCTURAL PANELS, (COM-PLY) MEETING APA PRP-108 PERFORMANCE STANDARDS WILL BE ACCEPTABLE FOR CONSTRUCTION PANELS. REFERENCE

STRUCTURAL DRAWINGS. WHEN REQUIRED, UNDERLAYMENT BOARD: INSTALL "RECOVERY BOARD" FOR MEMBRANE ROOFING IN ACCORDANCE WITH ROOFING MANUFACTURER'S PUBLISHED SPECIFICATIONS AND DETAILS. FURNISH UNDERLAYMENT BOARD OF HIGH DENSITY WOOD FIBERBOARD WITH ASPHALT COATED FACING, I/2 INCHES THICK IN MANUFACTURER'S STANDARD PANEL SIZES: I. COMPRESSIVE STRENGTH: 32 psi.

2. DENSITY: 15.5 PCF. 3. R VALUE: 1.23

0607. ENGINEERED WOOD PRODUCTS

 a. TRUS-JOIST McMILLIAN CORP. "MICRO=LAM" LAMINATED VENEER LUMBER (LVL) BEAMS, HEADERS; ETC. OR APPROVED EQUAL. FURNISH DIMENSIONS AND SIZES INDICATED.

FURNISH DOUGLAS FIR VENEER LUMBER GLUED IN A CONTINUOUS PROCESS WITH ALL GRAIN PARALLEL WITH LENGTH OF MEMBER. BEAMS SHALL BE SINGLE ONE-PIEGE LENGTH, FREE OF FINGER JOINTS, SCARF JOINTS OR BEAMS SHALL BE SINGLE ONE-PIEGE LENGTH, FREE OF FINGER JOINTS, SCARF JOINTS OR MECHANICAL CONNECTIONS IN FULL LENGTH OF MEMBERS. --- FURNISH DESIGN STRESSES AS FOLLOWS:

1. EXTREME FIBER STRESS IN BENDING (Fb): 2,400 psi (FOR 12 INCHES DEEP MEMBERS).

2. MODULUS OF ELASTICITY (E): 2,000,000 psi. 3. TENSION PARALLEL TO GRAIN (Ft): 1,850 psi. 4. COMPRESSION PARALLEL TO GRAIN (Fc): 2,900 psi.

5. COMPRESSION PERPENDICULAR TO GRAIN: 880 psi PERPENDICULAR AND PARALLEL TO -6. HORIZONTAL SHEAR (Fv): 290 psi PERPENDICULAR AND PARALLEL TO GLUE LINE.

c. TRUS-JOIST McMILLIAN CORP. PREFABRICATED WOOD "I" JOISTS (TJI) OR APPROVED EQUAL. FURNISH DIMENSIONS AND SIZES INDICATED WITH FLANCES NOT LESS THAN 1-1/2 INCHES WIDE. FURNISH UNITS MANUFACTURED BY BONDING STRESS-GRADED LUMBER FLANGES TO APA-PERFORMANCE-RATED PANEL WEBS WITH EXTERIOR-TYPE ADHESIVES COMPLYING WITH ASTM D2554, TO PRODUCE "I" SHAPED JOISTS COMPLYING WITH THE FOLLOWING REQUIREMENTS:

- I. FLANGE MATERIAL: JOIST MANUFACTURER'S STANDARD. 2. WEB MATERIAL: JOIST MANUFACTURER'S STANDARD. 3. ALLOWABLE DESIGN STRESSES: AS PUBLISHED BY THE MANUFACTURER, DETERMINED

ACCORDING TO ASTM D5055, AND DEMONSTRATED BY COMPREHENSIVE TESTING PERFORMED BY QUALIFIED INDEPENDENT TESTING LABORATORY. d. ADHESIVES TO BE ASTM D2559 WATERPROOF TYPE.

LAMINATED DECKING AT GLULAM TRUSSES FOUR PLY, 2 7/8" x 7", CENTER TONCUE AND VEE-GROOVE ON BOTH EDGES AND ENDS FOR

CENTER MATCHING AND END MATCHING. FLUSH ENDS AT EAVES AND RIDGE. 2. SOUTHERN PINE, WITH 'SUPREME' CLEAR FACE, SMOOTH SURFACED. 3. 10% TO 15% MOISTURE CONTENT

4. 100% WATERPROOF ADHESIVE, PER ASTM D2559. CURE UNDER PRESSURE USING HIGH FREQUENCY ELECTRONICS IN RADIO FREQUENCY PRESS. 5. MANUFACTURING PROCESS TO MEET ASTM/AITC A 190.1

6. PROVIDE FACTORY APPLIED FINISH, OVEN DRIED, ACRYLIC SEMI-TRANSPARENT COLOR AS SELECTED FROM MFR'S STANDARD RANGE.

1. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. 8. PRODUCT: LOCK DECK OR APPROVED EQUAL.

EXPOSED GLULAM ROOF TRUSS AND EAVE MEMBERS PRESSURE TREATED SOUTHERN PINE, 24F-V5 OR DOUGLAS-FIR / HEM-FIR 24F-VIO. 2. SUBMIT SHOP DRAMINGS ILLUSTRATING PROPOSED FABRICATION OF TRUSSES, CONNECTOR

PLATES, BOLTS, ETC AS SHOWN ON THE DRAWINGS. 3. FIELD MEASURE ALL AS-BUILT CONDITIONS AT EACH TRUSS LOCATION PRIOR TO

FABRICATION. 4. FACTORY APPLIED PRESSURE TREATING 4.1. AIR BORNE, TWO COMPONENT, MINERAL SPIRITS-BASED, COLORLESS, HIGH DECAY RESISTANT, TERMITE RESISTANT, ODORLESS, NON-FASTENER-REACTIONARY PRESSURE TREATMENT - ROSBORO HI CLEAR II OR APPROVED EQUAL.

4.I.I. RETENTION LEVEL OF .055 COMBINED PFC. 4.1.2. GOPPER NAPHTHENATE AND WATERBORNE PRESSURE TREATING ARE NOT

4.2. PRIOR TO TRUSS FABRICATION, CONTRACTOR TO PRESSURE TREAT ALL FIELD CUTS,

BORES, ETC TO TRUSS MEMBERS PRIOR TO TRUSS FABRICATION. 5. Stain all truss members with oil based stain and seal with clear sealer - FACTORY APPLY PRIOR TO TRUSS FABRICATION. STAIN COLOR AS SELECTED.

a. PROVIDE FACTORY FABRICATED PRE-ENGINEERED WOOD ROOF TRUSSES AND GIRDERS AS SHOWN THE DRAWINGS AND NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH TRUSS PLATE INSTITUTE (TPI) DESIGN SPECIFICATIONS ANSI/TPI I-2007, NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION AND SUPPLEMENT (ANSI/AF&PA NDS 2005), AND SECTION 2303.4, OBC.

b. MATERIALS . DIMENSIONAL LUMBER: SPECIES PER DESIGN BY TRUSS MANUFACTURER; No. 2 GRADE OR BETTER, 15% MAXIMUM MOISTURE CONTENT.

2. CONNECTIONS: ALL INTERNAL CONNECTIONS ARE TO BE DESIGNED BY THE TRUSS FABRICATOR. METAL CONNECTOR PLATES TO BE GALVANIZED SHEET STEEL ASTM A446, GRADE A COATING GLASS G 60 3. HANGERS AND SEATS: ALL TRUSS TO TRUSS HANGERS, GIRDER TO COLUMN SEATS ARE TO

BE DESIGNED AND PROVIDED BY THE TRUSS FABRICATOR. c. DESIGN.

REFERENCE STRUCTURAL DRAWINGS FOR LOADING REQUIREMENTS AND ADDITIONAL INFORMATION. 2. IN ADDITION TO THE UNIFORM LOADS INDICATED ON THE DRAWINGS, DESIGN TRUSSES AND GIRDERS FOR ALL SUPERIMPOSED DEAD LOADS INCLUDING BUT NOT LIMITED TO OVERLAY

FRAMING, CHIMNEYS, MECHANICAL EQUIPMENT, ETC. 3. DESIGN OF MEMBERS AND CONNECTIONS IS TO BE BY A PROFESSIONAL ENGINEER. REGISTERED IN OHIO, EXPERIENCED IN SIMILAR DESIGNS, RETAINED BY THE FABRICATOR. 4. THE DESIGN OF ALL HANGER CONNECTIONS AND SEATS SHALL BE THE RESPONSIBILITY OF

THE TRUSS SUPPLIER/FABRICATOR. REQUIRED SUBMITTALS

I. SUBMIT TRUSS SHOP DRAWINGS WHICH EXHIBITS THE SEAL OF THE ENGINEER RESPONSIBLE FOR THE TRUSS DESIGN.

2. SUBMIT FLOOR PLAN LAYOUT DRAWING WHICH INDICATES THE LOCATION OF EACH TRUSS SUBMIT HANGER CONNECTOR AND SEATS TYPES AND LOCATIONS.

SUBMIT BRACING OF TRUSSES COMPONENTS AND REQUIREMENTS. e. DESIGN TRUSS LOADINGS TOP CHORD DEAD LOAD: 10 psf

TOP CHORD LIVE LOAD: 25 psf . BOTTOM CHORD DEAD LOADING: 10 psf 4. TOP CHORD NET WIND UPLIFT: 10 psf

TRUSS MANUFACTURER TO SUBMIT ERECTION PLAN AND SHOP DRAWINGS, BEARING THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF OHIO CONFORMING TO THE DESIGN CRITERIA SPECIFIED HEREIN, FOR REVIEW PRIOR TO FABRICATION. SUBMITTED DATA TO CONTAIN:

DESIGN LOADINGS AND ALLOWABLE STRESS INCREASES EMPLOYED CALCULATED TRUSS MEMBER STRESSES

3. RATED LOAD CAPACITY OF THE TRUSS MEMBER CONNECTION 4. SIZE, SPECIES, AND STRESS-GRADE OF LUMBER EMPLOYED

5. FABRICATION DETAILS INDICATING LOCATION OF CONNECTORS 6. PERMANENT BRIDGING/BRACING MEMBERS, LOCATIONS AND DETAILS HANDLING AND ERECTION INSTRUCTIONS

TRUSS-TO-TRUSS CONNECTION DETAILS

q. FAILURE TO FURNISH ANY OF THE ABOVE REQUIRED DATA WILL BE REGARDED AS AMPLE REASON FOR THE REJECTION OF THE SHOP DRAWINGS. THE CONTRACTOR SHALL APPROVE FABRICATION DRAWINGS INDICATING SIZE, SHAPE AND LAYOUT PRIOR TO SUBMITTAL FOR REVIEW BY THE ARCHITECT AND THE ARCHITECT'S CONSULTANT.

h. CONNECTOR PLATES TO BE DESIGNED BY TRUSS FABRICATOR. ALL PLATES SHALL BE A MINIMUM OF 0.036 INCHES IN THICKNESS, UNLESS NOTED OTHERWISE, AND SHALL BE MANUFACTURED FROM MATERIAL MEETING THE REQUIREMENTS OF ASTM A446, GRADE A STEEL. PLATES TO BE GALVANIZED IN ACCORDANCE WITH THE ASTM A525 G-60 SPECIFICATIONS.

0609. HANDLE AND ERECT PRE-ENGINEERED WOOD TRUSSES FURNISHED UNDER THIS DIVISION. PROVIDE ALL OTHER MATERIAL NOT PROVIDED BY THE TRUSS MANUFACTURER. BRACING FOR TRUSSES AND THE INSTALLATION OF SAME SHALL BE IN STRICT ACCORDANCE WITH TPI'S "BRACING WOOD TRUSSES: COMMENTARY AND RECOMMENDATIONS" BWT-76, AND THE TRUSS MANUFACTURER'S PROCEDURES AND SPECIFICATIONS.

a. INSTALL ALL PERMANENT BRACING AND COMPONENTS PRIOR TO APPLICATION OF LOADS TO

SEE STRUCTURAL PLANS FOR ADDITIONAL STRUCTURAL SPECIFICATIONS AND INFORMATION. WHERE THOSE STRUCTURAL REQUIREMENTS CONFLICT WITH THE SPECS ON THIS SHEET, IN ALL CASES THE MOST

STRINGENT SHALL APPLY.

0610. MISCELLANEOUS FRAMING REQUIREMENTS USE CONTINUOUS, STAGGERED, SOLID WOOD BLOCKING AT MID-HEIGHT, UP TO 66 INCHES O.C MAXIMUM, FOR ALL EXTERIOR LOAD-BEARING WOOD FRAMED WALLS, MATCH STUD DEPTH.

b. PROVIDE TRIPLE STUDS AT CORNERS, DOUBLE JACK BEARING STUDS UNDER EACH END OF BEAMS, DOUBLE EXTERIOR AND INTERIOR LOAD-BEARING WALLS AND PARTITIONS, MATCH STUD WIDTH. JACK BEARING STUDS WITH ONE KING STUD UNDER EACH END OF INTERIOR HEADERS, AND DOUBLE JACK BEARING STUDS WITH DOUBLE-KING STUD UNDER EACH END OF EXTERIOR HEADERS, UNLESS OTHERWISE NOTED. SEE DRAWINGS.

c. PROVIDE A SINGLE, SILL/SOLE PLATE AT THE BOTTOM AND A DOUBLE PLATE AT THE TOP OF ALL STUD WALLS, MATCH STUD WIDTH.

I. SILL/SOLE PLATES ON MASONRY WALL OR CONCRETE SLAB SHALL BE PRESERVATIVE TREATED WOOD AND SHALL BE ANCHORED TO THE FOUNDATION WALL IN ACCORDANCE WITH THE DRAWINGS. TYPES AND PLACEMENT OF SILL/SOLE PLATE ANCHORING DEVICES SHALL CONFORM TO THE REQUIREMENTS OF OBC SECTION 2308.6, UNLESS OTHERWISE NOTED. SEE 0622. FIBERGLAS REINFORCED POLYESTER (FRP) COLUMN ENCLOSURES AND PANELS

d. WOOD BEAMS AND LINTELS SHALL BE SINGLE ONE-PIECE LENGTH, FREE OF FINGER JOINTS, SCARF JOINTS OR MECHANICAL CONNECTIONS IN FULL FURNISH WOOD HEADERS OVER OPENINGS IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS. UNLESS OTHERWISE NOTED, PROVIDE PLYWOOD WALL SHEATHING ON ALL WOOD FRAMED

EXTERIOR WALLS, CORNICES, PARAPETS, ETC. q. FURNISH AND INSTALL WOOD BRIDGING, BLOCKING, BRACING, ETC. FOR PRE-ENGINEERED WOOD ROOF TRUSSES AND WOOD FLOOR TRUSSES AS INDICATED ON THE TRUSS FABRICATOR'S REVIEWED SHOP DRAWINGS.

h. PROVIDE ALL ROUGH CARPENTRY COMPONENTS FOR WOOD BARRICADES, BRACING, BLOCKING, ETC., AS NEEDED OR REQUIRED TO COMPLETE THE WORK. PROVIDE DRAFTSTOP IN ACCORDANCE WITH OBC AND/OR AS INDICATED ON THE DRAWINGS. PAINT STENCIL "DRAFTSTOP-SEAL ALL PENETRATIONS" A MINIMUM OF FOUR FEET APART IN ANY

0611. UNLESS OTHERWISE NOTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPERLY DESIGNED CONNECTORS FOR THE END SUPPORT OF ALL WOOD FRAMED MEMBERS. AS A MINIMUM, ALL FASTENER CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF OBC SECTION 2304 AND THE FASTENING SCHEDULE LISTED IN OBC TABLE 2304.10.1.

a. JOIST TO BEAMS, 16 GA. GALVANIZED JOIST HANGERS BY SIMPSON STRONG-TIE CO. PROVIDE SLOPED AND/OR SKEWED HANGERS WHERE REQUIRED. b. PROVIDE (I) PLYWOOD SUPPORT CLIP, BY SIMPSON STRONG-TIE CO., AT PANEL EDGES AND

EACH ROOF TRUSS BAY c. PROVIDE GALVANIZED STEEL CONNECTORS, WITH STEEL GAUGE AS NOTED, FOR WOOD FRAMING AS MANUFACTURED BY SIMPSON "STRONG-TIE" COMPANY. USE ONLY FASTENERS AS REQUIRED

BY THE MANUFACTURER.

a. PROVIDE BOLTS, PLATES, ANCHORS, HANGERS AND OTHER MISCELLANEOUS STEEL AND IRON SHAPES AS REQUIRED FOR WOOD FRAMING AND SUPPORTING OF WOODWORK, AND FOR ANCHORING OR SECURING FRAMING AND/OR MOODWORK TO CONCRETE, MASONRY, STEEL OR

b. PROVIDE SIZE, TYPE, MATERIAL AND FINISH REQUIRED FOR NAILS, SCREWS, BOLTS, NUTS, WASHERS AND ANCHORING DEVICES. PROVIDE REQUIRED FINISH AS SPECIFIED BY THE PRESERVATIVE TREATMENT MANUFACTURER.

c. FURNISH ALL FASTENERS, BOLTS, NUTS, WASHERS, ETC. TO INSTALL DOORS AND WINDOWS AS INDICATED AND SPECIFIED UNDER DIVISION OB OF THE GENERAL NOTES. d. ALL EXTERIOR FASTENINGS, NAILS, ETC., TO BE NON-STAINING AND NON-CORROSIVE.

 e. INSTALL ROUGH HARDWARE OF EVERY KIND AND DESCRIPTION TO COMPLETE THE WORK. f. Furnish and install New and existing relocated finish door hardware as scheduled in ACCORDANCE WITH DIVISION 08 OF THE GENERAL NOTES.

0613. FINISH CARPENTRY AND MILLWORK SHALL COMPLY WITH THE STANDARDS OF "CUSTOM" QUALITY IN ACCORDANCE WITH THE ARCHITECTURAL WOODWORK INSTITUTE STANDARDS, TITLED, "ARCHITECTURAL WOODWORK QUALITY STANDARDS," LATEST EDITION. MILLWORK SUPPLIER / INSTALLER SHALL PROVIDE AND INSTALL FINISH HARDWARE AND COMPONENTS FOR ALL CABINETS.

 a. FURNISH ALL NECESSARY/REQUIRED 2x (NOM.) WOOD BLOCKING FOR ANCHORING, GRAB BARS, RECESSED ITEMS, SURFACE MOUNTED ITEMS, EQUIPMENT, ETC. b. PROVIDE ALL HARDWARE REQUIRED FOR PROPERLY OUT-FITTED CASEWORK.

FABRICATE AND INSTALL FINISHED CARPENTRY WORK PROPERLY FRAMED, CLOSELY FITTED AND ACCURATELY SET TO REQUIRED LINES AND LEVELS AND RIGIDLY SECURED IN PLACE. d. Install work straight, plumb, level and in true alignment; shim as required, concealing SHIMS; NEATLY AND ACCURATELY FITTED, SCRIBED AND THOROUGHLY SECURED.

e. MITERS AND OTHER JOINTS SHALL BE PLANED AND SANDED. F. ALL WORK SHALL BE LEFT CLEAN AND FREE FROM WARP, TWIST, OPEN JOINTS AND OTHER

INSTALL STANDING AND RUNNING TRIM AND MILLWORK WITH MINIMUM NUMBER OF JOINTS USE FULL LENGTH PIECES, FROM MAXIMUM LENGTH OF MATERIAL AVAILABLE. STAGGER JOINTS IN ADJACENT AND RELATED MEMBERS. COPE AT RETURN, MITER AT CORNERS AND COMPLY WITH "QUALITY STANDARDS" FOR JOINERY.

4. BUTT JOINTS, EXCEPT AS DETAILED, ARE NOT ACCEPTABLE. h. INTERIOR MATERIAL: SHAPED, UNFINISHED POPLAR; S4S; GRADE B SELECT. 1. BASE: KL299 BY CAPITAL CITY MILLWORKS OR EQUAL; 11/16 INCHES X 5-1/2 INCHES AS

SELECTED BY OWNER. 2. DOOR CASING: KLII3 BY CAPITAL CITY MILLWORK OR EQUAL; 3/4 INCHES X 3-1/2 INCHES AS SELECTED BY OWNER.

3. CROWN MOLDING: CAPITAL CITY MILLWORK, COLS, OH. OR EQUAL AS SELECTED BY ARCH.

- 3.2 NOMINAL 5" CROWN MOLDING - #KL 315 4. PICTURE RAIL MOLDING: CAPITAL CITY MILLWORK OR EQUAL. PROFILE KL 1519. SECURE TO CONCEALED CONTINUOUS 2x6 HORIZ BLOCKING IN WALL WITH 2 1/4" FINISH SCREWS AT 12" OC..

5. SEE ARTICLE 1211 ON SHEET CN,4 FOR STAINED WOOD CRASH RAIL INFO. 6. STAIN AND VARNISH ALL WOOD TRIM, COLOR AS SELECTED. 7. PROTECT INSTALLED FINISH CARPENTRY MATERIALS AND MILLWORK UNTIL FINAL

ACCEPTANCE BY THE ARCHITECT. 0614. PROVIDE EXTERIOR DECORATIVE WOOD TRIMS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN. a. EXTERIOR MATERIAL: MATCH SAME MATERIAL AS FIBER CEMENT WOOD SIDING SPECIFIED IN

DIVISION OF OF THE GENERAL NOTES. b. FASTENERS: AS RECOMMENDED BY THE MANUFACTURER. c. INSTALL WITH MINIMUM NUMBER OF JOINTS UTILIZING FULL LENGTH PIEGES FROM MAXIMUM LENGTH OF MATERIAL AVAILABLE. STAGGER JOINTS IN ADJACENT AND RELATED MEMBERS. COPE AT

- RETURN, MITTER AT CORNERS AND COMPLY WITH "QUALITY STANDARDS" FOR JOINERY. BUTT JOINTS, EXCEPT AS DETAILED, ARE NOT ACCEPTABLE. d. EXTERIOR TRIMS SHALL BE PAINTED AS INDICATED ON THE DRAWINGS. FOLLOW

- MANUFACTURER'S RECOMMENDATIONS FOR PROPER PREPARATION AND APPLICATION. REFERENCE DIVISION 09 OF THE GENERAL NOTES. e. APPLY SEALANT FOR COSMETIC, AIRTIGHT AND WATERTIGHT INSTALLATION. REFERENCE - DIVISION OF THE GENERAL NOTES.

0615. FURNISH AND INSTALL SHOP FABRICATED CASEMORK (CABINETS) AND CABINET HARDWARE, AND PLASTIC LAMINATED COUNTER-TOPS, BACK-SPLASHES AND SIDE-SPLASHES SPECIFIED UNDER

F. SEAL CUT ENDS OF EXTERIOR MATERIAL AS RECOMMENDED BY THE MANUFACTURER.

DIVISION 12 OF THE GENERAL NOTES. a. FURNISH CUT-OUTS, USING TEMPLATES, FOR PLUMBING FIXTURES, ELECTRICAL DEVICES, ETC. b. TEMPLATES TO BE PROVIDED BY THE RESPECTED TRADE REQUIRING THE CUT-OUT. IN LIEU OF PLASTIC LAMINATE COUNTER-TOPS, AND IF ONLY SELECTED BY THE OWNER, PROVIDE SOLID SURFACE COUNTER-TOP AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH

COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION. a. MATERIALS: - I. SOLID POLYMER FABRICATED RESIN: FACTORY FABRICATED COMPONENTS TO ACHIEVE REQUIRED SHAPES, SIZES, AND PROFILES WITHOUT CRACKS, SPALLING, PITS, SURFACE

POROSITY, CHIPPED AREAS, OR BLISTERS. a) COUNTER-TOP THICKNESS: 3/4 INCHES.

b) counter-top face thickness: I-I/2 inches. d) RADIUS CORNERS AND EDGES.

2. BONDING ADHESIVES: TWO PART ADHESIVE WITH COLOR MATCHING SOLID POLYMER FABRICATION AND OF TYPE AS RECOMMENDED BY SOLID POLYMER FABRICATION MANUFACTURER FOR JOINING APRONS, END AND BACK-SPLASHES TO TOPS. 3. SEALANTS: SANITARY SILICONE SEALANT IN ONE COLOR AS SELECTED BY OWNER;

c. MANUFACTURER: DUPONT, CORIAN OR EQUAL. d. VERIFY ALL MEASUREMENTS IN THE FIELD AFTER THE INSTALLATION OF GYPSUM BOARD. e. Install counter-tops and splashes in strict accordance with manufacturer's printed INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

I. INSTALL PLUMBING FIXTURES AND MAKE PLUMBING CONNECTIONS IN ACCORDANCE WITH THE

0617 PRE-FABRICATED WOOD STAIR ASSEMBLY a. FURNISH AND INSTALL FACTORY FABRICATED WOOD STAIR ASSEMBLY WHERE SHOWN ON THE — DRAWINGS. FURNISH COMPLETE ASSEMBLY WITH TREAD, CLOSED RISER AND SIDE APRONS. b. STAIR LOADING: 100 psf LIVE LOAD.

c. WOOD SPECIES FOR ENTIRE ASSEMBLY: SYPI No. 1 / No. 2, 15% MAXIMUM

- MOISTURE CONTENT, PAINT / STAIN GRADE. d. MINIMUM BOARD THICKNESS FOR STAIR ELEMENTS: I. TREAD: I-I/4 INCHES THICK

2. SIDE APRON: I-I/4 INCHES THICK

b. COLOR AND STYLE: SELECTED BY ARCHITECT.

PLUMBING DRAWINGS AND SPECIFICATIONS.

3. RISER: 3/4 INCHES THICK 4. OR FABRICATORS BOARD THICKNESS'S TO WITHSTAND THE SPECIFIED LIVE LOAD. e. STAIR NOSING AND TREAD SHALL BE IN COMPLIANCE WITH ANGI/ICG AIIT.I-2009. REFERENCE DIVISION OF THE GENERAL NOTES.

0618. INSTALL THE EXTERIOR GYPSUM BOARD SHEATHING FURNISHED UNDER DIVISION 09 OF THE GENERAL 0704. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION

0619. FURNISH AND INSTALL CARPENTRY RELATED ITEMS SUCH AS INSULATION IN CAVITIES TO BE COVERED WITH WOOD FRAMING COMPONENTS OR COVERING WOOD FRAMING COMPONENTS (I.E. PARTITION INTERSECTIONS AT EXTERIOR WALLS, INFILTRATION BARRIERS, ROOF FELTS, ETC.), CAULKING, ADHESIVES, SILL SEAL, SHIMS, ETC., WHETHER OR NOT INDICATED ON THE DRAWINGS.

0620. INSTALL ITEMS SUCH AS TOILET ACCESSORIES, METAL LOCKERS, FIRE EXTINGUISHER CABINETS, FIRE EXTINGUISHERS AND SIGNAGE FURNISHED UNDER DIVISION IO OF THE GENERAL NOTES.

0621. INSTALL DOORS, DOOR FRAMES AND DOOR HARDWARE, AND BORROWED LITES, FURNISHED UNDER DIVISION 08 OF THE GENERAL NOTES.

I. FURNISH AND INSTALL DECORATIVE, NON-LOAD BEARING, HALF ROUND FRP COLUMN COVERS

FINISH GEL COAT CONTAINING A UV INHIBITOR, 25% FIBER, 75% RESIN MIX. 2.a. RESIN TO HAVE ASTM E-84, CLASS I FLAME SPREAD RATING AND SMOKE DENSITY 2b. FRO TI COMPLY WITH THE REQMTS OF OHIO BUILDING CODE CHAPTERS 8 AND 26 3. SUBMIT MFR'S ENGINEERED SHOP DRAWINGS FOR FABRICATION AND INSTALLATION. INCLUDE PLANS, ELEVATIONS, SECTIONS, PROFILES AND DETAILS OF COMPONENTS AND

2. FRP TO BE MANUFACTURED FROM RESINS REINFORCED WITH CHOPPED GLASS FIBERS, WITH

MISCELLANEOUS ACCESORIES AS REQD FOR A COMPLETE AND STABLE INSTALLATION. 3.a. SHOP DWGS TO INDICATE DIMENSIONS OF EACH PROFILE AND COMPONENT AS DETAILED ON THE ARCHITECT'S DRAWINGS. INCLUDE MFR'S INSTRUCTIONS FOR CONNECTIONS TO CONCEALED SUBSTRATE OR BLOCKING. 3b. MFR TO ENGINEER THICKNESS OF FRP, AND INTERNALLY FORMED CONCEALED RIBS,

DEFORMATION FROM IMPACT, AND RESISTANCE TO DEFORMATION FROM 250 LBS HORIZONTAL LOAD AT ANY POINT ON THE UNIT. 3.c. MFR'S DESIGN TO INCLUDE: 3.c.a. ALL INTERNAL METAL REINFORCEMENT, ANCHORAGE CLIPS, BRACKETS AND ALL

PILASTERS, ETC AS REQD TO PROVIDE RESISTANCE TO WARPING, RESISTANCE TO

AREAS AND MAT OF SUFFICIENT THICKNESS AS REQUIRED. 4. SUBMIT MFR'S WRITTEN ONE YEAR WARRANTY FROM SITE DELIVERY DATE AGAINST DEFECTS OF MATERIALS AND WORKMANSHIP

OTHER BUILT-IN ACCESSORIES AND ADDITIONALLY REINFORCED GLASS FIBER

5. SUBMIT SAMPLE FOR ARCHITECT'S REVIEW OF PAINT-READY GEL FINISH, INTERNAL REINFORCING METHODS, AND ATTACHMENT FLANGES. 6. FINISHED COMPONENTS TO BE TRUE TO LINE, LEVEL AND PLUMB, FREE OF WARPS, TWISTS, WAVES OR DISTORTIONS WITH ALL RECESSED GROOVES, TABS, ETC AND FACTORY FABRICATED COUNTERSUNK HOLES FOR INSTALLATION FASTENERS. FINISH GEL COAT TO BE FACTORY SMOOTH, DELIVERED TO THE PROJECT SITE FREE OF ANY IMPERFECTION, READY

6.a. MFR TO PACKAGE PRODUCT FOR DAMAGE-FREE TRANSPORT. PRODUCT THAT IS RECEIVED AND UNPACKED ON SITE AND IS FOUND DEFECTIVE IN ANY WAY WILL BE RETURNED AND REPLACED IN-KIND BY MFR AT MFR'S COST. 4. ALL COMPONENTS DELIVERED TO JOB SITE TO BE NUMBERED ON CONCEALED FACE AND

KEYED TO MFR-SUPPLIED INSTALLATION INSTRUCTIONS. PRIOR TO INSTALLATION, CONTRACTOR TO PROVIDE FULL HEIGHT HALF ROUND AND FLAT PANEL MOCK-UPS, SECURED TO PORTABLE SUBSTRATES. PAINT COLORS AS SELECTED BY ARCHITECT. REWORK SAMPLE AS READ TO OBTAIN OWNER'S APPROVAL OF THE QUALITY OF GEL PATCHES AND PAINT APPLICATION. AGGEPTED SAMPLES SHALL BE MAINTAINED ON SITE AS STANDARDS FOR ALL OTHER INSTALLED AND FINISHED UNITS.

6. INSTALLER TO SECURE PANELS TO CONCEALED BLOCKING OR SUBSTRATE PER MANUFACTURER'S INSTRUCTIONS THROUGH RECESSED REVEALS WITH COUNTERSUNK FLATHEAD STAINLESS STEEL FASTENERS. PATCH ALL COUNTERSUNK ATTACHMENT HOLES WITH GEL FILL FINISH KIT SUPPLIED BY FRP MFR FOR FIELD APPLICATION. FINE SAND ALL DRIED AND CURED PATCHES PER MFR'S INSTRUCTIONS TO BLEND WITH ADJACENT SURFACES FOR SEAMLESS APPEARANCE, READY FOR PAINT APPLICATION.

7. PAINT FRP PANELS AND HALF-ROUNDS COLUMNS COLOR AS SELECTED. RECESSED GROOVES TO BE DIFFERENT COLOR THAN FIELD COLOR. FRP UNITS AT EACH CLINIC ENTRY WILL HAVE A DIFFERENT COLOR PALETTE. CLEAN ALL SMUDGES, DIRT, GRIME, ETC FROM UNITS PRIOR TO PAINTING, USING MFR'S RECOMMENDED CLEANING AGENTS. 8. MANUFACTURER AND PRODUCT:

8.a. PACIFIC CORPORATION, ENDURA-STONE 12" DIAMETER, TAPERED SHAFT WITH TUSCAN CAPITAL AND BASE, SMOOTH PAINTABLE FINISH OR EQUAL BY EDON CORPORATION, ELITE TRIMWORKS, OR APPROVED EQUAL.

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

0700. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THE GENERAL NOTES. a. SHEET WATERPROOFING SYSTEM b. THERMAL INSULATION

INTERIOR PARTITION ACOUSTICAL INSULATION (SOUND ATTENUATION BATT) d. VAPOR RETARDER SHEETS LIQUID SPRAYED APPLIED e. SELF-ADHERING POLYMER MODIFIED BITUMEN SHEETS f. GLASS FIBER / ASPHALT SHINGLES

q. WALL AND ROOF UNDERLAYMENT (FELT PAPER) h. METAL ROOF PANELS I. FIBER CEMENT WOOD SIDING AND TRIM

p. GUTTERS AND DOWN-SPOUTS

MEMBRANE ROOFING K. EXTERIOR INSULATION AND FINISH SYSTEM ENVIRONMENTAL, ACOUSTICAL, AND FIRE-RESISTANT SEALANTS

m. SOFFIT PANELS AND FASCIA n. ALL FLASHING WITH MANUFACTURER'S DETAILS FOR APPLICABLE SYSTEMS IN THE GENERAL o. -PARAPET COPING AND DETAILS FOR APPLICABLE SYSTEM IN HE GENERAL NOTES

THERMAL INSULATING MATERIALS SHALL BE IN ACCORDANCE WITH OBC CHAPTER 7. INSULATING MATERIALS SHALL HAVE A FLAME SPREAD RATING OF 75 OR LESS, AND SMOKE-DEVELOPED RATING OF 450 OR LESS. 0702. EXAMINE SUBSTRATES, STRUCTURE AND INSTALLATION CONDITIONS. DO NOT PROCEED WITH ANY

PORTION OF THE WORK UNDER THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN a. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE.

q. PROTECT INSTALLED FINISH CARPENTRY MATERIALS AND MILLWORK UNTIL FINAL ACCEPTANCE 0703. PROVIDE APPROPRIATE THERMAL INSULATION ASSEMBLIES FOR FOUNDATIONS, EXTERIOR WALLS, ATTIC SPACES AND SOUND ASSEMBLIES AS INDICATED ON THE DRAWINGS. INCLUDES NETTING, WIRE STAYS, VAPOR BARRIERS, SEAL TAPE AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED.

> a. INSTALL IN ACCORDANCE WITH THE REFERENCED ASTM AND MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

b. NO INSULATION SHALL CONTAIN FORMALDEHYDE.

c.b. INSTALL ACCORDING TO ASTM C 1320.

REQUIREMENTS.

c.c. MAXIMUM FLAME SPREAD 25, SMOKE DEVELOPED 50.

INSULATION TYPES: a. POLYISOCYANURATE ROOF INSULATION BOARDS - SEE ARTICLE 0706. b. FACED GLASS FIBER BLANKET INSULATION: ASTM C665 TYPE I, CLASSIFIED AS NON-COMBUSTIBLE IN ACCORDANCE WITH ASTM EI36. THICKNESS AND R-VALUE AS INDICATED.

b.b. MAXIMUM FLAME SPREAD 25, SMOKE DEVELOPED 50. c. MINERAL FIBER INSULATION: BLANKET ASTM C553; BLOCK AND BOARD ASTM C612; LIGHT FRAME CONSTRUCTION ASTM C665. THICKNESS AND R-VALUE AS INDICATED. c.a. MANUFACTURER: OWENS CORNING, CERTAINTEED, JOHNS MANVILLE

b.a. MANUFACTURER: OWENS CORNING, CERTAINTEED, JOHNS MANYILLE.

d. SOUND ATTENUATION: ASTM E413. PROVIDE THICKNESS REQUIRED FOR AN STC RATING OF 34 TO 39. d.a. MANUFACTURER: OWENS CORNING, CERTAINTEED, JOHNS MANYILLE d.b. SEALANT MANUFACTURER: USG OR APPROVED EQUAL. d.c. MAXIMUM FLAME SPREAD IO, SMOKE DEVELOPED IO.

d.d. AT SOUND ASSEMBLIES, PROVIDE SEALANT AT BASE OF WALL, ACOUSTICAL CEILING WALL

ANGLE AND WALL, FLOOR AND GYPSUM WALLBOARD CEILING PENETRATIONS. e. ENSURE TIGHT FIT AROUND ALL OBSTRUCTIONS AND FILL ALL VOIDS. F. COORDINATE WATER LINES LOCATED IN EXTERIOR WALLS. WATER LINE IS TO BE ENCAPSULATED IN INSULATION (PROVIDED UNDER DIVISION 22) AND LOCATED ON THE WARM SIDE OF THE WALL

a. PRIOR TO INSTALLATION, APPLY JOINT SEALANT, SPECIFIED IN THIS DIVISION, TO LOCATIONS

INDICATED BELOW. q.a. PENETRATIONS THROUGH EXTERIOR WALL SHEATHING. BOTTOM OF WALL FRAMING SILL PLATE ON EXTERIOR WALLS. VOIDS AROUND WINDOWS AND DOORS THAT ARE TOO NARROW FOR INSULATION.

h. REFERENCE OTHER SECTIONS OF THIS DIVISION FOR ADDITIONAL THERMAL INSULATION

a. AMERICAN ARCHITECTURE MANUFACTURERS ASSOCIATION (AAMA) I. AAMA 621, VOLUNTARY SPECIFICATIONS FOR HIGH PERFORMANCE ORGANIC COATING ON COIL COATED ARCHITECTURAL HOT-DIPPED GALVANIZED AND ZINC-ALUMINUM COATED STEEL

2. AAMA 2605, VOLUNTARY SPECIFICATION, PERFORMANCE REQUIREMENTS AND TEST PROCEDURES FOR SUPERIOR PERFORMING ORGANIC COATINGS ON ALUMINUM EXTRUSIONS AND

b. SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA)

I. SMACNA, ARCHITECTURAL SHEET METAL MANUAL c. CARLISLE SYNTEC SYSTEMS DR-05-II, INSULATION FASTENING PATTERNS

d. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

2. DR-08-II, WOOD NAILERS AND SECUREMENT CRITERIA

3. SPECIFICATION SUPPLEMENT 4. SYSTEM DETAILS

I. OSHA 29 CFR 1910 SUBPART D, WALKING, WORKING SURFACES, GENERAL INDUSTRY 2. OSHA 29 CFR 1910.28, SAFETY REQUIREMENTS FOR SCAFFOLDING, GENERAL INDUSTRY 3. OSHA 29 CFR 1926 SUBPART L, SCAFFOLDING, CONSTRUCTION INDUSTRY 4. OSHA 29 CFR 1926, SUBPART M, FALL PROTECTION, CONSTRUCTION

e. NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA) I. NRCA ROOFING MANUAL: MEMBRANE ROOFING SYSTEMS 2. NRCA ROOFING MANUAL: ARCHITECTURAL METAL FLASHING, CONDENSATION AND AIR

LEAKAGE CONTROL AND REROOFING F. SINGLE PLY ROOFING INDUSTRY (SPRI) I. ANSI/SPRI WD-I, WIND DESIGN STANDARD PRACTICES FOR ROOFING ASSEMBLIES

2. ANSI/SPRI ES-I, WIND DESIGN STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING

3. ANSI/SPRI FX-I, STANDARD FIELD TEST PROCEDURE FOR DETERMINING THE WITHDRAWAL RESISTANCE OF ROOFING FASTENERS I. FACTORY MUTUAL GLOBAL RESEARCH STANDARDS (FM)

I. FM 4474, AMERICAN STANDARD FOR EVALUATING THE SIMULATED WIND UPLIFT RESISTANCE OF ROOF ASSEMBLIES USING STATIC POSITIVE AND/OR NEGATIVE DIFFERENTIAL PRESSURES 2. PROPERTY LOSS PREVENTION DATA SHEET FM I-O, SAFEGUARDS DURING CONSTRUCTION, ALTERATION AND DEMOLITION

4. PROPERTY LOSS PREVENTION DATA SHEET FM I-29, ROOF DECK SECUREMENT AND ABOVE DECK ROOF COMPONENTS 5. PROPERTY LOSS PREVENTION DATA SHEET FM I-30, REPAIR FOR WIND DAMAGED ROOF

6. PROPERTY LOSS PREVENTION DATA SHEET FM 1-49, PERIMETER FLASHING 7. PROPERTY LOSS PREVENTION DATA SHEET FM 1-52, FIELD UPLIFT TESTS h. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

3. PROPERTY LOSS PREVENTION DATA SHEET FM I-28, WIND DESIGN

ANSI/EMI 99A, AMERICAN NATIONAL STANDARD FOR EXTERIOR INSULATION AND FINISH SYSTEM 2. ANSI/FM 4880, EVALUATING INSULATED WALL OR WALL AND ROOF/CEILING ASSEMBLIES; PLASTIC INTERIOR MATERIALS; PLASTIC EXTERIOR BUILDING PANELS; WALL/CEILING COATING SYSTEMS; INTERIOR OR EXTERIOR FINISH SYSTEMS

INTERNATIONAL CODE COUNCIL EVALUATION SERVICES, INC. (ICC ES) I. ICC ES AC219, ACCEPTANCE CRITERIA FOR INSULATION AND FINISH SYSTEMS UNDERWRITER'S LABORATORIES, LLC (UL)

I. UL 580, STANDARD TESTS FOR UPLIFT RESISTANCE OF ROOF ASSEMBLIES

2. UL 1897, STANDARD UPLIFT TESTS FOR ROOF COVERING MATERIALS k. DRYVIT SYSTEMS, INC. I. DS 131, POLYSTYRENE INSULATION BOARD SPECIFICATION

2. DS 152, CLEANING AND RECOATING

FOR THERMAL INSULATION

COLD LIQUID APPLIED SEALANTS

ROOFING AND WATERPROOFING

AS ROOF FLASHING

AND SURFACED WITH MINERAL GRANULES

3. DS 153, EXPANSION JOINTS AND SEALANTS 4. DS 167, DETAILS 5. DS 168, OUTSULATION MD SYSTEM SPECIFICATIONS 6. DS 169, APPLICATION INSTRUCTIONS

NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA)

I. NCMA 19-6A, JOINT SEALANTS FOR CONCRETE MASONRY WALLS m. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) I. ASTM AI53, STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL

2. ASTM AI61, STANDARD SPECIFICATION FOR STAINLESS AND HEAT-RESISTING CHROMIUM-NICKEL STEEL PLATE, SHEET AND STRIP 3. ASTM A653, STANDARD SPECIFICATION FOR STEEL SHEET, ZINC-COATED (GALVANIZED) OR ZINC-IRON ALLOW-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS

4. ASTM A755, STANDARD SPECIFICATION FOR STEEL SHEET, METALLIC COATED BY THE HOT-DIP PROCESS AND PRE-PAINTED BY THE COIL COATING PROCESS FOR EXTERIOR EXPOSED 5. ASTM B209, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY SHEET AND

FOR LIGHT FRAME CONSTRUCTION AND MANUFACTURED HOUSING

6. ASTM C578, STANDARD SPECIFICATION FOR RIGID, CELLULAR POLYSTYRENE THERMAL 7. ASTM C665, STANDARD SPECIFICATION FOR MINERAL-FIBER BLANKET THERMAL INSULATION

8. ASTM CTIT, STANDARD TERMINOLOGY OF BUILDING SEALS AND SEALANTS 9. ASTM C739, STANDARD SPECIFICATION FOR CELLULOSIC FIBER LOOSE-FILL THERMAL INSULATION IO. ASTM C764, STANDARD SPECIFICATION FOR MINERAL FIBER LOOSE-FILL THERMAL INSULATION

II. ASTM C834, STANDARD SPECIFICATION FOR LATEX SEALANTS 12. ASTM C919. STANDARD PRACTICE FOR USE OF SEALANTS IN ACOUSTICAL APPLICATIONS 13. ASTM C920, STANDARD SPECIFICATION FOR ELASTOMERIC JOINT SEALANTS

14. ASTM CIOI5, STANDARD PRACTICE FOR INSTALLATION OF CELLULOSIC AND MINERAL FIBER LOOSE-FILL THERMAL INSULATION 15. ASTM CII36, STANDARD SPECIFICATION FOR FLEXIBLE, LOW PERMEANCE VAPOR RETARDERS

16. ASTM CITT, STANDARD SPECIFICATION FOR GLASS MAT GYPSUM SUBSTRATE FOR USE AS SHEATHING 17. ASTM CII86, STANDARD SPECIFICATION FOR FLAT FIBER-CEMENT SHEETS 18. ASTM CII93, STANDARD GUIDE FOR USE OF JOINT SEALANTS

THERMAL INSULATION BOARD 20.ASTM CI320, STANDARD PRACTICE FOR INSTALLATION OF MINERAL FIBER BATT AND BLANKET THERMAL INSULATION FOR LIGHT FRAME CONSTRUCTION 21. ASTM CI330, STANDARD SPECIFICATION FOR CYLINDRICAL SEALANT BACKING FOR USE WITH

22.ASTM CI39T, STANDARD PRACTICE FOR APPLICATION OF CLASS PB EXTERIOR FINISH AND

19. ASTM CI289, STANDARD SPECIFICATION FOR FACED RIGID CELLULAR POLYISOCYANURATE

INSULATION SYSTEMS AND EIFS WITH DRAINAGE 23. ASTM CI472, STANDARD GUIDE FOR CALCULATING MOVEMENT AND OTHER EFFECTS WHEN ESTABLISHING SEALANT JOINT WIDTH 24. ASTM CI520, STANDARD GUIDE FOR PAINTABILITY OF LATEX SEALANTS 25. ASTM D226, STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT USED IN

26.ASTM DI970, STANDARD SPECIFICATION FOR SELF-ADHERING POLYMER MODIFIED BITUMINOUS SHEET MATERIAL USED AS STEEP ROOFING UNDERLAYMENT FOR ICE DAM PROTECTION 27. ASTM D2I78, STANDARD SPECIFICATION FOR ASPHALT GLASS FELT USED IN ROOFING AND **WATERPROOFING**

28.ASTM D3462, STANDARD SPECIFICATION FOR ASPHALT SHINGLES MADE FROM GLASS FELT

29. ASTM D4586, STANDARD SPECIFICATION FOR ASPHALT ROOF CEMENT 30.ASTM D4631, STANDARD SPECIFICATION FOR EPDM SHEET USED IN SINGLE-PLY ROOF 31. ASTM D4811, STANDARD SPECIFICATION FOR NONVULCANIZED (UNCURED) RUBBER SHEET USED

32. ASTM D4869, STANDARD SPECIFICATION FOR ASPHALT-SATURATED ORGANIC FELT UNDERLAYMENT USED IN STEEP SLOPE ROOFING 33. ASTM D6369, STANDARD GUIDE FOR DESIGN STANDARD FLASHING DETAILS FOR EPDM ROOF

34. ASTM D7186, STANDARD PRACTICE FOR QUALITY ASSURANCE OBSERVATION OF ROOF CONSTRUCTION AND REPAIR 35. ASTM E84, STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING 36. ASTM E413, CLASSIFICATION FOR RATING SOUND INSULATION

31. ASTM EI643, STANDARD PRACTICE FOR SELECTION, DESIGN, INSTALLATION AND INSPECTION OF WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS 38.ASTM EI745, STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN

CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS 39, ASTM E2430, STANDARD SPECIFICATION FOR EXPANDED POLYSTYRENE (EPS) THERMAL INSULATION BOARDS FOR USE IN EXTERIOR INSULATION AND FINISHING SYSTEM 40.ASTM E2511, STANDARD GUIDE FOR DETAILING OF EIFS-CLAD WALL ASSEMBLIES 41. ASTM F1667, STANDARD SPECIFICATION FOR DRIVEN FASTENERS: NAILS, SPIKES AND STAPLES

APPLICATION TO CARBON AND ALLOY STEEL BOLTS, SCREWS, WASHERS, NUTS AND SPECIAL

42.ASTM F2329, STANDARD SPECIFICATION FOR ZINC COATING, HOT-DIP REQUIREMENTS FOR

THREADED FASTENERS n. SEALANT, WATERPROOFING AND RESTORATION INSTITUTE (SWRI) I. SEALANTS: THE PROFESSIONAL'S GUIDE

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TITI 426 EAST MAIN STREET LANCASTER, OHIO 43130 (740) 654-4048 phone: facsimile: (740) 654-3009

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> STEPHEN M. LUCHTENBERG 8546

Stephen M. Luchtenberg

License No. 8546

Expiration Date: December 31, 2023 **GENERAL NOTES** DIVISION 6 **THROUGH**

DIVISION 7

DRAWN BY: NJP, SML

- 0706. SINGLE PLY MEMBRANE ROOFING PROVIDE A FACTORY FORMED, FACTORY FINISHED ARCHITECTURAL STANDING SEAM ROOF SYSTEM as shown on the drawings and as noted herein, with components as needed for a COMPLETE, WEATHER-TIGHT, INSTALLATION. INCLUDES ALL TRIM, COPINGS, FASCIA, RIDGE, CLOSURES, VENTILATORS, CLIPS, FLASHING, SEALANTS, GASKETS, FILLERS, CUTTERS, DOWNSPOUTS, SOFFIT PANELS, ETC. AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE WEATHER-TIGHT ASSEMBLY. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS AND WITH S.M.A.G.N.A.'S "ARCHITECTURAL SHEET METAL
- MANUAL", LATEST EDITION. a. THE ROOF SYSTEM SHALL BE DESIGNED TO MEET OBG CHAPTER IS REQUIREMENTS. REFER TO THE STRUCTURAL DRAMINGS FOR THE SPECIFIC WIND SPEED, EXPOSURE AND SNOW LOAD DESIGN
- b. PERFORMANCE I. AIR INFILTRATION: AIR LEAKAGE OF NOT MORE THAN 0.06 CFM/SF OF ROOF AREA WHEN TESTED IN ACCORDANCE WITH ASTM EI680 AT THE FOLLOWING TEST PRESSURE DIFFERENCE. a) TEST PRESSURE DIFFERENCE ROOF SLOPE 30 DEGREES OR LESS: NEGATIVE 1.57 LBF/SF b) TEST PRESSURE DIFFERENCE ROOF SLOPE GREATER THAN 30 DEGREES: POSITIVE AND
 - NEGATIVE 1.57 LFB/SF. c) POSITIVE PRE-LOAD TEST PRESSURE DIFFERENCE: GREATER THAN OR EQUAL TO 15.0 LBF/SF AND THE CREATER OF 15 PERCENT OF BUILDING LIVE LOAD OR 50 PERCENT OF BUILDING DESIGN POSITIVE WIND PRESSURE DIFFERENCE.
 - d) NEGATIVE PRE-LOAD TEST PRESSURE DIFFERENCE: 50 PERCENT OF DESIGN WIND UPLIFT PRESSURE DIFFERENCE.
- 2. WATER PENETRATION: NONE WHEN TESTED IN ACCORDANCE WITH ASTM E1646 AT THE FOLLOWING TEST PRESSURE DIFFERENCE. AT POSITIVE PRE-LOAD TEST PRESSURE DIFFERENCE (CREATER THAN OR EQUAL TO 15 LBS PER SQUARE FOOT AND THE GREATER OF 15 PERCENT OF BUILDING LIVE LOAD AND 50 PERCENT OF BUILDING DESIGN) AND NEGATIVE PRE-LOAD TEST PRESSURE DIFFERENCE (50 PERCENT OF DESIGN WIND UPLIFT PRESSURE).
- a) TEST PRESSURE DIFFERENCE ROOF SLOPE 30 DEGREES OR LESS: NEGATIVE 2.86 LBF/SF b) TEST PRESSURE DIFFERENCE ROOF SLOPE GREATER THAN 30 DEGREES: 20 PERCENT OF POSITIVE DESIGN WIND PRESSURE, BUT NOT LESS THAN 6.24 LBF/SF AND NOT MORE THAN
- c) POSITIVE PRE-LOAD TEST PRESSURE DIFFERENCE: GREATER THAN OR EQUAL TO 15.0 LBF/SF AND THE CREATER OF 15 PERCENT OF BUILDING LIVE LOAD OR 50 PERCENT OF
- BUILDING DESIGN POSITIVE WIND PRESSURE DIFFERENCE. d) NEGATIVE PRE-LOAD TEST PRESSURE DIFFERENCE: 50 PERCENT OF DESIGN WIND UPLIFT PRESSURE DIFFERENCE.
- 3. HYDROSTATIC HEAD RESISTANCE: NO WATER PENETRATION WHEN TESTED IN ACCORDANCE
- 4. WIND UPLIFT: COMPLY WITH ASTM EI529 AND UL 580; CLASS AS SPECIFIED BY THE
- STRUCTURAL ENGINEER OR AS DETERMINED BY ASCE 1. 5. COMPLY WITH REQUIREMENTS OF FMG 4471 FOR CLASS I OR NONCOMBUSTIBLE CONSTRUCTION: a) FIRE/MINDSTORM CLASSIFICATION: REFERENCE THE STRUCTURAL DRAWINGS. b) HAIL RESISTANCE: MH
- 5. STRUCTURAL PERFORMANCE: PROVIDE ASSEMBLY CAPABLE OF WITHSTANDING THE EFFECTS OF GRAVITY LOADS AND THE FOLLOWING LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED. TESTING IN ACCORDANCE WITH ASTM E1592. a) WIND LOAD: REFERENCE THE STRUCTURAL DRAWINGS.
- b) SNOW LOAD: REFERENCE THE STRUCTURAL DRAWINGS.
- c) DEFLECTION LIMIT: REFERENCE THE STRUCTURAL DRAWINGS. THERMAL MOVEMENT: ALLOW MOVEMENT RESULTING FROM AMBIENT AND SURFACE TEMPERATURE CHANCES; BASE ENGINEERING CALCULATIONS ON THE SURFACE TEMPERATURE
- OF MATERIALS BASED ON SOLAR HEAT GAIN AND NIGHTTIME SKY HEAT LOSS. TEMPERATURE CHANCE 120 DECREES FAHRENHEIT AMBIENT, 180 DECREES FAHRENHEIT MATERIAL SURFACES: 7. ENERGY: PROVIDE PRODUCT: THAT IS LISTED ON THE U.S. DEPARTMENT OF ENERGY'S ENERGY 0708. APPLY 36 IN. WIDE, ASTM DI970, UL LISTED, SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET (ICE STAR ROOF PRODUCTS QUALIFIED PRODUCTS LIST OR; WITH SOLAR REFLECTANCE INDEX NOT LESS THAN XX OR XX WHEN CALCULATED IN ACCORDANCE WITH ASTM EIGEO; OR WITH INITIAL SOLAR REFLECTANCE NOT LESS THAN 0.70 AND EMISSIVITY NOT LESS THAN 0.75 WHEN TESTED
- IN ACCORDANCE WITH CRRC-I. I. FACE SHEET PANEL, STANDING SEAM: ASTM B209, ASTM EI637; COIL-COATED ALUMINUM
 - SHEET: TEMPERED AS REQUIRED TO SUIT FORMING OPERATIONS AND AND STRUCTURAL PERFORMANCE: PREFABRICATED AND PRE-FINISHED: MINIMUM 0.024 INCHES (22 GAGE) THICK: PANEL COVERAGE 12 INCHES WIDE; PANEL HEIGHT 1-1/2 INCHES; FORM USING THE CONTINUOUS END ROLLING METHOD WITH NO END LAPS. I.I. FINISH: SHALL MEET THE ENERGY STAR PERFORMANCE CRITERIA FOR EMISSIVITY PER
 - ASTM CI37I AND REFLECTIVITY PER ASTM CI549: FACTORY APPLIED TWO COAT THERMO CURED SYSTEM COMPRISED OF INHIBITIVE PRIMER TO A DRY FILM THICKNESS OF 0.25 TO O.31 MIL AND A FLUOROPOLYMER COLOR TOP COAT CONTAINING NOT LESS THAN TO PERCENT POLYVINYLIDENE FLUORIDE RESIN BY WEIGHT TO A DRY FILM THICKNESS 0.70 TO 0.90 MIL. TESTS FOR ADHESION, FLEXIBILITY AND LONGEVITY ARE AS SPECIFIED BY THE PAINT MANUFACTURER. I.2. FINISH COLOR AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD.
- 2. FLASHING, FASCIA, RAKE AND RAKE SOFFITS: MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL; PRESS BRAKE IN MINIMUM 12 FOOT LENGTHS; INSTALLED IN OVERLAP CONDITION; REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS; COLOR TO MATCH THE FACE SHEET PANEL. 3. RIDGE AND SIDEWALL VENT: MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET
- PANEL; PRESS BRAKE MINIMUM 12 FOOT LENGTHS; INSTALLED IN OVERLAP CONDITION; COLOR TO MATCH THE FACE SHEET PANEL. 4. VENTILATORS: MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL, COLOR

TO MATCH THE FACE SHEET PANEL.

- 5. GLOSURES: MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL; COLOR TO MATCH THE FACE SHEET PANEL; COLOR TO MATCH THE FACE SHEET PANEL
- 6. GOPINGS: SNAP-ON; MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL; COLOR TO MATCH THE FACE SHEET PANEL.
- 1. GUTTERS AND DOWNSPOUTS: SEAMLESS; MATCH MATERIAL AND FINISH OF THE FACE SHEET PANEL; COLOR OF THE CUTTER TO MATCH THE FACE SHEET PANEL; AND COLOR OF THE DOWNSPOUT AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD.
- 8. EAVE SOFFIT PANELS AT BUILDINGS: VINYL, CONTINUOUS VENTING, COLOR AS SELECTED. MATCH THICKNESS, MATERIAL AND FINISH OF THE FACE SHEET PANEL. 12 INCHES WIDE PANEL. 9. PANEL CLIPS: MINIMUM 0.0625 INCHES THICK, ZINC COATED GALVANIZED; SIZE AND SPACING
- AS INDICATED BY THE MANUFACTURER. IO. BACKING PLATE II. SNOW GUARD: PLASTIC, PREFABRICATED, NON-GORROSIVE UNITS DESIGNED TO BE INSTALLED
- WITHOUT PENETRATING THE ROOF PANELS; COLORED TO MATCH PANEL 12. GLEATS: MECHANICALLY SEAMED FORMED FROM MINIMUM 0.025 INCHES THICK STAINLESS
- 13. SEALING TAPE: 100 PERGENT SOLIDS POLISOBUTYLENE COMPOUND WITH RELEASE PAPER BACKING, ELASTIC, NON-SAC, AND NON-STAINING PRESSURE SENSITIVE.
- 14. FASTENERS: CONCEALED SCREWS WITH CORROSION RESISTANT FINISH RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER FOR THE SYSTEM BEING INSTALLED. GADMIUM PLATED
- 15.1. FURNISH 36" WIDE DOUBLE LAYER OF SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET (ICE SHIELD) PER MFR'S INSTRUCTIONS AND IN ACCORDANCE TO OBC CHAPTER IS AT ALL ROOF VALLEYS.
- 15.1.1. SINGLE LAYER AT ALL EAVES AND GABLES AT ENCLOSED INSULATED BUILDINGS. 16. SEALANT: PER MANUFACTURER'S RECOMMENDATION; REFERENCE THIS DIVISION FOR SPECIFIC
- d. Manufacturer and Product: Dimencional Metals Il20 System, Equals by Firestone, CLASSIC METAL ROOFING SYSTEMS, ENGLERT, INC.; OR EQUAL
- e. THE INSTALLING CONTRACTOR IS TO BE MANUFACTURER CERTIFIED AND HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT.
- CONTRACTOR SHALL CONDUCT AND DOCUMENT A PRE-INSTALLATION CONFERENCE NO EARLIER THAN THREE WEEKS, BUT NOT LATER THAN ONE WEEK PRIOR TO THE SCHEDULED START OF INSTALLATION: ATTENDEES ARE TO INCLUDE THE CONTRACTOR, THE ARCHITECT, THE INSTALLER, THE INSTALLER'S SAFETY OFFICER AND THE MANUFACTURER'S REPRESENTATIVE. ITEMS DISCUSSED ARE TO INCLUDE THE FOLLOWING:
- REVIEW THE DESIGNED ROOFING SYSTEM AND MANUFACTURER'S WRITTEN INSTRUCTIONS. 2. REVIEW FLASHINGS, SPECIAL ROOF DETAILS, ROOF PENETRATIONS, DRAINAGE, EQUIPMENT
- CURBS AND ANY OTHER CONSTRUCTION THAT WILL AFFECT THE INSTALLATION.
- REVIEW TESTING AND INSPECTION REQUIREMENTS. 4. REVIEW SAFETY PROCEDURES, EQUIPMENT AND BARRICADING.
- 5. EXAMINE THE DECK SUBSTRATE FOR COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS; INCLUDING FLATNESS AND ATTACHMENT TO STRUCTURAL MEMBERS. 6. REVIEW ROOF LOADING AND MATERIAL STAGING
- ALL PRODUCTS SHALL BE FROM ONE SOURCE, FROM A SINGLE MANUFACTURER. . ASSEMBLY MARRANTY: MATERIALS AND WORKMANSHIP FOR FIVE YEARS FOLLOWING DATE OF
- SUBSTANTIAL COMPLETION. FINISH WARRANTY: REPAIR OR REPLACE ITEMS THAT EXHIBIT DETERIORATION OF FACTORY
- APPLIED FINISHES FOR 25 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. WEATHER-TIGHTNESS WARRANTY: REPAIR OR REPLACE ASSEMBLIES THAT FAIL TO REMAIN
- WEATHER-TIGHT, INCLUDING LEAKS, FOR 20 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. . WHERE DISSIMILAR METALS WILL CONTACT EACH OTHER OR CORROSIVE SUBSTRATES, PROTECT AGAINST GALVANIC ACTION BY PAINTING THE CONTACT SURFACE WITH BITUMINOUS COATING, BY APPLYING RUBBERIZED ASPIJALT UNDERLAYMENT OR BY OTHER PERMANENT SEPARATION AS RECOMMENDED BY THE MANUFACTURER. DOCUMENT SEPARATION METHOD TO ARCHITECT IN SHOP
- PAINT TOUCH-UP CUTS AS RECOMMENDED BY THE MANUFACTURER. m. INSTALLATION TOLERANCE: 1/4 INCH IN 20 FEET ON SLOPE AND LOCATION LINES; 1/6 INCH

OFFSET OF ADJOINING FACES AND ALIGNMENT OF MATCHING PROFILES. n. Ground and Bond the System in accordance with NFPA to, latest edition.

- PROVIDE .060 ADHERED ETHYLENE-PROPYLENE-DIENE-MONOMER (EPDM) ROOFING SYSTEM AS INDICATED ON THE DRAWINGS, INCLUDES MEMBRANE FLASHING, ROOF MEMBRANE, PROTECTION BOARD, TREATED WOOD BLOCKING, TREATED PLYWOOD PARAPET BACKING, TERMINATION BAR ALUMINUM COPING, FASTENERS, POLYISO FLAT AND TAPERED INSULATION BOARDS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A WATERTIGHT SYSTEM. a. SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS AND THE DETAILS WITHIN THIS SET OF DRAWINGS:
- b. MATERIAL I. MEMBRANE: ASTM D4637, TYPE II; MINIMUM 60-MIL; DUAL PLY POLYESTER-REINFORGED; WITH FACTORY APPLIED TAPE (FAT) SEAM; SURE-TOUGH BY CARLIGLE SYNTEC SYSTEMS.
- 2. INSULATION BOARD: ASTM CI284, TYPE II, CLASS 2, GRADE 2; CLOSED CELL POLYISOCYANURATE FOAM CORE BONDED TO MEDIUM WEIGHT FIBER REINFORCED FELT FACER: 48 INCH BY 46 INCH NOMINAL SHEETS: MINIMUM I-1/2 INCHES THICK FLAT BOARDS BUILT UP TO PROVIDE 4 1/2" THICKNESS ACROSS ENTIRE ROOF; HP-II POLYISO BY CARLISLE SYNTEC SYSTEMS; MINIMUM R-VALUE 7.0 PER INCH. PROVIDE TAPERED INSULATION BOARDS ATOP THE 4 1/2" THICK FLAT BOARD BASE TO PROVIDE \$ PER FOOT DRAINAGE TO ROOF DRAINS. ARCHITECT'S ROOF DRAWING IS SCHEMATIC ONLY; SUPPLIER TO PROVIDE SHOP DRAWING ILLUSTRATING TAPERED BOARD LAYOUT, INCLUDING SADDLES AND/OR CRICKETS AT HIGHSIDE
- OF ALL ROOFTOP INAC UNITS. 3. PROTECTION BOARD: ASTM CIITT; CYPSUM CORE, FACED WITH EMBEDDED CLASS MAT; I/2 INCH THICK; DENSDECK PRIME ROOF BOARD BY GEORGIA PACIFIC OR CARLISLE SYNTEC
- 4. BONDING ADHESIVE: HIGH STRENGTH, SOLVENT BASED CONTACT ADHESIVE; EPDM X-23 BY CARLISLE SYNTEC SYSTEMS. 5. FLASHING MEMBRANE: ASTM D4811; MINIMUM 60-MILS THICK; FACTORY FORMED WHEREVER
- POSSIBLE; SIZE AND TYPE AS RECOMMENDED BY THE ROOFING SYSTEM MANUFACTURER FOR THE CONDITION BEING FLASHED. SEE ROOF DETAILS IN THE DRAWINGS. 6. VAPOR RETARDER: ASTM D2IT8; TYPE IV GLASS FELT AND G2 BASE SHEET BY CARLISLE
- 1. SPLICE TAPE: 6 INCHES WIDE; SECURTAPE BY CARLISLE SYNTEC SYSTEMS
- 8. MEMBRANE PRIMER: HP-250 BY CARLISLE SYNTEC SYSTEMS. 9. ADHESIVE, LAP SEALANT: TYPE AS DETERMINED BY THE MANUFACTURER IO. PARAPET COPING: .040 PREFINISHED ALUMINUM WITH CONT CLEAT SECURED TO FRONT EDGE OF CONTINUOUS PRESSURE TREATED 2x BLOCKING, TAPERED TO SLOPE AS DETAILED. NO
- II. WALK PADS: MANUFACTURER'S STANDARD PADS ADHERED TO ROOF MEMBRANE; PROVIDE 4" WATER DRAINAGE SPACE BETWEEN ADJACENT PADS.
- 12. CURB FOR MECHANICAL EQUIPMENT: TYPE AS SPECIFIED BY THE ROOFING SYSTEM
- 13. FASTENER: TYPE AS DETERMINED BY THE ROOFING SYSTEM MANUFACTURER.
- 14. MANUFACTURER: CARLISLE SYNTEC SYSTEMS; OR APPROVED EQUAL BY FIRESTONE. MANUFACTURER: 10 YEARS FOR THE TOTAL SYSTEM, INCLUDING PUNCTURE, FROM DATE OF
- INSPECTION BY ROOFING SYSTEM MANUFACTURER'S REPRESENTATIVE. 2. INSTALLER: 2 YEARS FROM DATE OF INSPECTION BY ROOFING SYSTEM MANUFACTURER'S
- d. ONLY USE INSULATION BOARD FURNISHED BY THE ROOFING SYSTEM MANUFACTURER. e. THE INSTALLING CONTRACTOR IS TO BE MANUFACTURER CERTIFIED AND HAVE NO LESS THAN TEN
- YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT 0707. APPLY 36 IN. WIDE, ASTM D226, UL LISTED, 15 lbs./sq., UN-PERFORATED, ASPHALT SATURATED
- ROOFING FELT IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND SPECIFICATIONS BARRIER) IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND SPECIFICATIONS AND
- IN ACCORDANCE OBC CHAPTER 15 REQUIREMENTS. a. INSTALL TWO (2) LAYERS OF MATERIAL TO COVER ALL ROOF VALLEYS.
- b. COVER FOR A DISTANCE OF 72 INCHES UP ROOF THE ENTIRE LENGTH OF VALLEY.
- FURNISH AND INSTALL U. L. CLASS A LABEL, 30 YEAR, "DIMENSIONAL" GLASS FIBER ROOFING SHINGLES WHERE SHOWN ON THE DRAWINGS (MATCH EXISTING) TO COMPLY WITH OBC CHAPTER 15, AND INSTALLED PER MANUFACTURER'S PRINTED DETAILS AND SPECIFICATIONS.
- a. STAPLES ARE NOT PERMITTED FOR ANCHORING OF SHINGLES. b. SUBMIT APPLICATOR'S 15 YEAR WARRANTY AND MANUFACTURER'S 50 YEAR WARRANTY TO
- CONTRACTOR.
- MANUFACTURER: CELOTEX, OWENS-CORNING AND GAF. FURNISH AND INSTALL 0.032 IN. THICK METAL STEP FLASHINGS, FLASHINGS AND COUNTER-FLASHINGS, ALL PENETRATION FLASHINGS, ALL DRIP-EDGE METAL AND ALL METAL
- . JOIN AND OVERLAP AS REQUIRED TO ACHIEVE A MEATHER AND WATER TIGHT ROOFING
- e. ALL FLASHINGS SHALL BE OF ROOFING MANUFACTURER'S APPROVED MATERIALS, AND INSTALLED IN ACCORDANCE WITH ROOFING MANUFACTURER'S AND S.M.A.C.N.A. WRITTEN AND DETAILED
- FURNISH CONTINUOUS RIDGE VENTILATOR. VENTILATING RIDGE CAP WITH VENTILATING MESH HAVING A MINIMUM NET FREE AREA OF 18
- SQ. IN. / LIN. FT. INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. 2. FURNISH VENTILATORS WITH BAFFLES TO PREVENT SNOW AND RAIN ENTERING AND WEEP
- HOLES TO ALLOW WATER TO DRAIN TO ROOF. . FURNISH BOX-TYPE ATTIC VENTILATORS. I. INSTALL BOX-TYPE, PVC, SELF-FLASHING, ATTIC VENTS HAVING 60 SQ, IN, OF "FREE AREA" WHERE SHOWN ON THE DRAWINGS: INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED - INSTRUCTIONS
- 0710. APPLY FLUID-APPLIED, VAPOR-PERMEABLE AIR BARRIER: ELASTOMERIG, UV-RESISTANT, SYNTHETIG MEMBRANE, FORMULATED FOR APPLICATION RANGE OF 48-70 MILS (MET), 25-35 MILS (DRY). a. AIR PERMEANCE, ACTIM E2178: 0.004 CFM/SQ. FT. OF SURFACE AREA AT 1.57 LBF/SQ. FT. (0.02
- L/S x SQ. M OF SURFACE AREA AT 15-PA) PRESSURE DIFFERENCE, MAXIMUM. b. VAPOR PERMEANCE, ASTM E96: MINIMUM 12 PERMS (690 NG/PA x 5 x SQ. M). c. ELONGATION, ULTIMATE, AGTM D412, DIE C: 600 PERCENT, MINIMUM.
- d. COMBUSTION CHARACTERISTICS: CLASS A, FLAME SPREAD, NOT GREATER THAN 25; SMOKE DEVELOPED, GREATER THAN 450, PER AGTM E84. e. UV RESISTANCE, QUV-B: OVER 160 CYCLES OF UV AND WATER SPRAY WITH NO OBSERVABLE
- DETERIORATION: F. VOC CONTENT: LESS THAN 50 G/L. a. ACCESSORY MATERIALS
- I. GENERAL: FURNISH AGGESSORY MATERIALS AS DESCRIBED IN MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, RECOMMENDED TO PRODUCE COMPLETE AIR BARRIER MEETING PERFORMANCE REQUIREMENTS, AND COMPATIBLE WITH AIR BARRIER MEMBRANE MATERIAL
- h. MANUFACTURER: TREMCO, INC. EXOAIR 230 OR EQUAL.
- 15. UNDERLAYMENT: TYPE, LOCATIONS AND LAPS IN ACCORDANCE WITH ROOFING MANUFACTURER

 OTII. PROVIDE COMMERCIAL BUILDING WRAP: ASTM E2357 PASSED, ABAA (AIR BARRIER ASSOCIATION OF america) evaluated air barrier assembly, and assembly water resistance per astm e331. a. FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF LESS THAN 25 AND 450, RESPECTIVELY, WHEN TESTED IN ACCORDANCE WITH ASTM E84.
 - b. UV STABILIZED FOR NINE-MONTH EXPOSURE; AND ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION. SYSTEM DESCRIPTION, SINGLE-LAYER WEATHER BARRIER: SINGLE-LAYER WEATHER BARRIER, INCLUDING FLASHING AND SEALING OF PENETRATIONS AND SEAMS BEHIND SIDING MATERIALS. . SYSTEM DESCRIPTION, DOUBLE-LAYER DRAINABLE: DOUBLE-LAYER WEATHER BARRIER WITH INTEGRAL
 - DRAINAGE, INCLUDING FLASHING AND SEALING OF PENETRATIONS AND SEAMS BEHIND CULTURED STONE MATERIALS. I. WEATHER BARRIER SHALL CONFORM TO THE CULTURED STONE MANUFACTURER'S WRITTEN INSTRUCTIONS
 - 2. DRAINABILITY: 96 PERCENT OR GREATER WHEN TESTED IN ACCORDANCE WITH ASTM E2273. e. AIR PERMEANCE, PRODUCT: NOT MORE THAN 0.001 CFM/SQ. FT. AT 1.57 LBF/SQ. FT. (0.005 L/S x SQ. M AT 75 PA) WHEN TESTED IN ACCORDANCE WITH ASTM E2178.
 - AIR PERMEANCE, ASSEMBLY: NOT MORE THAN 0.04 CFM/SQ. FT. AT 1.57 LBF/SQ. FT. (0.2 L/S x SQ. M AT 75 PA) WHEN TESTED IN ACCORDANCE WITH ASTM E2357 AND EVALUATED BY ABAA. WATER PENETRATION RESISTANCE, PRODUCT: HYDROSTATIC HEAD RESISTANCE GREATER THAN 7.7 FEET
 - (2.35 M) IN ACCORDANCE WITH AATTC 127. h. WATER PENETRATION RESISTANCE, ASSEMBLY: ASSEMBLY WALL SPECIMEN DESCRIBED IN ASTM E2357 TO
 - WATER RESISTANCE IN ACCORDANCE WITH ASTM E331. FLAME PROPAGATION TEST: MATERIALS AND CONSTRUCTION SHALL BE AS TESTED IN ACCORDANCE WITH
 - WEATHER BARRIER SYSTEM TO HAVE A VOC CONTENT OF 30 G/L OR LESS. 0712. INSTALL INSULATING SILL SEALER, MINIMUM 1/4 INCHES THICK, UNDER CONTINUOUS WOOD PLATE OR LIGHT GAUGE METAL TRACK AT CONCRETE FOUNDATION WALLS.

- 0713. **PROVIDE METAL FLASHING AND COUNTER-FLASHING** ASSEMBLIES, WHETHER SHOWN OR NOT, AS REQUIRED TO ACHIEVE A WEATHER-TIGHT BUILDING ENVELOPE. INCLUDES REGLETS, CLIPS, STRAPS, FASTENERS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED.
 - a. SHALL WITHSTAND WIND LOAD, STRUCTURAL MOVEMENT, THERMALLY INDUCED MOVEMENT AND EXPOSURE TO WEATHER WITHOUT FAILURE. b. ASSEMBLIES SHALL BE IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS OF S.M.A.C.N.A.'S
- "ARCHITECTURAL SHEET METAL MANUAL", LATEST EDITION.
- I. STEEL SHEET FLASHING: HOT DIPPED GALVANIZED MEETING ASTM A653 690 (Z275) ZINC COATING OF STRUCTURAL QUALITY; MINIMUM 24 GAUGE; FACTORY FINISHED BY COIL COATING PROCESS IN COMPLIANCE WITH ASTM A775.
- 2. REGLET: FORMED TO PROVIDE SECURE, INTERLOCKING, WATERTIGHT SYSTEM; COMPATIBLE WITH STEEL SHEET FLASHING; HOT DIPPED GALVANIZED STEEL 690 (Z275) ZINC COATING OF STRUCTURAL QUALITY; MINIMUM 0.022 INCHES THICK; COLOR TO MATCH STEEL SHEET FLASHING. 0117.
- 3. FASTENER: HOT-DIPPED ZINC COATED STEEL IN ACCORDANCE WITH ASTM AI53, AND ASTM F2329; IF EXPOSED, HEX WASHER HEAD FASTENER SHALL BE GASKETED AND FINISHED TO
- 4. SEALANT: REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS. d. COLOR: SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE ARCHITECT FROM THE MANUFACTURER'S STANDARD.
- e. FURNISH MANUFACTURER'S WARRANTY OF FINISH FOR A MINIMUM 20 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION. F. PAINT TOUCH-UP CUTS AS RECOMMENDED BY THE MANUFACTURER.
- a. WHERE DISSIMILAR METALS WILL CONTACT EACH OTHER OR CORROSIVE SUBSTRATE, PROTECT AGAINST GALVANIC ACTION BY PAINTING THE CONTACT SURFACE WITH BITUMINOUS COATING, BY APPLYING RUBBERIZED ASPHALT OVERLAY OR BY OTHER PERMANENT SEPARATION AS RECOMMENDED BY THE MANUFACTURER.
- 0714. PROVIDE AND INSTALL A SELF-ADHERING FLEXIBLE FLASHING ASSEMBLY AT ALL WINDOW AND DOOR ROUGH OPENINGS, AND OTHER ROUGH OPENINGS, AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN. WITH COMPONENTS AS NEEDED FOR A COMPLETE, WEATHER-TIGHT, INSTALLATION. FURNISH AND UTILIZE MANUFACTURER'S RECOMMENDED PRIMER, SEAM TAPE, SEALANTS AND FASTENERS. a. THE INSTALLED FLEXIBLE FLASHING ASSEMBLY SHALL MEET OR EXCEED THESE PERFORMANCE
- CHARACTERISTICS: ASTM E331 AND ASTM E96. b. APPLY THE FOLLOWING MATERIALS, IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, TO ALL OPENINGS: SELF-ADHERING "STRAIGHT FLASHING," SELF-ADHERING "FLEXIBLE FLASHING." SEAM TAPE, FASTENERS, SEALANTS AND PRIMER
- c. MANUFACTURER: DUPONT BUILDING INNOVATIONS, FLASHING PRODUCTS, INC., OR EQUAL. 0715. PROVIDE AND INSTALL THE DRAINABLE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS) AS
 - INDICATED ON THE DRAWINGS. a. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND
 - b. PROVIDE MANUFACTURER'S WARRANTY AGAINST DEFECTS IN MATERIAL FOR A PERIOD OF 15 YEARS.
- c. MATERIAL I. INSULATION BOARD.

MATCH THE FLASHING.

- a) MOLDED CLOSED CELL EXPANDED POLYSTYRENE, TYPE 1. b) COMPLY WITH ASTM C578, ASTM E2430, DRYVIT DS 131 AND EIMA GUIDELINE
- SPECIFICATION FOR EXPANDED POLYSTYRENE INSULATION BOARD. c) WITH VERTICAL DRAINAGE GROOVES ON ONE FACE: 1/4 INCH BY LINCH, SPACED 12
- INCHES ON CENTER. d) DENSITY: MINIMUM 0.45 POUNDS PER CUBIC FOOT, MAXIMUM 1.25 POUNDS PER CUBIC FOOT. e) COMPRESSIVE STRENGTH: MINIMUM IO PSI.
- F) TENSILE STRENGTH: MINIMUM 15 PSI. a) FLEXURAL STRENGTH: MINIMUM 25 PSI.
- 1) WATER VAPOR PERMEANCE: MAXIMUM 25 PERM AT ONE INCH THICK.) WATER ABSORPTION: MAXIMUM FOUR PERCENT BY TOTAL IMMERSION.
- OXYGEN INDEX: MINIMUM 24. () FLAME SPREAD: MAXIMUM 25.
- I) SMOKE DEVELOPMENT: MAXIMUM 450. m) THICKNESS: VARIES; MINIMUM TWO INCHES THICK (AFTER SANDING), MAXIMUM FOUR INCHES THICK (AFTER SANDING).
- 2. SHEET METAL FLASHING a)-STAINLESS STEEL, MINIMUM 26 GAUGE.
- b)-continuous and waterticht. Designed and installed to prevent water INFILTRATION BEHIND THE EIFS. e) REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS.
- 3. SUBSTRATE EDGE FLASHING a) FLASHING TAPE: HIGH DENGITY, POLYETIMLENE FILM BACKED WITH A RUBBERIZED ASPHALT ADHESIVE.
-) SURFACE CONDITIONER: WATER-BASED; ADHESION PROMOTER FOR FLASHING TAPE. 4. ADHESIVE: FACTORY BLENDED, NONCEMENTITIOUS, WATER-BASED ACRYLIC COPOLYMER USED TO ATTACH INSULATION BOARD TO THE AIR/WATER-RESISTIVE BARRIER.
- 5. STARTER STRIP: AGED EXPANDED POLYSTYRENE: CONFIGURED TO ACCEPT TRACK. 6. TRACK: J-SHAPED COMPLYING WITH ASTM DIT84 AND ASTM CIO63. 7. VENT TRACK: J-SHAPED COMPLYING WITH ASTM DI784 AND ASTM CI063; CONFIGURED WITH
- SLOT FOR DRAINAGE. 8. TRACK ADHESIVE: MOISTURE CURE, URETHANE BASED. 9. BASE COAT: FACTORY MIXED, FULLY FORMULATED, WATER-BASED; OR FACTORY BLENDED.
- FIELD MIXED CEMENTITIOUS, COPOLYMER-BASED. IO. FINISH COAT SHALL BE AN ACYRLIC BASED, TEXTURED COATING. COLOR(S) AND TEXTURE AS SELECTED BY THE OWNER FROM THE MANUFACTURER'S STANDARD. II. PRIMER TINTED TO MATCH THE SELECTED COLOR(S).
- 12. REINFORGING MESH a) STANDARD: 4.3 OUNCES PER SQUARE YARD. b) CORNER: 7.2 OUNCES PER SQUARE YARD.
- c) DETAIL: 4.3 OUNCES PER SQUARE YARD. I3. SEALANTS: REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS. d. EXPANSION JOINTS: CONTINUOUS EXPANSION JOINTS SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS/RECOMMENDATIONS.
- I. AT BUILDING EXPANSION JOINTS. - 2. AT SUBSTRATE EXPANSION JOINTS. 3. AT FLOOR LINES IN WOOD FRAME CONSTRUCTION
- 4. WHERE EIFS PANEL ASSEMBLIES ABUT ONE ANOTHER. 5. WHERE EIFS ASSEMBLIES ABUTS OTHER MATERIALS. 6. WHERE SIGNIFICANT STRUCTURAL MOVEMENT OCCURS, SUCH AS AT:
- a) CHANGES IN ROOF LINE. b) - CHANGES IN BUILDING SHAPE AND/OR STRUCTURAL SYSTEM. - 1. WHERE SUBSTRATE CHANGES (FOR EXCEPTIONS TO JOINTS AT SUBSTRATE CHANGES,
- CONTACT THE PRODUCT MANUFACTURER'S TECHNICAL DEPARTMENT). - 8. SUBSTRATE MOVEMENT AND EXPANSION AND CONTRACTION OF THE EIFS AND ADJACENT MATERIALS SHALL BE TAKEN INTO ACCOUNT IN DESIGN OF EXPANSION JOINTS, WITH PROPER — CONSIDERATION CIVEN TO SEALANT PROPERTIES, INSTALLATION CONDITIONS, TEMPERATURE RANCE, COEFFICIENTS OF EXPANSION OF MATERIALS, JOINT WIDTH TO DEPTH RATIOS, AND
- OTHER MATERIAL FACTORS. MINIMUM WIDTH OF EXPANSION JOINTS SHALL BE AS FOLLOWS: a) 1/2 IN. WHERE EIFS ABUTS OTHER MATERIALS. b) 3/4 in. when eifs abuts the eifs. c) LARGER WIDTH WHERE INDICATED ON DRAWINGS.
- e. MANUFACTURER: OUTSULATION MD BY DRYVIT SYSTEMS, INC.; OR APPROVED EQUAL BY PAREX, INC., SENERGY, STO FINISHING SYSTEMS. F. ALL PRODUCTS SHALL BE FROM ONE SOURCE, FROM A SINGLE MANUFACTURER. 7. DESIGN NEGATIVE WIND LOAD SHALL NOT EXCEED 50 PSF.
- NOLINED SURFACES - I. UNLESS OTHERWISE SPECIFICED BY THE MANUFACTURER, MINIMUM SLOPE IS SIX INCHES OF VERTICAL RISE IN 12 INCHES (MAXIMUM) HORIZONTAL RUN.
- i. SUBSTRATE SYSTEM - I. SHALL BE ENGINEERED TO WITHSTAND APPLICABLE DESIGN LOADS, INCLUDING THE REQUIRED SAFETY FACTOR. - 2. MAXIMUM DEFLECTION UNDER POSITIVE OR NEGATIVE DESIGN LOADS SHALL NOT EXCEED L/240 OF SPAN. DEVIATION WILL REQUIRE THE MANUFACTURER'S WRITTEN APPROVAL.
- 3. DIMENSIONAL TOLERANCE: FLAT WITHIN 1/4 INCH IN ANY FOUR FOOT RADIUS: 4. SURFACE IRREGULARITIES: SHEATHING NOT OVER 1/8 INCH. 1. THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS
- k. THE INSTALLING CONTRACTOR SHALL BE MANUFACTURER APPROVED AND IS TO PROVIDE PROOF OF MANUFACTURER CERTIFICATION TO THE CONTRACTOR PRIOR TO THE START OF THE WORK; I. PRIOR TO THE COMMENCEMENT OF WORK, PROVIDE A MOCK-UP OF EACH SYSTEM FOR - APPROVAL BY THE ARCHITECT AND, IF REQUESTED, THE MANUFACTURER, MOCK-UP IS TO INCLUDE — AN INCIDE CORNER, AN OUTSIDE CORNER, A TERMINATION AT DISSIMILAR MATERIAL, AN INTRICATE
- DETAIL AS SELECTED BY THE ARCHITECT AND BASE OF WALL. THE MOCK-UP, IF APPROVED, MAY BE INCORPORATED IN THE WORK. m. THE USE OF ANTI-FREEZE TYPE ADMIXTURES OR ANY OTHER ADMIXTURE THAT MAY ADVERSELY - AFFECT THE PERFORMANCE OR APPEARANCE OF COATING MATERIALS IS PROHIBITED:

- 0716. FURNISH AND INSTALL VINYL-SIDING-SOFFIT MATERIALS AND REQUIRED ACCESSORIES WHERE
 - a. SIDING AND SOFFIT AND ACCESSORIES SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM
- D3679 REQUIREMENTS b. INSTALL-SIDING, SOFFIT, ACCESSORIES, TRIMS, ETC. IN STRICT ACCORDANCE WITH MFR'S WRITTEN INSTALLATION INSTRUCTIONS AND ASTM D4746 REQUIREMENTS.
- c. VINYL THICKNESSES:
- -SIDING PANEL: 0.046 INCHES MINIMUM SIMILAR TO GERTAINTEED'S "MONOGRAM 46". 2. SOFFIT PANEL: 0.040 INCHES MINIMUM SIMILAR TO CERTAINTEED'S "UNIVERSAL".
- a) INSTALLATION: ALTERNATE SOLID AND PERFORATED PANELS. d. MANUFACTURER: ALCOA (MASTIC) ALSIDES, CERTAINTEED, CRANE, OWENS-CORNING, OR OWNER
- APPROVED EQUAL. e. SIZE, COLOR, STYLE, AND TEXTURES AS SELECTED BY OWNER.
- PROVIDE THE FIBER GEMENT (GEMENTITIOUS) LAP SIDING SYSTEM OVER WOOD FRAMED EXTERIOR WALLS AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, INCLUDES FRIEZE BOARDS, TRIMS, FLASHINGS, SEALANTS AND ALL OTHER
- ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE, WEATHER-TIGHT SYSTEM.

b. TESTED AND LABELED IN ACCORDANCE WITH ASTM CII86.

THE LAP SIDING:

e. EXPOSURE: SIX INCHES.

- a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS, DETAILS AND SPECIFICATIONS.
- c. MANUFACTURER: JAMES HARDIE BUILDING PRODUCTS, CERTAINTEED CORP. d. MATERIALS: I. LAP SIDING: FACTORY APPLIED ACRYLIC PRIMER; IN COMPLIANCE WITH ASTM CIIBG, TYPE A, GRADE II; ASTM EI36 FOR NON-GOMBUSTIBLE MATERIAL; ASTM E84 FLAME SPREAD INDEX O; SMOKED DEVELOPED INDEX 5; TEXTURE AS SELECTED BY THE OWNER OR THE OWNER'S
- REPRESENTATIVE. 2. TRIMS: FACTORY APPLIED ACRYLIC PRIMER; MANUFACTURED FROM THE SAME MATERIAL AS
- 3. STARTER STRIP: FACTORY APPLIED ACRYLIC PRIMER; MANUFACTURED FROM THE SAME MATERIAL AS THE LAP SIDING. 4. FLASHING: WHERE REQUIRED BY THIS MANUFACTURER'S PRINTED SPECIFICATIONS AND
- INSTALLATION INSTRUCTIONS; REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS. 5. WOOD FRAMING FASTENER: CORROSION RESISTANT NAILS RECOMMENDED BY THE
- MANUFACTURER. REFER TO THE STRUCTURAL DRAWINGS FOR WIND RESISTANCE REQUIREMENTS. 6. WATER RESISTANT BARRIER: REFERENCE SECTION OTIO THIS DIVISION. SEALANT: REFERENCE THIS DIVISION FOR SPECIFIC REQUIREMENTS; AS RECOMMENDED BY THE
- 8. TOP COAT IN ACCORDANCE WITH DIVISION OF OF THESE GENERAL NOTES AND AS RECOMMENDED BY THE MANUFACTURER.
- . ALL PRODUCTS SHALL BE FROM ONE SOURCE, FROM A SINGLE MANUFACTURER. . PROVIDE MANUFACTURER'S WARRANTY AGAINST DEFECTS IN MATERIAL AND WORKMANGHIP FOR A
- PERIOD OF 25 YEARS. h. PROVIDE EXPANSION JOINTS IN LOCATIONS RECOMMENDED BY THE MANUFACTURER; THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN FIVE YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE OF THIS
- PRIOR TO THE COMMENCEMENT OF WORK, PROVIDE A MOCK-UP OF THE SYSTEM FOR APPROVAL BY THE ARCHITECT, AND IF REQUESTED, THE MANUFACTURER. MOCK-UP IS TO INCLUDE AN INSIDE CORNER, AN OUTSIDE CORNER, PENETRATION AND A TERMINATION AT DISSIMILAR MATERIAL. THE MOCK-UP, IF APPROVED, MAY BE INCORPORATED IN THE WORK.
- FURNISH AND INSTALL FACTORY FORMED AND PAINTED, "V" GROOVED ALUMINUM, SOLID AND PERFORATED, SOFFIT PANELS, "RIBBED" ALUMINUM FASCIA PANELS AND ACCESSORIES AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INSTALL PANELS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION
- INSTRUCTIONS AND DETAILS. a. PANELS AND AGGESSORIES SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATIONS: - I. ARCHITECTURAL ALUMINUM MANUFACTURERS ASSOCIATION (AAMA) SPECIFICATIONS 1402 STANDARD SPECIFICATIONS FOR ALUMINUM SIDING, SOFFIT AND FASCIA.
- 2. ASTM B209. b. SOFFIT PANEL, HI-TENSILE: DOUBLE 6 INCH
- I. DIMENSIONS: 12 INCH EXPOSED WIDTH BY 144 INCHES LONG 2. THICKNESS: O.OI6
- 3. PROFILE: V-GROOVE FORMING TWO 6 INCHES WIDE PANELS 4. SURFACE: SMOOTH
- 5. PERFORATED, NET FREE OPEN AREA: 1.2 SQUARE INCHES/LINEAR FOOT 6. FINISH: POLYESTER THERMOSET COATING CURED AT 450 DEGREES F. c. FASCIA PANEL:
- I. DIMENSIONS: REQUIRED HEIGHT BY 150 INCHES LONG 2. PROFILE: ANGLE SHAPE WITH I INCH ATTACHMENT FLANCE ALONG BOTTOM AND THREE EQUALLY SPACE RIBS ON FACE
- 3. SURFACE: SMOOTH 4. FINISH: POLYESTER THERMOSET COATING CURED AT 450 DEGREES F. - L. CONSISTENT WITH SHAPE, SIZE AND PROPERTIES AS REQUIRED FOR COMPLETE INSTALLATION.
- 2. PRODUCED FROM THE SAME COMPOUND MATERIALS AND WITH COMPARABLE PROPERTIES AS THE SOFFIT - 3. COLOR: MATCH COLOR OF SOFFIT SELECTED. d. MANUFACTURER: ALCOA, ALSCO, ALSIDES, REYNOLDS, OR EQUAL.

e. COLOR SELECTED BY OWNER OR OWNER'S REPRESENTATIVE.

INSTALLATION INSTRUCTIONS AND S.M.A.C.N.A. DETAILS.

LAPPED JOINTS WITH SEALANT.

a) color as selected by owner.

PUBLISHED DETAILS AND INSTALLATION PROCEDURES.

- GUTTERS AND DOWNSPOUTS PROVIDE FACTORY FINISHED SEAMLESS GUTTERS AND DOWN-SPOUTS AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES,
- BUT IS NOT NECESSARILY LIMITED TO, HANGERS, END CAPS, OUTLET TUBES, DOWN-SPOUT BOOTS, SEALANTS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED.

a. INSTALL AND SUPPORT GUTTER AND DOWN-SPOUTS IN ACCORDANCE WITH MANUFACTURER'S

- b. ALL GUTTER WORK SHALL BE JOINED, OVERLAPPED AND SEALED AS REQUIRED TO PRODUCE A WATERTIGHT SYSTEM. c. SLOPE AT I/4 INCH PER TEN FEET. d. MATERIAL
- I. ALUMINUM SHEET: ASTM B209, AAMA 2605; HEMMED EDGES; WITH FACTORY APPLIED BAKED-ON EPOXY PRIMER COAT, MINIMUM DRY FILM THICKNESS 0.2 MIL; WITH TWO COAT FLUOROPOLYMER COATING CONTAINING NOT LESS THAN 70 PERCENT PVDF RESINS BY WEIGHT IN COLOR COAT, TOTAL MINIMUM DRY FILM THICKNESS I.2 MIL; COLOR AS SELECTED BY THE OWNER FROM MANUFACTURER'S STANDARD; SHOP OR FIELD FORMED TO THE SHAPE INDICATED;
- SERIES 300 STAINLESS STEEL WOOD SCREW; SPACED NO MORE THAN 36 INCHES APART. 3. 4 INCH GUTTER: MATCH EXISTING STYLE K; MINIMUM 0.032 INCHES THICK. 4. 6 INCH GUTTER: STYLE OG; MINIMUM 0.040 INCHES THICK. 5. 2x4 (NOM.) AND 3x5 (NOM.), DOWNSPOUT: MINIMUM 0.024 INCHES THICK.

2. GUTTER BRACKET: CONCEALED; MILL-FINISHED ALUMINUM ATTACHED WITH GALVANIZED OR

- 6. FURNISH EXPANSION SLEEVE EVERY 50 LIN. FT. OF GUTTER LENGTH, INSTALL IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. 7. SEALANT: AS RECOMMENDED BY THE ALUMINUM SHEET MANUFACTURER.
- COLOR SELECTED BY OWNER OR ARCHITECT. e. CONNECT DOWN-SPOUTS TO FACTORY FORMED PYC "DRAIN-BOOTS" TIED TO UNDERGROUND STORM DRAINAGE PIPING SYSTEM; ROOF DRAINAGE SYSTEM TO BE IN ACCORDANCE WITH

8. MANUFACTURER, ALUMINUM SHEET: ALCOA, WOLVERINE, ALSIDE OR APPROVED EQUAL.

- AUTHORITY HAVING JURISDICTION. 0720. PROVIDE AND INSTALL A FACTORY FORMED AND FINISHED SNAP-TIGHT COPING ASSEMBLY WHERE
 - a. FURNISH DESIGN TO SEAL THE TOP OF PARAPET WALLS WITH CONCEALED FASTENERS. b. THE COPING SHALL BE A SNAP-TIGHT TYPE SYSTEM COMPLETE WITH ALL ACCESSORIES. - I. THE COPING SHALL BE 0.080 IN. THICK, SMOOTH 3003-1114 ALLOY ALUMINUM
- 2. FURNISH IN MINIMUM LENGTH'S OF 10'-0" WITH 8 IN, WIDE CONCEALED JOINT COVERS AND 12 IN. WIDE 20 8-CUACE GALVANIZED ANCHOR PLATES SPACED 5'-O" O.C. 3. SUPPLY COPING WITH BUTYL STRIPS TO FORM AN INTERNAL CUTTER SYSTEM 4. ALL EXPOSED ALUMINUM SHALL HAVE A FACTORY APPLIED PAINTED FINISH.
- 5. ALL CORNERS TO BE FULLY WELDED. c. MANUFACTURES I. ARCHITECTURAL PRODUCTS CO., FIRESTONE BUILDING PRODUCTS CO., PETERSEN ALUMINUM CORP., OR SOUTHERN ALUMINUM FINISHING CO.

- I. INSTALL THE SNAP-TIGHT COPING ASSEMBLY IN ACCORDANCE WITH THE MANUFACTURER'S

0721. FOUNDATION WALL WATERPROOF MEMBRANE

- PROVIDE SELF-ADHERING, DRAINABLE, SHEET WATERPROOFING SYSTEM FOR BELOW GRADE CONCRETE MASONRY UNIT AND / OR CAST-IN-PLACE CONCRETE FOUNDATION WALLS.
- a. MATERIAL SHALL BE IN ACCORDANCE WITH ASTM D412, ASTM D570, ASTM E154 AND ASTM D 2240. b. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS.
 - I. MEMBRANE: BITUTHENE SYSTEM; 0.056 INCHES THICK, SELF-ADHESIVE, COLD APPLIED COMPOSITE SHEET AND O.004 INCHES THICK CROSS LAMINATED, HIGH DENSITY POLYETHYLENE FILM FOR A TOTAL THICKNESS OF 0.060 INCHES; FORMULATED FOR USE WITH WATER-BASED SURFACE CONDITIONERS; INCLUDES A RELEASE SHEET; REQUIRES NO SPECIAL ADHESIVE OR HEAT
 - IN ORDER TO FORM LAPS.
- 2. PREFABRICATED DRAINAGE COMPOSITE: MINIMUM 3/8 INCHES THICK; TENSILE STRENGTH 325 PSI; ULTIMATE ELONGATION 300 PERCENT; PUNCTURE RESISTANCE MINIMUM 50 LB; WATER
- ABSORPTION MAXIMUM O.OI PERCENT INCREASE IN WEIGHT AT 24 HOUR IMMERSION; DESIGNED TO PROMOTE POSITIVE DRAINAGE WHILE SERVING AS A PROTECTION COURSE.
- 3. TERMINATION BAR: GALVANIZED STEEL; ONLY THAT WHICH IS SPECIFIED AND ACCEPTED BY THE MEMBRANE MANUFACTURER.
- 4. PROTECTION BOARD: EXPANDED POLYSTYRENE; MINIMUM ONE INCH THICK; DENSITY I.O PCF; THERMAL RESISTANCE 4 PER ONE INCH THICKNESS.
- 5. ACCESSORIES: AS SPECIFIED AND ACCEPTED BY THE MEMBRANE MANUFACTURE; FLASHINGS; SURFACE PRIMERS AND CONDITIONERS; MASTICS; LIQUID MEMBRANE; SEALANTS.
- d. MANUFACTURERS
- I. CHEMREX, INC. 2. SONNEBORN BUILDING PRODUCTS
- 3. EUCLID CHEMICAL CO. 4. W. R. GRACE & CO. 5. AMERICAN HYDROTECH, INC.
- 6. AMICAN PERMAQUIK INC. 7. CARLISLE COATINGS & WATERPROOFING INC. 8. CETCO BUILDING MATERIALS GROUP

a. INSTALLATION

MANUFACTURER.

- 9. HENRY COMPANY IO. TAMKO ROOFING PRODUCTS, INC.
- e. PREPARATION OF SUBSTRATE I. CLEAN OFF PROJECTIONS AND SUBSTANCES DETRIMENTAL TO WORK. 2. COMPLY WITH RECOMMENDATIONS OF THE MEMBRANE MANUFACTURER.
- 3. FILL VOIDS, SEAL JOINTS AND APPLY BOND BREAKERS AS RECOMMENDED BY THE MEMBRANE MANUFACTURER. 4. PRIME SUBSTRATE AS RECOMMENDED BY THE MEMBRANE MANUFACTURER.
- "WATERPROOFING AND DAMP-PROOFING MANUAL", 2. SHALL NOT PROCEED UNTIL CONCRETE AND/OR CMU HAS PROPERLY CURED AND DRIED.

I. CONFORM TO THE REQUIREMENTS OF THE NATIONAL ROOFING CONTRACTOR ASSOCIATION (NRCA)

3. APPLY THE SELF-ADHERING MEMBRANE WITH A MECHANICAL ROLLER TO ENCOURAGE FULL BOND 4. OVERLAY EDGES AND ENDS AND SEAL BY THE METHOD RECOMMENDED BY THE MEMBRANE

7. WRAP AND SEAL PENETRATIONS BY THE METHOD RECOMMENDED BY THE MEMBRANE

- MANUFACTURER 5. LAP JOINTS ON SLOPED SUBSTRATE IN THE DIRECTION OF DRAINAGE. 6. PROVIDE TERMINATION BAR AND COUNTER-FLASHING AT ALL EDGES.
- 0722. ALL EXTERIOR FASTENERS SHALL BE NON-STAINING, NON-CORROSIVE AND COLOR MATCH FACTORY FINISHES AS REQUIRED.
- 0723. **SLAB ON GRADE VAPOR BARRIER** PROVIDE POLYETHYLENE MOISTURE RETARDER OVER UNFACED THERMAL INSULATION AND BELOW CONCRETE SLAB-ON-GRADE AS INDICATED ON THE DRAWINGS.
 - a. MATERIAL I. CONCRETE SLAB-ON-GRADE: 6 MIL; ASTM E1745; CLASS A; MAXIMUM PERMEANCE RATING OF 2. THERMAL INSULATION: 6 MIL; ASTM CII36 AND ASTM D4397; INSTALLATION IN ACCORDANCE
- WITH ASTM CII36; MAXIMUM PERMEANCE RATING OF 0.06. b. AT THERMAL INSULATION, SEAL ALL JOINTS USING PRESSURE SENSITIVE TAPE RECOMMENDED BY THE MANUFACTURER. c. SEAL ALL PENETRATIONS USING MASTIC TYPE MATERIAL RECOMMENDED BY THE MANUFACTURER.
- d. JOINT OVERLAP AT WALLS SHALL BE A MINIMUM OF 32 INCHES FOR STUDS SET AT 16 INCHES ON CENTER AND 24 INCHES FOR STUDS SET AT 24 INCHES ON CENTER AND ARE TO BE LOCATED OVER FRAMING MEMBERS.

SPANNED BETWEEN WALL AND CEILING FRAMING MEMBERS

e. JOINT OVERLAP AT SLAB-ON-GRADE SHALL BE MINIMUM OF 24 INCHES. . PLACEMENT, PROTECTION AND REPAIR SHALL COMPLY WITH ASTM E1643 a. At thermal insulation, repair tears and punctures with another layer of material

h. AT SLAB-ON-GRADE, REPLACE SHEETS THAT ARE TORN, PUNCTURED OR OTHER SIMILAR DAMAGE.

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TIT 426 EAST MAIN STREET LANCASTER, OHIO 43130 (740) 654-4048 phone: facsimile: (740) 654-3009

COMMISSION

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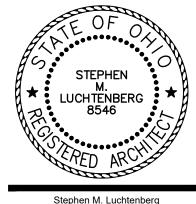
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Expiration Date: December 31, 2023 **GENERAL NOTES DIVISION 7**

THROUGH

DIVISION 7

License No. 8546

a. PROVIDE JOINT SEALANTS, BACKINGS AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF SERVICE AND APPLICATION AS DEMONSTRATED BY THE MANUFACTURER BASED ON TESTING AND FIELD

I. ACRYLIC LATEX (S-I): ASTM C834 AND ASTM CI520; SINGLE-COMPONENT ACRYLIC EMULSION OR LATEX RUBBER MODIFIED ACRYLIC EMULSION: PERMANENTLY FLEXIBLE: NON-STAINING: NON-BLEEDING; COMPATIBLE WITH PAINT FINISHES; MAXIMUM VOC 50 G/L; COLOR AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD.

a) TREMFLEX 834, TREMCO, INC; AC-20, PECORA CORP; 950A, SHERWIN-WILLIAMS CO. 2. SILICONE (5-2): ASTM C920; SINGLE-COMPONENT SILICONE RUBBER BASED ELASTOMERIC; PERMANENTLY FLEXIBLE: NON-STAINING: NON-BLEEDING: MOLD AND MILDEW RESISTANT: NEUTRAL CURING; GRADE NS, CLASS 25 OR 50; MAXIMUM VOC 50 G/L; COLOR AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD. a) PECORA 898, PECORA CORP; SILICONE PLUS, DAP PRODUCTS, INC; SIKASIL N PLUS, SIKA

3. SILICONE (5-3): ASTM C920; SINGLE-COMPONENT; NEUTRAL CURING; GRADE NS; CLASS 100 OR 50; EXPOSURE USE T; NON-STAINING; NON-BLEEDING; SHORE A HARDNESS MINIMUM 25, MAXIMUM 50; COLOR AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD.

a) SIKASIL-728 NS T, SIKA CORP 4. POLYURETHANE (S-4): ASTM C920; SINGLE OR MULTI COMPONENT; NEUTRAL CURING; GRADE P AND NS; EXPOSURE USE T, NT, G, A, AND O; CLASS AS SPECIFIED BY THE MANUFACTURER FOR THE MATERIAL(S) BEING SEALED; NON-STAINING; NON-BLEEDING; SHORE A HARDNESS MINIMUM 15, MAXIMUM 50 OR AS RECOMMENDED BY THE MANUFACTURER FOR THE SPECIFIED INSTALLATION; COLOR AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S STANDARD. a) SIKAFLEX-Ia, SIKA CORP.

5. ACOUSTIC (S-5): ASTM C834 AND ASTM C919; SINGLE-COMPONENT ACRYLIC EMULSION; PERMANENTLY FLEXIBLE; NON-STAINING; NON-BLEEDING; MAXIMUM VOC 50 G/L. a) SHEETROCK BRAND ACOUSTICAL SEALANT, USG CORP.; OR APPROVED EQUAL

6. MISCELLANEOUS (S-6): ASTM C920; SINGLE COMPONENT; GRADE NS; CLASS 50; EXPOSURE USE NT; NON-STAINING; NON-BLEEDING; SHORE A HARDNESS MINIMUM 25, MAXIMUM 50. a) OSI QUAD MAX, HENKEL CORP.

7. JOINT BACKER: ASTM CI330, TYPE C; NON-STAINING; COMPRESSIBLE; CLOSED-CELL POLYETHYLENE FOAM; COMPATIBLE WITH JOINT SUBSTRATE, PRIMERS AND SEALANTS AND APPROVED FOR APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD

EXPERIENCE AND LABORATORY TESTING. 8. BOND BREAKER: POLYETHYLENE OR OTHER PLASTIC TAPE; TYPE AND LOCATION AS RECOMMENDED BY THE SEALANT MANUFACTURER. 9. PRIMER: SIKASIL PRIMER-2100, SIKA CORP

IO. CLEANERS: TYPE AND LOCATION AS RECOMMENDED BY THE SEALANT MANUFACTURER. c. JOINT WIDTH IN COMPLIANCE WITH ASTM C1472.

ALL SEALANT SHALL BE INSTALLED BY A PROFESSIONAL INSTALLER THAT IS APPROVED BY THE SEALANT MANUFACTURER, HAVING NO LESS THAN FIVE YEARS OF DOCUMENTED EXPERIENCE IN THE APPLICATION OF JOINT SEALANTS. SEALANT INSTALLED BY LABORERS

IS NOT ACCEPTABLE. 2. SEALANTS AND CAULKS SHALL BE INSTALLED SO AS TO MAINTAIN A CONTINUOUS INSECT, WATER AND AIRTIGHT SEAL.

<u>5-1</u> COSMETIC JOINTS AT GYPSUM BOARD: NOT EXCEEDING 1/4 INCH WIDE; ALL HOLLOW METAL FRAMES; ALL ALUMINUM FRAMES, HVAC GRILLES AND LOUVERS, ACCESS PANELS, SUSPENDED CEILING WALL ANGLE, FIRE EXTINGUISHER CABINETS, AND OTHER RECESSED AND SEMI-RECESSED CABINETS, WINDOWS, WINDOW STOOLS AND CASINGS, CASEWORK; COUNTERTOP BACK-SPLASH; EXPOSED, NON-FIRE-RATED PENETRATIONS; TOILET ACCESSORIES; INTERIOR AIR TIGHTNESS AT WINDOWS, DOORS AND WALL INTERSECTIONS PRIOR TO THE INSTALLATION OF VAPOR RETARDER.

2. S-2 SANITARY JOINTS: COUNTERTOP AT BACK-SPLASH; PLUMBING FIXTURES AT FLOOR AND WALL; PLUMBING FIXTURE FLANGE AT COUNTERTOP; PLUMBING PIPE PENETRATION AT WALL; UNDERSIDE OF EXTERIOR DOOR THRESHOLDS; CONCEALED, INTERIOR SIDE OF NON-FIRE-RATED PENETRATIONS THROUGH EXTERIOR WALLS; GLASS FIBER REINFORCED PANEL MOLDING

3. S-3 EXTERIOR JOINTS: UNDERSIDE OF EXTERIOR DOOR THRESHOLDS: ISOLATION, CONTROL AND EXPANSION JOINTS AS RECOMMENDED BY MANUFACTURER; CONCEALED, INTERIOR INTERIOR SIDE OF NON-FIRE-RATED PENETRATIONS THROUGH EXTERIOR WALLS; EXTERIOR INSULATION FINISH SYSTEMS (EIFS) AS APPROVED FOR USE BY THE EIFS MANUFACTURER.

 5-4 EXTERIOR JOINTS (EXPOSURE USE NT): JOINTS AT CONCRETE AND MASONRY WALLS; LOWERS: WINDOWS: DOOR FRAMES: FLASHING REGLETS: FIBER CEMENT SIDING: EIFS AS APPROVED FOR USE BY THE EIFS MANUFACTURER; DECORATIVE TRIMS; SOFFIT PANELS; VERTICAL ISOLATION, CONTROL AND EXPANSION JOINTS; EXPOSED NON-FIRE-RATED PENETRATIONS THROUGH EXTERIOR WALLS.

5. S-4 EXTERIOR JOINTS (EXPOSURE T): CONCRETE PAVING; SIDEWALKS; ISOLATION, CONTROL, AND EXPANSION JOINTS. a) CONCRETE PAVING AT ASPHALT PAVING: EMULSIFIED PAVEMENT CRACK SEALER;

6. S-5 SOUND CONTROL ACOUSTIC: UNDERSIDE OF WALL SILL PLATE: PENETRATIONS THROUGH NON-RATED WALLS AND GYPSUM BOARD CEILINGS; GAP BETWEEN GYPSUM BOARD AND

REFERENCE DIVISION 32 OF THE GENERAL NOTES.

7. <u>S-6</u> VINYL WINDOWS, VINYL CLAD OR ALUMINUM CLAD WOOD WINDOW INSTALLATION. F. SEALANTS AT NEW CONCRETE SHALL NOT BE INSTALLED EARLIER THAN 30 DAYS FROM THE DATE OF THE POUR/APPLICATION.

REFERENCE NCMA TEK 19-6A FOR ADDITIONAL MASONRY SEALANT REQUIREMENTS. ALL PRODUCTS SHALL BE FROM THE SAME SUPPLIER, THE SAME MANUFACTURER OF EACH TYPE

0725. SEALANTS AT FIRE BARRIERS

FURNISH AND INSTALL ALL NECESSARY MATERIALS INCLUDING INTUMESCENT WRAP, RESTRICTING COLLARS, AND CAULK REQUIRED TO FIRE PROOF SEAL ALL OPENINGS (INCLUDING PENETRATIONS OF PIPES, CABLES AND CONDUITS) IN FIRE RATED WALL, CEILING AND FLOOR ASSEMBLIES.

a. USE ONLY MATERIALS CLASSIFIED BY UL TO PROVIDE FIRE STOPPING EQUAL TO TIME RATING OF CONSTRUCTION ASSEMBLY BEING PENETRATED. FURNISH ASBESTOS FREE MATERIALS AS TESTED IN ACCORDANCE WITH UL 1479 AND ASTM E814.

D. FIRE BARRIER MATERIALS. MASONRY WALLS: 3M CERAMIC MATERIALS DEPARTMENT MPWIOO.0I PRODUCTS AND U.L. THROUGH PENETRATION FIRESTOP NO. CBJ8008 FOR MASONRY WALLS WITH 2 HOUR "F" RATING. SILICONE FOAM TO BE 3M FIRE BARRIER FOAM2001 RTV MANUFACTURED BY DOW CORNING CORP. SILICONE SEALANT TO BE 3M FIRE BARRIER SEALANT 2000 (NON-SLUMP) MANUFACTURED BY DOW CORNING CORP. FIRE-RATED FOAM BOARD TO BE "FIBERFIRAX

CARBORUNDUM CO.; EQUAL BY HILTI CONSTRUCTION CHEMICALS. 2. GYPSUM BOARD WALLS AND CEILINGS: 3M CERAMIC MATERIALS DEPARTMENT MPWI25.01 PRODUCTS AND U.L. PENETRATION FIRESTOP NO. WLIOIO-C FOR GYPSUM BOARD WALLS AND CEILINGS WITH I HOUR "F" THROUGH RATING. SILICONE SEALANT TO BE 3M FIRE BARRIER SEALANT 2000 (NON-SLUMP) MANUFACTURED BY DOW CORNING CORP.; EQUAL BY HILTI CONSTRUCTION CHEMICALS.

3. INTUMESCENT WRAP/STRIP: 3M, FIRE BARRIER FS-145; EQUAL BY HILTI CONSTRUCTION CHEMICALS.

4. RESTRICTING COLLARS: 3M, FIRE BARRIER RC-I, 30 GAUGE, GALVANIZED STEEL; EQUAL BY HILTI CONSTRUCTION CHEMICALS.

5. FIRE BARRIER CAULK: 3M, CP 25 N/S AND CP 225 L ACCORDING TO APPLICATION; EQUAL BY HILTI CONSTRUCTION CHEMICALS.

SEAL PENETRATIONS AGAINST THE PASSAGE OF FIRE, SMOKE OR OTHER GASES. INSTALL MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS.

0800. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THESE GENERAL NOTES.

a. HOLLOW METAL AND WOOD DOORS b. HOLLOW METAL DOOR FRAMES

c. ALUMINUM ENTRY AND WINDOW SYSTEMS d. CLAD WOOD WINDOWS e. FLASHING AND DETAILS f. ACCESS PANELS

g. FINISH HARDWARE . UPWARD ACTING OVERHEAD DOORS

DIVISION 8 - OPENINGS

0801. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION a. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)/STEEL DOOR INSTITUTE (SDI)

ANSI/SDI II2, ZINC-COATED (GALVANIZED/GALVANNEALED) STEEL DOORS AND FRAMES 2. ANSI/SDI 122, INSTALLATION AND TROUBLESHOOTING GUIDE FOR STANDARD STEEL DOORS AND

3. ANSI/SDI A250.6, RECOMMENDED PRACTICES FOR HARDWARE REINFORCING ON STANDARD STEEL DOORS AND FRAMES 4. ANSI/SDI A250.8, SPECIFICATIONS FOR STEEL DOORS AND FRAMES 5. ANSI/SDI A250.10 TEST PROCEDURES AND ACCEPTANCE CRITERIA FOR PRIME PAINTED STEEL

SURFACES FOR STEEL DOORS AND FRAMES 6. ANSI/SDI A250.II, RECOMMENDED ERECTION INSTRUCTIONS FOR STEEL FRAMES b. AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)

 ANSI Z97.I, SAFETY GLAZING MATERIAL USED IN BUILDINGS - SAFETY PERFORMANCE SPECIFICATIONS AND METHODS OF TEST c. CODE OF FEDERAL REGULATIONS (CFR)

I. 16 CFR 1201, SAFETY STANDARDS FOR ARCHITECTURAL GLAZING MATERIALS d. ARCHITECTURAL WOODWORK INSTITUTE (AWI)

I. AWI ARCHITECTURAL WOODWORK STANDARDS e. GLASS ASSOCIATION OF NORTH AMERICA (GANA)

GANA GLAZING MANUAL 2. GANA LAMINATED GLAZING REFERENCE MANUAL

F. INSULATED GLASS MANUFACTURERS ALLIANCE (IGMA) . IGMA TB-3001, GUIDELINES FOR SLOPED GLAZING 2. IGMA TM-3000, NORTH AMERICAN GLAZING GUIDELINES FOR SEALED INSULATING GLASS UNITS FOR COMMERCIAL AND RESIDENTIAL USE

a. WINDOW AND DOOR MANUFACTURERS ASSOCIATION (WDMA)

WDMA I.S. IA, INTERIOR ARCHITECTURAL WOOD FLUSH DOORS

2. WDMA, HOW TO STORE, HANDLE, FINISH, INSTALL AND MAINTAIN WOOD DOORS 3. WDMA T.M. 6, ADHESIVE BOND DURABILITY

4. WDMA T.M. 7, CYCLE SLAM TEST 5. WDMA T.M. 8, HINGE LOADING TEST

6. WDMA T.M. 10, SCREW HOLDING CAPACITY 7. WDMA T.M. 14, CLEAR AND PIGMENTED COATINGS FOR INTERIOR PREFINISHED WOOD

8. WDMA T.M. 15, VERTICAL EDGE IMPACT TEST h. AMERICAN ARCHITECTURAL MANUFACTURERS ASSOCIATION (AAMA)

I. AAMA/MDMA/CSA IOI/I.S.2/A440, NORTH AMERICAN FENESTRATION STANDARD SPECIFICATION

FOR WINDOWS, DOORS AND SKYLIGHTS 2. AAMA 501.2, QUALITY ASSURANCE AND DIAGNOSTIC WATER LEAKAGE FIELD CHECK OF INSTALLED STOREFRONTS, CURTAIN WALLS AND SLOPED GLAZING SYSTEMS

I. NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMM)

I. HMMA 810, HOLLOW METAL DOORS 2. HMMA 820, HOLLOW METAL FRAMES

3. HMMA 831, RECOMMENDED HARDWARE LOCATIONS FOR HOLLOW METAL DOORS AND FRAMES 4. HMMA 840, INSTALLATION AND STORAGE OF HOLLOW METAL DOORS AND FRAMES 5. HMMA 841, TOLERANCES AND CLEARANCES FOR COMMERCIAL HOLLOW METAL DOORS AND

6. HMMA 840 TNOI, PAINTING HOLLOW METAL PRODUCTS

. DOOR AND HARDWARE INSTITUTE (DHI) ABBREVIATIONS AND SYMBOLS 2. DHI AII5 SERIES, SPECIFICATIONS FOR STANDARD STEEL DOOR AND STEEL FRAME

PREPARATION FOR HARDWARE 3. RECOMMENDED LOCATIONS FOR ARCHITECTURAL HARDWARE FOR FLUSH WOOD DOORS

k. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) I. NFPA 70, NATIONAL ELECTRIC CODE I. BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BHMA)

ANSI/BHMA AI56.I, BUTTS AND HINGES 2. ANSI/BHMA AI56.2, BORED AND PREASSEMBLED LOCKS AND LATCHES

3. ANSI/BHMA AI56.3, EXIT DEVICES 4. ANSI/BHMA AI56.4, DOOR CONTROLS-CLOSERS

5. ANSI/BHMA AI56.6, ARCHITECTURAL DOOR TRIM 6. ANSI/BHMA AI56.7. TEMPLATE HINGE DIMENSIONS

1. ANSI/BHMA AI56.8, HOLDERS AND STOPS 8. ANSI/BHMA AI56.I6. AUXILIARY HARDWARI

9. ANSI/BHMA AI56.18, MATERIALS AND FINISHES IO. ANSI/BHMA AI56.19, POWER ASSISTANT AND LOW ENERGY POWER OPERATED DOORS

II. ANSI/BHMA AI56.2I, THRESHOLDS 12. ANSI/BHMA AI56.22, DOOR GASKETING AND EDGE SEAL SYSTEMS

13. ANSI/BHMA A156.115, HARDWARE PREPARATION IN STEEL DOORS OR STEEL FRAMES 14. ANSI/BHMA AI56.II5W. HARDWARE PREPARATION IN WOOD DOORS WITH WOOD OR STEEL

m. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) I. ICC/ANSI II7.I, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

n. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) I. ASTM AI23, STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON

AND STEEL PRODUCTS 2. ASTM A568, STANDARD SPECIFICATION FOR STEEL, SHEET, CARBON AND HIGH-STRENGTH,

LOW-ALLOY, HOT-ROLLED AND COLD-ROLLED 3. ASTM A653, STANDARD SPECIFICATION FOR STEEL, SHEET, ZINC-COATED (GALVANIZED) OR

ZINC-IRON ALLOY-COATED (GALVANNEALED) BY THE HOT-DIP PROCESS 4. ASTM A780, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS

5. ASTM B209, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY SHEET AND 6. ASTM B22I, STANDARD SPECIFICATION FOR ALUMINUM AND ALUMINUM-ALLOY EXTRUDED BARS,

RODS, WIRE, PROFILES AND TUBES 7. ASTM B456, STANDARD SPECIFICATION FOR ELECTRODEPOSITED COATINGS OF COPPER PLUS NICKEL PLUS CHROMIUM AND NICKEL PLUS CHROMIUM

8. ASTM B633, STANDARD SPECIFICATION FOR ELECTRODEPOSITED COATINGS OF ZINC ON IRON

9. ASTM C509, STANDARD SPECIFICATION FOR ELASTOMERIC CELLULAR PREFORMED GASKET AND SEALING MATERIAL IO. ASTM C864, STANDARD SPECIFICATION FOR DENSE ELASTOMERIC COMPRESSION SEAL

GASKETS, SETTING BLOCKS AND SPACERS II. ASTM CIO36, STANDARD SPECIFICATION FOR FLAT GLASS 12. ASTM CIO48, STANDARD SPECIFICATION FOR HEAT-STRENGTHENED AND FULLY TEMPERED

FLAT GLASS 13. ASTM D6386, STANDARD PRACTICE FOR PREPARATION OF ZINC (HOT-DIP GALVANIZED()

COATED IRON AND STEEL PRODUCT AND HARDWARE SURFACES FOR PAINTING 14. ASTM D7396, STANDARD GUIDE FOR PREPARATION OF NEW, CONTINUOUS ZINC-COATED (GALVANIZED) STEEL SURFACES FOR PAINTING

15. ASTM E163, STANDARD METHODS OF FIRE TESTS OF WINDOW ASSEMBLIES 16. ASTM E1300, STANDARD PRACTICE FOR DETERMINING LOAD RESISTANCE OF GLASS IN BUILDINGS 17. ASTM E2190, STANDARD SPECIFICATION FOR INSULATING GLASS UNIT PERFORMANCE AND

FVALUATION 18. ASTM F1941, STANDARD SPECIFICATION FOR ELECTRODEPOSITED COATINGS ON MECHANICAL

0803. PROVIDE DURABLE, WEATHERPROOF, TEMPORARY DOORS AND HARDWARE AS REQUIRED TO SECURE THE BUILDING DURING THE CONSTRUCTION PERIOD.

0804. PROVIDE DURABLE, WEATHERPROOF, TEMPORARY COVERING AT EXTERIOR OPENINGS AS REQUIRED TO SECURE THE BUILDING AND MAINTAIN CLIMATE CONTROL DURING THE CONSTRUCTION PERIOD.

0805. EXAMINE SUBSTRATES, STRUCTURE AND INSTALLATION CONDITIONS. DO NOT PROCEED WITH WORK UNDER THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. a. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE.

0806. EXIT AND EXIT ACCESS DOORWAYS SHALL CONFORM TO THE REQUIREMENTS OF 2017 OBC CHAPTER IO. HARDWARE FOR DOORWAYS SHALL CONFORM TO THE REQUIREMENTS OF OBC CHAPTER II, AND ANSI/ICC AII7.I-2009.

0807. ALUMINUM DOORS AND WINDOWS

PROVIDE FACTORY FABRICATED, FACTORY FINISHED, ALUMINUM-FRAMED WINDOWS AND ENTRANCE SYSTEM AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION. INCLUDES PREPARATION OF THE OPENING FOR INSTALLATION, ALUMINUM FRAMING, INSULATED GLAZING, INTEGRAL MUNTIN BARS, SEALANTS, GASKETS, WEATHER-STRIPPING, SWEEP, FLASHINGS, THRESHOLD, FASTENERS, HARDWARE AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR AN AIRTIGHT AND WEATHER-TIGHT SYSTEM.

a. SUBMITTAL SHALL INCLUDE: . MULLION DETAILS FOR FENESTRATION COMBINATIONS, REINFORCEMENT AND STIFFENERS; 2. SHOP DRAWING DETAILS OF JOINERY, FLASHING AND DRAINAGE, WEATHER-STRIPPING, THERMAL

3. EXPANSION PROVISIONS:

BREAK AND GLAZING:

4. SEALANT; 5. PRODUCT DATA ON ALL COMPONENTS, INCLUDING FINISH HARDWARE, OF THE SYSTEM; 6. SAMPLE, MINIMUM 12 INCHES LONG, OF MAIN FRAMING MEMBER SHOWING WEATHER-STRIPPING,

GLAZING BEAD AND FACTORY APPLIED FINISH; AND 7. SAMPLE, MINIMUM 12 INCHES SQUARE OF INSULATED GLAZING PANEL. b. STRUCTURAL PERFORMANCE:

I. REFERENCE THE STRUCTURAL DRAWINGS FOR WIND SPEED, IMPORTANCE FACTOR AND EXPOSURE 2. STRUCTURAL-TEST PERFORMANCE: TESTED IN ACCORDANCE WITH ASTM E330 a) WHEN TESTED AT POSITIVE AND NEGATIVE WIND-LOAD DESIGN PRESSURES, SYSTEM SHALL

NOT HAVE EVIDENCE DEFLECTION EXCEEDING SPECIFIED LIMITS b) WHEN TESTED AT 150 PERCENT OF POSITIVE AND NEGATIVE WIND-LOAD DESIGN PRESSURES, SYSTEM, INCLUDING ANCHORAGE, SHALL NOT HAVE EVIDENCE MATERIAL FAILURES, STRUCTURAL DISTRESS AND PERMANENT DEFORMATION OF MAIN FRAMING MEMBERS EXCEEDING 0.2 PERCENT OF SPAN.

3. DEFLECTION NORMAL TO WALL PLANE: LIMITED TO 1/175 OF CLEAR SPAN FOR SPANS UP TO 13 FEET 6 INCHES AND TO 1/240 OF CLEAR SPAN PLUS 1/4 INCH FOR SPANS GREATER THAN 13 FEET 0809. STEEL DOORS 6 INCHES OR AN AMOUNT THAT RESTRICTS EDGE DEFLECTION OF INDIVIDUAL GLAZING LITES TO 3/4 INCH, WHICHEVER IS LESS.

4. DEFLECTION PARALLEL TO GLAZING PLANE: LIMITED TO L/360 OF CLEAR SPAN OR I/8 INCH, WHICHEVER IS SMALLER.

5. WIND-BORNE DEBRIS RESISTANCE: DESIGN SYSTEM THAT PASSES LARGE MISSILE-IMPACT AND

CYCLIC-PRESSURE TESTS BASED ON THE PASS/FAIL CRITERIA DETERMINED FROM TESTING IN ACCORDANCE WITH ASTM E1886 AND ASTM E1996. 6. THERMAL MOVEMENT: DESIGN SYSTEM TO ALLOW THERMAL MOVEMENT FROM AMBIENT AND SURFACE TEMPERATURE CHANGES AND BASED ON SURFACE TEMPERATURE OF MATERIALS DUE TO SOLAR HEAT GAIN AND NIGHTTIME SKY HEAT LOSS; NO BUCKLING, STRESS ON GLASS, SEALANT FAILURE, EXCESS STRESS ON FRAMING, ANCHORS AND FASTENERS OR REDUCTION OF

PERFORMANCE WHEN TESTED IN ACCORDANCE WITH AAMA 501.5. a) TEMPERATURE CHANGE: 120 DEGREES F, AMBIENT; 180 DEGREES F, MATERIAL SURFACES. b) INTERIOR AMBIENT-AIR TEMPERATURE: 75 DEGREES F.

7. AIR INFILTRATION: MAXIMUM AIR LEAKAGE THROUGH FIXED GLAZING AND FRAMING AREAS OF

MINIMUM STATIC-AIR-PRESSURE DIFFERENCE OF 1.57 LBF/SQ.FT. 8. WATER PENETRATION UNDER STATIC PRESSURE: SHALL NOT EVIDENCE WATER PENETRATION THROUGH FIXED GLAZING AND FRAMING AREAS WHEN TESTED IN ACCORDANCE WITH ASTM E331 AT A MINIMUM STATIC-AIR-PRESSURE DIFFERENCE OF 20 PERCENT OF POSITIVE WIND-LOAD

DESIGN PRESSURE, BUT NOT LESS THAN 6.24 LBF/SQ.FT. 9. WATER PENETRATION UNDER DYNAMIC PRESSURE: SHALL NOT EVIDENCE WATER LEAKAGE THROUGH FIXED GLAZING AND FRAMING AREAS WHEN TESTED ACCORDING TO AAMA 501.1 UNDER DYNAMIC PRESSURE EQUAL TO 20 PERCENT OF POSITIVE WIND-LOAD DESIGN PRESSURE, BUT NOT

LESS THAN 6.24 LBF/SQ.FT. IO. CONDENSATION RESISTANCE FACTOR: NOT LESS THAN 45 WHEN TESTED IN ACCORDANCE WITH AAMA 1503. II. THERMAL CONDUCTANCE: AVERAGE U-FACTOR OF NOT MORE THAN 0.63 BTU/SQ.FT. x H x DEG F

WHEN TESTED IN ACCORDANCE WITH AAMA 1503. 12. SOUND TRANSMISSION: STC MINIMUM 26 WHEN TESTED FOR LOSS IN ACCORDANCE WITH ASTM E90 AND DETERMINED BY ASTM E413; OITC MINIMUM 26 WHEN TESTED FOR LOSS IN ACCORDANCE WITH ASTM E90 AND DETERMINED BY ASTM E1332.

13. STRUCTURAL SEALANT: CAPABLE OF WITHSTANDING TENSILE AND SHEAR STRESSES IMPOSED BY ALUMINUM-FRAMED SYSTEM WITHOUT FAILING ADHESIVELY OR COHESIVELY; JOINTS DESIGNED TO PRODUCE TENSILE OR SHEAR STRESS OF LESS THAN 20 PSI. c. MATERIAL FOR ENTRANCE DOORS, SIDELIGHTS, & TRANSOMS AND INDIVIDUAL FIXED WINDOWS: I. ALUMINUM FRAME EXTRUSIONS: ALLOY 6063 T5 TEMPER OR AS RECOMMENDED BY THE SYSTEM

MANUFACTURER FOR STRENGTH AND DESIGN SPECIFICATIONS; WITH CORROSION RESISTANT

FINISH; WITH THERMAL BREAK; MINIMUM STRUCTURAL WALL THICKNESS OF 0.125 INCHES; SIZE 2"x4.5" UNLESS NOTED OTHERWISE ON FRAME ELEVATIONS, SEE SHEET A2.15; COMPLY WITH ASTM **B22I AND AAMA** 2. GLAZING: LAMINATED; INSULATED; TINTED (COLOR AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD RANGE); WITH MANUFACTURER'S STANDARD REPLACEABLE INTERIOR SLAZING GASKETS OF THE PROFILE AND HARDNESS REQUIRED TO MAINTAIN WATERTIGHT SEAL; WITH NON-REMOVABLE GLAZING GASKETS ON EXTERIOR; WITH MANUFACTURER'S STANDARD

TFE-FLUOROCARBON OR POLYETHYLENE BOND-BREAKER TAPE. 3. DOOR HEADER: SEE FRAME ELEVATIONS ON SHEET A2,15 FOR SIZES: MINIMUM 0,125 INCH WALL THICKNESS: DESIGNED BY MFR TO SUPPORT DOOR OPERATORS AND GLAZING AS SPECIFIED WITHOUT INTERMEDIATE SUPPORTS.

ELASTOMERIC TYPE SPACERS AND SETTING BLOCKS; WITH MANUFACTURER'S STANDARD

4. ENTRANCE DOOR SYSTEM a) MANUAL AND AUTOMATIC OPERATOR SWING OPERATIONS.

b) CONSTRUCTION: MINIMUM 0.125 INCH WALL THICKNESS STRUCTURAL EXTRUDED ALUMINUM TUBULAR RAIL AND STILE MEMBERS; CORNERS MECHANICALLY FASTENED WITH REINFORCING BRACKETS THAT ARE DEEPLY PENETRATED AND FILLET WELDED OR THAT INCORPORATE CONCEALED TIE RODS; WITH REINFORCEMENT AS REQUIRED TO SUPPORT LOADS IMPOSED BY DOOR OPERATION AND HARDWARE

c) DESIGN: WIDE STYLE WITH 5" STILES AND TOP RAIL: 6 1/2" BOTTOM RAIL. 5. ENTRANCE DOOR HARDWARE (ALSO REFER TO THE FINISH HARDWARE GENERAL NOTES THIS

DIVISION, AND DOOR SCHEDULES) a) HINGES: NON-REMOVABLE PIN: STAINLESS STEEL WITH STAINLESS STEEL PIN: MINIMUM 3 PER

b) PADDLE AND DEAD-LATCH

c) PUSH BAR OR PANIC HARDWARE - SEE DOOR SCHEDULE d) PULL OR LEVER - SEE DOOR SCHEDULE

COMPLY WITH AAMA.

MFR'S STANDARD RANGE.

e) WIRELESS ACTUATOR SYSTEM f) AUTOMATIC DOOR OPERATOR - SEE DOOR SCHEDULE FOR LOCATIONS

a) THRESHOLD: WITH THERMAL BREAK; SET IN FULL SEALANT BED. h) Weather-Stripping: Factory applied; Manufacturer's Standard Replaceable COMPONENTS; COMPRESSION TYPE IN ACCORDANCE WITH ASTM D2000 (MOLDED NEOPRENE) OR ASTM D2287 (MOLDED PVC).

I) SWEEP: CONCEALED; FACTORY APPLIED; MANUFACTURER'S STANDARD REPLACEABLE

6. CONCEALED FLASHING: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AS COMPATIBLE WITH MEMBERS; CORROSION-RESISTANT, NON-STAINING, NON-BLEEDING 7. FASTENERS: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AS COMPATIBLE WITH MEMBERS, TRIM, HARDWARE, ANCHORS AND OTHER COMPONENTS OF THE SYSTEM: CORROSION-RESISTANT, NON-STAINING, NON-BLEEDING; USE SELF-LOCKING DEVICES WHERE SUBJECT TO LOOSENING OR TURNING OUT FROM THERMAL AND STRUCTURAL MOVEMENTS, WIND LOADS OR VIBRATION; WHERE

EXPOSED, COUNTERSINK PHILLIPS HEAD FINISHED TO MATCH FRAMING; COMPLY WITH AAMA. 8. ANCHORS, CLIPS AND ACCESSORIES: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AND OF SUFFICIENT STRENGTH TO WITHSTAND DESIGN PRESSURE; COMPLY WITH ASTM B456. 9. REINFORCING MEMBERS: AS RECOMMENDED BY THE SYSTEM MANUFACTURER AND OF SUFFICIENT STRENGTH TO WITHSTAND DESIGN PRESSURE; AS REQUIRED TO RECEIVE FASTENER THREADS;

IO. STRUCTURAL GLAZING SEALANT: ASTM CIIB4; SINGLE COMPONENT, NEUTRAL CURING SILICONE FORMULATION THAT IS COMPATIBLE WITH SYSTEM COMPONENTS AND IS APPROVED BY THE STRUCTURAL SEALANT MANUFACTURER AND STOREFRONT MANUFACTURER FOR USE ON

II. WEATHER-SEAL SEALANT: REFERENCE DIVISION OT OF THE GENERAL NOTES, COLOR SELECTED FROM MANUFACTURER'S STANDARD. 12. ALUMINUM FINISHES

12.1. ENTRANCE DOORS, SIDELIGHTS AND TRANSOMS - PERMANODIC ANODIZED ALUMINUM, COLOR AS SELECTED FROM MFR'S STANDARD RANGE 12.2. FIXED INDIVIDUAL WINDOWS-PERMANODIC ANODIZED ALUMINUM, COLOR AS SELECTED FROM

d. PRODUCT AND MANUFACTURER: d.a. KAWNEER TRIFAB 45IT, CENTER GLAZE OR APPROVED EQUAL e. WARRANTY ENTRANCE DOOR: 5 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

2. GLAZING: IO YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

3. METAL FINISH: 10 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. F. FINISH AS SELECTED BY THE OWNER OR OWNER'S REPRESENTATIVE FROM MANUFACTURER'S I. IN ACCORDANCE WITH ALUMINUM ASSOCIATION STANDARD DF-45.

2. BRONZE ANODIZED ALUMINUM, COLOR AS SELECTED FROM MRR'S STANDARD RANGE

3. BAKED ENAMEL OR POWDER COAT: COMPLY WITH AAMA 2603; MINIMUM DRY FILM THICKNESS OF 15 MILS VERIFY ROUGH OPENING DIMENSIONS WITH THE MANUFACTURER PRIOR TO BEGINNING WORK. . ALL PRODUCTS SHALL BE FROM THE SAME SOURCE. THE INSTALLING CONTRACTOR SHALL BE MANUFACTURER APPROVED AND IS TO HAVE NO LESS THAN

TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN

SIZE AND SCOPE TO THIS PROJECT. AS PART OF PROJECT CLOSE-OUT, CONDUCT TRAINING WITH THE OWNER ON THE OPERATION AND IAINTENANCE REQUIREMENTS OF THE AUTOMATIC DOOR SYSTEM.

0808. WOOD DOORS

PROVIDE FACTORY PREPARED, PRE-HUNG, FACTORY FINISHED, SOLID CORE, INTERIOR WOOD DOORS IN HOLLOW METAL WOOD FRAMES AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN. DOORS SHALL

a. HANDLED AND INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

b. MANUFACTURER: ALGOMA, EGGERS INDUSTRIES, MASONITE, ASPIRO SERIES OR APPROVED EQUAL. c. SHALL COMPLY WITH AWI'S "ARCHITECTURAL WOODWORK AND QUALITY STANDARDS ILLUSTRATED"

AND WDMA I.S.I-A "ARCHITECTURAL WOOD FLUSH DOORS". d. PERFORMANCE GRADE: HEAVY DUTY IN ACCORDANCE WITH WDMA I.S.I-A.

e. DOOR: STRUCTURAL COMPOSITE CORE WITH MANUFACTURER'S STANDARD VENEER SPECIES; VERTICAL EDGES SHALL BE SAME SPECIES AS FACE VENEER; SCREW WITHDRAWAL AT FACE MINIMUM 700 LBF; SCREW WITHDRAWAL AT EDGE MINIMUM 400 LBF; I-3/4 INCHES THICK; SIZE AND STYLE AS INDICATED ON THE DRAWINGS.

f. DOOR CORE SHALL INCLUDE REINFORCEMENT AS REQUIRED FOR FINISH HARDWARE AND SHALL BE FACTORY CORED AS NECESSARY FOR CONCEALED PANIC HARDWARE RODS WHERE SCHEDULED. a. FACE VENEER: IN ACCORDANCE WITH NWWDA I.S.I A; PREMIUM GRADE WITH AA FACES; PLAIN SLIGED

VENEER, RED OAK. SPECIES AND FINISH TO MATCH EXISTING. SUBMIT COMPLETE STANDARD SPECIES AND FINISH PACKAGE WITH FULL LINE OF SAMPLES TO ARCHITECT FOR FINISH SELECTION h. SEAL TOP AND BOTTOM FACES OF DOOR WITH CATALYZED POLYURETHANE OR WATER RESISTANT

I. DOORS THAT ARE INSTALLED AS PAIRS OR SIDE BY SIDE, SEPARATED ONLY BY A SECTION OF WALL LESS THAN FOUR FEET WIDE, SHALL BE PAIR AND SET BOOK MATCHED. . DO NOT DELIVER OR INSTALL DOORS UNTIL SPACES ARE ENCLOSED AND WEATHER-TIGHT, WET WORK IS COMPLETE AND DRY, AND THE HVAC SYSTEM IS OPERATING AND MAINTAINING A TEMPERATURE BETWEEN 60 AND 90 DEGREES F AND RELATIVE HUMIDITY BETWEEN 25 AND 55 PERCENT FOR THE REMAINDER OF THE PROJECT.

PROVIDE FLUSH, INSULATED AND/OR NON-INSULATED, STEEL DOORS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, AND IN ACCORDANCE WITH ASTM A653, ANSI A250.6, ANSI/SDI A250.8, DHI AII5 NAAMM AMP 500 AND SDI 112

a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS AND ANSI A250.II b. MANUFACTURER: STEELCRAFT, REPUBLIC OR APPROVED EQUAL.

I. EXTERIOR DOOR: FACE PANELS, IS GAUGE, FABRICATED FROM TYPE B COMMERCIAL STEEL SHEET WITH 690 METALLIC COATING; SEAMLESS CONSTRUCTION; I-3/4 INCHES THICK; POLYURETHANE INSULATED TO MINIMUM R-VALUE OF 2.56 PER ASTM CI363; FACTORY PRIMED; FACTORY PREPARED AND PROPERLY REINFORCED FOR FINISH HARDWARE SELECTED.

2. Interior Door: Face Panels, 20 Gauce, Fabricated From Type B commercial Steel SHEET; SEAMLESS CONSTRUCTION; 1-3/4 INCHES THICK; FACTORY PRIMED; FACTORY PREPARED AND PROPERLY REINFORCED FOR FINISH HARDWARE SELECTED.

d. FINISH: FIELD APPLIED PAINT; COLOR AS SELECTED BY OWNER OR ARCHITECT. 0.06 CFM/SQ.FT. OF FIXED WALL AREA WHEN TESTED IN ACCORDANCE WITH ASTM E283 AT A 0810. ALUMINUM BI-FOLD DOORS a. PROVIDE 36"x84" INTERIOR, ALUMINUM FULL GLASS BI-FOLD DOOR UNIT, INCLUDING:

. 3/8" CLEAR LAMINATED GLASS IN BOTH PANELS 2. PULL HARDWARE ON BOTH PANELS

3. TOP MOUNTING TRACK, WHEELS FOR BOTTOM SUPPORT 4. POWDER COAT FINISH ON ALL ALUMINUM, COLOR AS SELECTED FROM MFR'S STANDARD

5. ALL OTHER ACCESSORIES AND INSTALLATION GUIDE AS REQUIRED FOR A COMPLETE CONTRACTOR TO INSTALL DOUBLE 20 GA METAL STUD JAMB WITH BLOCKING (IF REQ'D) AT

BOTH SIDES AND CONT 2x BLOCKING AT HEAD IF REQUIRED FOR TRACK INSTALLATION. INSTALL DIAGONAL ABOVE CEILING FRAMING BRACE AT BOTH JAMBS. PROVIDE SHOP DRAWINGS WITH MFR'S COLOR CHARTS FOR ALUMINUM FRAME FINISH SELECTION AND GLASS SAMPLES ILLUSTRATING MFR'S STANDARD RANGE OF GLASS TINT

OPTIONS. ONLINE CHARTS AND SAMPLES ARE NOT ACCEPTABLE. FIELD MEASURE ALL CONDITIONS PRIOR TO FABRICATION. INSTALL UNIT PER MFR'S WRITTEN INSTRUCTIONS.

MINIMUM TEN YEAR WARRANTY. ACCEPTABLE MFRS AND PRODUCTS: THE SLIDING DOOR COMPANY, SPACE PLUS DIVISION - 'PHONE BOOTH' BIFOLD DOORS

2. OR APPROVED EQUAL

3. EXTRUDED EPDM RUBBER GASKET PERMANENTLY ADHERED TO COVER

. I4 GA GALVANIZED STEEL AND FRAME 2. 12" CURB WITH INTEGRAL CAP FLASHING, I" FIBERBOARD INCULATION, FULLY WELDED CORNERS AND 3 \$" MOUNTING FLANCE

PROVIDE NEW 36x36 ROOF HATCH AS DETAILED

4. GOVER TO HAVE HEAVY DUTY PINTLE HINGES WIT \$" STAINLESS STEEL HINGE PINS AND SLAM LATCH WITH INTERIOR AND EXTERIOR TURN HANDLES AND PADLOCK HASPS 5. COMPRESSION SPRING OPERATORS ENGLOSED IN TELESCOPIC TUBS. AUTOMATIC HOLD OPEN WITH GRIP HANDLE RELEASE.

6. PROVIDE 'LADDER UP' ASSEMBLY MOUNTED TO INTERIOR ACCESS LADDER AS DETAILED

IN THE DRAWINGS. BILGO TYPE 'S' OR APPROVED EQUAL. 0811. STEEL EMBOSSED DOORS IN PRE-HUNG WOOD FRAMES OR HOLLOW METAL FRAMES a. PROVIDE STEEL EMBOSSED DOORS IN DIMENSIONS AND TYPES AS SHOWN ON THE DRAWINGS

— LABELED OR NON-LABELED AS INDIGATED ON THE DOOR SCHEDULE IN THE DRAWINGS. FURNISH 22 GAUGE FOR INTERIOR DOORS AND 20 GAUGE, GALVANIZED, FOR EXTERIOR DOORS, OR — GAUGE AS REQUIRED FOR THE FIRE RESISTANCE RATING REQUIREMENTS, PROPERLY REINFORGED FOR THE FINISHED HARDWARE SELECTED. FURNISH DOORS WITH FACTORY APPLIED PAINTED

I. REFERENCE DOOR SCHEDULE UL LABEL FIRE RESISTANCE RATINGS. 2. SECURE TEMPLATES FROM THE FINISH HARDWARE SUPPLIER, AND ACCURATELY INSTALL, OR ——— MAKE PROVISIONS FOR, ALL FINISH HARDWARE AT THE FACTORY.

b. Furnish Manufacturer's Standard Flush Metal Frames, Formed From Minimum 18 Gauge STEEL, FOR OPENINGS REQUIRED TO HAVE A FIRE RESISTANCE RATING I. REFERENCE DOOR SCHEDULE FOR UL LABEL FIRE RESISTANCE RATING REQUIREMENTS.

2. USE ONLY FRAMES RATED FOR HEAVY DUTY EXTERIOR USE. c. FURNISH MANUFACTURER'S STANDARD WOOD FRAMES, FORMED TO MANUFACTURER'S STANDARD

- I. USE ONLY FRAMES RATED FOR HEAVY DUTY EXTERIOR USE. d. INSTALL DOORS AND FRAMES IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS - AND FINAL SHOP DRAWINGS

- I. ANCHOR COMPONENT PARTS SECURELY IN PLACE BY BOLTING, OR OTHER PERMANENT-———— MECHANICAL ATTACHMENT SYSTEM, WHICH WILL COMPLY WITH PERFORMANCE REQUIREMENTS. ----- USE CONCEALED FASTENERS WHEREVER POSSIBLE.

e. MANUFACTURERS: THREMA-TRU, HUTTIG OR EQUAL. 0812. INTERIOR WOOD DOORS WITH WOOD FRAMES (PRE-HUNG)

> a. PROVIDE PRE-HUNG WOOD DOORS IN DIMENSIONS AND STYLES AS SHOWN ON THE DRAWINGS. I. SECURE TEMPLATES FROM THE FINISH HARDWARE SUPPLIER, AND ACCURATELY INSTALL, OR MAKE PROVISIONS FOR, ALL FINISH HARDWARE AT THE FACTORY. PROPERLY REINFORCED DOORS AND FRAMES FOR THE FINISHED HARDWARE SELECTED.

- AND AS SPECIFIED. c. DOORS TO BE PANELED, WITH FACTORY APPLIED PRIMER FINISHED, WOOD. d. FRAMES TO BE MANUFACTURER'S STANDARD PRE-HUNG WOOD WITH FACTORY APPLIED PRIMER - I. ANCHOR COMPONENT PARTS SECURELY IN PLACE BY BOLTING, OR OTHER PERMANENT-

b. MEET OR EXCEED ANI QUALITY STANDARDS FOR ARCHITECTURAL WOOD DOOR REQUIREMENTS

MECHANICAL ATTACHMENT SYSTEM, WHICH WILL COMPLY WITH PERFORMANCE --REQUIREMENTS. USE CONCEALED FASTENERS WHEREVER POSSIBLE. e. MANUFACTURER: PRODUCED BY MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURING OF SIMILAR ITEMS AND WITH A HISTORY OF SUCCESSFUL PRODUCTION AGGEPTABLE TO THE OWNER OR THE OWNER'S REPRESENTATIVE.

PROVIDE STEEL HOLLOW METAL FRAMES FOR HOLLOW METAL AND WOOD DOORS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. PROVIDE FRAMES IN ACCORDANCE WITH ASTM A653, ANSI A250.6, ANSI/SDI A250.6, DHI AII5, NAAMM

AMP 500, NAAMM HMMA 861 AND ANSI/SDI 112. a. INSTALL IN STRICT ACCORDANCE WITH ANSI/SDI 122 AND ANSI/SDI A250.II <u>USING ONLY</u> MANUFACTURER'S SPECIFIED ANCHORING METHODS FOR WALL ASSEMBLIES INDICATED.

I. STANDARD DOUBLE RABBET DRYWALL AND MASONRY FRAMES; WELDED IN ACCORDANCE WITH SECTIONS I THROUGH 6 OF AWS DI.I; I6 GAUGE THICKNESS; FABRICATED FROM TYPE B COMMERCIAL STEEL SHEET WITH 660 METALLIC COATING; FACTORY PRIMED; TWO INCH FACES; WITH PRESS-IN TYPE FRAME SILENCERS; FACTORY PREPARED FOR FINISH HARDWARE: JAMB ANCHORS PER ASTM A591 AND TYPE AS RECOMMENDED BY THE MANUFACTURER; REFER TO DOOR AND HARDWARE SCHEDULES FOR THROAT SIZE.

. EXTERIOR: 16 GAUGE WITH G60 METALLIC COATING ALL SURFACES. . -Interior: 20 Gauge; "knock-down" hollow metal frames acceptable for interior

FINISH: FACTORY PRIMED; FIELD APPLIED PAINT; REFERENCE DIVISION OF OF THESE GENERAL I. FIELD APPLIED PAINT COLOR AS SELECTED BY ARCHITECT FROM PAINT MFR'S STANDARDS.

0814. **PROVIDE FINISH HARDWARE** AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. ALL HARDWARE SHALL BE IN COMPLIANCE WITH OBC CHAPTERS IO AND II, THE DOOR AND HARDWARE INSTITUTE, UNDERWRITERS LABORATORIES, NFPA

TO, NEPA IOI, BHMA I301 AND ICC/ANSI AIIT.I. a. COORDINATE WITH ELECTRICAL CONTRACTOR AND OWNER'S CONTROLLED ACCESS SECURITY SYSTEM CONSULTANT (UNDER SEPARATE CONTRACT) FOR ALL ELECTRICAL REQUIREMENTS AND FOR SEQUENCING OF COMPONENT INSTALLATION FOR ELECTRIFIED STRIKES, HINGES, PANIC HARDWARE, MAGNETIC LOCKS AND ALL OTHER SECURITY SYSTEM ITEMS AT DOORS SUPERVISED BY THE OWNER'S CONTROLLED ACCESS SECURITY SYSTEM. SEE DOOR SCHEDULE GENERAL NOTES AND DOOR SCHEDULE FOR BREAKDOWN OF GC-PROVIDED HARDWARE VS HARDWARE PROVIDED AND INSTALLED BY THE OWNER'S SECURITY SYSTEM CONSULTANT.

I. UNLESS OTHERWISE NOTED, ALL FINISHES TO BE US26D, SATIN CHROME.

2.I. COMPLY WITH ANSI A156.I, GRADE I, ANSI A2III AND ANSI A5IIII; 4-1/2 INCH X 4-1/2 INCH: FULL MORTISE; FIVE KNUCKLE BALL-BEARING; WITH REMOVABLE AND NON-REMOVABLE 2.2. PIANO HINGE WITH INTEGRAL WEATHERSRIPPING

2.I. HAGER OR APPROVED EQUAL. 3. LEVERS: CYLINDRICAL, COMPLY WITH ANSI AI56.13 GRADE I

6. AUTOMATIC DOOR OPERATOR: COMPLY WITH ANSI A156.19.

d. MANUFACTURER: STEELCRAFT OR EQUAL.

2. HINGE:

4. EXIT DEVICE: COMPLY WITH ANSI AI56.3, GRADE I; STANDARD STILE DESIGN; LATCHING AS NOTED; NO LATCH DOGGING AT ELECTRIFIED DEVICES. 5. DEADBOLTS: UL 437, ANSI 156.5, GRADE I

7. CLOSER: COMPLY WITH ANSI AI56.4, GRADE I; UNIVERSAL HANDING; REGULAR, TOP JAMB AND PARALLEL ARM MOUNTING: STEEL RACK AND PINION CONSTRUCTION: PRESSURE CAST STEEL OR ALUMINUM CASE; VACUUM AND PRESSURE IMPREGNATED WITH RESIN TO REDUCE THE POSSIBILITY OF MICRO-POROSITY; FURNISHED WITH A REVERSIBLE POWER ADJUSTMENT ARM BRACKET FOR A 15 PERCENT LATCHING FORCE ADJUSTMENT; SPEED SHALL BE ADJUSTABLE

AND IN COMPLIANCE WITH ICC AIIT.I; MANUFACTURER'S STANDARD POWDER COAT FINISH. 8. TRIMS: COMPLY WITH ANSI A156.6, ANSI A156.16, ANSI A156.18 AND ANSI A156.22. 9. THRESHOLDS: COMPLY WITH ANSI A156,21 AND ICC A117.1

IO. FRAME SILENCERS: INSERTED IN PRE-PUNCHED HOLES IN HOLLOW METAL DOOR FRAMES;

RUBBER; THREE PER STRIKE JAMB. b. MANUFACTURERS AND PRODUCTS: I. EXTERIOR HINGE: HAGER ECBBIIO3NRP; OR APPROVED EQUAL; US32D FINISH. 2. LEVER LOCKSET: SCHLAGE, GRADE I, RHODES SERIES OR APROVED EQUAL.

3. CLOSER: LCN 4000 SERIES, FINISH TO MATCH LOCKSET; OR APPROVED EQUAL.

AIR-LOCK VESTIBULES AND AT DOORS EXCEEDING 36" IN WIDTH. PROVIDE STANDARD DUTY AT ALL OTHER DOORS THAT ARE SCHEDULED TO RECEIVE CLOSERS. 4. DEADBOLT; SCHLAGE B664P, GRADE I, COMMERCIAL ONE SIDED KEYED LOCK. 5. AUTOMATIC DOOR OPERATOR: NORTON 5900 SERIES; OR APPROVED EQUAL.

7. ALL EXIT DEVICES TO BE PROVIDED BY GC: VON DUPRIN 9947, CONCEALED VERTICAL ROD SERIES; ELECTRIFIED AND/OR FIRE RATED WHERE SCHEDULED; OR APPROVED EQUAL. 8. ELECTRIFIED STRIKES TO BE PROVIDED AND INSTALLED BY OWNER'S PREFERRED CONTROLLED ACCESS SECURITY CONSULTANT WHERE SCHEDULED. SEE DOOR SCHEDULE

3.I. PROVIDE HEAVY DUTY CLOSERS AT ALL EXTERIOR DOORS AND INTERIOR DOORS AT

IO.I. FLOOR: HAGER 052150 HIGH FLOOR DOME STOP, SATIN CHROME OR APPROVED EQUAL. IO.2. WALL: 2 1/5" DIA. STEEL ESCUTCHEON, SATIN STAINLESS STEEL FINISH, WITH CONCAVE RUBBER DOOR STOP, ROCKWOOD #409 OR APPROVED EQUAL. II. TRIMS

9. PUSH/PULL: HAGER 305-8x16 PUSH AND HAGER 33E-4x16 PULL, OR APPROVED EQUAL.

a) KICK PLATE: HAGER 1985, 18"x34", STAINLESS STEEL, OR APPROVED EQUAL. b) WEATHER-STRIPPING, PERIMETER: CONCEALED FASTENER; NATIONAL GUARD 1725; OR APPROVED EQUAL. c) SHOE: NATIONAL GUARD 319; OR APPROVED EQUAL

12. EXTERIOR DOOR THRESHOLDS: NATIONAL GUARD 896V, MIL FINISH, SLIP RESISTANT, ADA ACCESSIBLE. EQUALS BY HAGER, OR PEMKO. 13. RAMP THRESHOLDS AT INTERIOR DOORS WHERE SCHEDULED: BARRIER FREE, 6" x 1/2"

MODULAR, DARK BRONZE ANODIZED ALUMINUM, MODEL #259 OR APPROVED EQUAL. 14. KEY CYLINDER: MATCH LOCKSET MANUFACTURER. c. KEYING REQUIREMENTS:

6. ACTUATOR SYSTEM: LCN

IO. STOPS:

NOTES AND GENERAL NOTES.

 COORDINATE KEYING SCHEDULE WITH THE OWNER. 2. FURNISH QUANTITY OF MASTER KEYS AS REQUIRED BY THE OWNER. 3. ALL PRODUCTS SHALL BE FROM THE SAME SOURCE. d. INSTALLER SHALL HAVE NO LESS THAN FIVE YEARS OF DOCUMENTED EXPERIENCE WITH THE

TYPE OF HARDWARE SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT.

0815. NOT USED.

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TIDI 426 EAST MAIN STREET LANCASTER, OHIO 43130 (740) 654-4048 phone: facsimile: (740) 654-3009

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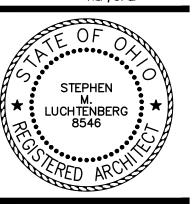
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GENERAL NOTES DIVISION 7 **THROUGH** DIVISION 8

I. GLAZING SYSTEMS SHALL WITHSTAND NORMAL THERMAL MOVEMENT, WIND LOADS AND IMPACT LOADS (WHERE APPLICABLE) WITHOUT FAILURE AND SHALL REMAIN AIR AND WATERTIGHT

(WHERE APPLICABLE). 2. REFERENCE THE STRUCTURAL DRAWINGS FOR DESIGN WIND SPEED, IMPORTANCE FACTOR,

EXPOSURE CATEGORY AND LOADS. 3. DESIGN FOR THERMAL MOVEMENT FROM AMBIENT AND SURFACE TEMPERATURE CHANGES AND BASED ON SURFACE TEMPERATURE OF MATERIALS DUE TO SOLAR HEAT GAIN AND NIGHTTIME SKY HEAT LOSS.

4. FOR GLASS SUPPORTED ON ALL FOUR EDGES, LIMIT CENTER-OF-GLASS DEFLECTION AT DESIGN WIND PRESSURE TO NOT MORE THAN 1/50 TIMES THE SHORT-SIDE LENGTH OR ONE INCH, WHICHEVER IS LESS.

5. DESIGN TO RESIST THERMAL STRESSES INDUCED BY DIFFERENTIAL SHADING WITHIN INDIVIDUAL GLASS LITES. b. MATERIAL

I. FLOAT GLASS (ANNEALED): COMPLY WITH ASTM C1036, TYPE I, , CLASS I, QUALITY Q3.

FLOAT GLASS (HEAT TREATED): COMPLY WITH ASTM CIO48, TYPE I, CLASS I, QUALITY Q3; HORIZONTALLY TREATED. 3. CLEAR TEMPERED GLASS: COMPLY WITH ASTM CIO48, KIND FT, CONDITION A, TYPE I, CLASS I,

QUALITY Q3. 4. INSULATED UNIT: COMPLY WITH ASTM E2190; FACTORY ASSEMBLED UNIT COMPRISING OF TWO ORGANICALLY SEALED SHEETS OF TEMPERED GLASS SEPARATED BY DEHYDRATED

(DESSICATED), GAS FILLED AIR SPACE; OUTER SHEET LOW E 366, INNER SHEET CLEAR; MINIMUM 3/4 INCHES TOTAL THICKNESS. 5. SETTING BLOCKS AND SPACERS: COMPLY WITH ASTM C864; SEMI-HARD NEOPRENE OR VINYL RUBBER; 70-90 SHORE A HARDNESS WHEN TESTED IN ACCORDANCE WITH ASTM D2240; WIDTH

EQUAL TO THE THICKNESS OF THE GLASS AND LONG ENOUGH TO LIMIT LOAD ON EACH BLOCK TO I5LB/SQ.IN.; THREE INCHES MINIMUM LENGTH OF SETTING BLOCKS. 6. GLAZING GASKET: COMPLY WITH ASTM C509; CHANNEL TYPE, CONTINUOUS, CLOSED-CELL EXTRUDED NEOPRENE OR VINYL RUBBER; SHALL BE CAPABLE OF BEING COMPRESSED 40 PERCENT ORIGINAL SIZE AND SHALL HAVE 100 PERCENT RECOVERABILITY WHEN TESTED IN

ACCORDANCE WITH ASTM F36. 7. GLAZING TAPE: SYNTHETIC RUBBER SHEET OR STRIP MATERIAL REINFORCED AND STABILIZED WITH FABRIC MESH; TREATED WITH A BONDING AGENT ON BOTH CONTACT SURFACES.

c. SCHEDULE REFERENCE THIS GENERAL NOTE SECTION.

2. INTERIOR DOOR VISION PANEL: TEMPERED

3. WINDOWS: REFER TO THE WINDOW SECTION THIS DIVISION.

d. VISIBLE REFLECTANCE IN ACCORDANCE WITH NFRC 300. e. FIRE-RESISTANT-RATED GLAZING IN OPENING PROTECTIVES SHALL BE TESTED IN ACCORDANCE WITH ASTM EII9 OR U. L. 263, AND SHALL BE PERMANENTLY MARKED AND IDENTIFIED IN ACCORDANCE WITH OBC SECTION 716.

: TEMPERED GLAZING SHALL BE PERMANENTLY MARKED WITH THE CERTIFICATION LABEL OF THE SGCC, MANUFACTURER'S NAME, TYPE OF GLASS, THICKNESS AND SAFETY GLAZING STANDARD WITH WHICH THE GLASS COMPLIES.

q. INSULATED UNIT SHALL BE PERMANENTLY MARKED WITH THE APPROPRIATE CERTIFICATION LABEL OF IGCC.

. Warranty COATED GLASS: 10 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION. 2. INSULATED UNIT: 10 YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION.

a. PROVIDE EXTRUDED VINYL WINDOW UNITS, WITH, BRONZE, LOW-E INSULATING GLASS, IN

DIMENSIONS AND STYLES INDICATED ON THE DRAWINGS I. FURNISH WINDOW UNITS WITH MANUFACTURER'S MOLDED NAILING FLANGE.

2. FURNISH WINDOW UNITS WITH MANUFACTURER'S STANDARD INSECT SCREENS. b. GRADE REQUIREMENTS: MEET OR EXCEED AAMAANWADA 101/1.5.2-47, 11-LC25 GRADE. c. THERMAL PERFORMANCE: NFRC 100-97, U-VALUE OF 0.30.

d. SOLAR HEAT GAIN COEFFICIENT: NFRC 200-97, NOT TO EXCEED 0.30. e. GLAZING: LOW-E, SEALED INSULATING GLASS UNIT, 3/4 INCH UNIT THICKNESS, WITH ARGON GAS

I. ALL WINDOW UNITS TO HAVE USDE ENERGY STAR CONFORMANCE LABEL f. <u>Manufacturer: Produced by a manufacturer regularly engaced in the manufacturin</u>c OF SIMILAR ITEMS FOR A MINIMUM OF TEN (IO) YEARS AND WITH A HISTORY OF SUCCESSFUL-PRODUCTION ACCEPTABLE TO THE OWNER OR OWNER'S REPRESENTATIVE.

ą. – ASSEMBLE WINDOW UNITS COMPLETELY IN FACTORY, INCLUDING OPERATING HARDWARE AND h. INSTALL WINDOW UNITS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTALLATION

. PROPERLY FLASH AND COUNTER-FLASH ROUGH OPENINGS IN ACCORDANCE WITH FLASHING AND WINDOW MANUFACTURER'S REQUIREMENTS, REFERENCE DIVISION 07, WINDOW PAN

- FI ASHING a) PAN FLASHING: INSTALLED THE ENTIRE PERIMETER OF THE OPENING: AS RECOMMENDED

BY THE WINDOW MANUFACTURER AND PER ASTM E331 AND ASTM E96 2. SET WINDOW UNITS SQUARE, PLUMB AND LEVEL, ANCHORED TO SUBSTRATE AS DIRECTED:

- 3. SEAL NAIL FLANCES IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS. 4. APPLY JOINT SEALANTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTION.

0818. PROVIDE OPERABLE AND FIXED ALUMINUM CLAD, ROUND TOP WOOD WINDOWS AS SHOWN ON THE PRAMINGS AND AS NOTED HEREIN, WITH COMPONENTS AS REQUIRED FOR COMPLETE, WEATHER-TIGHT INSTALLATION. INCLUDES PREPARATION OF THE OPENING FOR MATERIAL INSTALLATION, FLASHINGS, Fasteners, sealants and all other Items and Incidentals as required for an airtight and

WEATHER-TIGHT SYSTEM. COMPLY WITH AAMA/WDMA/CSA 101/1.5.2/A440-05. a. HANDLING AND INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

b. Material. Refer to the dramings for specific sizes.

I. WINDOW UNIT: FACTORY ASSEMBLED; EXTERIOR SHALL BE EXTRUDED ALUMINUM CLAD (PER AAMA 101/1.5.2/A440) (MINIMUM 0.050 INCH THICKNESS) WITH FLUOROPOLYMER MODIFIED ACRYLIC FINISH OVER PRIMER: INTERIOR UNFINISHED CLEAR PINE: FRAME SHALL BE WATER REPELLENT PRESERVATIVE TREATED IN ACCORDANCE WITH WDMA LS.4: FACTORY INSTALLED JAMB

EXTENSIONS WHERE REQUIRED; CONDENSATION RESISTANCE FACTOR 57; THERMAL TRANSMITTANCE U-0.28 MAXIMUM, SOLAR HEAT GAIN COEFFICIENT 0.32-0.33; VISUAL TRANSMITTANCE 0.56-0.57. 2. GLAZING: DOUBLE SHEET; TINTED (COLOR SELECTED BY OWNER); INSULATED GLASS; LOW E 272;

ARGON FILLED; COMPLY WITH ASTM E2190 AND ASTM C1036; SPANDREL IN UNITS AS INDICATED ON THE DRAWINGS. 3. FASTENERS: AS RECOMMENDED BY THE MANUFACTURER; COMPLY WITH AAMA 101/1.5.2/A440;

4. NO EXPOSED HARDWARE. 5. PAN FLACHING: INSTALLED THE ENTIRE PERIMETER OF THE OPENING; AS RECOMMENDED BY THE WINDOW MANUFACTURER AND PER ASTM E331 AND ASTM E96.

6. SEALANT: REFER TO DIVISION OF THESE GENERAL NOTES. MANUFACTURER: PELLA ARCHITECTURAL SERIES OR EQUAL BY MARVIN WINDOW, ULTIMATE CASEMENT: d. Exterior color: As selected by owner or owner's representative from manufacturer's

e. INTERIOR PAINT COLOR (FIELD APPLIED): AS SELECTED BY ARCHITECT. . WARRANTY: MINIMUM IO YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

0902. EXAMINE SUBSTRATES, SUPPORTING STRUCTURE AND INSTALLATION CONDITIONS. DO NOT PROCEED q. ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM ONE MANUFACTURER. THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE

WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS PROJECT: PRIOR TO THE COMMENCEMENT OF WORK, PROVIDE A MOCK-UP OF ONE WINDOW UNIT FOR APPROVAL BY THE OWNER, THE OWNER'S REPRESENTATIVE AND THE ARCHITECT, AND IF REQUESTED, THE MANUFACTURER. THE MOCK-UP IS TO INCLUDE ALL FLASHING, TAPES, ETC. THE MOCK-UP, IF APPROVED, MAY BE INCORPORATED IN THE WORK.

0819. ROLLING COUNTER SHUTTER

POWER OPERATED, I 1/5 HOUR FIRE RATED, FUSIBLE LINK ACTUATED ROLLING COUNTER SHUTTER a. PROVIDE AND INSTALL POWER OPERATED ROLLING COUNTER SHUTTER, HOOD HOUSING, MOTOR, CONTROLS, GUIDES, COUNTERBALANCES, BOTTOM BAR AND ALL OTHER PARTS AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERATIONAL ASSEMBLY.

b. PRIOR TO ORDERING PRODUCT, SUBMIT PRODUCT-SPECIFIC MANUFACTURER'S LITERATURE, JOB SPECIFIC INSTALLATION SHOP DRAWINGS AND INSTALLER'S CREDENTIALS FOR REVIEW BY THE ARCHITECT. DO NOT PROCEED WITH INSTALLATION PRIOR TO ARCHITECT'S REVIEW. c. EXAMINE ALL ADJACENT SURFACES FOR COMPLIANCE WITH INSTALLATION REQUIREMENTS. COMMENCEMENT OF WORK INDICATES INSTALLER'S ACCEPTANCE OF PROJECT CONDITIONS: AFTER WHICH ANY ADDITIONAL REQUIRED PREPARATION OF ADJACENT SURFACES FOR

INSTALLATION SHALL BE AT THE INSTALLER'S COST. d. FIELD MEASURE EXISTING CONDITIONS PRIOR TO ORDERING PRODUCT. e. COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL REQUIRED POWER AND CONTROL WIRING.

F. INSTALL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. a. PRODUCT SPECS

I. PREFINISHED GALY STEEL INTERLOCKING FLAT PROFILE SLATS WITH END LOCKS AND BOTTOM BAR

I.I. 'SPECTRASHIELD' FINISH 2. WALL MOUNTED GUIDES.

HELICAL TORSION SPRINGS HOUSED IN A STEEL TUBE WITHIN PREFINISHED ALUMINUM HOUSING. 4. ELECTRIC MOTOR

5. 1/2 HOUR FIRE RATED PLASTIC LAMINATE WALL LEDGE. COLOR AS SELECTED.

I. CORNELL/COOKSON, MODEL # ERC IO, OR APPROVED EQUAL.

0900. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THESE GENERAL NOTES.

a. GYPSUM BOARD b. TILING FLOOR GOVERING

DIVISION 9 - FINISHES

ACOUSTICAL CEILING SUSPENSION ASSEMBLIES

d. FLOOR COVERINGS AND WALL BASE e. PAINTING AND COATING

0901. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION a. GYPSUM ASSOCIATION (GA)

I. GA-214, RECOMMENDED LEVELS OF FINISH FOR GYPSUM BOARD, GLASS MAT AND FIBER-REINFORCED GYPSUM PANELS 2. GA-216, APPLICATION AND FINISHING OF GYPSUM PANEL PRODUCTS

3. GA-222, REPAIRING SCREW AND NAIL POPS 4. GA-801, HANDLING AND STORAGE OF GYPSUM PANEL PRODUCTS

b. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) I. ICC/ANSI IIT.I, GUIDELINES FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES c. TILE COUNCIL OF NORTH AMERICA (TCNA)

I. TONA HANDBOOK FOR TILE INSTALLATION d. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) I. ANSI AIO.20, SAFE OPERATING PRACTICES FOR TILE

2. ANSI AIO8.01, SUBSURFACES AND PREPARATIONS BY OTHER TRADES 3. ANSI AI08.02, MATERIALS, ENVIRONMENTAL AND WORKMANSHIP

4. ANSI AIO8.IA, INSTALLATION OF CERAMIC TILE IN WET-SET METHOD WITH PORTLAND CEMENT 5. ANSI AIO8.6, INSTALLATION OF CERAMIC TILE WITH CHEMICAL RESISTANT, WATER-CLEANABLE

TILE SETTING AND GROUT EPOXY 6. ANSI AIO8.IO, INSTALLATION OF GROUT IN TILE WORK 7. ANSI AII8.3, SPECIFICATION FOR CHEMICAL RESISTANT, WATER-CLEANABLE TILE SETTING AND

GROUT EPOXY 8. ANSI AI37.I, SPECIFICATIONS FOR CERAMIC TILE

e. CEILINGS AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION (CISCA) I. CISCA CEILING SYSTEMS HANDBOOK 2. CISCA SEISMIC (ZONES 0-2) RECOMMENDATIONS FOR DIRECT-HUNG ACOUSTICAL TILE AND

LAY-IN PANEL CEILINGS . CODE OF FEDERAL REGULATIONS (CFR) 40 CFR 60, DETERMINATION OF VOLATILE MATTER CONTENT, WATER CONTENT, DENSITY,

VOLUME SOLIDS AND WEIGHT SOLIDS OF SURFACE COATINGS 2. 40 CFR 59, NATIONAL VOLATILE ORGANIC COMPOUND EMISSION STANDARDS FOR ARCHITECTURAL COATINGS

q. MASTER PAINTER'S INSTITUTE (MPI) MPI ARCHITECTURAL PAINTING AND SPECIFICATION MANUAL

h. HOLLOW METAL MANUFACTURERS ASSOCIATION . HMMA 840-TNOI, PAINTING HOLLOW METAL PRODUCTS

I. SOCIETY FOR PROTECTIVE COATINGS (SSPC) SSPC PA-I, SHOP, FIELD AND MAINTENANCE PAINTING OF STEEL

2. PAINT SYSTEM GUIDE NO. 14, GUIDE FOR THE REPAIR OF IMPERFECTIONS IN GALVANIZED OR INORGANIC ZINC-COATED STEEL USING ORGANIC ZINC-RICH COATING

PAINTING AND DECORATING CONTRACTORS OF AMERICA (PDCA) I. PDCA STANDARD PL

2. PDCA STANDARD P4 3. PDCA STANDARD PI3

4. PDCA STANDARD PI5 k. AMERICAN SOCIETY FOR TESTING MATERIALS

. ASTM A641, STANDARD SPECIFICATION FOR ZINC-COATED (GALVANIZED) CARBON STEEL WIRE 2. ASTM A653, STANDARD SPECIFICATION FOR STEEL SHEET, ZINC COATED (GALVANIZED) OR

ZINC IRON ALLOY COATED (GALVANNEALED) BY THE HOT DIP PROCESS 3. ASTM A666, STANDARD SPECIFICATION FOR ANNEALED OR COLD WORKED AUSTENITIC STAINLESS STEEL SHEET, STRIP, PLATE AND FLAT BAR

4. ASTM A780, STANDARD PRACTICE FOR REPAIR OF DAMAGED AND UNCOATED AREAS OF HOT-DIP GALVANIZED COATINGS 5. ASTM CII, STANDARD TERMINOLOGY RELATING TO GYPSUM AND RELATED BUILDING MATERIALS

6. ASTM C475, STANDARD SPECIFICATION FOR JOINT COMPOUND AND JOINT TAPE FOR FINISHING GYPSUM BOARD

7. ASTM C553, STANDARD SPECIFICATION FOR MINERAL FIBER BLANKET THERMAL INSULATION FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS 8. ASTM C557, STANDARD SPECIFICATION FOR ADHESIVES FOR FASTENING GYPSUM WALLBOARD

TO WOOD FRAMING 9. ASTM C635, STANDARD SPECIFICATION FOR MANUFACTURE, PERFORMANCE AND TESTING OF

METAL SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS IO. ASTM C636, STANDARD SPECIFICATION FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS II. ASTM C655, STANDARD SPECIFICATION FOR MINERAL-FIBER BLANKET THERMAL INSULATION

FOR LIGHT FRAME CONSTRUCTION AND MANUFACTURED HOUSING 12. ASTM C840. STANDARD SPECIFICATION FOR APPLICATION AND FINISHING GYPSUM BOARD 13. ASTM C919, STANDARD PRACTICE FOR USE OF SEALANTS IN ACOUSTICAL APPLICATIONS 14. ASTM CIOO2, STANDARD SPECIFICATION FOR STEEL SELF-PIERCING TAPPING SCREWS FOR

THE APPLICATION OF GYPSUM PANEL PRODUCTS OR METAL PLASTER BASES TO WOOD OR 15. ASTM CIO47, STANDARD SPECIFICATION FOR ACCESSORIES FOR GYPSUM WALLBOARD AND

GYPSUM VENEER BASE I6. ASTM CI320, STANDARD PRACTICE FOR INSTALLATION MINERAL FIBER BATT AND BLANKET THERMAL INSULATION FOR LIGHT FRAME CONSTRUCTION

17. ASTM C1396, STANDARD SPECIFICATION FOR GYPSUM BOARD 18. ASTM D2047, STANDARD TEST METHOD FOR STATIC COEFFICIENT OF FRICTION OF POLISH-COATED FLOORING SURFACES AS MEASURED BY THE JAMES MACHINE 19. ASTM D6386, STANDARD PRACTICE FOR PREPARATION OF ZINC (HOT DIP GALVANIZED)

COATED IRON AND STEEL PRODUCT AND HARDWARE SURFACES FOR PAINTING 20.ASTM D7073, STANDARD GUIDE FOR APPLICATION AND EVALUATION OF BRUSH AND ROLLER APPLIED PAINT FILMS

21. ASTM E84, STANDARD TEST METHOD FOR SURFACE BURNING CHARACTERISTICS OF BUILDING 22.ASTM E90, STANDARD TEST METHOD FOR LABORATORY MEASUREMENT OF AIRBORNE SOUND TRANSMISSION LOSS OF BUILDING PARTITIONS AND ELEMENTS

23. ASTM E413, CLASSIFICATION FOR RATING SOUND INSULATION 24.ASTM E580, STANDARD PRACTICE FOR INSTALLATION OF CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS IN AREAS SUBJECT TO EARTHQUAKE GROUND MOTIONS 25. ASTM E648, STANDARD TEST METHOD FOR CRITICAL RADIANT FLUX OF FLOORCOVERING

SYSTEMS USING A RADIANT ENERGY SOURCE 26.ASTM EII55, STANDARD TEST METHOD FOR DETERMINING FLOOR FLATNESS AND FLOOR

LEVELNESS 27. ASTM EI264, STANDARD CLASSIFICATION FOR ACOUSTICAL CEILING PRODUCTS 28.ASTM F7IO, STANDARD PRACTICE FOR PREPARING CONCRETE FLOORS TO RECEIVE RESILIENT

29. ASTM F1861, STANDARD SPECIFICATION FOR RESILIENT WALL BASE

WITH ANY WORK OF THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. a. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE.

b. FIELD VERIFY MEASUREMENTS. DO NOT SCALE DRAWINGS OR CALCULATE SIZES, AREAS, LENGTHS, QUANTITIES, ETC. FROM DIMENSIONS SHOWN. 0903. GYPSUM BOARD SYSTEMS SHALL COMPLY WITH OBC CHAPTERS & AND 25, AND SHALL HAVE A

CLASS C (USE GROUP B, SPRINKLERED) FINISH REQUIREMENTS IN ACCORDANCE WITH OBC TABLE 803.I.I. PROVIDE GYPSUM BOARD SYSTEMS AS SHOWN AND SPECIFIED. a. WORK INCLUDES NEW INTERIOR WALL AND PARTITION ASSEMBLIES. b. CEILING ASSEMBLIES c. PATCHING AND FINISHING OF EXISTING GYPSUM BOARD WALLS, PARTITIONS, AND CEILINGS.

d. PROVIDE ALL ACCESSORIES, TRIM AND JOINT FINISHING. 0904. PROVIDE LEVEL AND PATCH PREPARATION OF SUBSTRATES FOR FLOOR COVERING AS REQUIRED BY

THE MANUFACTURER OF THE SYSTEM BEING INSTALLED. a. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS AND ICC/ANSI AIIT.I.

b. CEMENTITIOUS MATERIAL CRACK AND JOINT TREATMENTS 2. PATCHING COMPOUNDS.

3. SELF-LEVELING UNDERLAYMENTS. 4. PRIMERS. 5. MOISTURE CONTROL SYSTEMS. c. MANUFACTURER: ARDEX OR EQUAL

AND SCOPE TO THIS PROJECT.

d. CONCRETE SUBSTRATE PREPARATION I. SHALL HAVE A DENSITY NOT LESS THAN 100 POUNDS PER CUBIC FOOT OR COMPRESSIVE STRENGTH LESS THAN 3000 PSI. 2. CLEANING AS RECOMMENDED BY THE MANUFACTURER AND SHALL BE IN ACCORDANCE WITH

ASTM D4258, ASTM D4259 AND ASTM D4260. 3. ACID WASHING OR ACID ETCHING IS PROHIBITED. e. ALL PRODUCTS SHALL BE FROM ONE SOURCE, FROM A SINGLE MANUFACTURER. F. THE INSTALLING CONTRACTOR SHALL HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE APPLICATION OF SURFACE PREPARATION MATERIALS AND SIMILAR IN SIZE

0905. PROVIDE GYPSUM BOARD ASSEMBLIES AS SHOWN ON DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES FASTENERS AND ALL OTHER

ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE SYSTEM. a. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS.

b. MATERIAL: I. GYPSUM BOARD PANEL: U. L. LABELED, 48 IN. WIDE BY MAXIMUM LENGTH POSSIBLE; 5/8 IN. THICKNESS. IN COMPLIANCE WITH ASTM C840 AND ASTM C1396, TAPERED EDGES; INSTALL TYPE

"FIRE-CODE" GYPSUM BOARD PANEL AS DESIGNATED 2. MOLD/MOISTURE-RESISTANT GYPSUM BOARD PANEL: U. L. LABELED, 48 IN. WIDE BY MAXIMUM

LENGTH POSSIBLE, 5/8 IN. THICKNESS, IN COMPLIANCE WITH ASTM C840 AND ASTM C1396,

TAPERED EDGES; INSTALL TYPE "FIRE-CODE" GYPSUM BOARD PANEL AS DESIGNATED. 3. Sound Damped Cypsum Board: U. L. Labeled, 48 In. Wide by Maximum Length Possible; 5/8 IN. THICKNESS, IN COMPLIANCE WITH ASTM C840, ASTM C1396, ASTM E90, ASTM E413, TAPERED EDGES; INSTALL SOUND DAMPED TYPE "FIRE GODE" GYPSUM BOARD PANEL AS — DESIGNATED.

4. EXTERIOR GYPSUM BOARD SHEATHING: U. L. LABELED, ASTM CIITT, GYPSUM, MOISTURE RESISTANT, CORE, FACED WITH EMBEDDED CLASS MAT; 5/8 IN. THICK OR IN THICKNESS AS SPECIFIED ON DRAWINGS, SQUARE EDGE; SEAL ALL CUT EDGES; FINISH JOINTS AS SPECIFIED BY

THE MANUFACTURER 5. CORNER BEAD, EDGE TRIM AND CONTROL JOINT: FORMED METAL OR METAL COMBINED WITH PAPER; SHEET STEEL COATED WITH ZINC BY HOT DIP PROCESS OR ELECTROLYTIC PROCESS.

6. FASTENER FOR GYPSUM WALLBOARD: ASTM CIOO2; AS RECOMMENDED BY THE PANEL

MANUFACTURER FOR THE APPLICATION INDICATED ON THE DRAWINGS. 7. JOINT TREATMENT: ASTM C475, UTILIZE JOINT TAPE AND READY-MIXED VINYL TAPE COMPOUND FOR TAPE BEDDING AND TOPPING.

8. GYPSUM BOARD STUD ADHESIVE: ASTM C475 AND MANUFACTURER'S RECOMMENDED ADHESIVE FOR USE WITH METAL WALL/PARTITION FRAMING AND WOOD ROOF FRAMING, LOW YOC. 9. ACOUSTICAL SEALANT: U. L. LABELED, ASTM C834 AND AS RECOMMENDED BY GYPSUM BOARD MANUFACTURER FOR SEALING SOUND RATED GYPSUM BOARD WALL, PARTITION, AND CEILING ASSEMBLIES, LOW YOC.

c. MANUFACTURER, GYPSUM BOARD PANEL AND GYPSUM BOARD SHEATHING: UNITED STATES GYPSUM, GEORGIA PACIFIC, GOLD BOND BUILDING PRODUCTS, PABCO GYPSUM. d. MANUFACTURER, FASTENER: GRABBER; HILTI

e. EACH TYPE OF PRODUCT SHALL BE FROM ONE SOURCE.

0906. GYPSUM BOARD INSTALLATION: CLEAN AND INSPECT SUBSTRATE SURFACES BEFORE INSTALLING GYPSUM BOARD.

a. COMPLY WITH GA 216 "RECOMMENDED SPECIFICATIONS FOR THE APPLICATION AND FINISHING OF b. FURNISH A LEVEL 4 FINISH TO ALL SURFACES OF EXISTING AND NEWLY CREATED ROOMS/SPACES

IN ACCORDANCE WITH ASTM C840 REQUIREMENTS. ;. SINGLE-LAYER WALLS AND PARTITIONS: APPLY SHEETS VERTICALLY OR HORIZONTALLY. d. DOUBLE-LAYER WALLS AND PARTITIONS: APPLY BOTH LAYERS VERTICALLY WITH JOINTS OF BASE LAYER OVER SUPPORTS/FRAMING AND JOINTS OF FACE LAYER OFFSET AT LEAST IO IN. WITH BASE LAYER JOINTS. MECHANICALLY FASTEN BASE LAYER, LAMINATE FACE LAYER TO BASE LAYER. ENSURE UNIFORM ADHESION.

e. FIRE-RESISTANT-RATED ASSEMBLIES: PROVIDE MATERIALS AND INSTALLATION IDENTICAL TO THE U. L. LABELED TESTED AND LISTED ASSEMBLIES ON THE DRAWINGS. PROVIDE FRAMING ON BOTH SIDES OF JOINT AND BACK JOINT WITH 2 IN. WIDE GYPSUM BOARD STRIPS. F. INSTALL TRIMS AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FINISH

AS RECOMMENDED. q. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR MIXING, HANDLING, AND APPLICATION OF MATERIALS. DO NOT USE BEDDING COMPOUNDS FOR FINAL COAT OF JOINT TREATMENT UNLESS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THAT USE.

0907. EXTERIOR GYPSUM SHEATHING BOARD

a. SHEATHING BOARD - I. CHARACTERISTICS

I) "DENS-CLASS GOLD" SHEATHING OR OWNER APPROVED EQUAL: 5/8 INCH THICK BY 4' 2. COMPOSITION:

BOTH SIDES AND LONG EDGES, WATER-RESISTANT TREATED CORE. b. BUILDING PAPER - MOISTURE BARRIER I. USE NO. 15, NON-PERFORATED, ASPHALT SATURATED FELT COMPLYING WITH ASTM D 226,

a) GYPSUM SHEATHING MANUFACTURED IN ACCORDANCE WITH ASTM CIITT WITH GLASS MATS

2. AT EIFS FINISH SYSTEM: USE ONLY THE TYPE OF MOISTURE BARRIER AS APPROVED AND RECOMMENDED BY THE EIFS MANUFACTURER.

c. ACCESSORIES - I. JOINT TAPE: 2" WIDE, IOXIO GLASS MESH TAPE 2. JOINT COMPOUND: G-P CYPSUM SETTING-TYPE JOINT COMPOUND.

- I. TYPE S-12, BUGLE HEAD, SELF-TAPPING, RUST-RESISTANT, FINE THREAD FOR HEAVY-STEEL 2. TYPE S, BUGLE HEAD, RUST-RESISTANT SHARP POINT, FINE THREAD FOR LIGHT-GAUGE METAL

FRAMING OR FURRING. e. SCREWS, METAL OR WOOD FRAMING: I. WAFER HEAD, RUST-RESISTANT, TYPE S-12 DRILL OR HI-LO, MIN. I" LENGTH. OR TYPE W RUST-REGISTANT, BUGLE HEAD, COARSE THREAD, SHARP POINT FOR WOOD.

F. PROVIDE DENS-GLASS GOLD SHEATHING WHERE INDICATED ON DRAWINGS. INSTALL SHEATHING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND APPLICABLE INSTRUCTIONS IN GA-253 AND ASTM 61280.

I. INSTALL DENS-GLASS GOLD SHEATHING WITH GOLD SIDE OUT. 2. USE MAXIMUM LENGTHS POSSIBLE TO MINIMIZE NUMBER OF JOINTS. - 3. METAL FRAMING: ATTACH DENS-GLASS GOLD SHEATHING TO METAL FRAMING WITH SCREWS

SPACED 8" O.C. AT PERIMETER WHERE THERE ARE FRAMING SUPPORTS; AND 8" O.C. ALONG INTERMEDIATE FRAMING IN FIELD. 4. DRIVE FASTENERS TO BEAR TIGHT AGAINST AND FLUSH WITH SURFACE OF SHEATHING. DO NOT COUNTERSINK

5. LOGATE FASTENERS MINIMUM 3/8 INCH FROM EDGES AND ENDS OF SHEATHING PANELS: q. BUILDING PAPER: INSTALL BUILDING PAPER - MOISTURE BARRIER OR EQUAL WITH FLASHING h. FINISHING:

- I. SEAL FASTENERS USING DOW CORNING 795 OR BORDEN HPPG ELMERS SILICONIZED ACRYLIC LATEX CAULK OR EQUIVALENT. 2. FINISH JOINTS USING DOW CORNING 745 OR BORDEN HPPG ELMERS SILICONIZED ACRYLIC LATEX CAULK OR EQUIVALENT. REINFORCE WITH 2 INCHES WIDE TO X TO GLASS MESH QUICK

TAPE OR EQUIVALENT. I. CAUTION: THIS PRODUCT CONTAINS CONTINUOUS FILAMENT FIBERGLASS FIBER RELEASED DURING NORMAL HANDLING OF THIS PRODUCT GAN GAUSE SKIN, EYE AND RESPIRATORY IRRITATION; — AVOID BREATHING DUST AND CONTACT WITH SKIN AND EYES. FOLLOW STANDARD WORK

0908. UNLESS OTHERWISE INDICATED OR SPECIFIED BY THE MANUFACTURER, THE SUBSTRATE FOR FLOOR COVERINGS SHALL BE STEEL TROWELED AND LEVEL TO A TOLERANCE OF 1/8 INCH IN A TEN FOOT

- PRACTICES AS RECOMMENDED BY THE SHEATHING MANUFACTURER.

3. GROUT GT-I FOR POR T-I: TBD BY INTERIOR DESIGNER.

0909. PROVIDE PORGELAIN TILE FLOOR AND WALL FINISH AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, INCLUDES PREPARING THE SUBSTRATE TO ACCEPT MATERIALS, EDGE STRIPS, TRANSITION STRIPS, THIN-SET, WALL ADHESIVE; WALL TRIMS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE INSTALLATION. a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS, TCA'S "HANDBOOK FOR CERAMIC TILE INSTALLATION" AND ANSI AIOS.

I. Por t-I: Style flow; color dune; matte finish; size 24 inch x 24 inch. 2. POR T-2: STYLE FLOW; COLOR VINTAGE; MATTE FINISH; SIZE 12 INCH X 24 INCH.

4. GROUT GT-2 FOR POR T-2: TBD BY INTERIOR DESIGNER 5. THIN SET: LATEX PORTLAND CEMENT MORTAR PER ANGI 118.4. 6. WALL ADHESIVE: LATEX PORTLAND CEMENT MORTAR PER ANGI 118.4. 7. BACKING BOARD: USG "FIBEROCK" OR APPROVED EQUAL; THICKNESS TO MATCH ADJACENT

PER ANGI AIOB.II AND MANUFACTURER'S RECOMMENDATION. 8. GRACK ISOLATION MEMBRANE: USE TYPE AS RECOMMENDED BY THE TILE MANUFACTURER. 9. PATCHING AND LEVELING COMPOUNDS: REFER TO THIS DIVISION. IO. TRANSITION STRIP: REFER TO THE ROOM FINISH SCHEDULE FOR TYPE AND LOCATION:

GYPSUM WALLBOARD PANEL; FASTENERS AS RECOMMENDED BY MANUFACTURER; FINICH JOINTS

INSTALL AT CENTER LINE OF DOORS; COMPLY WITH ICC/AII7.1, 2009. II. GROUT SEALER: MANUFACTURER'S STANDARD SILICONE PRODUCT THAT DOES NOT CHANGE THE COLOR OR APPEARANCE OF THE GROUT. c. TILE MANUFACTURER: CAESAR d. MEASURE EACH ROOM AREA AND ESTABLISH A LAYOUT OF TILES THAT BALANCES BORDER

WIDTHS AT OPPOSITE EDGES OF THE ROOM, NO TILE SHALL BE LESS THAN 1/3 TILE WIDTH; e. PROVIDE EXPANSION JOINT AS INDICATED ON THE DRAWINGS. f. JOINT THICKNESS: 3/8 INCHES WIDTH.

0910. **PROVIDE SUSPENDED ACOUSTICAL CEILING SYSTEM** AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION. INCLUDES EXPOSED GRID SYSTEM, EDGE MOLDINGS, SUSPENSION HANGERS/WIRES, HOLD-DOWN CLIPS AND ALL OTHER ITEMS AND

INCIDENTALS REQUIRED FOR A COMPLETE SYSTEM. a. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS, ASTM C636, ASTM E580 (FOR SEISMIC RESTRAINT), CISCA'S "CEILING SYSTEMS HANDBOOK" AND CISCA'S "RECOMMENDATIONS FOR DIRECT-HUNG ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS" FOR SEISMIC ZONES 0-2.

b. MATERIALS: I. GRID: DOUBLE WEB MAIN AND CROSS RUNNERS WITH FACTORY FINISHED STEEL CAP; NOMINAL 1-1/2 INCHES DEEP; STRUCTURAL CLASSIFICATION IN ACCORDANCE WITH ASTM C635

2. MANUFACTURER: ARMSTRONG "PRELUDE" OR EQUAL 3. HANGER WIRE: SOFT TEMPERED; CLASS I ZINC COATING; SIZED SO THAT STRESS AT THREE TIMES THE HANGER DESIGN LOAD, PER ASTM C641, TABLE I, DIRECT HUNG, WILL BE LESS THAN THE YIELD STRESS OF THE WIRE. MINIMUM 0.106 INCH DIAMETER (12 GAUGE). 4. ACOUSTIC TILE: TEGULAR EDGE, MEDIUM TEXTURE, 24 IN. x 48 IN. x 3/4 IN. THICK WITH CENTER

SCORE FOR 2x2 APPEARANCE., NRC 0.70, CAC 35, LIGHT REFLECTANCE COEFFICIENT 0.86; CLASS A ASTM E84, COMPLYING WITH ASTM E1264. 4.1 WHERE PANELS ARE TRIMMED TO FIT GRID AT PERIMETER WALLS, ALL TRIM CUTS SHALL PROVIDE BEVELED TEGULAR EDGE TO MAINTAIN UNIFORM APPEARANCE.

5. MANUFACTURER: ARMSTRONG "CIRRUS" - SECOND LOOK (CENTER-SCORED FOR 2x2 APPEARANCE), ITEM NO. 513, MEDIUM TEXTURE, 24x48 BEVELED TEGULAR LAY-IN OR EQUAL. 6. HOLD-DOWN CLIP: PROVIDE AT CEILING SYSTEM IN ENTRY VESTIBULES (WHERE LAY-IN CELING IS SCHEDULED), WITHIN FIVE FEET OF EXTERIOR DOORS AND AT ALL SLOPED OR VERTICAL

 TOUCH-UP PAINT: SUPPLIED BY THE MANUFACTURER OF THE GRID SYSTEM AND PANELS. WITH EXCEPTION OF HANGER WIRES, THE ENTIRE SYSTEM SHALL BE FROM ONE SOURCE, FROM A SINGLE MANUFACTURER. 2. MEASURE EACH CEILING AREA AND ESTABLISH A LAYOUT OF ACOUSTICAL PANELS THAT BALANCES

BORDER WIDTHS AT OPPOSITE EDGES OF THE CEILING. AVOID THE USE OF LESS THAN HALF WIDTH

PANELS AT BORDERS. 3. PROVIDE QUANTITY OF HANGER WIRE REQUIRED BY OBC SECTION 808, THE CEILING MANUFACTURER, AND THE ELECTRICAL CONTRACTOR FOR LIGHT FIXTURES.

4. THE USE OF POP RIVETS AT WALL MOLDING IS PROHIBITED. CONTRACTOR TO FURNISH ONE FULL BOX OF ACOUSTICAL PANELS FOR OWNERS "ATTIC" STOCK. PROVIDE WOOD PANEL SUSPENDED CEILING SYSTEM AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES EXPOSED GRID SYSTEM, WALL ANGLE MOLDINGS, MAIN RUNNERS, CROSS TEES, SUSPENSION HANGERS/WIRES, FASTENERS, AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE SYSTEM.

a. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS, ASTM 6636, ASTM E580 (FOR SEISMIC RESTRAINT), CISCA'S "CEILING SYSTEMS HANDBOOK" AND CISCA'S "RECOMMENDATIONS FOR DIRECT-HUNG ACOUSTICAL TILE AND LAY-IN 0916. CARPET PANEL CEILINGS" FOR SEISMIC ZONES 0-2. b. MATERIALS:

I. CURVED SUSPENSION SYSTEM: CURVED "U" PROFILE PRIMARY ANGLE; II-BAR SECTIONS OF COMMERCIAL CRADE EXTRUDED ALUMINUM WITH EXPOSED SURFACES CHEMICALLY CLEANSED; H-BARS SHALL BE SUSPENDED FROM PRIMARY ANGLE WITH HANGERS AND PLUG-IN CLIPS; ALL STEEL PARTS SHALL BE CHEMICALLY CLEANGED HOT DIPPED GALVANIZED; NOMINAL 1-1/2 INCHES DEEP; STRUCTURAL CLASSIFICATION IN ACCORDANCE WITH ASTM C635.

2. CURVED TEE BAR. 3. WALL ANCHOR. 4. MANUFACTURER: ARMSTRONG SUSPENSION SYSTEM "WPC-I" WOODWORKS CURVED ACCESS OR

5. HANGER WIRE: SOFT TEMPERED; GLASS I ZING COATING; SIZED SO THAT STRESS AT THREE TIMES THE HANGER DESIGN LOAD, PER ASTM C635, TABLE I, DIRECT HUNG, WILL BE LESS THAN THE YIELD STRESS OF THE WIRE. MINIMUM .0106 INCH DIAMETER (12 GAUGE).

6. WOOD PANELS: UN-PERFORATED, SMOOTH SURFACE TEXTURE, DURAFLAKE FR, CLASS A RATED FIRE-RETARDANT PARTICLE-BOARD. SURFACE FINISH: GRADE A, VENEER SPECIES, - VENEER CUT, VENEER MATCH, AND VENEER STAIN AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE. SQUARE CUT EDGE. CLASS A ASTM E84, COMPLYING WITH ASTM

7. JOINT GASKETS: JOINTS ARE GASKETED WITH A 6mm GASKET. 8. MANUFACTURER: ARMSTRONG WOODWORKS WOOD VENEER CEILING PANELS, TYPE WPG-1 OR c. ACCESSORIES:

2. FURNISH EDGE BANDING FOR FIELD MODIFIED WOOD VENEER PANELS. d. WITH EXCEPTION OF HANGER WIRES, THE ENTIRE SYSTEM SHALL BE FROM ONE SOURCE, FROM A e. INSTALL SUSPENSION SYSTEM AND PANELS IN COMPLIANCE WITH ASTM C636, OBC SECTION 808,

- AND IN ACCORDANCE WITH THE MANUFACTURER'S SHOP DRAWINGS AND PRINTED INSTALLATION 0912. PROVIDE FACTORY FINISHED HARDWOOD FLOORING WHERE INDICATED ON THE DRAWINGS, INCLUDES PREPARING THE SUBSTRATE TO ACCEPT MATERIALS, EDGE STRIPS, TRANSITION STRIPS, TRIMS,

MOISTURE BARRIER, FASTENERS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A **COMPLETE INSTALLATION** a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND

SPECIFICATIONS, b. MATERIAL FIVE INCHES IN WIDTH.

I. FURNISH CUTOUTS FOR RECESSED LIGHT FIXTURES

2. FASTENER: AS RECOMMENDED BY THE PLANK FLOORING MANUFACTURER. 3. MOISTURE BARRIER: TYPE AS RECOMMENDED BY THE PLANK FLOORING MANUFACTURER;

4. PATCHING AND LEVELING COMPOUNDS: REFER TO THIS DIVISION. 5. TRANSITION STRIP: REFER TO THE ROOM FINISH SCHEDULE FOR TYPE AND LOCATION. INSTALL AT CENTER LINE OF DOORS; COMPLY WITH ICC/AII7.1, 2009. . HARDWOOD MANUFACTURER: SHAW

d. MEASURE EACH ROOM AREA AND ESTABLISH A PLANK LAYOUT THAT BALANCES BORDER WIDTH'S AT OPPOSITE EDGES OF THE ROOM. NO PLANK SHALL BE LESS THAN THREE (3) IN, IN WIDTH: e. UNLESS OTHERWISE SPECIFIED BY THE PLANK FLOORING MANUFACTURER, BEGINNING A MINIMUM OF SEVEN DAYS PRIOR TO INSTALLATION, MAINTAIN AN AMBIENT TEMPERATURE BETWEEN 65 AND 18 DEGREES F AND RELATIVE HUMIDITY BETWEEN 40 PERCENT AND 50 PERCENT. MAINTAIN SPECIFIED FOR THE DURATION OF THE PROJECT.

F. UNLESS OTHERWISE SPECIFIED BY THE PLANK FLOORING MANUFACTURER. THE MAXIMUM ALLOWABLE MOISTURE RATE IS THREE (3) Ibs. PER 1000 SQUARE FEET IN A TWENTY-FOUR HOUR q. EXPANSION SPACE AT WALL: PER PLANK FLOORING MANUFACTURER'S RECOMMENDATION: PROVIDE RESILIENT ITEMS AS INDICATED ON THE DRAWINGS. WORK INCLUDES PREPARING

SUBSTRATE, ADHESIVES AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE a. FIRE-TEST-RESPONSE CHARACTERISTICS: PER ASTM E648; CRITICAL RADIANT FLUX CLASS I, NOT LESS THAN 0.45 Wsq. cm.

INCHES THICK; COVED; COILS IN MANUFACTURER'S STANDARD LENGTH; FIELD-FORMED CORNERS. I. BASE: 4 IN. HIGH AND 6 IN. HIGH WALL BASE, COVED AND STRAIGHT TYPES, WHERE INDICATED ON THE DRAWINGS.

b. COMPLY WITH ASTM F1861; TYPE TP (RUBBER THERMOPLASTIC); GROUP I (HOMOGENEOUS); 0.125

2. TRANSITION: COMPLY WITH ICC/ANSI AIIT.I; TYPE TP; REFER TO THE DRAWINGS FOR LOCATION; INSTALL AT CENTER LINE OF DOORS. 3. ADHESIVE: AS RECOMMENDED BY THE MANUFACTURER; LIMIT VOC TO NOT MORE THAN 50 G/L. c. MANUFACTURER: JOHNSONITE, ROPPE, OR EQUAL.

d. COLOR AND STYLE: AS SELECTED BY OWNER OR OWNER'S REPRESENTATIVE FROM

MANUFACTURER'S STANDARDS. e. PREPARE SUBSTRATE IN ACCORDANCE WITH BASE MANUFACTURERS PRINTED INSTRUCTIONS TO ACHIEVE A SMOOTH, LEVEL SURFACE. WORK INCLUDES PREPARING WALLS, ADHESIVES AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE INSTALLATION.

INDUSTRY STANDARDS. INSTALL ALL REQUIRED ACCESSORIES FOLLOWING MANUFACTURER'S ALL PRODUCTS SHALL BE FROM THE SAME SOURCE, FROM A SINGLE MANUFACTURER. PROTECT BASE TO PREVENT SOILING AND DAMAGE AFTER INSTALLATION UNTIL SUBSTANTIAL

f. INSTALL RESILIENT BASE IN ACCORDANCE WITH MANUFACTURER PRINTED INSTRUCTIONS AND

PROVIDE NON-SLIP TYPE VINYL COMPOSITION TILE (VCT) FLOORING AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES TESTING AND PREPARING NEW AND EXISTING CONCRETE FLOORS FOR ACCEPTANCE OF MATERIALS; TRANSITIONS, ADHESIVES AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE

NOT INDICATED WHERE DISSIMILAR SIZE 12 INCH X 12 INCH; REFER TO THE ROOM FINISH SCHEDULE FOR BLENDING REQUIREMENTS. 2. Primer: Type as recommended by the tile manufacturer.

a. INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND

SPECIFICATIONS, ASTM F710 AND REGI-IP NO. 2. FURNISH TRANSITION WHERE INDICATED AND IF

4. ADHESIVE: NON-SOLVENT, WATER BASED, WATER RESISTANT AS RECOMMENDED BY THE TILE MANUFACTURER, LOW YOC. 5. POLISH: AS RECOMMENDED BY THE TILE MANUFACTURER. c. TILE MANUFACTURER: ARMSTRONG, MANNINGTON OR EQUAL,

REPRESENTATIVE e. TRANSITION: REFER TO THIS SECTION. F. MEASURE EACH ROOM AREA AND ESTABLISH A LAYOUT OF TILES THAT BALANCES BORDER WIDTHS AT OPPOSITE EDGES OF THE ROOM. NO TILE SHALL BE LESS THAN 6 INCHES WIDTH:

q. CONFORM TO RECI-TM-6 FOR JOINT TIGHTNESS AND CORNER INTERSECTIONS.

d. GOLOR, STYLE, AND BLENDING REQUIREMENTS AS SELECTED BY OWNER OR OWNER'S

3. PATCHING AND LEVELING COMPOUNDS: REFER TO THIS DIVISION.

0915. PROVIDE NON-SLIP RESILIENT FLOORING AS INDICATED ON THE DRAWINGS. INCLUDES PREPARING SUBSTRATE TO ACCEPT MATERIALS, TRANSITIONS, ADHESIVES AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE INSTALLATION. COMPLY WITH ASTM FITOO CLASS III, TYPE B AND ANSI AI264.2

a. FIRE TEST RESPONSE CHARACTERISTICS: PER NFPA IOI, CLASS I; CRITICAL RADIANT FLUX CLASSIFICATION NOT LESS THAN 0.45 W/sq. cm. AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER ASTM E648 BY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO THE AHJ; SMOKE DENSITY LESS THAN 450 WHEN TESTED IN ACCORDANCE WITH ASTM E662.

b. MINIMUM DYNAMIC COEFFICIENT OF FRICTION (DCOF) OF 0.42 WHEN MEASURED AND TESTED IN ACCORDANCE WITH ANSI BIOI.3 AND ASTM F2913. c. MINIMUM STATIC COEFFICIENT OF FRICTION (SCOF) OF 0.60 WHEN MEASURED AND TESTED IN

d. Material I. LUXURY VINYL PLANK (LVT)

CRACKS, JOINTS, ETC.

Aliti Standards

a) BACKING: ASTM F1303; TYPE I, MINIMUM BINDER CONTENT OF 90 PERCENT; WEAR LAYER THICKNESS GRADE I; BACKING CLASS B, NON-FOAMED PLASTIC.

b) WEAR LAYER THICKNESS: MINIMUM 0.20 INCHES c) OVERALL THICKNESS: MINIMUM O.125 INCHES

ACCORDANCE WITH ANSI BIOI.I AND ASTM D2047.

d) FINISH: UV-CURED POLYURETHANE e) WIDTH: MANUFACTURER'S STANDARD

F) COLOR/STYLE AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S STANDARD. PRIMERS AND ADHESIVE: NON-SOLVENT BASED; VOC CONTENT OF NOT MORE THAN 50 G/L WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24); WATER RESISTANT; MILDEM RESISTANT; NON-STAINING; AS RECOMMENDED BY THE RESILIENT FLOORING MANUFACTURER; COMPLY WITH FLAMMABILITY REQUIREMENTS FOR INSTALLED RESILIENT. 3. LEVELING AND PATCHING COMPOUNDS: REFERENCE SPECIFIC REQUIREMENTS IN THIS DIVISION.

e. MANUFACTURER: ARMSTRONG, NATURAL CREATIONS, ARBORART DIAMOND IO; OR APPROVED

. WARRANTY: MINIMUM TEN YEAR WEAR. q. THE INSTALLING CONTRACTOR IS TO HAVE NO LESS THAN TEN YEARS OF DOCUMENTED EXPERIENCE WITH THE TYPE OF SYSTEM SPECIFIED AND SIMILAR IN SIZE AND SCOPE TO THIS

h. CLEAN AND INSPECT SUBSTRATE SURFACES BEFORE INSTALLING ANY RESILIENT FLOORING. COMPLY WITH ASTM F710 SPECIFICATIONS WHERE REQUIRED. 2. PREPARE SUBSTRATE AS NECESSARY TO ACHIEVE SMOOTH, LEVEL SURFACE WITHOUT HOLES,

3. INSTALL RESILIENT FLOORING ACCORDING TO THE MANUFACTURER'S PRINTED INSTALLATION 4. CLEAN INSTALLED FLOORING TO CONFORM TO MANUFACTURER'S REQUIREMENTS.

5. PROTECT FLOORING FROM DAMAGE UNTIL SUBSTANTIAL COMPLETION.

 a. PROVIDE CARPET SHEETS, CARPET TILES, CARPET "WALK-OFF" TILES, EDGE STRIPS, ACCESSORIES, ADHESIVES, TAPES, ETC, AT LOCATIONS INDICATED ON THE DRAWINGS.

I. CARPET MUST CONFORM TO THE REQUIREMENTS OF OBC CHAPTERS IO AND II, AND ICC/ANSI

2. CARPET IN CORRIDORS, VERTICAL EXITS AND PASSAGEWAYS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E648 AND ASTM E662 TESTING REQUIREMENTS. b. ALL CARPET MUST PASS THE DOC FF-I "PILL TEST."

I. FURNISH A COPY OF ALL TESTING DATA FOR ANY CARPET TO THE AUTHORITY HAVING JURISDICTION CODE OFFICIAL. c. COMPLY WITH THE APPLICABLE PROVISIONS AND RECOMMENDATIONS OF THE FOLLOWING

THE CARPET AND RUG INSTITUTE (CRI) "THE CARPET SPECIFIERS' HANDBOOK." 2. CRI "CRI 104 COMMERCIAL CARPET INSTALLATION STANDARDS." MANUFACTURER: SHAW CONTRACT GROUP, LEES COMMERCIAL, J & J INDUSTRIES, MANNINGTON MILLS. MILLIKEN GROUP, PATCRAFT, MOHAWK CARPET, TRETFORD, INTERFACE, OR EQUAL.

I. COLOR AND STYLE: SELECTED BY OWNER OR OWNER'S REPRESENTATIVE. 2. FIBER CONTENT: NYLON 66. 3. PILE CHARACTERISTICS: NO OVER-TUFTING.

4. DYE PROCESS: SOLUTION-DYE OR INJECTION-DYE. e. CARPET MANUFACTURER'S WARRANTY: WARRANTY PERIOD TO BE TEN (IO) YEARS. F. COORDINATE INSTALLATION OF CARPET SO AS NOT TO DELAY THE OCCUPANCY OF THE SITE OR INTERFERE WITH THE COMPLETION OF THE WORK

VERIFY AND DOCUMENT RECOMMENDED LIMITS FOR MOISTURE CONTENT AND ALKALINITY OF CONCRETE SUBSTRATES; FURNISH REPORT(S) TO OWNER. MOISTURE CONTENT: VERIFY MOISTURE CONTENT USING STANDARD CALCIUM CHLORIDE CRYSTAL TEST OR A I SQUARE YARD CLEAR PLASTIC TEST. PERFORM TESTING AT A FREQUENCY AS RECOMMENDED BY THE MANUFACTURER.

2. ALKALINITY TEST: VERIFY ALKALINITY OF CONCRETE SUBSTRATES BY DRILLING A 3/8 INCH

INSTRUCTIONS AND SPECIFIED INDUSTRY STANDARDS. APPLY ADHESIVES IN ACCORDANCE WITH

PROTECT CARPETING AGAINST OF EVERY KIND AS DAMAGED CARPETING SHALL BE REJECTED.

I. PLASTIC AND POLYETHYLENE SHEET PROTECTIVE COVERINGS SHALL NOT BE PERMITTED.

DIAMETER HOLE APPROXIMATELY 1/4 INCH DEEP, REMOVE ALL RESIDUE, FILL WITH DISTILLED

WATER, ALLOW WATER TO STAND FOR 3 MINUTES AND TEST WITH A CALIBRATED ELECTRONIC METER OR Ph PAPER. PERFORM TESTING AT A FREQUENCY OF NOT LESS THAN ONCE EVERY 1,000 SQUARE FEET. h. INSTALL CARPET MATERIALS AND ACCESSORIES TO COMPLY WITH THE MANUFACTURER'S PRINTED

USE NON-STAINING COVER MATERIAL, WITH TAPED JOINTS, FOR PROTECTION.

ADHESIVE MANUFACTURER'S PRINTED DIRECTIONS. CLEAN, AND REMOVE ADHESIVES, STAINS AND SOIL SPOTS IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS AND RECOMMENDATIONS.

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TIDI 426 EAST MAIN STREET LANCASTER, OHIO 43130 (740) 654-4048 phone: facsimile: (740) 654-3009

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STEPHEN

M. LUCHTENBERG

8546

GENERAL NOTES DIVISION 8 THROUGH DIVISION

AND AS SPECIFIED I. PREPARE SURFACES, COAT WITH PRIME, INTERMEDIATE AND FINISH COATINGS FOR INTERIOR AND EXTERIOR SCHEDULED SURFACES AND ITEMS.

2. FINISH PAINT ALL SHOP PRIMED STRUCTURAL STEEL, METAL FABRICATIONS AND STEEL DOORS AND

3. TOUCH UP ALL PAINTED AND COATED ITEMS AND MATERIALS WHERE MARRED BY CONSTRUCTION AFTER INITIAL PAINTING HAS BEEN PERFORMED. 4. PROVIDE PRIMERS AND UNDERCOAT PAINTS PRODUCED BY THE SAME MANUFACTURER AS THE FINISH

4.I. ALL PRIMERS, UNDERCOAT AND FINISH COATS TO BE LEAD FREE AND HAVE THE LOWEST POSSIBLE VOC.

4.2. ALL FINISH COATS SHALL BE MOLD AND MILDEW RESISTANT. 5. PERFORM NO PAINTING OR STAINING WORK UNTIL ALL CONSTRUCTION ACTIVITIES INVOLVING OR CAUSING MOISTURE, DUST OR AIRBORNE DEBRIS IN ADJACENT AREAS HAVE BEEN COMPLETED, AND

THE MOISTURE, DUST AND DEBRIS INVOLVED HAS DISSIPATED. PROVIDE HEAT AND VENTILATION AS REQUIRED TO MAINTAIN INTERIOR TEMPERATURE BETWEEN 55. AND 90 DEGREES F., AND TO MAINTAIN INTERIOR HUMIDITY LEVEL BETWEEN 20% AND 40%. AFTER PAINTING, CONTRACTOR IS TO MAINTAIN THIS INTERIOR ENVIRONMENT FOR THE DURATION OF THE

6.I. MAINTAIN MANUFACTURER'S SPECIFIED MINIMUM VENTILATION RATE REQ'D FOR INTERIOR APPLICATIONS OF THE SPECIFIC COATING BEING APPLIED

 PERFORM SURFACE PREPARATION AND CLEANING PROCEDURES IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN DIRECTIONS AND SPECIFICATIONS. 8. PERFORM ALL APPLICATION WORK WITH MINIMUM 15 FOOTCANDLE LEVEL OF LIGHT AT SURFACE BEING

9. PROTECT FINISHED SURFACES FROM DAMAGE UNTIL FINAL ACCEPTANCE OF THE BUILDING BY THE

IO. AT EXTERIOR FIBER-CEMENT WOOD SIDING AND TRIMS: USE ONLY MANUFACTURER'S SPECIFIED PRODUCTS FOR END-CUT SEALING AND TOUGH-UP. II. MIX, PREPARE AND APPLY PAINT AND FINISH TREATMENT IN STRICT ACCORDANCE WITH

MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS. 12. PAINTS, STAINS AND FINISHES BY SHERWIN WILLIAMS COMPANY, OR EQUAL PRODUCTS BY PRATT AND LAMBERT, INC., BENJAMIN MOORE & CO., DEAN AND BARRY, INC., GLIDDEN, OR A MANUFACTURER AS SELECTED BY THE OWNER.

EXTERIOR PAINTING (SHERWIN WILLIAMS PRODUCTS LISTED) PAINTED MASONRY, CONCRETE AND STUCCO

I.I. BLOCK FILL COAT: SW LOXON BLOCK SURFACER I.2. FINISH COATS: SW LOXON XP OPAQUE WATERPROOFING SYSTEM - 2 FINISH COATS OVER BLOCK FILL

2. PAINTED FERROUS METAL - FULL GLOSS ALKYD ENAMEL - 2 FINISH COATS AND I PRIME COAT OVER SHOP PRIME. 2.I. PRIME COAT: SW KEM KROMIK METAL PRIMER B50N2 / WI

2.2. FINISH COATS: SW INDUSTRIAL ENAMEL B54 SERIES 3. PAINTED ZINC-COATED METAL WITH HIGH GLOSS ALKYD ENAMEL - 2 FINISH COATS OVER PRIME

3.I. PRIM COAT: SW GALVITE B50 W3 3.2. FINISH COATS: SW MEALASTIC II ENAMEL B53 SERIES.

c. INTERIOR PAINTING (SHERWIN WILLIAMS PRODUCTS LISTED) . SURFACES NOT TO BE PAINTED:

ITEMS NOT SCHEDULED TO BE PAINTED.

I.2. PREFINISHED FLOORS, WALLS AND CEILING COVERINGS I.3. PREFINISHED METALS

I.4. GYP BOARD CEILINGS ABOVE SUSPENDED ACOUSTICAL CEILINGS UNLESS OTHERWISE NOTED. 1.5. ITEMS WITH FACTORY APPLIED FINISH COATING, EXCEPT AS SPECIFICALLY OTHERWISE NOTED. 2. PAINTED GYPSUM WALLBOARD WITH FLAT LATEX FINISH: 2 FINISH COATS OVER PRIME COAT.

2.I. PRIME COAT: SW PRO-MAR 200 LATEX WALL PRIMER 2.2. FINISH COATS: SW PRO-MAR 200 LATEX FLAT. 2.2.I. PROVIDE ONLY ONE FINISH COAT OVER PRIMER IN CLOSETS

3. PAINTED GYPSUM WALLBOARD WITH LOW GLOSS FINISH: 2 FINISH COATS OVER PRIME COAT WITH TOTAL DRY FILM THICKNESS NOT LESS THEN 2.5 MILS. 3.I. TYPICALLY IN ALL RESTROOMS, VESTIBULES AND KITCHEN; ELSEWHERE AS NOTED IN ROOM FINISH

SCHEDULE. PRIOR TO APPLICATION, VERIFY WITH OWNER FOR POTENTIAL ADDITIONAL AREAS. 3.2. PRIME COAT: SW PRO-MAR 200 LATEX WALL PRIMER 3.3. FINISH COATS: SW PR-MAR 200 ALKYD LOW GLOSS ENAMEL

4. PAINTED FERROUS METAL WITH SEMI-GLOSS ENAMEL FINISH: 2 FINISH COATS OVER PRIMER WITH TOTAL DRY FILM THICKNESS NOT LESS THAN 3.4 MILS. 4.I. PRIME COAT: SW KERN KROMIK METAL PRIMER B50N2 / WI

4.2. FINISH COATS: SW PRO-MAR 200 ALKYD SEMI-GLOSS 5. PAINTED ZING-COATED METAL: 2 FINISH COATS OVER PRIME COAT 5.1. PRIME COAT: SW GALVITE B50W3

5.2. FINISH COATS: SW PRO-MAR 200 ALKYD SEMI-GLOSS. 6. PAINTED WOOD WITH SEMI GLOSS ENAMEL FINISH: 2 FINISH COATS OVER UNDERCOAT WITH TOTAL DRY FILM THICKNESS NOT LESS THAN 3.4 MILLS.

6.I. UNDERCOAT: SW PRO-MAR 200 ALKYD ENAMEL UNDERCOATER 6.2. FINISH COATS: SW PRO-MAR 200 ALKYD SEMI-GLOSS 7. STAINED AND VARNISHED WOOD: NOT LESS THAN 2.0 MILS DRY FILM THICKNESS OF FINISH COATING

COATS OVER BLOCK FILL

7.I. ONE COAT SW WOOD STAIN MINWAX INTERIOR STAIN 7.2. TWO COATS SW MINWAX SELF SEALING SATIN POLYURETHENE. 7.2.I. BETWEEN POLYURETHENE COATS, LIGHTLY SAND SMOOTH WITH 150 TO 180 GRIT SANDPAPER.

8. PAINTED MASONRY, CONCRETE, CEMENT PLASTER AND STUCCO 8.1. BLOCK FILL COAT: SW LOXON BLOCK SURFACER 8.2. FINISH COATS: SW LOXON XP OPAQUE WATERPROOFING SYSTEM - 2 FINISH

0917. TERRAZZO RESTORATION

 a. FURNISH ALL LABOR, TOOLS, GRINDERS, MATERIALS, ETG AS REQUIRED TO REPAIR ALL IMPERFECTIONS IN THE EXISTING GEMENTITIOUS TERRAZZO FLOORS AND TO RESTORE THE FLOORS TO THEIR ORIGINAL SHINY, HIGH GLOSS LUSTER.

THIS PROCESS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING STEPS: BEFORE STARTING REPAIRS, THE CONTRACTOR SHALL CLEAN THE FLOORS WITH A PH-NEUTRAL TILE AND STONE CLEANER SOLUTION AS REQUIRED TO DISLODGE AND THOROUGHLY REMOVE ALL EXISTING DIRT AND OLD SEALANT OR WAX COATING THAT MAY BE PRESENT.

2. AFTER FLOOR IS DRY, CONTRACTOR SHALL THEN IDENTIFY ALL CRACKS, CHIP HOLES, DIMPLES, PIN HOLES, STAINS AND OTHER AREAS OF THE EXISTING FLOORS THAT REQUIRE REPAIRS AND DISCUSS WITH THE ARCHITECT AND OWNER REPAIR OPTIONS.

3. UPON APPROVAL OF THE CONTRACTOR'S PROPOSED REPAIRS, CONTRACTOR SHALL THEN UTILIZE A 400 LB PANETARY GRINDER AND METAL BOND DIAMONDS TO FLATTEN THE FLOOR AND FURTHER EXPOSE ADDITIONAL MINUTE AREAS REQUIRING REPAIR.

4. IF NECESSARY FOR BONDING OF REPAIR MATERIAL TO EXISTING, CONTRACTOR SHALL, UTILIZING A CHISEL AND HAMMER, INCREASE THE DEPTH, WIDTH OR DIAMETER OF DAMAGED AREAS OF EXISTING FLOOR. GLEAN OUT ALL DUST AND LOOSE AGGREGATE FROM DAMAGED AREA.

5. WITH ARCHITECT AND OWNER'S ASSISTANCE, CONTRACTOR TO DETERMINE THE COLORS AND SIZES OF TERRAZZO AND MARBLE CHIPS AS WELL AS ANY PIGMENTATION OF THE WHITE PORTLAND CEMENT BINDER TO BE USED IN PATCH REPAIRS. CONTRACTOR TO MIX UP SAMPLE SLURRIES AND ALLOW TO CURE FOR COMPARISON TO EXISTING FLOORS FOR ARCHITECT'S APPROVAL PRIOR TO APPLICATION.

5.I. SLURRY SHOULD BE APPROXIMATELY TWO PARTS AGGREGATE TO ONE PART CEMENT, RESULTING IN A THICK CLUMPY MIX (NOT RUNNY). 6. At repair sites, scoop slurry mix into the damaged area, compact it down into the hole OR GRACK TO GET A STRONG BOND AND REMOVE ANY AIR POCKETS, LEAVING A PORTION OF THE

WET MIX ABOVE THE SURFACE OF THE FLOOR TO BE GROUND DOWN AFTER CURING. 1. After cementitious repairs have cured for 12 hours (if a white UV stable, tinted epoxy

RESIN IS REQUIRED FOR MINUTE REPAIRS, AD IERE TO EPOXY RESIN MFR'S RECOMMENDATION FOR cure time). 7.I. USING A VARIABLE SPEED ANGLE GRINDER OR POLISHER WITH DIAMOND POLISHING PADS, START TO LEVEL THE PATCH DOWN

USE A 30-40 CRIT DIAMOND POLISHING PAD IF PATCH HAS AGGREGATE IN THE MIX. USE A 30-80 CRIT DIAMOND POLISHING PAD IF PATCH HAS NO AGGREGATE

7.1.3. GRIND REPAIR PATCHES AS REQUIRED TO BRING PATCH DOWN FLUSH WITH ADJACENT GLOSELY INSPECT ALL REPAIR PATCHES FOR SMALL HOLES IN THE PATCH. FILL ALL SUCH

HOLES AND REPEAT THE PROCESS DESCRIBED IN 6.1 AND 6.2 ABOVE. AFTER ALL DAMAGED AREAS OF THE EXISTING FLOOR HAVE BEEN REPAIRED TO THE SATISFACTION OF THE ARCHITECT AND OWNER, THE CONTRACTOR SHALL POLISH A 5'X5' AREA OF THE NEWLY RESTORED TERRAZZO AT THE EAST END OF THE SECOND FLOOR, UTILIZING HIGHER AND HIGHER GRIT, STOPPING BETWEEN GRIT CHANGES, AND CLEANING THE FLOOR WITH WATER, ALLOWING IT TO DRY

FOR OWNER'S REVIEW. 8.I. REPEAT THIS PROCESS UNTIL THE OWNER IS SATISFIED WITH THE ACHIEVED LEVEL OF SHINE. 8,2. GONTRACTOR TO USE THIS 5'X5' AREA AS THE STANDARD OF POLISHING FOR THE REMAINDER

OF THE TERRAZZO FLOORING. FINAL RESTORED FLOORS TO FALL WITHIN OSHA STANDARD OF 5 COEFFICIENT OF SLIP DIFFERENTIAL, WET OR DRY.

RE-CRYSTALLIZATION, CRYSTALLIZATION OR VITRIFICATION PROCESSES ARE NOT ACCEPTABLE. d. Contractor shall also infill existing walk-off mat slab depression in room aloo with EPOXY TERRAZZO, COLOR MIX AS SELECTED BY THE ARCHITECT AND OWNER. e. ALL TERRAZZO WORK IS TO BE DONE BY A CONTRACTOR WHOSE PROPOSED LEAD PERSON FOR THIS

PROJECT HAS AT LEAST TEN YEARS OF EXPERIENCE SPECIALIZING IN TERRAZZO INSTALLATION AND . SUBMIT A LIST OF TEN TERRAZZO REPAIR PROJECTS COMPLETED IN THE PAST THREE YEARS (BY THE PROPOSED SUBCONTRACTOR'S PERSONNEL) THAT ARE SIMILAR IN SCOPE, WITH OWNER CONTACT INFO INCLUDED WITH EACH PROJECT.

1000. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THE GENERAL NOTES.

b. TOILET ACCESSORIES

c. TOILET COMPARTMENT PARTITIONS

d. FIRE EXTINGUISHER CABINETS AND FIRE EXTINGUISHERS e. METAL LOCKERS

F. STORAGE SHELVING q. FLAG POLE

IOOI. PROVIDE ARCHITECTURAL INTERIOR AND EXTERIOR SIGNAGE OF TYPE, SIZE, AND DESIGN AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION. SIGNAGE SHALL MEET REQUIREMENTS OF THE OBC, ICC/ANSI AII7.I, AND THE OWNER.

1002. Interior Signage:

REFERENCE DRAWING SHEET HOLOO FOR SPECIFIC ACCESSIBILITY REQUIREMENTS. b. TACTILE AND BRAILLE CHARACTERS, RAISED MINIMUM I/32 INCHES. CHARACTERS SHALL BE ACCOMPANIED BY GRADE-2 BRAILLE

TYPE STYLES: LETTERS SHALL BE UPPERCASE. LETTERS AND NUMBERS SHALL BE HELVETIC MEDIUM, HELVETICAL MEDIUM CONDENSED AND HELVETICA REGULAR. I. LETTERS AND NUMBERS HEIGHT: 5/8 INCHES MINIMUM, 2 INCH MAXIMUM.

d. SYMBOLS (PICTOGRAMS): 4" HIGH WITH EQUIVALENT WRITTEN DESCRIPTION PLACED DIRECTLY BELOW SYMBOL, OUTSIDE OF SYMBOL'S BACKGROUND FIELD. BORDER DIMENSIONS OF SYMBOL BACKGROUND SHALL BE MINIMUM 6 INCHES HIGH.

e. FINISH AND CONTRAST: CHARACTERS AND BACKGROUND SHALL BE EGGSHELL, MATTE OR OTHER NON-GLARE FINISH WITH ADEQUATE CONTRAST WITH BACKGROUND.

I. CAST ACRYLIC SHEET: MIL-PRF-8184F; TYPE II, CLASS I; WATER WHITE NON-GLARE OPTICALLY CLEAR. MATT FINISH WATER WHITE CLEAR ACRYLIC WILL NOT BE ACCEPTABLE. 2. POLYCARBONATE: MIL-P-46144C; TYPE I, CLASS I.

3. ANCHORAGE: CONCEALED; AS RECOMMENDED BY THE MANUFACTURER. 4. COLOR(S): AS SELECTED BY THE OWNER.

h. PROVIDE SIGNS AND SIGNAGE TYPES AS SCHEDULED ON THE DOOR AND HARDWARE SCHEDULE. 1. BANKING EQUIPMENT SIGNS WILL BE PROVIDED BY THE OWNER'S BES, INSTALLED BY THIS CONTRACTOR, VERIFY WITH OWNER. FURNISH ALL INTERIOR SIGNAGE FROM THE SAME MANUFACTURER.

MANUFACTURER: AMERICAN GRAPHICS, INC., ASI SIGN SYSTEMS, INC., GRIMCO, INC., MOHAWK SIGN SYSTEMS, SIGNATURE SIGNS, INC. OR EQUAL. INSTALL EACH TYPE OF SIGN IN ACCORDANCE MANUFACTURER'S WRITTEN INSTALLATION

INSTRUCTIONS. I. MOUNT SIGNS IN PROPER ALIGNMENT, LEVEL AND PLUMB. SIGNS SHALL BE INSTALLED WHERE BEST SUITED TO PROVIDE A CONSISTENT APPEARANCE THROUGHOUT THE PROJECT. 2. PAINT AND TOUCH-UP ANY EXPOSED FASTENERS AND CONNECTING HARDWARE TO MATCH COLOR AND FINISH OF SURROUNDING FINISH.

PROVIDE SHOP DRAWINGS FOR ARCHITECT'S APPROVAL PRIOR TO FABRICATION n. MOUNT SIGNAGE TO DOOR ON WALL ADJACENT TO THE LATCH SIDE OF THE DOOR, OR AT CENTERLINE OF DOOR. VERIFY ALL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.

HOLD TOP OF HIGHEST TACTILE CHARACTER AT 60" ABOVE FINISH FLOOR.

FURNISH PARKING SIGNS, EXTERIOR BANKING TRAFFIG SIGNS, AND TRAFFIG PEDESTRIAN DIRECTIONAL SIGNS WHERE REQUIRED, INDIGATED AND SPECIFIED. SIGNS OF TYPE, SIZE AND DESIGN AS REQUIRED BY THE OBC, THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT), OSHA, MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CODE OF FEDERAL REGULATIONS (CFR), INTERNATIONAL ORGANIZATION OF STANDARDIZATION (ISO), ICC/ANSI AII7.I. AND THE OWNER.

SEE EXTERIOR ELEVATIONS FOR DESIGN AND LOCATIONS OF BUILDING MOUNTED SIGNS SEE SITE LAYOUT PLAN FOR LOCATIONS OF PEDESTRIAN GROUND MOUNTED SIGNS. ADA PARKING SIGNAGE

BUILDING AND GROUND MOUNTED PEDESTRIAN SIGNAGE

 SEE SHEET ADA FOR DESIGN AND INSTALLATION OF ALL EXTERIOR ADA PARKING SIGNS. INSTALL WHERE SHOWN ON THE SITE LAYOUT PLAN. 2. TYPE STYLES: CHARACTERS SHALL BE UPPERCASE, WITH FONT STYLE AS REQUIRED BY

ICC/ANSI AIIT.I, ODOT AND THE SIGN MANUFACTURER. 3. CHARACTER HEIGHT: AS REQUIRED BY ICC/ANSI AHT.I, ODOT AND THE SIGN

4. SYMBOLS (PICTOGRAMS): AS REQUIRED BY ICC/ANSI AIIT., ODOT AND THE SIGN

5. FINISH AND CONTRAST: WHITE BAKED ENAMEL SURFACE WITH SCREEN PRINT COPY, SYMBOLS AND BORDER. COLORS AS SELECTED. d. EXTERIOR SIGN COMPONENTS

SIGN MATERIAL: 0.08 INCHES THICK, ALUMINUM SHEET WITH STRENGTH AND DURABILITY C 5005-HIS. CORNERS SHALL HAVE I INCH RADIUS. 2. U-CHANNEL POSTS AT GROUND MOUNTED SIGNS: SIGN MANUFACTURER'S STANDARD, GALVANIZED STEEL, & FOOT LONG AT PARKING SIGNS, LENGTH AS INDIGATED FOR ALL OTHER CROUND MOUNTED SIGNS. SECURE SIGN TO POST USING STANDARD MOUNTING

HARDWARE OF GALVANIZED STEEL CARRIAGE BOLTS. SET POSTS 18" INTO 12" DIA x 36" DEEP CONCRETE PIER. HOLD TOP OF PIER FLUSH WITH GRADE OR ASPHALT.

e. BANKING TRAFFIG SIGNS AND MOUNTING COMPONENTS: FURNISHED BY OWNER'S BES AND AS SELECTED BY THE OWNER.

I. INSTALLATION SHALL BE BY THIS CONTRACTOR. 2. MANUFACTURER: BES STANDARD. FURNISH ALL EXTERIOR SIGNAGE FROM THE SAME MANUFACTURER.

MANUFACTURER: BEST SICN SYSTEMS, INC., BARCO PRODUCTS, BRIMAR INDUSTRIES, INC. (SAFETY SIGNS) OR EQUAL. INSTALL EACH TYPE OF SIGN IN ACCORDANCE MANUFACTURER'S WRITTEN INSTALLATION

INSTRUCTIONS I. MOUNT SIGNS IN PROPER ALIGNMENT, LEVEL AND PLUMB. SIGNS SHALL BE INSTALLED

WHERE BEST SUITED TO PROVIDE A CONSISTENT APPEARANCE THROUGHOUT THE PROJECT. 2. PAINT AND TOUCH-UP ANY EXPOSED FASTENERS AND CONNECTING HARDWARE TO MATCH

COLOR AND FINISH OF SURROUNDING FINISH. 1004. PROVIDE TOILET ACCESSORIES AS INDICATED ON THE DRAWINGS AND IN COMPLIANCE WITH OBC

CHAPTER II, AND ICC/ANSI AII7.I-2009. INCLUDES SURFACE PREPARATION, CONTINUOUS AND CONCEALED WOOD BLOCKING, FASTENERS AND ALL OTHER ITEMS AND INCIDENTALS AS

a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS AND ICC/ANSI AII7.I-2009.

b. MANUFACTURER: BOBRICK, BRADLEY, TRUEBRO, OR APPROVED EQUAL. c. MATERIAL (ALL MODEL NUMBERS ARE BOBRICK) TOILET PAPER DISPENSER: RECESSED: TWO ROLL CAPACITY, STAINLESS STEEL: B-6477.

2. TOILET PAPER DISPENSER: SURFACE MOUNTED; TWO ROLL CAPACITY, 304 STAINLESS STEEL, B-4288

3. PAPER TOWEL/WASTE RECEPTACLE: RECESSED; "C" FOLD TOWEL; 12 GAL WASTE CONTAINER: B-3942. OPERATED, ELECTRONIC SENSOR ACTIVATED, COMBO 8" DIA PAPER TOWEL ROLL

DISPENSER AND TRASH RECEPTACLE; B-3979. 5. ADA ELECTRIC HAND DRYER: SURFACE MOUNT AT 48" AFF, 304 STAINLESS STEEL, SENSOR

6. LIQUID SOAP DISPENSER: WALL MOUNT AT 52" AFF TO TOP OF UNIT, 304 STAINLESS STEEL BATTERY OPERATED, SENSOR ACTIVATED; B-2012. 7. HAND SANITIZER DISPENSER: WALL MOUNT AT 52" AFF TO TOP OF UNIT, 304 STAINLESS

STEEL, BATTERY OPERATED, SENSOR ACTIVATED; B-2012. 8. MIRRORS IN PRIVATE BATHS: 8.I. SURFACE MOUNT. WELDED STAINLESS STEEL FRAME; 24 INCH X 42 INCH; B-290 2442.

9. MIRRORS IN PUBLIC BATHS: 9.1. I/4" POLISHED GLASS, ONE PIECE WITH CONCEALED HANGERS. FULL LENGTH OF COUNTER, HEIGHT AS INDICATED ON INTERIOR ELEVATIONS. FIELD VERIFY LENGTH. IO. SANITARY NAPKIN TRASH RECEPTACLE: RECESSED WITHIN TOILET STALL PARTITION

(ACCESSIBLE FROM TOILET STALL ON BOTH SIDES), 304 STAINLESS STEEL; B-354; II. SEAT COVER DISPENSER: SURFACE MOUNT WITH TOP AT 45" AFF, 304 STAINLESS STEEL;

12. GRAB BAR(S): I-I/2 INCH DIAMETER; SNAP FLANGE, STAINLESS STEEL, BOBRICK 6800 SERIES. SIZE AND MOUNTING AS ILLUSTRATED ON SHEET ADA. 13. BABY CHANGING STATIONS: WALL MOUNTED, FOLD DOWN, POLYPROPYLENE, PNEUMATIC CYLINDER OPERATION, CONCEALED HINGE STRUCTURE, BUILT-IN LINER DISPENSER, MEETS CRITERIA IN 2009 ICC AII7.I, ANGI 2535, ASTM 622, ASTM F 2285-04; KOALA BEAR B-200

SERIES, COLOR AS SELECTED. INSTALL WITH TOP OF HORIZONTAL CHANGING SURFACE AT

14. ADA INSULATING PIPE WRAP PROTECTION FOR ALL WATER SUPPLY AND DRAIN PIPES THAT ARE EXPOSED BELOW ALL HAND SINKS: TRUEBRO 82525.

PLASTIC PLUGS.

14.1. FASTENERS: AS RECOMMENDED BY THE MANUFACTURER. d. INSTALL EACH TYPE OF ACCESSORY IN ACCORDANCE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. SECURELY ANCHOR ACCESSORIES TO WALL CONSTRUCTION. I. PROVIDE WOOD BLOCKING IN DRYWALL PARTITIONS: MINIMUM 2x8 HORIZONTAL BETWEEN STUDS AT GRAB BAR; ALL OTHERS 2x6.

2. MOUNT ACCESSORIES IN PROPER ALIGNMENT, STRAIGHT, LEVEL AND PLUMB. 3. PROVIDE CONCEALED FASTENING WHEREVER POSSIBLE. 4. FASTENERS THAT ARE NOT ACCEPTABLE: SHEET METAL SCREWS AND LEAD, WOOD, OR

1005. PROVIDE BAKED ENAMEL METAL TOILET PARTITIONS AS SHOWN AND SPECIFIED. WORK INCLUDES: a. FACTORY FINISHED FLOOR MOUNTED HEAD-RAL BRACED TOILET PARTITIONS. b. HARDWARE, ACCESSORIES, FASTENERS, AND ANCHORING DEVICES.

c. CONFORM TO FOLLOWING REFERENCE STANDARDS FOR ACCESSIBILITY (HANDICAPPED)

I. INTERNATIONAL CODE COUNCIL (ICC)/AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI): a) ICC/ANSI AIIT.I ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

d. PROVIDE PRODUCTS AND ACCESSORIES FROM SINGLE SOURCE FOR THE ENTIRE PROJECT. e. PROVIDE SETTING DRAMINGS, TEMPLATES, AND INSTRUCTIONS FOR INSTALLATION OF ANCHORAGE

I. FURNISH ANCHORING DEVICES. F. MANUFACTURERS:

DEVICES AND OTHER WORK.

I. ASI GROUP, INTEGRATED BUILDING PRODUCTS - 2. COLUMBIA PARTITIONS SYSTEMS

3. GENERAL PARTITIONS MFG. CORP. 4. GLOBAL STEEL PRODUCTS CORP.

a. WALL AND DOOR PANELS 1. DOUBLE WALL CONSTRUCTED, I-INCH THICK WITH TWO SHEETS OF NOT LESS THAN 20-GAUGE, 22-GAUGE FOR DOOR PANEL, GALVANIZED AND BONDERIZED STEEL FORMED AND WELDED TOGETHER BEFORE ATTACHING DIE DRAWN MOLDING ON ALL FOUR SIDES, FURNISH MITERED

REINFORGEMENTS FUSED TO CORNERS FOR ADDED STRUCTURAL STRENGTH, FURNISH

SOUND-DEADENING HONEY-COMB CORE FILLER. a) STANDARD STALL DOORS: MINIMUM 24-INCHES WIDE.

b) ACCESSIBILITY (HANDICAPPED) STALL DOORS: MINIMUM 32-INCHES WIDE (CLEAR OPENING). h. PILASTERS - I. DOUBLE WALL CONSTRUCTED, I-I/4 INCHES THICK WITH TWO SHEETS OF NOT LESS THAN

20-GAUGE GALVANIZED AND BONDERIZED STEEL FORMED AND WELDED TOGETHER BEFORE ATTACHING DIE DRAWN MOLDING ALL FOUR SIDES, FURNISH MITERED REINFORGEMENTS FUSED TO CORNERS FOR ADDED STRUCTURAL STRENGTH, FURNISH SOUN-DEADENING HONEY-COMB

2. PILASTER TRIM: ASTM A240 AISI TYPE 302/304 STAINLESS STEEL ONE-PIECE, 20 GAUGE, MINIMUM 3 INCHES HIGH, FINISHED TO MATCH HARDWARE. —-I. HEADRAIL BRACING: ASTM B22I EXTRUDED ALUMINUM, ANTI-GRIP DESIGN, SATIN ANODIZED FINISH: : STIRRUP BRACKETS: MANUFACTURER'S STANDARD DESIGN FOR ATTACHING PANELS TO

— Substrate and Pilasters. Heavy Duty. Satin Finish Stainless Steel Ghromium-Plated or --- HEAT-TREATED EXTRUDED ALUMINUM WITH ANODIZED FINISH. k. HARDWARE: MANUFACTURER'S STANDARD DESIGN, HEAVY DUTY OPERATING HARDWARE, SATIN FINISH STAINLESS STEEL OR POLISHED CHROMIUM-PLATED NON-FERROUS CAST ALLOY.

PROVIDE HARDWARE FOR EACH COMPARTMENT IN THE PARTITION SYSTEM. 2. HINGES: HEAVY DUTY APPLIED OR CUTOUT INSET TYPE, ADJUSTABLE TO HOLD DOOR OPEN AT ANY ANGLE UP TO 90 DEGREES. PROVIDE GRAVITY TYPE, SPRING-ACTION GAM TYPE, OR CONCEALED TORSION ROD TYPE, TO SUIT MANUFACTURER'S STANDARDS.

3. LATCH AND KEEPER: MANUFACTURER'S STANDARD SURFACE MOUNTED SLIDE BAR LATCH UNIT, DESIGNED FOR HANDICAPPED ACCESSIBILITY, WITH COMBINATION DOOR STOP AND

4. DOOR PULLS: MANUFACTURER'S STANDARD UNIT AT SMING-OUT DOORS. PROVIDE PULLS ON BOTH FACES OF HANDICAP COMPARTMENT DOORS. 5. ON INSWINGING STALL DOORS, MOUNT COMBINATION COAT HOOK / RUBBER-TIPPED BUMPER

6. ON OUTSMINGING STALL DOORS, MOUNT RUBBER TIPPED BUMPER TO OUTSIDE FACE OF DOOR AT 48" AFF, AND MOUNT STANDARD COAT HOOK TO INSIDE FACE OF DOOR AT 45" AFF. 1. PROVIDE HINGE BRACKETS AND DOOR LATCHES THROUGH BOLTED THROUGH PANELS AND PILASTERS.

8. PROVIDE DOOR HARDWARE FACTORY MOUNTED. I. ANCHORAGES AND FASTENERS: MANUFACTURER'S STANDARD EXPOSED FASTENERS OF STAINLESS STEEL, CHROMIUM-PLATED STEEL OR BRASS FINISH TO MATCH HARDWARE. PROVIDE — SHOULDER SCREWS AND SEX NUTS FOR THROUGH BOLTS, USE THEFT-RESISTANT TYPE HEADS AND NUTS FOR EXPOSED SCREWS. FOR CONCEALED ANCHORS, USE HOT-DIP GALVANIZED

a) PROVIDE EXPANSION ANCHORS, TOGGLE BOLTS, HOLLOW WALL ANCHORS OR OTHER APPROVED TYPE ANCHORS OR FASTENERS. WOOD, LEAD, AND PLASTIC PLUCS ARE NOT

| FINISH: PANEL, DOOR AND PILASTER FINISH SHALL CONSIST OF FACTORY APPLIED PRIME COAT AND FINISHED COLOR COAT OF HIGH SOLID POLYESTER ENAMEL BAKED AT 350 DECREES F. TO ENSURE A SMOOTH PROTECTIVE FINISH.

I. COLOR SELECTED BY OWNER FROM STANDARD COLOR CHARTS.

GYPSUM BOARD.

- I. ANCHORS AND FASTENERS FOR MOUNTING TO BUILDING SUBSTRATE.

- I. INSTALL PARTITIONS RIGID, STRAIGHT, PLUMB AND LEVEL, IN PANEL LAYOUT INDIGATED. PROVIDE CLEARANCES OF NOT MORE THAN 1/2 INCH BETWEEN PILASTERS AND PANELS. AND NOT MORE THAN I INCH BETWEEN PANEL AND BUILDING SUBSTRATE, PROVIDE UNIFORM GLEARANCE AT VERTICAL EDGES OF DOORS FROM TOP TO BOTTOM NOT EXCEEDING 3/16 INCH, SECURE PANELS TO BUILDING SUBSTRATE, AND TO PILASTERS WITH RECOMMENDED

2. FLOOR MOUNTED HEADRAIL BRACED PARTITIONS: SECURE PILASTERS, LEVEL AND PLUMB WITH HEADRAIL ASSEMBLY IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS: 3. FURNISH, SECURELY ATTACH, 2x (NOM.) WOOD BLOCKING TO STRUCTURE, CONCEALED BEHIND

1006. PROVIDE FIRE EXTINGUISHERS, SURFACE MOUNTED, RECESSED CABINET MOUNTED AND SEMI-RECESSED CABINET MOUNTED WHERE INDICATED AND SPECIFIED. FURNISH FIRE RESISTANCE RATED CABINETS WHERE REQUIRED AND SPECIFIED. ALL FIRE EXTINGUISHERS SHALL BE MULTI-PURPOSE (MP) DRY-CHEMICAL TYPE IN STEEL CYLINDER AND SHALL HAVE A U.L. RATING. ALL FIRE EXTINGUISHERS SHALL BE FULLY LOADED, TESTED, AND "TAGGED" READY FOR USE. FURNISH THE FOLLOWING FIRE EXTINGUISHERS FOR THE NOTED LOCATIONS:

a. U. L. 2A-10B:C FIRE EXTINGUISHER, IN RECESSED AND SEMI-RECESSED CABINET. CABINET: LARSEN'S ARCHITECTURAL SERIES MODEL No. FS 2409 R3. b. IO LB ABC FIRE EXTINGUISHER, WALL MOUNTED AT LOCATIONS AS INDICATED. MOUNT AT HEIGHT IN

ACCORDANCE WITH ICC/ANSI AIIT.I REQUIREMENTS. c. FURNISH FIRE EXTINGUISHER CYLINDERS, SURFACE MOUNTING HARDWARE AND CABINETS FROM THE SAME MANUFACTURER. SURFACE MOUNTING HARDWARE TO BE MANUFACTURER'S STANDARD

d. FURNISH ALL CODE ASSOCIATED SIGNAGE AFFIXED TO WALL ABOVE FIRE EXTINGUISHER. e. MANUFACTURER: LARSEN MANUFACTURING, J. L. INDUSTRIES, OR EQUAL. F. FIRE EXTINGUISHERS SHALL CONFORM TO THE REQUIREMENTS OF OBC SECTION 906. q. INSTALL FIRE EXTINGUISHERS AND FIRE EXTINGUISHER CABINETS IN ACCORDANCE

MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS. SECURELY ANCHOR TO WALL CONSTRUCTION. BOARD, FOR ALL SURFACE MOUNTED FIRE EXTINGUISHERS UNLESS NOTED OTHERWISE. 2. SECURELY ANCHOR BRACKETS AND CABINETS TO SUBSTRATE CONSTRUCTION WITH TOGGLE

BOLTS OR EXPANSION ANCHORS. 3. SHEET METAL SCREWS AND LEAD, WOOD, OR PLASTIC PLUGS ARE NOT ACCEPTABLE. 4. INSTALL SIGNAGE AS REQUIRED BY THE BUILDING DEPARTMENT APPROVAL AUTHORITY AND

THE MANUFACTURER'S PRINTED INSTRUCTIONS AND SPECIFICATIONS 4. PAPER TOWEL/WASTE RECEPTACLE: SURFACE MOUNTED, 304 STAINLESS STEEL, BATTERY 1007. PROVIDE FACTORY FORMED, BAKED ENAMEL FINISHED METAL LOCKERS AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, INCLUDES CONTINUOUS/CONCEALED WOOD BLOCKING, FASTENERS AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED.

> a. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS AND ICC/ANSI AIIT.I-2009. I. PROVIDE ONE (I) ACCESSIBLE LOCKER FOR EVERY TWENTY-FIVE (25) LOCKERS BUT A MINIMUM

OF ONE LOCKER. b. MATERIAL I. FABRIGATED FROM COMMERCIAL COLD-ROLLED SHEET STEEL IN ACCORDANCE WITH ASTM A 1202. EXAMINE SUBSTRATES, STRUCTURE AND INSTALLATION CONDITIONS. DO NOT PROCEED WITH ANY

HOOB TYPE B 2. TOP, BOTTOM, DIVIDERS, BACK AND SIDES: MINIMUM 0.024 INCHES THICKNESS. 3. FRAMES: CHANNEL FORMED: MINIMUM 0.060 INCHES THICKNESS; FACTORY WELDED AT CORNERS; TOP AND BOTTOM MAIN FRAMES WELDED INTO VERTICAL MAIN FRAMES; CONTINUOUS INTEGRAL DOOR STRIKE FULL HEIGHT ON VERTICAL MAIN FRAMES. 4. SHELF: PROVIDE ONE (I) PER LOCKER WITH GARMENT HOOK.

5. ACCESSIBLE LOCKABLE SHELVING: ONE (1) AT 15 INCHES A.F.F. AND ONE (1) 48 INCHES A.F.F. 6. DOOR ASSEMBLY: ONE PIECE; FORMED INTO CHANNEL SHAPE WITH DOUBLE BEND AT VERTICAL SIDES AND RIGHT ANGLE BEND AT TOP AND BOTTOM, VENTED. ONE PIECE SPRING STEEL LATCH. RECESSED POCKET WITH 14 GA LIFTING TRIGGER AND RIVETED ALUMINUM NUMBER PLATE WITH \$" HIGH NUMBERS. 7. DOOR HINGE: 2" HIGH, 5 KNUCKLE, FULL LOOP, TIGHT PIN STYLE WELDED TO FRAME AND

DOUBLE RIVETED TO THE INSIDE OF THE DOOR FLANCE, TWO HINGES PER DOOR: ATTACHED TO

FRAME WITH A MINIMUM OF TWO CONCEALED, TAMPER PROOF RIVETS. 8. DOOR LATCH: FINGER LIFT IN ACCORDANCE WITH ICC AII7.I-2009 AND DESIGNED TO USE COMBINATION LOCK: 9. LEGS: MINIMUM 6 INCHES LONG; MINIMUM 0.075 INCHES THICKNESS; WELDED TO FRAME. 10. SLOPPED TOP: CONTINUOUS, WITH END CLOSURES, MINIMUM 0.048 INCHES THICKNESS.

II. FINISH: BAKED ENAMEL; GOLOR AS SELECTED BY THE ARCHITECT FROM MANUFACTURER'S

12. BOLTED ASSEMBLY. c. SEE INTERIOR ELEVATIONS FOR QUANTITY, SIZE AND LAYOUT OF LOCKERS. PROVIDE CORNER CLOSURE PANELS AS SHOWN. d. COLOR(S) AS SELECTED FROM MFR'S STANDARD RANGE.

STANDARD.

e. MANUFACTURER: REPUBLIC OR EQUAL.

1007. PROVIDE STORAGE SHELVING AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS REQUIRED FOR A COMPLETE INSTALLATION. INCLUDES CONCEALED AND CONTINUOUS SOLID WOOD BLOCKING, STANDARDS, BRACKETS, SHELVES AND ALL OTHER ITEMS AND

INCIDENTALS AS REQUIRED a. REFERENCE DRAWING SHEET HIGIOO IN THE CONSTRUCTION DRAWINGS FOR SPECIFIC ICC/ANSI AHT.I REQUIREMENTS.

b. MATERIAL: I. STANDARD: DOUBLE SLOTTED; HEAVY DUTY; KNAPE & VOGT 82.

2. BRACKET: DOUBLE SLOTTED; HEAVY DUTY; KV 182; REFERENCE THE DRAWINGS FOR THE REQUIRED DEPTH AND CLIPS FOR SECURING SHELVES TO BRACKETS. 3. SHELVING: HIGH PRESSURE PLASTIC LAMINATE OR MELAMINE OVER MINIMUM 3/4 INCH THICK PARTICLE BOARD (PER ANSI A208.1). COLOR AS SELECTED BY THE ARCHITECT FROM

MANUFACTURER'S STANDARD RANGE. 4. CONCEALED MOOD BLOCKING: MINIMUM 2x6, AT EACH STANDARD, SPACING AS NOTED ON 5. STANDARD AND BRACKET COLOR AS SELECTED FROM MFR'S STANDARD RANGE.

c. MANUFACTURER: KNAPE & VOGT. d. INSTALL COMPONENTS IN STRICT COMPLIANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS, DETAILS AND SPECIFICATIONS. I. USE ONLY MANUFACTURER'S SPECIFIED FASTENERS FOR SECURING COMPONENTS TO

SUBSTRATE PROVIDED. 2. STANDARD AND SHELVING QUANTITIES AS SHOWN ON INTERIOR ELEVATIONS. 1008. FURNISH VINYL-COATED, STEEL-ROD, STEEL-WIRE, VENTILATED, STORAGE SHELVING SYSTEMS AS

INDICATED.

END-CAPS, ETC. FOR A COMPLETE ASSEMBLY.

a. ALL SHELVING UNITS SHALL BE FULLY ADJUSTABLE b. FURNISH 12 INCH AND 16 INCH DEEP SHELVES WHERE INDICATED c. FURNISH WALL HEADER AND VERTICAL STANDARDS FOR ADJUSTABLE SHELVING. d. FURNISH ANCHORING HARDWARE, FASTENING HARDWARE, HANGING RODS, CLIPS, SHELF SUPPORTS,

I. COMPONENTS SHALL PROVIDE FOR SHELVING INSTALLATION TO CONCEALED 2x (NOM.) WOOD BLOCKING CONCEALED BEHIND GYPSUM WALLBOARD. e. INSTALL SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED ASSEMBLY INSTRUCTIONS.

a. INSTALLATION . INSTALL ALL SHELVING, COMPONENTS AND ACCESSORIES IN ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS AND DETAILS 2. SHELVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL DIMENSIONS

F. MANUFACTURER: CLOSETMAID BY CLAIRSON INTERNATIONAL OR EQUAL.

- 3. SUPPORT BRACKETS WILL BE REQUIRED FOR 36 INCH SHELVING SPANS. a) SPACE SUPPORT BRACKETS AT 24 INCHES FOR PANTRY CLOSET TYPE SHELVING

AND SHALL FIELD VERIFY ALL CONDITIONS PRIOR TO FIELD FABRICATION OF ALL PRODUCTS.

1009. PROVIDE ALIMINUM FLAGPOLE AS SHOWN ON THE DRAWINGS WITH 41/61 AMERICAN FLAG, AS NOTED 1207. BACKSPLASHES AT COUNTERTOPS AND WORK COUNTERS TO BE INSTALLED SEPARATELY. HEREIN, WITH COMPONENTS AS REQUIRED FOR A COMPLETE INSTALLATION. a. OBTAIN FLACPOLE AS A COMPLETE UNIT, INCLUDING FITTINGS, ACCESSORIES, BASES, AND - ANCHORAGE DEVICES. b. SUBMIT SHOP DRAMINGS IN ACCORDANCE WITH SECTION 0141 OF THESE CENERAL NOTES:

c. MATERIAL: I. 25' ALUMINUM FLAGPOLE: CONE-TAPERED FLAGPOLE PER MANUFACTURER'S RATE OF TAPER, FABRIGATED FROM SEAMLESS, EXTRUDED TUBING COMPLYING WITH ASTM B221, ALLOY 60630T6, HAVING A TENSILE STRENGTH NOT LESS THAN 30,000 psi WITH A YIELD POINT OF - 25,000 psi. Heat treat, after fabrication, to comply with astm B541, temper to. a) ASSEMBLY CONSTRUCTION: EXTERNAL SINGLE REVOLVING - ROPE HALYARD - GROUND

----SET FOUNDATION. 2. FOUNDATION TUBE: GALVANIZED CORRUGATED STEEL FOUNDATION TUBE, O.0635 INCHES - 16 GAUGE MINIMUM WALL THICKNESS, SIZED TO SUIT FLACPOLE AND INSTALLATION. PROVIDE WITH 3/16 INCH STEEL BOTTOM PLATE AND STEEL CENTERING WEDGES, FURNISH WITH 3/16 INCH SUPPORT PLATE, 3/4 INCH DIAMETER BY 18 INCHES LONG STEEL GROUND LIGHTNING SPIKE. FOUNDATION TUBE WILL CONSIST OF ALL WELDED CONSTRUCTION.

3. FINIAL: SIZED TO MATCH POLE BUTT DIAMETER 4. SINGLE REVOLVING TRUCK ASSEMBLY: CAST ALUMINUM NON-FOULING REVOLVING WITH SINGLE PULLEY AND PIN, STAINLESS STEEL ROLLER BEARINGS, AND THREADED ALUMINUM SPINDLE FOR ATTACHMENT TO POLE.

6. HALYARD FLAG SNAPS: PROVIDE TWO (2) STAINLESS STEEL SMIVEL SNAP HOOKS WITH NEOPRENE COVERS. 7. GLEAT(S): PROVIDE ONE (I) HEAVY-DUTY CAST ALUMINUM GLEAT (9 INCHES) WITH 1/4 INCH-20NG FLAT HEAD STAINLESS STEEL SELF-TAPPING SCREWS.

5. HALYARD: PROVIDE ONE (1) CONTINUOUS 5/16 INCH (#10) POLYPROPYLENE HALYARD:

8. FLASH COLLAR: PROVIDE SPUN ALUMINUM COLLAR TO MATCH FLAGPOLE. 9. CONCRETE: COMPLY WITH REQUIREMENTS OF DIVISION 03 SECTION CAST-IN-PLACE ----CONCRETE

d. FINISH: - I. ANODIZED FINISHES: PROVIDE CLASS I, CLEAR ANODIZED (AA), FINISH COMPLYING WITH AA M32-622-A41. e. EXCAVATION: COMPLY WITH REQUIREMENTS OF DIVISION 31 EARTHWORK.

a. FLAGPOLE INSTALLATION: I. INSTALL FLAGPOLE WHERE SHOWN AND ACCORDING TO SHOP DRAWINGS AND MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. 2. FOUNDATION TUBE INSTALLATION: INSTALL FLAGPOLE IN FOUNDATION TUBE, SEATED ON BOTTOM PLATE BETWEEN STEEL CENTERING WEDGES. PLUMB FLAGPOLE AND INSTALL

FOUNDATION TUBE TO WITHIN 2 INCHES OF THE TOP OF TUBE, REMOVE HARDWOOD WEDGES AND SEAL TOP OF FOUNDATION TUBE WITH A 2 INCH LAYER OF ELASTOMERIC SEALANT OR CEMENT AND COVER WITH FLASHING COLLAR. h. FLAG TO BE HEAVY DUTY, TWO PLY, TRICOT KNIT, SUN AND CHEMICAL DETERIORATION-RESISTING

POLYESTER; STRIPES WITH TWO ROWS OF STITCHING PER SEAM, FLY END WITH FOUR ROWS OF LOCK STICHING, HEAVY DUTY NO-SHRINK WHITE POLYESTER CANVAS HEADER (DOUBLE LOCK-STITCHED, HEAVY DUTY BRASS GROMMETS, EMBROIDERED SNOW-WHITE STARS. I. MFR - COLLING FLAGS OR APPROVED EQUAL.

HARDWOOD WEDGES TO SECURE FLAGPOLE IN PLACE, PLACE AND COMPACT SAND IN

DIVISION 11 - EQUIPMENT - SEE SHEET GN-10

FOUNDATION: COMPLY WITH REQUIREMENTS OF DIVISION 03 CONCRETE.

a. KITCHEN CASEWORK.

INSTRUCTIONS.

DIVISION 12 - FURNISHINGS I. FURNISH, SECURELY ATTACH, 2x WOOD BLOCKING TO STRUCTURE, CONCEALED BEHIND GYPSUM 1200. CONFORM TO LATEST EDITIONS OF THE FOLLOWING REFERENCE STANDARDS, WITH CURRENT REVISIONS. FOR THE MANUFACTURING, TESTING, AND INSTALLATION OF BANKING EQUIPMENT AND RESIDENTIAL TYPE

d. INTERNATIONAL CODE COUNCIL (ICC/ANSI AII7.I) "ACCESSIBLE AND USEABLE BUILDINGS AND

KITCHEN APPLIANCES: a. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) REQUIREMENTS. b. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) REQUIREMENTS.

c. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC) REQUIREMENTS.

FACILITIES"-2009 REQUIREMENTS. e. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) REQUIREMENTS. f. UNDERWRITERS' LABORATORIES, INC. (U.L.) REQUIREMENTS.

q. U. S. DEPARTMENT OF ENERGY (USDE - ENERGY STAR PROGRAM) REQUIREMENTS. h. U. S. PRODUCTS STANDARDS (USPS) REQUIREMENTS. 1201. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0112 OF THE GENERAL NOTES.

b. PLASTIC LAMINATE COUNTERTOPS. PORTION OF THE WORK UNDER THIS DIVISION UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN

a. INSTALLATION CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS AND RESPONSIBILITY FOR SATISFACTORY PERFORMANCE.

CASEWORK INSTALL ALL CASEWORK PLUMB, LEVEL, TRUE, AND STRAIGHT WITH NO DISTORTIONS. SHIM AS REQUIRED USING CONCEALED SHIMS. WHERE CASEWORK ABUTS OTHER FINISHED WORK, SCRIBE AND

INDICATED OR REQUIRED, AND IN FINISH TO MATCH CASEWORK FACE. ANCHOR CABINETS SECURELY IN PLACE WITH CONCEALED (WHEN DOORS AND DRAWERS ARE CLOSED) FASTENERS, ANCHORED INTO STRUCTURAL SUPPORT MEMBERS OF WALL CONSTRUCTION. COMPLY WITH MANUFACTURER'S INSTRUCTIONS FOR SUPPORT OF UNITS. COMPLETE HARDWARE INSTALLATION AND ADJUST DRAWERS AND DOORS FOR PROPER

CUT CASEWORK FOR ACCURATE FIT. INSTALL FILLER STRIPS, SCRIBE STRIPS AND MOULDINGS AS

PROTECT CABINETS FROM DAMAGE UNTIL FINAL ACCEPTANCE BY THE OWNER. 1204. CABINET HARDWARE SHALL COMPLY WITH ANSI A156.9. REQUIREMENTS. INSTALL OWNER SELECTED HARDWARE TO WALL AND BASE CABINETS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION PLASTIC LAMINATE CABINETS

1205. FURNISH AND INSTALL ALL CABINETS SURFACED WITH LOW PRESSURE (MELAMINE) LAMINATES AT CABINET BOX INTERIORS AND ON INTERIOR SURFACES OF DRAWERS; PROVIDE HIGH PRESSURE LAMINATES AT ALL EXPOSED SURFACES (INCLUDING BACKSIDE OF CABINET DOORS AND OPEN SHELVING CABINETS) IN COLORS

AS SELECTED. a. ALL CABINETS SHALL BE FACTORY ASSEMBLED AND FINISHED IN CONFORMANCE TO ANSI A 161.1 b. ALL CABINETS SHALL BEAR THE NKCA LABEL. LABELS SHALL REMAIN IN PLACE UNTIL FINAL ACCEPTANCE BY THE ARCHITECT AND OWNER.

c. CABINET SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF ALL DIMENSIONS: AND SHALL FIELD MEASURE ALL CONDITIONS PRIOR TO SHOP FABRICATION OF ALL FINAL PRODUCTS. d. FURNISH ALL FILLER STRIPS, ANCHORING LOCKS, HARDWARE, ETC. FOR A COMPLETE FINISHED SYSTEM. I. DOORS AND DRAWER FRONTS AND EDGES: FULL OVERLAY DESIGN, 3/4 INCHES THICK WITH HIGH

2. CASES: FRAMELESS DESIGN. 3/4 INCHES THICK WOOD CORE COVERED WITH LAMINATE. 3. DRAWER HARDWARE SHALL BE ALL STEEL, FULL EXTENSION WITH BALL BEARING ROLLERS. e. FURNISH ALL LOCKING HARDWARE AND FILE TYPE DRAWER HARDWARE WHERE CALLED FOR.

F. INSTALL ALL CABINETS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS AND DETAILS. I. USE CONTINUOUS ROWS OF CONCEALED 2x4 WOOD BLOCKING TO SUPPORT AND ANCHOR WALL CABINETS AND TO ANCHOR BASE CABINETS.

g. DRAWER AND DOOR PULLS, HANDLES AND KNOBS AS SELECTED BY THE ARCHITECT FROM MFR'S STANDARD RANGE. PROVIDE BROCHURE WITH SHOP DRAWINGS FOR SELECTION.

INTERNATIONAL, INC., UNITED DECORATIVE PLASTICS OR APPROVED EQUAL. ALL CABINET DRAWERS TO HAVE DOVETAIL JOINTS AND FULL EXTENSION, SOFT CLOSE DRAWER SLIDES WITH BALL BEARINGS AND POLYMER SOFT CUSHIONS FOR QUIET SLIDE OPERATION -KNAPE & VOGT 'FORCE MANAGEMENT' OR APPROVED EQUAL.

h. PLASTIC LAMINATE MANUFACTURERS; WILSONART INTERNATIONAL, FORMICA CORP, PANOLAM INDUSTRIES

PLASTIC LAMINATE COUNTERTOPS

1206. FURNISH NEW PLASTIC LAMINATE COUNTERTOPS TO BE ATTACHED TO TOPS OF BASE AND VANITY CABINETS, LEDGERS AND WALLS AS DETAILED, AND WORK COUNTERS BRACKETED TO WALLS WHERE

a. AT TELLER WORK STATIONS AND AT LOCATIONS WHERE COUNTER IS BRACKETED TO THE ADJACENT WALLS, COUNTERS ARE TO CONSIST OF PLAS LAMINATE ON TOP AND BOTTOM OF TWO CONTINUOUS LAYERS OF MDO PLYWOOD WITH STAINED WOOD EDGE TRIM AS CALLED FOR ON THE DETAILS.

b. CERTIFICATION: LAMINATES SHALL HAVE THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) "LD-3" CLASSIFICATION FOR HIGH PRESSURE DECORATIVE LAMINATES. C. MANUFACTURERS: WILSONART INTERNATIONAL, FORMICA CORP., PANOLAM INDUSTRIES INTERNATIONAL, INC., UNITED DECORATIVE PLASTICS OR EQUAL.

a. PLASTIC LAMINATE: NEMA LD 3.

CONCEALED BACKING SHEET TYPE BKL. 2. DECORATIVE SURFACES:

I) FLAT COMPONENTS: TYPE GP-HGL. b. PARTICLEBOARD: CPA A208.I, GRADE 2-M-2.

c. PLYWOOD: PS I, EXTERIOR TYPE, VENEER GRADE AC NOT LESS THAN 5-PLY CONSTRUCTION. d. ADHESIVES: FS A-A-1936 FOR PLASTIC LAMINATE. e. FASTENERS: USE STUDS, BOLTS, SPACERS, THREADED RODS WITH NUTS, OR SCREWS FOR SUITABLE FOR MATERIALS BEING JOINED WITH METAL SPLICE PLATES, CHANNELS OR OTHER

SUPPORTING SHAPES. SEAL BACKSPLASH / COUNTER AND BACKSPLASH / WALL JOINTS WITH SEALANT AS SPEC'D FOR EACH LOCATION. COLOR AS SELECTED.

BEFORE INSTALLING COUNTERTOPS VERIFY THAT WALL SURFACES HAVE BEEN FINISHED AS SPECIFIED AND THAT MECHANICAL AND ELECTRICAL SERVICE LOCATIONS ARE AS SPECIFIED. a. ATTACH COUNTERTOPS SECURELY TO BASE UNITS. SPLINE AND GLUE JOINTS IN COUNTERTOPS; PROVIDE CONCEALED MECHANICAL CLAMPING OF JOINT. USE WOOD OR SHEET METAL SCREWS, MINIMUM PENETRATION INTO TOP 5/8 INCH, SCREW SIZE No. 8 OR IO.

b. PROVIDE CUT-OUTS FOR PLUMBING FIXTURES AND APPLIANCES AS INDICATED. SMOOTH CUT

EDGES AND COAT EXPOSED WOOD EDGES WITH WATERPROOF COATING OR ADHESIVE. INSTALL PLUMBING FIXTURES, FAUCETS, AND APPLIANCES IN COUNTERTOPS WITH EPOXY COMPOUND TO FORM A WATERTIGHT SEAL UNDER SHELF RIM. USE MOUNTING HARDWARE SPECIFICALLY DESIGNED FOR PLASTIC LAMINATE COUNTERTOPS AS REQUIRED BY THE PLUMBING FIXTURE/FAUCET MANUFACTURER AND THE APPLIANCE MANUFACTURER.

d. PROVIDE 2" PLASTIC GROMMETS THROUGH WORK COUNTERS WHERE SHOWN ON PLANS

 e. APPLY HIGH PRESSURE PLAS LAM TO UNDERNEATH SURFACE OF WORK COUNTERS, INCLUDING AT KNEE SPACES ADJACENT TO BASE CABINETS. SAME COLOR AS TOP SURFACE OF COUNTER. e. PROTECT COUNTERTOPS FROM DAMAGE UNTIL FINAL ACCEPTANCE BY THE OWNER. 1209. ACCEPTABLE CASEWORK FABRICATORS: MILLTECH, CANAL WINCHESTER; CAMPBELL'S

FORUM ARCHITECTURAL MILLWORK, MILFORD CENTER, OH; OR APPROVED EQUAL

CABINETS AND COUNTERTOPS, LANCASTER;

END CAPS AT EXPOSED ENDS.

3.I. MACHINE WASHABLE OR DRYCLEANABLE

MISCELLANEOUS 1210. EXAM ROOM PRIVACY CURTAIN a. PROVIDE CEILING GRID MOUNTED CURTAIN TRACK WITH ONE WAY, HAND DRAWN, TRANSLUCENT, PRIVACY CURTAIN IN CONFIGURATIONS SHOWN ON REFLECTED CEILING PLANS. INCLUDE ALL HOOKS, SLIDES, CLIPS, CEILING BRACKETS AND COVERS, SLIDE CARRIERS, SPLICES, LUBRICATING MATERIAL AND ALL OTHER ACCESSORIES AS REQUIRED

FOR A COMPLETE INSTALLATION. b. TRACK . HEAVY DUTY ALUMINUM TRACK, PONDER COATED WHITE, 1/2" HIGH X 3/4" DEEP, REVERSIBLE. MOUNT TO SUSPENDED CEILING CRID.

OPERATION WITHOUT HESITATION AT SPLICES. PROVIDE CURVED TRACK PIECES AS REQ'D FOR CONFICURATIONS SHOWN ON

CONNECT ADJACENT TRACK PIECES WITH SPLICES THAT ALLOW SMOOTH CARRIER

PROVIDE 4685 SLIDES WITH ZING-PLATED S HOOKS FOR GROMMETED CURTAIN. THREE HOOKS PER FOOT OF TRACK. 2. FOREST GROUP KS-HD-4-WH, OR APPROVED EQUAL

I. 1' HIGH PRIVACY CURTAIN, WITH 22" TALL WHITE MESH AT TOP INCLUDED IN OVERALL 2. THO PIECE RUSTPROOF NICKEL PLATED BRASS GROMMETS AT 6" OC. 3. 100% POLYESTER 'SHADOW CUBE' TRANSLUCENT CURTAIN FABRIC WITH VISA FINISH

3.2. FLAME RETARDANT PER NEPA TOLAND MGVSS-302 STANDARDS 3.3. ANTI-MICROBIAL FINISH. 3.4. TRIPLE THICK 1.5" HEADER ADJACENT TO MESH. 3.5. SAFE-T-STITCHED HEMS AND SEAMS

3.6. PATTERN MATCHED SEAMS d. SUBMIT FABRIC SAMPLE KIT WITH SWATCHES OF ALL AVAILABLE STANDARD COLORS AND PATTERNS FOR SELECTION. e. MANUFACTURER: CURTAIN-TRACKS.COM OR APPROVED EQUAL

IMPACT RESISTANCE PER ASTM F-476-84

BASE TO 48" AFF.

WALL PROTECTION ITEMS a. CORNER CUARDS . SURFACE MOUNTED, SHOCK ABSORBING, EXTRUDED PETG CONTINUOUS RETAINER, MOUNTED

TO CORNER WITH SNAP ON, 2"x2"x3/6" OFFSET, I/4" RADIUS, ACROVYN CORNER CUARD COVER AND END CAP. COVER TO BE EXTRUDED, HIGH IMPACT ACROVYN 4000 WITH SHADOWCRAIN TEXTURE BACTERIAL AND FUNGAL RESISTANT PER ASTM 622-76AND 621-96

CHEMICAL AND STAIN RESISTANT PER ASTM D543 UL CLASS A/I FIRE RATED AND LABELED I.6. LIMITED LIFETIME WARRANTY 2. INSTALL AT LOCATIONS SHOWN ON DRAWINGS. GUARD TO EXTEND FROM TOP OF VINYL

2.I. PROVIDE 40 DEGREE AND 135 DEGREE CORNERS AS SHOWN. 2.2. INSTALL PER MFR'S INSTRUCTIONS. PROVIDE CONCEALED SOLID WOOD BLOCKING AT CORNER IF REQUIRED FOR RETAINER MOUNTING. VERIFY WITH MFR'S INSTALLATION 3. SUBMIT 12" SAMPLE WITH INSTALLED END CAP FOR REVIEW. SUBMIT COLOR CHART

SHOWING FULL RANGE OF STANDARD COLORS FOR ARCHITECT'S SELECTION. ELECTRONICALLY SUBMITTED COLOR CHART WILL NOT BE ACCEPTED. 4. MANUFACTURER AND PRODUCT:

4.I. CS ACROYN MODEL #SSM-20N OR APPROVED EQUAL. b. CHAIR RAIL / CRASH RAIL SURFACE MOUNTED, 5 1/2" TALL, SHOCK ABSORBING, STAINED WOOD RAIL WITH PROTECTIVE BUMPER MOUNTED TO WALL

INSTALL RAIL OVER CONTINUOUS RETAINER MOUNTED TO WALL PER MFR'S

CONCEALED HORIZ BLOCKING IF REQD. PROVIDE WOOD PLUGS TO HIDE MOUNTING SCREWS. RAILS TO BE CUT TO LENGTHS INDICATED ON INTERIOR ELEVATIONS. FIELD VERIFY

ALL DIMENSIONS. PROVIDE FACTORY FABRICATED RAIL ENDS. FACTORY APPLIED STAIN COLOR,

STAIN AND WOOD SPECIES AS SELECTED FROM MFR'S STANDARD RANGE. PROVIDE

INSTRUCTIONS AT ELEVATIONS INDICATED ON INTERIOR ELEVATIONS. PROVIDE CONT

2. MANUFACTURER AND PRODUCT 2.I. CS ACROVYN, MODEL #AW-CRVB OR APPROVED EQUAL.

SAMPLE KIT. ELECTRONIC SUBMITTAL IS NOT ACCEPTED.

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TIDI 426 EAST MAIN STREET LANCASTER, OHIO 43130 (740) 654-4048 phone: facsimile: (740) 654-3009

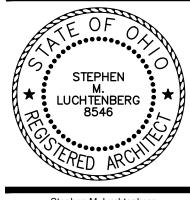
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THROUGH DIVISION 12

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written consent of the Architect COMMISSION

DRAWN BY: NJP, SML

Expiration Date: December 31, 2023 **GENERAL NOTES** DIVISION 10

- DRIVE THRU TELLER WINDOW AND TRANSACTION DRAWER IIOI. PROVIDE AND INSTALL BULLET-RESISTANT DRIVE THRU TELLER WINDOW AND TRANSACTION
- a. NOMINAL 3'x5', UL LISTED, HP LEVEL #I BULLET RESISTANT, I 3/4" GLAZING SET TILTED FOR OPTIMUM TELLER VIEWING IN STAINLESS STEEL FRAME.
- b. UL LEVEL 3, STAINLESS STEEL, EXTENDABLE IO"x20" TRANSACTION DRAWER INSTALLED ADJACENT TO PLASTIC LAMINATE COUNTER AS DETAILED. (COUNTER BY 6C)
- PUSH BUTTON ELECTRIC OPERATION WITH MANUAL OVERRIDE SEALED SO THAT OUTSIDE AIR NEVER ENTERS THE BLDG
- PROVIDE OPTIONAL HEATER WITH DRAWER. PROVIDE MFR'S STANDARD INTEGRAL AUDIO COMMUNICATION SYSTEM.
- d. INSTALL PER MFR'S INSTRUCTIONS.

DIVISION 13 - SPECIAL STRUCTURES

1300. NOT USED

e. MANUFACTURER AND PRODUCT e.a. HAMILTON SAFE (HILLIARD, OHIO), MODEL # 035D TELLER WINDOW, WITH #400 DD DEAL DRAWER, OR APPROVED EQUAL.

DIVISION 14 - PASSENGER ELEVATOR

- FURNISH AND INSTALL NEW 3500# MACHINE-ROOMLESS, HOLELESS, TWO STAGE, HO FPM: FOUR STOP, HYDRAULIC PASSENCER ELEVATOR WITH 4' DEEP PIT IN NEW MASONRY HOISTWAY SHAFT AS SHOWN ON THE DRAWINGS. THYSSENKRUPP ENDURA MRL TWINPOST ABOVE GROUND OR APPROVED EQUAL. b. WORK TO INCLUDE, BUT IS NOT LIMITED TO THE FOLLOWING:
- HOISTWAY CONSTRUCTION 2. HOISTWAY EQUIPMENT 3. PIT LADDER FROM LOWEST STOP TO BOTTOM OF PIT
- 4. HOISTWAY SUMP WITH PUMP CONNECTED TO THE BUILDING DRAINAGE SYSTEM AS INDICATED ON THE DRAWINGS 5. HOISTWAY ENTRANCES
- 6. POWER UNIT 7. CAR AND HOISTWAY DOORS
- 8. DOOR OPERATION
- 1. ELECTRONIC DOOR EDGE SENSOR
- IO. CAR ENCLOSURE II. CAR OPERATING PANEL
- 12. FLEVATOR FLOOR AND PLATFORM 13. ALL INTERIOR CAR FINISHES AND LIGHTING
- 14. ELECTRICAL COMPONENTS
- 15. CONTROL SYSTEMS AND INTERFACE WITH BUILDING DOOR ACCESS SYSTEM 16. SIGNALS AND OPERATING FIXTURES
- 18. MISCELLANEOUS ELEVATOR COMPONENTS PROVIDE SHOP DRAWINGS FOR REVIEW. INCLUDING:
- INSTALLATION DETAILS AND PRINTED MFR'S SPECS FOR:
- FI FVATOR CAR **CONTROL SYSTEM**
- I.3. HYDRAULIC POWER PACK
- I.4. VALVES 1.5. JACK ASSEMBLY
- EMERGENCY AND SAFETY SYSTEM
- DOOR ASSEMBLY DOOR OPERATORS
- GAR INTERIOR PANEL, REFLECTED CLG, FLOORING AND BASE MATERIAL SPECS I.IO. SIGNAL FIXTURES: CONTROL BUTTONS AND LAMPS
- HOISTWAY ENTRANCE: HOISTWAY AND CAR DOORS, SILLS AND SILL SUPPORTS FOR HOISTWAY AND CAR AS INDICATED, DOOR OPERATORS, DRIVE AND CLUTCHES
- 1.12. ELEVATOR DOORS AND DOOR OPERATOR. PROVIDE COMPONENTS, LAYOUT DETAIL
- COMPLETE WITH FASTENINGS, ETS. I.I3. WEIGHTS OF GAR DOORS
- 1.14. PAINT SCHEDULE
- 1.15. WIRING DIAGRAMS
- I.I.6. COMPLETE POWER, CONTROL, AND INDICATION SCHEMATIC DIAGRAMS. PROVIDE WIRING LIST AND CONNECTION DIAGRAMS. DIAGRAM SHALL INCLUDE INTERFACE CONNECTIONS TO THE EXTERNAL SYSTEM CIRCUITS, SUCH AS TELEPHONE AND FUTURE CCTV. PROVIDE THE INSTALLATION WIRING LISTS FOR ALL DEVICES, DETAILING EACH INDIVIDUAL CABLE AND WIRE NUMBER, COLOR AND TERMINAL DESIGNATION PER ELEVATOR, USED DURING THE INSTALLATION,
- ASSIGNMENTS OF ALL PROCESSOR INPUTS/OUTPUT CONDUCTORS INCLUDING
- 1.18. TRAVELING CABLES: PROVIDE DETAILS OF THE TRAVELING CABLE ATTACHMENT
- I.I.I. HYDRAULIC PUMPING SYSTEM: PUMP, VALVES, MOTOR AND PIPING. 1.20. HYDRAULIC RAM SYSTEM; CYLINDER, CASING, PACKING OIL SEAL, JACK OIL
- COLLECTION TROUGH AND OIL SCAVENCER SYSTEM. PROVIDE DETAIL OF RAM TO PI ATEN PI ATE I.2I. LIMIT SWITCHES AND MOUNTING DETAIL.
- 1.22. DETAIL FOR OIL COLLECTION TANK FRAME SUPPORT ASSEMBLY. 1.23. HOISTWAY PLAN, INCLUDING EQUIPMENT LOCATIONS, CLEARANCES, HOIST WAY
- DIMENSIONS ETC
- 1.24. CAR SELF LEVELING FEATURE 1.25. EMERGENCY TERMINAL STOPPING DEVICE IF CAR REACHES SPEED OVER 100 FPM SUBMIT SEPARATE DATA SHEETS FOR HEAT RELEASE CALCULATIONS, POWER REQUIREMENTS: CONDUIT FILL. AND GAR CUIDE SHOES AND HYDRAULIC SYSTEM. POWER REGINITS SHALL INDICATE MAXIMUM AND AVERAGE POWER DEMANDS AND REQUIREMENTS
- FOR EMERGENCY POWER OPERATION SUBMIT STRUCTURAL DESIGN GALCULATIONS FOR GAR ASSEMBLIES, GAR GUIDE RAILS AND SUPPORTS, MACHINE ASSEMBLY AND MACHINE BEAM BED PLATE SUPPORTS AND DEFLECTOR SHEAVE SUPPORTS. DESIGN GALGS SHALL BE PERFORMED BY A STRUCTURAL
- ENGINEER CURRENTLY REGISTERED IN THE STATE OF OHIO. SUBMIT SAMPLES FOR CAR FINSISH FLOOR, FINSH WALL AND CEILING SURFACES, BUTTONS, SWITCHES AND LAMPS, ALL BRAILLE SIGNS, AND STAINLESS STEEL FOR CAR OPERATING
- SUBMIT MER'S DESIGN DATA AND MATERIAL SPECS FOR ALL PARTS AND EQUMENT, INCLUDING TEST METHODS REQD TO VERIFY COMPLIANCE WITH SPECIFICATIONS.
- SUBMIT PRODUCT DATA FOR LUBRICANTS, SEALERS, PAINTS AND SOLVENTS, OPERATION AND MAINTENANCE DATA.
- SUBMIT DETAILED RESULTS OF EACH REGULATORY TEST.
- HOISTWAY ENTRANCES AT ALL LEVELS DOORS SHALL INCLUDE DOOR UNIT FRAME, FLUSH SILLS, STRUT ANGLES, HEADERS, HANGER COVERS, FASCIA PLATES, TOE GUARDS, DUST COVERS AND REQUIREDWARE. EXPOSED SURFACES SHALL BE STAINLESS STEEL. ALL STRUCTURAL STEEL SHALL BE
- GALVANIZED. 2. DOOR PANELS TO BE REINF STRUCT STEEL WITH MIN 14 GA ASTM A167 TYPE 316 STAINLESS STEEL NO. 4 FINISH GLADDING, FLUSH DESIGN, ROLED PROFILE, RIGID CONSTRUCTION TO ENSURE RIGIDITY. THE DOOR PANEL ASSEMBLY AND RELATED EQUIPMENT SHALL BE DESIGNED TO WITHSTAND THE FORCE REQMT OF ASME AIT.
- 3. PROVIDE FULL LENGTH NEOPRENE ASTRAGALS ON MEETING DOOR FACES
- F. MOUNT DOORS ON STRUCTURAL HEADER, NOT ON CAR ENCLOSURE 5. PROVIDE SIDE WINGS OF STAINLESS STEEL, NO. 4 FINISH
- 6. USE TORSION SPRING MECHANICAL CLOSURES; DO NOT USE WEIGHT CLOSURES 1. EXPOSED VERTICAL DOOR CORNERS SHALL BE SMOOTH AND SEAMLESS.
- 8. INSTALL DOOR EDGE SENSORS ALONG THE EDGE OF ELEVATOR DOORS OUTSIDE OF THE CAR DOOR FRAME STRUCTURES. 9. FRAMES TO BE FABRICATED FROM MINIMUM 14 GA STAINLESS STEEL WITH SIDE JAMBS IN
- ONE CONTINUOUS PIECE FROM SILL TO HEAD SECTION. HEAD AND JAMB FULLY WELDED MITTER CORNERS IO, FRONT RETURN PANELS TO BE FULL HEIGHT 12 GA STAINLESS STEEL, FIXED RETURNS;
- II. FASCIA, TOE AND HEAD CUARDS TO BE MIN 16 GA STAINLESS STEEL, NO. 4 FINISH, REINFORGED FASCIA CAR WALLS SHALL BE STAINLESS STEEL, NO LESS THAN 14 GA TYPE 316 NAAMM AMP 503
- NO 4 FINISH AND REINF STRUCTURALLY AT LEAST EVERY 30 INCHES. FINISH WORK SHALL HAVE SMOOTH SURFACES AND FREE OF BUCKLES, SCRATCHES, DENTS, WARPS, SQUEAKS AND RATTLES. JOINTS SHALL BE LIFGHT PROOF. FASTENERS SHALL NOT BE VISIBLE EXCEPT AS INDICATED.
- PROVIDE WALL STAINLESS STEEL HANDRAILS, 1 1/2" TUB OR BAR, FASTENED TO SUPPORT MIN OF 200 LB LOAD. 2. FURNISH SEAMLESS WALL TO WALL SHEET CARPETING, COLOR AND PATTERN AS
- 3. FURNISH EXHAUST FAN WITH SOUND ISOLATION MOUNTED ON CAR ROOF OR AS PER MFRS RECOMMENDATION. 4. CAR LIGHTING SHALL BE ID FT CANDLES MEASURED AT THE FLOOR LEVEL. 5. PROVIDE EMERGENCY LIGHTING PER OBG REQMTS WITH MIN 5 FT GANDLE ILLUMINATION
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ANY NECESSARY PERMITS, INCLUDING PERMIT TO COMPLETE.
- m. GONTRACTOR SHALL SUBMIT READ DWGS AND DESIGN GALCULATIONS TO THE STATE OF OHIO ELEVATOR DIVISION AND SHALL COPY THE ARCHITECT. INSTALLER SHALL BE AN AUTHORIZED AGENT OF THE MFR WITH NOT LESS THAN FIVE YEARS OF SATISFACTORY EXPERIENCE INSTALLING ELEVATORS EQUAL IN CHARACTER AND
- PERFORMANCE TO THE PROJECT ELEVATOR. ELEVATOR INSTALLER SHALL OBTAIN AND PAY FOR ALL REQD INSPECTIONS, TESTS; PERMITS AND FEES FOR ELEVATOR INSTALLATION AND SHALL ARRANGE FOR ALL INSPECTIONS AND TESTS.
- ELEVATOR SYSTEM SHALL HAVE A MINIMUM DESIGN LIFE OF 20 YEARS. ALL MATERIALS, INSTALLATION AND WORKMANSHIP SHALL COMPLY WITH ALL APPLICABLE REQNITS AND STANDARDS OF THE LATEST PUBLISHED EDITIONS OF THE FOLLOWING REFERENCES, INCLUDING ALL AMENDMENTS ADOPTED PRIOR TO THE EFFECTIVE DATE OF
- THIS CONTRACT: ANSI AIITI
- 2. ASME AIT.I. AIT.2. AND AIT.3 3. NATIONAL ELEVATOR INDUSTRY NEH-I

SELECTED FROM MFRS STD RANGE.

- 4. OAC CHAPTER 4101.5
- 5. OBC CHAPTER 30 6. UL A 2008 AN UL 1581
- 1. THE ELEVATOR SHALL NOT BE USED FOR ANY PURPOSE BY THE CONTRACTOR OR ANY OF HIS FORCES DURING CONSTRUCTION OTHER THAN FOR TESTING PURPOSES.

DIVISION 21 - FIRE PROTECTION

- 2100. PROVIDE THE DESIGN, MATERIALS, EQUIPMENT, INSTALLATION, INSPECTION, AND TESTING OF THE AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF NFPA 13. a. THE DESIGN AND INSTALLATION OF HYDRAULICALLY CALCULATED AUTOMATIC WET-PIPE SYSTEM
- b. MODIFICATIONS OF THE EXISTING SPRINKLER SYSTEM AS INDICATED ON THE DRAWINGS AND AS

COMPLETE AND READY FOR OPERATION FOR ALL PORTIONS OF THE BUILDING, INCLUDING THE

FURTHER REQUIRED BY THESE GENERAL NOTES.

- PENTHOUSE, ATTIC SPACE, ELEVATOR MACHINE ROOM, ELEVATOR PITS, LINEN CHUTES, AND

- 2101. GONFORM TO LATEST EDITIONS OF THE FOLLOWING REFERENCE STANDARDS, WITH CURRENT REVISIONS, FOR THE DESIGN, MANUFACTURING, TESTING, AND INSTALLATION OF AUTOMATIC SPRINKLER
- a. AMERICAN NATIONAL STANDARDS INSTITUTE, INTERNATIONAL, (ANSI).
- b. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME). c. AMERICAN WATER WORKS ASSOCIATION (AWWA).
- d. FACTORY MUTUAL ENGINEERING CORP. (FM). e. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- F. NATIONAL SCIENCE FOUNDATION (NSF)/ANSI. g. UNDERWRITERS' LABORATORIES, INC. (UL).
- 2102. WET-PIPE SPRINKLER SYSTEMS a. PERFORM HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 UTILIZING THE AREA/DENSITY METHOD, DO NOT RESTRICT DESIGN AREA REDUCTIONS PERMITTED FOR USING QUICK RESPONSE SPRINKLERS THROUGHOUT BY THE REQUIRED USE OF STANDARD RESPONSE SPRINKLERS IN THE
 - AREAS IDENTIFIED IN THE SECTION. b. SPRINKLER PROTECTION: SPRINKLER HAZARD CLASSIFICATIONS SHALL BE IN ACCORDANCE WITH - NFPA I3. THE HAZARD CLASSIFICATION EXAMPLES OF USES AND CONDITIONS IDENTIFIED IN THE
 - - CLASSIFICATION FROM THE ARCHITECT / ENGINEER FOR ANY HAZARD CLASSIFICATION NOT - IDENTIFIED. TO DETERMINING SPACING AND SIZING, APPLY THE FOLLOWING THE FOLLOWING - COVERAGE CLASSIFICATION:
 - I. LIGHT HAZARD OCCUPANCIES: BUSINESS OFFICES AND CONFERENCE ROOMS, PATIENT CARE AND TREATMENT ROOMS, AND CORRIDORS AND HALLWAYS. 2. ORDINARY HAZARD GROUP I: LABORATORIES, MECHANICAL EQUIPMENT ROOMS,
 - TRANSFORMER ROOMS, ELECTRICAL SWITCHCEAR ROOMS, ELECTRICAL CLOSETS, AND REPAIR AND WORK ROOMS
- 3. ORDINARY HAZARD GROUP 2: STORAGE ROOMS, TRASH ROOMS, GLEAN AND SOILED LINEN ROOMS, PHARMACY AND ASSOCIATED STORAGE, LAUNDRY, KITCHENS, KITCHEN STORAGE AREAG, RETAILS STORES, RETAIL STORE STORAGE ROOMS AND AREAG, BOILER PLANTS/ROOMS, WAREHOUSE SPACES, FILE STORAGE AREAS FOR THE ENTIRE AREA UP TO
- c. IMPRAULIC CALCULATIONS: CALCULATED DEMAND INCLUDING HOSE STREAM REQUIREMENTS SHALL FALL NO LESS THAN TO PERCENT BELOW THE AVAILABLE WATER SUPPLY CURVE. I. OBTAIN WATER UTILITY PROVIDER'S CURRENT HYDRANT FLOW TEST AND MAKE PART OF
- CONTRACT DOCUMENTS. PROVIDE COPY OF THE PROVIDER'S TEST RESULTS TO THE ARCHITECT/ENGINEER.
- 2. CALCULATIONS SHALL STATE THE FOLLOWING: -----a) WATER SUPPLY:
- I) BASE WATER SUPPLY ON A FLOW TEST 2) LOCATION
- b) ELEVATION STATIC TEST GAUGE, ft.
- d) STATIC PRESSURE, psi.
- e) RESIDUAL PRESSURE, ps
- +) FLOW, apm. a) DATE AND TIME.
- 3. ZONING: FOR EACH SPRINKLER ZONE PROVIDE A CONTROL VALVE, FLOW SWITCH, AND A TEST AND DRAIN ASSEMBLY WITH PRESSURE GAUGE, FOR BUILDINGS GREATER THAN TWO STORIES, PROVIDE A CHECK VALVE AT EACH CONTROL VALVE.
- 4. PROVIDE SEISMIC PROTECTION IN ACCORDANCE WITH NEPA 13. CONTRACTOR SHALL SUBMIT LOAD CALCULATIONS FOR SIZING OF SWAY BRACING FOR SYSTEMS THAT ARE REQUIRED TO BE PROTECTED AGAINST DAMAGE FROM EARTHQUAKES. d. PROVIDE SUBMITTALS IN ACCORDANCE WITH SECTION OIL2 OF THESE GENERAL NOTES.
- I. DESIGNER: PREPARE DETAILED WORKING DRAWINGS THAT ARE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE FIELD OF FIRE PROTECTION ENGINEERING OR A CERTIFIED FIRE PROTECTION DESIGNER CERTIFIED BY THE STATE OF
- OHIO FIRE MARSHALL. 2. DRAWINGS CONFORMING TO THE PLANS AND GALGULATIONS CHAPTER OF NEPA 13. 3. MANUFACTURER'S DATA SHEETS.
- 4. INDRAULIC CALCULATION SHEETS CONFORMING TO THE PLANS AND CALCULATIONS CHAPTER OF NEPA 13
- IVIDE A VALVE CHART THAT IDENTIFIES THE LOCATION OF EACH CONTROL VALVE.
- 6. A MINIMUM OF THO COMPLETE SETS OF AS-BUILT DRAWINGS. - 7. MATERIAL AND TESTING CERTIFICATES.
- 8. OPERATIONS AND MAINTENANCE MANUALS. e. QUALITY ASSURANCE
- I. INSTALLER RELIABILITY: THE INSTALLER SHALL POSSESS A VALID STATE OF OHIO FIRE SPRINKLER CERTIFICATION AS ISSUED BY THE STATE OF OHIO FIRE MARSHALL. THE INSTALLER SHALL HAVE BEEN ACTIVELY AND SUCCESSFULLY ENGAGED IN THE INSTALLATION
- OF COMMERCIAL AUTOMATIC SPRINKLER SYSTEMS FOR THE PAST TEN YEARS. 2. MATERIALS AND EQUIPMENT: ALL EQUIPMENT AND DEVICES SHALL BE OF A MAKE AND TYPE LISTED BY UL OR APPROVED BY FM, OR OTHER NATIONALLY RECOGNIZED TESTING LABORATORY FOR THE SPECIFIC PURPOSE FOR WHICH IT IS TO BE USED. ALL MATERIAL,
- EQUIPMENT AND DEVICES SHALL BE NEW AND FREE FROM DEFECT. F. PIPE AND FITTINGS
- I. PIPING AND FITTINGS FOR PRIVATE UNDERGROUND WATER MAINS SHALL BE IN ACCORDANCE WITH NEPA 13.
- a) PIPE AND FITTINGS FROM INSIDE FACE OF BUILDING 12 INCHES ABOVE FINISHED FLOOR TO A DISTANCE OF APPROXIMATELY 5 FEET OUTSIDE BUILDING: DUCTILE IRON, FLANCED FITTINGS AND 316 STAINLESS STEEL BOLTING. 2. PIPING AND FITTINGS FOR SPRINKLER SYSTEMS SHALL BE IN ACCORDANCE WITH NFPA 13:
- a) PLAIN-END PIPE FITTINGS WITH LOCKING LUGS OR SHEAR BLOCKS ARE NOT PERMITTED: b) PIPING SIZES 2 INCHES AND SMALLER SHALL BE BLACK STEEL SCHEDULE 40 WITH THREADED END CONNECTIONS. c) PIPING SIZES 2-1/2 INCHES AND LARGER SHALL BE BLACK STEEL SCHEDULE IO WITH
- GROOVED CONNECTIONS, GROOVES IN SCHEDULE TO PIPING SHALL BE ROLLED GROOVED d) Plastic Piping shall not be permitted except for drainage Piping.
- FLEXIBLE SPRINKLER HOSE SHALL BE FM APPROVED AND LIMITED TO HOSE WITH THREADED END FITTINGS WITH A MINIMUM INSIDE DIAMETER OF I-INCH AND MAXIMUM LENGTH OF 6 FEET.
- q. VALVES _____I, CENERAL: VALVES SHALL BE IN ACCORDANCE WITH NFPA 13.
- a) DO NOT USE QUARTER TURN BALL VALVES FOR 2 INCH OR LARGER DRAIN VALVES. 2. CONTROL VALVE: THE CONTROL VALVES SHALL BE LISTED INDICATING TYPE. CONTROL VALVES SHALL BE UL LISTED OR FM APPROVED FOR FIRE PROTECTION INSTALLATIONS. SYSTEM CONTROL VALVE SHALL BE RATED FOR NORMAL SYSTEM PRESSURE BUT IN NO
- CASE LESS 175 PSI. 3. CHECK VALVE: SHALL BE OF THE SWING TYPE WITH A FLANGED CAST IRON BODY AND FLANGED INSPECTION PLATE.
- 4. AUTOMATIC BALL DRIPS: CAST BRASS 3/4 INCH IN-LINE AUTOMATIC BALL DRIP WITH BOTH ENDS THREADED WITH IRON PIPE THREADS.
- 5. ALARM CHECK VALVE: ALARM CHECK VALVE SHALL BE UL LISTED AND FM APPROVED. THE ALARM CHECK VALVE SHALL BE LISTED FOR INSTALLATION IN THE VERTICAL OR HORIZONTAL POSITION, THE ALARM CHECK VALVE SHALL BE EQUIPPED WITH A REMOVABLE
- COVER ASSEMBLY, CAUGE CONNECTIONS ON THE SYSTEM SIDE AND SUPPLY SIDE OF THE VALVE CLAPPER, VARIABLE PRESSURE TRIM, AND AN EXTERNAL BYPASS TO ELIMINATE FALSE WATER FLOW ALARMS, THE ALARM CHECK VALVE TRIM PIPING SHALL BE GALVANIZED. MAXIMUM WATER WORKING PRESSURE TO 250 PSI.
- 6. BACKFLOW PREVENTER: PROVIDE BACKFLOW PREVENTER IN ACCORDANCE WITH DIVISION 22 PLUMBING OF THESE GENERAL NOTES AND THE UTILITY PROVIDERS REQUIREMENTS: - a) Provide Means to Forward Flow test the BackFlow Preventer in Accordance - WITH NEPA 13 REQUIREMENTS.
- h. FIRE DEPARTMENT SIAMESE CONNECTION - I. ONLY USE THE FIRE DEPARTMENT SIAMESE CONNECTION AS APPROVED BY THE LOCAL FIRE
- DEPARTMENT AND/OR THE AUTHORITY HAVING JURISDICTION: 2. BRASS, FLUSH WALL TYPE, OR STORZ TYPE, EXTERIOR FIRE DEPARTMENT CONNECTION WITH BRASS ESCUTCHEON PLATE, WITH OR WITHOUT SILL COCK, AND A MINIMUM OF TWO 2-1/2 INCH CONNECTIONS THREADED TO MATCH THOSE OF THE LOCAL FIRE PROTECTION SERVICE, WITH POLISHED BRASS GAPS AND CHAINS. PROVIDE ESCUTCHEON WITH INTEGRAL RAISED LETTERS; -- "AUTOMATIC SPRINKLER" OR "STANDPIPE AND AUTOMATIC SPRINKLER". INSTALL AN
 - DRAIN PIPING ROUTED TO THE EXTERIOR OR A FLOOR DRAIN.
- I. ALL SPRINKLERS SHALL BE FM APPROVED QUICK RESPONSE, PROVIDE FM APPROVED QUICK RESPONSE SPRINKLERS IN ALL AREAS, EXCEPT THAT STANDARD RESPONSE SPRINKLERS SHALL BE PROVIDED IN FREEZERS, REFRIGERATORS, ELEVATOR HOIST-WAYS, ELEVATOR MACHINE ROOMS, AND GENERATOR ROOMS.

- 2. TEMPERATURE RATINGS: IN ACCORDANCE WITH NFPA 13 EXCEPT THAT SPRINKLERS IN ELEVATOR SHAFTS AND ELEVATOR MACHINE ROOMS SHALL BE NO LESS THAN INTERMEDIATE <u>- TEMPERATURE RATED AND SPRINKLERS IN GENERATOR ROOMS SHALL BE NO LESS THAN HIGH</u>
- TEMPERATURE RATED. 3. PROVIDE SPRINKLER CUARDS IN ACCORDANCE WITH NFPA 13 AND WHEN THE ELEVATION OF THE SPRINKLER HEAD IS LESS THAN 7 FEET 6 INCHES ABOVE FINISHED FLOOR, THE
- SPRINKLER GUARD SHALL BE UL LISTED OR FM APPROVED FOR USE WITH THE
- CORRESPONDING SPRINKLER. 1. SPRINKLER CABINET
- RATINGS AND TYPES INSTALLED, AND A SPRINKLER WRENCH FOR EACH TYPE OF SPRINKLER
- IN ACCORDANCE WITH NEPA 13, LOCATE ADJACENT TO THE RISER. - 2. PROVIDE A LIST OF SPRINKLERS INSTALLED IN THE PROPERTY IN THE CABINET, THE LIST
- SHALL INCLUDE THE FOLLOWING: a) MANUFACTURER, MODEL, ORIFICE, DEFLECTOR TYPE. THERMAL SENSITIVITY. AND
- PRESSURE FOR EACH TYPE OF SPRINKLER IN THE CABINET.
- b) GENERAL DESCRIPTION OF WHERE EACH SPRINKLER IS USED. c) QUANTITY OF EACH TYPE PRESENT IN THE CABINET.
- d) ISSUE OR REVISION DATE OF LIST. k, SPRINKLER SYSTEM SIGNAGE: RIGID PLASTIG, STEEL OR ALUMINUM SIGNS WITH WHITE LETTERING ON A RED BACKGROUND WITH HOLES FOR EASY ATTACHMENT, SPRINKLER SYSTEM SIGNAGE SHALL BE ATTACHED TO THE VALVE OR PIPING WITH A CHAIN.
- I. OS&Y (OUTSIDE SCREW & YOKE) VALVE SUPERVISORY SWITCHES SHALL BE WEATHER-PROOF SCREWS, 1/2 INCH CONDUIT ENTRANCE AND NECESSARY FACILITIES FOR ATTACHMENT TO THE VALVE, PROVIDE TWO SPDT (SINGLE POLE DOUBLE THROW) SWITCHES RATED AT 2.5 AMPS.
- AT 24 VDC. - 2. WATER FLOW ALARM SMITCHES: MECHANICAL, NON-CODED, NON-ACCUMULATIVE RETARD AND ADJUSTABLE FROM O TO 60 SECONDS MINIMUM, SET FLOW SMITCHES AT AN INITIAL SETTING BETWEEN 20 AND 30 SECONDS. 3. ALARM PRESSURE SMITCHES: ACTIVATION BY ANY FLOW OF WATER EQUAL TO OR IN EXCESS
- OF THE DISCHARGE FROM ONE SPRINKLER, THE ALARM PRESSURE SWITCH SHALL BE UL ALARM PRESSURE SMITCH SHALL CAUSE AN ALARM ON THE FIRE ALARM SYSTEM CONTROL
- 4. VALVE SUPERVISORY SWITCHES FOR BALL AND BUTTERFLY VALVES: MAY BE INTEGRAL WITH THE VALVE. m. GAUGES: PROVIDE GAUGES AS REQUIRED BY NFPA 13, PROVIDE GAUGES WHERE NORMAL PRESSURE OF THE SYSTEM IS AT THE MIDRANGE OF THE GAUGE.
- n. PIPE HANGERS, SUPPORTS, AND RESTRAINT OF SYSTEM PIPING: PIPE HANGERS, SUPPORTS, AND - RESTRAINT OF SYSTEM PIPING SHALL BE IN ACCORDANCE WITH NFPA 13. o. WALL, FLOOR, AND CEILING PLATES: PROVIDE CHROME PLATED STEEL ESCUTCHEON PLATES.

p. ANTIFREEZE SOLUTION: ANTIFREEZE SOLUTION SHALL BE IN ACCORDANCE WITH NFPA 13 AND

- SHALL BE COMPATIBLE WITH USE IN POTABLE WATER SUPPLY. g. VALVE TAGS: ENGRAVED BLACK FILLED NUMBERS AND LETTERS NOT LESS THAN 1/2 INCH HIGH FOR NUMBER DESIGNATION, AND NOT LESS THAN 1/4 INCH FOR SERVICE DESIGNATION ON 19 GAGE. - I-I/2 INCHES ROUND BRASS DISG, ATTACHED WITH BRASS "S" HOOK, BRASS CHAIN, OR NYLON TWIST TIE.
- r. INSTALL ATION I. INSTALLATION SHALL BE ACCOMPLISHED BY THE LICENSED CONTRACTOR, PROVIDE A QUALIFIED TECHNICIAN, EXPERIENCED IN THE INSTALLATION AND OPERATION OF THE TYPE OF SYSTEM BEING INSTALLED, TO SUPERVISE THE INSTALLATION AND TESTING OF THE SYSTEM.
- INSTALLATION OF THE COMPLETE SYSTEM SHALL BE IN STRICT CONFORMANCE WITH NFPA 13. 2. SPRINKLERS AND PIPING LAYOUTS SHOWN ARE SCHEMATICALLY DRAWN, THE EXACT LOCATIONS OF ALL SPRINKLERS AND PIPING SHALL BE DETERMINED BY THE STRUCTURE. - COORDINATE THE SPRINKLERS AND PIPING WORK WITH WORK OF OTHER TRADES.
- 3. INSTALLATION OF PIPING: ACCURATELY CUT PIPE TO MEASUREMENTS ESTABLISHED BY THE - INSTALLER AND WORK INTO PLACE WITHOUT SPRINGING OR FORGING, CONCEAL PIPING THAT HAVE FINISHED CEILINGS, INSTALL SPRINKLERS AND PIPING SO AS TO NOT OBSTRUCT THE MOVEMENT OR OPERATION OF OTHER EQUIPMENT, SIDEWALL HEADS MAY NEED TO BE UTILIZED. IN STAIRWAYS, LOCATE PIPING AS NEAR TO CEILING AS POSSIBLE TO PREVENT TAMPERING WITH SYSTEM AND TO PROVIDE A MINIMUM HEADROOM GLEARANGE OF SEVEN FEET SIX INCHES. SPRINKLERS AND PIPING SHALL NOT OBSTRUCT THE MINIMUM MEANS
- EGRESS CLEARANCES REQUIRED BY NFPA IOI AND THE OBC. 4. WELDING SHALL CONFORM TO THE REQUIREMENTS AND RECOMMENDATIONS OF NEPA 13. - 5 SI FFVFS.
- a) PROVIDE THE GENERAL CONTRACTOR WITH LOCATIONS OF SYSTEM PIPING PASSING THROUGH MASONRY AND CONCRETE. b) SLEEVES TO BE PROVIDED BY AND INSTALLED BY THE GENERAL CONTRACTOR.
- c) PROVIDE SPACE BETWEEN THE PIPE AND THE SLEEVE IN ACCORDANCE WITH NEPA 13. 1) SEAL THIS SPACE WITH UL LISTED THROUGH PENETRATION FIRE STOP MATERIAL IN
- ACCORDANCE WITH DIVISION OF OF THESE GENERAL NOTES. d) WHERE CORE DRILLING IS USED IN LIEU OF SLEEVES, ALSO SEAL SPACE. e) SEAL PENETRATIONS OF WALLS, FLOORS, AND CEILINGS OF OTHER TYPES OF
- CONSTRUCTION, IN ACCORDANCE WITH DIVISION OF OF THESE GENERAL NOTES. 6. FURNISH, LOCATE AND INSTALL FIRE DEPARTMENT CONNECTION SIGNAGE IN ACCORDANCE WITH NEPA 170-7. FURNISH, LOGATE AND INSTALL SPRINKLER SYSTEM SIGNAGE IN ACCORDANCE WITH NFPA 13
- AND NFPA 25 REQUIREMENTS. 8. REPAIRS: REPAIR DAMAGE TO THE BUILDING OR EQUIPMENT RESULTING FROM THE - INSTALLATION OF THE SPRINKLER SYSTEM BY THE INSTALLER AT NO ADDITIONAL COST TO
- THE OWNER. 9. INTERRUPTION OF SERVICE: THERE SHALL BE NO INTERRUPTION OF THE EXISTING SPRINKLER PROTECTION, WATER, ELECTRIC, OR FIRE ALARM SERVICE WITHOUT PRIOR PERMISSION OF THE OWNER, ARCHITECT AND ENGINEER. CENERAL CONTRACTOR SHALL DEVELOP AN INTERIM FIRE PROTECTION PROGRAM WHERE INTERRUPTIONS INVOLVE OCCUPIED SPACES, SCHEDULE
- INTERRUPTIONS WITH OWNER, ARCHITECT AND ENGINEER. s. INSPECTION AND TEST I. PRELIMINARY TESTING: FLUSH NEWLY INSTALLED SYSTEMS PRIOR TO PERFORMING WELL AS ENSURING PIPING IS UNOBSTRUCTED. HYDROSTATICALLY TEST SYSTEM, INCLUDING THE FIRE DEPARTMENT CONNECTIONS, AS SPECIFIED IN NFPA 13, IN THE PRESENCE OF THE
- GENERAL CONTRACTOR AND THE OWNER OR THE OWNER'S REPRESENTATIVE, TEST AND FLUSH - UNDERGROUND WATER LINE PRIOR TO PERFORMING HYDROSTATIC TESTS. 2. FINAL INSPECTION AND TESTING: SUBJECT SYSTEM TO TESTS IN ACCORDANCE WITH NFPA 13; AND WHEN ALL NECESSARY CORRECTIONS HAVE BEEN ACCOMPLISHED, ADVISE THE CENERAL
- CONTRACTOR TO SCHEDULE FINAL INSPECTION AND TEST. a) CONNECTION TO THE FIRE ALARM SYSTEM SHALL HAVE BEEN IN SERVICE FOR AT LEAST TEN DAYS PRIOR TO THE FINAL INSPECTION, WITH ADJUSTMENTS MADE TO PREVENT
- FALSE ALARMS. b) FURNISH ALL INSTRUMENTS, LABOR AND MATERIALS REQUIRED FOR THE TESTS AND PROVIDE THE SERVICES OF THE INSTALLATION PROJECT MANAGER OR OTHER - COMPETENT REPRESENTATIVE OF THE INSTALLER TO PERFORM THE TESTS. CORRECT DEFICIENCIES AND RETEST SYSTEM AS NECESSARY, PRIOR TO THE FINAL ACCEPTANCE.
- HOURS FOR INSTRUCTING THE OWNER AND/OR THE OWNER'S PERSONNEL IN THE OPERATION AND - MAINTENANCE OF THE SYSTEM, ON THE DATES REQUESTED BY OWNER AND/OR GENERAL - CONTRACTOR:

- 2103. UPGRADE THE EXISTING "LIMITED AREA SPRINKLER SYSTEM" IN ACCORDANCE WITH NFPA AND THE DRAWINGS INCLUDED THIS SET
 - a. FIRE SUPPRESSION MATERIALS, EQUIPMENT, HEADS, INSTALLATION AND TESTING SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 9, OBC, NFPA 13, NFPA 101, NFPA 170, U.L. "FIRE PROTECTION EQUIPMENT DIRECTORY," AND FACTORY MUTUAL ENGINEERING CORP. (FM) APPROVAL CUIDE:
- b. USE ONLY PIPING AND FITTINGS IN ACCORDANCE WITH NEPA 13 REQUIREMENTS: C. FURNISH NEW "BACKFLOW" IN ACCORDANCE WITH NFPA 13, THE DRAWINGS AND THE UTILITY
- PROVIDER'S REQUIREMENTS d. FURNISH REQUIRED GAUGES IN ACCORDANCE WITH NFPA 13.
- e. PIPE HANGERS AND SUPPORTS . SUPPORTS, HANGERS, ETC. OF AN APPROVED PATTERN PLACEMENT TO CONFORM TO NEPA 13: a) SYSTEM PIPING SHALL BE SUBSTANTIALLY SUPPORTED TO THE BUILDING STRUCTURE.

b) THE INSTALLATION OF HANGERS AND SUPPORTS SHALL ADHERE TO THE REQUIREMENTS

- SET FORTH IN NEPA 13, "STANDARDS FOR INSTALLATION OF SPRINKLER SYSTEMS." c) MATERIALS USED IN THE INSTALLATION OR CONSTRUCTION OF HANGERS AND SUPPORTS SHALL BE LISTED AND APPROVED FOR SUCH APPLICATION.
- I. ALL SPRINKLERS SHALL BE FM APPROVED. PROVIDE QUICK RESPONSE SPRINKLERS IN ALL AREAS, EXCEPT WHERE SPECIFICALLY PROHIBITED BY THEIR LISTING OR APPROVAL.
- a) ELEVATOR SHAFTS AND ELEVATOR MACHINE ROOMS: STANDARD RESPONSE: b) ELEVATOR PIT: SIDEWALL. c) TEMPERATURE RATINGS: IN ACCORDANCE WITH NFPA 13, EXCEPT AS FOLLOWS:
- I) ELEVATOR SHAFTS, ELEVATOR PITS AND ELEVATOR MACHINE ROOMS: INTERMEDIATE TEMPERATURE RATED. a. WALL, FLOOR AND CEILING PLATES
- . PROVIDE CHROME PLATED STEEL ESCUTCHEON PLATES FOR EXPOSED PIPING PASSING THROUGH WALLS, FLOORS OR CEILINGS. INSTALL THE U.L., AND FM APPROVED MATERIALS FOR THE ALTERED LIMITED AREA SPRINKLER SYSTEM IN ACCORDANCE WITH THE DRAWINGS, CHAPTER 9, OBC AND NEPA 13 COMPLETE AND
- READY FOR OPERATION - I. ACCURATELY CUT PIPE TO MEASUREMENTS ESTABLISHED AND WORK INTO PLACE WITHOUT SPRINGING OR FORCING.
- 2. CONCEAL PIPING IN SPACES THAT HAVE A FINISHED CEILING UNLESS SPECIFICALLY WAIVED BY THE OWNER/CONTRACTOR: 3. LOCATE PIPING AND SPRINKLERS TO PREVENT TAMPERING BY UNAUTHORIZED PERSONNEL,
- AND TO PROVIDE A MINIMUM HEADROOM CLEARANCE OF SEVEN FEET SIX INCHES (7'-6"). 4. FIRESTOPPING: SEE DIVISION OF THESE GENERAL NOTES. 5. FURNISH AND INSTALL REQUIRED IDENTIFICATION SIGNS WHERE REQUIRED. INSPECTION AND TEST

13 REQUIREMENTS.

BEFORE TESTING: FLUSH NEWLY INSTALLED SYSTEMS PRIOR TO PERFORMING TESTS IN ORDER TO REMOVE ANY DEBRIS AS WELL AS ENSURING PIPING IS UNOBSTRUCTED. 2. AFTER NECESSARY CORRECTIONS, TEST THE COMPLETE SYSTEM IN ACCORDANCE WITH NFPA

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> Expiration Date: December 31, 2023 **THROUGH DIVISION 21**

Stephen M. Luchtenberg

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DIVISIONS 15 THRU 20 - NO REQUIREMENTS

- AUTOMATIC BALL DRIP BETWEEN FIRE DEPARTMENT CONNECTION AND CHECK VALVE WITH

INCLUDE THE OPERATION OF ALL FEATURES OF THE SYSTEMS UNDER NORMAL OPERATIONS TESTS. t. INSTRUCTIONS: FURNISH THE SERVICES OF A COMPETENT INSTRUCTOR FOR NOT LESS THAN 2

DRAWN BY: NJP, SML

STEPHEN LUCHTENBERG 8546

> GENERAL NOTES **DIVISION 13**

CONDITIONED AIR SYSTEM.

a. SLEEVES: FURNISH AND DIMENSIONALLY LOCATE FOR INSTALLATION BY GC I. WEATHER-PROOFING THE EXTERIOR FACE OF EXTERIOR WALLS AT SLEEVES IS BY GC; SEALING THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS IS BY THE PLUMBING CONTRACTOR (PC). b. PROVIDE ACCESS DOOR(S) AS REQUIRED FOR FUTURE ACCESS TO WORK. COORDINATE

c. PROVIDE TEMPORARY WATERPROOFING OF PENETRATIONS THROUGH THE ROOF AND EXTERIOR

LOCATION(S) WITH ENGINEER AND ARCHITECT. REFERENCE PLUMBING DRAWINGS FOR SPECIFIC

2200. PROVIDE THE DOMESTIC POTABLE WATER, DRAIN, WASTE, VENT (DWG), SUMP AND NATURAL GAS

INCIDENTALS AS REQUIRED FOR COMPLETE, FUNCTIONAL SYSTEMS.

SYSTEMS AS SHOWN ON THE DRAWINGS, PREPARED BY MCMULLEN ENGINEERING, AND IN ACCORDANCE

WITH OBC CHAPTERS II AND 29, 2017 AND THE OHIO PLUMBING CODE (OPC), 2017, WITH COMPONENTS

AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES ALL PERMITS (OTHER THAN PLUMBING PLANS

APPROVAL / PLUMBING PERMIT), PIPING, FITTINGS, METERS (FURNISHED BY OTHERS), TRAP PRIMERS,

VALVES, FIXTURES, SEALANTS, STERILIZING, PANS, HANGERS AND SUPPORTS, SLEEVES, ESCUTCHEONS,

INSULATION, IDENTIFICATION, FINAL CONNECTIONS, PRESSURE TESTING, REGULATORS AND ALL OTHER

d. PC WILL BE RESPONSIBLE FOR PROVIDING UNDERGROUND DOMESTIC POTABLE WATER AND SANITARY PIPING TO FIVE (5) FEET OUTSIDE THE BUILDING UNLESS NOTED OTHERWISE.

e. REFERENCE DIVISION 07 OF THE GENERAL NOTES AND THE PLUMBING DRAWINGS FOR SEALANT REQUIREMENTS.

REFERENCE THE PLUMBING DRAWINGS FOR TECHNICAL SPECIFICATIONS AND OTHER GENERAL INFORMATION PERTAINING TO THIS PROJECT. a. AS PART OF PROJECT CLOSE-OUT, CONDUCT TRAINING WITH THE OWNER OR THE OWNER'S

REPRESENTATIVE OF THE INSTALLED SYSTEM. INCLUDE LOCATIONS OF VALVES, MAINTENANCE REQUIREMENTS, ETC.

2201. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION AS LISTED IN THE OPC-2017. a. AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE (AHRI)

b. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

c. AMERICAN PETROLEUM INSTITUTE (API)

d. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) e. AMERICAN SOCIETY OF PLUMBING ENGINEERS (ASPE)

f. AMERICAN SOCIETY OF SANITARY ENGINEERS (ASSE)

a. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) . AMERICAN WELDING SOCIETY (AWS)

AMERICAN WATER WORKS ASSOCIATION (AWWA)

CAST IRON SOIL PIPE INSTITUTE (CISPI)

. CANADIAN ENGINEERING STANDARDS ASSOCIATION (CSA) I. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC)

m. FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

n. INTERNATIONAL ASSOCIATION OF PLUMBING AND MECHANICAL OFFICIALS (IAPMO) o. INTERNATIONAL CODE COUNCIL, INC. (ICC)

. INTERNATIONAL SAFETY EQUIPMENT ASSOCIATION (ISEA)

p. INTERNATIONAL FUEL GAS CODE (IFGC)

MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE & FITTINGS INDUSTRY, INC. (MSS)

5. NATIONAL ELECTRICAL CODE (NEC)

t. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

U. NATIONAL SANITATION FOUNDATION (NSF) v. Plumbing and drainage institute (PDI)

W. UNDERWRITERS' LABORATORIES (UL) x. U.S. DEPARTMENT OF ENERGY (USDE - ENERGY STAR PROGRAM)

y. U.S. PRODUCTS STANDARDS (USPS)

2300. PROVIDE THE HEATING, AIR CONDITIONING, VENTILATION (HVAC) AND CONTROLS WORK AS SHOWN ON 2600. PROVIDE ALL ELECTRICAL WORK AS SHOWN ON THE DRAWINGS PREPARED BY MCMULLEN THE DRAWINGS PREPARED BY McMULLEN ENGINEERING, AND IN ACCORDANCE WITH OBC CHAPTER 28, 2017, THE OHIO MECHANICAL CODE (OMC) 2017, AND THE INTERNATIONAL FUEL GAS CODE (IFGC), WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES ALL PERMITS (OTHER THAN PLANS APPROVAL) ALL DUCTING, AIR HANDLING EQUIPMENT, AIR CONDENSING EQUIPMENT, FRESH AIR VENTING, REFRIGERANT PIPING, FITTINGS, HANGERS AND SUPPORTS, INSULATION, THERMOSTATS, LOW VOLTAGE WIRING, REFRIGERANT, EXHAUST FANS AND DUCTING, CONDENSATE DRAIN SYSTEM, FIRE DAMPERS, AIR CONTROL DAMPERS, AIR DEVICES (GRILLES, LOUVERS AND DIFFUSERS), TESTING, BALANCING AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE, FUNCTIONAL

a. SLEEVES: FURNISH AND DIMENSIONALLY LOCATE FOR INSTALLATION BY GC. I. WEATHER-PROOFING THE EXTERIOR FACE OF EXTERIOR WALLS AT SLEEVES IS BY GC:

SEALING THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS IS BY THE MECHANICAL (HVAC) CONTRACTOR (MC).

b. PROVIDE ACCESS DOOR(S) AS REQUIRED FOR FUTURE ACCESS TO WORK. COORDINATE LOCATION(S) WITH ENGINEER. REFERENCE HVAC DRAWINGS FOR SPECIFIC REQUIREMENTS. c. PROVIDE TEMPORARY WATERPROOFING OF PENETRATIONS THROUGH THE ROOF AND EXTERIOR

d. REFERENCE DIVISION OT OF THE GENERAL NOTES AND THE HVAC DRAWINGS FOR SEALANT

e. REFERENCE THE HVAC DRAWINGS FOR TECHNICAL SPECIFICATIONS AND OTHER INFORMATION PERTAINING TO THIS PROJECT.

F. AS PART OF PROJECT CLOSE-OUT, CONDUCT TRAINING WITH THE OWNER OF THE INSTALLED SYSTEMS. INCLUDE MAINTENANCE REQUIREMENTS, THERMOSTAT PROGRAMMING, FILTER CHANGING/CLEANING, ETC.

2301. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION AS LISTED IN THE OMC-2017.

a. AIR CONDITIONING CONTRACTORS OF AMERICA (ACCA) b. AIR-CONDITIONING, HEATING, AND REFRIGERATION INSTITUTE (AHRI)

c. AIR MOVEMENT AND CONTROL ASSOCIATION INTERNATIONAL (AMCA)

d. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) e. AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR-CONDITIONING ENGINEERS (ASHRAE)

AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE) AMERICAN SOCIETY OF SANITARY ENGINEERS (ASSE)

AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) AMERICAN WELDING SOCIETY (AMS)

AMERICAN WATER WORKS ASSOCIATION (AWWA)

I. CANADIAN ENGINEERING STANDARDS ASSOCIATION (CSA) m. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC)

n. DEPARTMENT OF LABOR (DOL)

o. FEDERAL SPECIFICATIONS (FS) p. INTERNATIONAL CODE COUNCIL, INC. (ICC)

INTERNATIONAL FUEL GAS CODE (IFGC)

. INTERNATIONAL INSTITUTE OF AMMONIA REFRIGERATING (IIAR)

s. MANUFACTURERS STANDARDIZATION SOCIETY OF THE VALVE & FITTINGS INDUSTRY, INC. (MSS)

t. NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION (NAIMA) U. NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS (NBBI)

v. NATIONAL ELECTRICAL CODE (NEC)

W. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

x. NATIONAL SANITATION FOUNDATION (NSF)

4. SHEET METAL & AIR-CONDITIONING CONTRACTORS NATIONAL ASSOCIATION, INC. (SMACNA) z. UNDERWRITERS' LABORATORIES (UL)

aa. U. S. DEPARTMENT OF ENERGY (DOE - ENERGY STAR PROGRAM)

bb. U. S. PRODUCTS STANDARDS (USPS)

ENGINEERING, AND IN ACCORDANCE WITH OBC CHAPTER 27, AND THE LATEST EDITION OF NFPA 70, NATIONAL ELECTRICAL CODE (NEC) INTERNATIONAL ELECTRICAL CODE, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES PERMITS (OTHER THAN PLANS APPROVAL / BUILDING PERMIT), SERVICE EQUIPMENT, CONDUITS, CONDUCTORS, DISTRIBUTION PANELS, DISCONNECTS, CIRCUIT BREAKERS, HANGERS AND SUPPORTS, LIGHT FIXTURES, DEVICES, DEVICE COVERS, BOXES, TEMPORARY POWER AND LIGHTING TO THE BUILDING, GROUNDING, CIRCUIT BREAKERS, SITE LIGHTING AND BASES AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE, FUNCTIONAL ELECTRICAL SYSTEM.

a. SLEEVES: FURNISH AND DIMENSIONALLY LOCATE FOR INSTALLATION BY GC. WEATHER-PROOFING THE EXTERIOR FACE OF EXTERIOR WALLS AT SLEEVES IS BY OTHERS;

SEALING THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS IS BY THE ELECTRICAL CONTRACTOR (EC). b. PROVIDE TEMPORARY WATERPROOFING OF PENETRATIONS THROUGH THE EXTERIOR WALLS AND

c. REFERENCE DIVISION OT OF THE GENERAL NOTES AND ELECTRICAL DRAWINGS FOR SEALANT d. REFERENCE DIVISION 33 OF THE GENERAL NOTES FOR UNDERGROUND UTILITIES REQUIREMENTS.

e. REFERENCE THE ELECTRICAL DRAWINGS FOR TECHNICAL SPECIFICATIONS AND OTHER INFORMATION PERTAINING TO THIS PROJECT. f. AS PART OF PROJECT CLOSE-OUT, CONDUCT TRAINING WITH THE OWNER OF INSTALLED EQUIPMENT.

2601. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION. a. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

b. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) c. AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE)

d. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) e. AMERICAN WELDING SOCIETY (AWS)

f. CANADIAN ENGINEERING STANDARDS ASSOCIATION (CSA) a. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC)

FEDERAL SPECIFICATIONS (FS) INTERNATIONAL CODE COUNCIL, INC. (ICC)

NATIONAL ELECTRICAL CODE (NEC) . NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

I. UNDERWRITERS' LABORATORIES (UL) m. U. S. DEPARTMENT OF ENERGY (DOE - ENERGY STAR PROGRAM)

n. U. S. PRODUCTS STANDARDS (USPS)

SEE McMULLEN ENGINEERING DRAWINGS FOR ADDITIONAL MEP SPECIFICATIONS AND INFORMATION. WHERE McMULLEN'S MEP REQUIREMENTS CONFLICT WITH THOSE FOUND ON THIS SHEET, IN ALL CASES THE MOST STRINGENT SHALL APPLY.

DIVISION 27 - COMMUNICATIONS

2700. PROVIDE CONDUITS, WALL AND FLOOR BOXES AND WIRING FOR COMMUNICATIONS AND DATA SYSTEMS AS SHOWN ON THE DRAWINGS PREPARED BY McMULLEN ENGINEERING. OWNER'S COMMUNICATIONS CONSULTANT TO PULL ALL WIRING

a. SLEEVES: FURNISH AND DIMENSIONALLY LOCATE FOR INSTALLATION BY OTHERS. I. WEATHER-PROOFING THE EXTERIOR FACE OF EXTERIOR WALLS AT SLEEVES IS BY OTHERS; SEALING THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS IS

b. PROVIDE TEMPORARY WATERPROOFING OF PENETRATIONS THROUGH EXTERIOR WALLS AND

c. REFERENCE DIVISION OT OF THE GENERAL NOTES AND THE ELECTRICAL DRAWINGS FOR SEALANT

d. REFERENCE DIVISION 33 OF THE GENERAL NOTES FOR UNDERGROUND UTILITIES REQUIREMENTS.

e. REFERENCE THE ELECTRICAL DRAWINGS FOR TECHNICAL SPECIFICATIONS AND OTHER GENERAL INFORMATION PERTAINING TO THIS PROJECT.

2701. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION.

a. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) b. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)

AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE)

d. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM)

e. AMERICAN WELDING SOCIETY (AMS)

F. CANADIAN ENGINEERING STANDARDS ASSOCIATION (CSA) q. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC)

. FEDERAL SPECIFICATIONS (FS) I. INTERNATIONAL CODE COUNCIL, INC. (ICC)

NATIONAL ELECTRICAL CODE (NEC)

. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) I. UNDERWRITERS' LABORATORIES (UL)

m. U. S. DEPARTMENT OF ENERGY (DOE - ENERGY STAR PROGRAM)

n. U. S. PRODUCTS STANDARDS (USPS)

2702. PROVIDE THE REQUIRED MATERIALS AND LABOR FOR THE INSTALLATION OF THE OWNER'S FURNISHED DATA COMMUNICATIONS, VOICE COMMUNICATIONS, AND IF REQUIRED, AUDIO-COMMUNICATIONS EQUIPMENT AS SHOWN ON THE DRAWINGS, AND IF NOT SHOWN AS REQUIRED BY THE OWNER'S

INFORMATION TECHNOLOGY EQUIPMENT SUPPLIER (ITES)/CONTRACTOR AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. a. CONSULT WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE OWNER'S

- ITES/CONTRACTOR PRIOR TO STARTING ANY WORK. b. COORDINATE COMMUNICATIONS WORK WITH OWNER, THE OWNER'S REPRESENTATIVE AND THE OWNER'S ITES/CONTRACTOR.

I. THE ITES/CONTRACTOR SHALL FURNISH COMMUNICATIONS EQUIPMENT SHOP DRAWINGS TO THE CONTRACTOR DESCRIBING AND DETAILING ALL REQUIRED WORK TO BE FURNISHED BY THE CONTRACTOR

c. FURNISH THE FOLLOWING, AS A MINIMUM, AS REQUIRED BY THE OWNER, OWNER'S REPRESENTATIVE, - AND OWNER'S ITES/CONTRACTOR:

- I. CUTTING AND PATCHING. 2. SOLID WOOD BLOCKING, CONCEALED OR NOT CONCEALED.

3. CHASES, RACEWAYS, OPENINGS, ETC. 4. ANCHORS, FASTENERS, PLATES, BOLTS, ETG. NOT FURNISHED BY THE BES.

5. MECHANICAL SYSTEMS. 6. ELECTRICAL SYSTEMS.

d. THE COMMUNICATIONS EQUIPMENT, DEVICES, CABLE/MIRING, ETC., WITH FINAL CONNECTIONS AND TESTING WILL BE PROVIDED BY THE ITES/CONTRACTOR.

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY

2800. FURNISH AND INSTALL COMPONENTS OF THE ELECTRONIC SAFETY AND SECURITY SYSTEMS AS CALLED FOR ON THE DRAWINGS PREPARED BY McMULLEN ENGINEERING AND ON THE ARCHITECT'S DOOR AND HARDWARE SCHEDULE, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLED SYSTEM. INCLUDE PANELS, BATTERIES, BOXES, CONDUIT, CONDUCTORS, DEVICES, CONTROLS, TERMINATIONS, HANGERS AND SUPPORTS, AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE, FUNCTIONAL SYSTEM IN ACCORDANCE WITH OHIO BUILDING CODE AND OWNER REQUIREMENTS. COORDINATE ALL WORK WITH THE OWNER'S SECURITY ACCESS CONSULTANT.

a. SLEEVES: FURNISH AND DIMENSIONALLY LOCATE FOR INSTALLATION BY OTHERS. I. WEATHER-PROOFING THE EXTERIOR FACE OF EXTERIOR WALLS AT SLEEVES IS BY GC;

SEALING THE INTERIOR FACE OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS IS BY THE EC.

PROVIDE TEMPORARY WATERPROOFING OF PENETRATIONS THROUGH EXTERIOR WALLS AND REFERENCE DIVISION OT OF THE GENERAL NOTES AND THE ELECTRICAL DRAWINGS FOR SEALANT

d. REFERENCE DIVISION 33 OF THE GENERAL NOTES FOR UNDERGROUND UTILITIES REQUIREMENTS.

e. REFERENCE THE ELECTRICAL DRAWINGS FOR TECHNICAL SPECIFICATIONS AND OTHER GENERAL INFORMATION PERTAINING TO THIS PROJECT.

2801. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION.

b. AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) c. AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE)

d. AMERICAN SOCIETY FOR TESTING MATERIALS (ASTM) e. AMERICAN WELDING SOCIETY (AWS)

a. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

F. CANADIAN ENGINEERING STANDARDS ASSOCIATION (CSA)

q. CONSUMER PRODUCTS SAFETY COMMISSION (CPSC) n. FEDERAL SPECIFICATIONS (FS)

INTERNATIONAL CODE COUNCIL, INC. (ICC)

NATIONAL ELECTRICAL CODE (NEC) . NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

UNDERWRITERS' LABORATORIES, INC. (UL)

m. U. S. DEPARTMENT OF ENERGY (DOE - ENERGY STAR PROGRAM)

n. U.S. PRODUCTS STANDARDS (USPS) 2802. PROVIDE THE REQUIRED MATERIALS AND LABOR FOR THE INSTALLATION OF THE OWNER'S

ELECTRONIC SAFETY AND SECURITY (ESS) EQUIPMENT AS SHOWN ON THE DRAWINGS, AND IF NOT SHOWN AS REQUIRED BY THE OWNER'S ELECTRONIC SAFETY AND SECURITY EQUIPMENT SUPPLIER (ESSES)/CONTRACTOR AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION:

a. CONSULT WITH THE OWNER OR THE OWNER'S REPRESENTATIVE AND THE OWNER'S ESSES/CONTRACTOR PRIOR TO STARTING ANY WORK.

b. GOORDINATE ESS WORK WITH OWNER, THE OWNER'S REPRESENTATIVE AND THE OWNER'S ESSES/CONTRACTOR.

I. THE ESSES/CONTRACTOR SHALL FURNISH ESS EQUIPMENT SHOP DRAWINGS TO THE CONTRACTOR DESCRIBING AND DETAILING ALL REQUIRED WORK TO BE FURNISHED BY THE CONTRACTOR.

c. FURNISH THE FOLLOWING, AS A MINIMUM, AS REQUIRED BY THE OWNER, OWNER'S REPRESENTATIVE,

AND OWNER'S ITES: - I. CUTTING AND PATCHING

2. SOLID WOOD BLOCKING, CONCEALED OR NOT CONCEALED. 3. CHASES, RACEWAYS, OPENINGS, ETC.

4. ANCHORS, FASTENERS, PLATES, BOLTS, ETC. NOT FURNISHED BY THE BES.

5. MECHANICAL SYSTEMS. 6. ELECTRICAL SYSTEMS.

d. THE ELECTRONIC SAFETY AND SECURITY EQUIPMENT, DEVICES, CABLE/MIRING, ETC. WITH FINAL - CONNECTIONS AND TESTING WILL BE PROVIDED BY THE ESSES/CONTRACTOR.

2803. FIRE ALARM SYSTEM

Installation

a. PROVIDE NEW FIRE ALARM SYSTEM AS SHOWN ON THE DRAWINGS PREPARED BY MCMULLEN ENGINEERING. INSTALL NEW DEVICES AND COMPONENTS AS INDICATED ON THE APPROVED SHOP DRAWINGS. WORK IS TO BE PERFORMED BY A CERTIFIED FIRE ALARM CONTRACTOR AS A PART OF THE ELECTRICAL CONTRACT. COORDINATE WORK BETWEEN THE FIRE ALARM CONTRACTOR & WORK OF OTHER TRADES PRIOR TO BEGINNING ANY WORK. ALL NEW DEVICES, EQUIPMENT, COMPONENTS, ETC. SHALL-BE COMPATIBLE WITH-

EXISTING SYSTEM AND SHALL MEET ALL APPLICABLE CODE REQUIREMENTS. b. CONSTRUCTION DOCUMENTS SHOWING DEVICES ARE FOR GENERAL SCOPE ONLY. FIRE ALARM CONTRACTOR SHALL PROVIDE AND SUBMIT FIRE ALARM SHOP DRAWINGS PREPARED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER OR A STATE FIRE MARSHALL CERTIFIED DESIGNER TO THE AUTHORITY HAVING JURISDICTION (AHJ) FOR PLAN APPROVAL, PAY ALL FEES FOR PLAN APPROVAL, PERMIT AND INSPECTIONS. FIRE ALARM CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL DEVICES AND COMPONENTS REQUIRED FOR A COMPLETE, FUNCTIONAL, AND APPROVED

ALARM SYSTEM MANUFACTURER UNDER THE APPROPRIATED CATEGORY BY THE UNDERWRITER'S ABORATORIES, INC. (UL), AND SHALL BEAR THE U.L. LABEL. ALL CONTROL EQUIPMENT SHALL BE LISTED UNDER UL CATEGORY UOUZ AS A SINGLE CONTROL UNIT. PARTIAL LISTING SHALL NOT BE ACCEPTABLE. e. In addition to the UL-UOJZ requirement listed above, the system controls shall be UL Listed FOR POWER LIMITED APPLICATIONS PER NEC 160. ALL CIRCUITS MUST BE MARKED IN ACCORDANCE WITH

d. EACH AND ALL ITEMS OF THE FIRE ALARM SYSTEM SHALL BE LISTED AS A PRODUCT OF A SINGLE FIRE

NEC ARTICLE 760-23. FI. FIRE ALARM INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE NEPA IOI LIFE SAFETY CODE, THE OHIO BUILDING CODE, ICC/ANSI AIIT.I, AND THE AH.J.

I. MAKE ALL SUBMITTALS, PAY ALL FEES, AND SECURE PLAN APPROVAL AND A PERMIT FROM THE AHJ.

COMPLETE WIRING INSTRUCTIONS AND DRAWINGS, PREPARED BY THE SYSTEM MANUFACTURER, SHALL BE INCLUDED IN THE SHOP DRAWING SUBMITTALS. h. ALL AIR HANDLING UNITS SHALL SHUT DOWN WHEN SMOKE IS DETECTED IN RETURN DUCT BY THE SMOKE DETECTORS, THIS SHALL BE ACCOMPLISHED BY WIRING THE MOTOR STARTER OR BUILT IN CONTROL

THROUGH CONTACTS. I. A FIRE ALARM PANEL (FAP) SHUT DOWN OF ASSOCIATED FAN POWERED VAV OR FAN COIL BOXES SHALL BE ACCOMPLISHED THROUGH TEMPERATURE CONTROL.

I. PROVIDE AND INSTALL DEVICES, EQUIPMENT, COMPONENTS, ETC. IN ACCORDANCE WITH THE SHOP DRAWINGS, ALL APPLICABLE CODES AND THE MANUFACTURER'S PRINTED INSTRUCTIONS. ALL WIRING SHALL BE INSTALLED IN STRICT COMPLIANCE WITH ALL THE PROVISIONS OF NEC - ARTICLE 760 A AND C. POWER-LIMITED FIRE PROTECTIVE SIGNALING CIRCUITS OR IF REQUIRED MAY BE RECLASSIFIED AS NON-POWER LIMITED AND WIRED IN ACCORDANCE WITH NEC-ARTICLE 760 A AND B. UPON COMPLETION, THE CONTRACTOR SHALL SO CERTIFY IN WRITING TO THE OWNER AND GENERAL CONTRACTOR, ALL JUNCTION BOXES SHALL BE SPRAYED RED AND LABELED "FIRE ALARM", WIRING COLOR CODE SHALL BE MAINTAINED THROUGHOUT THE INSTALLATION.

FIRE ALARM SYSTEM WIRING SHALL BE INSTALLED IN CONDUIT IN ANY LOCATION WHERE PHYSICAL PROTECTION IS REQUIRED AND AS DESCRIBED BELOW. ALL WIRING CONCEALED BY CONSTRUCTION MUST BE INSTALLED IN A NEAT AND ORDERLY MANNER, BUNDLED TOGETHER AND SHALL NOT BE ALLOWED TO COME INTO CONTACT WITH PIPING OR DUCTWORK, WHERE WIRING IS INSTALLED IN MAIN CORRIDORS IN AREAS 'B' AND 'C' ATTIG, IT SHALL BE ROUTED IN SUCH A WAY THAT IT WILL NOT BE VISIBLE AT PERIMETER GAPS OF FLOATING SUSPENDED CEILINGS. SUSCEPTIBLE TO DAMAGE BY ANYONE ACCESSING ATTIC

a) INSTALL IN CONDUIT WHEN:

I) IN MECHANICAL ROOMS AND GARAGES 2) IN BLOCK WALLS

3) ABOVE DRYWALL CEILINGS 4) EXPOSED BELOW 8 FEET 5) ALL INACCESSIBLE AREAS

3. INSTALLATION OF EQUIPMENT AND DEVICES THAT PERTAIN TO OTHER WORK IN THE CONTRACT SHALL BE CLOSELY COORDINATED WITH THE APPROPRIATE CONTRACTORS. 4. THE CONTRACTOR SHALL CLEAN ALL DIRT AND DEBRIS FROM THE INSIDE AND THE OUTSIDE OF THE

FIRE ALARM EQUIPMENT AFTER COMPLETION OF THE INSTALLATION. 5. THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE SHALL PROVIDE ON-SITE SUPERVISION OF INSTALLATION. 6. THE CONTRACTOR SHALL PROVIDE RELAYS AS NECESSARY FOR THE DOOR UNLOCKS ON EACH FLOOR

DRAWINGS, PRIOR TO ROUGH-IN OF FIRE ALARM SYSTEM, COORDINATE EXACT LOCATION WITH FIRE

AS REQUIRED. 7. THE CONTRACTOR SHALL PROVIDE TWO-GANGABLE BOXES FOR EACH PULL STATION SHOWN AS 8. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF "AS BUILT" DRAWINGS TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE DRAWINGS ARE TO SHOW ALL CONDUIT, DEVICES, WIRE, AND SIZES. 9. LOCATION OF FLOW SWITCHES AND TAMPER CONTACTS WILL VARY FROM THOSE SHOWN ON

SPRINKLER CONTRACTOR. TESTING I. A REPRESENTATIVE OF THE MANUFACTURER SHALL FIELD TEST SYSTEM IN ACCORDANCE NFPA-72H IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE, THE FIRE MARSHAL AND AN INSPECTOR FROM THE AUTHORITY HAVING JURISDICTION. UPON COMPLETION OF A SUCCESSFUL TEST, THE CONTRACTOR SHALL SO CERTIFY IN WRITING TO THE OWNER AND THE GENERAL CONTRACTOR.

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426 EAST MAIN STREET

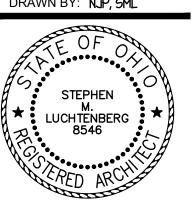
LANCASTER, OHIO 43130

(740) 654-4048

COMMISSION

ISSUE MARK DATE 5-5-22

DRAWN BY: NJP, SML



Stephen M. Luchtenberg License No. 8546 Expiration Date: December 31, 2023

GENERAL NOTES DIVISION 22 THROUGH DIVISION 28

- a. BACKFILL: SOIL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL USED TO FILL AN
- b. BASE COURSE: AGGREGATE LAYER PLACED BETWEEN SUBBASE COURSE AND ASPHALT PAVING. c. BEDDING COURSE: AGGREGATE LAYER PLACED OVER EXCAVATED SUBGRADE IN A TRENCH BEFORE
- d. BORROW SOIL: SATISFACTORY SOIL IMPORTED FROM OFF-SITE FOR USE AS FILL OR BACKFILL. e. ENGINEERED FILL: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED GRAVEL, CRUSHED STONE AND NATURAL OR CRUSHED SAND, WITH AT LEAST 90 PERCENT PASSING A I-I/2 INCH SIEVE AND NOT MORE THAN I2 PERCENT PASSING A NUMBER 200 SIEVE. f. DRAINAGE COURSE: AGGREGATE LAYER SUPPORTING THE SLAB-ON-GRADE THAT ALSO MINIMIZES
- UPWARD CAPILLARY FLOW OF PORE WATER. q. EXCAVATION: REMOVAL OF MATERIAL ENCOUNTERED ABOVE SUBGRADE ELEVATIONS AND TO LINES
- h. FILL: SOIL USED TO RAISE EXISTING GRADES.
- SUBBASE COURSE: AGGREGATE LAYER PLACED BETWEEN EXCAVATED SUBGRADE AND BASE COURSE AT ASPHALT PAVING OR PLACED BETWEEN EXCAVATED SUBGRADE AND CONCRETE
- SUBGRADE: UPPERMOST SURFACE OF AN EXCAVATION OR THE TOP SURFACE OF A FILL OR BACKFILL IMMEDIATELY BELOW SUBBASE, DRAINAGE FILL, DRAINAGE COURSE OR TOPSOIL
- k. Unauthorized excavation: Removal of Materials beyond indicated subgrade elevations OR INDICATED LINES AND DIMENSIONS WITHOUT WRITTEN AUTHORIZATION BY THE OWNER. PAYMENT WILL NOT BE MADE FOR UNAUTHORIZED EXCAVATION OR REMEDIAL WORK REQUIRED TO CORRECT UNAUTHORIZED EXCAVATION.
- I. AUTHORIZED ADDITIONAL EXCAVATION: REMOVAL OF ADDITIONAL MATERIAL AUTHORIZED BY THE CIVIL ENGINEER BASED ON THE DETERMINATION BY THE OWNER'S SOILS TESTING AGENCY THAT UNSUITABLE BEARING MATERIALS ARE ENCOUNTERED AT REQUIRED SUBGRADE ELEVATIONS. REMOVAL OF UNSUITABLE MATERIAL AND ITS REPLACEMENT AS DIRECTED WILL BE REIMBURSED
- PURSUANT TO THE CONTRACT DOCUMENTS. m., ROCK: ROCK MATERIAL IN BEDS, LEDGES, UNSTRATIFIED MASSES, CONGLOMERATE DEPOSITS AND BOULDERS OF ROCK MATERIAL THAT EXCEED I CUBIC YARD FOR BULK EXCAVATION AND 3/4 CUBIC YARD FOR FOOTING, TRENCH AND PIT EXCAVATION THAT CANNOT BE REMOVED BY ROCK
- EXCAVATING EQUIPMENT WITHOUT SYSTEMATIC DRILLING, RAM HAMMERING, RIPPING OR BLASTING. n. CONTAMINATED SOILS: SOIL THAT CONTAINS CONTAMINATES AS DEFINED AND DETERMINED BY THE CIVIL ENGINEER OR THE OWNER'S SOILS TESTING AGENCY. o. UNIT OF MEASURE: CUBIC YARD COMPUTED BY THE AVERAGE AREA METHOD FROM CROSS-SECTION
- TAKEN BEFORE AND AFTER EXCAVATION. p. UNSUITABLE MATERIALS I. FILL: TOPSOIL; FROZEN MATERIALS; CONSTRUCTION MATERIALS AND MATERIALS SUBJECT TO
- DECOMPOSITION; CLODS OF CLAY AND STONES LARGER THAN 3 INCHES; ORGANIC MATERIAL INCLUDING SILTS, WHICH ARE UNSTABLE; AND INORGANIC MATERIALS, INCLUDING SILTS, TOO WET TO BE STABLE AND ANY MATERIAL WITH A LIQUID LIMIT AND PLASTICITY INDEX EXCEEDING 40 AND IS RESPECTIVELY. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTAINED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPLETION.
- 2. EXISTING SUBGRADE (EXCEPT FOOTING SUBGRADE): MATERIALS THAT ARE NOT CAPABLE OF DIRECT SUPPORT OF SLABS, PAVEMENT AND SIMILAR ITEMS WITH POSSIBLE EXCEPTION OF IMPROVEMENT BY COMPACTION, PROOFROLLING OR SIMILAR METHODS. 3. EXISTING SUBGRADE (FOOTINGS ONLY): NO FILL OR BACKFILL.
- 3103. REFERENCES FOR MANUFACTURING, TESTING, AND INSTALLATION. USE ONLY THE MOST RECENT PUBLISHED/PRINTED STANDARDS.
- a. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) I. ICC/ANSI IIT.I, GUIDELINES FOR ACCESSIBLE AND USABLE BUILDING AND FACILITIES
- b. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) . OSHA 29 CFR 1926.650, EXCAVATION, SCOPE, APPLICATION AND DEFINITIONS
- 2. OSHA 29 CFR 1926.651, EXCAVATION, SPECIFIC EXCAVATION REQUIREMENTS
- 3. OSHA 29 CFR 1926.652, EXCAVATION, REQUIREMENTS FOR PROTECTIVE SYSTEMS c. OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
- I. ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS
- 2. ODOT ITEM IOI, DEFINITION AND TERMS
- 3. ODOT ITEM 201. CLEARING AND GRUBBING
- 4. ODOT ITEM 204, SUBGRADE COMPACTION AND PROOFROLLING 5. ODOT ITEM 304, AGGREGATE BASE
- d. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
- ASTM C778, STANDARD SPECIFICATION FOR STANDARD SAND 2. ASTM DI24I, STANDARD SPECIFICATION FOR MATERIALS SOIL-AGGREGATE SUBBASE, BASE
- 3. ASTM D2487, STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING
- 4. ASTM D2488, STANDARD PRACTICE FOR DESCRIPTION AND IDENTIFICATION OF SOILS (VISUAL-MANUAL PROCEDURE)
- 5. ASTM D2940, STANDARD SPECIFICATION FOR GRADED AGGREGATE MATERIAL FOR SUBBASES 6. ASTM D5268, STANDARD SPECIFICATION FOR TOPSOIL USED FOR LANDSCAPING PURPOSES
- 3104. MATERIAL
- a. SUBBASE COURSE: ASTM D2940; ITEM 304; NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF NATURAL OR CRUSHED STONE GRAVEL, CRUSHED STONE AND NATURAL OR CRUSHED SAND. b. DRAINAGE FILL: WASHED ODOT 103, EVENLY GRADED MIXTURE OF CRUSHED STONE, AGGREGATE GRADING SIZE 57 WITH 100 PERCENT PASSING A 1-1/2 SIEVE AND NOT MORE THAN 5 PERCENT
- PASSING A No. 8 SIEVE. c. GRANULAR FILL: ASTM D2940: ITEM 67: NATURALLY OR ARTIFICIALLY GRADED MIXTURE OF
- NATURAL CRUSHED STONE GRAVEL.
- d. SOIL FILL AND BACKFILL: ASTM D2487; CLASSIFICATION GW, GP, GM, SW, SP AND SM, ALONE OR IN COMBINATION; FREE OF ROCK LARGER THAN 2 INCHES DIAMETER, DEBRIS, WASTE, VEGETATION AND/OR OTHER DELETERIOUS MATERIAL
- e. TOPSOIL: UTILIZE EXISTING; AS REQUIRED, PROVIDE NEW FROM ACCEPTABLE OFF-SITE LOCATION.
- 3105. THOUGH THE COST OF SOILS AND BEARING TESTING IS THE RESPONSIBILITY OF THE OWNER, THE CONTRACTOR WILL BE REQUIRED TO COORDINATE WITNESSING AND TESTING WITH THE ACENCY
- 3106. FIELD DETERMINE AND VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS WHICH AFFECT ANY NEW CONSTRUCTION PRIOR TO THE START OF ANY WORK. IMMEDIATELY NOTIFY THE OWNER, THE OWNER'S REPRESENTATIVE, THE ARCHITECT, AND THE ENGINEER, IN WRITING, OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS; DO NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ALL DISCREPANCIES HAVE BEEN RESOLVED.
- 3101. WHERE LOOSE FILL MATERIALS ARE ENCOUNTERED, THE LOOSE MATERIALS SHALL BE OVER-EXCAVATED DOWN TO SUITABLE SOILS. THE OVER-EXCAVATED AREA SHALL THEN BE FILLED WITH SATISFACTORY SOIL MATERIALS WHICH WILL PRODUCE THE RESULTS OF COMPACTION AND LOAD CARRYING CAPACITY REQUIRED. THE FILL SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH SECTION 3100.

REQUIREMENTS OF THE OBC, OHIO EPA REGULATIONS AND OSHA REGULATIONS. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, PERMITS (OTHER THAN BUILDING PERMIT); SITE CLEARING; STRIPPING STOCKPILING AND REDISTRIBUTION OF TOPSOIL; CUT; FILL; DEWATERING; COMPACTION; PROOFROLLING; ROUGH AND FINISH GRADING; BACKFILL; DUST CONTROL; FOUNDATION EXCAVATION; PREPARATION OF

a. PROVIDE, MAINTAIN AND REMOVE, AT THE COMPLETION OF ALL WORK, SEDIMENT AND EROSION CONTROL MEASURES REQUIRED BY LOCAL JURISDICTION AND AND STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY (EPA) REGULATIONS.

SUBGRADES FOR FLEXIBLE AND RIGID PAYINGS AND ALL OTHER ITEMS AND INCIDENTALS AS

- b. PROTECT EXISTING TREES, SHRUBS AND OTHER LANDSCAPING ELEMENTS NOT BEING REMOVED AS DESIGNATED, AND IF NOT DESIGNATED, AS REQUIRED BY THE OWNER.
- c. PROVIDE OFF-SITE, LEGAL DISPOSAL OF ALL DEBRIS, EXCESS SOILS, NON-HAZARDOUS
- CONTAMINATED SOILS AND EXCESS TOPSOIL. d. Provide, Maintain and Remove, at the completion of concrete operations, a fully
- ENCAPSULATED COLLECTION AREA FOR CONCRETE TRUCK WASH-OUT. e. PROVIDE SOIL STABILIZATION/PROTECTION OF DISTURBED AREAS AND STOCKPILED SOILS AS
- REQUIRED BY LOCAL JURISDICTION AND OHIO EPA REGULATIONS. F. PRIOR TO ANY EXCAVATION WORK, LOCATE AND IDENTIFY EXISTING UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES IN THE WORK AREA. PROVIDE PROTECTION OF ALL UTILITIES SCHEDULED TO REMAIN
- a. FILLS AT FOUNDATIONS, THE BUILDING SLAB-ON-GRADE AND PAVED AREAS SHALL BE PLACED IN NO MORE THAN & INCH LIFTS AND POWER VIBRATOR COMPACTED TO 100 PERCENT OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD. DURING COMPACTION, MAINTAIN MOISTURE CONTENT NOT GREATER THAN 2 PERCENT ABOVE OR BELOW
- THE OPTIMUM MOISTURE CONTENT h. FILLS AT LAWNS AND UNPAYED AREAS SHALL BE PLACED IN NO MORE THAN 8 INCH LIFTS AND POWER VIBRATOR COMPACTED TO 90 PERCENT OF MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 STANDARD PROCTOR METHOD. DURING COMPACTION, MAINTAIN MOISTURE CONTENT NOT GREATER THAN 2 PERCENT ABOVE OR BELOW THE OPTIMUM MOISTURE CONTENT.
- I. AT THE COMPLETION OF ALL UNDERGROUND UTILITIES AND BACK-FILL OPERATIONS, PROVIDE ROUGH GRADING OF THE SITE THAT ESTABLISHES POSITIVE DRAINIAGE AWAY FROM THE BUILDING. CORRECT PONDING AS REQUIRED FOR THE DURATION OF THE PROJECT. THE COMPACTED SUBGRADE AND SUBBASE SHALL BE EXTENDED A MINIMUM IS INCHES AT THE
- k. COMPACTED AGGREGATE SUBBASE LIFT THICKNESS IS LIMITED TO 8 INCHES WHEN USING A VIBRATORY ROLLER WEIGHING MORE THAN 12 TONS, SIX INCHES WHEN THE VIBRATORY ROLLER WEIGHS BETWEEN IO AND 12 TONS AND 4 INCHES WHEN USING A PLATE COMPACTOR VERSUS A

EDGE OF PAVEMENTS AND A MINIMUM OF 6 INCHES BEYOND THE LAWN SIDE OF SIDEWALKS AND

- VIBRATORY ROLLER. I. AT THE COMPLETION OF CONCRETE PAVING, CURBING AND THE INTERMEDIATE LAYER OF ASPHALT PAVING, PROVIDE BACKFILL, FINISH GRADING AND REDISTRIBUTION OF TOPSOIL. THE SUBGRADES AT PLANTING (MINIMUM 12 INCHES DEPTH) AND LAWN AREAS (MINIMUM SIX INCHES DEPTH) ARE TO BE LOOSENED PRIOR TO THE PLACEMENT OF TOPSOIL. THE TOPSOIL SHALL BE REASONABLY FREE OF DEBRIS, ROOTS AND STONES AND DISTRIBUTED TO THE ELEVATIONS INDICATED ON THE DRAWINGS. CORRECT PONDING AS REQUIRED FOR THE DURATION OF THE PROJECT OR UNTIL SEEDING OPERATIONS HAVE STARTED.
- m. TOLERANCES
- VERIFY ROUGH GRADING SUBGRADE ELEVATION IS WITHIN ONE TENTH OF A FOOT. 2. AGGREGATE SUBBASE FOR PAVING AND SIDEWALKS SHALL BE 3/8 INCHES IN IO FEET.

DIVISION 32 - EXTERIOR IMPROVEMENTS

- 3200. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE GENERAL NOTES. a. CONCRETE MIX DESIGN; REFERENCE GENERAL NOTES SECTION 0300 FOR REQUIREMENTS
- b. ADMIXTURES

d. SEALER PRODUCT

- c. SEALANTS
- e. ACCESSIBLE PARKING SIGNAGE AND POSTS f. TRAFFIC SIGNAGE AND POSTS
- q. PAYEMENT MARKING PAINT
- 3201. REFERENCE THE SITE LAYOUT AND GRADING PLAN AND CIVIL ENGINEERING DRAWINGS FOR SPECIFIC REQUIREMENTS AND SPECIFICATIONS.

3202. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION

- a. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) I. ICC/ANSI IIT.I, GUIDELINES FOR ACCESSIBLE AND USABLE BUILDING AND FACILITIES
- b. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)
- I. OSHA 29 CFR 1926.650, EXCAVATION, SCOPE, APPLICATION AND DEFINITIONS 2. OSHA 29 CFR 1926.651, EXCAVATION, SPECIFIC EXCAVATION REQUIREMENTS 3. OSHA 29 CFR 1926.652, EXCAVATION, REQUIREMENTS FOR PROTECTIVE SYSTEMS
- c. AMERICAN ASSOCIATION OF STATE HIGHWAYS AND TRANSPORTATION (AASHTO) I. AASHTO M 154, STANDARD SPECIFICATION FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE 2. AASHTO M 248, STANDARD SPECIFICATION FOR READY-MIXED WHITE AND YELLOW TRAFFIC
- 3. AASHTO M 320, STANDARD SPECIFICATION FOR PERFORMANCE-GRADED ASPHALT BINDER d. OHIO DEPARTMENT OF TRANSPORTATION (ODOT)
- I. ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS 2. ODOT SUPPLEMENT SPECIFICATION 823, LIGHT TRAFFIC ASPHALT MIX COMPOSITION
- REQUIREMENTS 3. ODOT ITEM 253, PAVEMENT REPAIR
- 4. ODOT ITEM 401, ASPHALT CONCRETE PAVEMENTS GENERAL 5. ODOT ITEM 403, ASPHALT CONCRETE QUALITY CONTROL AND ACCEPTANCE
- 6. ODOT ITEM 409, SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS 7. ODOT ITEM 423, CRACK SEALING, HOT APPLIED
- 8. ODOT ITEM 441, CONTRACTOR MIX DESIGN AND QUALITY CONTROL GENERAL 9. ODOT ITEM 451, REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT
- IO. ODOT ITEM 452, NON-REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT II. ODOT ITEM 499, CONCRETE - GENERAL
- 12. ODOT ITEM 641, PAVEMENT MARKING GENERAL e. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- I. NEMA TC 2, STANDARD FOR ELECTRICAL POLYVINYL CHLORIDE (PVC) CONDUIT
- 2. NEMA TC 3, STANDARD FOR POLYVINYL CHLORIDE (PVC) FITTINGS FOR USE WITH RIGID PVC 3. NEMA WC 10, POWER CABLES RATED 2000 VOLTS OR LESS FOR THE DISTRIBUTION OF
- ELECTRICAL ENERGY f. UNDERWRITERS LABORATORY (UL)
- I. UL 467, GROUNDING AND BONDING EQUIPMENT 2. UL 514B, CONDUIT, TUBING AND CABLE FITTINGS
- 3. UL 651, STANDARD SCHEDULE 40 AND 80 RIGID PVC CONDUIT AND FITTINGS a. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- I. NFPA 70, NATIONAL ELECTRIC CODE
- h. AMERICAN CONCRETE INSTITUTE (ACI)
- I. ACI IIT, SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS
- 2. ACI 201, GUIDE TO DURABLE CONCRETE
- 3. ACI 212, REPORT ON CHEMICAL ADMIXTURES FOR CONCRETE 4. ACI 222R, PROTECTION OF METALS IN CONCRETE AGAINST CORROSION
- 5. ACI 224, JOINTS IN CONCRETE CONSTRUCTION
- 6. ACI 301, SPECIFICATION FOR STRUCTURAL CONCRETE 7. ACI 304R, GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE
- ACI 305R, GUIDE AND STANDARD SPECIFICATION FOR HOT WEATHER CONCRETING
- 9. ACI 306R, GUIDE AND STANDARD SPECIFICATION FOR COLD MEATHER CONCRETING
- 10. ACI 308, GUIDE FOR CURING CONCRETE
- II. ACI 308.I, SPECIFICATION FOR CURING CONCRETE 12. ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
- 13. ACI 34TR, GUIDE TO FORMWORK FOR CONCRETE
- i. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) I. CRSI, MANUAL OF STANDARD PRACTICE
- 2. CRSI, PLACING REINFORCING BARS
- AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) I. ASTM AI23, STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON
- 2. ASTM A615, STANDARD SPECIFICATION FOR DEFORMED AND PLAIN CARBON-STEEL BARS FOR
- CONCRETE REINFORCEMENT ASTM AIO64. STANDARD SPECIFICATION FOR CARBON-STEEL WIRE AND WELDED WIRE
- REINFORCEMENT, PLAIN AND DEFORMED, FOR CONCRETE 4. ASTM BI, STANDARD SPECIFICATION FOR HARD-DRAWN COPPER WIRE
- 5. ASTM B3. STANDARD SPECIFICATION FOR SOFT OR ANNEALED COPPER WIRE
- 6. ASTM B258, STANDARD SPECIFICATION FOR NOMINAL DIAMETERS AND CROSS-SECTIONAL
- AREAS OF AWG SIZES OF SOLID ROUND WIRES USED AS ELECTRICAL CONDUCTORS 7. ASTM C33, STANDARD SPECIFICATION FOR CONCRETE AGGREGATE
- 8. ASTM C94, STANDARD SPECIFICATION FOR READY-MIXED CONCRETE
- 9. ASTM CI50, STANDARD SPECIFICATION FOR PORTLAND CEMENT IO. ASTM CITI, STANDARD SPECIFICATION FOR SHEET MATERIALS FOR CURING CONCRETE
- II. ASTM C260, STANDARD SPECIFICATION FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE 12. ASTM C309, STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR CURING CONCRETE
- 13. ASTM C330, STANDARD SPECIFICATION FOR LIGHTWEIGHT AGGREGATES IN STRUCTURAL CONCRETE
- 14. ASTM C494, STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE 15. ASTM C618, STANDARD SPECIFICATION FOR COAL FLY ASH AND RAW OR CALCINED NATURAL POZZOLAN FOR USE IN CONCRETE
- 16. ASTM CTT8, STANDARD SPECIFICATION FOR STANDARD SAND
- 17. ASTM CI582, STANDARD SPECIFICATION FOR ADMIXTURES TO INHIBIT CHLORIDE-INDUCED CORROSION OF REINFORCING STEEL IN CONCRETE 18. ASTM C1602, STANDARD SPECIFICATION FOR MIXING WATER USED IN THE PRODUCTION OF
- HYDRAULIC CEMENT CONCRETE 19. ASTM D2301, STANDARD SPECIFICATION FOR VINYL CHLORIDE PLASTIC PRESSURE-SENSITIVE ELECTRICAL INSULATING TAPE
- 20.ASTM DI24I, STANDARD SPECIFICATION FOR MATERIALS SOIL-AGGREGATE SUBBASE, BASE AND SURFACE COURSES 21. ASTM D2487, STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING
- (VISUAL-MANUAL PROCEDURE) 23. ASTM D2564, STANDARD SPECIFICATION FOR SOLVENT CEMENTS FOR POLY VINYL CHLORIDE

22.ASTM D2488, STANDARD PRACTICE FOR DESCRIPTION AND IDENTIFICATION OF SOILS

- (PVC) PLASTIC PIPING SYSTEMS 24.ASTM D2855, STANDARD PRACTICE FOR MAKING SOLVENT-CEMENTED JOINTS WITH POLY VINYL
- CHLORIDE (PVC) PIPE AND FITTINGS 25. ASTM D2940, STANDARD SPECIFICATION FOR GRADED AGGREGATE MATERIAL FOR SUBBASES 26.ASTM D5268, STANDARD SPECIFICATION FOR TOPSOIL USED FOR LANDSCAPING PURPOSES
- 27. ASTM F512, STANDARD SPECIFICATION FOR SMOOTH-WALL POLY VINYL CHLORIDE (PVC) CONDUIT AND FITTINGS FOR UNDERGROUND INSTALLATION 28.ASTM F656, STANDARD SPECIFICATION FOR PRIMERS FOR USE IN SOLVENT CEMENT JOINTS
- POLY VINYL CHLORIDE (PVC), PLASTIC PIPE AND FITTINGS

- 3203. **PROVIDE ASPHALT PAVING** AS INDICATED ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION, AND IN ACCORDANCE WITH THE OHIO DEPARTMENT OF TRANSPORTATION'S (ODOT) CURRENT EDITION OF SPECIFICATIONS, DETAILS AND MATERIALS SPECIFICATIONS. INCLUDES SUBBASE, INTERMEDIATE COURSE, SURFACE COURSE, PRIME COAT, TACK COAT, PAVEMENT MARKING, BARRICADES FOR PROTECTION OF THE WORK AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED.
- a. MATERIAL, STANDARD WEIGHT ASSEMBLY I. AGGREGATE SUBBASE: ODOT ITEM 304; MINIMUM 6 INCHES THICK OR AS NOTED/SHOWN ON THE
- CIVIL ENGINEERING DRAWINGS.
- 2. PRIME COAT: ODOT ITEM 408; APPLIED AT A MINIMUM OF 0.25 GALLONS PER SQUARE YARD OR AS NOTED/SHOWN ON THE CIVIL ENGINEERING DRAWINGS.
- 3. INTERMEDIATE COURSE: ODOT ITEM 448, TYPE 2: MINIMUM 2-1/2 INCHES THICK OR AS
- NOTED/SHOWN ON THE CIVIL ENGINEERING DRAWINGS 4. TACK COAT: ODOT ITEM 407; PROVIDE BETWEEN THE INTERMEDIATE AND WEAR COURSES;
- APPLIED AT THE RATE PER ODOT SPECIFICATIONS. 5. SURFACE COURSE: ODOT ITEM 448, TYPE I; MINIMUM I-I/2 INCHES THICK OR AS NOTED/SHOWN ON THE CIVIL ENGINEERING DRAWINGS.
- 6. PAVEMENT MARKING PAINT: AASHTO M 248; TYPE 5, LEAD AND CHROMATE FREE; READY-MIXED ALKYD-RESIN 54 TO 62 PERCENT PIGMENT BY WEIGHT; VISCOSITY TO TO 90 AT 17 DEGREES F; WHITE FOR NON-ACCESSIBLE SPACES, BLUE FOR ACCESSIBLE SPACES; MINIMUM TOTAL DRY MIL
- EMULSIFIED CRACK SEALER: ASTM D6945; HOT APPLIED; NON-RECYCLED FIBER REINFORCED. b. MATERIAL, HEAVY DUTY ASSEMBLY I. AGGREGATE SUBBASE: ODOT ITEM 304; MINIMUM 6 INCHES THICK OR AS NOTED/SHOWN ON THE
- 2. PRIME COAT: ODOT ITEM 408; APPLIED AT A MINIMUM OF 0.25 GALLONS PER SQUARE YARD OR
- AS NOTED/SHOWN ON THE CIVIL ENGINEERING DRAWINGS 3. ASPHALT BASE COURSE: ODOT ITEM 301 OR 302; MINIMUM 5-1/2 INCHES THICK OR AS NOTED/SHOWN ON THE ENGINEERING DRAWINGS
- 4. TACK COAT: ODOT ITEM 407; PROVIDE BETWEEN THE INTERMEDIATE AND WEAR COURSES; APPLIED AT THE RATE PER ODOT SPECIFICATIONS
- 5. SURFACE COURSE: ODOT ITEM 404; MINIMUM I-I/2 INCHES THICK OR AS NOTED/SHOWN ON THE CIVIL ENGINEERING DRAWINGS.
- ALKYD-RESIN 54 TO 62 PERCENT PIGMENT BY WEIGHT; VISCOSITY 70 TO 90 AT 77 DEGREES F; WHITE FOR NON-ACCESSIBLE SPACES, BLUE FOR ACCESSIBLE SPACES; MINIMUM TOTAL DRY MIL
- EMULSIFIED GRACK SEALER: ASTM D6945, HOT APPLIED; NON-RECYCLED FIBER REINFORGED. c. PROVIDE CRACK SEAL MATERIAL, MINIMUM 4 INCHES WIDE, WHERE ASPHALT PAYING ABUTS DISSIMILAR MATERIAL SUCH AS, BUT NOT LIMITED TO, CURBING, CONCRETE APRONS, ETC. AND ASPHALT PAVING CONSTRUCTION JOINTS.
- d. Provide the accessible parking signage as shown on the site plan and indicated on SHEET ADA. INSTALLATION SHALL BE IN ACCORDANCE WITH ICC/ANSI AII7.I.
- e. PAVING SHALL BE EXTENDED A MINIMUM OF 6 INCHES BEYOND THE LAWN SIDE OF EXTRUDED
- f. THE USE OF RECYCLED ASPHALT MATERIAL IS AN ACCEPTABLE ALTERNATIVE IF APPROVED BY THE CIVIL ENGINEER AND ALL WORK IS PERFORMED IN ACCORDANCE WITH ODOT SPECIFICATIONS.. 3214. SIDEWALKS q. DO NOT PLACE THE SURFACE COURSE UNTIL ALL CONSTRUCTION TRAFFIC HAS CEASED ACCESS TO
- h. DURING TRANSPORT AND PLACEMENT, MAINTAIN THE TEMPERATURE OF ASPHALT MATERIAL PER
- ODOT SPECIFICATIONS. I. REFERENCE DIVISION 31 OF THE GENERAL NOTES AND CIVIL DRAWINGS FOR REQUIREMENTS
- PERTAINING TO THE PLACEMENT OF SUBBASE MATERIAL. J. INTERMEDIATE COARSE TOLERANCE (SMOOTHNESS): NOT EXCEEDING 1/4 INCHES IN 10 FEET TRANSVERSELY AND LONGITUDINALLY
- k. SURFACE COARSE TOLERANCE (SMOOTHNESS): NOT EXCEEDING I/8 INCH IN IO FEET TRANSVERSELY
- AND LONGITUDINALLY. I. THE SMOOTHNESS OF THE SURFACE COURSE SHALL BE IN COMPLIANCE WITH ODOT PROPOSAL NOTE
- 3204. PROVIDE SITE CONCRETE AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, SIDEWALKS, MANHOLE APRONS, EQUIPMENT AND OTHER SPECIALTY PADS, CURBING, SITE LIGHTING BASES, BOLLARD FOUNDATIONS AND FILL, TERMITE TREATMENT OF SOILS AND ALL OTHER ITEMS AND INCIDENTALS AS

3205. SITE CONCRETE a. VERIFY ALL REQUIREMENTS WITH THE INFORMATION INDICATED ON THE CIVIL ENGINEERING

2.44		
<u>CLASS</u> III -	LOCATION EQUIPMENT SLAB-ON-GRADE, SIDEWALK, PATIO, BOLLARD FILL, SITE LIGHTING BASE - ALL AIR ENTRAINED 5 TO 7 PERCENT	<u>f'c</u> 4,500 p.s.i.
QC 2	REFUSE ENCLOSURE SLAB-ON-GRADE REFUSE ENCLOSURE APRON	4,500 p.s.i.

- DRIVE APRON - ALL AIR ENTRAINED 6 PERCENT TO +/- 2 PERCENT b. THICKNESS AND REINFORCING AS INDICATED ON THE DRAWINGS.
- c. REFERENCE DIVISION 31 OF THE GENERAL NOTES AND CIVIL DRAWINGS FOR REQUIREMENTS PERTAINING TO THE PLACEMENT OF SUBBASE MATERIAL. d. MATERIAL
- I. VERIFY ALL REQUIREMENTS WITH THE INFORMATION INDICATED ON THE CIVIL ENGINEERING DRAWINGS AND THE STRUCTURAL DRAWINGS.
- 2. PORTLAND CEMENT: ASTM CI50, TYPE I. 3. PORTLAND CEMENT, HIGH EARLY STRENGTH: ASTM CI50, TYPE III. 4. GROUND GRANULATED BLAST FURNACE SLAG IN ACCORDANCE WITH ASTM C989; GRADE 100;

8. POTABLE WATER: ASTM CI602 AND TESTED IN ACCORDANCE WITH ASTM CI603; FRESH AND

5. COARSE AGGREGATES: ASTM C33; ODOT ITEM 103; FROM ONE SOURCE. 6. FLY ASH: ASTM C618; TYPE C; LIMITED TO 25 PERCENT OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIAL.

LIMITED TO 30 PERCENT OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIAL.

- FREE OF ACIDS, ALKALIS AND FOREIGN OR ORGANIC MATERIALS; MAXIMUM WATER TO CEMENT RATIO 0.45.
- 9. ADMIXTURES a) AIR ENTRAINING: ASTM C260; AASHTO M 154
- b) WATER-REDUCING: ASTM C494, TYPE A. c) RETARDING: ASTM C494, TYPE B.
- d) WATER-REDUCING ACCELERATOR: ASTM C494, TYPE E.

7. FINE AGGREGATES: ASTM C33: ODOT ITEM 703: FROM ONE SOURCE.

- e) WATER-REDUCING RETARDER: ASTM C494, TYPE D. f) WATER-REDUCING RETARDING HIGH RANGE ADMIXTURE: ASTM C494, TYPE G.
- a) WATER-REDUCING HIGH RANGE ADMIXTURE: ASTM C494, TYPE F. h) SET ACCELERATOR, CORROSION INHIBITING: ASTM C494, TYPE C.
- i) SUPER PLASTICIZER: ASTM C494, TYPE F. IO. ADMIXTURES SHALL CONTAIN CORROSION INHIBITORS AND BE USED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND SPECIFICATIONS.
- INDICATED ON THE CIVIL ENGINEERING DRAWINGS. THE CIVIL ENGINEERING DRAWINGS 13. BAR AND FABRIC SUPPORTS: BOLSTERS, CHAIRS, SPACERS AND OTHER DEVICES FOR

II. EPOXY-COATED WELDED STEEL WIRE FABRIC: PER ASTM AI85; SIZE AND LOCATION AS

ARE NOT ACCEPTABLE. COMPRESSION STRENGTH THAN THE CONCRETE. b) WHERE LEGS OF SUPPORTS ARE IN CONTACT WITH EARTH, PROVIDE SUPPORTS WITH LEGS

PAPERBOARD; INTERIOR COATED WITH DURAGLAS COATING; MOISTURE BARRIER EXTERIOR;

SPACING, SUPPORTING AND FASTENING REINFORCEMENT IN PLACE. STONES, BRICK AND WOOD

THAT ARE PROTECTED BY PLASTIC (CRSI, CLASS I) OR STAINLESS STEEL (CRSI, CLASS 2).

14. STEEL WIRE: ASTM A853. 15. EXPANSION AND ISOLATION JOINT FILLER: ASPHALT SATURATED CELLULOSIC FIBER IN COMPLIANCE WITH ASTM DI751; WITH REMOVABLE CAP FOR SEALANT PLACEMENT. 16. FORM, SITE LIGHTING BASE: ONE PIECE; SINGLE USE; MULTIPLE LAYER SPIRALLY WOUND

3206. SLUMP LIMITS: PROPORTION AND DESIGN MIXES TO RESULT IN CONCRETE SLUMP AT POINT OF

SONOTUBE FINISH FREE FORM OR APPROVED EQUAL. 17. SEALANT: REFERENCE DIVISION OT OF THE GENERAL NOTES. 18. SEALER: REFERENCE THIS DIVISION OF THE GENERAL NOTES.

3201. PROVIDE CONCRETE PUMPING IF REQUIRED FOR CONSTRUCTABILITY.

COMPLIANCE WITH ACI 347.

REINFORCEMENT.

- a. RIGID PAVING: MINIMUM ONE TO THREE INCHES, NOT MORE THAN FOUR INCHES. b. CURB: AS REQUIRED TO MAINTAIN SHAPE DURING CONCRETE PLACEMENT. c. ADDING WATER TO THE MIX IN ORDER TO CORRECT SLUMP IS PROHIBITED.
- IS REQUIRED TO COORDINATE WITNESSING AND TESTING WITH AGENCY APPROVED BY THE OWNER... PROVIDE TEST REPORT TO ARCHITECT. 3209. DESIGN, CONSTRUCT, ERECT, MAINTAIN AND REMOVE FORMS FOR CAST-IN-PLACE CONCRETE WORK IN

3208. THE COST OF CONCRETE TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR

a. CONSTRUCT FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF CORRECT SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION. MAINTAIN FORMMORK CONSTRUCTION TOLERANCES. b. COAT CONTACT SURFACES OF FORMWORK WITH FORM RELEASE AGENTS BEFORE PLACING

- 3210. UNLESS OTHERWISE SPECIFIED, INSTALL REINFORCING TO PROVIDE MINIMUM CONCRETE COVER AS
 - a. CONCRETE EXPOSED TO EARTH OR WEATHER
 - 2. OTHERS: TWO INCHES MINIMUM.

- PLANS. PROVIDE 'DIAMOND' PATTERN OF JOINTS AROUND EXTERIOR PIERS AS SHOWN ON SPACES BETWEEN TROWELED EDGES AND JOINTS ARE TO BE BROOM FINISHED AT 40 DEGREES
- 2.I. IN 4" SLABS, PROVIDE JOINTS AT MINIMUM & FEET, MAXIMUM IO FEET CENTER TO CENTER. 2.2. IN 6" SLABS, PROVIDE JOINTS AT MINIMUM 12 FEET, MAXIMUM 15 FEET CENTER TO CENTER;
- JOINT DEPTH I-I/2 INCHES.
- b. CONSTRUCTION JOINTS: LOCATE AT CONTRACTION JOINTS WHENEVER POSSIBLE, BUT NO CLOSER
- CONNECT POURS WITH 12" LONG #5 DOWELS AT 3'-O" C/C FOR ENTIRE LENGTH OF CONSTRUCTION JOINT. INSTALL CONSTRUCTION JOINT WHERE WORK IS SUSPENDED AT THE END OF EACH DAYS WORK OR WHEN THE POUR IS SUSPENDED FOR MORE THAN 30 MINUTES.
- EVERY 4 FEET CENTER TO CENTER ON RADIUSED SECTIONS. d. JOINTS IN CATCH BASINS AND MANHOLE APRONS: SAWCUT CONTRACTION JOINTS CORNER TO CORNER.
- NEEDED FOR A COMPLETE INSTALLATION, AND IN COMPLIANCE WITH LOCAL JURISDICTION REQUIREMENTS. 6. PAVEMENT MARKING PAINT: AASHTO M 246; TYPE 5, LEAD AND CHROMATE FREE; READY-MIXED
 - . AGGREGATE SUBBASE: ODOT ITEM 304; THICKNESS AS SHOWN ON CITY OF LANCASTER STD DWG. 3. REINFORCEMENT: ASTM A615, GRADE 60, SIZE AND SPACING AS INDICATED.
 - a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE GENERAL NOTES.
 - I. CONCRETE: ODOT ITEM 452; CLASS QC 2.
 - a. TOLERANCE: NOT EXCEEDING 1/4 INCHES BELOW A 10 FOOT STRAIGHTEDGE.
 - CONTRACTION JOINTS. CLASS B TOLERANCE
 - AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A GOMPLETE INSTALLATION, AND IN COMPLIANCE WITH LOCAL JURISDICTION REQUIREMENTS:
 - CONCRETE: DOT ITEM 451; CLASS QC 2; THICKNESS AS INDICATED.
 - 2. Accregate Subbase: odot Item 304; Thickness as Indicated. 3. REINFORGEMENT: WELDED WIRE FABRIC; SIZE AS INDICATED.
 - a) FURNISH SCHEDULE 40, GALVANIZED STEEL, SLEEVES FOR BOLLARDS.
 - d. Fence Steel color as selected by the owner from Manufacturer's Standard. e. VERIFY REQUIREMENT FOR SANITARY DRAIN.

I. V-SEAL CONCRETE SEALERS: 102

- CONCRETE SEALERS USA: PSIO2
- 3217. PROVIDE REINFORGED POLYVINYL CHLORIDE FENCE ENGLOSURE AND GATE ASSEMBLY AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION:
- a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE GENERAL NOTES.
- 2. RAIL: MINIMUM I-3/4 INCHES x 4 INCHES x 0.110 INCHES WALL THICKNESS.
- 5. DIAGONAL BRACING
- ENCLOSURE AND 6 INCHES OUTSIDE DIAMETER, SCHEDULE 40, GALVANIZED STEEL AT GENERATOR ENCLOSURE
- e. VINYL AND PAINT COLORS SELECTED BY OWNER FROM MANUFACTURER'S STANDARD. . Manufacturer: Superior Plastic Products, Inc., New Holland, Pa or Approved Equal.
 - THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. I. SIGN POST: U-CHANNEL; 2 POUNDS PER FOOT; HOT-DIP GALVANIZED; MINIMUM 3 INCHES WIDE BY
 - LETTERING; ENGINEER-GRADE REFLECTIVE SHEETING; PRE-PUNCHED HOLES FOR MOUNTING. 3. PARKING SIGN: TEXT "VAN ACCESSIBLE"; STEEL, MINIMUM 0.080 INCHES THICK; 12 INCHES BY 18
- PRE-PUNCHED HOLES FOR MOUNTING. 12. DEFORMED REINFORCING BARS: ASTM A615, GRADE 60; SIZE AND LOCATION AS INDICATED ON 3219. WHEEL STOP BLOCK: PRE-CAST CONCRETE; MINIMUM 5,000 PSI AT 28 DAYS; REINFORCED WITH 2 EACH
- GALVANIZED OR STAINLESS STEEL PINS AS RECOMMENDED BY MANUFACTURER. a) MANUFACTURED FROM STEEL, WIRE, PLASTIC OR PRECAST CONCRETE THAT IS OF GREATER 3220. PROVIDE SEEDING OF ALL AREAS DISTURBED BY CONSTRUCTION AND AS NOTED HEREIN, WITH
 - a. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, INDUSTRY STANDARD, PROFESSIONAL HORTICULTURAL AND ARBORICULTURAL PRACTICES, THE AMERICAN ASSOCIATION OF NURSERYMEN AND LOCAL EXTENSION OFFICE GUIDELINES APPLICABLE TO THE PROJECT AREA.
 - THROUGH TESTING, AND PRIOR TO THE START OF PLANTING OPERATIONS, VERIFY THE PH LEVEL OF THE SOILS SCHEDULED FOR SEEDING. TAKE THE NECESSARY STEPS REQUIRED TO CORRECT UNSUITABLE CONDITIONS.
 - STONES LARGER THAN ONE INCH DIAMETER, REMOVE ALL DEBRIS, STICKS, ROOTS, ETC. e. GRASS SEED: APPLY WITH SPREADER OR SEEDING MACHINE; DO NOT APPLY WHEN WINDS EXCEED FIVE MILES PER HOUR, MINIMUM THREE POUNDS PER 1,000 SQUARE FEET AT A RATE SUFFICIENT FOR PROPER COVERING AT THE TIME OF GERMINATION; RAKE LIGHTLY INTO TOP 1/8 INCH PORTION OF SOIL, LIGHTLY ROLL AND WATER WITH FINE SPRAY: PLACE STRAW MULCH OVER SEED.
 - a. WARRANTY: ONE COMPLETE GROWING SEASON.

REQUIREMENTS.

2. SEEDING FERTILIZER: COMMERCIAL GRADE: 5/10/5

- 1. No. 5 BARS AND SMALLER: 1-1/2 INCHES MINIMUM.
- I. PROVIDE JOINTS EQUALLY SPACED IN RECTANGULAR-SHAPED AREA PATIOS AND SIDEWALKS AS SHOWN ON THE ARCHITECTURAL PLANS. WHERE CONCRETE PATIO OR SIDEWALK HAS AN IRREGULAR-SHAPED PERIMETER, PROVIDE CONTROL JOINTS AS SHOWN ON ARCHITECTURAL ARCHITECTURAL PLANG... ALL CONTRACTION JOINTS ARE TO BE TROWEL FORMED WITH DEPTH EQUAL TO 25% OF SLAB THICKNESS. PROVIDE TROWELED EDGE AT PERIMETER OF SLAB. ALL
- 2.3. IN 8" SLABS, PROVIDE JOINTS AT MINIMUM 16 FEET, MAXIMUM 20 FEET CENTER TO CENTER;
- THAN IO FEET FROM LAST CONTRACTION JOINT IF LOCATED BETWEEN CONTRACTION JOINTS.
- a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE GENERAL NOTES. b. MATERIAL
- 3213. PROVIDE CONCRETE CURB AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR COMPLETE INSTALLATION.
- b. Material
- b. LONGITUDINAL AND TRANSVERSE SLOPES IN COMPLIANCE WITH ICC/ANSI AII7.I. c. BROOM FINISH OPPOSITE DIRECTION OF TRAVEL WITH TOOLED EDGES AND TROWELED
- 3215. PROVIDE OPAQUE REFUSE ENCLOSURE WITH CONCRETE APRON AND CENERATOR FENCE ENCLOSURE
- a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION OIAL OF THE GENERAL NOTES. b. MATERIAL, RIGID PAYING (REFERENCE THIS SPECIFICATION SECTION FOR SPECIFIC REQUIREMENTS)
- 5. STEEL BOLLARD: REFERENCE DIVISION 05 OF THE GENERAL NOTES.
- REFERENCE DRAWINGS FOR SPECIFIC REQUIREMENTS.
- RECOMMENDED BY THE MANUFACTURER. a. MANUFACTURERS
- 3. REUSE CONCRETE SEALING SPECIALISTS: SEALGREEN.
- MOUNTED TO STEEL POSTS SECURED TO RETAINING WALL AS DETAILED.
- PICKETS: MINIMUM I INCHES x 6 INCHES x 0.060 INCHES WALL THICKNESS.
- 3. POST SLEEVES: MINIMUM 4 INCHES x 4 INCHES x 0.110 INCHES WALL THICKNESS.
- 6. HINGES: HEAVY DUTY STAINLESS STEEL, COMPLETE POST WRAP TYPE 7. LOCKING HARDWARE
- b. DIAGONAL BRACING AS RECOMMENDED BY THE MANUFACTURER. c. ALL WELDED CONSTRUCTION
- 3218. **PROVIDE ACCESSIBLE PARKING SIGNAGE** AND CONCRETE STOP WHEEL STOP BLOCKS AS SHOWN ON
 - I-3/4 INCHES DEEP; PRE-PUNCHED MOUNTING HOLES 3/8 INCHES DIAMETER SPACED EVERY INCH FULL LENGTH OF THE POST. 2. PARKING SIGN: INTERNATIONAL SYMBOL OF ACCESSIBILITY PICTOGRAM OVER TEXT "PARKING";
- 4. PARKING SIGN: TEXT "\$250 FINE"; STEEL, SIZE AND THICKNESS AS INDICATED ON THE DRAWINGS; BLUE BACKGROUND WITH WHITE LETTERING; ENGINEER-GRADE REFLECTIVE SHEETING;
- COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION.
- b. MATERIAL I. TOPSOIL: REFERENCE DIVISION 31 OF THE GENERAL NOTES FOR SPECIFIC INFORMATION AND
- AND NOT MORE THAN 0.5 PERCENT WEED SEED, 40 PERCENT KENTUCKY BLUEGRASS, 40 PERCENT CREEPING RED FESCUE, 20 PERCENT ANNUAL RYEGRASS. 4. EROSION CONTROL BLANKETS: BIODEGRADABLE STRAW ENCLOSED IN A PHOTODEGRADABLE PLASTIC MESH, STAKED AT INTERVALS RECOMMENDED BY THE MANUFACTURER.
- d. PRIOR TO APPLICATION OF FERTILIZER, LOOSEN SUBGRADE A MINIMUM FOUR INCHES DEEP, REMOVE
- F. CONTRACTOR TO WATER SEEDED AREA DAILY AS NEEDED UNTIL SITE ACHIEVES 100% COVERAGE

APPROXIMATELY TWO TONS PER ACRE, BUT NO LESS THAN 1-1/2 INCH COVERING.

- 3211. JOINTS IN EXTERIOR SLABS ON GRADE a. CONTRACTION JOINTS
 - FROM DIRECTION OF TRAVEL 2. WHERE JOINT PATTERNS ARE NOT SHOWN ON ARCHITECTURAL PLANS:

 - c. JOINTS IN CONCRETE CURBS: SPACED EVERY 10 FEET CENTER TO CENTER ON STRAIGHT SECTIONS;
- PROVIDE DRIVE APRON AS SHOWN ON THE DRAWINGS AND AS NOTED HEREIN, WITH COMPONENTS AS
- I. GONGRETE: ODOT ITEM 452; GLASS QG 2; THICKNESS AS SHOWN ON GITY OF LANGASTER STD DWG
- 2. REINFORCEMENT, CONSTRUCTION JOINT: ASTM A615, GRADE 60; No. 4 DEFORMED REINFORCING BAR; MINIMUM 24 INCHES LONG.
- d. PROVIDE WHEELCHAIR ACCESSIBLE CURB RAMP WHERE CALLED FOR.

- 3216. AT ALL EXTERIOR CONCRETE PAVING, SIDEWALKS, PATIO, EQUIPMENT PADS AND CURBS, APPLY TRANSPARENT LIQUID SEALING COMPOUND FORMULATED WITH SILOCANATE. COVERAGE RATE AS

- 4. FENCE ENCLOSURE POSTS: 4x4 (NOM.) PRESERVATIVE TREATED, FOR IN-GROUND CONTACT,
- 8. GATE POSTS: 8 INCHES OUTSIDE DIAMETER, SCHEDULE 40, GALVANIZED STEEL AT REFUSE
- d. REINFORGE HINGE AND LATCH RAILS
- STEEL, THICKNESS AND SIZE AS INDICATED ON THE DRAWINGS; BLUE BACKGROUND WITH WHITE INCHES; BLUE BACKGROUND WITH WHITE LETTERING; ENGINEER-GRADE REFLECTIVE SHEETING; PRE-PUNCHED HOLES FOR MOUNTING.
- NO. 4, GRADE 60 REINFORGING BAR; TAPERED TOP CORNERS WITH RADIUS EDGES, MINIMUM 6 FEET LONG, 5 INCHES TALL AND 6 INCHES WIDE; PREFORMED HOLES FOR ANCHORING; ANCHOR WITH
- 3. GRASS SEED: NOT LESS THAN 45 PERCENT GERMINATION, NOT LESS THAN 85 PERCENT PURE SEED
- OF MIN 3" LONG GRASS.

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ISSUE MARK DATE 5-5-22

8546 Stephen M. Luchtenberg License No. 8546 Expiration Date: December 31, 2023 **GENERAL NOTES**

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DRAWN BY: NJP, SML STEPHEN

THROUGH **DIVISION 32**

DIVISION 31

3. PLANTING FERTILIZER: COMMERCIAL GRADE; 12/12/12

BALL AND TO PROMOTE DRAINAGE AWAY FROM THE ROOT BALL

4. SEEDING FERTILIZER: COMMERCIAL GRADE; 5/10/5

INCLUDE IN BID AN ALLOWANCE FOR TREE AND SHRUB PLANTINGS AS NOTED IN DIVISION OO OF

THESE GENERAL NOTES - TREES AND PLANTINGS TO BE SELECTED BY OWNER. AS SHOWN ON THE LANDSCAPE DESIGN DRAWINGS, AND AS NOTED HEREIN, IN ADDITION TO THE ALLOWANCE, THE

BIDDER'S BID IS TO INCLUDE ALL DELIVERY, HANDLING, AND INSTALLATION COSTS FOR SAID TREES

AND PLANTINGS WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. BID ALSO TO

INCLUDE PREPARATION OF PLANTING BEDS AT BUILDING AS SHOWN ON THE SITE LAYOUT PLAN,

RAKING, ROCK REMOVAL, LAWN SEEDING, FERTILIZERS, MULCHES, TREE WRAPPING AND STAKING,

PLANTINGS, SHRUBS, TREES, PH TESTING, PRUNING, TRIMMING AND ALL OTHER ITEMS, WORK AND

a. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS, INDUSTRY

STANDARD, PROFESSIONAL HORTICULTURAL AND ARBORICULTURAL PRACTICES, THE AMERICAN

ASSOCIATION OF NURSERYMEN AND LOCAL EXTENSION OFFICE GUIDELINES APPLICABLE TO THE

9. GRASS SEED: 40 PERCENT KENTUCKY BLUEGRASS, 40 PERCENT CREEPING RED FESCUE, 20

d. THROUGH TESTING, AND PRIOR TO THE START OF PLANTING OPERATIONS. VERIFY THE PH LEVEL OF

CONTAINER: CIRCULAR PLANTING PIT WITH SIDES SLOPING INWARD AT A 45 DEGREE ANGLE: TRIM

PERIMETER OF BOTTOM LEAVING CENTER AREA RAISED SLIGHTLY FOR SUPPORT OF THE ROOT

. TREE STABILIZATION: PROVIDE AT TREES WITH TWO INCHES TO FIVE INCHES CALIPER; USE FOR

WIND STABILIZATION FOR CALIPERS LESS THAN TWO INCHES; MINIMUM TWO STAKES FOR TREES UP

TO 12 FEET HIGH AND TWO INCHES OR LESS CALIPER; MINIMUM THREE STAKES FOR ALL OTHERS.

q. MULCH: MINIMUM THREE INCHES DEEP; MAINTAIN MINIMUM THREE INCHES CLEARANCE AROUND TREE

h. GRASS SEED: MINIMUM THREE POUNDS PER 1000 SQUARE FEET AT A RATE SUFFICIENT FOR

PROPER COVERING AT THE TIME OF GERMINATION; STRAW MULCH AS REQUIRED TO PROTECT

I. TREES AND SHRUBS SHALL BE FRESHLY DUG, WELL BRANCHED, DENSELY FOLIATED AND WELL

k. PLANTINGS, TREES AND SHRUBS SHALL BE NURSERY GROWN FROM STOCK THAT HAS PROVEN

I. PLANT SIZE, GRADING STANDARDS AND METHODS OF MEASUREMENT SHALL CONFORM TO THE

n. WARRANTY: ONE FULL GROWING SEASON FOR PLANTINGS; TWO FULL GROWING SEASONS FOR

a. INSTALL GALVANIZED AND VINYL COATED FENCING, MANUAL AND MOTORIZED GATES, ALL IN

b. SUBMIT COMPLETE LISTING OF PROPOSED FENCING MATERIALS AND SITE PLAN ILLUSTRATING

c. CONTRACTOR IS TO COORDINATE FENCE POST FOUNDATION LOCATIONS SO AS TO NOT

d. PROVIDE MANUAL SWING GATES AND MOTOR OPERATED ROLLING GATE-IN SIZES AND

DISTURB UNDERGROUND UTILITIES OR BUILDING STRUCTURAL FOUNDATIONS.

I. PROVIDE DROP PIN CANE BOLTS AT EACH SWINGING GATE LEAF.

COMPLETELY THROUGH SURFACE FOR DRAINAGE.

2. LINE POSTS UP TO 8' HEIGHT - 2 3/8" O.D., DQ 40 GA., GALV

4. TOP, MID AND BOTTOM RAILS- I 5/8" O.D., DQ 40 GA. GALV.

3. LINE POSTS AT 16' HEIGHT - 3" O.C., DQ 40 GA., GALV

5.1. TENSILE STRENGTH PER FEDERAL SPEC RR-F-191

5.2. HOT ZINC GALVANIZING PER ASTM B6

1.2. PVC ADHESION PER ASTM F668, CLASS 2A

1.3. COLOR TO BE GREEN, ASTM F934

CHAIN LINK FENCE - MOTOR OPERATED ROLLING GATE

3. SEE ELECTRICAL DWGS FOR DISCONNECT SWITCH

c. PRODUCT - DOOR KING SERIES 9000, OR APPROVED EQUAL.

e. MATERIALS - TYPICAL FOR PVC COATED AND NON-PVC COATED (UNO):

FOUNDATION SIZES AND FENCING HEIGHTS NOTED ON THE DRAWINGS, AND ALL ACCESSORIES

FENCE POST LAYOUT WITH LINE POLES AT MAX 8' O.C. FOR ARCHITECT'S REVIEW PRIOR TO

3" O.C., DQ 40 GA., GALV

5. FABRIC - 2" DIAMOND MESH, 9 GA., O.148 DIAMETER COATED WIRE, ASTM A 392 CLASS I

5.3. AT FENCING THAT RECEIVES A CORRUGATED PIPE COVER ON THE TOP RAIL (SEE

a. MOTORIZED GATE OPERATOR TO BE 1/2 HP, BELT DRIVEN, GAPABLE OF OPENING AND GLOSING

AT THE COMPLETION OF PAVING, FENCING, SITE LIGHTING AND SEEDING OPERATIONS, BUT NO EARLIER

THAN ONE DAY PRIOR TO OWNER TURN-OVER, CLEAN THE SITE OF ALL DEBRIS AND MEDIUM

6. PROVIDE GALVANIZED FITTINGS (PVG COATED AT PVG COATED FENCING) AND

7.4. IS YEAR WARRANTY AGAINST FAILURE DO TO RUST OR CORROSION

ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.

8. SEE DRAWINGS FOR ALL CONCRETE PIER FOUNDATION DETAILS.

I. CONTROL SWITCHES IN CONCESSIONS ROOM PER ELECT PLANS

9. MANUFACTURER: MASTER HALCO, ON GUARD, OR APPROVED EQUAL.

HOT DIP, SELF HEALING, ZINC GALVANIZING AFTER FABRIC IS WOVEN. 15 YEAR WARRANTY.

PLANS FOR LOCATIONS), PROVIDE KNUCKLED TOP AND BOTTOM SELVAGE. AT ALL

OTHER FENCING. PROVIDE TWISTED TOP SELVAGE AND KNUCKLED BOTTOM SELVAGE.

CORE DRILL HOLES IN ASPHALT OR CONCRETE SURFACE AS REQUIRED. DRILL HOLES

AMERICAN STANDARD OF NURSERY STOCK BY THE AMERICAN STANDARD OF NURSERYMEN.

m. ALL LANDSCAPING WORK SHALL BE MAINTAINED UNTIL ACCEPTANCE BY THE ARCHITECT AND THE

HARDY TO THE LOCATION OF THIS PROJECT AND SHALL HAVE BEEN GROWN UNDER SIMILAR

I. PLANTINGS SHALL BE HEALTHY, SOUND, VIGOROUS, FREE FORM DISEASE AND INSECTS AND HAVE

.. REFERENCE DIVISION 31 OF THE GENERAL NOTES FOR SPECIFIC REQUIREMENTS PERTAINING TO

EACH PLANTING AREA. TAKE THE NECESSARY STEPS REQUIRED TO CORRECT UNSUITABLE

e. TREE AND SHRUB PLANTING: EXCAVATE MINIMUM THREE TIMES THE DIAMETER OF THE BALL OR

3221. LANDSCAPING

INCIDENTALS AS REQUIRED.

I. INORGANIC SOIL AMENDMENTS

2. ORGANIC SOIL AMENDMENTS

6. WEED CONTROL BARRIER

8. TREE STAKES AND GUYS.

PLANTING BED PREPARATION.

TRUNKS AND SHRUB STEMS.

TREES AND SHRUBS.

3222. CHAIN LINK FENCING

HEALTHY, WELL DEVELOPED ROOT SYSTEMS.

CLIMATIC CONDITIONS AS THIS PROJECT.

REQUIRED FOR COMPLETE FENCING SYSTEM.

LOCATIONS AS SHOWN ON DRAWINGS.

I. CORNER POSTS -

7. PVC COATING ON FENCING:

7.I. :025 INCH THICK

MAX 1000 LB GATE.

FINAL SITE CLEANING

2. MOUNT OPERATOR TO GATE.

b. INSTALL PER MFR'S WRITTEN INSTRUCTIONS.

PRESSURE POWER WASH PAVEMENTS AND SIDEWALKS.

PERCENT ANNUAL RYEGRASS.

PROJECT AREA. b. MATERIALS

5. MULCH

CONDITIONS

7. HERBICIDE

DIVISION 40 THROUGH 48 - NO REQUIREMENTS

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Expiration Date: December 31, 2023 **GENERAL NOTES DIVISION 32 THROUGH DIVISION 48**

DIVISION 33 - SITE UTILITIES 3300. PROVIDE SITE UTILITIES AS INDICATED ON THE SITE LAYOUT AND -CIVIL AND ELECTRICAL INSTALLATION. THIS INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, DOMESTIC POTABLE WATER,

a. PROVIDE SUBMITTAL IN ACCORDANCE WITH SECTION 0141 OF THE TECHNICAL SPECIFICATIONS. I. CONDUITS, FITTINGS

2. PIPE, FITTINGS

3. CATCH BASIN AND GRATE 4. VALVES AND VALVE BOXES

5. STANDARD MANHOLES 6. WATER QUALITY MANHOLE b. TRENCH EXCAVATION SHALL BE IN STRICT COMPLIANCE WITH OSHA REGULATIONS.

MANUFACTURER'S WRITTEN INSTRUCTIONS, DETAILS AND SPECIFICATIONS. d. PROVIDE CONTINUOUS DETECTABLE WARNING DEVICES (TAPE, WIRE, ETC.) OF UNDERGROUND UTILITIES DURING BACKFILL OPERATIONS; POLYETHYLENE FILM THAT IS ACID AND ALKALI RESISTANT, MINIMUM 6 INCHES WIDE, COLOR PER UTILITY BEING BURIED.

c. INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS AND

THE PAYMENT OF ALL UTILITY TAP FEES IS THE RESPONSIBILITY OF THE CONTRACTOR.

3302. REFERENCES FOR MANUFACTURING, TESTING AND INSTALLATION

a. INTERNATIONAL CODE COUNCIL/AMERICAN NATIONAL STANDARDS INSTITUTE (ICC/ANSI) I. ICC/ANSI II7.I, GUIDELINES FOR ACCESSIBLE AND USABLE BUILDING AND FACILITIES b. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

I. OSHA 29 CFR 1926.650, EXCAVATION, SCOPE, APPLICATION AND DEFINITIONS 2. OSHA 29 CFR 1926.651, EXCAVATION, SPECIFIC EXCAVATION REQUIREMENTS 3. OSHA 29 CFR 1926.652, EXCAVATION, REQUIREMENTS FOR PROTECTIVE SYSTEMS :. AMERICAN ASSOCIATION OF STATE HIGHWAYS AND TRANSPORTATION (AASHTO) I. AASHTO M248, STANDARD SPECIFICATION FOR READY-MIXED WHITE AND YELLOW TRAFFIC

2. AASHTO M320, STANDARD SPECIFICATION FOR PERFORMANCE-GRADED ASPHALT BINDER d. OHIO DEPARTMENT OF TRANSPORTATION (ODOT)

I. ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS 2. ODOT SUPPLEMENT SPECIFICATION 823, LIGHT TRAFFIC ASPHALT MIX COMPOSITION REQUIREMENTS

3. ODOT ITEM 253, PAVEMENT REPAIR 4. ODOT ITEM 441, CONTRACTOR MIX DESIGN AND QUALITY CONTROL - GENERAL e. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) I. NEMA TC 2, STANDARD FOR ELECTRICAL POLYVINYL CHLORIDE (PVC) CONDUIT

2. NEMA TC 3, STANDARD FOR POLYVINYL CHLORIDE (PVC) FITTINGS FOR USE WITH RIGID PVC CONDUIT AND TUBING

3. NEMA WC 10, POWER CABLES RATED 2000 VOLTS OR LESS FOR THE DISTRIBUTION OF ELECTRICAL ENERGY . UNDERWRITERS LABORATORY (UL)

I. UL 467, GROUNDING AND BONDING EQUIPMENT 2. UL 514B, CONDUIT, TUBING AND CABLE FITTINGS

3. UL 651, STANDARD SCHEDULE 40 AND 80 RIGID PVC CONDUIT AND FITTINGS

q. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) I. NFPA 70, NATIONAL ELECTRIC CODE

h. AMERICAN CONCRETE INSTITUTE (ACI) I. ACI IIT, SPECIFICATION FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS 2. ACI 201, GUIDE TO DURABLE CONCRETE

3. ACI 212, REPORT ON CHEMICAL ADMIXTURES FOR CONCRETE 4. ACI 222R, PROTECTION OF METALS IN CONCRETE AGAINST CORROSION

5. ACI 224, JOINTS IN CONCRETE CONSTRUCTION 6. ACI 301, SPECIFICATION FOR STRUCTURAL CONCRETE

7. ACI 304R, GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE 8. ACI 305R, GUIDE AND STANDARD SPECIFICATION FOR HOT WEATHER CONCRETING 9. ACI 306R, GUIDE AND STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING

10. ACI 308, GUIDE FOR CURING CONCRETE II. ACI 308.1, SPECIFICATION FOR CURING CONCRETE 12. ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE

13. ACI 34TR, GUIDE TO FORMWORK FOR CONCRETE

I. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) CRSI, MANUAL OF STANDARD PRACTICE 2. CRSI, PLACING REINFORCING BARS

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM AI23, STANDARD SPECIFICATION FOR ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON

AND STEEL PRODUCTS 2. ASTM A615, STANDARD SPECIFICATION FOR DEFORMED AND PLAIN CARBON-STEEL BARS FOR

3. ASTM AIO64, STANDARD SPECIFICATION FOR CARBON-STEEL WIRE AND WELDED WIRE REINFORCEMENT, PLAIN AND DEFORMED, FOR CONCRETE

4. ASTM BI, STANDARD SPECIFICATION FOR HARD-DRAWN COPPER WIRE 5. ASTM B3, STANDARD SPECIFICATION FOR SOFT OR ANNEALED COPPER WIRE 6. ASTM B258, STANDARD SPECIFICATION FOR NOMINAL DIAMETERS AND CROSS-SECTIONAL

AREAS OF AWG SIZES OF SOLID ROUND WIRES USED AS ELECTRICAL CONDUCTORS 7. ASTM C33, STANDARD SPECIFICATION FOR CONCRETE AGGREGATE

8. ASTM C94, STANDARD SPECIFICATION FOR READY-MIXED CONCRETE 9. ASTM CI50, STANDARD SPECIFICATION FOR PORTLAND CEMENT

IO. ASTM CITIL STANDARD SPECIFICATION FOR SHEET MATERIALS FOR CURING CONCRETE II. ASTM C309, STANDARD SPECIFICATION FOR LIQUID MEMBRANE-FORMING COMPOUNDS FOR

12. ASTM C330, STANDARD SPECIFICATION FOR LIGHTWEIGHT AGGREGATES IN STRUCTURAL CONCRETE 13. ASTM C494, STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE

14. ASTM C778, STANDARD SPECIFICATION FOR STANDARD SAND 17. ASTM CI582, STANDARD SPECIFICATION FOR ADMIXTURES TO INHIBIT CHLORIDE-INDUCED CORROSION OF REINFORCING STEEL IN CONCRETE

18. ASTM C1602, STANDARD SPECIFICATION FOR MIXING WATER USED IN THE PRODUCTION OF HYDRAULIC CEMENT CONCRETE

19. ASTM D2301, STANDARD SPECIFICATION FOR VINYL CHLORIDE PLASTIC PRESSURE-SENSITIVE ELECTRICAL INSULATING TAPE 20.ASTM DI24I, STANDARD SPECIFICATION FOR MATERIALS SOIL-AGGREGATE SUBBASE, BASE

AND SURFACE COURSES 21. ASTM DIT84, STANDARD SPECIFICATION FOR RIGID POLY VINYL CHLORIDE (PVC) COMPOUNDS

AND CHLORINATED POLY VINYL CHLORIDE (CPVC) COMPOUNDS 22.ASTM D2487, STANDARD PRACTICE FOR CLASSIFICATION OF SOILS FOR ENGINEERING

23. ASTM D2488, STANDARD PRACTICE FOR DESCRIPTION AND IDENTIFICATION OF SOILS (VISUAL-MANUAL PROCEDURE)

24.ASTM D2564, STANDARD SPECIFICATION FOR SOLVENT CEMENTS FOR POLY VINYL CHLORIDE (PVC) PLASTIC PIPING SYSTEMS 25. ASTM D2855, STANDARD PRACTICE FOR MAKING SOLVENT-CEMENTED JOINTS WITH POLY VINYL

CHLORIDE (PVC) PIPE AND FITTINGS 26.ASTM D2940, STANDARD SPECIFICATION FOR GRADED AGGREGATE MATERIAL FOR SUBBASES 27. ASTM D3034, STANDARD SPECIFICATION FOR TYPE PSM POLY VINYL CHLORIDE (PVC) SEWER PIPE AND FITTINGS

28.ASTM D5268, STANDARD SPECIFICATION FOR TOPSOIL USED FOR LANDSCAPING PURPOSES 29. ASTM F512, STANDARD SPECIFICATION FOR SMOOTH-WALL POLY VINYL CHLORIDE (PVC)

CONDUIT AND FITTINGS FOR UNDERGROUND INSTALLATION 30.ASTM F656, STANDARD SPECIFICATION FOR PRIMERS FOR USE IN SOLVENT CEMENT JOINTS POLY VINYL CHLORIDE (PVC), PLASTIC PIPE AND FITTINGS

31. ASTM F1336, STANDARD SPECIFICATION FOR POLY VINYL CHLORIDE (PVC) GASKETED SEWER

3303. ALL PIPING, CONDUITS AND THEIR SPECIALTIES SHALL BEAR PERMANENT MARKING OF SIZE, TYPE, APPROVED TESTING AGENCY, ETC.

3304. PROVIDE THE DOMESTIC FIRE PROTECTION WATER SERVICE TO WITHIN 5' OF BUILDING AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO METER, PIPING, FITTINGS, STERILIZATION, FINAL CONNECTIONS, PRESSURE TESTING, VALVES, BACKFLOW PREVENTER, VALVE BOXES, BACKFLOW PREVENTER PIT (IF APPLICABLE) AND ALL OTHER ITEMS AND INCIDENTALS AS REQUIRED. COMPLY WITH THE LOCAL HEALTH DEPARTMENT REQUIREMENTS FOR MATERIALS. METHODS INSTALLATION, TESTING AND STERILIZATION. DISTURB MINIMAL AMOUNT OF WALNUT STREET AS NEGESSARY, AND BORE UNDER EXISTING CURB AND STREET SIDEMALK TO TRENCH IN LAWN SOUTH OF SIDEWALK, RESTORE STREET PAVING TO ORIGINAL CONDITION PER CITY OF LANGASTER SPECS. a. COMPLY WITH THE STANDARDS AND REQUIREMENTS OF THE UTILITY PROVIDER SUPPLYING

— DOMESTIC POTABLE WATER. b. WATER SERVICE PIPING MATERIALS, FITTINGS, VALVES, ETG, SHALL CONFORM TO THE REQUIREMENTS OF NSF 61 AND THE STANDARDS LISTED IN THE OHIO PLUMBING CODE (OPC) — SECTION 605.

c. REFERENCE THE DRAWINGS FOR GENERAL NOTES AND OTHER INFORMATION PERTAINING TO THIS

d. REFERENCE DIVISION 31 OF THE GENERAL NOTES FOR REQUIREMENTS.

ITEMS AND INCIDENTALS AS REQUIRED FOR A COMPLETE SYSTEM. a. COMPLY WITH THE REQUIREMENTS OF THE UTILITY PROVIDER FOR SANITARY SEWER SYSTEMS:

c. SANITARY SEMER MATERIALS AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF OPC CHAPTER 1 d. REFERENCE THE DRAWINGS FOR GENERAL NOTES AND OTHER INFORMATION PERTAINING TO THIS

e. REFERENCE DIVISION 31 OF THE GENERAL NOTES FOR REQUIREMENTS.

a. REFERENCE THE DRAWINGS FOR GENERAL NOTES AND OTHER INFORMATION PERTAINING TO THIS b. REFERENCE DIVISION 31 OF THE GENERAL NOTES FOR REQUIREMENTS.

INSTRUCTIONS d. AT THE COMPLETION OF THE WORK, BUT PRIOR TO FINAL CONNECTIONS, WATER FLUSH-OUT ALL

I. MATERIALS

e. PROVIDE TRACER WIRE ATTACHED TO PIPING.

3301. PROVIDE THE UNDERGROUND NATURAL GAS SYSTEM TO THE RISER LOCATED OUTSIDE THE BUILDING AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION: INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, PIPING, METER, REGULATOR, VALVES AND SPECIALTIES OUTSIDE THE BUILDING FOR NATURAL GAS SERVICE. a. CONFORM TO ALL REQUIREMENTS OF THE UTILITY PROVIDER, OPG, AND THE INTERNATIONAL FUEL GAS CODE FOR MATERIALS, METHODS, INSTALLATION AND TESTING.

FOR MATERIALS, INSTALLATION, TESTING, INSPECTION AND PURGING. c. REFERENCE THE DRAWINGS FOR GENERAL NOTES AND OTHER INFORMATION PERTAINING TO THIS

d. REFERENCE DIVISION 31 OF GENERAL NOTES FOR REQUIREMENTS.

3308. FURNISH THE UNDERGROUND ELECTRICAL SERVICE AS SHOWN ON THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, THE UNDERGROUND-BRANCH-ELECTRICAL SERVICES TO SITE COMPONENTS; THE UNDERGROUND COMMUNICATIONS, INTERNET AND CABLE TELEVISION SERVICES.

a. COMPLY WITH THE REQUIREMENTS OF THE NFPA 70, NATIONAL ELECTRICAL CODE (NEC), AND THE UTILITY PROVIDER. b. COMPLY WITH THE STANDARDS OF THE UTILITY PROVIDER FOR CONDUIT / PIPING, INCLUDING

c. CONDUITS AND CONDUIT SPECIALTIES MATERIALS SHALL THE BEAR LABEL, STAMP, OR OTHER

INSTRUCTIONS.

ENGINEERING SITE DRAWING AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE

SANITARY SEMER, STORM SEMER, NATURAL GAS, ELECTRICAL SERVICE, SITE LIGHTING AND CONDUITS (WITH PULL ROPES) FOR ELECTRIC, DATA AND COMMUNICATIONS SERVICES.

3305. PROVIDE NEW BUILDING SANITARY SYSTEM TIE-IN TO THE EXISTING THE GRAVITY-FLOW BUILDING SANITARY SEWER DRAINAGE SYSTEM AS SHOWN THE DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, PIPING, FITTINGS, GLEAN-OUTS, PRESSURE TESTING, FINAL CONNECTIONS AND ALL OTHER

b. COMPLY WITH THE STANDARDS OF THE UTILITY PROVIDER AND THE LOCAL HEALTH DEPARTMENT

FOR MATERIALS, METHODS INSTALLATION AND TESTING.

F. VERIFY THE REQUIREMENT FOR DRAIN AT THE TRASH ENCLOSURE.

3306, PROVIDE THE GRAVITY FLOW, NON-PRESSURIZED STORM DRAINAGE SYSTEM AS SHOWN ON THE ARCHITECTURAL AND GIVIL ENGINEERING DRAWINGS, AND AS NOTED HEREIN, WITH COMPONENTS AS NEEDED FOR A COMPLETE INSTALLATION. INCLUDES, BUT IS NOT NECESSARILY LIMITED TO, UNDERGROUND DRAINAGE SYSTEM FOR DOWNSPOUTS, PRECAST CONCRETE STRUCTURES, GRATES, PIPING, FITTINGS, FINAL CONNECTIONS AND ALL OTHER ITEMS AND INCIDENTALS REQUIRED FOR A COMPLETE SYSTEM IN COMPLIANCE WITH AGENCIES HAVING JURISDICTION.

c. ASSEMBLE AND INSTALL COMPONENTS ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION

LINES AND CATCH BASINS. e. DOWNSPOUT DRAINAGE SYSTEM

> a) POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS: SDR 35; SIZED, PLUS 20 PERCENT, TO ACCOMMODATE THE VOLUME OF WATER RUN-OFF FROM ROOF STRUCTURES; COMPLY WITH PVC CELL CLASS 12364 PER ASTM DI784, ASTM D3034 AND ASTM F1336. b) RECTANGULAR TO ROUND DOWNSPOUT ADAPTER BOOT AT GRADE.

b. UNDERGROUND NATURAL GAS PIPING MATERIALS SHALL COMPLY WITH NFPA 54 OR AGA IFGG

OTHER MATERIALS, METHODS, INSTALLATION AND TESTING.

MARKINGS OF APPROVED TESTING AGENCIES.

d. ASSEMBLE AND INSTALL COMPONENTS ACCORDING TO MANUFACTURER'S PRINTED INSTALLATION