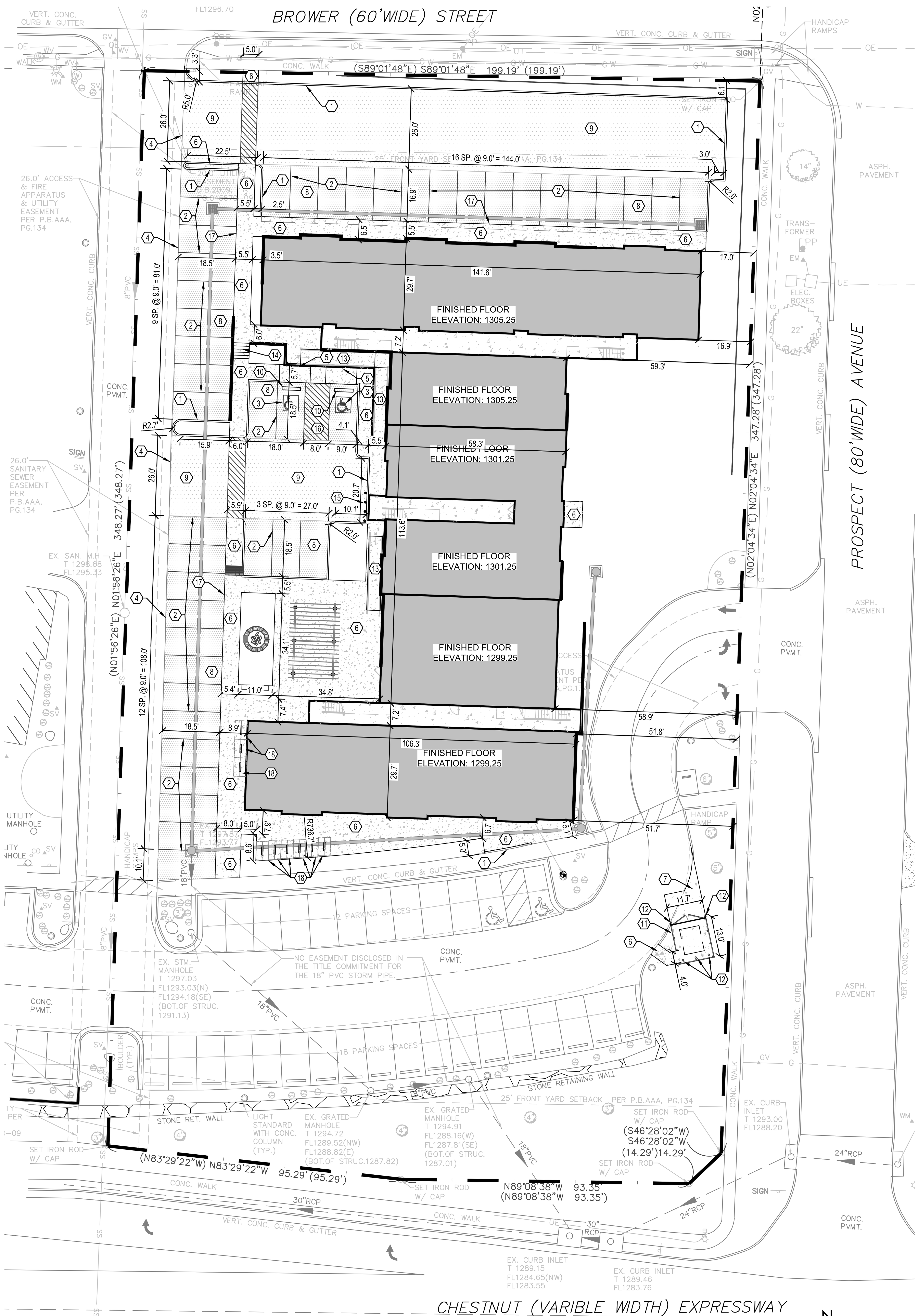
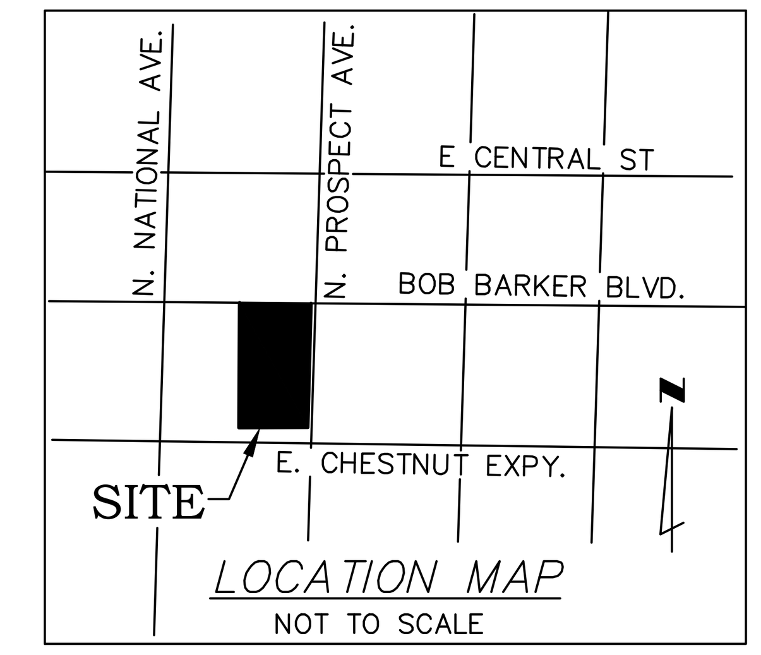


1 SITE LAYOUT & DIMENSION PLAN
C1.1 SCALE: 1" = 20'

GRAPHIC SCALE - FEET (20, 0, 20, 40, 60)

GENERAL NOTES:

1. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-344-7483.
2. THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES.
3. APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
4. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS WITHOUT PONDING ON PARKING LOTS OR SIDEWALKS. ALL IMPROVED RUNOFF TO DRAIN TO DRAINWAYS.
5. ALL CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.
6. THE REMOVAL OF ANY TREES SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO REMOVAL.
7. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
8. TESTING OF CONTROLLED STRUCTURAL FILL, OBSERVATION OF EXCAVATIONS AND COMPACTION OF SUBGRADE SHALL BE DONE BY A QUALIFIED GEOTECHNICAL ENGINEER. FOLLOW GEOTECHNICAL ENGINEER RECOMMENDATIONS FOR SITE EXCAVATION REQUIREMENTS.
10. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.
11. GRADING AT HANDICAP ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. GRADING AT HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 5% IN DIRECTION OF TRAVEL WITH 2% MAXIMUM CROSS SLOPE. GRADING AT BUILDING EGRESS DOORS SHALL NOT EXCEED 2% FOR A DISTANCE OF 5'-0" PERPENDICULAR FROM FACE OF DOOR.
12. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.



LOCATION MAP
NOT TO SCALE

ANDERSON ENGINEERING
EMPLOYEE OWNED
ENGINEERS • SURVEYORS • LABORATORIES • DRILLING
2045 W. WOODLAND • SPRINGFIELD, MISSOURI 65807 • PHONE (417) 866-2741
ANDERSON COA# 000062 • JARED M. DAVIS, PE# 2016017614

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

OPEN SPACE REQUIREMENT:

TOTAL SITE AREA = 1.62 ACRES
IMPERVIOUS AREA = 1.21 ACRES
PERVIOUS = 0.41 ACRES

OPEN SPACE PERCENTAGE = 25% > 20% REQUIREMENT

CAUTION:
EXISTING SURFACE FEATURES, STRUCTURES, ETC. AND UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, FIBER OPTIC LINES AND BURIED STRUCTURES ARE INDICATED ON THE DRAWING ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

SPECIAL NOTE:
CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED AREAS OF PAVEMENT DUE TO CONSTRUCTION ACTIVITIES.

SPECIAL NOTE:
CONTRACTOR TO CONTACT ANDERSON ENGINEERING 48 HOURS PRIOR TO EARTHWORK ACTIVITIES. ANDERSON TO PROVIDE ON-SITE SUBGRADE INSPECTION PRIOR TO PAVEMENT WORK.

KEY NOTES:

1. NEW CURB AND GUTTER PER DETAIL 3/C1.2.
2. STRIPING TO BE 4" HI-VIS WHITE PER CITY OF SPRINGFIELD STANDARDS AND SPECS.
3. INSTALL ADA ACCESSIBLE SYMBOL PER DETAIL 4/C1.2.
4. MATCH NEW PAVEMENT FLUSH WITH EXISTING PAVEMENT.
5. INSTALL ADA WALL MOUNTED SIGNAGE OR ADA POLE MOUNTED SIGNAGE PER DETAIL 7/C1.2 AND 8/C1.2. TO BE DETERMINED BY OWNER.
6. NEW SIDEWALK REFER TO DETAIL 2/C1.2.
7. NEW HEAVY DUTY CONCRETE PAVEMENT PER DETAIL 1/C1.2.
8. NEW STANDARD DUTY ASPHALT PAVEMENT PER DETAIL 2/C1.1.
9. NEW HEAVY DUTY ASPHALT PAVEMENT PER DETAIL 3/C1.1.
10. INSTALL CONCRETE PARKING BLOCK PER DETAIL 6/C1.2.
11. COMPOSITE TRASH PAD ENCLOSURE PER OWNER. REFER TO DETAILS 10/C1.2 AND 11/C1.2.
12. INSTALL 5 BOLLARDS IN TRASH PAD ENCLOSURE PER DETAIL 9/C1.2.
13. PROPOSED RAMP WITH HANDRAILS. REFER TO ARCHITECTURAL PLANS.
14. PROPOSED STAIRS. REFER TO ARCHITECTURAL PLANS.
15. INSTALL BOLLARD PER DETAIL 9/C1.2.
16. HANDICAP ACCESS UNLOADING ZONE: SLOPE 2% MAX. EACH WAY (ADA COMPLIANT) AND STRIPE AS SHOWN. 4" STRIPES @ 24" O.C. AT 45 DEGREES. PAINT COLOR TO BE PER THE AUTHORITY HAVING JURISDICTION.
17. TURNDOWN SIDEWALK ADJACENT TO PAVEMENT. REFER TO DETAIL 5/C1.2.
18. INSTALL BIKE RACK PER DETAIL 7/C1.4.

PARKING CALCULATION

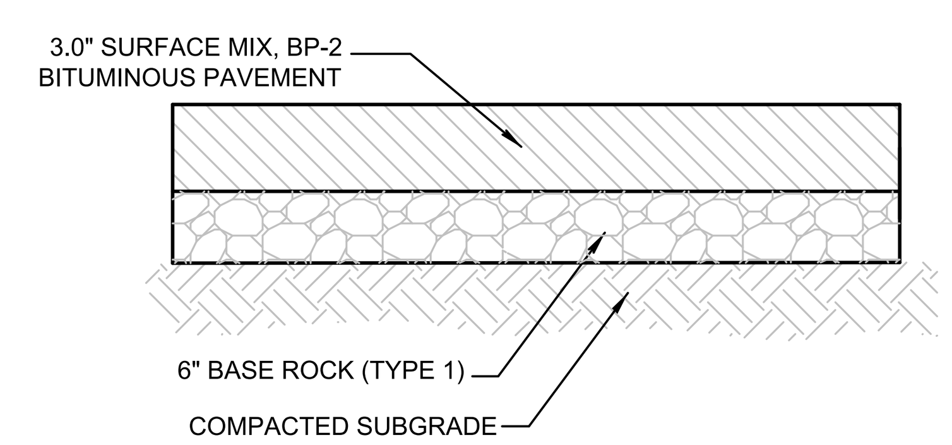
REQUIRED PARKING:			
MULTIFAMILY DWELLING - ONE BEDROOM UNITS	1 AND ONE HALF FOR EACH DWELLING UNIT	18 UNITS	27 SPACES
MULTIFAMILY DWELLING - TWO BEDROOM UNITS	TWO FOR EACH DWELLING UNIT	23 UNITS	46 SPACES
RETAIL USES	ONE FOR EACH 250 SQ. FT. OF TOTAL BUILDING FLOOR AREA	2,150 SF	9 SPACES
		TOTAL REQUIRED PARKING	82 SPACES
		10% BICYCLE PARKING REDUCTION	8 SPACES
		TOTAL REQUIRED PARKING WITH BICYCLE PARKING REDUCTION	74 SPACES
PROVIDED PARKING:			
ON-SITE CAR PARKING			74 SPACES

BIKE PARKING CALCULATION

REQUIRED PARKING:		
	PARKING	BIKE
PARKING SPACES PROVIDED	74 SPACES	3 SPACES
REQUIRED SPACES FROM 10% PARKING REDUCTION	8 SPACES	16 SPACES
TOTAL REQUIRED SPACES		19 SPACES
PROVIDED PARKING:		
BIKE PARKING PROVIDED		20 SPACES (2 EXISTING & 18 PROPOSED)

PAVEMENT LEGEND

[hatch]	STANDARD DUTY CONCRETE
[hatch]	HEAVY DUTY CONCRETE
[hatch]	STANDARD DUTY ASPHALT
[hatch]	HEAVY DUTY ASPHALT

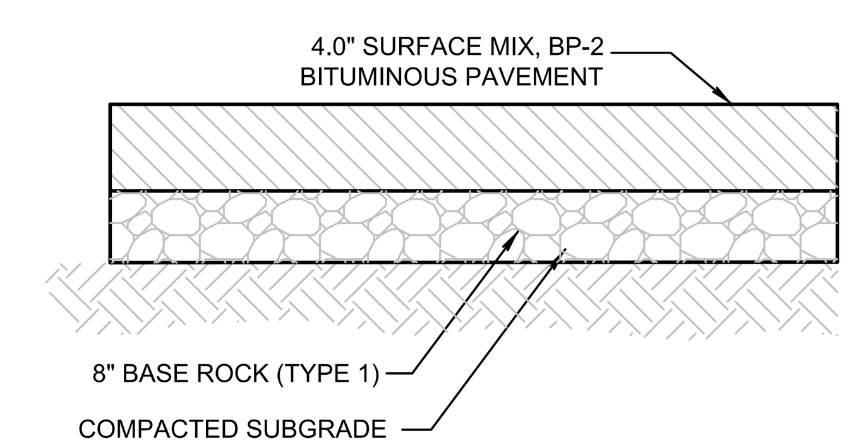


STANDARD DUTY ASPHALT

GENERAL NOTES:

1. A CBR VALUE OF 3.0 WAS USED IN THE DESIGN OF THE PAVEMENT SECTION. THE CONTRACTOR SHALL CONTACT ANDERSON ENGINEERING TO TEST THE SOILS TO CONFIRM A CBR=3 IS PRESENT FOR THE MATERIALS USED.
2. SUBGRADE MUST BE STABLE AND HARD UNDER PROOF ROLLING WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO INSTALLING BASE ROCK.
3. SOILS MUST BE PLACED AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 WITH MAXIMUM LOOSE LIFT OF 8".
4. THE MAXIMUM COMPACTED THICKNESS OF ANY ONE LAYER OF BASE ROCK MATERIAL SHALL NOT EXCEED 6 INCHES WITH EACH LIFT COMPACTED TO 100% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR).
5. THE COMPACTED THICKNESS OF A SINGLE LAYER OF PLANT MIX BITUMINOUS PAVEMENT BASE MIX SHALL BE BETWEEN 3" AND 4 1/4" WITH EACH LAYER COMPACTED TO 95% OF 50 BLOW MARSHALL DENSITY (ASTM D1559).
6. THE COMPACTED THICKNESS OF A SINGLE LAYER OF PLANT MIX BITUMINOUS PAVEMENT SURFACE MIX SHALL NOT EXCEED 2 INCHES FOR THE SURFACE COURSE WITH EACH LAYER COMPACTED TO 95% OF 50 BLOW MARSHALL DENSITY (ASTM D1559).
7. A MAINTENANCE PROGRAM THAT INCLUDES SURFACE SEALING, JOINT CLEANING AND SEALING AND TIMELY REPAIR OF CRACKS AND DETERIORATED AREAS WILL HELP PRESERVE THE PAVEMENT LIFE.
8. CARE MUST BE TAKEN TO DEVELOP POSITIVE DRAINAGE ACROSS AND FROM AROUND THE PAVEMENT EDGES. WATER ALLOWED TO POND ON OR ADJACENT TO PAVEMENTS WOULD INCREASE THE POTENTIAL FOR MOSTURE INTRUSTION INTO THE SUBGRADE SOILS AND COULD RESULT IN PREMATURE PAVEMENT FAILURE.
9. THE PLANT MIX BITUMINOUS PAVEMENT SURFACE & BASE MIXES SHOULD MEET THE REQUIREMENTS OF SECTION 401 OF THE MODOT STANDARD SPECIFICATIONS.
10. THE BASE ROCK SHOULD MEET SECTION 1007 FOR TYPE 1 AGGREGATE OF THE MODOT STANDARD SPECIFICATIONS.

2 STANDARD DUTY ASPHALT
C1.1 SCALE: NOT TO SCALE



HEAVY DUTY ASPHALT

GENERAL NOTES:

1. A CBR VALUE OF 3.0 WAS USED IN THE DESIGN OF THE PAVEMENT SECTION. THE CONTRACTOR SHALL CONTACT ANDERSON ENGINEERING TO TEST THE SOILS TO CONFIRM A CBR=3 IS PRESENT FOR THE MATERIALS USED.
2. SUBGRADE MUST BE STABLE AND HARD UNDER PROOF ROLLING WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO INSTALLING BASE ROCK.
3. SOILS MUST BE PLACED AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 WITH MAXIMUM LOOSE LIFT OF 8".
4. THE MAXIMUM COMPACTED THICKNESS OF ANY ONE LAYER OF BASE ROCK MATERIAL SHALL NOT EXCEED 6 INCHES WITH EACH LIFT COMPACTED TO 100% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR).
5. THE COMPACTED THICKNESS OF A SINGLE LAYER OF PLANT MIX BITUMINOUS PAVEMENT BASE MIX SHALL BE BETWEEN 3" AND 4 1/4" WITH EACH LAYER COMPACTED TO 95% OF 50 BLOW MARSHALL DENSITY (ASTM D1559).
6. THE COMPACTED THICKNESS OF A SINGLE LAYER OF PLANT MIX BITUMINOUS PAVEMENT SURFACE MIX SHALL NOT EXCEED 2 INCHES FOR THE SURFACE COURSE WITH EACH LAYER COMPACTED TO 95% OF 50 BLOW MARSHALL DENSITY (ASTM D1559).
7. A MAINTENANCE PROGRAM THAT INCLUDES SURFACE SEALING, JOINT CLEANING AND SEALING AND TIMELY REPAIR OF CRACKS AND DETERIORATED AREAS WILL HELP PRESERVE THE PAVEMENT LIFE.
8. CARE MUST BE TAKEN TO DEVELOP POSITIVE DRAINAGE ACROSS AND FROM AROUND THE PAVEMENT EDGES. WATER ALLOWED TO POND ON OR ADJACENT TO PAVEMENTS WOULD INCREASE THE POTENTIAL FOR MOSTURE INTRUSTION INTO THE SUBGRADE SOILS AND COULD RESULT IN PREMATURE PAVEMENT FAILURE.
9. THE PLANT MIX BITUMINOUS PAVEMENT SURFACE & BASE MIXES SHOULD MEET THE REQUIREMENTS OF SECTION 401 OF THE MODOT STANDARD SPECIFICATIONS.
10. THE BASE ROCK SHOULD MEET SECTION 1007 FOR TYPE 1 AGGREGATE OF THE MODOT STANDARD SPECIFICATIONS.

3 HEAVY DUTY ASPHALT
C1.1 SCALE: NOT TO SCALE

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SEAL
CIVIL ENGINEER - JARED M. DAVIS
PE# 2016017614
STATE OF MISSOURI — JARED M. DAVIS — NUMBER PE-2016017614 — PROFESSIONAL ENGINEER

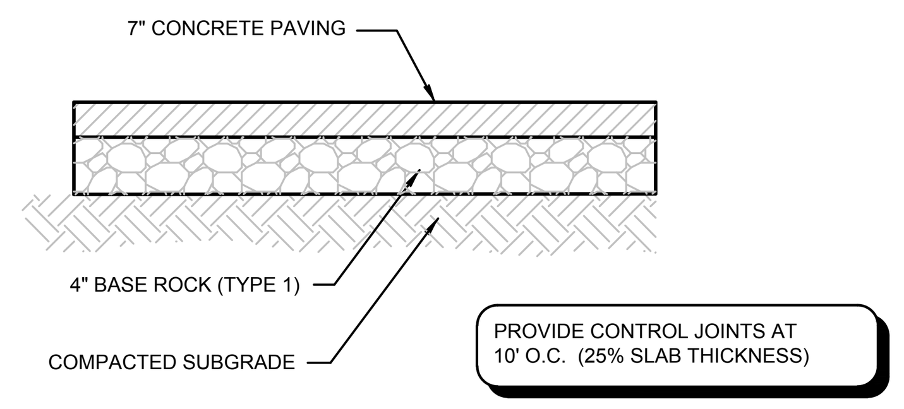
SITE LAYOUT & DIMENSION PLAN

ISSUE DATE:
2.4.2019

REVISIONS:

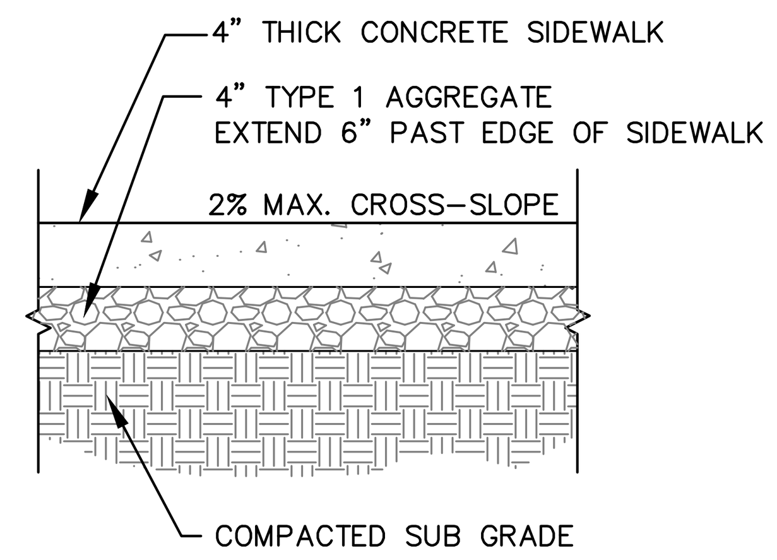
PROJECT NO.: 1817

C1.1



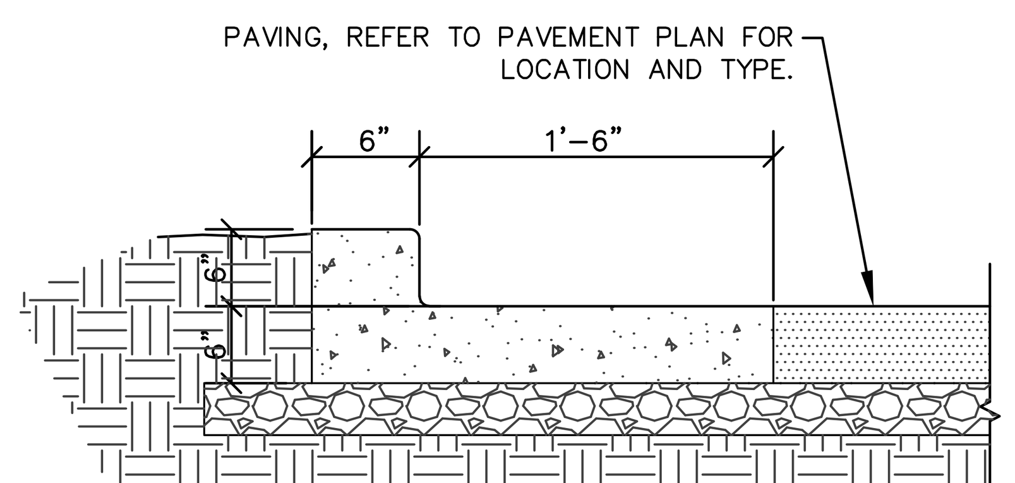
NOTES:
1. SUBGRADE MUST BE STABLE AND HARD UNDER PROOF ROLLING WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO INSTALLING BASE ROCK.
2. SOILS MUST BE PLACED AND COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 WITH MAXIMUM LOOSE LIFT OF 8".
3. THE MAXIMUM COMPACTED THICKNESS OF ANY ONE LAYER OF BASE ROCK MATERIAL SHALL NOT EXCEED 6 INCHES WITH EACH LIFT COMPACTED TO 100% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 (STANDARD PROCTOR).
4. CONCRETE PAVEMENTS SHOULD MEET THE REQUIREMENTS OF SECTION 502 OF THE MODOT STANDARD SPECIFICATIONS FOR PORTLAND CEMENT CONCRETE PAVEMENTS.
5. CARE MUST BE TAKEN TO DEVELOP POSITIVE DRAINAGE ACROSS AND FROM AROUND THE PAVEMENT EDGES. WATER ALLOWED TO POND ON OR ADJACENT TO PAVEMENTS WOULD INCREASE THE POTENTIAL FOR MOISTURE INTRUSION INTO THE SUBGRADE SOILS AND COULD RESULT IN PREMATURE PAVEMENT FAILURE.
6. A MAINTENANCE PROGRAM THAT INCLUDES SURFACE SEALING, JOINT CLEANING AND SEALING AND TIMELY REPAIR OF CRACKS AND DETERIORATED AREAS WILL HELP PRESERVE THE PAVEMENT LIFE.
7. 28 DAY COMPRESSIVE STRENGTH TO BE 4000 PSI.
8. THE BASE ROCK SHOULD MEET SECTION 1007 FOR TYPE V AGGREGATE OF THE MODOT STANDARD SPECIFICATIONS.

1 TRASH PAD HEAVY DUTY CONCRETE PAVEMENT
C1.2 SCALE: NOT TO SCALE

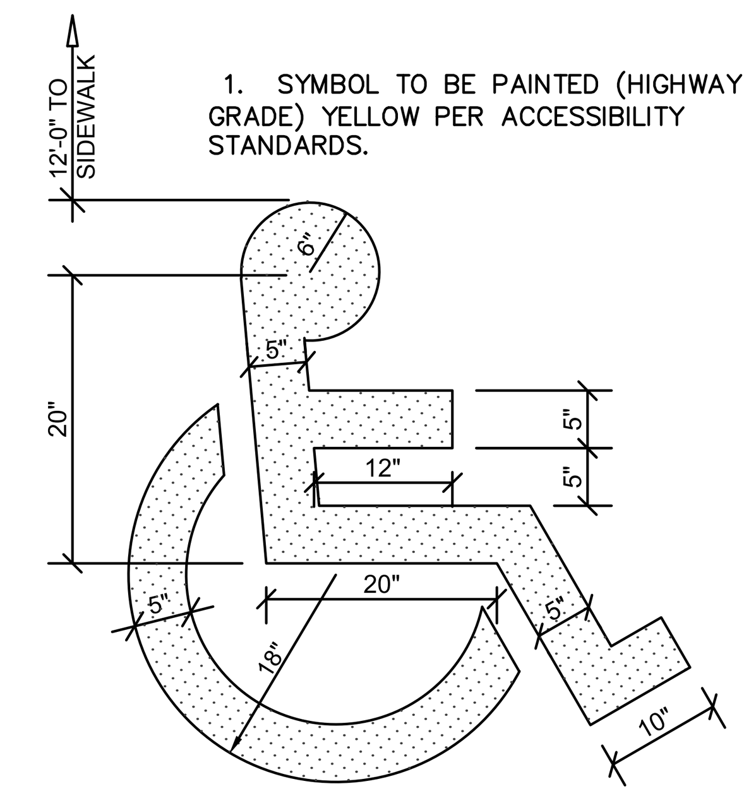


NOTE:
1. ALL SIDEWALKS ARE TO BE BUILT PER CITY OF SPRINGFIELD STANDARDS.
2. CONTROL JOINTS AT 5'-0" O.C.

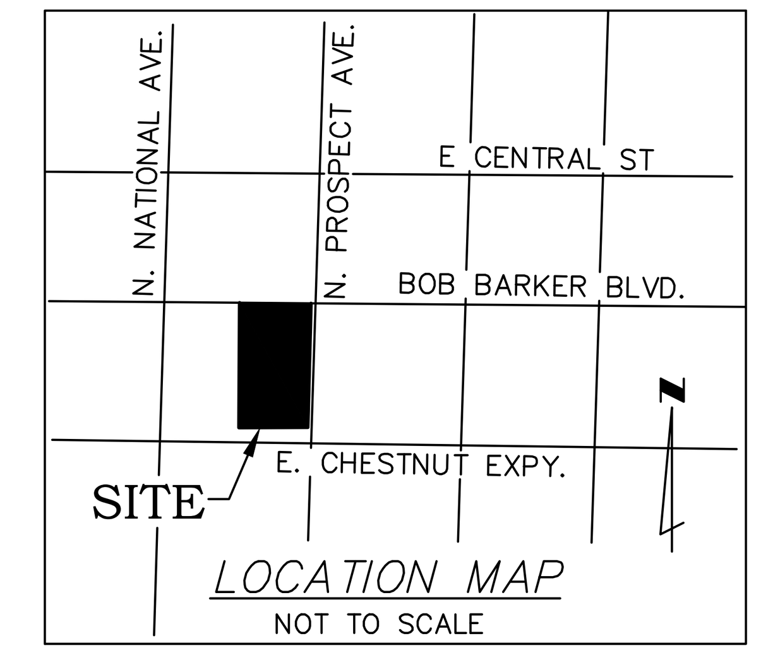
2 TYPICAL SIDEWALK CROSS-SECTION
C1.2 SCALE: NOT TO SCALE

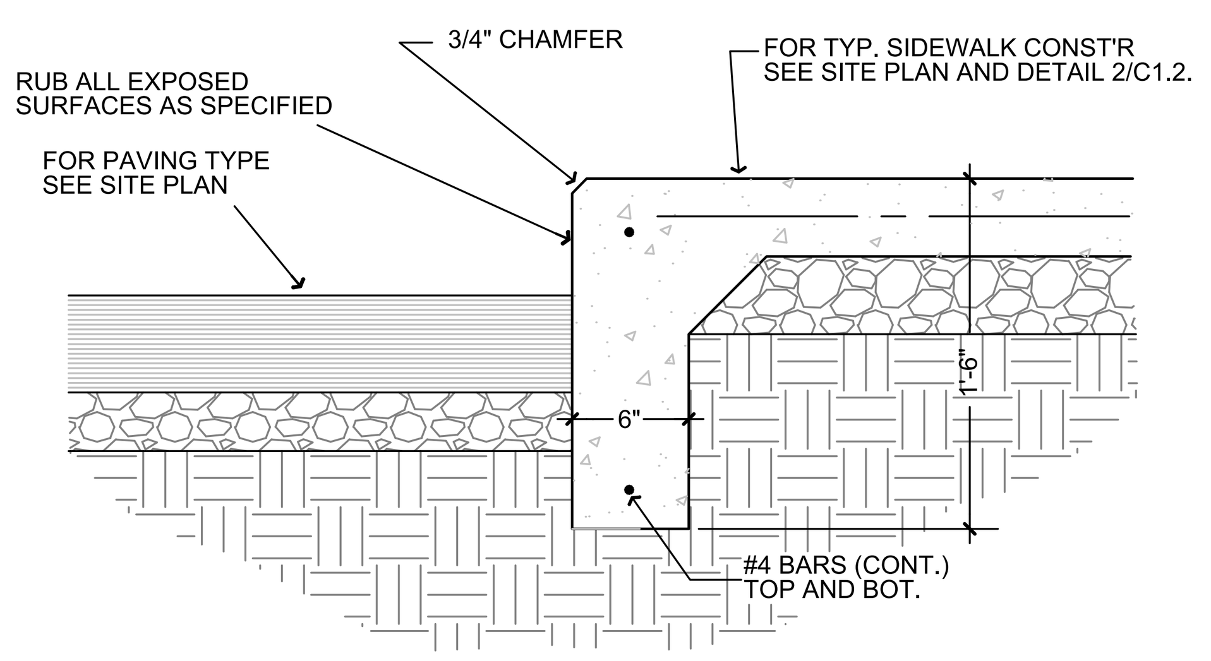


3 CURB AND GUTTER
C1.2 SCALE: NOT TO SCALE

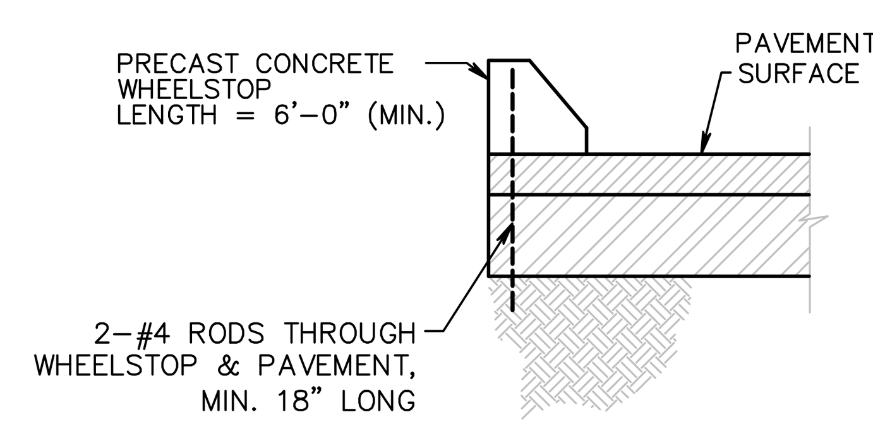


4 H.C. PARKING SYMBOL
C1.2 SCALE: NOT TO SCALE

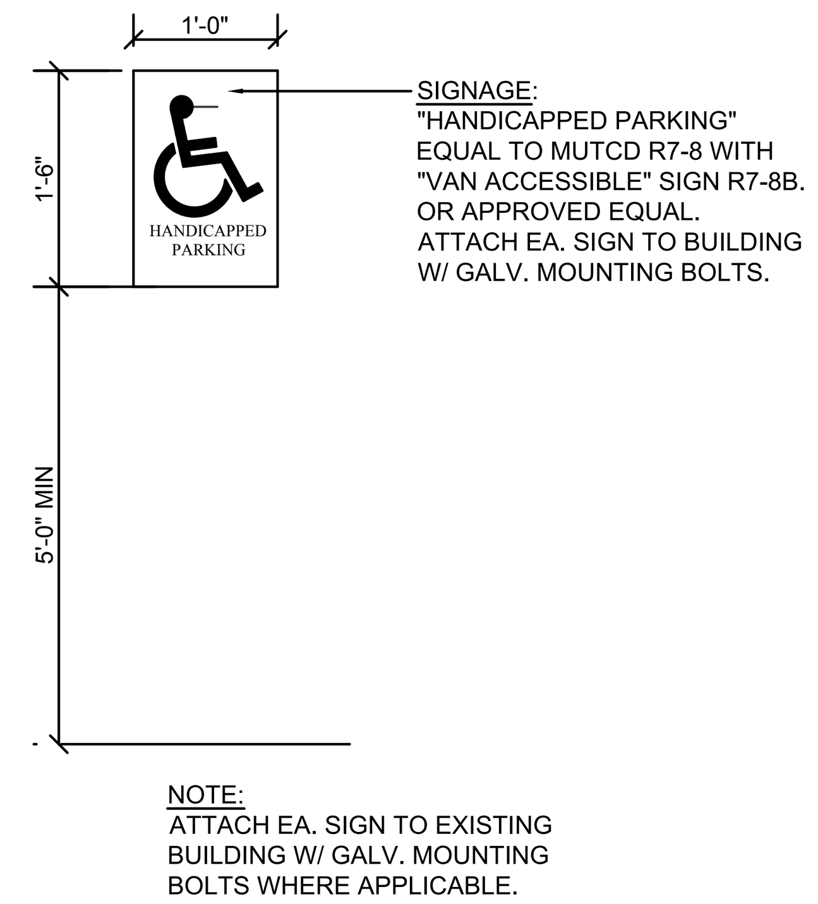




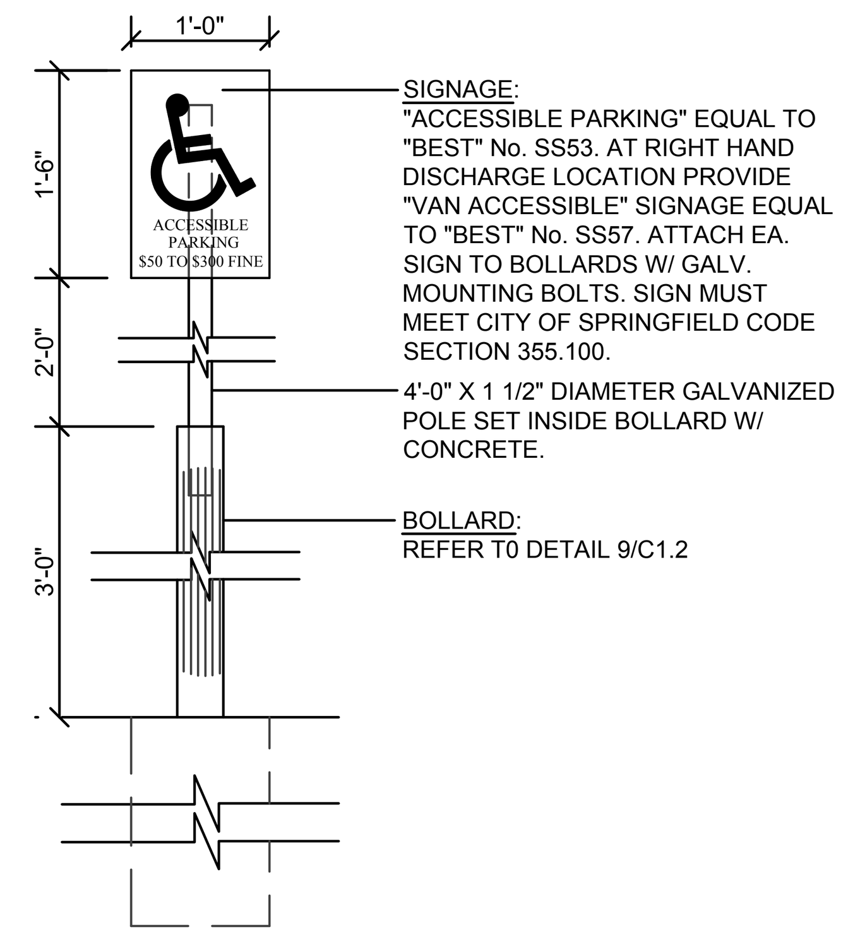
5 TURNDOWN SIDEWALK DETAIL
C1.1 SCALE: NOT TO SCALE



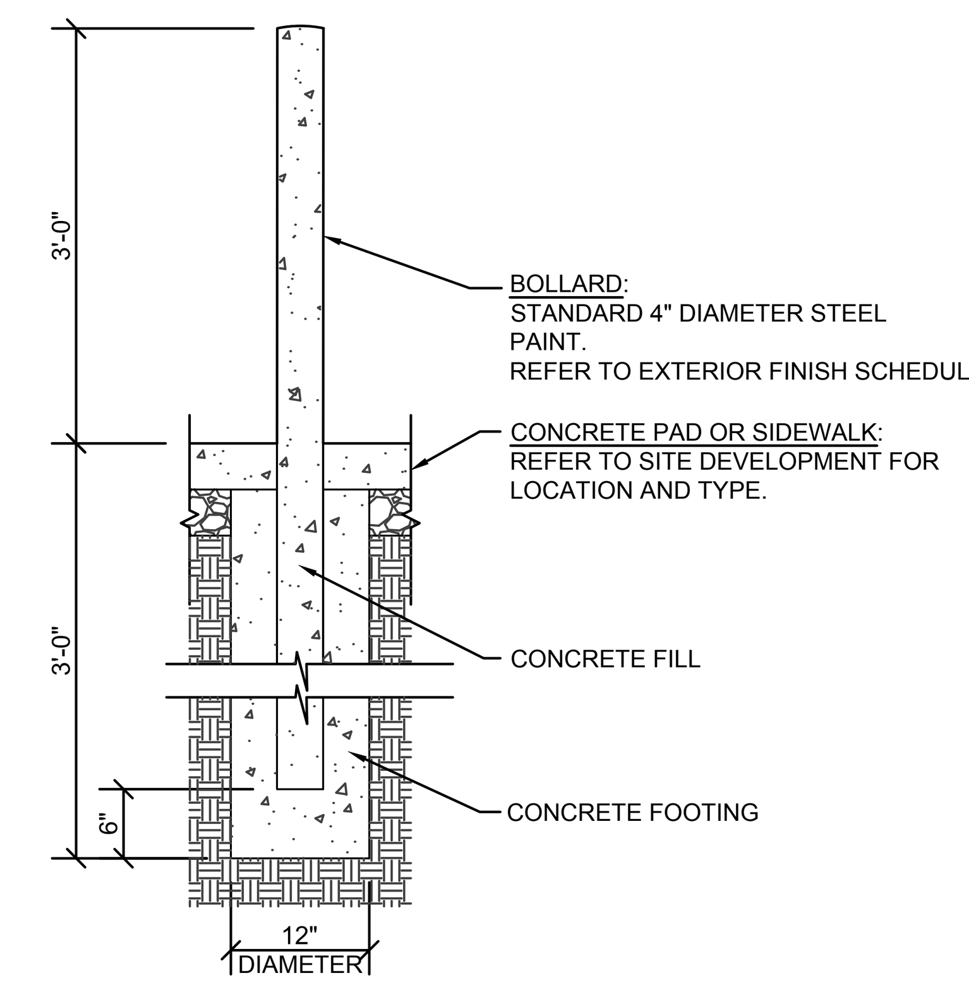
6 PRECAST CONCRETE WHEEL STOP SECTION
C1.1 SCALE: NOT TO SCALE



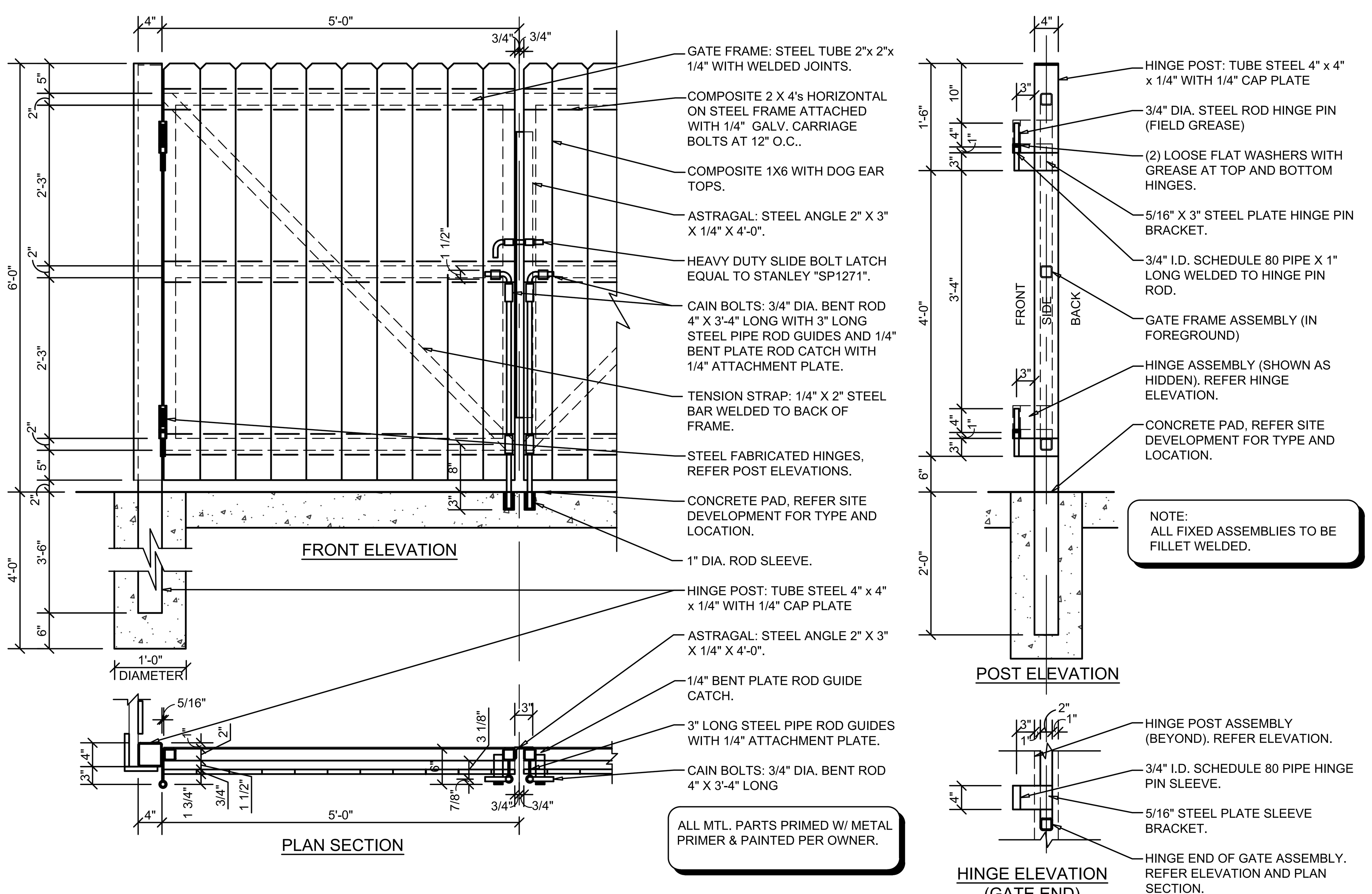
7 H.C. PARKING SIGNAGE WALL MOUNTED
C1.2 SCALE: NOT TO SCALE



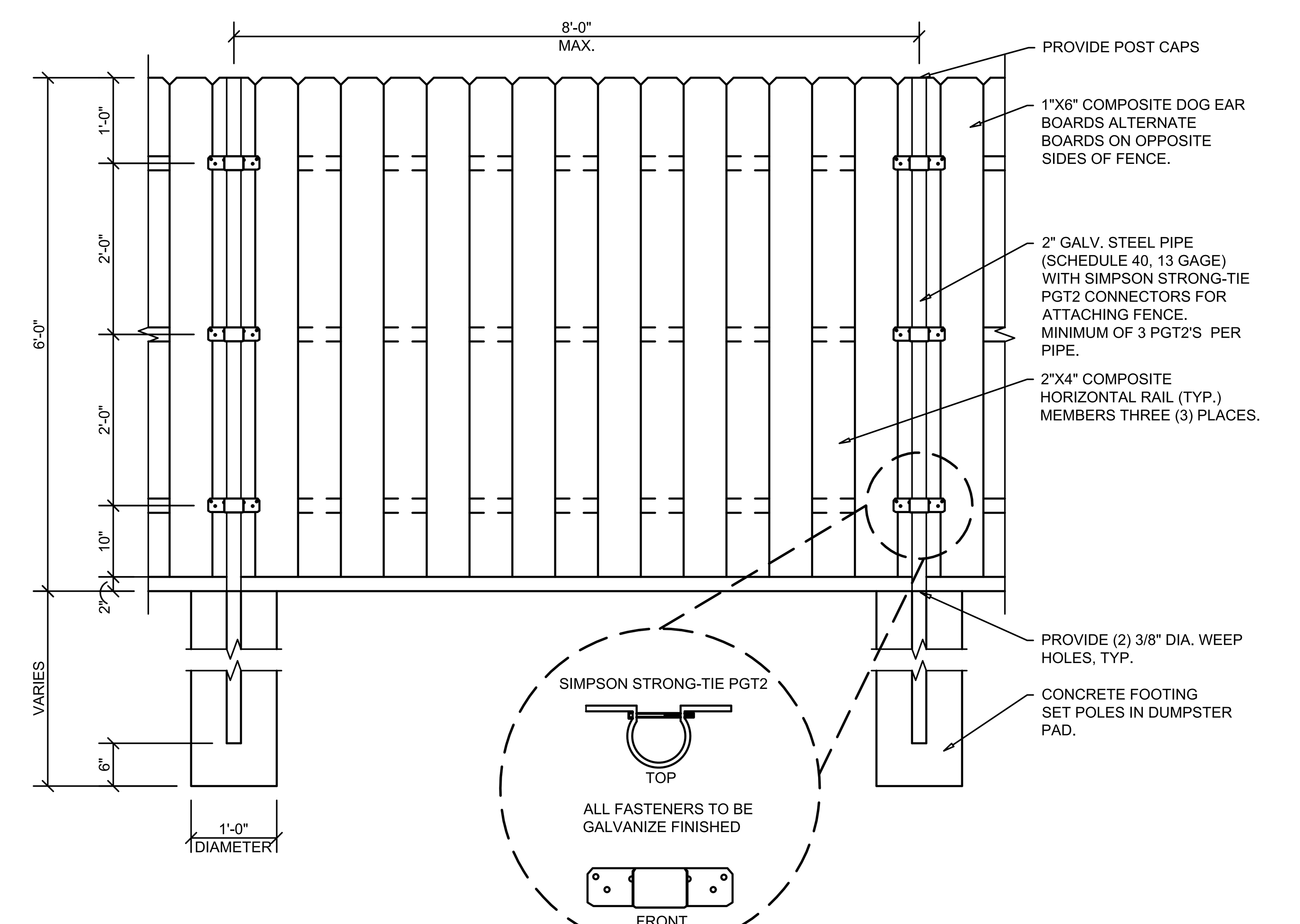
8 H.C. PARKING SIGNAGE POLE MOUNTED
C1.2 SCALE: NOT TO SCALE



9 STEEL BOLLARD SECTION
C1.2 SCALE: NOT TO SCALE



10 COMPOSITE SCREEN FENCE GATE DETAIL
C1.2 SCALE: NOT TO SCALE



11 COMPOSITE SCREEN FENCE DETAIL
C1.2 SCALE: NOT TO SCALE

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SEAL
CIVIL ENGINEER - JARED M. DAVIS
PE# 2016017614

SITE DETAILS

ISSUE DATE:
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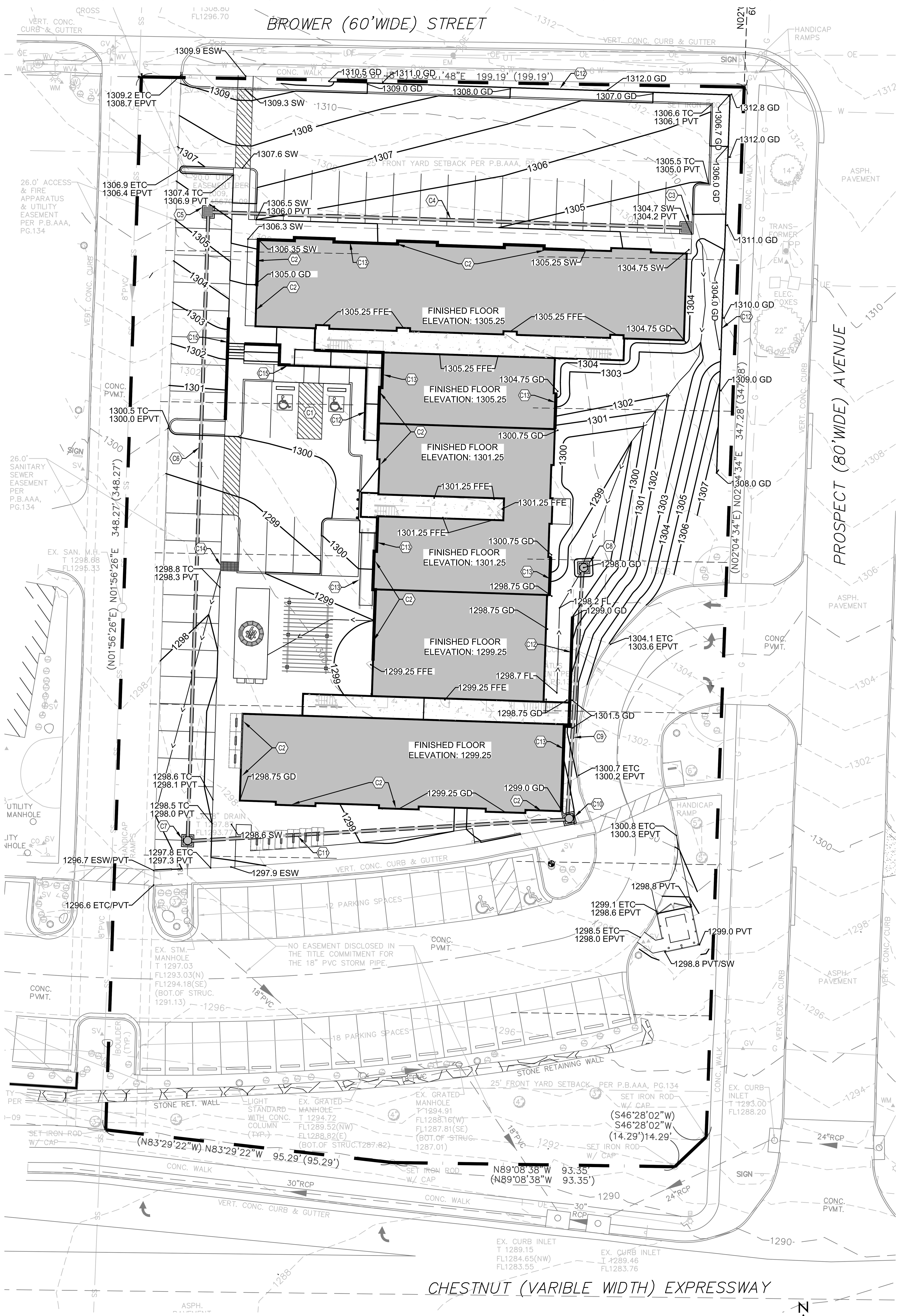
PROJECT NO.: 1817

C1.2



1 SITE GRADING PLAN
C1.3 SCALE: 1" = 20'

GENERAL NOTES:

1. SITE CONDITIONS BASED UPON SURVEY SUBMITTED BY OWNER. THE CONTRACTOR SHALL FIELD VERIFY ALL HORIZONTAL AND VERTICAL LINES AND GRADES OF EXISTING UTILITIES PRIOR TO THE CONSTRUCTION OF IMPROVEMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A DISCREPANCY BETWEEN THE CONTRACT DRAWINGS AND ACTUAL FIELD CONDITIONS. CONTACT ONE CALL: 1-800-344-7483.
2. THE CONTRACTOR MUST COORDINATE CONSTRUCTION WITH THE NECESSARY AUTHORITIES.
3. APPLICABLE PERMITS MUST BE OBTAINED PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
4. PROVIDE POSITIVE DRAINAGE AWAY FROM ALL BUILDINGS WITHOUT PONDING ON PARKING LOTS OR SIDEWALKS.
5. ALL IMPROVED RUNOFF TO DRAIN TO DRAINWAYS.
6. ALL CONTOURS AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE.
7. THE REMOVAL OF ANY TREES SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO REMOVAL.
8. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
9. TESTING OF CONTROLLED STRUCTURAL FILL, OBSERVATION OF EXCAVATIONS AND COMPACTION OF SUBGRADE SHALL BE DONE BY A QUALIFIED GEOTECHNICAL ENGINEER. FOLLOW GEOTECHNICAL ENGINEER RECOMMENDATIONS FOR SITE EXCAVATION REQUIREMENTS.
10. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.
11. GRADING AT HANDICAP ACCESSIBLE PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION. GRADING AT HANDICAP ACCESSIBLE ROUTE SHALL NOT EXCEED 5% IN DIRECTION OF TRAVEL WITH 2% MAXIMUM CROSS SLOPE. GRADING AT BUILDING EGRESS DOORS SHALL NOT EXCEED 2% FOR A DISTANCE OF 5'-0" PERPENDICULAR FROM FACE OF DOOR.

SAFETY NOTES:

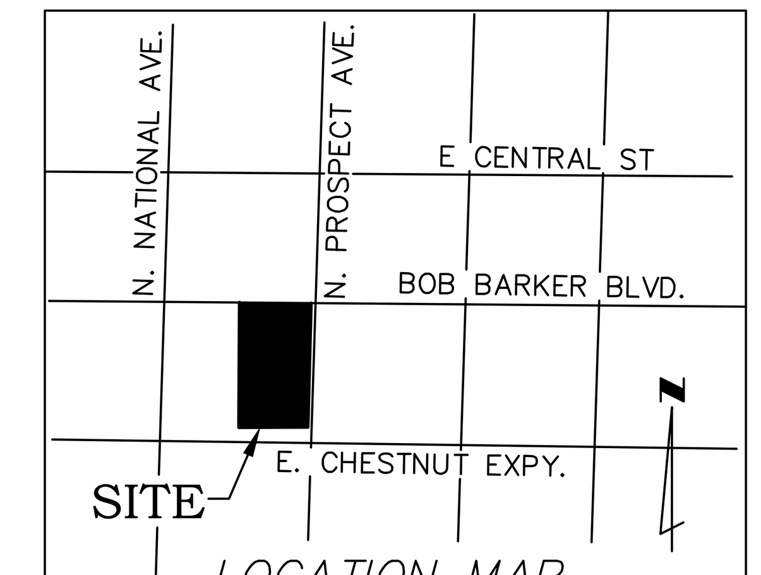
1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
2. THE DUTY OF THE ENGINEER OR OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

STAGES OF CONSTRUCTION:

1. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT OWNER WITH ANY CONFLICTS.
2. INSTALLATION OF CONSTRUCTION ENTRANCE.
3. INSTALLATION OF EROSION CONTROL FENCE.
4. IMPLEMENTATION OF STORMWATER POLLUTION PREVENTION PLAN.
5. DEMOLITION OF EXISTING SITE IMPROVEMENTS, IF REQUIRED.
6. INSTALLATION OF ALL STORM WATER DRAINAGE IMPROVEMENTS.
7. ROUGH GRADING.
8. CONSTRUCTION OF NEW SITE IMPROVEMENTS.
9. FINAL GRADING.
10. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD.
11. REMOVAL OF EROSION AND SEDIMENT CONTROL ITEMS.

KEY NOTES:

- C1 ADA PARKING AND SIDEWALK. REFER TO DETAIL 1/C1.4 FOR DETAILED GRADING PLAN.
- C2 TIE ALL DOWNSPOUTS TO ADJACENT STORM PIPE AT FLOW LINE. REFER TO DETAIL 2/C1.4.
- C3 INSTALL 4' X 4' GRATED INLET. RIM = 1304.2', INV = 1301.2' REFER TO DETAIL 3/C1.4.
- C4 INSTALL 156 LF OF 12"Ø PIPE. REFER TO PIPE NOTES.
- C5 INSTALL 4' X 4' JUNCTION BOX. RIM = 1305.9', INV = 1300.4' REFER TO DETAIL 4/C1.4.
- C6 INSTALL 206 LF OF 12"Ø PIPE. REFER TO PIPE NOTES.
- C7 REMOVE EXISTING 8" DRAIN AND INSTALL 4' X 4' JUNCTION BOX ON EXISTING 18"Ø PIPE. RIM = 1297.2', EXISTING PIPE INV = 1293.77' PIPE C6 / C11 INV = 1293.8' REFER TO DETAIL 4/C1.4.
- C8 INSTALL 4' X 4' AREA INLET. RIM = 1299.25', GRADE = 1298.0' INV = 1295.0' REFER TO DETAIL 5/C1.4.
- C9 INSTALL 82 LF OF 18"Ø PIPE. REFER TO PIPE NOTES.
- C10 INSTALL 4' X 4' JUNCTION BOX. RIM = 1300.0', INV = 1294.5' REFER TO DETAIL 4/C1.4.
- C11 INSTALL 124 LF OF 18"Ø PIPE. REFER TO PIPE NOTES.
- C12 MODULAR BLOCK RETAINING WALL TO BE DESIGNED/BUILD BY RETAINING WALL CONTRACTOR. GLOBAL STABILIZATION / GEO-GRID DESIGN / INSTALLATION BY SUBCONTRACTOR AS REQUIRED.
- C13 STEM WALL BY OTHERS. REFER TO STRUCTURAL.
- C14 INSTALL 3' WIDE CONCRETE FLUME WITH 4' WIDE STEEL TREADPLATE THROUGH SIDEWALK. REFER TO DETAIL 6/C1.4.
- C15 CONCRETE RETAINING WALL BY OTHERS. REFER TO STRUCTURAL.



LOCATION MAP
NOT TO SCALE

PIPES NOTES:

1. PIPE MATERIALS SHALL BE IN ACCORDANCE WITH AND AS APPROVED BY THE CITY OR APPLICABLE AUTHORITY. REINFORCED CONCRETE PIPE (RCP), CORRUGATED METAL PIPE (CMP), OR HIGH DENSITY POLYETHYLENE (HDPE) MAY BE USED AS ALLOWED BY LOCAL GUIDELINES.
2. ALL PIPE IS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND MEET COVER REQUIREMENTS PER THE MANUFACTURER. REFER TO MANUFACTURER FOR MATERIAL SPECIFICATIONS FOR TRAFFIC LOADING AND INSTALLATION REQUIREMENTS.

STORMWATER SUMMARY:

TOTAL PROPERTY AREA = 1.62 ACRES
TOTAL DISTURBED AREA = 0.98 ACRES < 1.0 ACRES, THEREFORE NO WATER QUALITY OR CITY/STATE LAND DISTURBANCE PERMIT REQUIRED.

EXISTING DRAINAGE AREA SUMMARY:
PERVIOUS AREA: 1.21 ACRES
IMPERVIOUS AREA: 0.41 ACRES

DEVELOPED DRAINAGE AREA SUMMARY:
PERVIOUS AREA: 0.41 ACRES
IMPERVIOUS AREA: 1.21 ACRES

DEVELOPED SITE IMPERVIOUS AREA > EXISTING SITE IMPERVIOUS AREA, THEREFORE A STORMWATER DETENTION BUYOUT HAS BEEN OBTAINED.

BENCHMARK

CUT SQUARE ON TOP OF NORTH SIDE OF CONC. COLUMN FOR LIGHT STANDARD.
ELEV.=1300.05 FT. VERTICAL DATUM = NAVD 1988.

CAUTION:

EXISTING SURFACE FEATURES, STRUCTURES, ETC. AND UNDERGROUND INSTALLATIONS SUCH AS WATER MAINS, GAS MAINS, SEWERS, TELEPHONE LINES, FIBER OPTIC LINES AND BURIED STRUCTURES ARE INDICATED ON THE DRAWING ONLY TO THE EXTENT SUCH INFORMATION HAS BEEN MADE AVAILABLE TO OR DISCOVERED BY THE SURVEYOR IN PREPARING THIS DRAWING. THERE IS NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF SUCH INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

SPECIAL NOTE:

CONTRACTOR MUST OBTAIN AN EXCAVATION PERMIT FROM TRAFFIC ENGINEERING FOR DIRECT CONNECTIONS INTO PUBLIC STORMWATER FACILITIES PRIOR TO PERFORMING THE WORK

SPECIAL NOTE:

FIELD VERIFY SANITARY SEWER AND STORM SEWER CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. REFER TO SITE UTILITIES PLAN.

SPECIAL NOTE:

CONTRACTOR SHALL FIELD VERIFY PROPOSED GRADES MATCH EXISTING PAVEMENT AT DRIVEWAY ENTRANCES, SIDEWALK CONNECTIONS, AND ALL CONNECTION POINTS PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IF DISCREPANCY OCCURS.

SPECIAL NOTE:

CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT ENGINEER WITH ANY CONFLICTS.

SPECIAL NOTE:

CONTRACTOR TO OBTAIN A STORMWATER DETENTION PERMIT PRIOR TO BEGINNING WORK. PERMIT CAN BE OBTAINED THROUGH BUILDING DEVELOPMENT SERVICES.

SYMBOLS LEGEND

REFER TO SURVEY FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.

Symbol	Description
—1301—	EXISTING GRADE LINES
—1301—	PROPOSED NEW GRADE LINES
(shaded box)	NEW BUILDING CONSTRUCTION
(arrow)	FLOW DIRECTION ARROW
———	DRAINAGE SWALE
+ 1301.0 PVT	NEW SPOT ELEVATIONS

LIST	ABBREVIATION
GRADE	NONE
SIDEWALK	SW
TOP OF WALL	TW
TOP OF CURB	TC
TOP OF PAVEMENT	PVT
NEW GRADE	GD
CONCRETE	CONC
EXISTING TOP OF CURB	ETC
EXISTING GRADE	EGD
EXISTING PAVEMENT	EPVT
EXISTING SIDEWALK	ESW
LADOT PAVEMENT (+3.5")	NPVT
FLOW LINE	FL
TOP OF BERM	TOP

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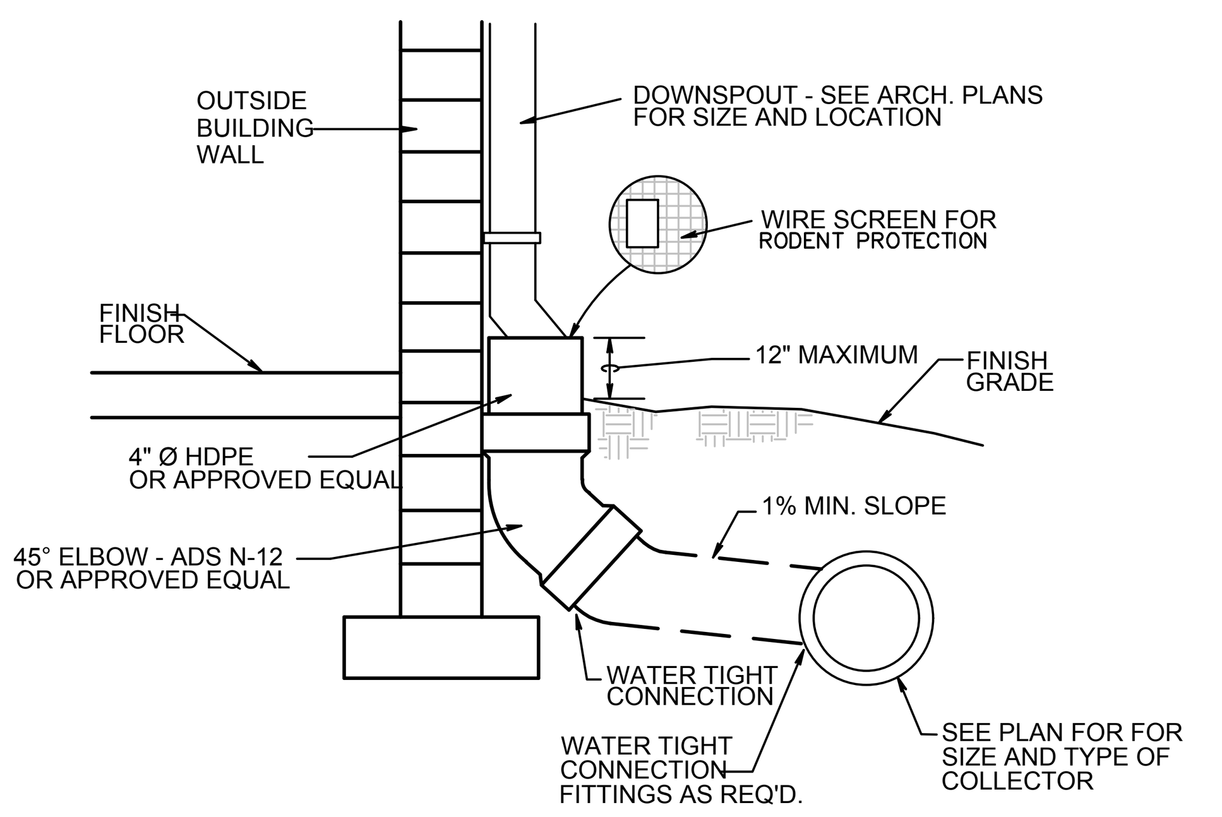
SEAL
CIVIL ENGINEER - JARED M. DAVIS
PE# 2016017614
STATE OF MISSOURI JARED M. DAVIS NUMBER PE-2016017614 PROFESSIONAL ENGINEER

SITE GRADING PLAN

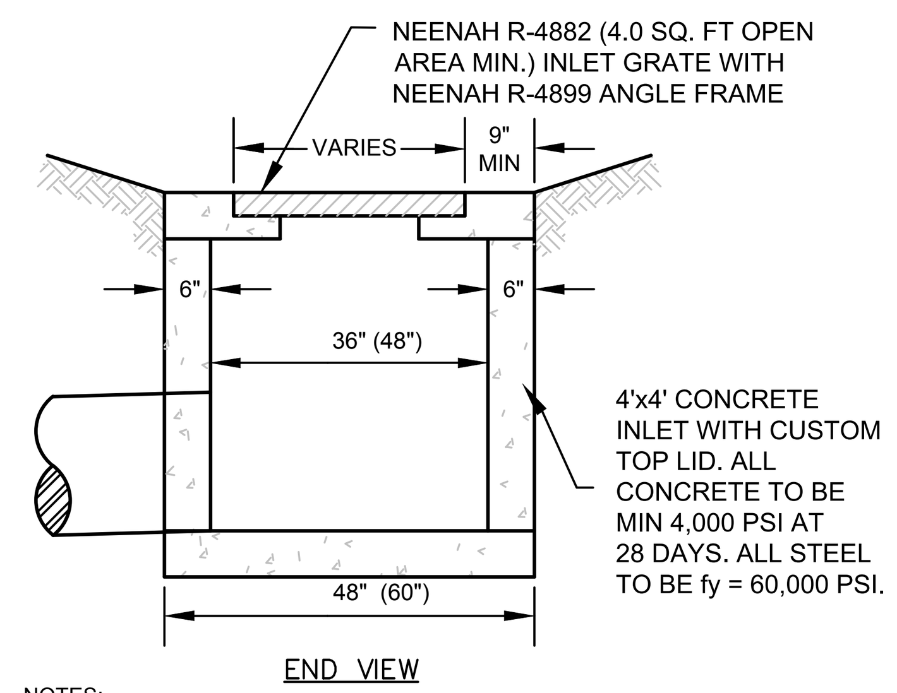
ISSUE DATE:
2.4.2019
REVISIONS:

PROJECT NO.: 1817

C1.3

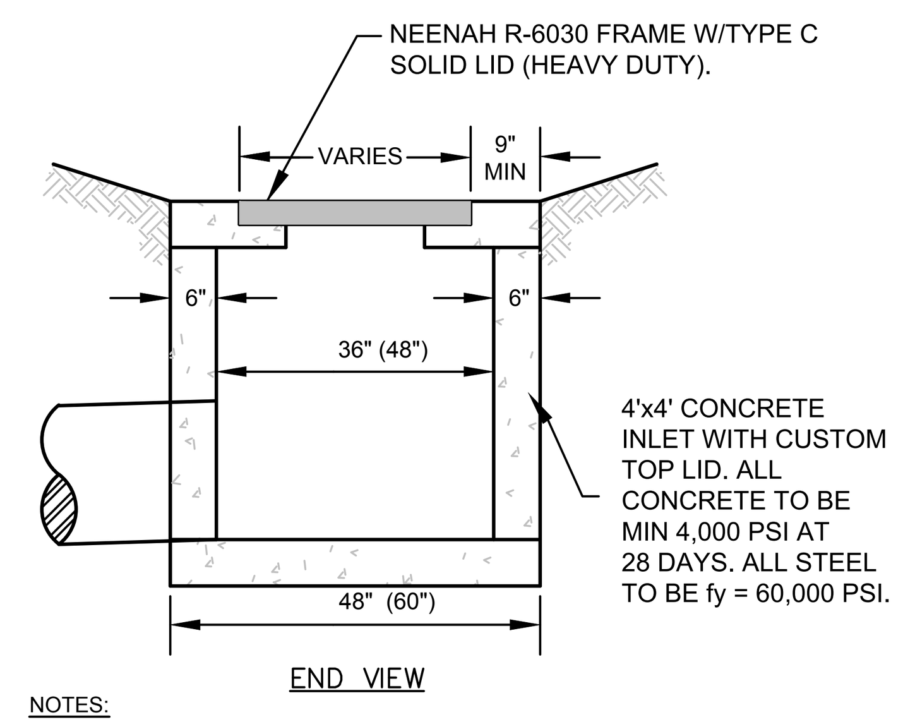


2 DOWNSPOUT COLLECTOR
C1.4 SCALE: NOT TO SCALE



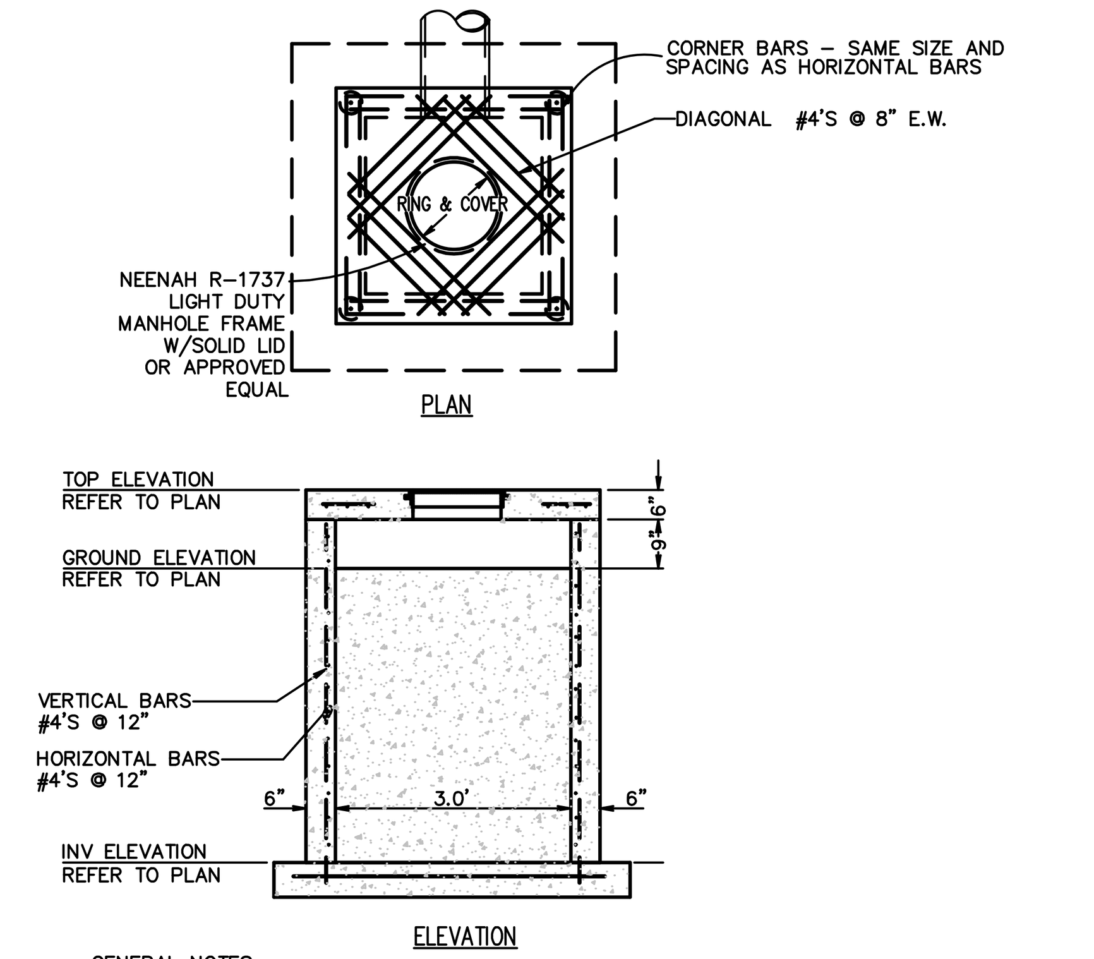
NOTES:
1. INLET CAN BE SUBSTITUTED WITH ROUND EQUIVALENTS.

3 GRATED INLET DETAIL
C1.4 SCALE: NOT TO SCALE



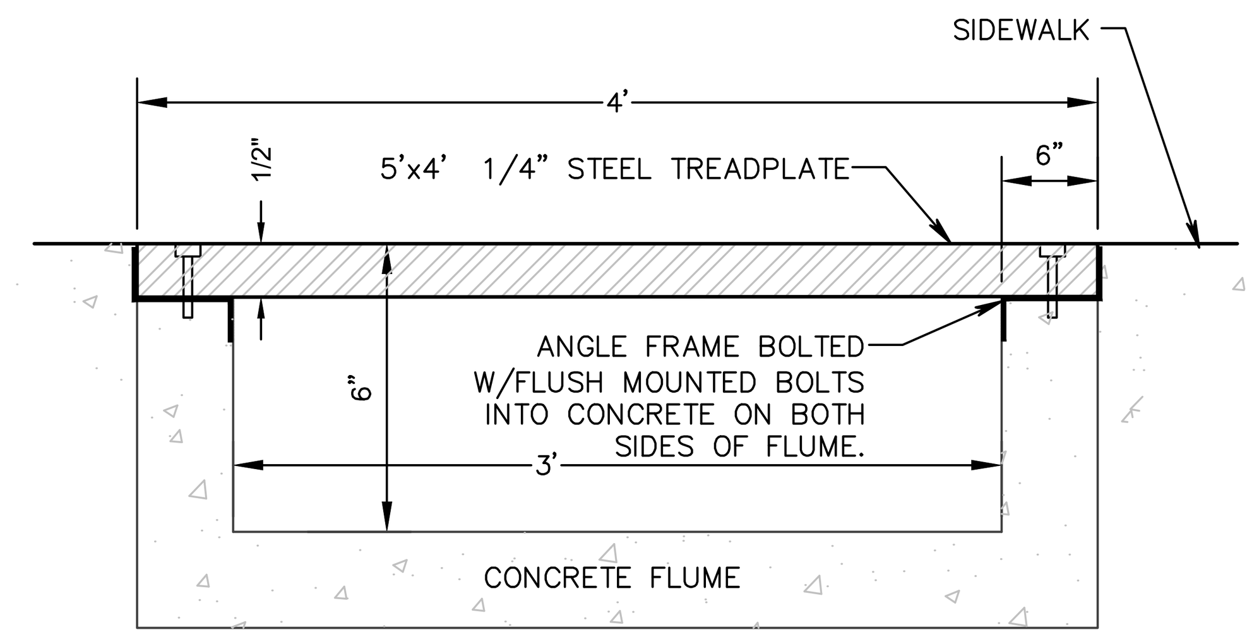
NOTES:
1. INLET CAN BE SUBSTITUTED WITH ROUND EQUIVALENTS.

4 JUNCTION BOX DETAIL
C1.4 SCALE: NOT TO SCALE

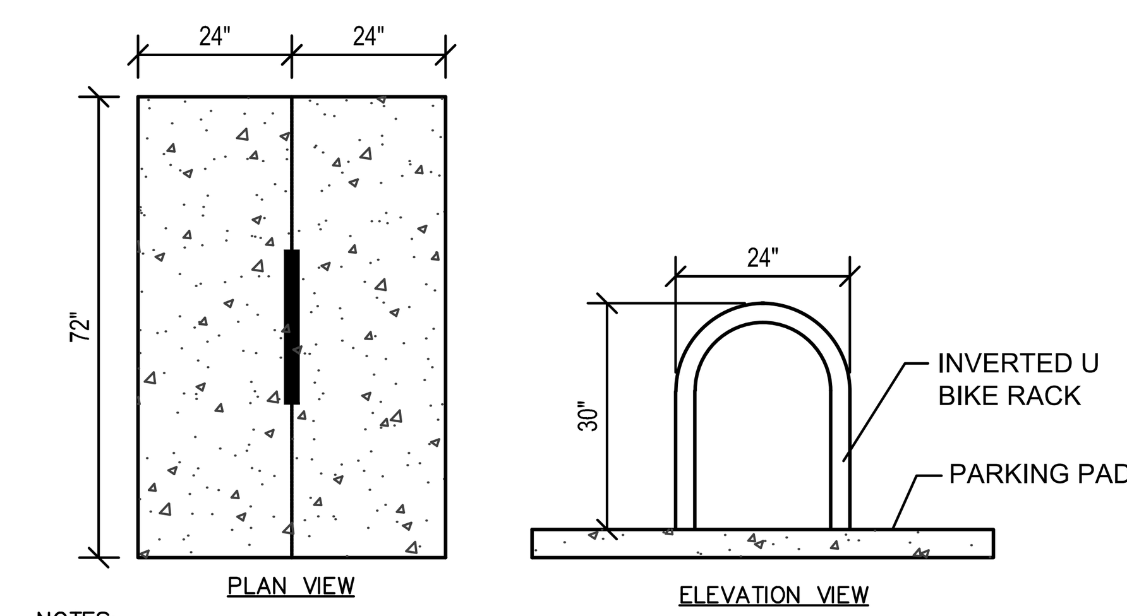


GENERAL NOTES:
1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER
2. ALL #4 & #5 REINFORCING BARS TO HAVE 1-1/2" COVER, LARGER SIZES TO HAVE 2" COVER.
3. PIPES SHALL CONNECT TO THE ENDS OR SIDES OF THE INLET. CONNECTION SHALL NOT BE MADE AT THE CORNERS OF THE INLET.
4. ALL REINFORCING BARS TO BE GRADE 60.

5 AREA INLET DETAIL
C1.4 SCALE: NOT TO SCALE

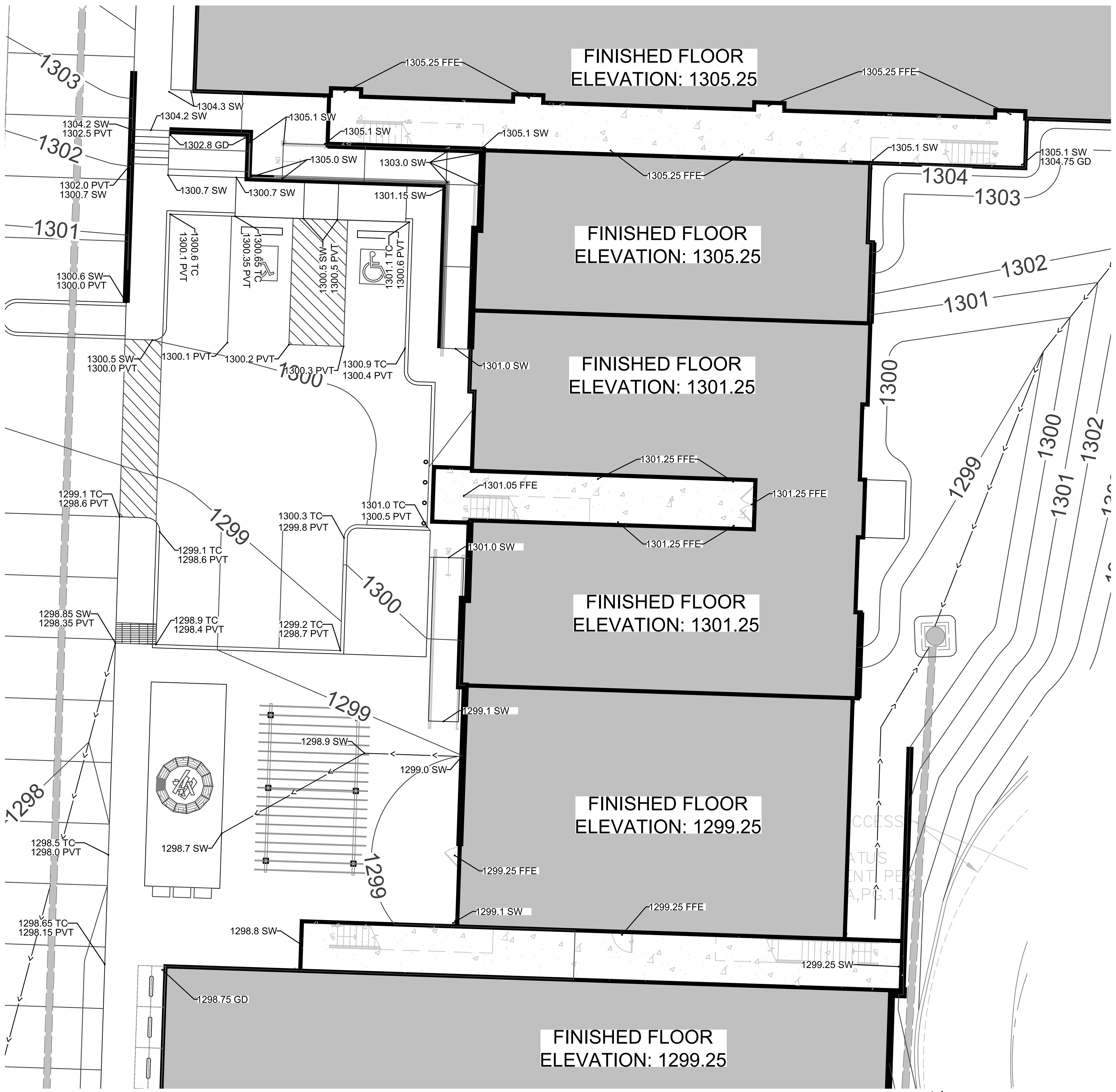


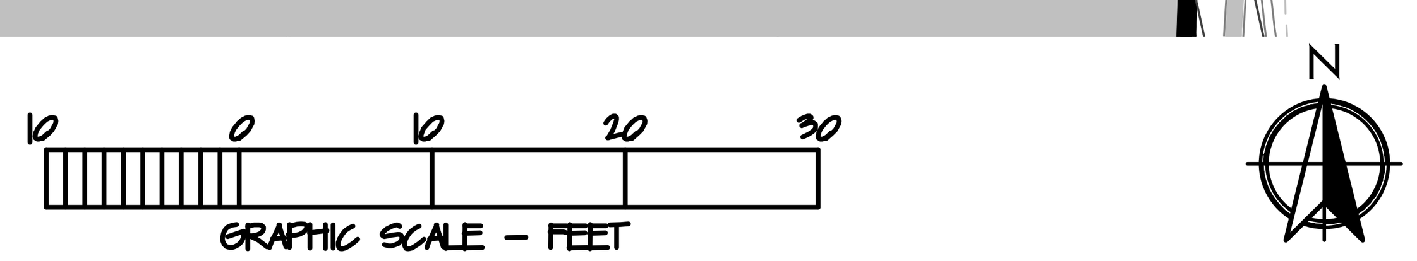
6 FLUME WITH STEEL TREADPLATE
C1.4 SCALE: NOT TO SCALE



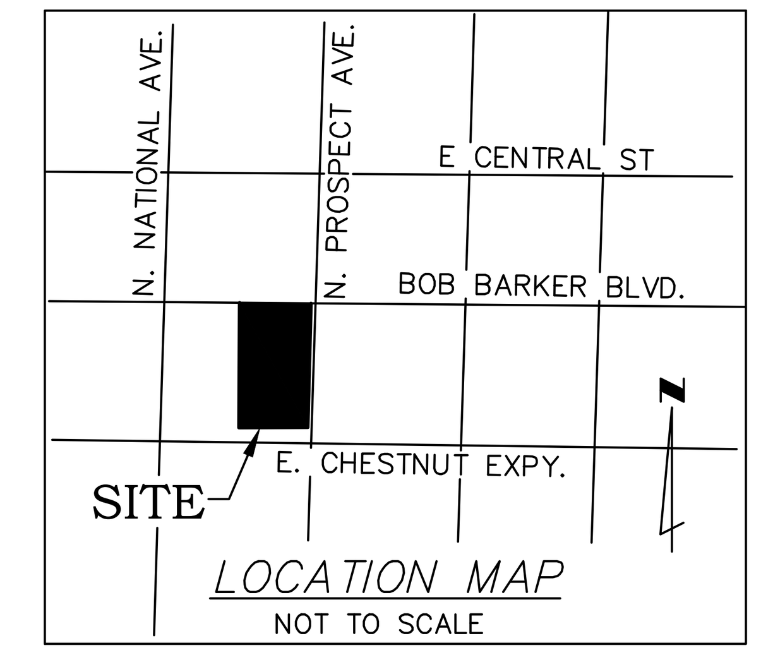
NOTES:
1. PAD CAN BE EITHER ASPHALT OR CONCRETE.
2. BICYCLE PARKING SPACES SHALL BE ACCESSED ON AT LEAST ONE SIDE WITH A CLEARANCE OF NOT LESS THAN 48 INCHES.

7 BICYCLE PARKING DETAIL
C1.4 SCALE: NOT TO SCALE





1 DETAILED GRADING PLAN
C1.4 SCALE: 1" = 10'



LOCATION MAP
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SEAL
CIVIL ENGINEER - JARED M. DAVIS
PE# 2016017614

STATE OF MISSOURI
JARED M. DAVIS
NUMBER
PE-2016017614
PROFESSIONAL ENGINEER

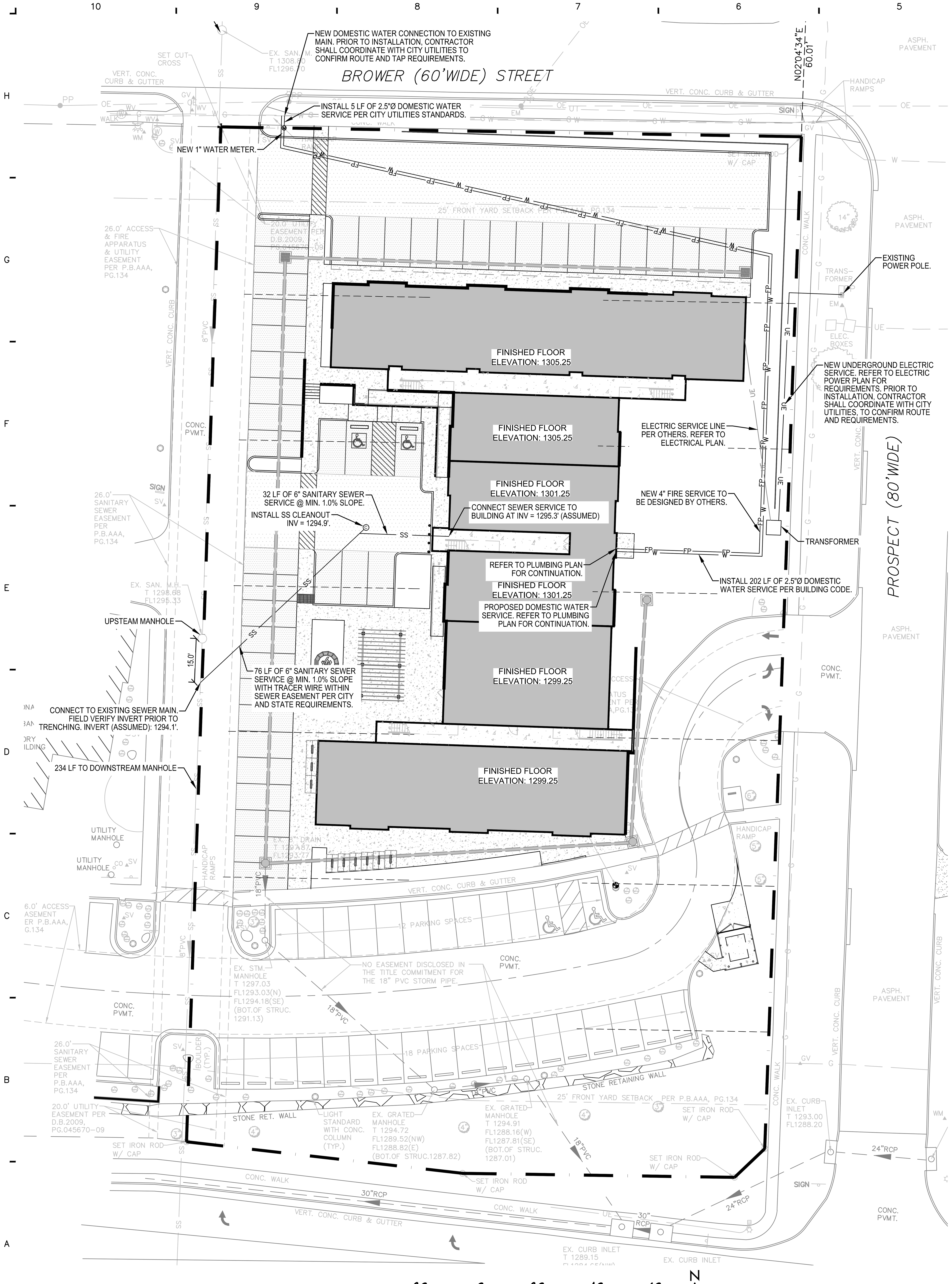
SITE GRADING DETAILS

ISSUE DATE:
2.4.2019

REVISIONS:

PROJECT NO.: 1817

C1.4



1 SITE UTILITY PLAN

C1.5 SCALE: 1" = 20'

GRAPHIC SCALE - FEET

UTILITIES INFORMATION:

ELECTRIC, WATER, & GAS	CITY UTILITIES 301 E. CENTRAL ST. SPRINGFIELD, MO 65802 (417) 863-9000
SANITARY SEWER:	CITY OF SPRINGFIELD 840 BOONVILLE AVE SPRINGFIELD, MO 65802 (417) 864-1919
TELEPHONE:	AT&T MISSOURI 1111 S. GLENSTON AVE. SPRINGFIELD, MO 65804 (417) 864-3700

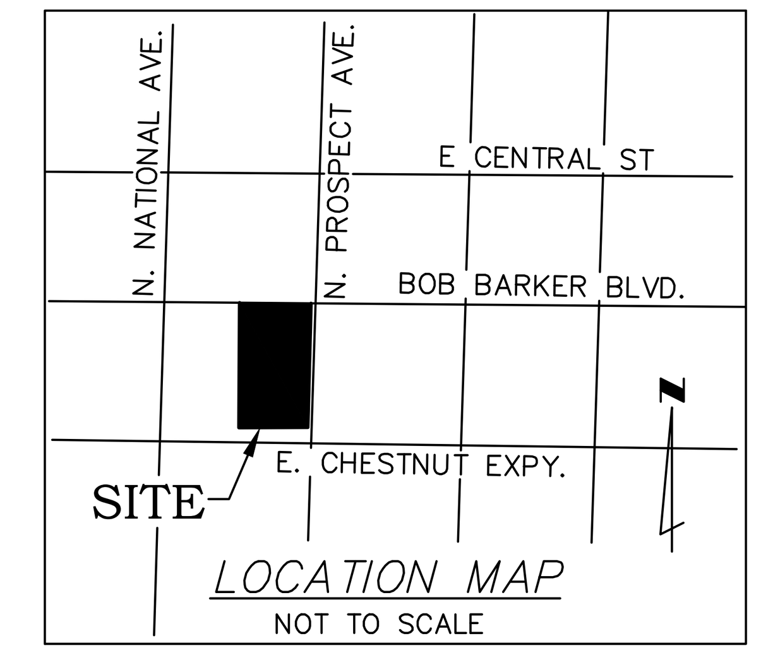
CAUTION:
INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

SAWCUT NOTE:

WHERE NEW UTILITY SERVICES ARE ROUTED UNDER EXISTING PAVED AREAS, ALL EXISTING PAVING SHALL BE REMOVED IN THE FOLLOWING STEPS:
1) SAWCUTTING PAVING.
2) REMOVAL AND TRENCHING.
3) INSTALLATION OF UTILITY.
4) BACKFILL AND COMPACTION
5) INSTALLATION OF NEW PAVING THAT MATCHES THE EXISTING SURROUNDING PAVING IN BOTH MATERIAL AND ELEVATION.
OWNER/DEVELOPER SHALL COORDINATE, OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND LICENSES TO PERFORM THIS WORK AND SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL WHILE PERFORMING SAWCUTTING OPERATIONS AS NECESSARY.

CONTRACTOR NOTE:

CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR DEMOLITION OF EXISTING UTILITIES TO EXISTING STRUCTURE TO BE DEMOLISHED. EXISTING UTILITY TAPS SHALL BE USED IF FOUND TO BE IN GOOD CONDITION.



LOCATION MAP
NOT TO SCALE

SAFETY NOTICE TO CONTRACTOR

1. IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

2. THE DUTY OF THE ENGINEER OR OWNER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON, OR NEAR THE CONSTRUCTION SITE.

CONTRACTOR CAUTION!! VERIFY SEWER LINE ELEVATION

BEFORE STARTING ANY BUILDING PAD GRADING AND PLUMBING WORK THE CONTRACTOR SHALL FIELD VERIFY LOCATION, MATERIAL, CONDITION, ACCESSIBILITY (INCLUDING STATE HIGHWAY OR OTHER RIGHTS-OF-WAY) AND WORKABLE FLOW LINE ELEVATION OF THE EXISTING SANITARY SEWER SERVICE LINE OR MAIN.

IF A WORKABLE FLOW LINE HAS NOT BEEN ESTABLISHED AT THE TIME OF FINAL SANITARY SEWER SERVICE CONNECTION. THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXPENSES ASSOCIATED WITH THE INSTALLATION OF A NEW GRINDER PUMP SYSTEM TO MEET OWNER AND LOCAL REQUIREMENTS.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND MOVE ANY AFFECTED UTILITIES. THE ENGINEER DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN ON THESE PLANS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE CITY OF SPRINGFIELD, MO OR OTHER SUPPLIERS OF UTILITIES AND ARRANGE FOR ANY NECESSARY MODIFICATIONS REQUIRED TO FACILITATE CONSTRUCTION ACTIVITIES.

SPECIAL NOTE:
CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT ENGINEER WITH ANY CONFLICTS.

UTILITY GENERAL NOTES

1. WATER LINES SHALL HAVE A MIN. 10 FEET HORIZONTAL CLEARANCE AND 18 INCHES VERTICAL CLEARANCE (MEASURED FROM EDGE OF PIPE TO EDGE OF PIPE) FROM ALL SANITARY SEWER LINES.

2. WATER LINES SHALL HAVE A MINIMUM OF 48 INCHES OF COVER, UNLESS OTHERWISE NOTED, MEASURED FROM THE TOP OF FINISHED GROUND TO THE TOP OF PIPE.

3. THERE SHALL BE A MINIMUM OF 18 INCHES CLEARANCE MEASURED FROM THE BOTTOM OF ANY STORMWATER PIPE TO THE TOP OF WATER LINES AT ALL CROSSING.

4. AT WATER AND SANITARY SEWER CROSSINGS, THE FULL LENGTH OF WATER PIPE SHALL BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM SEWER AS POSSIBLE. SPECIAL STRUCTURAL SUPPORT FOR THE WATER AND SEWER PIPES MAY BE REQUIRED.

5. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.

6. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND /OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

7. NOTICE TO CONTRACTOR:PRIOR TO INSTALLATION OF WATER LINE, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND ANDERSON ENGINEERING OF ANY CONFLICTS PRIOR TO CONSTRUCTION.

8. COORDINATE ALL CONSTRUCTION WITH THE CITY OF SPRINGFIELD. ALL SANITARY SEWER AND WATER LINE CONSTRUCTION MUST COMPLY WITH THE CITY OF SPRINGFIELD, MO STANDARDS.

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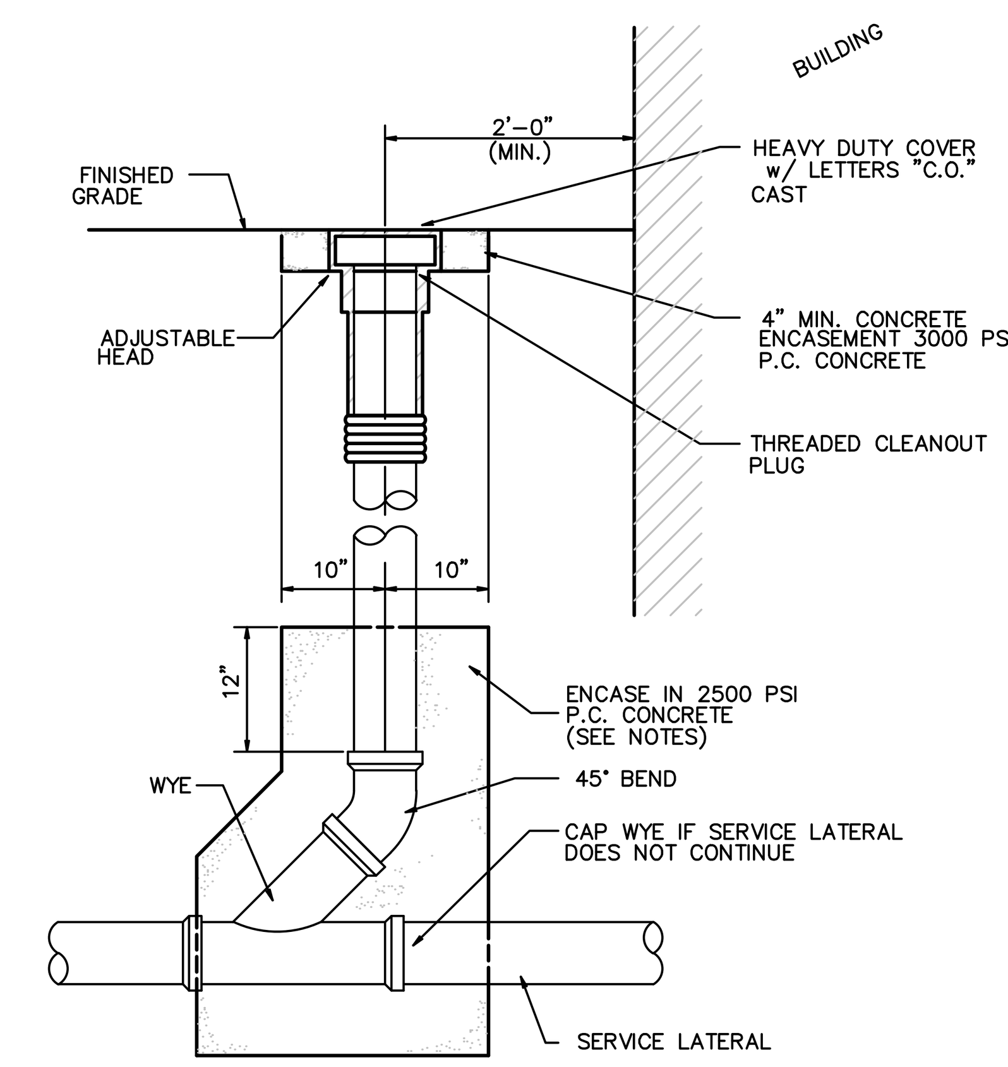
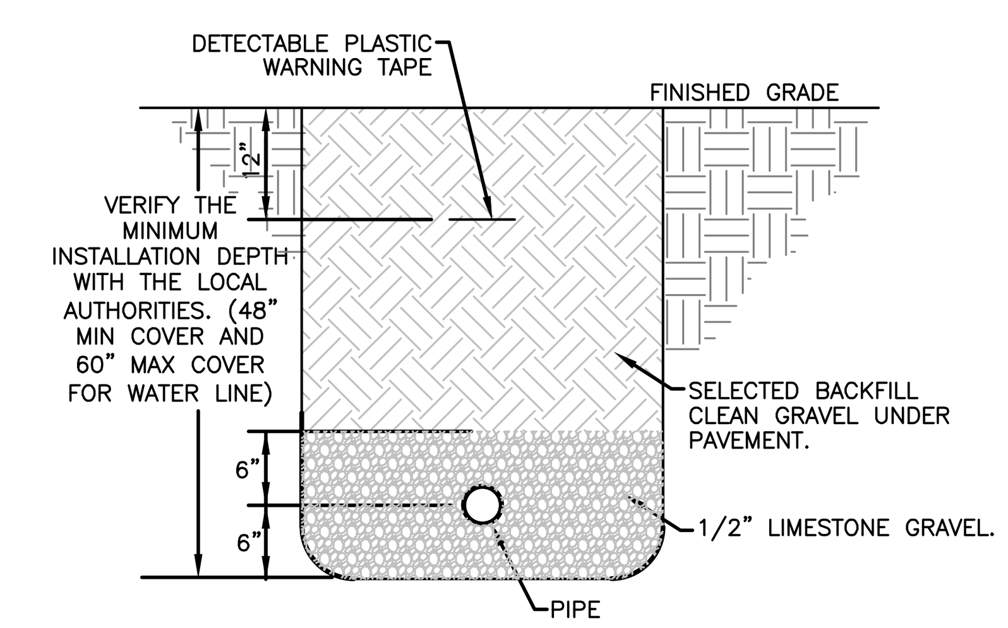


NOTE:
1. ALL LATERALS SHALL HAVE A ONE-WAY CLEAN-OUT EVERY EVERY 50' OR A TWO-WAY CLEAN-OUT EVERY 100'.
2. IF THE SERVICE LATERAL IS LESS THAN 12' DEEP, THE CONCRETE ENCASEMENT IS NOT REQUIRED.

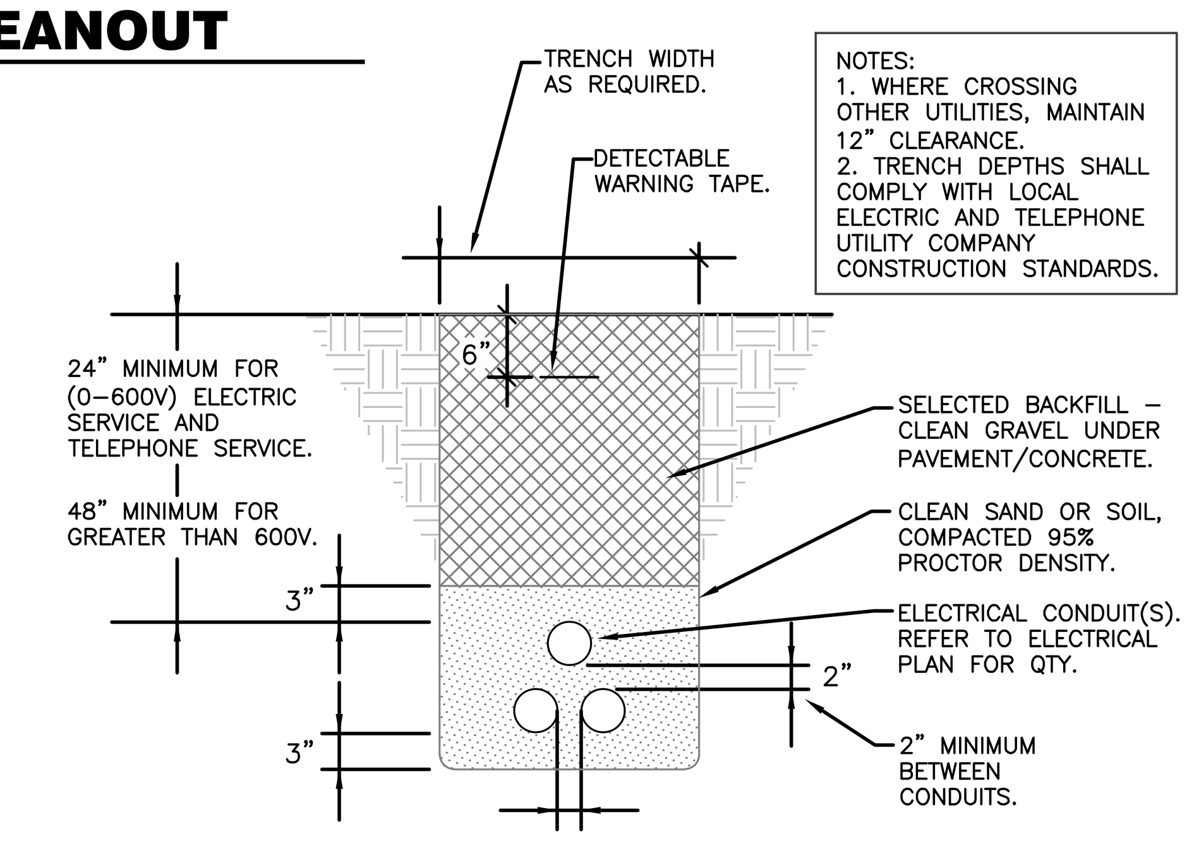
2 SANITARY SEWER CLEANOUT

C1.5 SCALE: NOT TO SCALE



3 PIPE INSTALLATION DETAIL

C1.5 SCALE: NOT TO SCALE



NOTES:
1. WHERE CROSSING OTHER UTILITIES, MAINTAIN 12" CLEARANCE.
2. TRENCH DEPTHS SHALL COMPLY WITH LOCAL ELECTRIC AND TELEPHONE UTILITY COMPANY CONSTRUCTION STANDARDS.

4 UNDERGROUND ELECTRICAL CONDUITS

C1.5 SCALE: NOT TO SCALE

NEW UTILITIES SYMBOLS

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

—— G ——	GAS SERVICE
—— W ——	WATER SERVICE
—— FS ——	FIRE SERVICE
—— SS ——	SANITARY SEWER SERVICE
—— UGE ——	U/G ELECTRIC
—— UT ——	U/G PHONE
—— T ——	U/G PHONE (BY PHONE CO.)
—— OHE ——	OVERHEAD ELECTRIC
—— OHT ——	OVERHEAD PHONE
—— FO ——	FIBER OPTIC CABLE
(hatched)	SAW CUT
(hatched)	BORE

P.O.C. = POINT OF CONNECTION BETWEEN SITE PIPING (SPEC 33 00 00) AND BUILDING PIPING (SPEC 22 00 00, 21 13 13). AS NECESSARY - SPEC 22 00 00 DENOTES LANDSCAPE IRRIGATION.

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SEAL
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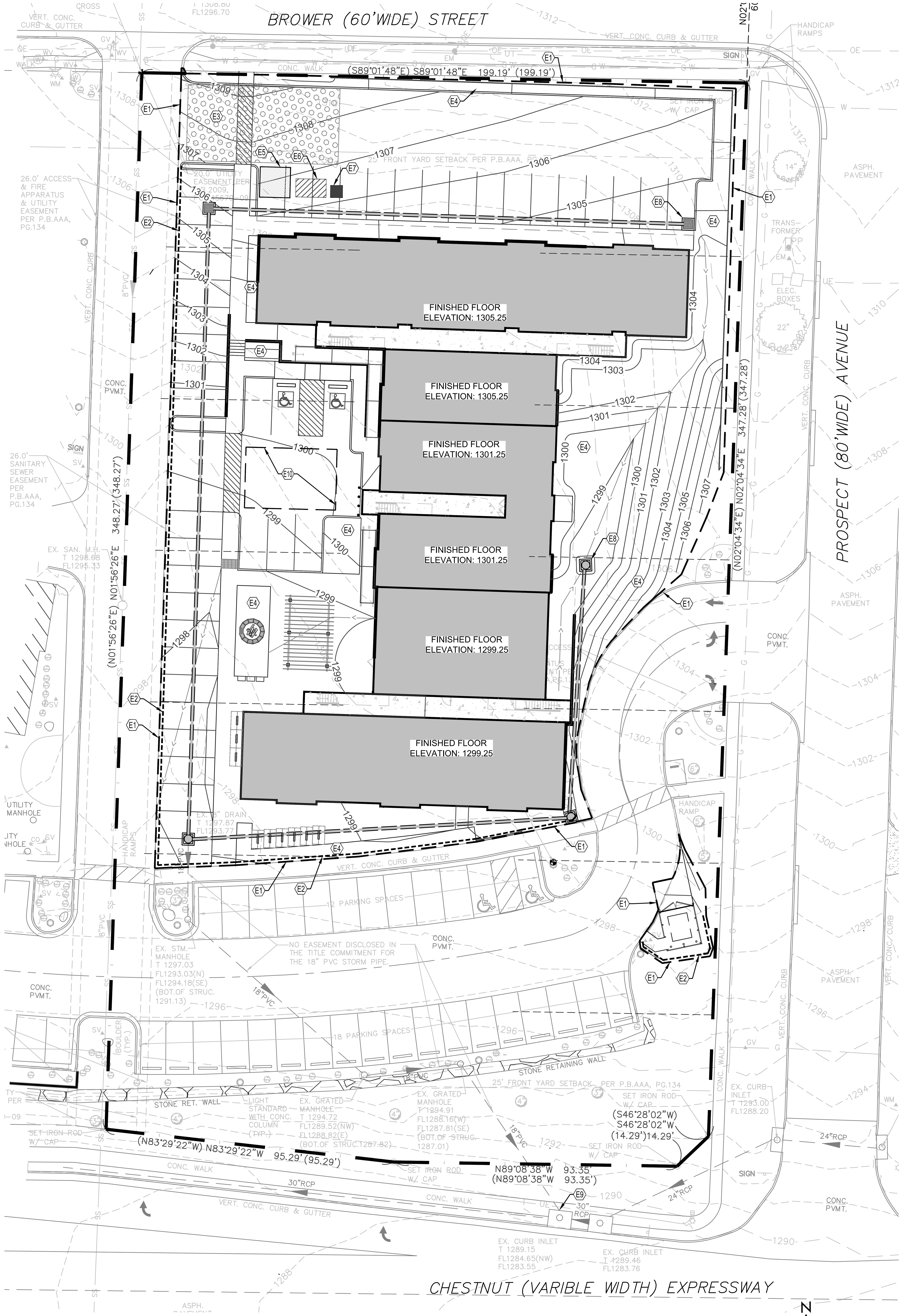
PE# 2016017614
STATE OF MISSOURI JARED M. DAVIS NUMBER PE-2016017614 PROFESSIONAL ENGINEER

SITE UTILITY PLAN

ISSUE DATE:
2.4.2019
REVISIONS:

PROJECT NO.: 1817

C1.5



1 **STORMWATER POLLUTION PREVENTION PLAN**
C1.6 SCALE: 1" = 20'

20 0 20 40 60
GRAPHIC SCALE - FEET

LAND DISTURBANCE SUMMARY:

TOTAL PROPERTY AREA= 1.62 ACRES
TOTAL DISTURBED AREA = 0.98 ACRES

OWNER:

TAMMI CREASON
CREASON DEVELOPMENT
1900 E LARK LANE
NIXA, MO 65714
P: (417) 224-3035

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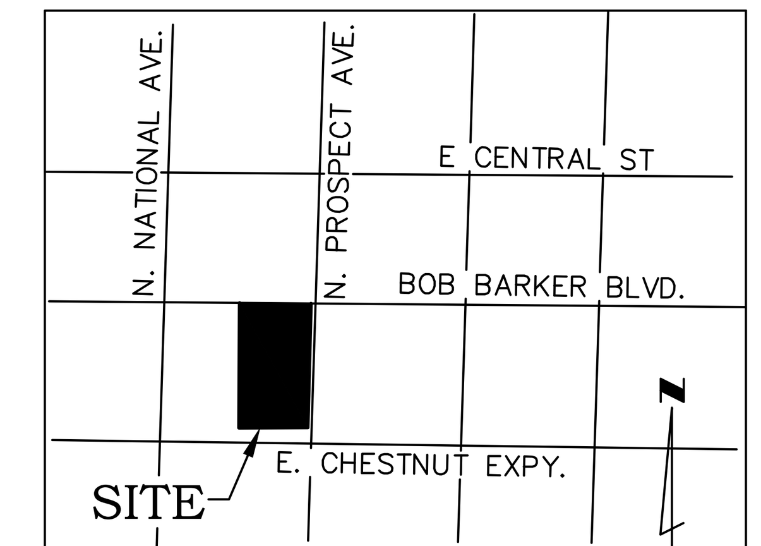

LOCATION MAP
NOT TO SCALE

EROSION CONTROL & MAINTENANCE PLAN NOTES:

1. CONTRACTOR TO RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
3. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
4. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
5. CARE SHALL BE TAKEN TO ELIMINATE TO THE MAXIMUM EXTENT POSSIBLE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
6. REMOVE SEDIMENT DEPOSITS AS NECESSARY AFTER EACH STORM TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. CARE NEEDS TO BE TAKEN TO AVOID UNDERMINING THE FENCE WHEN REMOVING SEDIMENT. SEDIMENT IS TO BE REAPPLIED TO THE SITE AND STABILIZED.
7. ALL GRASS SLOPES WHICH EXCEED 3:1 (H:V) AND SELECT PIPE OUTFALLS SHALL UTILIZE CONTECH CONSTRUCTION PRODUCTS PERMANENT TURF REINFORCEMENT MATS 450 OR APPROVED EQUAL. MATS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION INSPECTION WITH MANUFACTURER.
8. CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARD GENERAL CONIDTIONS AND TECHNICAL SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION FOR THE CITY OF SPRINGFIELD, MISSOURI.
9. APPLICABLE PERMITS MUST BE OBTAINED FROM THE CITY, STATE AND COUNTY PRIOR TO EXCAVATION WITHIN ANY RIGHT-OF-WAY, AND PRIOR TO ANY CONSTRUCTION.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE LOCATION OF ANY UNDERGROUND UTILITIES OR OTHER OBSTRUCTIONS AND TO BE LIABLE FOR DAMAGE AND CONSEQUENT REPAIR TO SUCH IN THE COURSE OF HIS OPERATIONS.
11. THE CONTRACTOR AND/OR BUILDER WILL KEEP THE SUBDIVISION NEAT AND ORDERLY AT ALL TIMES WHILE CONSTRUCTION IS TAKING PLACE. ALL CITY STREETS ADJACENT TO THE DEVELOPMENT SHALL BE KEPT CLEAR OF MUD, ROCK, DIRT, DEBRIS, PAPER AND WASTE MATERIAL AT ALL TIMES. THE PROPER AMOUNT OF INSPECTION SHALL BE CALLED FOR AT THEIR PROPER TIMES, OR ANY AND ALL WORK MAY BE REJECTED.
12. IF ANY WORK OR ACCESS TO ANY ADJOINING PROPERTY IS DONE, IT IS THE FULL RESPONSIBILITY FOR THE APPLICANT/OWNER TO OBTAIN PROPER RELEASES FROM ADJOINING PROPERTY OWNERS AND ASSUME ALL LIABILITY FOR ACTION TAKEN DURING ALL CONSTRUCTION.
13. ALL DISTURBED AREAS ARE TO BE RESEEDED IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE CITY OF SPRINGFIELD DESIGN STANDARDS FOR PUBLIC IMPROVEMENTS.
14. PROVIDE TEMPORARY EROSION CONTROL TO CONTAIN ALL SOILS ON SITE. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
15. THE DETENTION BASIN, ALL WATER QUALITY MEASURES AND STORMWATER CHANNELS(PIPES) SHALL BE FUNCTIONING PRIOR TO STARTING ANY OTHER CONSTRUCTION ACTIVITIES. I.E., ONLY CONSTRUCTION ACTIVITIES REQUIRED TO INSTALL THE DETENTION BASIN, ALL WATER QUALITY MEASURES AND STORMWATER CHANNELS(PIPES) ARE ALLOWED UNTIL THESE ITEMS ARE INSTALLED AND APPROVED.
16. CONSTRUCTION ACCESS TO THE SITE SHALL BE LIMITED TO THE APPROVED TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON THE STORMWATER POLLUTION PREVENTION PLAN.
17. PRIOR TO CONSTRUCTION, THE OWNER SHALL CONVENE A PRE-CONSTRUCTION MEETING BETWEEN THE CITY OF SPRINGFIELD, CONSULTING ENGINEER, CONTRACTOR(S) AND ANY OTHER AFFECTED PARTIES.
18. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE WHOLE CONSTRUCTION PERIOD BY THE CONTRACTOR.
19. CONTRACTOR TO PROTECT ANY STORM INLETS THAT RECEIVE STORM WATER FROM THE AREA OF CONSTRUCTION FROM SEDIMENT.
20. CONTRACTOR TO TAKE CARE NOT TO DAMAGE ANY EXISTING STREET, CURB AND GUTTER, SIDEWALK AND DRIVEWAYS.
21. THE CONTRACTOR SHALL HAVE A SET OF PLANS FILED WITH THE CITY OF SPRINGFIELD ON SITE. THE CONTRACTOR SHALL HAVE ON THE PROJECT AT ALL TIMES, AS HIS AGENT, A COMPETENT SUPERINTENDENT CAPABLE OF READING AND THOROUGHLY UNDERSTAND THE PLANS AND SPECIFICATIONS AND THOROUGHLY EXPERIENCE IN THE TYPE WORK BEING PERFORMED WHO SHALL RECEIVE INSTRUCTIONS FROMTHE ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
22. THE CONTRACTOR SHALL NOTIFY THE INSPECTOR OF ANY NEW SINKHOLES DISCOVERED DURING CONSTRUCTION.
23. TEMPORARY CONSTRUCTION ENTRANCE TO HAVE SHOT ROCK FOR ITS SURFACE.
24. THE INSTALLATION OF SILT FENCE FOR CONSTRUCTION IS TO BE INSTALLED BY THE CONTRACTOR AND IN PLACE BEFORE BEGINNING SITE CONSTRUCTION. SIMILAR DEVICES MAY BE USED BY THE CONTRACTOR TO MEET THE REQUIREMENTS OF THE ENGINEER. DEVICES TO BE IN PLACE AS SHOWN ON THE PLANS. ADJUSTMENT OF THE LOCATION BY THE CONTRACTOR MAY BE DONE TO MEET EXISTING FIELD CONDITIONS. ALL CONTROLS ARE TO BE LACED WITHIN OWNER'S PROPERTY. ACCUMULATED SEDIMENT IN BASINS WILL REQUIRE REMOVAL DURING CONSTRUCTION OR AFTER EACH RAIN EVENT AND AT THE END OF CONSTRUCTION. EACH BASIN SHALL BE CHECKED AFTER EACH RAIN EVENT. CONTRACTOR TO MINIMIZE THE AREA DISTURBED BY CONSTRUCTION ACTIVITIES AT ANY ONE TIME AND TO PROMPTLY REVEGETATE (OR MECHANICALLY STABILIZE) ARE DISTURBED BY CONSTRUCTION ACTIVITY.
25. SILT FENCE SHALL BE PLACED AROUND ALL SOIL SPOIL PILES TO PREVENT EROSION.

SEEDING AND MULCHING NOTES

SEEDING
INSTALL UPSTREAM BMPS TO PROTECT AREA TO BE SEEDED. COMPLETE GRADING AND REMOVE ALL DEBRIS LARGER THAN 1 INCH. LOOSEN COMPACTED SOILS TO A DEPTH OF 4 INCHES. GROOVE OR FURROW ON THE CONTOUR IF NECESSARY. SPREAD LOOSE TOPSOIL AT A DEPTH OF 4 INCHES. MIX SOIL AMENDMENTS (LIME, FERTILIZER, ETC.) INTO THE TOP 4 INCHES OF SOIL. PLANT SEED ¼ TO ½ INCHES DEEP USING A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDRO-SEEDER. ROLL LIGHTLY TO FIRM SURFACE. COVER SEEDED AREA WITH MULCH. INSTALL ADDITIONAL STABILIZATION (EROSION CONTROL BLANKETS, NETTING, BONDED FIBER MATRIX, ETC.) ON SLOPES STEEPER THAN 3:1 AND IN AREAS OF CONCENTRATED FLOW. WATER IMMEDIATELY-ENOUGH TO SOAK 4 INCHES INTO THE SOIL WITHOUT CAUSING RUNOFF.

TOPSOIL REQUIREMENTS
PERMANENT AND TEMPORARY SEEDING: LOOSEN COMPACTED SOILS TO A DEPTH OF 4 INCHES. IF RAINFALL CAUSES SURFACE TO BECOME SEALED OR CRUSTED, LOOSEN IT JUST PRIOR TO SEEDING. SLOPES STEEPER THAN 33 PERCENT (3:1) GRADE SHOULD BE GROOVED OR FURROWED ON THE CONTOUR BEFORE SEEDING. A GOOD SEEDBED IS WELL PULVERIZED, LOOSE AND UNIFORM. PERMANENT SEEDING: A MINIMUM OF 4 INCHES OF LOOSE TOPSOIL SHOULD BE SPREAD ON AREAS TO BE SEEDED.

LIME REQUIREMENTS
PERMANENT AND TEMPORARY SEEDING: LIME SHOULD BE APPLIED ACCORDING TO SOIL TEST RECOMMENDATIONS. IF THE pH OF THE SOIL IS UNKNOWN, LIME SHALL BE INCORPORATED INTO THE TOP 4 INCHES OF SOIL AT A RATE OF 1500 POUNDS EFFECTIVE NEUTRALIZING MATERIAL (ENM) PER ACRES. SOILS WITH A pH OF SIX OR HIGHER NEED NOT BE LIMED.

FERTILIZER REQUIREMENTS
PERMANENT SEEDING: FERTILIZER SHOULD BE APPLIED BASED ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE A 13-13-13 GRADE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 4 INCHES OF SOIL AT THE RATE OF 500 POUNDS PER ACRE.
TEMPORARY SEEDING: FERTILIZER SHOULD BE APPLIED BASED ON SOIL TESTS. WHEN THESE ARE NOT POSSIBLE, A 10-10-10 GRADE FERTILIZER SHALL BE INCORPORATED INTO THE TOP 4 INCHES OF SOIL AT THE RATE OF 200 POUNDS PER ACRE.

SEED REQUIREMENTS
PERMANENT SEEDING: SEED MIX SHALL CONSIST OF NINETY PERCENT (90%) TALL FESCUE AND TEN PERCENT (10%) ANNUAL RYEGRASS. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 400 POUNDS PER ACRE.
TEMPORARY SEEDING: SEED MIX SHALL CONSIST OF ANY COMBINATION OF TALL FESCUE, ANNUAL RYEGRASS, SUDAN, MILLET, WHEAT OR OATS. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 200 POUNDS PER ACRE.
DORMANT SEASON SEEDING: SEED MIX SHALL CONSIST OF 80 PERCENT (80%) TALL FESCUE, TEN PERCENT (10%) ANNUAL RYEGRASS AND TEN PERCENT (10%) SPRING OATS. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 600 POUNDS PER ACRE.

MULCH REQUIREMENTS
PERMANENT AND TEMPORARY SEEDING: WHERE SLOPES ARE LESS THAN 25 PERCENT (4:1) GRADE, CEREAL GRAIN MULCH IS REQUIRED AT THE RATE OF 100 POUNDS PER 1,000 SQUARE FEET (4,500 LBS/ACRE). CEREAL GRAIN MULCH SHALL MEET THE REQUIREMENTS OF SECTION 802 OF THE MISSOURI STATE SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR TYPE I MULCH. WHERE SLOPES ARE 25 PERCENT (4:1) OR GREATER GRADE, TYPE 3 MULCH (HYDROMULCH) MEETING THE REQUIREMENTS OF SECTION 802 OF THE STATE SPECIFICATIONS SHALL BE USED. TYPE 3 MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 2,000 LBS/ACRE.

DATES FOR SEEDING
PERMANENT SEEDING: MARCH 1 TO JUNE 1 AND AUGUST 15 TO NOVEMBER 1
TEMPORARY SEEDING: CAN OCCUR DURING ANY SEASON, HOWEVER WINTER IS THE LEAST TOLERANT.
DORMANT SEASON SEEDING: DECEMBER 15 TO FEBRUARY 29

HYDROSEEDING
TO SELECT APPROPRIATE HYDROSEEDING MIXTURES, AN EVALUATION OF SITE CONDITIONS SHALL BE PERFORMED WITH RESPECT TO: SOIL CONDITIONS, SITE TOPOGRAPHY, SEASON AND CLIMATE, VEGETATION TYPES, MAINTENANCE REQUIREMENTS, SENSITIVE ADJACENT AREAS, WATER AVAILABILITY, AND PLANS FOR PERMANENT VEGETATION. HYDROSEEDING CAN BE ACCOMPLISHED USING A MULTIPLE-STEP OR ONE-STEP PROCESS. THE MULTIPLE-STEP PROCESS ENSURES MAXIMUM DIRECT CONTACT OF THE SEEDS TO SOIL. WHEN THE ONE-STEP PROCESS IS USED TO APPLY THE MIXTURE OF SEED, FIBER, ETC., THE SEED RATE SHALL BE INCREASED TO COMPENSATE FOR ALL SEEDS NOT HAVING DIRECT CONTACT WITH THE SOIL. FOLLOW-UP APPLICATIONS SHALL BE MADE AS NEEDED TO COVER WEAK SPOTS.

KEY NOTES:

- E1 LIMITS OF LAND DISTURBANCE. PERMITTED DISTURBED AREA = 0.98 ACRES
- E2 INSTALL 12" COMPOST FILTER SOCK: OR APPROVED EQUAL. SEE DETAIL 1/C1.7.
- E3 INSTALL TEMPORARY CONSTRUCTION EGRESS: COORDINATE LOCATION WITH CONTRACTOR. EGRESS REQUIRED AT ALL POINTS OF EGRESS FROM SITE TO PUBLIC RIGHT-OF-WAY. CONTRACTOR TO ADD ADDITIONAL EGRESS AS REQUIRED. SEE DETAIL 2/C1.7.
- E4 AREAS TO BE VEGETATED: ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE SEED AND STRAW MULCH, UNLESS OTHERWISE NOTED, OVER MIN. 4" TOPSOIL STOCKPILED HAULED IN AS APPROVED BY THE PROJECT MANAGER. SEE SEEDING NOTES.
- E5 INSTALL 10' X 10' CONCRETE WASHOUT AREA: VERIFY LOCATION WITH CONTRACTOR. SEE DETAIL 3/C1.7.
- E6 INSTALL DUMPSTER AND CONTACT TRASH COMPANY FOR PICK UP
- E7 INSTALL PORTABLE TOILET AND STAKE FIRMLY TO GROUND
- E8 INSTALL INLET SEDIMENT FILTER PER DETAIL 4/C1.7.
- E9 LOCATION OF OUTFALL 001.
- E10 TEMPORARY STOCKPILE LOCATION TO BE SURROUNDED BY 12" COMPOST FILTER SOCK. REFER TO DETAIL 1/C1.7.

BMP LEGEND

Symbol	Description
—1300— (light)	EXISTING GRADE LINES
—1300— (bold)	PROPOSED GRADE LINES
— — —	LIMITS OF DISTURBED AREA
—o—	SILT FENCE
(open square)	CONCRETE WASHOUT
(shaded square)	PORTABLE TOILET
(hatched square)	DUMPSTER

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ANDERSON COA# 000062 • JARED M. DAVIS, PE# 2016017614

SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
CIVIL ENGINEER - JARED M. DAVIS
PE# 2016017614

STATE OF MISSOURI
JARED M. DAVIS
NUMBER
PE-2016017614
PROFESSIONAL ENGINEER

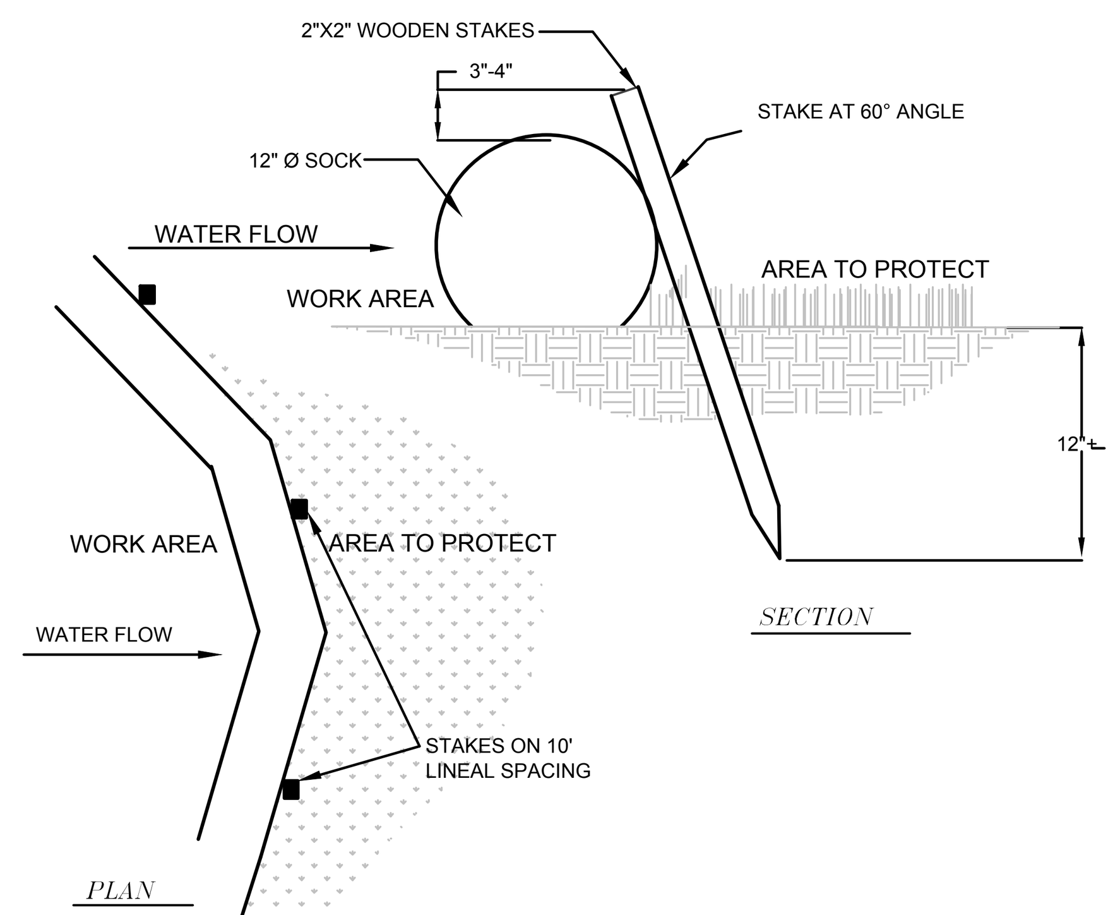
STORMWATER POLLUTION PREVENTION PLAN

ISSUE DATE:
2.4.2019

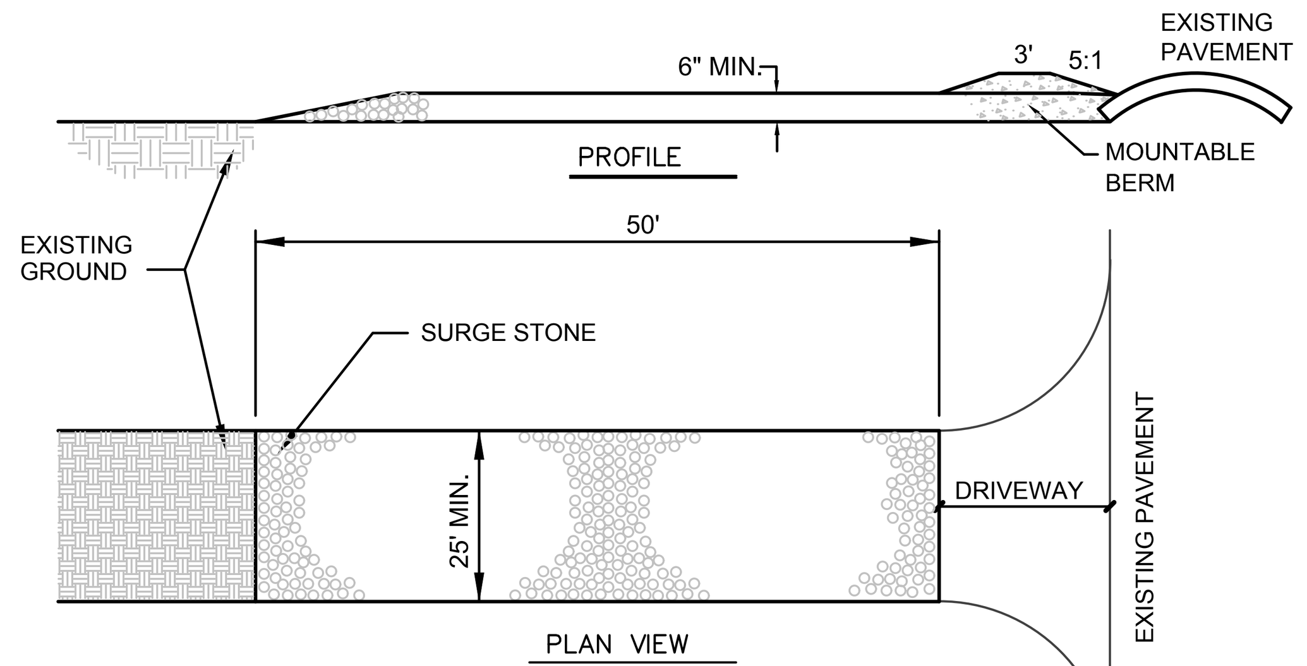
REVISIONS:

PROJECT NO.: 1817

C1.6

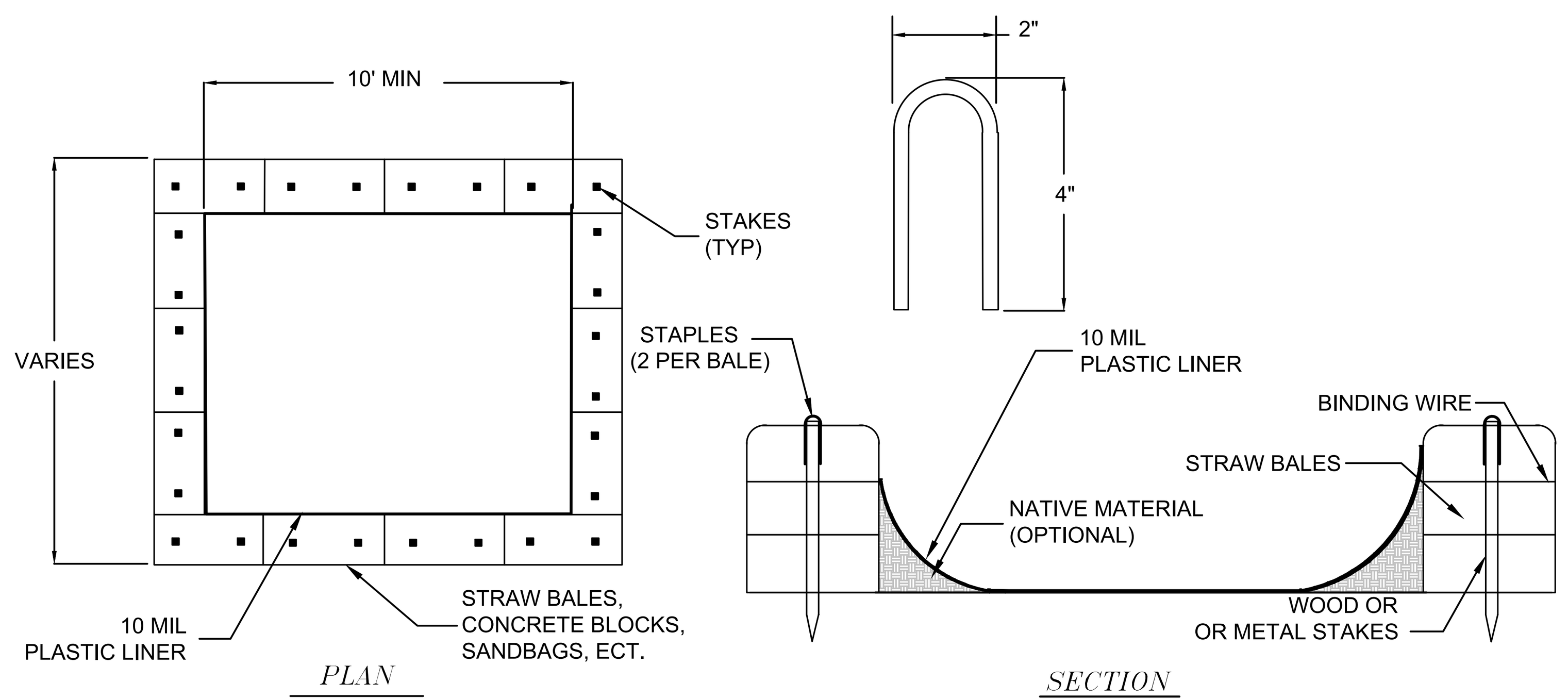


1 **COMPOST FILTER SOCK**
C1.7 SCALE: NOT TO SCALE



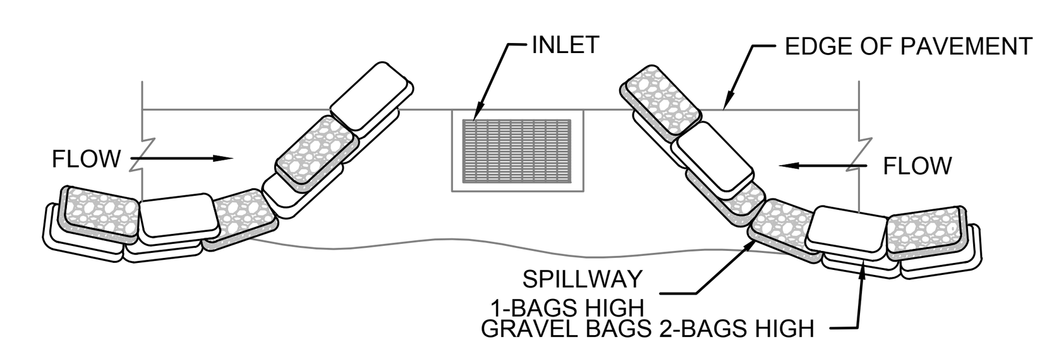
1. STONE SIZE - USE 3-6" STONE, OR EQUAL
2. MIN. LENGTH - 50 FEET.
3. MIN. THICKNESS - SIX(6) INCHES.
4. WIDTH - TWENTY FIVE (25) FOOT MINIMUM
5. FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. SURFACE WATER - ALL SURFACE WATER FLOWING TOWARD THE CONSTRUCTION EGRESS SHALL BE DIVERTED EITHER BY PIPE OR SWALES TO PREVENT THE WASHOUT OF THE EGRESS.
7. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQURE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

2 **CONSTRUCTION EGRESS DETAIL**
C1.7 SCALE: NOT TO SCALE

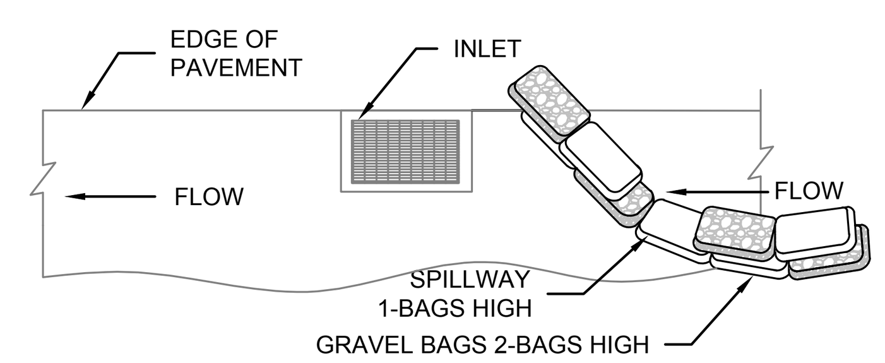


NOTES:
1. ACTUAL LAYOUT DETERMINED IN FIELD
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY

3 **CONCRETE WASHOUT**
C1.7 SCALE: NOT TO SCALE

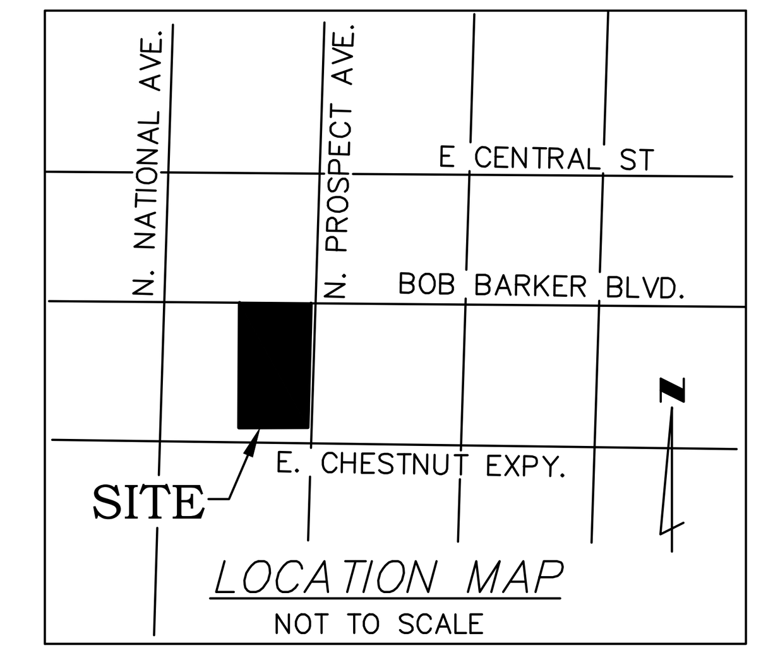


TYPICAL PROTECTION FOR INLET ON SUMP



TYPICAL PROTECTION FOR INLET ON GRADE

4 **INLET PROTECTION**
C1.7 SCALE: NOT TO SCALE



LOCATION MAP
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Y GARDENS APARTMENTS
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SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

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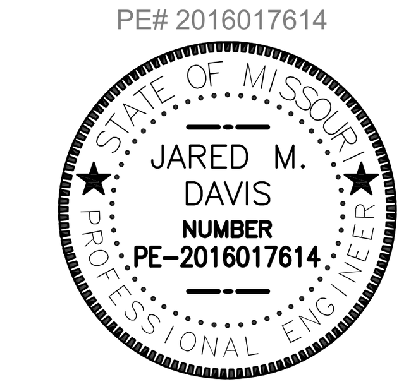

STORMWATER POLLUTION PREVENTION DETAILS

ISSUE DATE:
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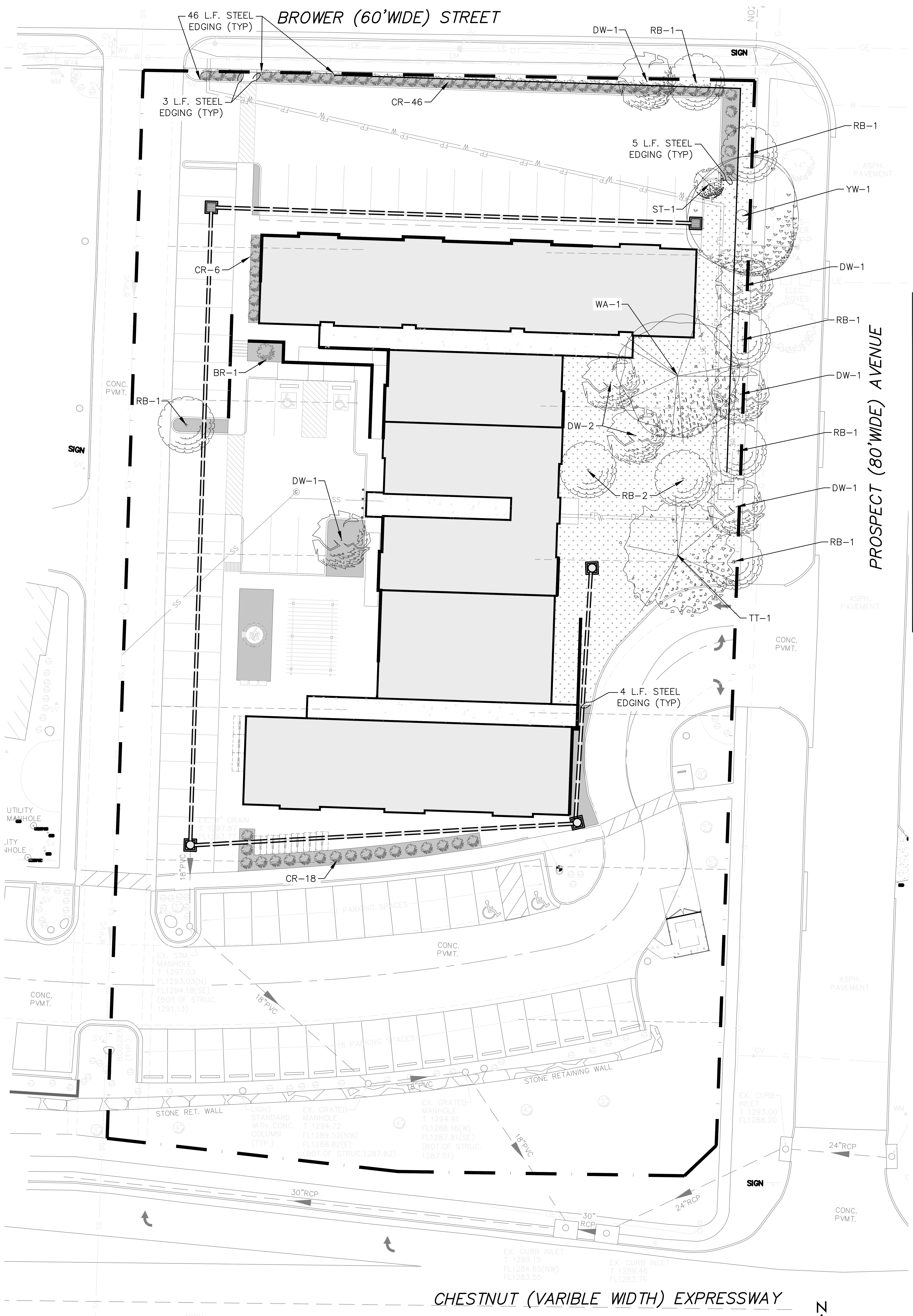
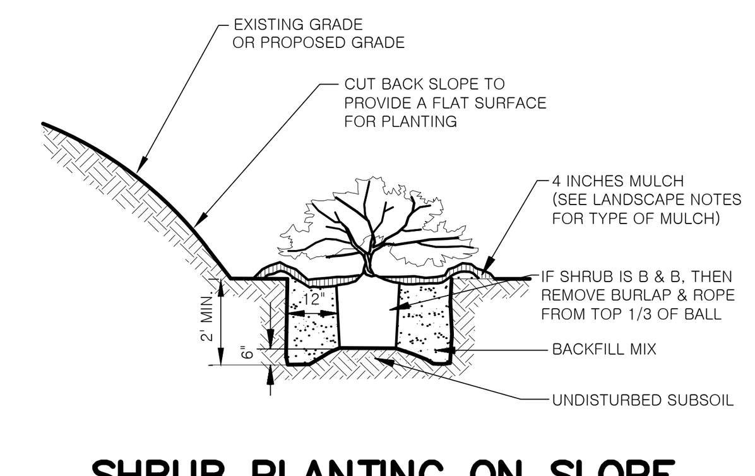
C1.7

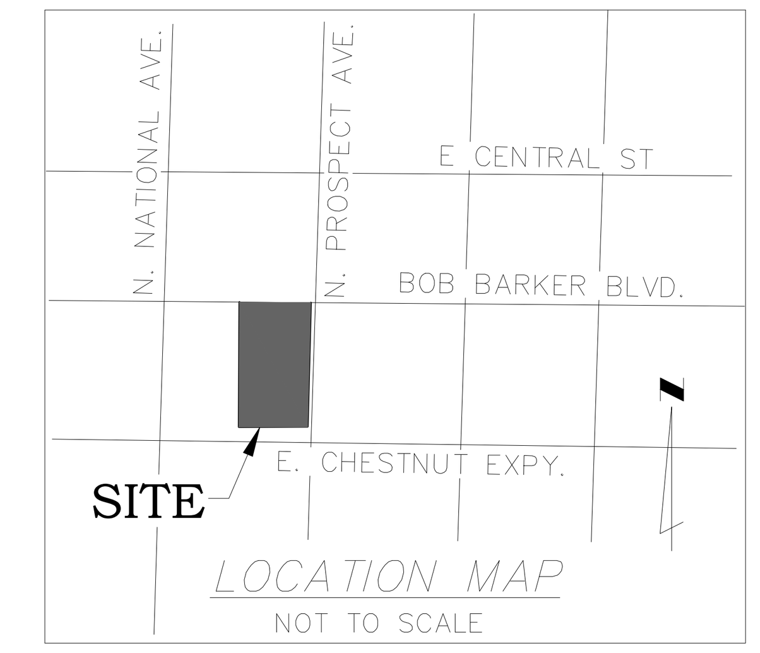


1 **LANDSCAPE PLAN**
L1.1 SCALE: 1" = 20'

GRAPHIC SCALE – FEET (20, 0, 20, 40, 60)



SHRUB PLANTING ON SLOPE AE-L5
N.T.S.



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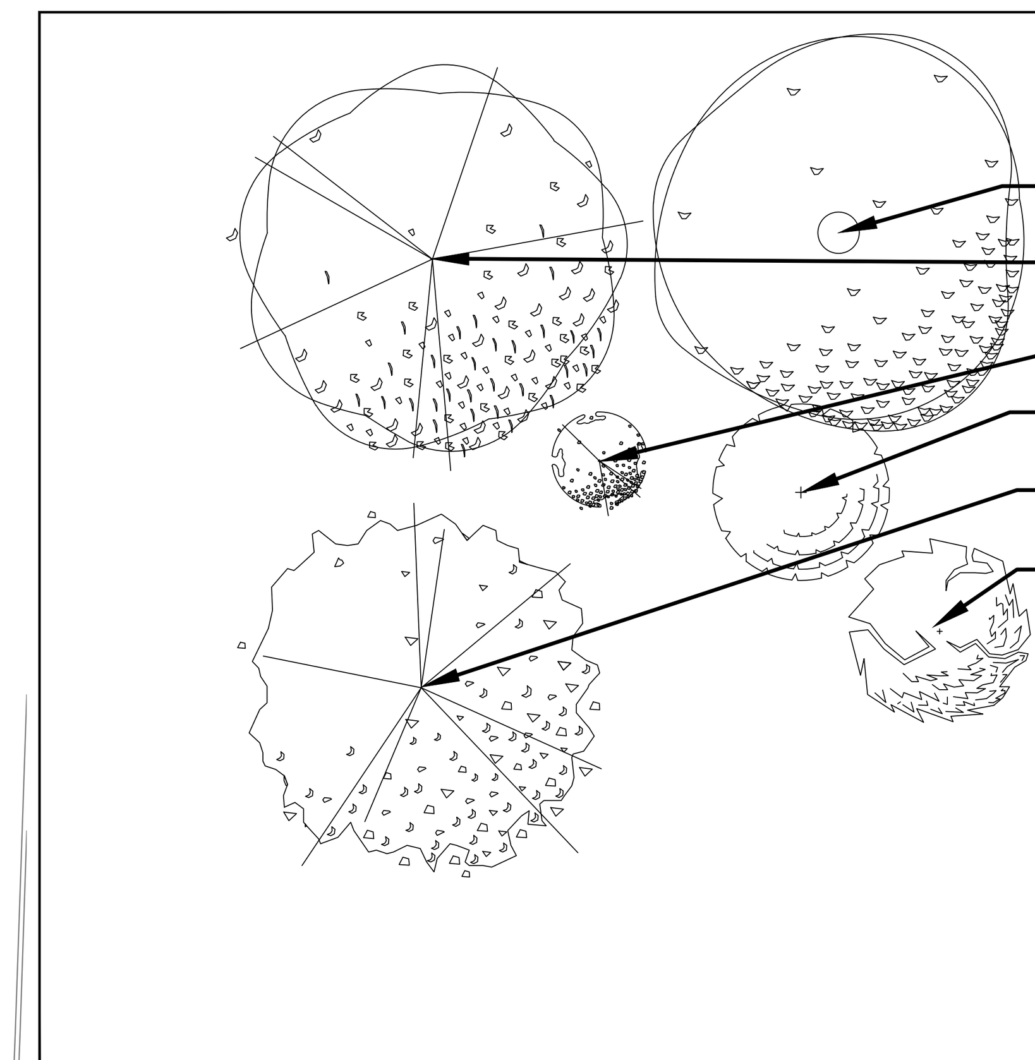


PLANT SCHEDULE

SYM.	KEY	QTY	COMMON NAME / Botanical Name	SIZE | SPACING | COMMENTS
	YW	1	YELLOWWOOD / Cladrastis lutea	B&B, 1.5" CAL
	WA	1	WHITE ASH / Fraxinus americana	B&B, 1.5" CAL
	ST	1	SMOKETREE / Cotinus coggyria	B&B, 1" CAL
	RB	8	EASTERN REDBUD / Cercis canadensis	B&B, 1" CAL
	TT	1	TULIP TREE / Liriodendron tulipifera	B&B, 1.5" CAL
	DW	7	FLOWERING DOGWOOD / Cornus florida	B&B, 1" CAL
	CR	70	CAROLINA RHODODENDRON / Rhododendron carolinianum	18" TALL, SPACED AS SHOWN
	BR	1	BLUE RUG JUNIPER / Juniperus Horizontalis	PROVIDE REASONABLY COMPLETE COVERAGE WITHIN ONE YEAR OF PLANTING

1. H: HEIGHT, CP: CALIPER, C: CONTAINER, MT: MULTI–TRUNK, B&B: BALLED & BURLAPPED ROOT BALL
2. O.C.: INDICATES APPROXIMATE SPACING. SHALL BE CONSIDERED GENERAL GUIDELINE ONLY AND MAY BE MODIFIED TO SUIT ON–SITE CONDITIONS.

PROPOSED LANDSCAPE FEATURES

- STEEL EDGING
- HARDWOOD MULCHED AREA.
- NATIVE, DROUGHT TOLERANT, SODDED TURF AREA.

CITY OF SPRINGFIELD LANDSCAPE REQUIREMENTS

LANDSCAPE AREA	REQUIREMENT	REQUIRED	PROVIDED
SCREENING & FENCING	WHERE AN OPEN OFF–STREET PARKING OR VEHICULAR USE AREA FOR A RESIDENTIAL USE CONTAINS FOUR OR MORE OFF–STREET PARKING SPACES AND IS IN OR ADJACENT TO AN R–SF, R–TH, OR R–MHC DISTRICT, SCREENING OF NOT LESS THAN FOUR FEET IN HEIGHT AND MEETING THE REQUIREMENTS OF SUBSECTION 36–453(6), SHALL BE ERECTED SEPARATING THE USE FROM THE ADJACENT RESIDENTIAL DISTRICT OR RESIDENTIAL USE.	214 L.F. 4' TALL SCREEN ALONG THE NORTH AND EAST SIDES	SCREENING ALTERNATIVE D: 214 L.F. 4' TALL SCREEN (46 SHRUBS).
INTERIOR LANDSCAPING	SITES CONTAINING PARKING AND VEHICULAR USE AREAS TOTALING 30 OR MORE PARKING SPACES OR THE GROSS AREA IS 12,000 OR MORE SQUARE FEET SHALL PROVIDE INTERIOR LANDSCAPING. A MINIMUM OF FIVE PERCENT OF THE PARKING OR VEHICULAR USE AREA SHALL BE DEVOTED TO LIVING LANDSCAPING WHICH INCLUDES GRASS, GROUND COVER, PLANTS, SHRUBS, AND TREES.	5% OF 13,314 S.F. PARKING LOT = 666 S.F. OF INTERIOR GREEN SPACE REQUIRED.	415 S.F. OF INTERIOR GREEN SPACE PROVIDED
	THERE SHALL BE A MINIMUM OF TWO UNDERSTORY TREES OR ONE CANOPY TREE PLANTED FOR EACH 30 PARKING SPACES OR 12,000 SQUARE FEET OF PARKING OR VEHICULAR USE AREA, OR FRACTION THEREOF.	13,314 S.F. OF PARKING LOT = 1.11 MULTIPLYING FACTOR (2 UNDERSTORY OR 1 CANOPY TREE X 1.11) = 3 UNDERSTORY OR 2 CANOPY TREES REQUIRED	3 UNDERSTORY TREES PROVIDED
PERIMETER LANDSCAPING	THE PLANTINGS WITHIN THE PERIMETER LANDSCAPE AREA, ADJACENT TO PUBLIC R.O.W., SHALL CONSIST OF AT LEAST ONE CANOPY TREE, TWO UNDERSTORY, ORNAMENTAL, OR EVERGREEN TREE AND FOUR SHRUBS PER 100 LINEAR FEET OF PERIMETER	NORTH SIDE: 2 CANOPY, 4 ORNAMENTAL AND 7 SHRUBS FOR 175.50 L.F. EAST SIDE: 1 CANOPY, 2 ORNAMENTAL AND 4 SHRUBS FOR 43 L.F.	NORTH SIDE: 2 ORNAMENTAL AND 41 SHRUBS FOR 175.50 L.F. EAST SIDE: 1 CANOPY, 1 ORNAMENTAL AND 5 SHRUBS FOR 43 L.F.
	BUFFERYARD S3 AND 4' TALL HEADLIGHT SCREEN REQUIRED ALONG PROSPECT AND BOWER STREETS.	1 CANOPY, 3 UNDERSTORY AND 6 SHRUBS FOR EVERY 100 L.F. 440 L.F. OF FRONTAGE (MINUS DRIVE) = 4.4 CANOPY, 13.2 UNDERSTORY AND 40 SHRUBS HEADLIGHT SCREENING REQUIRED @ 4' TALL	3 CANOPY, 14 UNDERSTORY AND 214 L.F. 4' TALL SCREEN (46 SHRUBS).

GENERAL NOTES

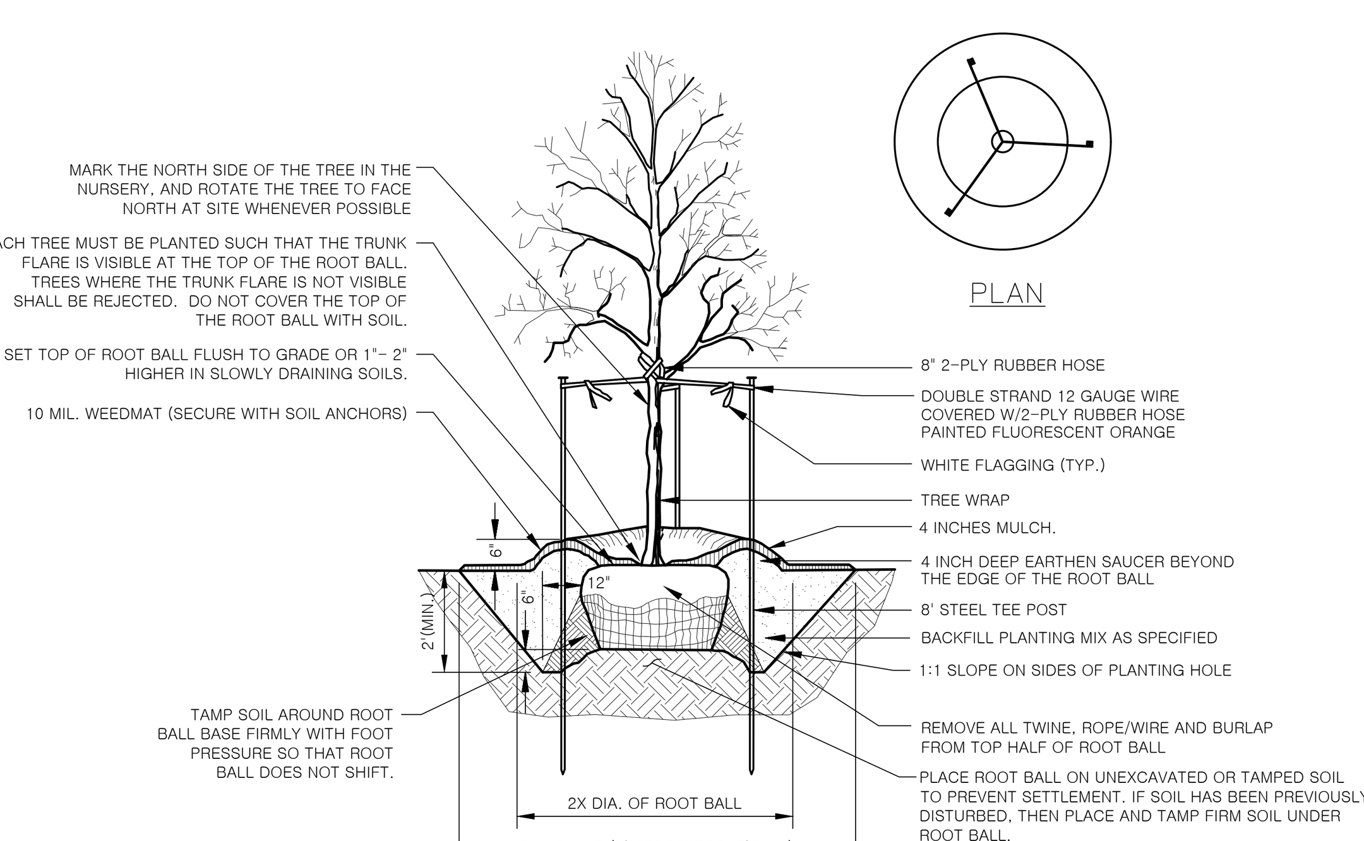
1. THE CONTRACTOR SHALL FOLLOW ALL LOCAL CODES THAT PERTAIN TO LANDSCAPE INSTALLATION, AND SHALL NOTIFY THE LANDSCAPE ARCHITECT (LA) OR DESIGNATED REPRESENTATIVE (DR) REGARDING ANY DISCREPANCIES BETWEEN LOCAL CODES, PLANS, AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL NOTIFY (LA) OR (DR) OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING.
3. THE CONTRACTOR SHALL VERIFY DEPTHS AND LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES, UNDERGROUND UTILITIES AND SITE LIGHTING CONDUITS WITHIN THE PROJECT SITE BEFORE LANDSCAPE CONSTRUCTION BEGINS.
4. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM RUBBISH AND ALL DEBRIS ASSOCIATED WITH THE WORK AT ALL TIMES. ALL UNUSED MATERIALS AND DEBRIS SHALL BE REMOVED FROM THE SITE.
5. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM A WATER PERMEABILITY TEST TO DETERMINE SOIL QUALITY. TEST IS PERFORMED BY DIGGING A SHARP SHOOTER SPADE 18" (INCHES) INTO THE GROUND. FILL THE HOLE WITH WATER. RETURN TO THE TEST SITE AFTER 18 HOURS TO VISUALLY CONFIRM IF THE HOLE STILL RETAINS WATER. IF THE HOLE RETAINS WATER, THE SOIL IS DETERMINED TO BE TO POOR FOR PLANTING CONDITIONS. TO REMEDY POOR SOIL CONDITIONS, THE CONTRACTOR SHALL BE REQUIRED TO OVER EXCAVATE THE SOIL TO THE DEPTH OF THE ROOT BALL AND REPLACE THE SOIL WITH QUALITY PLANTING SOIL AS SPECIFIED ON THE PLANS PRIOR TO PLANTING TREES OR SHRUBS.
6. ALL LANDSCAPE MATERIALS TO BE WATERED BY CONTRACTOR UNTIL ESTABLISHED.
7. PLANT MATERIAL:
   a. SHALL BE INSTALLED BY THE CONTRACTOR PER DETAILS (REFER TO DETAIL SHEETS) AND CLIENT'S SPECIFICATION OR REQUIREMENTS OF THE REGULATORY AUTHORITY HAVING JURISDICTION WHICHEVER IS MORE STRINGENT.
   b. THE CONTRACTOR ACCEPTS ALL LIABILITY FOR THE INSTALLATION LANDSCAPING DEPICTED ON THESE PLANS AND SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION LETTER IS ISSUED AND/OR ACCEPTANCE OF FINISHED JOB. ALL DEAD OR DAMAGED PLANT MATERIAL SHALL BE REPLACED ONE TIME WHEN DISCOVERED AT THE CONTRACTOR'S EXPENSE.
   c. QUALITY SHALL COMPLY TO THE HIGHEST STANDARDS IN THE NURSERY INDUSTRY. GRASS SOD AND PLANTS SHALL BE REASONABLY CLEAN AND FREE OF WEEDS, PESTS, DISEASES.
   d. SHALL NOT BE PLANTED IN FROZEN GROUND.
8. ANY EXISTING TREES DESIGNATED TO BE SAVED MUST BE PRESERVED DURING CONSTRUCTION.
9. ALL PLANTING BEDS AND TREE PLANTING PITS TO BE FILLED WITH A MIXTURE OF 30% COMPOST (COW, MUSHROOM OR COTTON BUR), 20% PEAT MOSS AND 50% TOPSOIL BY VOLUME. ALSO, MIX IN 1LB 10–20–10 SLOW RELEASE PLANT FERTILIZER PER 10 SQ FT. OR AS RECOMMENDED BY THE SOIL ANALYSIS.
10. STAKES FOR TREE SUPPORT SHALL BE STEEL "T" BAR FENCE POST, 6' LONG, PAINTED DARK GREEN WITH TOP 6" PAINTED WHITE. TREE TIE SYSTEMS SHALL BE EASILY ADJUSTABLE, STRONG IN ALL WEATHER, AND EASILY ATTACHED AND REMOVED. HOSE AND WIRE ARE NOT ACCEPTABLE FOR STAKED TREES. TREE TIE SYSTEMS SHALL BE 20" DEWITT (BLACK) TREE STRAP/SLING TSL–BX (60 PER CASE) OR APPROVED EQUAL–NO PLASTIC TIES ALLOWED. WIRE: 14 GAUGE ELECT. FENCE WIRE.
11. ALL PLANTING BEDS AS DESIGNATED ON THESE PLANS SHALL BE BORDERED BY ⅛" x 4" PAINTED BROWN STEEL EDGING AND RYERSON OR APPROVED EQUAL WITH INTEGRATED STAKES THROUGH SLOTS IN THE EDGING. (REFER TO DETAIL SHEETS FOR ACCEPTED EDGING MATERIAL)
12. MULCH ALL TREE PLANTINGS AND PLANTING BEDS WITH 4" OF EITHER SHREDDED HARDWOOD BARK MULCH OR CYPRESS MULCH. IN THE SEASONAL FLOWER BEDS USE EITHER CYPRESS OR PINE BARK MULCH; DO NOT USE HARDWOOD MULCH IN SEASONAL FLOWER BEDS.
13. ALL PLANTING AREAS SHALL RECEIVE A THREE INCH (3") TOP DRESSING OF MULCH OVER A 10 MIL WEED MAT EQUAL TO "WEEDBLOCK" FABRIC BY "EASY GARDENER'" OR DEWITT WEED BARRIER. SINGLE TREES OR SHRUBS SHALL BE MULCHED TO THE OUTSIDE EDGE OF THE SAUCER OR LANDSCAPE ISLAND (REFER TO PLANTING DETAILS).
14. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION, EXCEPT THOSE OCCUPIED BY BUILDINGS, STRUCTURES, OR PAVING SHALL BE GRADED SMOOTH AND 4" (INCHES) OF TOPSOIL APPLIED. (REFER TO THE EROSION CONTROL DETAIL SHEET(S) FOR TOPSOIL AND SEEDING SPECIFICATIONS).
15. CONTRACTOR SHALL FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH 10–10–10 TIME RELEASE FERTILIZER.
16. IF REQUIRED BY THE CLIENT'S SPECIFICATIONS OR REQUIREMENTS OF THE REGULATORY AUTHORITY HAVING JURISDICTION WHICHEVER IS MORE STRINGENT, THE CONTRACTOR SHALL REPAIR, REPLACE AND/OR AUGMENT EXISTING IRRIGATION SYSTEM AS NECESSARY THAT PROVIDES SEPARATE ZONES AND HEAD PLACEMENT FOR SHRUB AREAS AND TURF AREAS. 100% HEAD TO HEAD COVERAGE WILL BE REQUIRED. THE CONTRACTOR WILL SUBMIT AS–BUILT DRAWINGS FOR THE LANDSCAPE IRRIGATION SYSTEM AND WILL ACCEPT RESPONSIBILITY FOR THE THE IRRIGATION SYSTEM. PROVIDE SUBMITTALS AS REQUIRED.
17. ALL PLANTING TYPES SHALL COMPLY WITH LOCAL GOVERNING CODES AND REGULATIONS. CONFORM TO REQUIREMENTS OF PLANT LIST AND TO THE AMERICAN ASSOCIATION OF NURSERYMEN "AMERICAN STANDARD OF NURSERY STOCK" AND "HORTICULTURAL STANDARDS" AS TO SPECIES, AGE, SIZE, AND PLANTING RECOMMENDATIONS
18. LANDSCAPE CONTRACTOR SHALL OBTAIN AN ORIGINAL PRINT OF THIS PLAN TO ENSURE THAT ALL LINE WEIGHTS, LINE TYPES AND SHADED COLORS ARE COMPLETELY LEGIBLE AS ORIGINALLY PRINTED.
19. NO MATERIAL SUBSTITUTIONS SHALL BE MADE WITHOUT THE ARCHITECT'S PRIOR WRITTEN APPROVAL. ALTERNATE MATERIALS OF SIMILAR SIZE AND CHARACTER MAY BE CONSIDERED IF SPECIFIED PLANT MATERIALS CANNOT BE OBTAINED.
20. PLANT LOCATIONS ARE APPROXIMATE. ADJUST AS NECESSARY TO AVOID CONFLICTS.
21. QUANTITIES OF MATERIALS SHOWN ON LANDSCAPING PLAN TAKE PRECEDENCE OVER QUANTITIES SHOWN ON PLANTING SCHEDULE. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL QUANTITIES ON LANDSCAPING PLAN.

NOTE TO CONTRACTOR

CONTRACTOR SHALL INSTALL AN AUTOMATIC POP–UP AND/OR DRIP IRRIGATION SYSTEM THAT PROVIDES SUFFICIENT WATERING FOR ALL PLANTS AND TURF TO SUSTAIN HEALTHY GROWTH. THE IRRIGATION SYSTEM SHALL BE IN COMPLIANCE WITH ALL CITY, COUNTY AND/OR STATE REQUIREMENTS. CONTRACTOR SHALL ENSURE ALL PLANTS AND TURF ARE MAINTAINED IN HEALTHY GROWING CONDITION FOR ONE FULL GROWING SEASON.

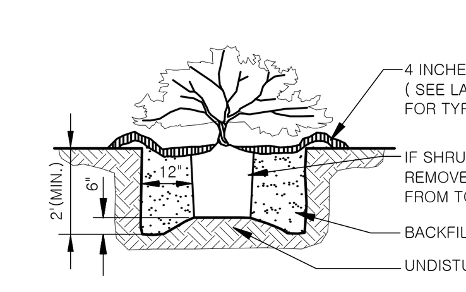
LANDSCAPE PLAN PREPARER

THIS LANDSCAPE PLAN WAS CREATED BY: NATHANIEL C. ROBERTS, PLA, LICENSE NO. 2018016630, ANDERSON ENGINEERING INC., 5311 W. VILLAGE PKWY, ROGERS, AR 72758, 479–286–8181



NOTES:
1. DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
2. STAKE AND/OR WRAP TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.
3. BACKFILL WITH EXISTING SOIL IN SANDY LOAM SOILS. ADD 20% MAX. BY VOLUME COMPOSTED ORGANIC MATERIAL TO THE EXISTING SOIL.
4. SEE LANDSCAPE PLAN NOTES FOR TYPE OF MULCH TO BE USED.
5. REMOVE TEE POSTS, WIRE WRAPPED IN RUBBER HOSE AND FLAGGING AFTER ONE COMPLETE GROWING SEASON (MARCH-OCTOBER).

TREE PLANTING DETAIL AE-L1
N.T.S.



SHRUB PLANTING AE-L2
N.T.S.

STATE OF MISSOURI
NATHANIEL C. ROBERTS
NUMBER PLA-2018016630
LANDSCAPE ARCHITECT
2-1-19

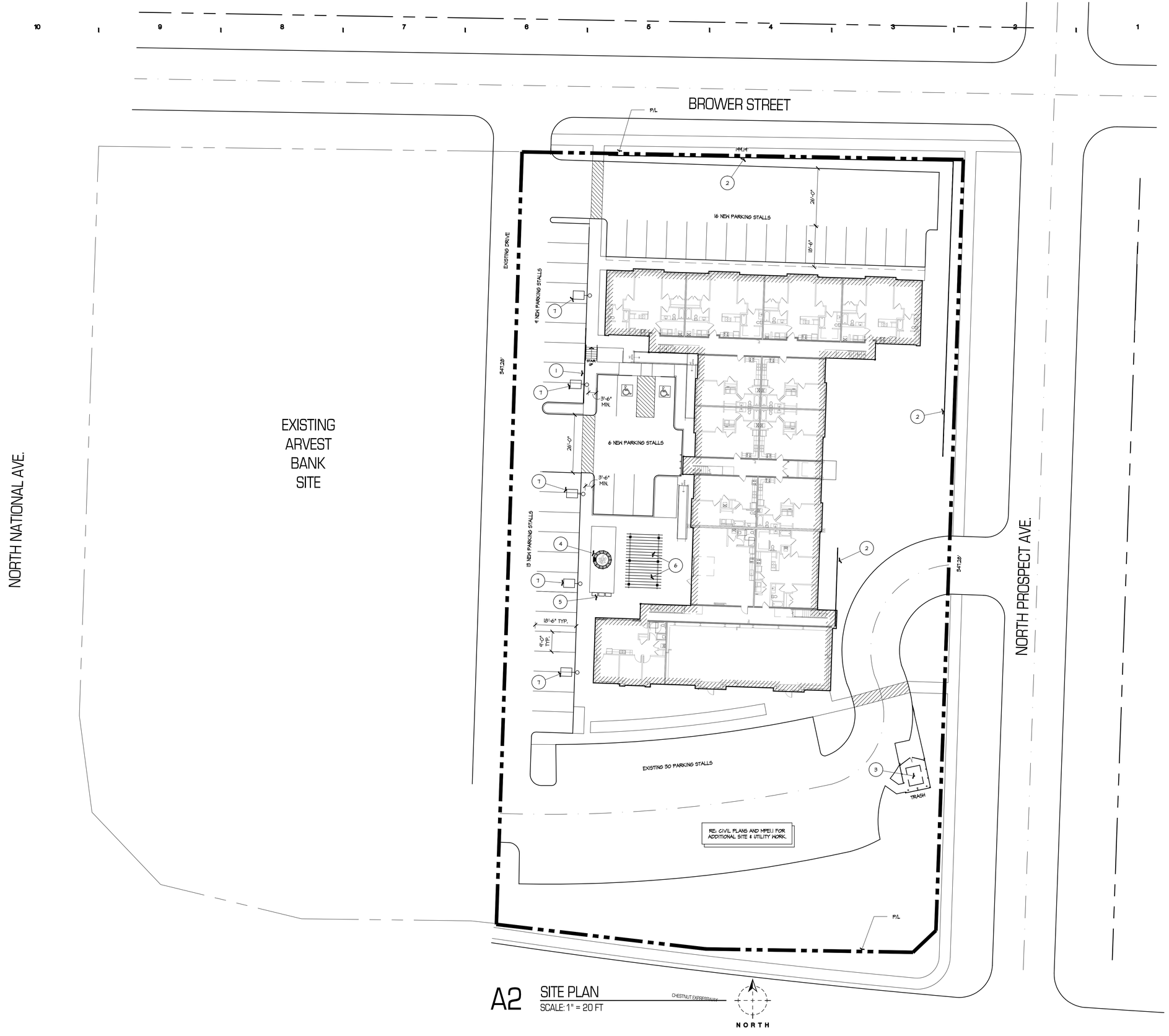
LANDSCAPE PLAN

ISSUE DATE:
2.4.2019

REVISIONS:

PROJECT NO.: 1817

L1.1



KEY NOTES

1. CONCRETE STEPS. RE: C8/SP1.2
2. RETAINING WALL. RE: CIVIL
3. TRASH ENCLOSURE. RE: CIVIL
4. FIRE PIT. RE: E10/SP1.2
5. MAILBOXES. RE: A10/SP1.2
6. WOOD TRELLIS. RE: A2/SP1.2
7. LIGHT POLE. RE: ELECTRICAL.

A2 SITE PLAN
SCALE: 1" = 20 FT

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS

1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI TIMOTHY O. K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

SITE PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

SP1.1

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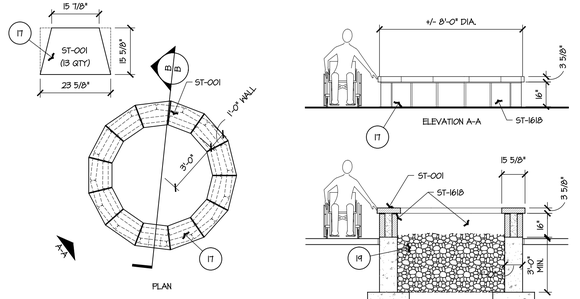
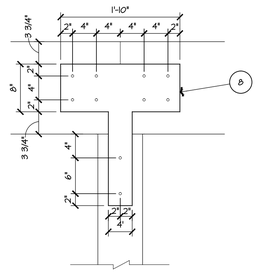
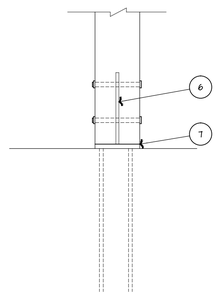


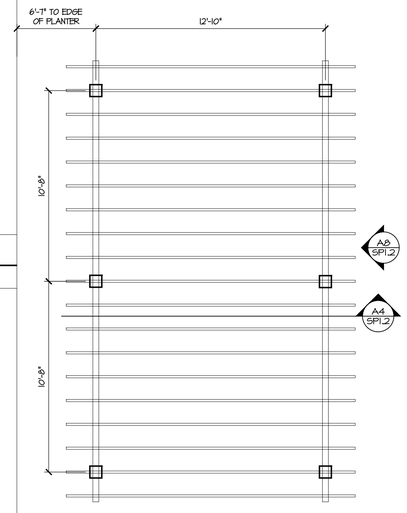
E10 FIRE PIT DETAILS
SCALE: 1/4" = 1'-0"

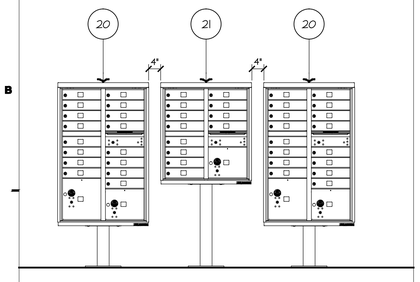


C6 TOP PLATE DETAIL
SCALE: 1" = 1'-0"

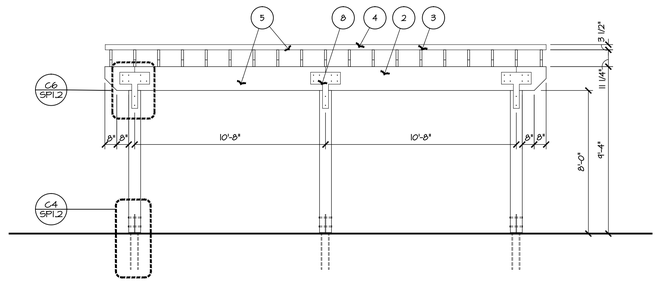


C4 BASE PLATE DETAIL
SCALE: 1" = 1'-0"

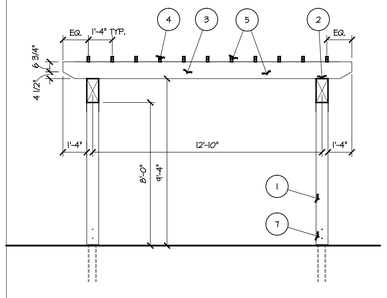




A10 MAILBOX ELEVATION
SCALE: 1/2" = 1'-0"



A8 TRELLIS ELEVTION
SCALE: 1/4" = 1'-0"



A4 TRELLIS SECTION
SCALE: 1/4" = 1'-0"

A2 TRELLIS PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES

1. 8"X8" CEDAR COLUMN.
2. 8"X16" CEDAR BEAM.
3. 2"X12" CEDAR @ 16" O.C., TOE NAIL INTO BEAM W/ GALV. NAILS
4. 2"X4" CEDAR @ 16" O.C., TOE NAIL INTO 2 X 12 W/ GALV. NAILS.
5. INSTALL CLEAR SEALER ON ALL CEDAR MEMBERS.
6. 1/2" X 7 1/2" X 12" GALV. PLATE. SHOP WELD TO TOP OF BASE PLATE W/ (2) 3/4" DIA. GALV. THRU BOLTS
7. 3/4" X 7 1/2" X 7 1/2" GALV. BASE PLATE W/ (4) 5/8" DIA. X 2'-0" LONG THREADED ROD ANCHORS WELDED TO BOTTOM OF PLATE. EMBED IN FOUNDATION FOOTING.
8. 1/4" GALVANIZED STEEL 'T' PLATE EACH SIDE W/ 3/4" DIA. GALV. THRU BOLT. TYP.
9. 16" TALL CANE BOLT, PROVIDE HOLE IN CONCRETE. PROVIDE 1 FOR EACH GATE PAINT.
10. 6" DIA. CONCRETE FILLED STEEL BOLLARD @ 4'-0" TALL. PAINT. EMBED 3'-0" DEEP CONCRETE CONCRETE.
11. 6'-0" TALL VINYL FENCING SCREWED TO FRAMING. COLOR AS SELECTED BY ARCHITECT.
12. 2X4 TREATED WOOD FENCE FRAMING.
13. HSS 1 1/2" X 1 1/2" X 3/16" STEEL TUBE GATE FRAMING. ALL CONNECTIONS FULLY WELDED, GRIND WELDS SMOOTH. PAINT. SCREW VINYL FENCING TO STEEL TUBING W/ 2" SELF DRILLING TEK #5 SCREWS. PROVIDE & INSTALL 3 HEAVY DUTY HINGES ON EACH GATE.
14. HSS 3 1/2" X 3 1/2" X 3/16" TUBE STEEL POST SET IN MIN. 3'-0" DEEP CONCRETE. CAP POST W/ STEEL PLATE. PAINT. SCREW FRAMING TO STEEL POST W/ 3" SELF DRILLING TEK #5 SCREWS. PAINT.
15. REINFORCED CONCRETE SLAB. RE: CIVIL.
16. MODIFY EXISTING CURBING. RE: CIVIL.
17. MASONRY FIRE PIT WALLS & WALL CAPS, DIMENSIONAL STONE (MACHINE MADE) UNITS AS MFG. BY ROCKCAST. COLOR AS SELECTED BY ARCHITECT. FIELD CUT UNITS AS NECESSARY TO PRODUCE INDICATED GEOMETRY. FILL SOLID ALL VOIDS W/ MORTAR CREATED BY MASONRY UNITS.
18. CONCRETE FOOTING. RE: STRUCTURAL.
19. GRAVEL BASE.
20. FLORENCE CORPORATION CLUSTER MAIL BOX - VITAL 1510-16. COLOR POSTAL GREY. NUMBERING OF MAILBOX PER THE REQUIREMENTS OF THE LOCAL POSTAL SERVICE
21. FLORENCE CORPORATION CLUSTER MAILBOX - VITAL 1510-12. COLOR POSTAL GREY. NUMBERING OF THE MAILBOX PER THE REQUIREMENTS OF THE LOCAL POSTAL SERVICE.

SWD ARCHITECTS
EST 1935
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MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

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315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI
TIMOTHY O.K. WILSON
NUMBER A-6972
REGISTERED ARCHITECT

COURTYARD
DETAILS &
ELEVATIONS

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

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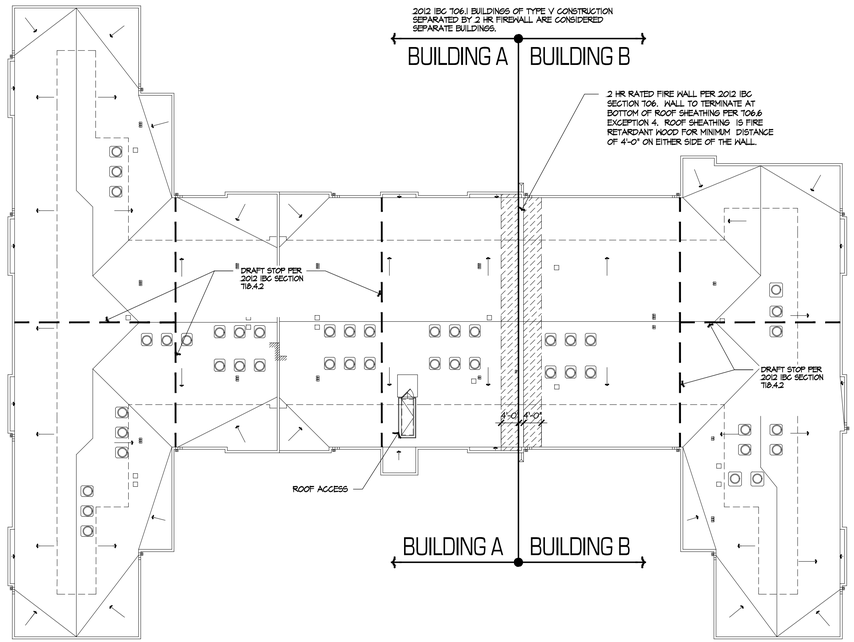


E8 ROOF PLAN
SCALE: 1/16" = 1'-0"

NORTH

CODE ANALYSIS

LOCAL ADOPTED CODES:

BUILDING:	IBC 2012 INTERNATIONAL BUILDING CODE
MECHANICAL:	IMC 2012 INTERNATIONAL MECHANICAL CODE
PLUMBING:	IPC 2012 INTERNATIONAL PLUMBING CODE
ELECTRICAL:	NEC 2011 NFPA 70 NATIONAL ELECTRICAL CODE
FIRE:	2012 INTERNATIONAL FIRE CODE
ACCESSIBILITY:	2009 A117.1 ACCESSIBLE & USABLE BUILDINGS & FACILITIES

ZONING: GR W/ COD #139

PARKING REQUIREMENTS:
41 APARTMENT UNITS:
(18) 1 BEDROOM X 1.5 = 27 STALLS
(23) 2 BEDROOM X 2 = 46 STALLS
73 REQUIRED PARKING STALLS
RETAIL - 2,150 SF / 250 = 9 STALLS
BICYCLE PARKING REDUCTION ALLOWANCE: 10% AT 2 BICYCLE SPACES PER 1 PARKING STALL
82 X 10% = 8 PARKING STALLS
8 X 2 = 16 BICYCLE SPACES REQUIRED
82 - 8 = 74 PARKING STALL REQUIRED
74 ON SITE PARKING STALLS PROVIDED

SITE ACREAGE - +/- 1.62 ACRES

OCCUPANCY CLASSIFICATION:

BUILDING A:
1ST - 3RD FLOOR: APARTMENTS R-2

BUILDING B:
1ST FLOOR (UNSEPARATED OCCUPANCIES): APARTMENTS R-2, RETAIL M, OFFICE B, ASSEMBLY A-3
2ND - 3RD FLOOR: APARTMENTS R-2

TYPE OF CONSTRUCTION: TYPE VB (IBC TABLE 503).

THE BUILDINGS ARE FULLY SPRINKLED W/ NFPA 13R SYSTEM PER IBC 903.3.1.2

BUILDING HEIGHT:
ALLOWABLE: 40' (IBC TABLE 503) + 20' (IBC 504.2) = 60'
ACTUAL: 43'-3"

APARTMENTS R-2
ALLOWABLE: 2 STORIES (IBC TABLE 503) + 1 STORY (IBC 504.2) = 3 STORIES
ACTUAL: 3 STORIES

RETAIL M
ALLOWABLE: 1 STORY + 1 STORY = 2 STORY
ACTUAL: 1 STORY (1ST FLOOR ONLY)

OFFICE B
ALLOWABLE: 2 STORIES + 1 STORY = 3 STORY
ACTUAL: 1 STORY (1ST FLOOR ONLY)

ASSEMBLY A-3: 1 STORY + 1STORY = 2 STORY
ACTUAL: 1 STORY (1ST FLOOR ONLY)

BUILDING AREA:

BUILDING A
ALLOWABLE AREA PER FLOOR (IBC 506.1): Aa = 7000(At) + [7000(At) X 0.64(If)] = 11,480 GSF
FRONTAGE INCREASE (IBC 506.2): If = [471'(F)/ 537'(P) - 0.25] X 30(W)/30 = 0.64

ALLOWABLE AREA (Aa): 11,480 GSF

FIRST FLOOR: 9304 GSF
SECOND FLOOR: 9304 GSF
THIRD FLOOR: 9304 GSF
TOTAL: 27,912 GSF

BUILDING B
ALLOWABLE AREA PER FLOOR (IBC 506.1): Aa = 7000(At) + [7000(At) X 0.54(If)] = 11,130 GSF
FRONTAGE INCREASE (IBC 506.2): If = [306'(F)/ 364'(P) - 0.25] X 30(W)/30 = 0.54
BASED ON R-2 (MOST RESTRICTED USE)

ALLOWABLE AREA (Aa): 11,130 GSF

FIRST FLOOR: 5775 GSF
SECOND FLOOR: 5775 GSF
THIRD FLOOR: 5775 GSF
TOTAL: 17325 GSF

OCCUPANT LOAD PER BUILDING

BUILDING A:

1ST FLOOR:	R-2: 9304 GSF / 200 (RESIDENTIAL) =	46
2ND FLOOR:	R-2: 9304 GSF / 200 (RESIDENTIAL) =	46
3RD FLOOR:	R-2: 9304 GSF / 200 (RESIDENTIAL) =	46
TOTAL:		138 OCCUPANTS

BUILDING B:

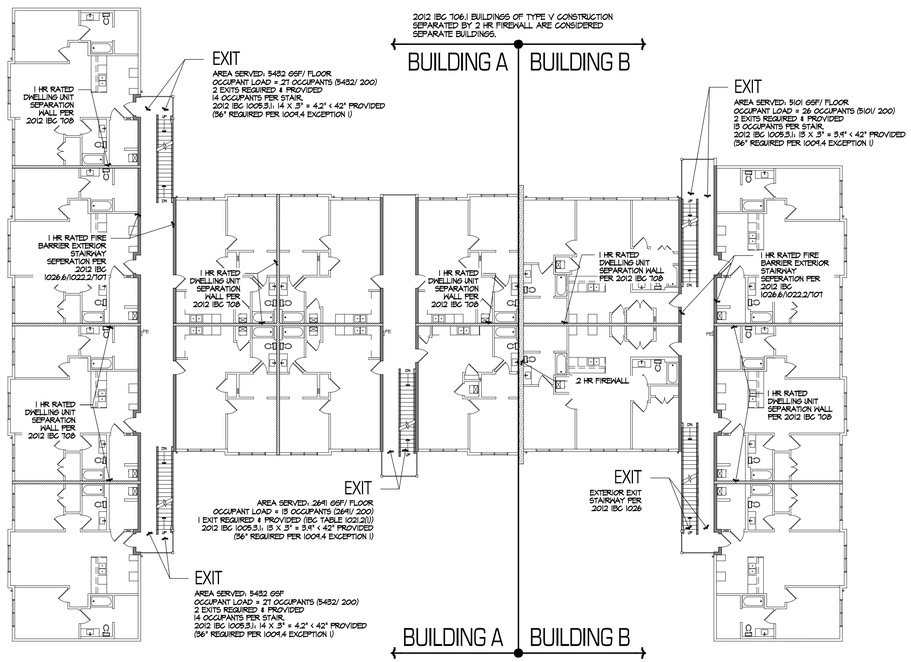
1ST FLOOR:	M: 2150 GSF/ 30 (MERCANTILE AT GRADE) =	71
	B: 858 GSF/ 100 (BUSINESS) =	8
	A-2: 953 GSF/ 15 (UNCONCENTRATED TABLES & CHAIRS =	63
	R-2: 3390 GSF/ 200 (RESIDENTIAL) =	16
2ND FLOOR:	R-2: 5575 GSF/ 200 (RESIDENTIAL) =	27
3RD FLOOR:	R-2: 5575 GSF/ 200 (RESIDENTIAL) =	27
TOTAL:		212 OCCUPANTS

EGRESS REQUIREMENTS:
CORRIDOR EXIT WIDTH: 1ST FLOOR (SOUTH CORRIDOR ASSUMED WORST CASE) - MAX. OCCUPANCY OF 38 X .2" = 8" < 36" MINIMUM REQUIRED, 42" PROVIDED.
CORRIDORS EXIT WIDTH: 2ND - 3RD (NORTH CORRIDOR ASSUMED WORST CASE) - MAX. OCCUPANCY OF 27 X .2" = 5.6" < 36" MINIMUM REQUIRED, 42" PROVIDED.
EXIT ACCESS TRAVEL DISTANCE IS LESS THAN THE MAX. 250' ALLOWED (IBC TABLE 1016.2).
COMMON PATH OF EGRESS TRAVEL (IBC TABLE 1014.3): M = 75' MAX. A-2 = 75' MAX. B = 100' MAX. R-2 = 125' MAX. MAX. OF 59' COMMON PATH TYP. AT 2 BED APARTMENT.
DEAD END CORRIDORS ALLOWED (IBC 1018.4): A-2 = 20' MAX. R-2 = 50' MAX.
EXIT SEPARTION DISTANCE:
BUILDING A: OVERALL DIAGONAL IS 142'-6" / 3 = 47'-6" MIN. ACTUAL PER IBC 1015.2.1 EXC. 1 IS 54'.
BUILDING B: OVERALL DIAGONAL IS 108'-6" / 3 = 36'-2" MIN. ACTUAL PER IBC 1015.2.1 EXC. 1 IS 40'.

FIRE RESISTIVE REQUIREMENTS (MINIMUMS) FOR TYPE VB (PER IBC TABLE 601):

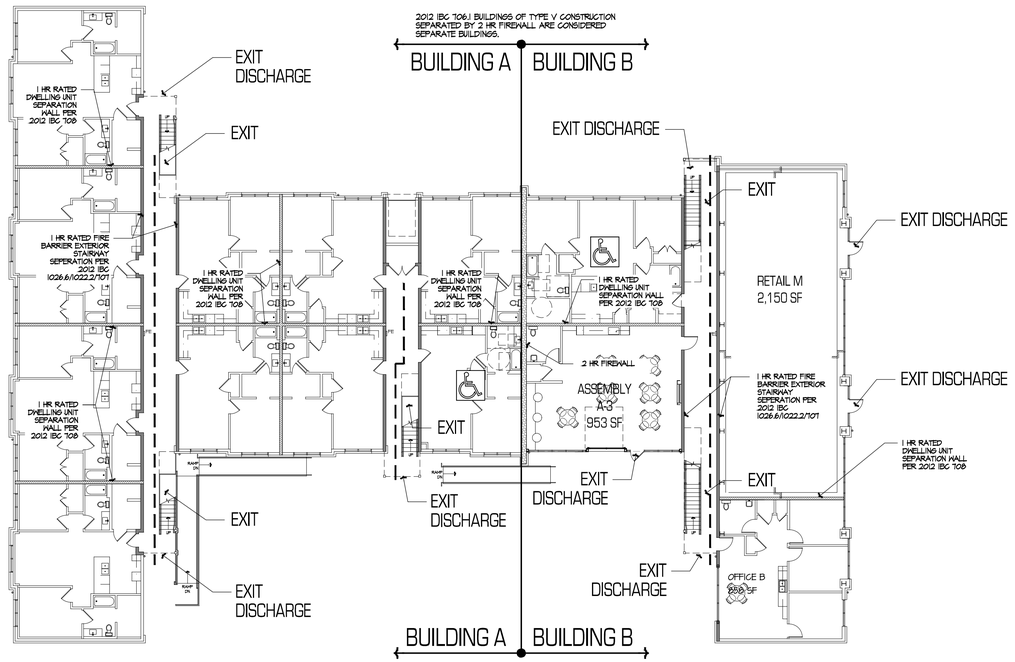
STRUCTURAL FRAME	0
EXTERIOR BEARING WALLS	0
INTERIOR BEARING WALLS	0
EXTERIOR NONBEARING WALLS	0
INTERIOR NONBEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

ACCESSIBILITY REQUIREMENTS AT AREAS OF WORK: PUBLIC SPACES TO BE ACCESSIBLE PER THE 2012 IBC & 2010 ADA. 2% OF UNITS REQUIRED TO BE TYPE 'A' PER 1107.6.2.1.1. 41 UNITS X .02% = 1 TYPE 'A' UNIT REQUIRED, 2 PROVIDED, TYPE 'B' UNITS REQUIRED ON FIRST FLOOR ONLY PER IBC 1107.1.1.



A8 2ND FLOOR SHOWN (3RD SIM.)
SCALE: 1/16" = 1'-0"

NORTH



A2 1ST FLOOR PLAN
SCALE: 1/16" = 1'-0"

NORTH

ACCESSIBLE ROUTE

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SWD ARCHITECTS
EST 1935
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MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1688 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
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SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI TIMOTHY O.K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

CODE ANALYSIS

ISSUE DATE:
02.04.2019
REVISIONS:

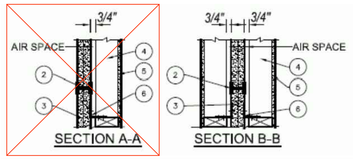
PROJECT NO.: 1817

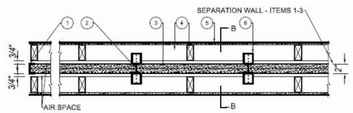
A0.1

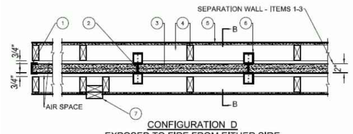
Design No. U336 (Edited for Relevancy)

May 08, 2018

Exposed to fire from separation Wall side only
Nonbearing Wall Rating — 2 Hr (Separation Wall, See Items 1, 2 and 3)
Bearing Wall Rating - 2 Hr (Protected Wall, See Items 4 and 4A)
Nonbearing Wall Rating - 2 Hr (Protected Wall, See Item 4B)
Finish Rating — 120 Min
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.







SEPARATION WALL: (Max Height - 66 ft)

1. Floor, Intermediate or Top Wall — 2 in. wide channel shaped with 1 in. long legs formed from No. 25 MSG galv steel, secured with suitable fasteners spaced 24 in. OC.

2. Metal Studs — Steel members formed from No. 25 MSG galv steel having "H" -shaped flanged spaced 24 in. OC; overall depth 2 in. and flange width 1-3/8 in.

3. Gypsum Board* — Two layers of 1 in. thick gypsum board liner panels, supplied in nom 24 in. widths. Vertical edges of panels friction fitted into "H" -shaped studs.

CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG BORAL DRYWALL SFZ LLC — Type SLX

USG MEXICO S A DE C V — Type SLX

PROTECTED WALL: (Bearing or Nonbearing Wall). When Bearing, Load Restricted for Canadian Applications — See Guide BXUV7.

4. Wood Studs — Nom 2 by 4 in. max spacing 24 in. OC. Studs cross braced at mid-height where necessary for clip attachment. Min 3/4 in. separation between wood framing and fire separation wall.

5. Gypsum Board — Classified or Unclassified — Min 1/2 in. thick, 4 ft wide, applied either horizontally or vertically. Gypsum board attached to studs with 1-1/4 in. long steel drywall nails spaced 8 in. OC. Vertical joints located over studs. (Optional) Joints covered with paper tape and joint compound. Nail heads covered with joint compound.

6. Attachment Clips — Aluminum angle, 0.063 in. thick, 2 in. wide with 2 in. and 2-1/4 in. legs. Clips secured with Type S screws 3/8 in. long to "H" studs and with Type W screws 1-1/4 in. long to wood framing through holes provided in clip.

6A. Clip placement (Item 6) for separation walls up to 23 ft high. Space clips a max of 10 ft OC vertically between wood framing and "H" studs.

6B. Clip placement (Item 6) for separation walls up to 44 ft high. Space clips as described in Item 6A for upper 24 ft. Remaining wall area below requires clips spaced a max 5 ft OC vertically between wood framing and "H" studs.

6C. Clip placement (Item 6) for separation walls up to 66 ft high: Space clips as described in Item 6A for upper 24 ft. Space clips as described in item 6B for next 20 ft. below the upper 24 ft. Remaining wall area below requires clips spaced a max of 40 in. OC vertically between wood framing and "H" studs.

7. Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 by 4 in. stud or nominal 2 by 6 in. stud nailed together with two 3in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. 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 in. 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.

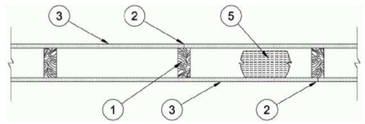
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

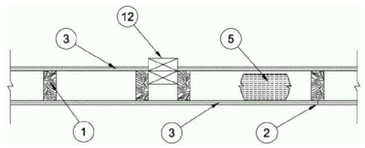
Design No. U305 (Edited for Relevancy)

December 04, 2018

Bearing Wall Rating — 1 Hr
Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.
STC Rating - 56 (See Item 9)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.





1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge 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. Nailheads exposed or covered with joint compound.

3. Gypsum Board* — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6E, Steel Framing Members*.
When Items 6, 6B, 6C, 6D, or 6E, Steel Framing Members*, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

ACADIA DRYWALL SUPPLIES LTD — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CERTAINTEED GYPSUM INC — Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C. Type X-2, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 26 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LW2X (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C

PANEL REY S A — Type GREX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (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 SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (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), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

OWENS CORNING HT INC, DIV OF OWENS CORNING — Corning Fiberglas Corp

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — Acoustical Fire Batts

THERMAFIBER INC — Type SAFB, SAFB FF

5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.
THERMAFIBER INC — Type SAFB, SAFB FF

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 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. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.

9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:
A. Item 2, above — Nailheads Shall be covered with joint compound.
B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.
C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.
D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.
E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.
F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

12. Non-Bearing Wall Partition Intersection — (Optional) —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 in. 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 by with a second 2 by 4 in. 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.

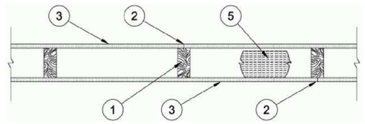
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

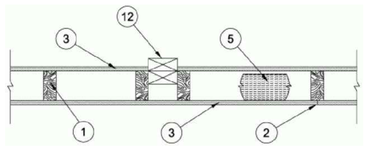
Design No. U305 (Edited for Relevancy)

December 04, 2018

Bearing Wall Rating — 1 Hr
Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.
STC Rating - 56 (See Item 9)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.





1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped.

2. Joints and Nail-Heads — Joints covered with joint compound and paper tape. Joint compound and paper tape may be omitted when square edge 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. Nailheads exposed or covered with joint compound.

3. Gypsum Board* — 5/8 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths other than 48 in., gypsum panels are to be installed horizontally. For an alternate method of attachment of gypsum panels, refer to Items 6 through 6E, Steel Framing Members*.
When Items 6, 6B, 6C, 6D, or 6E, Steel Framing Members*, are used, gypsum panels attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC.

When Item 6A, Steel Framing Members*, is used, two layers of gypsum panels attached to furring channels. Base layer attached to furring channels with 1 in. long Type S bugle-head steel screws spaced 12 in. OC. Face layer attached to furring channels with 1-5/8 in. long Type S bugle-head steel screws spaced 12 in. OC. All joints in face layers staggered with joints in base layers. One layer of gypsum board attached to opposite side of wood stud without furring channels as described in Item 3.

When Item 7, resilient channels are used, 5/8 in. thick, 4 ft wide gypsum panels applied vertically. Screw attached furring channels with 1 in. long, self-drilling, self-tapping Type S or S-12 steel screws spaced 8 in. OC, vertical joints located midway between studs.

ACADIA DRYWALL SUPPLIES LTD — Type X (finish rating 22 min), 5/8 Type X, Moisture Resistant Type X, Gypsum Sheathing Type X, Mold & Mildew Resistant Type X and Mold & Mildew Resistant AR Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1(finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CERTAINTEED GYPSUM INC — Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C. Type X-2, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 26 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing Type-LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing Type- DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LW2X (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C

PANEL REY S A — Type GREX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (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 SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULIX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

USG MEXICO S A DE C V — Type AR (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), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.

5. Batts and Blankets* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.

CERTAINTEED CORP

JOHNS MANVILLE

KNAUF INSULATION LLC

MANSON INSULATION INC

OWENS CORNING HT INC, DIV OF OWENS CORNING — Corning Fiberglas Corp

ROCK WOOL MANUFACTURING CO — Delta Board

ROCKWOOL — Acoustical Fire Batts

THERMAFIBER INC — Type SAFB, SAFB FF

5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.
THERMAFIBER INC — Type SAFB, SAFB FF

5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 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. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.

8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.

9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:
A. Item 2, above — Nailheads Shall be covered with joint compound.
B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.
C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.
D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.
E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.
F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.

12. Non-Bearing Wall Partition Intersection — (Optional) —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 in. 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 by with a second 2 by 4 in. 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.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

A10 WALL TYPE "C" - 2 HR RATED
SCALE: NONE

A8 WALL TYPE "B" - 1 HR RATED
SCALE: NONE

A4 WALL TYPE "A" - 1 HR RATED
SCALE: NONE

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Feb 02,2019 11:45am

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI TIMOTHY O.K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

FIRE RATED ASSEMBLIES

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

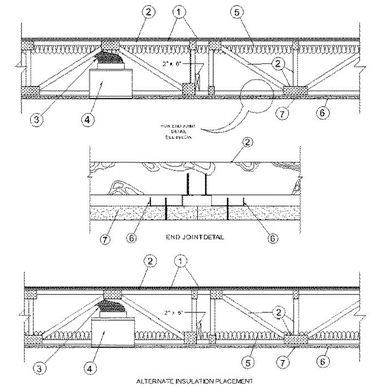
A0.2

Design No. L563 (Edited for Relevancy)

November 28, 2018

Unrestrained Assembly Rating - 1/2 Hr, 1 Hr (See Item 1, System 1)
Finish Rating - 25 Min (See Items 5 or 5A and 7), 20 Min. (See Items 6E and 7A)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Flooring System — The flooring system shall consist of one of the following:

System No. 9

Subflooring — Min 23/32 in. thick T & G wood structural panels installed perpendicular to trusses with joints staggered 4 ft. Plywood or nonveneer APA rated panels secured to trusses with construction adhesive and No. 6d ring **shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring** 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Vapor Barrier - (Optional) — Nom 0.030 in. thick commercial asphalt saturated felt.

Finish Flooring - Floor Topping Mixture* — Min 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.

MAXXON CORP — Type D-C, GC, GC2000, L-R, T-F, CT, SS

RAPID FLOOR SYSTEMS — Type RF, RFP, RFU, Ortecrete

Floor Mat Materials* - (Optional) — Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.

MAXXON CORP — Type Acousti-Mat 1/8, Acousti-Mat 1/4, Acousti-Mat 1/4 Premium, Acousti-Mat 3/8, Acousti-Mat 3/8 Premium, Acousti-Mat 3/4, Acousti-Mat 3/4 Premium, Acousti-Top.

Floor Mat Reinforcement — (Optional) Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.

Metal Lath - (Optional) 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement — (Optional) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs./sq. yd loose laid over the floor mat material.

2. Trusses — Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. when Ceiling Dampers* are not used. Min truss depth is 18 in. when Ceiling Damper* is used. Truss members secured together with min 0.036 0356 in. thick galvanized steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tool has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approx. 7/8 in. centers with four rows of teeth per inch of plate width.

3. Air Duct* (Optional) — Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

4. Ceiling Damper* (Optional). To be used with Air Duct Item 3. — For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

AIRE TECHNOLOGIES INC — Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot.

LLOYD INDUSTRIES INC — Model CRD 50-BT, CRD 50-EA-BT, CRD 55-BT, CRD 55 EA-BT

4A. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max plenum box size nom 13 in. long by 13 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC — Model CRD 50-BT-6, CRD 50-EA-BT-6, CRD 55-BT-6, CRD 55 EA-BT-6, CRD50-w X-BT-6

4B. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max size ceiling outlet in plenum box nom 12 in. long by 12 in. wide. Plenum box fabricated from galv steel. Aggregate damper openings shall not exceed 72 sq in. per 100 sq ft of ceiling area. Installed in accordance with the manufacturers installation instructions provided with the damper.
AIRE TECHNOLOGIES INC — Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot.

LLOYD INDUSTRIES INC — Model CRD 50-95BT, CRD 50-EA-95BT, CRD 55-95BT, CRD 55 EA-95BT

4C. Alternate Ceiling Damper* — For use with min 18 in. deep trusses. Max size ceiling outlet in plenum box nom 16 in. long by 16 in. wide. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

CROWN PRODUCTS CO INC — Models CRD50-FGPB-4.2-CP, -6.0-CP; CRD50-FGPB-4.2-EA-CP, -6.0-EA-CP.

LLOYD INDUSTRIES INC — Models CRD 50- FGPB-4.2, - 4.2 NI, -6.0, -6.0 NI; CRD50-EA-FGPB-4.2, -4.2 NI, -6.0, -6.0 NI.

4D. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max plenum box size nom 15 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 72 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC — Models 45-CRD-LT-BT and 45-CRD-LTD-BT

4E. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max size ceiling outlet in plenum box nom 10 in. long by 10 in. wide. Plenum box fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC — Model 45-LTD-95-BT-4

4F. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 96 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC — Model CRD50-w X-BT

4G. Alternate Ceiling Damper* — For use with min. 18 in. deep trusses. Max. nom area shall be 349 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.

MIAMI TECH INC — Model Series RxCRD, RxCRDS or RxCRPD

4H. Alternate Ceiling Damper* — For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

METAL-FAB INC — Models MSCD-HC and MRCD-HC

5. Batts and Blankets* — (Optional) - Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. When no insulation is installed in the concealed space resilient channels (Item 6) are spaced 24 in. OC. When the resilient channels (Item 6) are spaced 16 in. OC, the insulation shall be a max of 3-1/2 in. thick, and shall be secured against the subflooring with staples at 12 in. OC or held suspended in the concealed space with 0.090 in. diam galv steel wires attached to the wood trusses at 12 in. OC. When the resilient channels are spaced a max of 12 in. OC or when the Steel Framing Members (Item 6A) are used, there is no limit in the overall thickness of insulation, and the insulation can be secured against the subflooring, held suspended in the concealed space or draped over the resilient channels (or Steel Framing Members) and gypsum panel membrane. The finished rating has only been determined when the insulation is secured to the subflooring.

6. Resilient Channels — Formed from min 25 MSG galv steel installed perpendicular to the trusses. When insulation (Item 5) is secured to the underside of the subfloor, the resilient channels are spaced 16 in. OC. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane, the resilient channels are spaced 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S bugle head steel screws. Channels overlapped 4 in. at splices. Two channels, spaced 6 in. OC, oriented opposite each gypsum panel end joint as shown in the above illustration. Additional channels shall extend min 6 in. beyond each side edge of panel.

6B. Steel Framing Members* — (Not Shown) — As an alternate to Items 6 and 6A.
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 16 in. OC perpendicular to wood structural members. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the furring channel spacing shall be reduced to 12 in. OC. Channels secured to trusses as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire near each end of overlap.
b. Steel Framing Members* — Used to attach furring channels (Item a) to trusses (Item 2). Clips spaced 48 in. OC, and secured to the bottom chord of alternating trusses with one No. 8 x 2-1/2 in. coarse drywall screw through center grommet. When insulation, Items 5 or 5A is applied over the furring channel/gypsum panel ceiling membrane, the clip spacing shall be reduced to 24 in. OC and secured to consecutive trusses. Furring channels are friction fitted into clips. Adjoining channels are overlapped as described in Item a. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping No. 6 framing screws, min 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Additional clips required to hold furring channel that supports the gypsum board butt joints, as described in Item 7.
PLITEQ INC — Type Genie Clip

7. Gypsum Board* — Nom 5/8 in. thick, 48 in. wide gypsum panels. When resilient channels (Item 6) are used, gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured with 1 in. long Type S bugle head steel screws spaced 12 in. OC and located a min of 1/2 in. from side joints and 3 in. from end joints. When insulation (Items 5 or 5A) is applied over the resilient channel/gypsum panel ceiling membrane the screw spacing shall be reduced to 8 in. OC. End joints secured to both resilient channels as shown in end joint detail. When Steel Framing Members (Item 6A) are used, gypsum panels installed with long dimension perpendicular to cross tees with side joints centered along main runners and end joints centered along cross tees. Panels fastened to cross tees with 1 in. long Type S bugle-head screws spaced 8 in. OC in the field and along end joints. Panels fastened to main runners with 1 in. long Type S bugle-head screws spaced midway between cross tees. Screws along sides and ends of panels spaced 3/8 to 1/2 in. from board edge. End joints of panels shall be staggered with spacing between joints on adjacent panels not less than 2 ft OC. When Steel Framing Members (Item 6B) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long No. 6 Type S bugle-head steel screws spaced 12 in. OC in the field of the board. Screw spacing is reduced to 8 in. OC when insulation is applied over the furring channel/gypsum panel ceiling membrane. Gypsum board butted end joints shall be staggered minimum 16 in. within the assembly. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 6 in. on each end. These additional furring channels shall be attached to underside of the truss with Genie clips as described in Item 6B. Screw spacing along the gypsum board butt joint shall be 6 in. OC. When Steel Framing Members (Item 6C) are used, gypsum panels installed with long dimensions perpendicular to furring channels. Panels attached to the furring channels using 1 in. long Type S bugle-head steel screws spaced 8 in. OC along butted end joints and in the field of the panel. Butted end joints shall be staggered min. 2 ft within the assembly, and occur midway between the continuous furring channels. Each end of each gypsum panel shall be supported by a single length of furring channel equal to the width of the gypsum panel plus 6 in. on each end. The two support furring channels shall be spaced approximately 3-1/2 in. OC, and be attached to underside of the truss with one clip at each end of the channel. When Steel Framing Members (Item 6D) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, each end of each gypsum board shall be supported by a single length of furring channel equal to the width of the gypsum board plus 3 in. on each end joint. The two support furring channels shall be spaced approximately 3 in. in from joint. Screw spacing along the gypsum board butt joint and along both additional channels shall be 8 in. OC. Additional screws shall be placed in the adjacent section of gypsum board into the aforementioned 3 in. extension of the extra butt joint channels as well as into the main channel that runs between. Butt joint furring channels shall be attached with one RESILMOUNT Sound Isolation Clip at each end of the channel.
When Steel Framing Members (Item 6F) are used, one layer of nom 5/8 in. thick, 4 ft wide gypsum board is installed with long dimensions perpendicular to furring channels. Gypsum board secured to furring channels with nom 1 in. long Type S bugle-head steel screws spaced 8 in. OC in the field of the board. Gypsum board butted end joints shall be staggered minimum 48 in. and centered over main furring channels. At the gypsum board butt joints, an additional single length of furring channel shall be installed and be spaced approximately 3 in. from the butt joint (6 in. from the continuous furring channels) to support the floating end of the gypsum board. Each of these shorter sections of furring channel shall extend one truss beyond the width of the gypsum panel and be attached to the adjacent trusses with one SonusClip at every truss involved with the butt joint.

AMERICAN GYPSUM CO — Type AG-C

CGC INC — Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

NATIONAL GYPSUM CO — Types eXP-C, FSW-G, FSW-C, FSK-G, FSK-C.

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC — Type C

8. Finishing System - (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum board.

9. Grille — Aluminum or Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

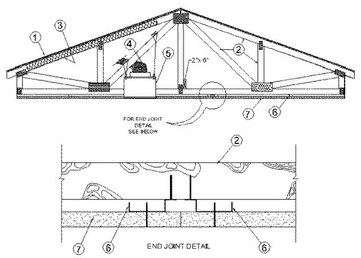
D10 FLOOR/ CEILING TYPE "A" - 1 HR
SCALE: NONE

Design No. P563 (Edited for Relevancy)

August 16, 2018

Unrestrained Assembly Rating — 1 Hr.
Finish Rating — 25 Min. (See Items 3 or 3A and 7), 20 Min. (See Items 3B and 7A)
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Roofing System* -- Any UL Class A, B or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ)acceptable for use over nom 15/32 in. thick wood structural panels, min. grade "C-D" or "Sheathing". Nom 15/32 in. thick wood structural panels secured to trusses with construction adhesive and No. 6d ringed shank nails. Nails spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

2. Trusses -- Pitch or Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with 0.0356 in. thick galv steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposite each other for each pair. The top half of each tooth has a twist for stiffness. The pairs are repeated on approximately 7/8 in. centers with four rows of teeth per inch of plate width. Where the truss intersects with the interior face of the exterior walls, the min truss depth shall be 5-1/4 in. with a min roof slope of 3/12 and a min. area in the plane of the truss of 21 sq/ft. Where the truss intersects with the interior face of the exterior walls, the min truss depth may be reduced to 3 in. if the batts and blankets (Item 3) are used as shown in the above illustration (Alternate Insulation Placement) and are firmly packed against the intersection of the bottom chords and the plywood sheathing.

4. Air Duct* -- Any UL Class 0 or Class 1 flexible air duct installed in accordance with the instructions provided by the damper manufacturer.

5. Ceiling Damper* -- Maximum plenum box size nom. 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 128 sq. in. per 100 sq ft of ceiling area.

AIRE TECHNOLOGIES INC -- Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot

LLOYD INDUSTRIES INC -- Model CRD 50-BT, CRD 50-EA-BT, CRD 55-BT, CRD 55 EA-BT

5A. Ceiling Damper* -- Maximum plenum box size nom. 13 in. long by 13 in. wide and 11-7/8 in. high fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 50 sq. in. per 100 sq ft of ceiling area.

HEATING AND COOLING PRODUCTS -- Models 272-1, 272-2

LLOYD INDUSTRIES INC -- Model CRD 50-BT-6, CRD 50-EA-BT-6, CRD 55-BT-6, CRD 55 EA-BT-6, CRD50-wX-BT-6.

5B. Ceiling Damper* -- Maximum size ceiling outlet in plenum box nom. 12 in. long by 12 in. wide. Plenum box fabricated from galvanized steel. Installed in accordance with the manufacturers installation instructions provided with the damper. Maximum damper openings not to exceed 72 sq. in. per 100 sq ft of ceiling area.

AIRE TECHNOLOGIES INC -- Models: CRD model 50 w/Boot, CRD model 50EA w/Boot, CRD model 55 w/Boot, CRD model 55 EA w/Boot

LLOYD INDUSTRIES INC -- Model CRD 50-95BT, CRD 50-EA-95BT, CRD 55-95BT, CRD 55 EA-95BT

5C. Alternate Ceiling Damper* -- (Optional) -- For use with min 18 in. deep trusses. Max size ceiling outlet in plenum box nom 16 in. long by 16 in. wide. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

CROWN PRODUCTS CO INC -- Models CRD50-FGPB-4.2-CP, -6.0-CP; CRD50-FGPB-4.2-EA-CP, -6.0-EA-CP

LLOYD INDUSTRIES INC -- Models CRD 50- FGPB-4.2, - 4.2 NI, -6.0, -6.0 NI; CRD50-EA-FGPB-4.2, -4.2 NI, -6.0, -6.0 NI

5D. Ceiling Damper* -- (Optional) -- For use with min 18 in. deep trusses Max plenum box size nom 15 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 72 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC -- Models 45-CRD-LT-BT and 45-CRD-LTD-BT

5E. Ceiling Damper* -- (Optional) -- For use with min 18 in. deep trusses Max size ceiling outlet in plenum box nom 10 in. long by 10 in. wide. Plenum box fabricated from galv steel. Aggregate damper openings shall not exceed 50 sq in. per 100 sq ft of ceiling area. Installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC -- Model 45-LTD-95-BT-4

5F. Alternate Ceiling Damper* -- For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 15 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 96 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.

LLOYD INDUSTRIES INC -- Model CRD50-w X-BT

5G. Alternate Ceiling Damper* -- For use with min. 18 in. deep trusses. Max. nom area shall be 349 sq in. Max. overall length and width shall not exceed 18-11/16 in. by 18-11/16 in. with max. 16 in. by 16 in. register opening. Aggregate damper openings shall not exceed 175 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper. An aluminum or steel grille (Item 9) shall be installed in accordance with installation instructions.
MIAMI TECH INC -- Model Series RxCRD, RxCRDS or RxCRPD

5H. Alternate Ceiling Damper* -- For use with min 18 in. deep trusses Max plenum box size nom 19 in. long by 19 in. wide and 11-7/8 in. high fabricated from galv steel. Aggregate damper openings shall not exceed 128 sq in. per 100 sq ft of ceiling area. Damper installed in accordance with the manufacturers installation instructions provided with the damper.
METAL-FAB INC -- Models MSCD-HC and MRCD-HC

6. Resilient Channels -- Resilient channels formed of 25 MSG thick galv steel, spaced 16 in. OC, installed perpendicular to trusses. When batt and blanket material, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, the spacing shall be 12 in. OC. Channels secured to each truss with 1-1/4 in. long Type S steel screws. Channels overlapped 4 in. at splices. Channels oriented opposite at wallboard butt joints (spaced 6 in. OC) as shown in the above illustration.

7. Gypsum Board* -- Nom 5/8 in. thick, 48 in. wide, installed with long dimension perpendicular to resilient channels with 1 in. long Type S screws spaced 12 in. OC and located a min of 3/4 in. from side joints and 3 in. from the end joints. At end joints, two resilient channels are used, extending a min of 6 in. beyond both ends of the joint. When batt and blanket insulation, Item 3, is draped over the resilient channel/gypsum wallboard ceiling membrane, screws shall be installed at 8 in. OC.

AMERICAN GYPSUM CO -- Type AG-C

CGC INC -- Types C, IP-X2, IPC-AR

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C -- Type LGFC-C/A

NATIONAL GYPSUM CO -- Types eXP-C, FSW-G, FSW-C, FSK-G, FSK-C

UNITED STATES GYPSUM CO -- Types C, IP-X2, IPC-AR

USG BORAL DRYWALL SFZ LLC -- Type C

USG MEXICO S A DE C V -- Types C, IP-X2, IPC-AR

8. Finishing System -- (Not Shown) -- Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom 3/32 in. thick veneer plaster may be applied to the entire surface of gypsum wallboard.

9. Grille -- Aluminum or Steel grille, installed in accordance with the installation instructions provided with the ceiling damper.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

A10 ROOF/ CEILING TYPE "A" - 1 HR
SCALE: NONE

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SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI TIMOTHY O. K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

FIRE RATED ASSEMBLIES

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A0.3

WALL TYPES

A

WALL HATCH PATTERN ON PLAN

UL U305 1 HOUR BREEZEWAY SHEAR WALL COORDINATE WITH STRUCTURAL

EXTERIOR
5/8" FIRE RATED GYPSUM SHEATHING
7/16" OSB
2X6 WOOD STUDS AT 16" O.C.
FULL DEPTH INSULATION.
1/2" RESILIENT CHANNEL
5/8" FIRE RATED GYPSUM BOARD
UNIT INTERIOR

B

WALL HATCH PATTERN ON PLAN

UL U305 1 HOUR DEMISING WALL SHEAR WALL COORDINATE WITH STRUCTURAL

UNIT INTERIOR
5/8" FIRE RATED GYPSUM BOARD
7/16" OSB
2X6 WOOD STUDS AT 16" O.C.
FULL DEPTH INSULATION.
1/2" RESILIENT CHANNEL
5/8" FIRE RATED GYPSUM BOARD
UNIT INTERIOR

C

WALL HATCH PATTERN ON PLAN

UL U336 2 HOUR AREA SEPARATION WALL

UNIT INTERIOR
5/8" FIRE RATED GYPSUM BOARD
2X4 WOOD STUDS AT 16" O.C.
2 LAYERS 1" FIRE RATED GYPSUM
INSERTED BETWEEN METAL H STUDS
2X4 WOOD STUDS AT 16" O.C.
FULL DEPTH INSULATION (EACH WALL FACE)
5/8" FIRE RATED GYPSUM BOARD
UNIT INTERIOR

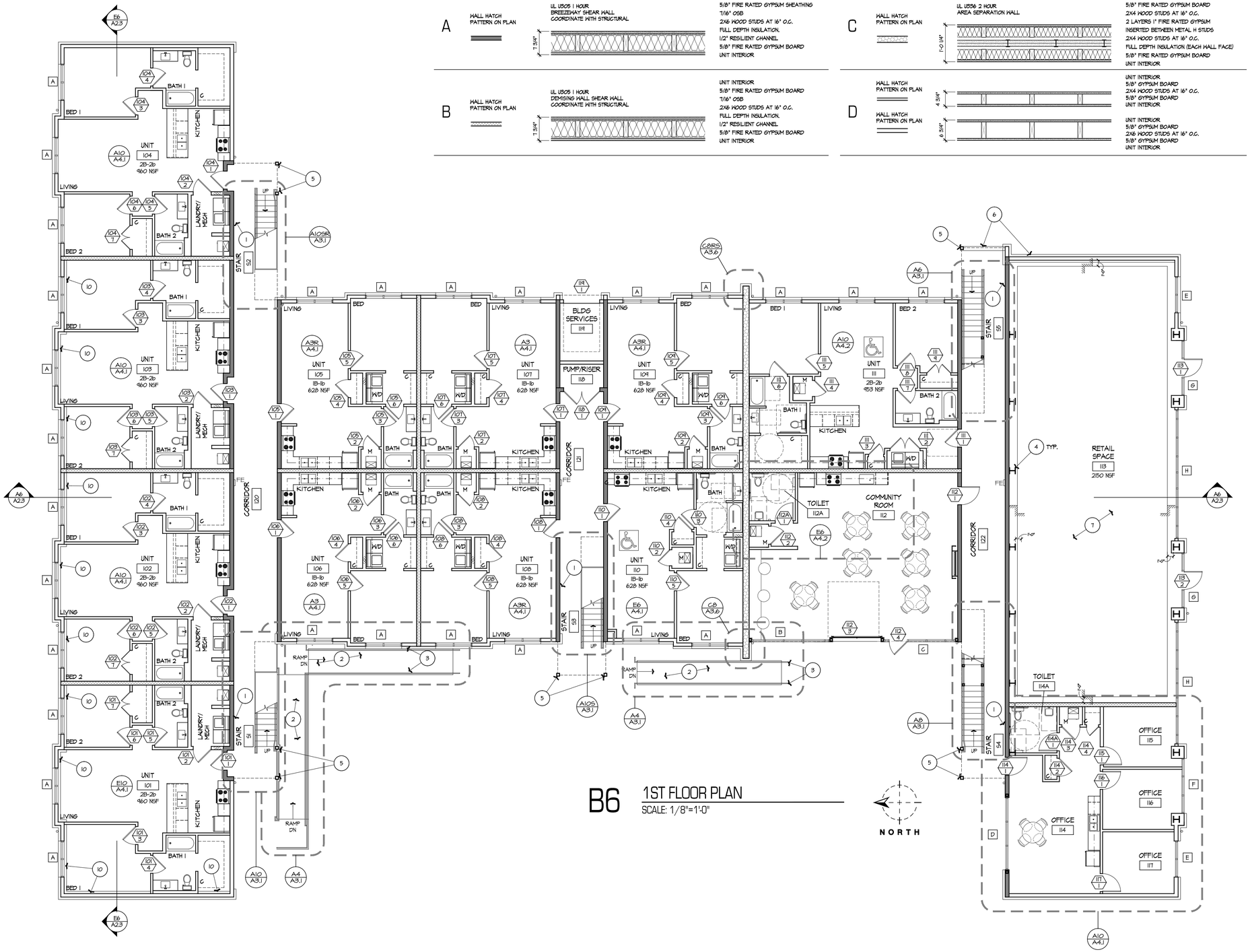
D

WALL HATCH PATTERN ON PLAN

UNIT INTERIOR
5/8" GYPSUM BOARD
2X4 WOOD STUDS AT 16" O.C.
5/8" GYPSUM BOARD
UNIT INTERIOR

WALL HATCH PATTERN ON PLAN

UNIT INTERIOR
5/8" GYPSUM BOARD
2X6 WOOD STUDS AT 16" O.C.
5/8" GYPSUM BOARD
UNIT INTERIOR



B6 1ST FLOOR PLAN

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

KEY NOTES

1. SEMI-RECESSED FIRE EXTINGUISHER CABINET. 104413 & 104416.
2. CONCRETE RAMP. RE: STRUCTURAL.
3. 1 1/2" DIA. GALVANIZED STEEL HANDRAIL. HANDRAIL SHALL EXTEND 12" BEYOND TOP & BOTTOM OF RAMP. TOP OF HANDRAIL SHALL BE MOUNTED 36" A.F.F. ABOVE RAMP. HANDRAIL SHALL RETURN TO WALL OR FLOOR AS INDICATED ON PLAN. MOUNT 2" OFF FACE OF WALL. CONTRACTOR SHALL USE CIRCULAR MOUNTING PLATES AT THE WALL. 055123.
4. STEEL COLUMN. PAINT. RE: STRUCTURAL.
5. TREATED TIMBER COLUMN. STAIN. RE: STRUCTURAL.
6. CONCRETE RETAINING WALL. RE: STRUCTURAL.
7. NO CONCRETE SLAB THIS AREA. RE: STRUCTURAL.
8. 5/4" GYPSUM CEMENT UNDERLAYMENT. TYPICAL 2ND & 3RD FLOORS. 054113
9. COMPOSITE WOOD DECKING. 061553
10. CONCRETE STEM WALL WITH 2X2 TREATED WOOD FURRING AND 5/8" GYP. BD. WITH WOOD CAP. PAINT.

GENERAL NOTES

A. THIS PROJECT IS A SUSTAINABLE DESIGN. IT WILL ACHIEVE BRONZE LEVEL CERTIFICATION THOUGH THE NATIONAL GREEN BUILDING STANDARD. REFER TO THE PROJECT MANUAL FOR SPECIFIC SUSTAINABLE RATING SYSTEM REQUIREMENTS FOR MATERIALS AND INSTALLATIONS.

B. PROVIDE AND INSTALL MOISTURE RESISTANT GYP. BD. ON ALL WALLS AND CEILINGS IN BATHS, RESTROOMS, JANITOR CLOSETS, AND FOR FULL HEIGHT OF ALL CABINET WALLS WHERE SINKS ARE LOCATED.

C. PROVIDE AND INSTALL INSULATION FULL HEIGHT OF ALL INTERIOR WALLS THAT REQUIRE INSULATION AND EXTERIOR WALLS. 072100.

D. ALL INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD.

E. EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR SHEATHING. FACE OF CONCRETE SLAB IS LOCATED AT THE FACE OF THE EXTERIOR SHEATHING.

LEGEND

- (1) — PLAN NOTE
- (B5 / 1) — DOOR DESIGNATION
- (F) — WINDOW DESIGNATION
- (F) — WALL DESIGNATION
- A3R5/A4.1 REV. SIM. — INTERIOR ELEVATION

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS

1255 E. CHESTNUT

SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

1ST FLOOR PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A1.1

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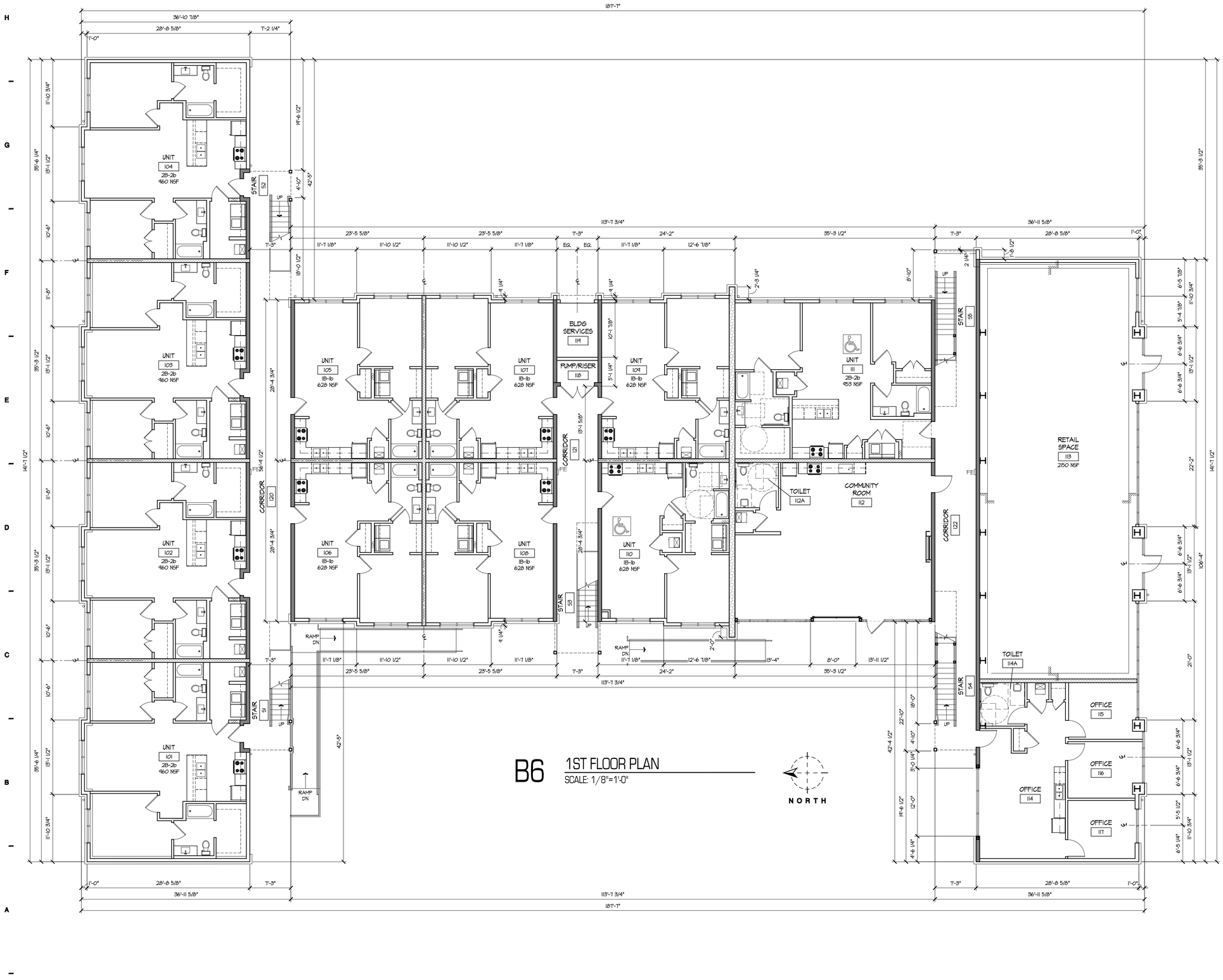

B6 1ST FLOOR PLAN

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

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Feb 02,2019 12:54pm

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1ST FLOOR
DIMENSION PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A1.1D

WALL TYPES

A

WALL HATCH PATTERN ON PLAN

UL U305 1 HOUR
BREEZEWAY SHEAR WALL
COORDINATE WITH STRUCTURAL

EXTERIOR
5/8" FIRE RATED GYPSUM SHEATHING
7/16" OSB
2X6 WOOD STUDS AT 16" O.C.
FULL DEPTH INSULATION.
1/2" RESILIENT CHANNEL
5/8" FIRE RATED GYPSUM BOARD
UNIT INTERIOR

B

WALL HATCH PATTERN ON PLAN

UL U305 1 HOUR
DEMISING WALL SHEAR WALL
COORDINATE WITH STRUCTURAL

UNIT INTERIOR
5/8" FIRE RATED GYPSUM BOARD
7/16" OSB
2X6 WOOD STUDS AT 16" O.C.
FULL DEPTH INSULATION.
1/2" RESILIENT CHANNEL
5/8" FIRE RATED GYPSUM BOARD
UNIT INTERIOR

C

WALL HATCH PATTERN ON PLAN

UL U336 2 HOUR
AREA SEPARATION WALL

UNIT INTERIOR
5/8" FIRE RATED GYPSUM BOARD
2X4 WOOD STUDS AT 16" O.C.
2 LAYERS 1" FIRE RATED GYPSUM
INSERTED BETWEEN METAL H STUDS
2X4 WOOD STUDS AT 16" O.C.
FULL DEPTH INSULATION (EACH WALL FACE)
5/8" FIRE RATED GYPSUM BOARD
UNIT INTERIOR

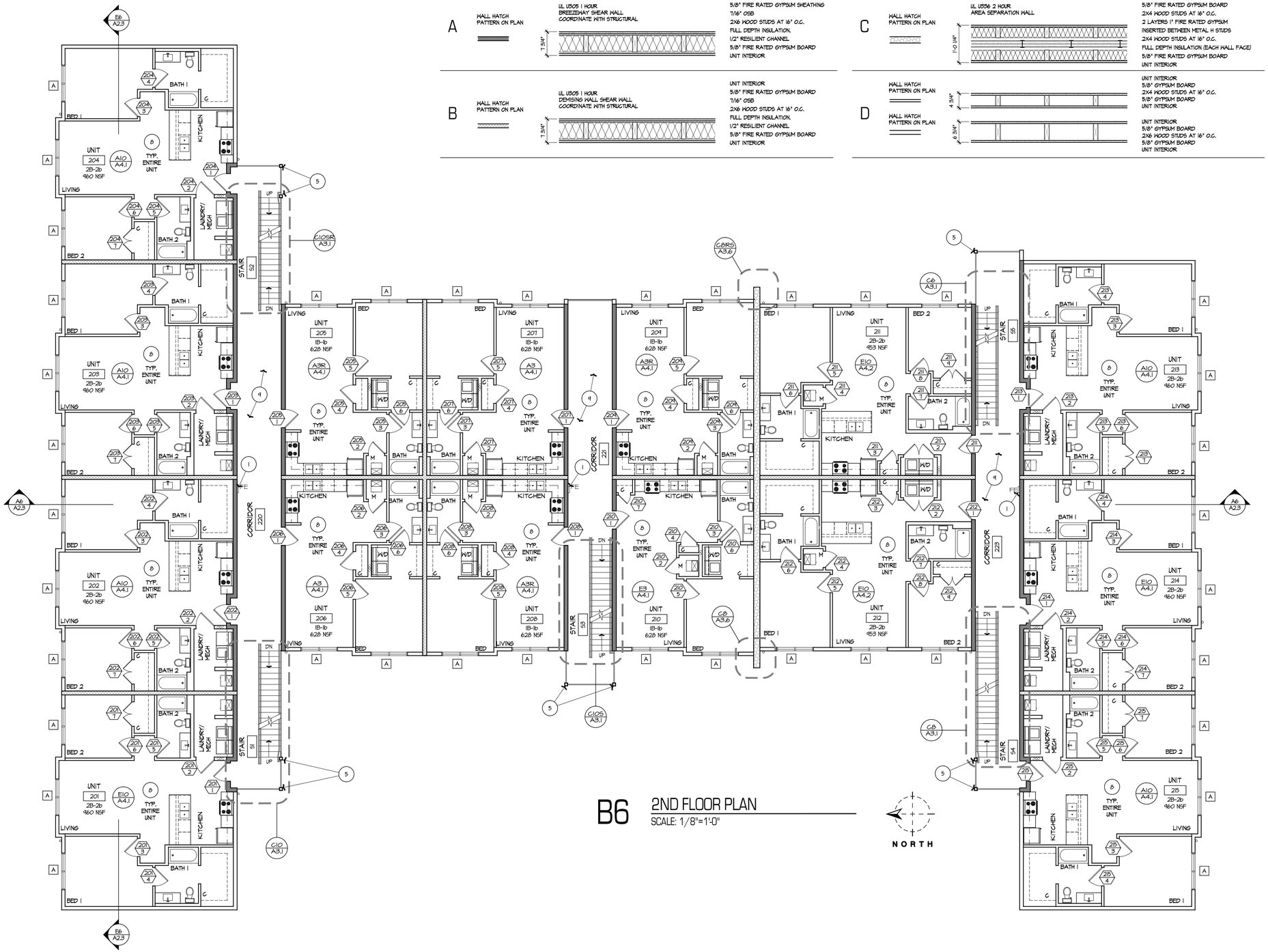
D

WALL HATCH PATTERN ON PLAN

WALL HATCH PATTERN ON PLAN

UNIT INTERIOR
5/8" GYPSUM BOARD
2X4 WOOD STUDS AT 16" O.C.
5/8" GYPSUM BOARD
UNIT INTERIOR

UNIT INTERIOR
5/8" GYPSUM BOARD
2X6 WOOD STUDS AT 16" O.C.
5/8" GYPSUM BOARD
UNIT INTERIOR



B6 2ND FLOOR PLAN

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

NORTH

KEY NOTES

1. SEMI-RECESSED FIRE EXTINGUISHER CABINET. 104413 & 10448.
2. CONCRETE RAMP. RE: STRUCTURAL.
3. 1 1/2" DIA. GALVANIZED STEEL HANDRAIL. HANDRAIL SHALL EXTEND 12" BEYOND TOP & BOTTOM OF RAMP. TOP OF HANDRAIL SHALL BE MOUNTED 36" A.F.F. ABOVE RAMP. HANDRAIL SHALL RETURN TO WALL OR FLOOR AS INDICATED ON PLAN. MOUNT 2" OFF FACE OF WALL. CONTRACTOR SHALL USE CIRCULAR MOUNTING PLATES AT THE WALL. 055123.
4. STEEL COLUMN. PAINT. RE: STRUCTURAL.
5. TREATED TIMBER COLUMN. STAIN. RE: STRUCTURAL.
6. CONCRETE RETAINING WALL. RE: STRUCTURAL.
7. NO CONCRETE SLAB THIS AREA. RE: STRUCTURAL.
8. 3/4" GYPSUM CEMENT UNDERLAYMENT. TYPICAL 2ND & 3RD FLOORS. 05415
9. COMPOSITE WOOD DECKING. 061533
10. CONCRETE STEM WALL WITH 2X2 TREATED WOOD FURRING AND 5/8" GYP. BD. WITH WOOD CAP. PAINT.

GENERAL NOTES

A. THIS PROJECT IS A SUSTAINABLE DESIGN. IT WILL ACHIEVE BRONZE LEVEL CERTIFICATION THOUGH THE NATIONAL GREEN BUILDING STANDARD. REFER TO THE PROJECT MANUAL FOR SPECIFIC SUSTAINABLE RATING SYSTEM REQUIREMENTS FOR MATERIALS AND INSTALLATIONS.

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C. PROVIDE AND INSTALL INSULATION FULL HEIGHT OF ALL INTERIOR WALLS THAT REQUIRE INSULATION AND EXTERIOR WALLS. 072100.

D. ALL INTERIOR DIMENSIONS ARE TO FACE OF GYPSUM BOARD.

E. EXTERIOR DIMENSIONS ARE FROM FACE OF EXTERIOR SHEATHING. FACE OF CONCRETE SLAB IS LOCATED AT THE FACE OF THE EXTERIOR SHEATHING.

LEGEND

- (1) — PLAN NOTE
- (B5 / 1) — DOOR DESIGNATION
- (F) — WINDOW DESIGNATION
- (F) — WALL DESIGNATION
- A3R5/A4.1 REV. SIM. — INTERIOR ELEVATION

SWD ARCHITECTS
EST 1935

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SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI
TIMOTHY O.K. WILSON
NUMBER A-6972
REGISTERED ARCHITECT

2ND FLOOR PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A1.2

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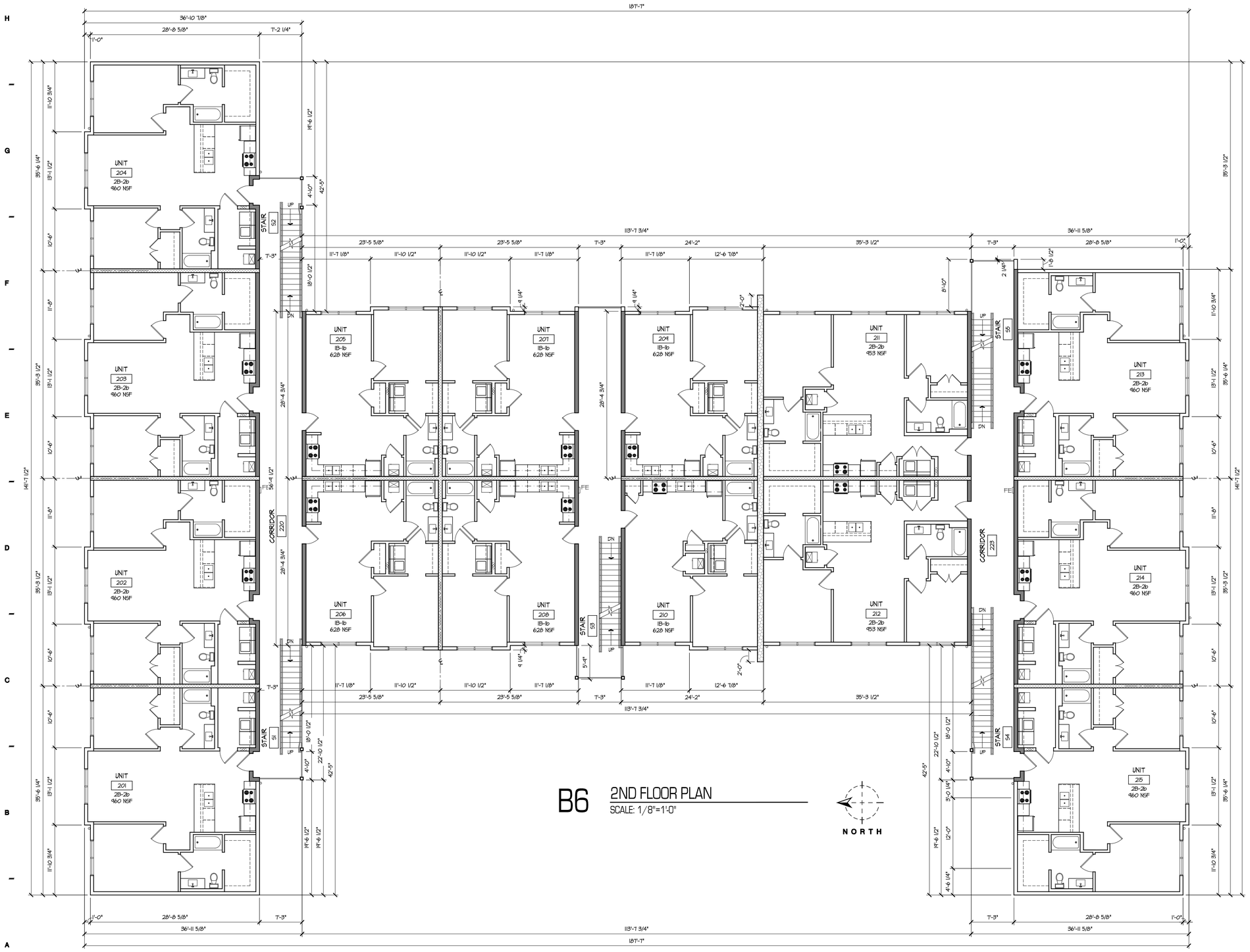
Feb 04,2019 10:07am



B6 2ND FLOOR PLAN

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

NORTH

SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
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STATE OF MISSOURI · TIMOTHY O. K. WILSON · NUMBER A-6972 · REGISTERED ARCHITECT

2ND FLOOR DIMENSION PLAN

ISSUE DATE:
02.04.2019

REVISIONS:

PROJECT NO.: 1817

A1.2D

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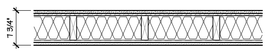
Feb 02,2019 12:49pm

WALL TYPES

A

WALL HATCH PATTERN ON PLAN

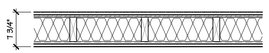


UL U305 1 HOUR
BREEZEWAY SHEAR WALL
COORDINATE WITH STRUCTURAL

EXTERIOR
5/8" FIRE RATED GYPSUM SHEATHING
7/16" OSB
2X6 WOOD STUDS AT 16" O.C.
FULL DEPTH INSULATION.
1/2" RESILIENT CHANNEL
5/8" FIRE RATED GYPSUM BOARD
UNIT INTERIOR

B

WALL HATCH PATTERN ON PLAN

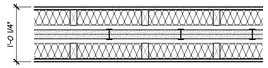


UL U305 1 HOUR
DEMISING WALL SHEAR WALL
COORDINATE WITH STRUCTURAL

UNIT INTERIOR
5/8" FIRE RATED GYPSUM BOARD
7/16" OSB
2X6 WOOD STUDS AT 16" O.C.
FULL DEPTH INSULATION.
1/2" RESILIENT CHANNEL
5/8" FIRE RATED GYPSUM BOARD
UNIT INTERIOR

C

WALL HATCH PATTERN ON PLAN

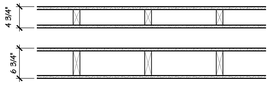


UL U336 2 HOUR
AREA SEPARATION WALL

UNIT INTERIOR
5/8" FIRE RATED GYPSUM BOARD
2X4 WOOD STUDS AT 16" O.C.
2 LAYERS 1" FIRE RATED GYPSUM
INSERTED BETWEEN METAL H STUDS
2X4 WOOD STUDS AT 16" O.C.
FULL DEPTH INSULATION (EACH WALL FACE)
5/8" FIRE RATED GYPSUM BOARD
UNIT INTERIOR

D

WALL HATCH PATTERN ON PLAN



WALL HATCH PATTERN ON PLAN

UNIT INTERIOR
5/8" GYPSUM BOARD
2X4 WOOD STUDS AT 16" O.C.
5/8" GYPSUM BOARD
UNIT INTERIOR

UNIT INTERIOR
5/8" GYPSUM BOARD
2X6 WOOD STUDS AT 16" O.C.
5/8" GYPSUM BOARD
UNIT INTERIOR

KEY NOTES

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LEGEND

- (1) — PLAN NOTE
- (05 / 1) — DOOR DESIGNATION
- (F) — WINDOW DESIGNATION
- (P) — WALL DESIGNATION
- A3RS/A4.1 REV. SIM. — INTERIOR ELEVATION

B6 3RD FLOOR PLAN

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

NORTH

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
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Y GARDENS APARTMENTS

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STATE OF MISSOURI · TIMOTHY O. K. WILSON · NUMBER A-6972 · REGISTERED ARCHITECT

3RD FLOOR PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A1.3

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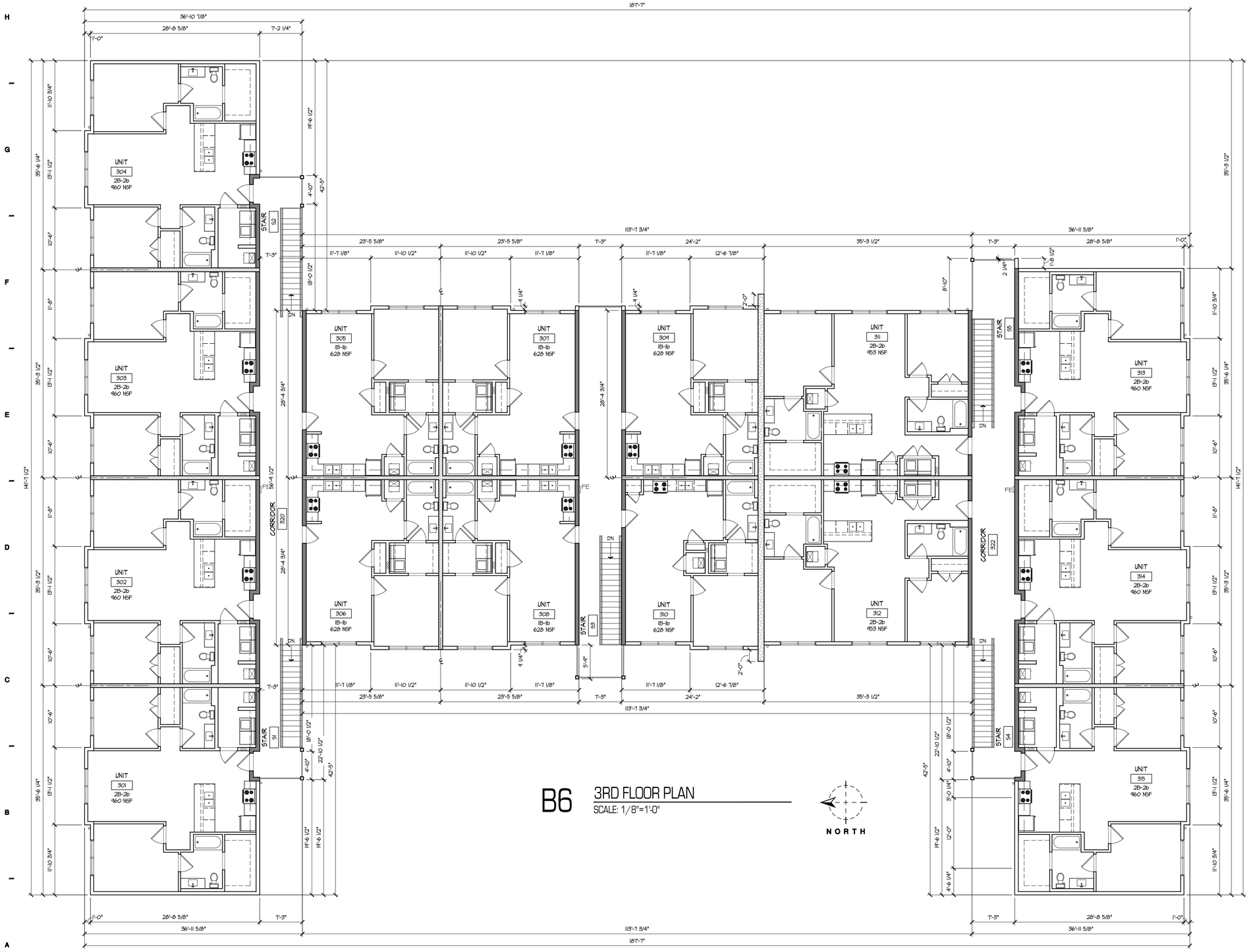

B6 3RD FLOOR PLAN

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

NORTH

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Feb 02,2019 12:47pm

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3RD FLOOR
DIMENSION PLAN

ISSUE DATE:
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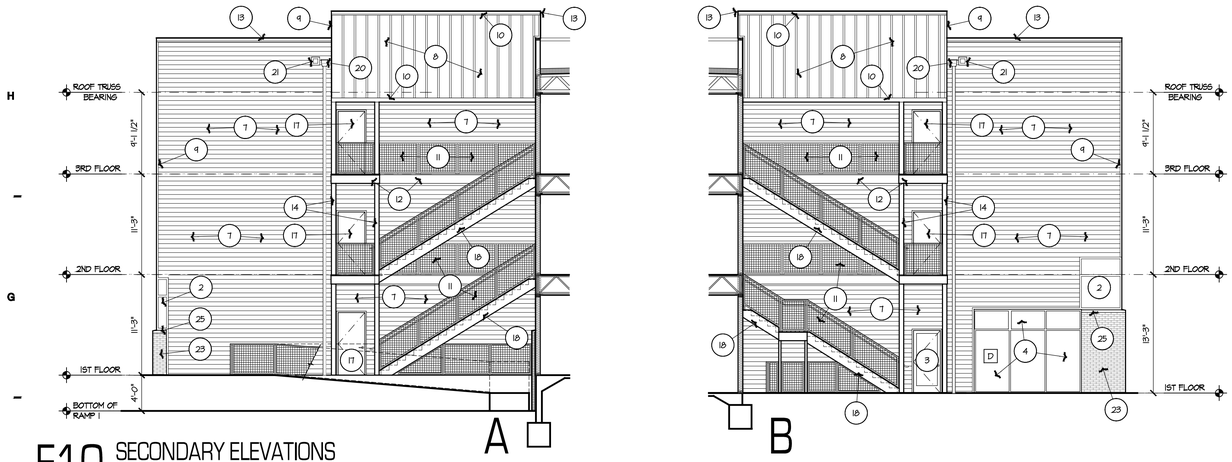
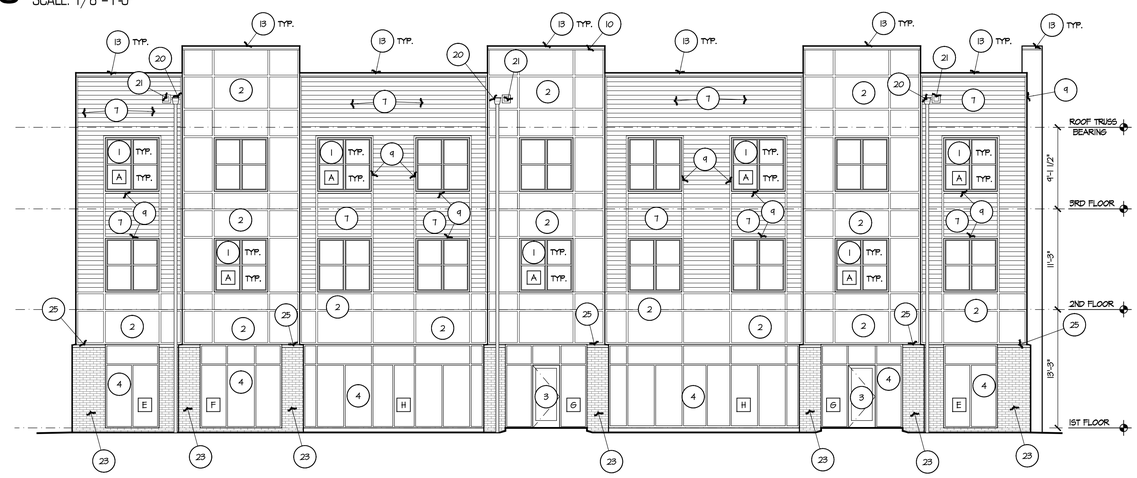
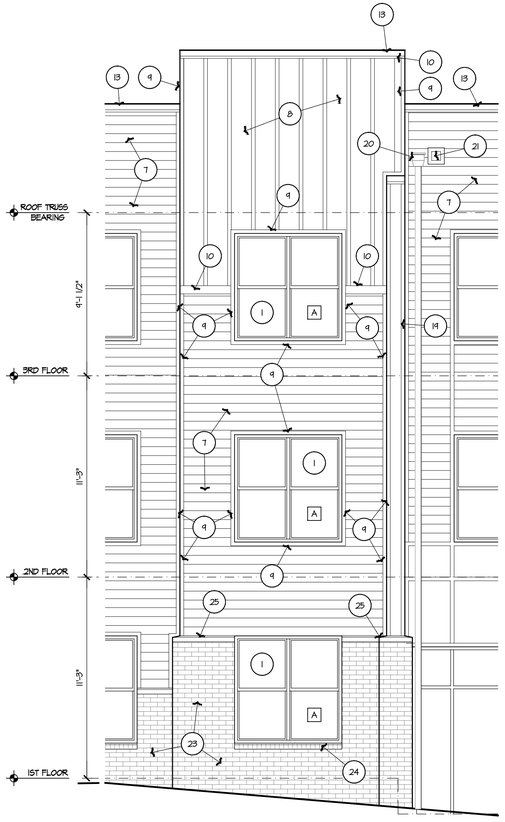
A1.3D



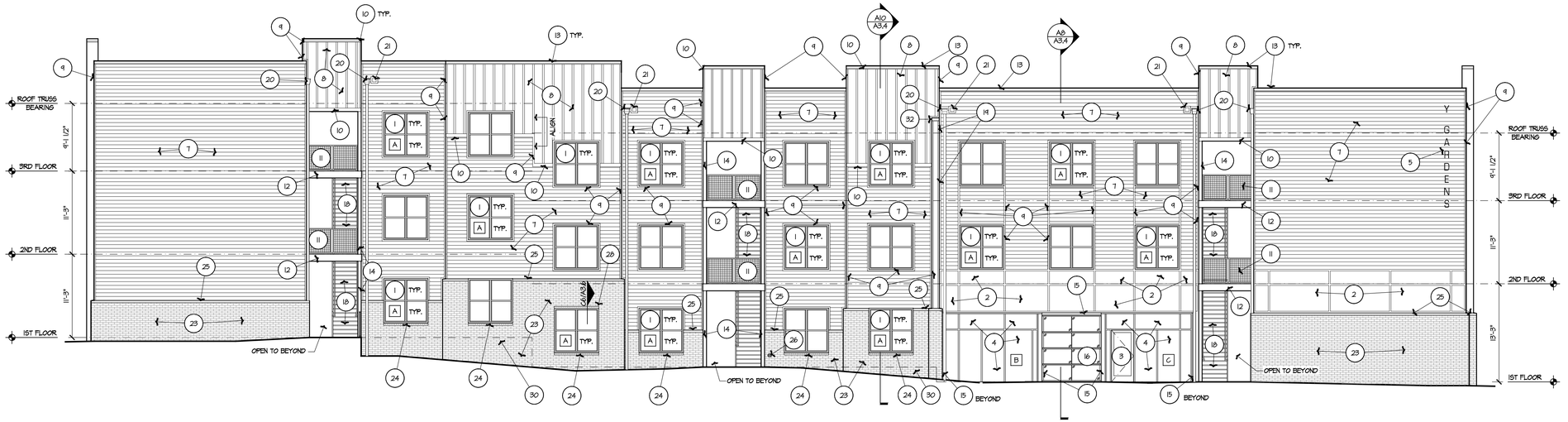
F10 SECONDARY ELEVATIONS
SCALE: 1/8"=1'-0"



D8 SOUTH ELEVATION
SCALE: 1/8"=1'-0"



D3 TYPICAL ELEVATION
SCALE: 1/4"=1'-0"



A6 COURTYARD / WEST ELEVATION
SCALE: 1/8"=1'-0"

KEY NOTES

1. VINYL WINDOW PER SCHEDULE. QUAKER ADVANTEDGE SERIES BASIS OF DESIGN. 085513
2. CEMENT FIBER VERTICAL SIDING PANEL W/ 2 1/2" CEMENT FIBER BORDER TRIM. SMOOTH PANEL & TRIM TEXTURE. INCLUDE HORIZONTAL Z-FLASHING AT ALL HORIZONTAL TRIM PER MANUFACTURER'S RECOMMENDATIONS. PAINT COLOR AS INDICATED. 074646
3. ALUMINUM STOREFRONT ENTRANCE. 084113
4. ALUMINUM STOREFRONT SYSTEM. KAWNEER TRIFAB 451UT BASIS OF DESIGN. 084113
5. BUILDING SIGNAGE W/ 12" TALL CLEAR ANODIZED CHANNEL LETTERS. FONT TO BE SELECTED BY OWNER. 101400
6. WALL MOUNTED ELECTRICAL EQUIPMENT, RE: ELECTRICAL
7. CEMENT FIBER BOARD LAP SIDING. 6" EXPOSURE. SMOOTH TEXTURE. PAINT COLOR AS INDICATED. 074646
8. CEMENT FIBER VERTICAL SIDING W/ BATTENS AT 16" O.C. SMOOTH PANEL & BATTEN TEXTURE. PAINT COLOR AS INDICATED. 074646
9. 2 1/2" CEMENT FIBER BOARD TRIM. TEXTURE & FINISH TO MATCH ADJACENT CEMENT FIBER BOARD SIDING UNLESS NOTED OTHERWISE (U.N.O.). 074646
10. SAME AS NOTE 9 EXCEPT 5 1/2" TRIM. 074646
11. GALVANIZED HSS METAL RAILING WITH 3" X 3" WELDED WIRE MESH PANELS. 055213.
12. COMPOSITE WOOD FASCIA ATTACHED TO STAIR/ DECK FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 061533
13. PREFINISHED METAL COPING W/ HEMMED EDGE. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. 077100
14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
15. PRE-FINISHED BREAK METAL INFILL PANEL. 077100
16. FULL VIEW ALUMINUM & GLASS SECTIONAL DOOR. 083613
17. EXTERIOR HOLLOW METAL DOOR. PAINT. RE: DOOR SCHEDULE. 081113
18. STEEL & WOOD STAIR. TREATED WOOD CARRIAGES BOLTED TO MC CHANNEL STEEL STRINGERS, RE: STRUCTURAL. TREADS & LANDING DECKING TO BE 2X6 NOMINAL COMPOSITE WOOD PLANK. 061533
19. KYNAR 500 PREFINISHED 1 HOUR RATED EXTERIOR EXPANSION JOINT COVER MODEL ESH-400 AS MANUFACTURED BY CONSTRUCTION SPECIALTIES. COLOR AS SELECTED FROM MANUFACTURES STANDARD COLOR CHART.
20. PRE-FINISHED CONDUCTOR HEAD & DOWNSPOUT. TERMINATE AT STORM SEWER INLET. RE: CIVIL. 076200
21. OVERFLOW THROUGH WALL SCUPPER. BOTTOM OF SCUPPER TO BE LOCATED 2" ABOVE BOTTOM OF ADJACENT SCUPPER. RE: ROOF PLAN & 64/A1.4 076200 & 077200
22. SIMILAR TO NOTE 20 EXCEPT TERMINATE AT GRADE. PROVIDE CONCRETE SPLASH BLOCK. 076200
23. FACE BRICK MASONRY VENEER. 042113
24. BRICK ROWLOCK SILL. USE SOLID UNITS AT EXPOSED ENDS. 042113
25. BRICK ROWLOCK CAP. ALIGN TOP OF CAP W/ WINDOW HEAD OR WINDOW MEETING RAIL AS SHOWN ON ELEVATIONS. USE SOLID UNITS AT EXPOSED ENDS. 042113
26. FIRE DEPARTMENT CONNECTION, RE: MEP
27. INSULATED STEEL SECTIONAL DOOR. 083613
28. BRICK HEADER COURSE WINDOW HEADER. 042113
29. CONCRETE STEM WALL, RE: STRUCTURAL. INSTALL COLD FLUID-APPLIED WATERPROOFING PRIOR TO INSTALLATION OF INSULATION/ MASONRY #1/ OR FINISH GRADING. 071416
30. SAME AS NOTE 24 EXCEPT SHOWN BEYOND AS DASHED. RE: STRUCTURAL.
31. BLOCK RETAINING WALL SHOWN AS DASHED FOR CLARITY. RE: CIVIL
32. PRE-FINISHED SHEET METAL CAP. RE: ROOF PLAN

ELEVATION GENERAL NOTES

A. INSTALL COMPLETE SIDING SYSTEM ON SHEATHING. SIDING SYSTEM MANUFACTURED BY "JAMES HARDIE BUILDING PRODUCTS." INSTALL SIDING, TRIM, CAULK & FLASHING PER MANUFACTURER'S INSTRUCTIONS. SMOOTH FINISH. ALL DETAILS SHALL BE AS REQ'D BY THE MANUFACTURER.

B. CAULK ALL WINDOW FRAMES, DOOR FRAMES, DOOR SILLS, TRIM & EXTERIOR WALL PENETRATIONS AS REQUIRED FOR WATERPROOF PERFORMANCE. COLOR TO MATCH ADJACENT TRIM / WALL SURFACE COLOR. USE CAULK TYPE RECOMMENDED BY MANUFACTURER FOR SPECIFIC JOINT MATERIAL & CONDITION.

C. ALL COLOR SELECTIONS BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.

D. ALL OPERABLE WINDOWS AT DWELLING UNITS ABOVE THE FIRST FLOOR TO HAVE OPENING CONTROL DEVICES.

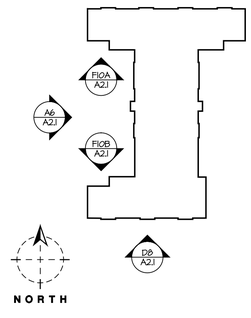
EXTERIOR FINISHES

A. CEMENT FIBER VERTICAL SIDING W/ 2 1/2" CEMENT FIBER BORDER TRIM. JAMES HARDIE. SMOOTH TEXTURE. COLOR: EXTERIOR PAINT 1 (EXT-P1) (TBD).

B. FACE BRICK VENEER. KING SIZE. COLOR TO TBD.

C. CEMENT FIBER VERTICAL SIDING W/ BATTEN BOARDS AT 16 O.C.; JAMES HARDIE. TEXTURE: SMOOTH. COLOR: EXT-P2 (TBD).

D. CEMENT FIBER LAP SIDING (6" EXPOSURE). JAMES HARDIE. TEXTURE: SMOOTH. COLOR: EXT-P3 (TBD) OR EXT-P4 (TBD). CONTRACTOR TO ALLOW FOR TWO COLOR SCHEMES AT ALL LAP SIDING.



SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI · TIMOTHY O. K. WILSON · NUMBER A-6972 · REGISTERED ARCHITECT

ELEVATIONS

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A2.1

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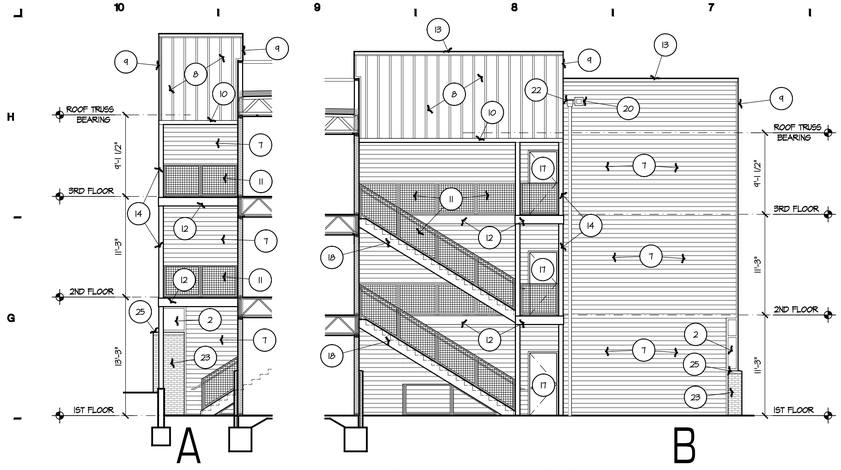
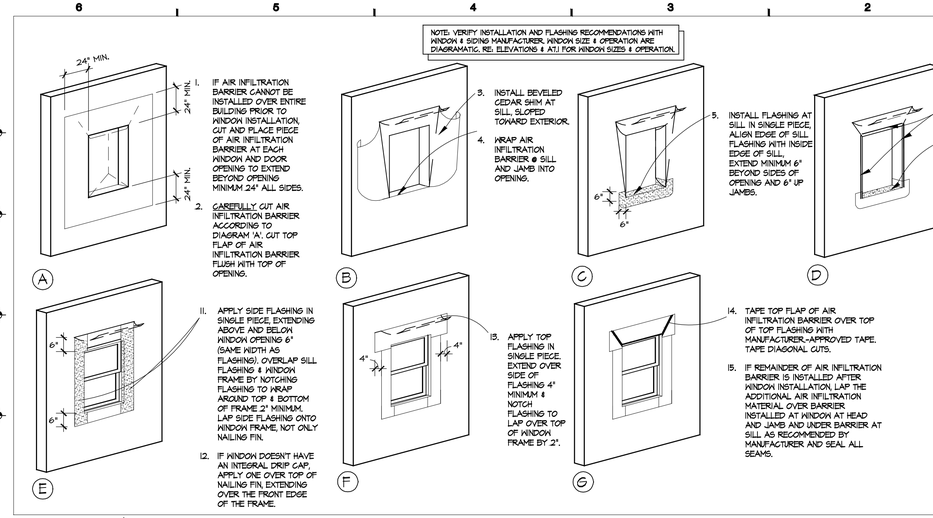


F10 SECONDARY ELEVATIONS

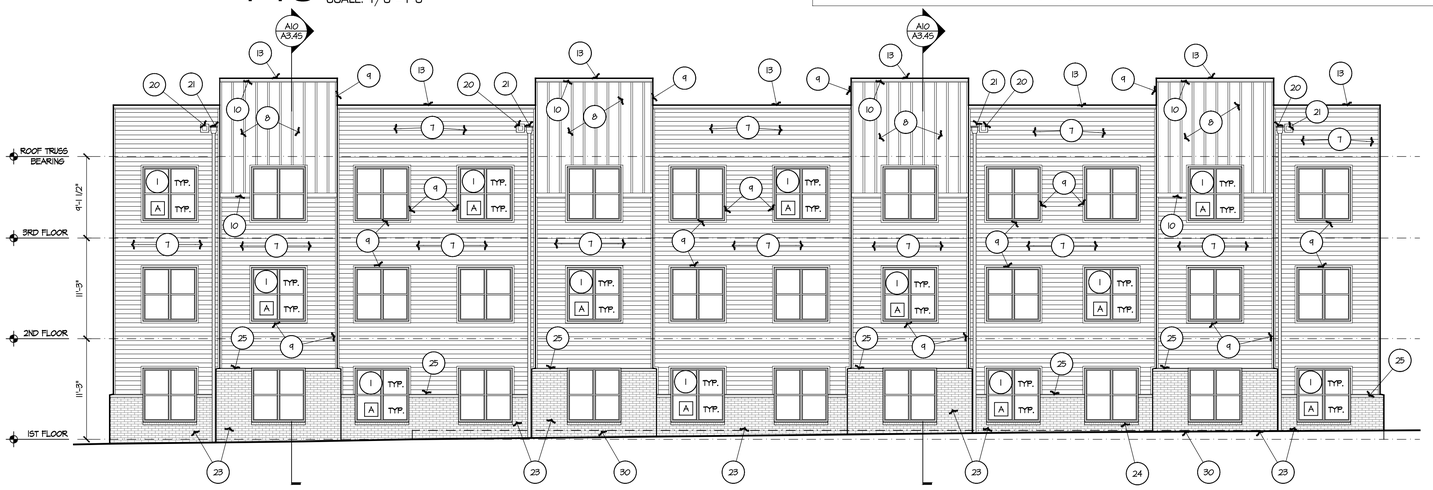
SCALE: 1/8"=1'-0"



1. IF AIR INFILTRATION BARRIER CANNOT BE INSTALLED OVER ENTIRE BUILDING PRIOR TO WINDOW INSTALLATION, CUT AND PLACE PIECE OF AIR INFILTRATION BARRIER AT EACH WINDOW AND DOOR OPENING TO EXTEND BEYOND OPENING MINIMUM 24" ALL SIDES.
2. CAREFULLY CUT AIR INFILTRATION BARRIER ACCORDING TO DIAGRAM 'A'. CUT TOP FLAP OF AIR INFILTRATION BARRIER FLUSH WITH TOP OF OPENING.
3. INSTALL BEVELED CEDAR SHIM AT SILL, SLOPED TOWARD EXTERIOR.
4. WRAP AIR INFILTRATION BARRIER @ SILL AND JAMB INTO OPENING.
5. INSTALL FLASHING AT SILL IN SINGLE PIECE. ALIGN EDGE OF SILL FLASHING WITH INSIDE EDGE OF SILL, EXTEND MINIMUM 6" BEYOND SIDES OF OPENING AND 6" UP JAMBS.
6. PLACE SEALANT AT TOP AND SIDES OF OPENING (ON SHEATHING AT TOP, ON AIR INFILTRATION BARRIER AT SIDES). DO NOT PLACE SEALANT AT SILL.
7. INSTALL SECOND CEDAR SHIM AT SILL TO LEVEL SILL FOR WINDOW INSTALL. DO NOT ANCHOR THROUGH SILL FLASHING.
8. CENTER WINDOW, LOOSELY ATTACH WITH 2 FASTENERS AND SHIM.
9. FASTEN WINDOW. ATTACH TOP FIN TO SHEATHING (UNDER LOOSE FLAP OF AIR INFILTRATION BARRIER); ATTACH SIDE FINS OVER AIR INFILTRATION BARRIER. ATTACH SILL WITH MASONRY ANCHOR TO INTERIOR FACE OF HOOD SILL.
10. APPLY CORNER GASKETS AND APPLY SEALANT AT CORNERS.
11. APPLY SIDE FLASHING IN SINGLE PIECE, EXTENDING ABOVE AND BELOW WINDOW OPENING 6" (SAME WIDTH AS FLASHING). OVERLAP SILL FLASHING & WINDOW FRAME BY NOTCHING FLASHING TO WRAP AROUND TOP & BOTTOM OF FRAME 2" MINIMUM. LAP SIDE FLASHING ONTO WINDOW FRAME, NOT ONLY NAILING FIN.
12. IF WINDOW DOESN'T HAVE AN INTEGRAL DRIP CAP, APPLY ONE OVER TOP OF NAILING FIN, EXTENDING OVER THE FRONT EDGE OF THE FRAME.
13. APPLY TOP FLASHING IN SINGLE PIECE. EXTEND OVER SIDE OF FLASHING 4" MINIMUM & NOTCH FLASHING TO LAP OVER TOP OF WINDOW FRAME BY 2".
14. TAPE TOP FLAP OF AIR INFILTRATION BARRIER OVER TOP OF TOP FLASHING WITH MANUFACTURER-APPROVED TAPE. TAPE DIAGONAL CUTS.
15. IF REMAINDER OF AIR INFILTRATION BARRIER IS INSTALLED AFTER WINDOW INSTALLATION, LAP THE ADDITIONAL AIR INFILTRATION MATERIAL OVER BARRIER INSTALLED AT WINDOW AT HEAD AND JAMB AND UNDER BARRIER AT SILL AS RECOMMENDED BY MANUFACTURER AND SEAL ALL SEAMS.

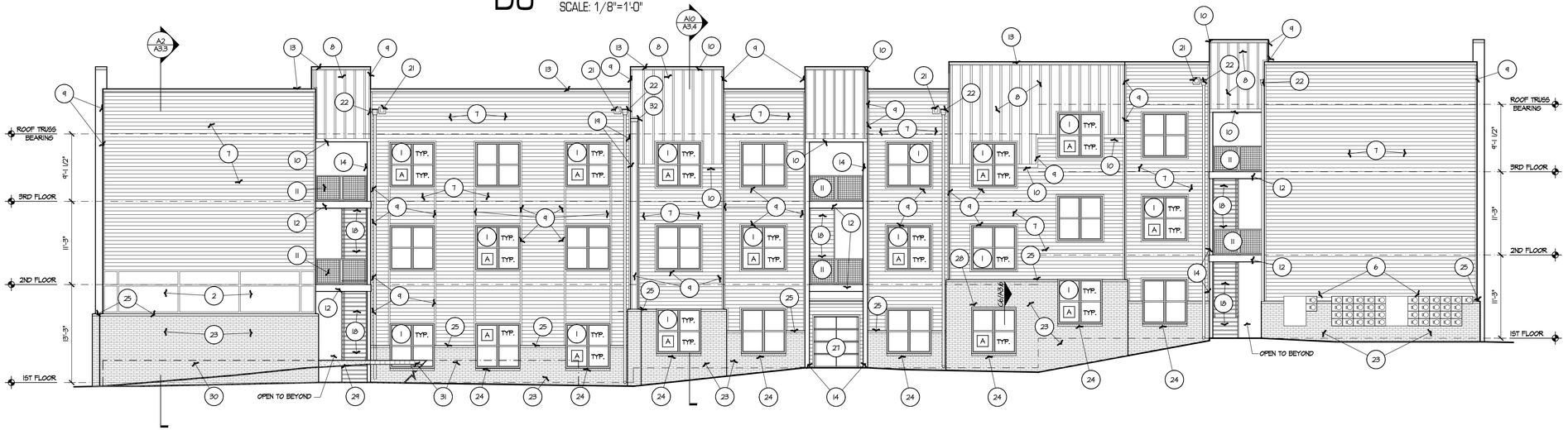
F2 WINDOW FLASHING SEQUENCE

SCALE: NOT TO SCALE



D8 NORTH ELEVATION

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



A6 EAST ELEVATION

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

KEY NOTES

1. VINYL WINDOW PER SCHEDULE. QUAKER ADVANTEDGE SERIES BASIS OF DESIGN. 085313
2. CEMENT FIBER VERTICAL SIDING PANEL W/ 2 1/2" CEMENT FIBER BORDER TRIM. SMOOTH PANEL & TRIM TEXTURE. INCLUDE HORIZONTAL Z-FLASHING AT ALL HORIZONTAL TRIM PER MANUFACTURER'S RECOMMENDATIONS. PAINT COLOR AS INDICATED. 074646
3. ALUMINUM STOREFRONT ENTRANCE. 084113
4. ALUMINUM STOREFRONT SYSTEM. KAWNEER TRIFAB 451UT BASIS OF DESIGN. 084113
5. BUILDING SIGNAGE W/ 12" TALL CLEAR ANODIZED CHANNEL LETTERS. FONT TO BE SELECTED BY OWNER. 101400
6. WALL MOUNTED ELECTRICAL EQUIPMENT. REF: ELECTRICAL
7. CEMENT FIBER BOARD LAP SIDING. 6" EXPOSURE. SMOOTH TEXTURE. PAINT COLOR AS INDICATED. 074646
8. CEMENT FIBER VERTICAL SIDING W/ BATTENS AT 16" O.C. SMOOTH PANEL & BATTEN TEXTURE. PAINT COLOR AS INDICATED. 074646
9. 2 1/2" CEMENT FIBER BOARD TRIM. TEXTURE & FINISH TO MATCH ADJACENT CEMENT FIBER BOARD SIDING UNLESS NOTED OTHERWISE (UNO.). 074646
10. SAME AS NOTE 9 EXCEPT 5 1/2" TRIM. 074646
11. GALVANIZED HSS METAL RAILING WITH 3" X 3" WELDED WIRE MESH PANELS. 055213.
12. COMPOSITE WOOD FASCIA ATTACHED TO STAIR/ DECK FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 061533
13. PREFINISHED METAL COPING W/ HEMMED EDGE. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. 077100
14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. REF: STRUCTURAL.
15. PRE-FINISHED BREAK METAL INFILL PANEL. 077100
16. FULL VIEW ALUMINUM & GLASS SECTIONAL DOOR. 083613
17. EXTERIOR HOLLOW METAL DOOR. PAINT. REF: DOOR SCHEDULE. 081113
18. STEEL & WOOD STAIR. TREATED WOOD CARRIAGES BOLTED TO MC CHANNEL STEEL STRINGERS. REF: STRUCTURAL. TREADS & LANDING DECKING TO BE 2X6 NOMINAL COMPOSITE WOOD PLANK. 061533
19. KYNAR 500 PREFINISHED 1 HOUR RATED EXTERIOR EXPANSION JOINT COVER MODEL ESH-400 AS MANUFACTURED BY CONSTRUCTION SPECIALTIES. COLOR AS SELECTED FROM MANUFACTURES STANDARD COLOR CHART.
20. PRE-FINISHED CONDUCTOR HEAD & DOWNSPOUT. TERMINATE AT STORM SEWER INLET. REF: CIVIL. 076200
21. OVERFLOW THROUGH WALL SCUPPER. BOTTOM OF SCUPPER TO BE LOCATED 2" ABOVE BOTTOM OF ADJACENT SCUPPER. REF: ROOF PLAN & 64/A1.4 076200 & 077200
22. SIMILAR TO NOTE 20 EXCEPT TERMINATE AT GRADE. PROVIDE CONCRETE SPLASH BLOCK. 076200
23. FACE BRICK MASONRY VENEER. 042113
24. BRICK ROWLOCK SILL. USE SOLID UNITS AT EXPOSED ENDS. 042113
25. BRICK ROWLOCK CAP. ALIGN TOP OF CAP W/ WINDOW HEAD OR WINDOW MEETING RAIL AS SHOWN ON ELEVATIONS. USE SOLID UNITS AT EXPOSED ENDS. 042113
26. FIRE DEPARTMENT CONNECTION. REF: MEP
27. INSULATED STEEL SECTIONAL DOOR. 083613
28. BRICK HEADER COURSE WINDOW HEADER. 042113
29. CONCRETE STEM WALL. REF: STRUCTURAL. INSTALL COLD FLUID-APPLIED WATERPROOFING PRIOR TO INSTALLATION OF INSULATION/ MASONRY #/ OR FINISH GRADING. 071416
30. SAME AS NOTE 29 EXCEPT SHOWN BEYOND AS DASHED. REF: STRUCTURAL.
31. BLOCK RETAINING WALL SHOWN AS DASHED FOR CLARITY. REF: CIVIL
32. PRE-FINISHED SHEET METAL CAP. REF: ROOF PLAN

ELEVATION GENERAL NOTES

A. INSTALL COMPLETE SIDING SYSTEM ON SHEATHING. SIDING SYSTEM MANUFACTURED BY 'JAMES HARDIE BUILDING PRODUCTS.' INSTALL SIDING, TRIM, CAULK & FLASHING PER MANUFACTURER'S INSTRUCTIONS. SMOOTH FINISH. ALL DETAILS SHALL BE AS REQ'D BY THE MANUFACTURER.

B. CAULK ALL WINDOW FRAMES, DOOR FRAMES, DOOR SILLS, TRIM & EXTERIOR WALL PENETRATIONS AS REQUIRED FOR WATERPROOF PERFORMANCE. COLOR TO MATCH ADJACENT TRIM / WALL SURFACE COLOR. USE CAULK TYPE RECOMMENDED BY MANUFACTURER FOR SPECIFIC JOINT MATERIAL & CONDITION.

C. ALL COLOR SELECTIONS BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.

D. ALL OPERABLE WINDOWS AT DWELLING UNITS ABOVE THE FIRST FLOOR TO HAVE OPENING CONTROL DEVICES.

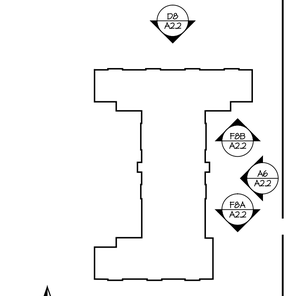
EXTERIOR FINISHES

A. CEMENT FIBER VERTICAL SIDING W/ 2 1/2" CEMENT FIBER BORDER TRIM. JAMES HARDIE. SMOOTH TEXTURE. COLOR: EXTERIOR PAINT 1 (EXT-P1) (TBD).

B. FACE BRICK VENEER. KING SIZE. COLOR TO TBD.

C. CEMENT FIBER VERTICAL SIDING W/ BATTEN BOARDS AT 16 O.C.; JAMES HARDIE. TEXTURE: SMOOTH. COLOR: EXT-P2 (TBD).

D. CEMENT FIBER LAP SIDING (6" EXPOSURE); JAMES HARDIE. TEXTURE: SMOOTH. COLOR: EXT-P3 (TBD) OR EXT-P4 (TBD). CONTRACTOR TO ALLOW FOR TWO COLOR SCHEMES AT ALL LAP SIDING.



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STATE OF MISSOURI TIMOTHY O.K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

ELEVATION

ISSUE DATE:
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REVISIONS:

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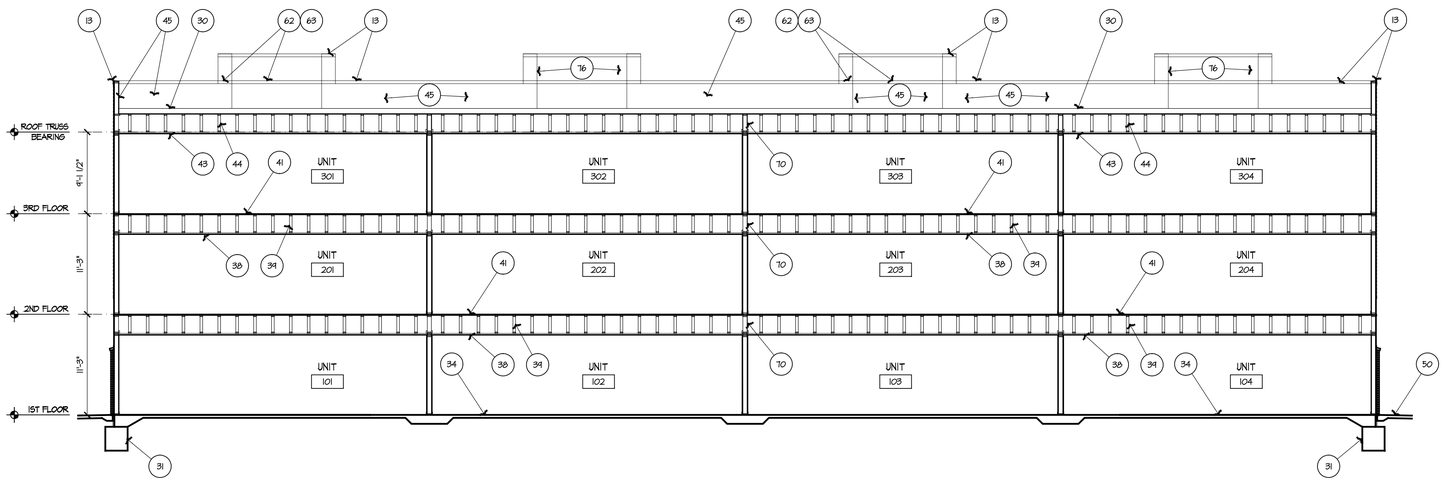
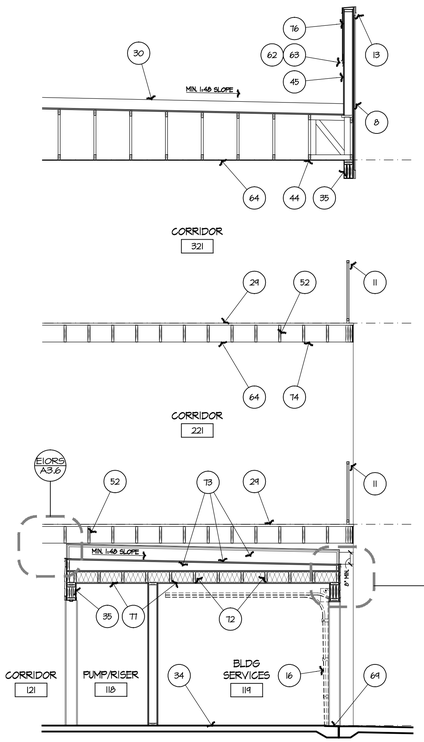


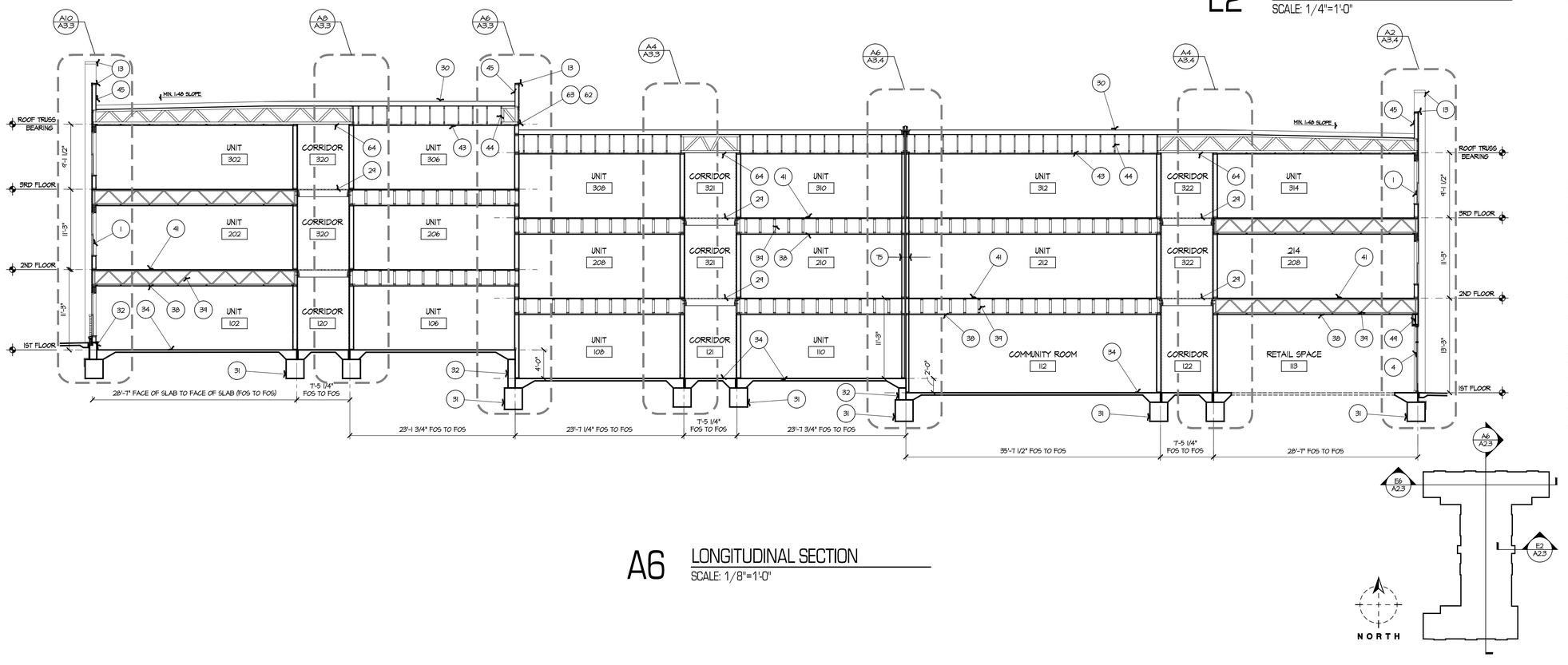
E6 TRANSVERSE SECTION

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



E2 PARTIAL SECTION

SCALE: 1/4"=1'-0"



A6 LONGITUDINAL SECTION

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

KEY NOTES

1. VINYL WINDOW PER SCHEDULE. QUAKER ADVANTEDGE SERIES BASIS OF DESIGN. 085513
2. CEMENT FIBER VERTICAL SIDING PANEL W/ 2 1/2" CEMENT FIBER BORDER TRIM. SMOOTH PANEL & TRIM TEXTURE. INCLUDE HORIZONTAL Z-FLASHING AT ALL HORIZONTAL TRIM PER MANUFACTURER'S RECOMMENDATIONS. PAINT COLOR AS INDICATED. 074646
3. ALUMINUM STOREFRONT ENTRANCE. 084113
4. ALUMINUM STOREFRONT SYSTEM. KAWNEER TRIFAB 451UT BASIS OF DESIGN. 084113
5. BUILDING SIGNAGE W/ 12" TALL CLEAR ANODIZED CHANNEL LETTERS. FONT TO BE SELECTED BY OWNER. 101400
6. WALL MOUNTED ELECTRICAL EQUIPMENT. RE: ELECTRICAL
7. CEMENT FIBER BOARD LAP SIDING. 6" EXPOSURE. SMOOTH TEXTURE. PAINT COLOR AS INDICATED. 074646
8. CEMENT FIBER VERTICAL SIDING W/ BATTENS AT 16" O.C. SMOOTH PANEL & BATTEN TEXTURE. PAINT COLOR AS INDICATED. 074646
9. 2 1/2" CEMENT FIBER BOARD TRIM. TEXTURE & FINISH TO MATCH ADJACENT CEMENT FIBER BOARD SIDING UNLESS NOTED OTHERWISE (U.N.O.). 074646
10. SAME AS NOTE '1' EXCEPT 5 1/2" TRIM. 074646
11. GALVANIZED HSS METAL RAILING WITH 3" X 3" WELDED WIRE MESH PANELS. 055213.
12. COMPOSITE WOOD FASCIA ATTACHED TO STAIR/ DECK FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 061553
13. PREFINISHED METAL COPING W/ HEMMED EDGE. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. 077200
14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
15. PRE-FINISHED BREAK METAL INFILL PANEL. 077100
16. FULL VIEW ALUMINUM & GLASS SECTIONAL DOOR. 083613
17. EXTERIOR HOLLOW METAL DOOR. PAINT. RE: DOOR SCHEDULE. 081113
18. STEEL & WOOD STAIR. TREATED WOOD CARRIAGES BOLTED TO MC CHANNEL STEEL STRINGERS. RE: STRUCTURAL. TREADS & LANDING DECKING TO BE 2X6 NOMINAL COMPOSITE WOOD PLANK. 061553
19. KYNAR 500 PREFINISHED 1 HOUR RATED EXTERIOR EXPANSION JOINT COVER MODEL ESW-400 AS MANUFACTURED BY CONSTRUCTION SPECIALTIES. COLOR AS SELECTED FROM MANUFACTURES STANDARD COLOR CHART.
20. 1/2" RC-1 RESILIENT CHANNEL.
21. 5/8" FIRE RATED FIBERGLASS-MAT FACED GYPSUM SHEATHING. 061600
22. NOT USED
23. FACE BRICK MASONRY VENEER. USE SOLID UNITS AT EXPOSED ENDS. 042113
24. BRICK ROWLOCK SILL. USE SOLID UNITS AT EXPOSED ENDS. 042113
25. BRICK ROWLOCK CAP. ALIGN TOP OF CAP W/ WINDOW HEAD OR WINDOW MEETING RAIL AS SHOWN ON ELEVATIONS. USE SOLID UNITS AT EXPOSED ENDS. 042113
26. FIRE DEPARTMENT CONNECTION. RE: MEP
27. INSULATED STEEL SECTIONAL DOOR. 083613
28. GALVANIZED STEEL ANGLE LINTEL. RE: STRUCTURAL.
29. COMPOSITE WOOD PLANK DECKING. WOOD GRAIN TEXTURE. 061553
30. TPO SINGLE PLY ROOFING ON MIN R-38 RIGID ROOF INSULATION ON PLYWOOD DECKING. SLOPE TO ROOF DRAIN CONDUCTOR HEAD. MINIMUM SLOPE OF 1:48. RE: ROOF PLANS. RE: STRUCTURAL. 075423
31. CONCRETE FOUNDATION. RE: STRUCTURAL.
32. CONCRETE STEM WALL. RE: STRUCTURAL. INSTALL COLD FLUID-APPLIED WATERPROOFING PRIOR TO INSTALLATION OF INSULATION/ MASONRY &/OR FINISH GRADING. 071416
33. R-10 RIGID INSULATION AT EDGE OF SLAB/ FOUNDATION PERIMETER. INSULATION TO EXTEND MINIMUM OF 24" BELOW TOP OF SLAB. 072100
34. REINFORCED CONCRETE SLAB OVER 15 MIL VAPOR BARRIER. RE: STRUCTURAL.
35. WOOD HEADER. RE: STRUCTURAL.
36. GYPSUM BOARD (GYP BD) WINDOW HEAD & JAMB RETURN. PAINT.
37. 1 X EASED EDGE WOOD WINDOW STOOL & 3/4" QUARTER ROUND APRON. PAINT. 062023
38. 5/8" FIRE RATED (GYP BD) ON 7/8" HAT CHANNEL & SOUND ISOLATION CLIP (1-5/8" TOTAL) PER FLOOR/ CEILING ASSEMBLY TYPE 'A'. RE: A0.3
39. PRE-ENGINEERED WOOD FLOOR TRUSS. RE: STRUCTURAL.
40. 3 1/2" BATT INSULATION. 072100
41. 3/4" GYPSUM FLOOR UNDERLAYMENT ON 3/4" TONGUE & GROOVE PLYWOOD. 035413
42. MIN. R-20 BATT INSULATION. 072100
43. 1 HR FIRE RATED ROOF ASSEMBLY PER ROOF/ CEILING ASSEMBLY TYPE 'A'. RE: A0.3
44. PRE-ENGINEERED WOOD ROOF TRUSS. TOP CHORD TO BE SLOPED MINIMUM 1:48 TOWARDS PARAPET WALLS/ THRU-WALL SCUPPERS. RE: STRUCTURAL
45. TURN ROOF MEMBRANE UP & OVER PARAPET WALL. TERMINATE BENEATH METAL FLASHING.
46. 5/8" GYP BD. RE: FLOOR PLANS FOR FIRE RATING. PAINT.
47. 7/16" OSB EXTERIOR WALL SHEATHING WITH WEATHER BARRIER. RE: STRUCTURAL. 072500
48. PRE-FINISHED METAL FLASHING W/ HEMMED EDGE. PROVIDE DRIP EDGE WHERE REQUIRED. 077100
49. STRUCTURAL STEEL BEAM. RE: STRUCTURAL.
50. EXTERIOR CONCRETE WALK. RE: CIVIL.
51. PRE-ENGINEERED WOOD BEAM. RE: STRUCTURAL.
52. 2 X EXTERIOR TREATED WOOD JOIST. RE: STRUCTURAL.
53. 2 X 6 TREATED BOTTOM PLATE W/ FOAM SILL SEALER, TERMITE SHIELD, & ANCHOR BOLT. RE: STRUCTURAL. 313116
54. MASONRY THRU WALL FLASHING W/ WEEPS AT 24" O.C. 042113
55. MINIMUM 1/4" GAP. DO NOT CAULK.
56. ADA COMPLIANT ALUMINUM DOOR THRESHOLD, SET IN BED OF SEALANT.
57. DOOR THRESHOLD TO COMPLETELY COVER SLAB EDGE INSULATION.
58. 1/4" CONCRETE EXPANSION MATERIAL.
59. HOLD SLAB EDGE INSULATION SHORT 1/2" & FILL GAP W/ ELASTOMERIC SEALANT. 079200
60. CONTINUOUS SEALANT. PROVIDE BACKER ROD AS REQUIRED. SEALANT COLOR TO BE "ALUMINUM" WHERE ADJACENT TO CLEAR ANODIZED FINISHES. 079200
61. MASONRY TIES AT 16" O.C. VERTICAL & 32" O.C. HORIZONTAL. TYPICAL. PROVIDE TIES COMPATIBLE W/ EXTERIOR RIGID WALL INSULATION WHERE APPLICABLE. 042113
62. PRE-FINISHED METAL TERMINATION BAR. 076200
63. PRE-FINISHED METAL COUNTER FLASHING. 076200
64. CEMENT FIBER BOARD SOFFIT. SMOOTH TEXTURE. PAINT. 074646
65. 2 PIECE PRE-FINISHED BRAKE METAL GARAGE DOOR JAMB. 077100 & 083613
66. HOLLOW METAL DOOR & FRAME PER DOOR SCHEDULE. PAINT. 081113
67. DOUBLE STUD AT JAMB CONDITION. TYPICAL.
68. WOOD BLOCKING/ NAILER AS REQUIRED.
69. RECESS CONCRETE SLAB AT OVERHEAD SECTIONAL DOOR THRESHOLD. RETURN RECESS AROUND JAMB TO ACCOMMODATE DOOR TRACK PER MANUFACTURER'S SPECIFICATIONS.
70. 1/2" MIN. GYP BD OR 5/8" MIN WOOD SHEATHING DRAFTSTOPPING ALIGNED W/ UNIT DEMISING WALLS. RE: ROOF PLAN FOR LOCATIONS. NOTE: CONTINUOUS SHEATHING PER STRUCTURAL CAN DOUBLE AS DRAFTSTOPPING.
71. UNDERGROUND STORM WATER PIPE. RE: CIVIL. RE: STRUCTURAL FOR REQUIREMENTS ON CONCRETE TRENCH BACKFILL.
72. 2X WOOD CEILING JOIST. RE: STRUCTURAL
73. TPO SINGLE PLY ROOFING ON 3/4" WOOD DECKING ON RIPPED 2X8 WOOD ON 3/4" WOOD DECKING. RIP SLEEPERS AT MIN. 1:48 SLOPE TO DRAIN TO EXTERIOR. TURN TPO UP CORRIDOR WALLS A MINIMUM OF 8" & TERMINATE W/ TERMINATION BAR.
74. TREATED STRUCTURAL WOOD LEDGER. RE: STRUCTURAL. PROVIDE 1/2" NEOPRENE WASHERS BETWEEN LEDGER & SHEATHING/ WEATHER BARRIER TO ALLOW FOR DRAINAGE.
75. 2 HOUR FIRE RATED AREA SEPARATION WALL PER WALL TYPE 'C'. RE: A0.2
76. CEMENT FIBER VERTICAL SIDING INSTALLED AT THE BACK OF PARAPET. PAINT. 074646
77. MIN. R-50 BATT INSULATION. 072100

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BUILDING SECTIONS

ISSUE DATE:
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A2.3

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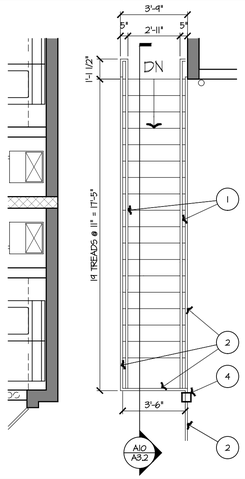
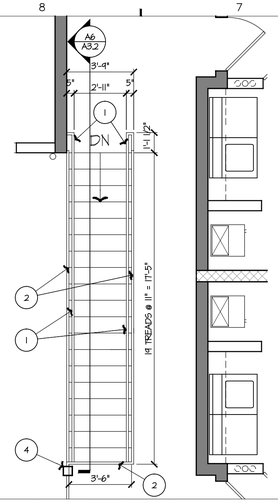


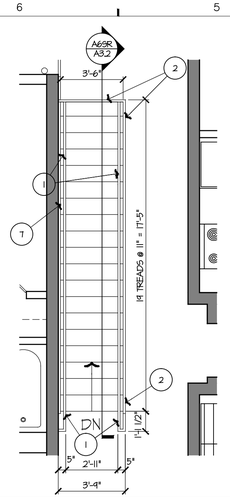
F10 ENLARGED STAIR 1 - 3RD FLOOR

SCALE: 1/4" = 1'-0" STAIR 2 & 4 SIMILAR REVERSE



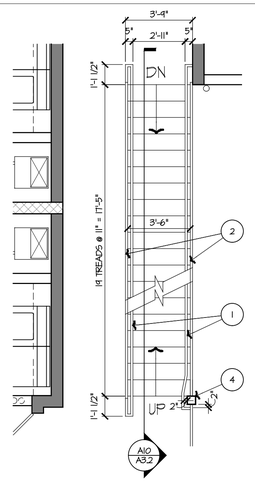
F8 ENLARGED STAIR 4 - 3RD FLOOR

SCALE: 1/4" = 1'-0"



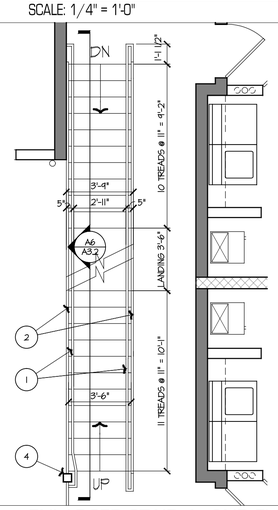
F6 ENLARGED STAIR 5 - 3RD FLOOR

SCALE: 1/4" = 1'-0"



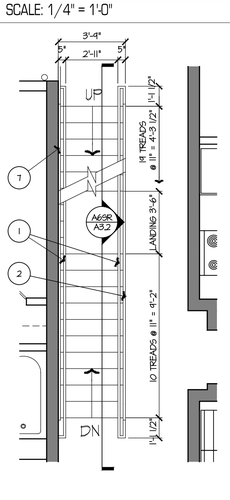
C10 ENLARGED STAIR 1 - 2ND FLOOR

SCALE: 1/4" = 1'-0" STAIR 2 & 4 SIMILAR REVERSE



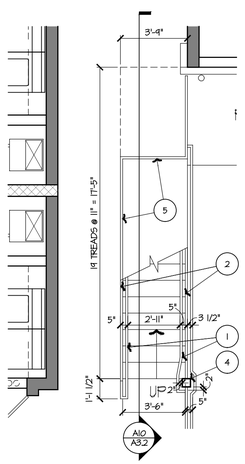
C8 ENLARGED STAIR 4 - 2ND FLOOR

SCALE: 1/4" = 1'-0"



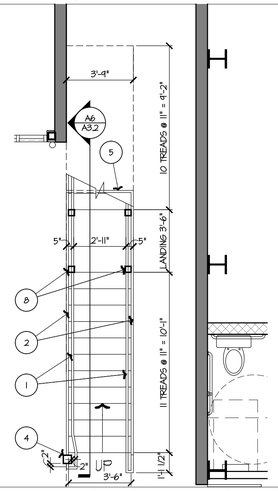
C6 ENLARGED STAIR 5 - 2ND FLOOR

SCALE: 1/4" = 1'-0"



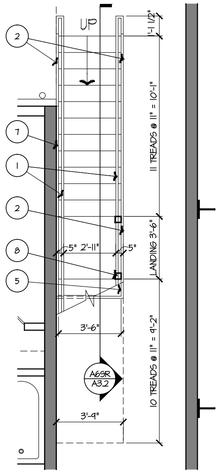
A10 ENLARGED STAIR 1 - 1ST FLOOR

SCALE: 1/4" = 1'-0" STAIR 2 & 3 SIMILAR/REVERSE



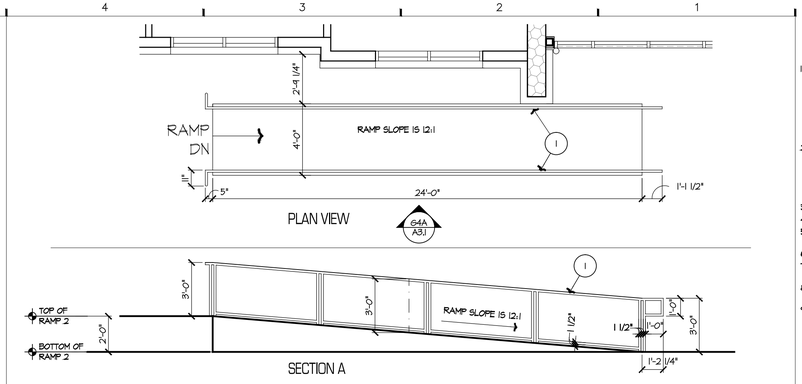
A8 ENLARGED STAIR 4 - 1ST FLOOR

SCALE: 1/4" = 1'-0"



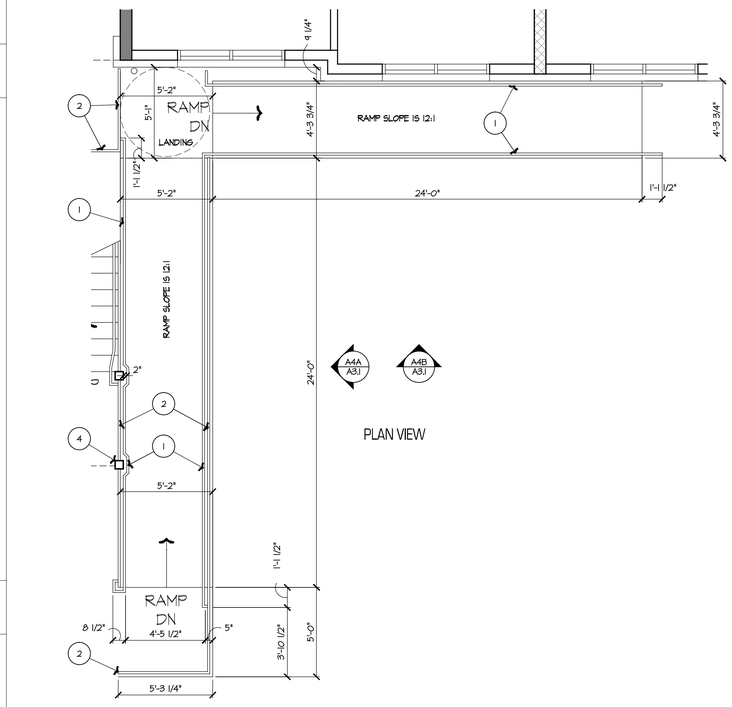
A6 ENLARGED STAIR 5 - 1ST FLOOR

SCALE: 1/4" = 1'-0"



G4 ENLARGED RAMP 2 PLAN

SCALE: 1/4" = 1'-0"



A4 ENLARGED RAMP 1 PLAN

SCALE: 1/4" = 1'-0"

KEY NOTES

1. 1 1/2" DIA. GALV. STEEL HANDRAIL, CONTINUOS. MOUNT 2" OFF GUARDRAIL / WALL. EXTEND 1'-1 1/2" PAST TOP & BOTTOM RISER. TOP OF HANDRAIL SHALL BE 36" ABOVE STAIR NOSINGS & LANDINGS. TYPICAL. RETURN HANDRAIL TO WALL / GAURDRAIL OR GROUND. AT CONC. CORE DRILL FOR SLEEVED CONNECTION, GROUT & CAULK. TYP. AT RAMP LOCATIONS WHERE ADJACENT DROP OFF IS 24" OR LESS ADD 1 1/2" BOTTOM BAR 1 1/2" A.F.F.
2. 42" HIGH 1 1/2" SQ. GALV. STEEL GUARDRAIL W/ BOTTOM BAR 1 1/2" A.F.F., W/ GALV. WIRE MESH BETWEEN BARS. MOUNT TO DECK W/ GALV. STEEL PLATE & BOLTS. AT CONC. CORE DRILL FOR SLEEVED CONNECTION, GROUT & CAULK. AT STEEL STAIR STRINGER WELD TO STRINGER. TYP.
3. COMPOSITE DECKING.
4. TREATED WOOD COLUMN. REFER TO STRUCTURAL.
5. INSTALL GUARDRAIL UNDER STAIR WHERE BOTTOM OF STAIR CONSTRUCTION IS BELOW 6'-10" A.F.F.
6. 2X TREATED WOOD FRAMING. REFER TO STRUCTURAL.
7. GALVANIZED STEEL STAIR STRINGER. REFER TO STRUCTURAL.
8. TREATED WOOD POST FOR LANDING SUPPORT. REFER TO STRUCTURAL.
9. 1"X12" CEMENT BOARD FACIA.

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MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS

1255 E. CHESTNUT

SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL

ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI TIMOTHY O. K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

ENLARGED PLANS

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A3.1

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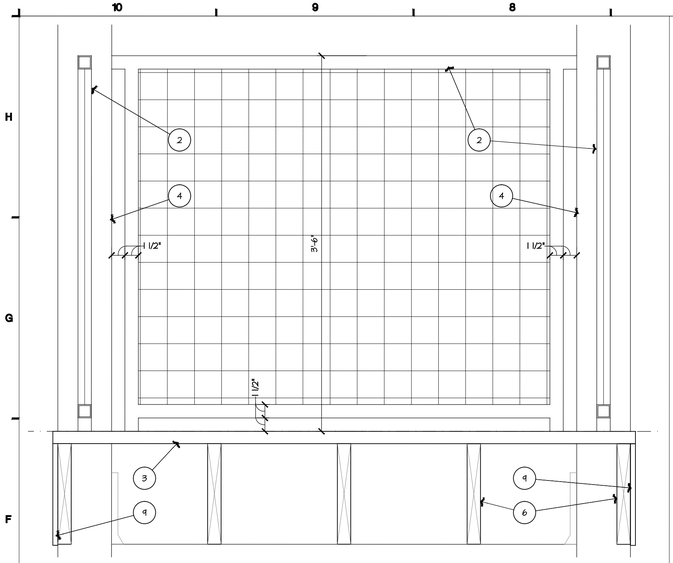
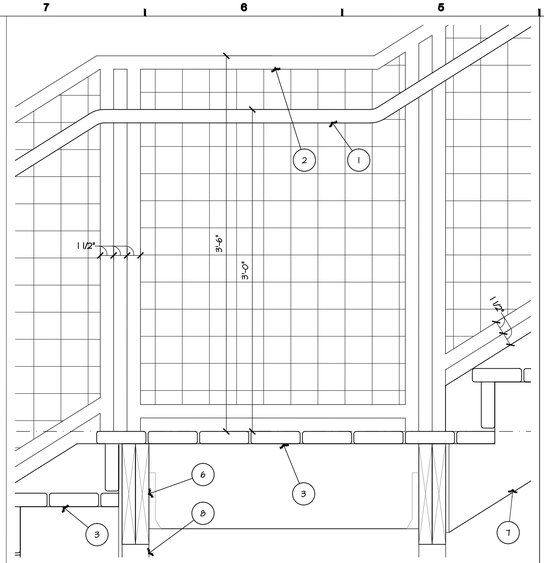
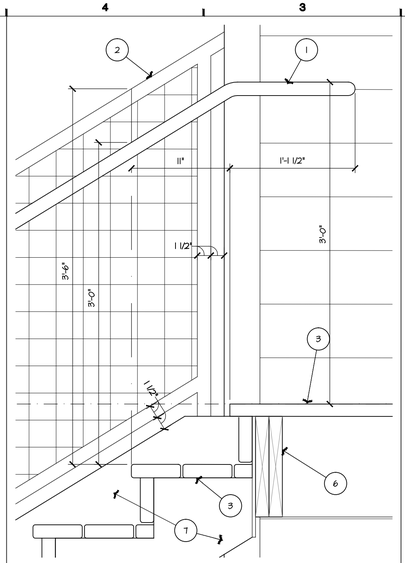


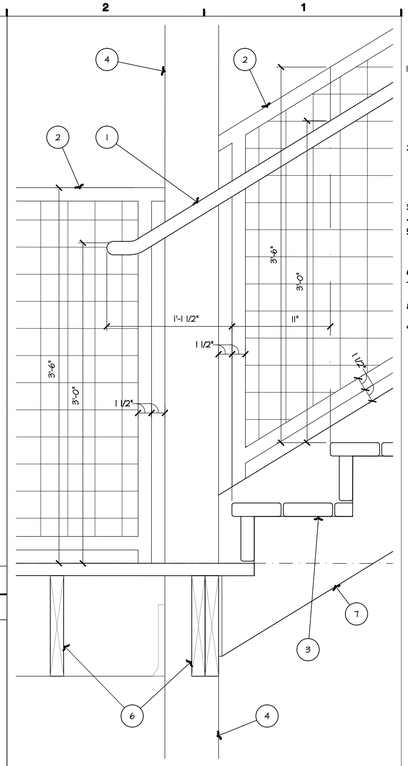
F10 STAIR DETAIL
SCALE: 1/4" = 1'-0"



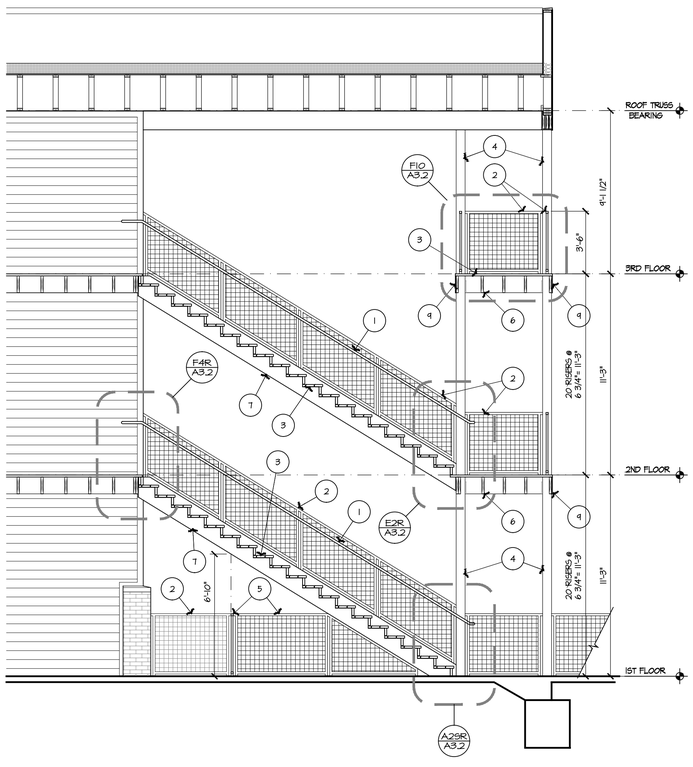
F7 STAIR DETAIL
SCALE: 1/4" = 1'-0"



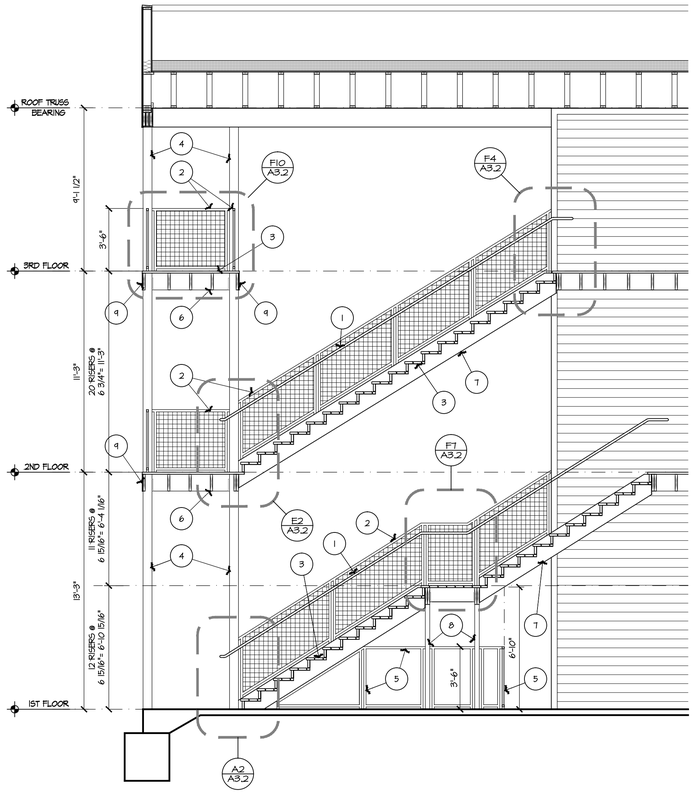
F4 STAIR DETAIL
SCALE: 1/4" = 1'-0"



E2 STAIR DETAIL
SCALE: 1 1/2" = 1'-0"



A10 STAR S1 SECTION (STAIRS S2 SIM. REV. - S3 SIM.)
SCALE: 1/4" = 1'-0"



A6 STAR S4 SECTION (STAIR S5 SIM. REV.)
SCALE: 1/4" = 1'-0"

KEYNOTES

1. 1 1/2" DIA. GALV. STEEL HANDRAIL, CONTINUOS. MOUNT 2" OFF GUARDRAIL / WALL. EXTEND 1'-1 1/2" PAST TOP & BOTTOM RISER, TOP OF HANDRAIL SHALL BE 36" ABOVE STAIR NOSINGS & LANDINGS. TYPICAL. RETURN HANDRAIL TO WALL / GUARDRAIL OR GROUND. AT CONC. CORE DRILL FOR SLEEVED CONNECTION, GROUT & CAULK. TYP. AT RAMP LOCATIONS WHERE ADJACENT DROP OFF IS 24" OR LESS ADD 1 1/2" BOTTOM BAR 1 1/2" A.F.F.
2. 42" HIGH 1 1/2" SQ. GALV. STEEL GUARDRAIL W/ BOTTOM BAR 1 1/2" A.F.F., W/ GALV. WIRE MESH BETWEEN BARS. MOUNT TO DECK W/ GALV. STEEL PLATE & BOLTS. AT CONC. CORE DRILL FOR SLEEVED CONNECTION, GROUT & CAULK. AT STEEL STAIR STRINGER WELD TO STRINGER. TYP.
3. COMPOSITE DECKING. 06I533
4. TREATED WOOD COLUMN. REFER TO STRUCTURAL.
5. INSTALL GUARDRAIL UNDER STAIR WHERE BOTTOM OF STAIR CONSTRUCTION IS BELOW 6'-10" A.F.F.. WHERE THERE IS NO ADJACENT DROP OFF THE WIRE MESH IS NOT REQUIRED.
6. 2X TREATED WOOD FRAMING. REFER TO STRUCTURAL.
7. GALVANIZED STEEL STAIR STRINGER. REFER TO STRUCTURAL.
8. TREATED WOOD POST FOR LANDING SUPPORT. REFER TO STRUCTURAL.
9. 1"X12" CEMENT BOARD FACIA.

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STATE OF MISSOURI TIMOTHY O. K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

ENLARGED STAIR SECTIONS

ISSUE DATE:
02.04.2019
REVISIONS:

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A3.2

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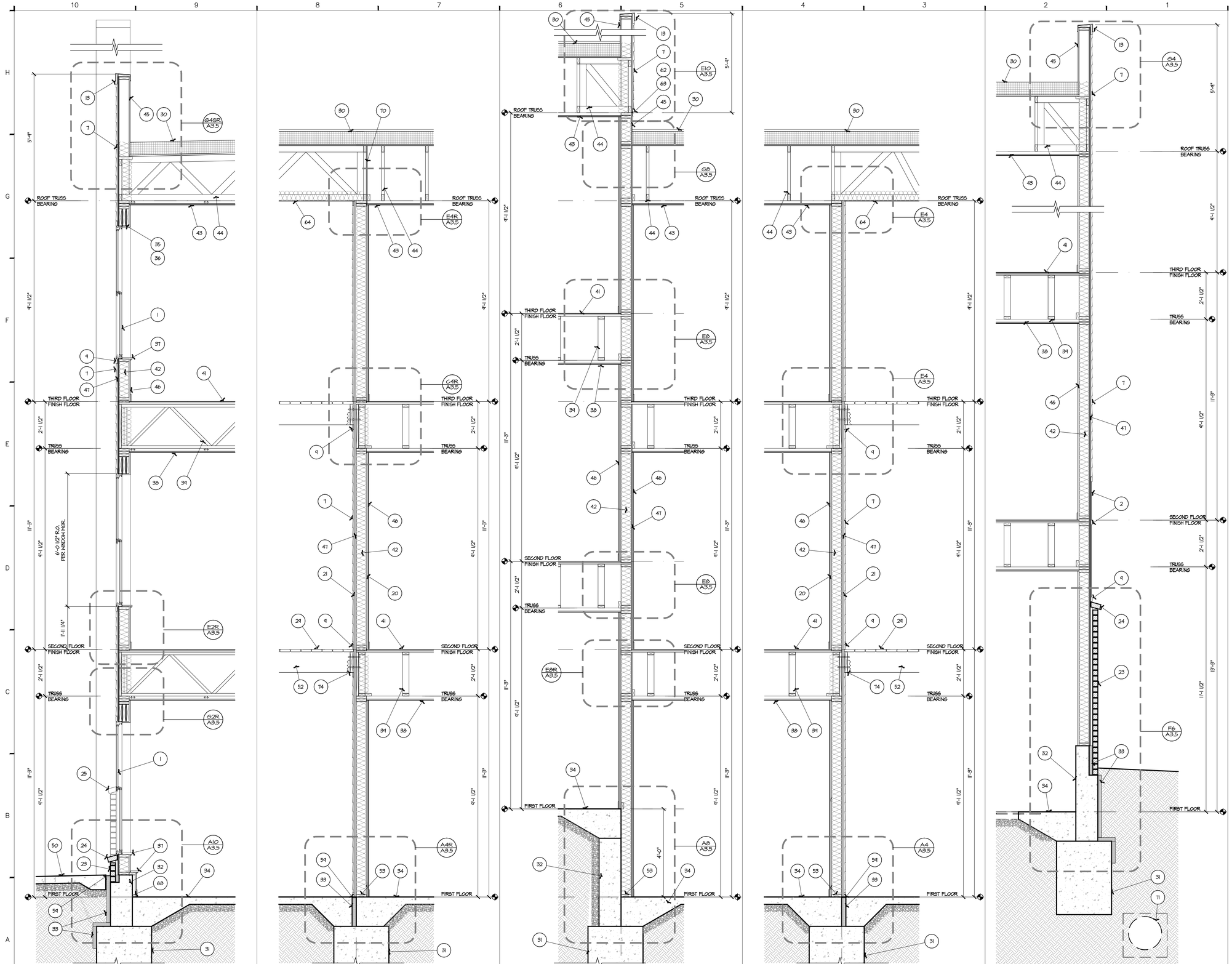

A10 WALL SECTION
SCALE: 1/2" = 1'-0"

A8 WALL SECTION
SCALE: 1/2" = 1'-0"

A6 WALL SECTION
SCALE: 1/2" = 1'-0"

A4 WALL SECTION
SCALE: 1/2" = 1'-0"

A2 WALL SECTION
SCALE: 1/2" = 1'-0"

KEY NOTES

1. VINYL WINDOW PER SCHEDULE. QUAKER ADVANTEDGE SERIES BASIS OF DESIGN. 085513
2. CEMENT FIBER VERTICAL SIDING PANEL W/ 2 1/2" CEMENT FIBER BORDER TRIM. SMOOTH PANEL & TRIM TEXTURE. INCLUDE HORIZONTAL Z-FLASHING AT ALL HORIZONTAL TRIM PER MANUFACTURER'S RECOMMENDATIONS. PAINT COLOR AS INDICATED. 074646
3. ALUMINUM STOREFRONT ENTRANCE. 084113
4. ALUMINUM STOREFRONT SYSTEM. KAWNEER TRIFAB 451UT BASIS OF DESIGN. 084113
5. BUILDING SIGNAGE W/ 12" TALL CLEAR ANODIZED CHANNEL LETTERS. FONT TO BE SELECTED BY OWNER. 101400
6. WALL MOUNTED ELECTRICAL EQUIPMENT. RE: ELECTRICAL
7. CEMENT FIBER BOARD LAP SIDING. 6" EXPOSURE. SMOOTH TEXTURE. PAINT COLOR AS INDICATED. 074646
8. CEMENT FIBER VERTICAL SIDING W/ BATTENS AT 16" O.C. SMOOTH PANEL & BATTEN TEXTURE. PAINT COLOR AS INDICATED. 074646
9. 2 1/2" CEMENT FIBER BOARD TRIM. TEXTURE & FINISH TO MATCH ADJACENT CEMENT FIBER BOARD SIDING UNLESS NOTED OTHERWISE (U.N.O.). 074646
10. SAME AS NOTE '9' EXCEPT 5 1/2" TRIM. 074646
11. GALVANIZED HSS METAL RAILING WITH 3" X 3" WELDED WIRE MESH PANELS. 055213.
12. COMPOSITE WOOD FASCIA ATTACHED TO STAIR/ DECK FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 061553
13. PREFINISHED METAL COPING W/ HEMMED EDGE. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. 077100
14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
15. PRE-FINISHED BREAK METAL INFILL PANEL. 077100
16. FULL VIEW ALUMINUM & GLASS SECTIONAL DOOR. 083613
17. EXTERIOR HOLLOW METAL DOOR. PAINT. RE: DOOR SCHEDULE. 081113
18. STEEL & WOOD STAIR. TREATED WOOD CARRIAGES BOLTED TO MC CHANNEL STEEL STRINGERS. RE: STRUCTURAL. TREADS & LANDING DECKING TO BE 2X6 NOMINAL COMPOSITE WOOD PLANK. 061553
19. KYNAR 500 PREFINISHED 1 HOUR RATED EXTERIOR EXPANSION JOINT COVER MODEL ESH-600 AS MANUFACTURED BY CONSTRUCTION SPECIALTIES. COLOR AS SELECTED FROM MANUFACTURES STANDARD COLOR CHART.
20. 1/2" RC-1 RESILIENT CHANNEL.
21. 5/8" FIRE RATED FIBERGLASS-MAT FACED GYPSUM SHEATHING. 061600
22. NOT USED
23. FACE BRICK MASONRY VENEER. USE SOLID UNITS AT EXPOSED ENDS. 042115
24. BRICK ROWLOCK SILL. USE SOLID UNITS AT EXPOSED ENDS. 042115
25. BRICK ROWLOCK CAP. ALIGN TOP OF CAP W/ WINDOW HEAD OR WINDOW MEETING RAIL AS SHOWN ON ELEVATIONS. USE SOLID UNITS AT EXPOSED ENDS. 042115
26. FIRE DEPARTMENT CONNECTION. RE: MEP
27. INSULATED STEEL SECTIONAL DOOR. 083613
28. GALVANIZED STEEL ANGLE LINTEL. RE: STRUCTURAL.
29. COMPOSITE WOOD PLANK DECKING. WOOD GRAIN TEXTURE. 061553
30. TPO SINGLE PLY ROOFING ON MIN R-38 RIGID ROOF INSULATION ON PLYWOOD DECKING. SLOPE TO ROOF DRAIN CONDUCTOR HEAD. MINIMUM SLOPE OF 1-4". RE: ROOF PLANS. RE: STRUCTURAL. 075425
31. CONCRETE FOUNDATION. RE: STRUCTURAL.
32. CONCRETE STEM WALL. RE: STRUCTURAL. INSTALL COLD FLUID-APPLIED WATERPROOFING PRIOR TO INSTALLATION OF INSULATION/ MASONRY &/OR FINISH GRADING. 071416
33. R-10 RIGID INSULATION AT EDGE OF SLAB/ FOUNDATION PERIMETER. INSULATION TO EXTEND MINIMUM OF 24" BELOW TOP OF SLAB. 072100
34. REINFORCED CONCRETE SLAB OVER 15 MIL VAPOR BARRIER. RE: STRUCTURAL.
35. WOOD HEADER. RE: STRUCTURAL.
36. GYPSUM BOARD (GYP BD) WINDOW HEAD & JAMB RETURN. PAINT.
37. 1 X EASED EDGE WOOD WINDOW STOOL & 3/4" QUARTER ROUND APRON. PAINT. 062023
38. 5/8" FIRE RATED (GYP BD) ON 7/8" HAT CHANNEL & SOUND ISOLATION CLIP. (1-5/8" TOTAL) PER FLOOR/ CEILING ASSEMBLY TYPE 'A'. RE: A0.3
39. PRE-ENGINEERED WOOD FLOOR TRUSS. RE: STRUCTURAL.
40. 3 1/2" BATT INSULATION. 072100
41. 3/4" GYPSUM FLOOR UNDERLAYMENT ON 3/4" TONGUE & GROOVE PLYWOOD. 035413
42. MIN. R-20 BATT INSULATION. 072100
43. 1 HR. FIRE RATED ROOF ASSEMBLY PER ROOF/ CEILING ASSEMBLY TYPE 'A'. RE: A0.3
44. PRE-ENGINEERED WOOD ROOF TRUSS. TOP CHORD TO BE SLOPED MINIMUM 1:48 TOWARDS PARAPET WALLS/ THRU-WALL SCUPPERS. RE: STRUCTURAL.
45. TURN ROOF MEMBRANE UP & OVER PARAPET WALL. TERMINATE BENEATH METAL FLASHING.
46. 5/8" GYP BD. RE: FLOOR PLANS FOR FIRE RATING. PAINT.
47. T1/6" OSB EXTERIOR WALL SHEATHING WITH HEATHER BARRIER. RE: STRUCTURAL. 072500
48. PRE-FINISHED METAL FLASHING W/ HEMMED EDGE. PROVIDE DRIP EDGE WHERE REQUIRED. 077100
49. STRUCTURAL STEEL BEAM. RE: STRUCTURAL.
50. EXTERIOR CONCRETE WALK. RE: CIVIL
51. PRE-ENGINEERED WOOD BEAM. RE: STRUCTURAL.
52. 2 X EXTERIOR TREATED WOOD JOIST. RE: STRUCTURAL.
53. 2 X 6 TREATED BOTTOM PLATE W/ FOAM SILL SEALER. TERMITE SHIELD, 1/2" ANCHOR BOLT. RE: STRUCTURAL. 319116
54. MASONRY THRU WALL FLASHING W/ WEEPS AT 24" O.C. 042115
55. MINIMUM 1/4" GAP. DO NOT CAULK.
56. ADA COMPLIANT ALUMINUM DOOR THRESHOLD. SET IN BED OF SEALANT.
57. DOOR THRESHOLD TO COMPLETELY COVER SLAB EDGE INSULATION.
58. 1/4" CONCRETE EXPANSION MATERIAL.
59. HOLD SLAB EDGE INSULATION SHORT 1/2" & FILL GAP W/ ELASTOMERIC SEALANT. 079200
60. CONTINUOUS SEALANT. PROVIDE BACKER ROD AS REQUIRED. SEALANT COLOR TO BE 'ALUMINUM' WHERE ADJACENT TO CLEAR ANODIZED FINISHES. 079200
61. MASONRY TIES AT 16" O.C. VERTICAL & 32" O.C. HORIZONTAL. TYPICAL. PROVIDE TIES COMPATIBLE W/ EXTERIOR RIGID WALL INSULATION WHERE APPLICABLE. 042115
62. PRE-FINISHED METAL TERMINATION BAR. 076200
63. PRE-FINISHED METAL COUNTER FLASHING. 076200
64. CEMENT FIBER BOARD SOFFIT. SMOOTH TEXTURE. PAINT. 074646
65. 2 PIECE PRE-FINISHED BRAKE METAL GARAGE DOOR JAMB. 077100 & 083613
66. HOLLOW METAL DOOR & FRAME PER DOOR SCHEDULE. PAINT. 081113
67. DOUBLE STUD AT JAMB CONDITION. TYPICAL.
68. WOOD BLOCKING/ NAILER AS REQUIRED.
69. RECESS CONCRETE SLAB AT OVERHEAD SECTIONAL DOOR THRESHOLD. RETURN RECESS AROUND JAMB TO ACCOMMODATE DOOR TRACK PER MANUFACTURER'S SPECIFICATIONS.
70. 1/2" MIN. GYP BD OR 3/8" MIN WOOD SHEATHING DRAFTSTOPPING ALIGNED W/ UNIT DEMISING WALLS. RE: ROOF PLAN FOR LOCATIONS. NOTE: CONTINUOUS SHEATHING PER STRUCTURAL CAN DOUBLE AS DRAFTSTOPPING.
71. UNDERGROUND STORM WATER PIPE. RE: CIVIL. RE: STRUCTURAL FOR REQUIREMENTS ON CONCRETE TRENCH BACKFILL.
72. 2X WOOD CEILING JOIST. RE: STRUCTURAL
73. TPO SINGLE PLY ROOFING ON 3/4" WOOD DECKING ON RIPPED 2X8 WOOD ON 3/4" WOOD DECKING. RIP SLEEPERS AT MIN. 1:48 SLOPE TO DRAIN TO EXTERIOR. TURN TPO UP CORRIDOR WALLS A MINIMUM OF 8" & TERMINATE W/ TERMINATION BAR.
74. TREATED STRUCTURAL WOOD LEDGER. RE: STRUCTURAL. PROVIDE 1/2" NEOPRENE WASHERS BETWEEN LEDGER & SHEATHING/ WEATHER BARRIER TO ALLOW FOR DRAINAGE.
75. 2 HOUR FIRE RATED AREA SEPARATION WALL PER WALL TYPE 'C'. RE: A0.2
76. CEMENT FIBER VERTICAL SIDING INSTALLED AT THE BACK OF PARAPET. PAINT. 074646
77. MIN. R-30 BATT INSULATION. 072100

SWD ARCHITECTS
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STATE OF MISSOURI · TIMOTHY O.K. WILSON · NUMBER A-6972 · REGISTERED ARCHITECT

WALL SECTIONS

ISSUE DATE:
02.04.2019

REVISIONS:

PROJECT NO.: 1817

A3.3

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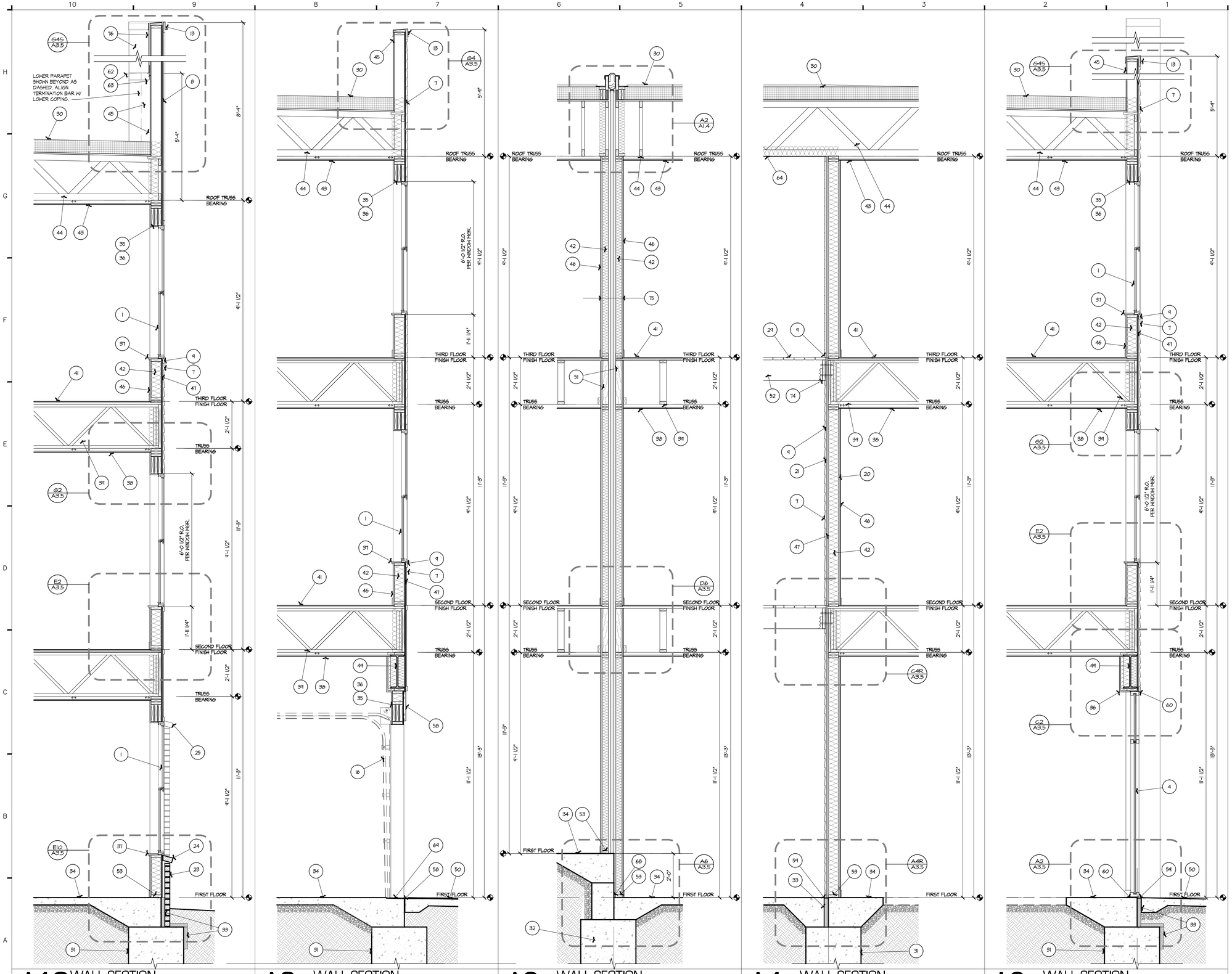
Feb 04,2019 10:11am



A10 WALL SECTION
SCALE: 1/2" = 1'-0"

A8 WALL SECTION
SCALE: 1/2" = 1'-0"

A6 WALL SECTION
SCALE: 1/2" = 1'-0"

A4 WALL SECTION
SCALE: 1/2" = 1'-0"

A2 WALL SECTION
SCALE: 1/2" = 1'-0"

KEY NOTES

1. VINYL WINDOW PER SCHEDULE. QUAKER ADVANTEDGE SERIES BASIS OF DESIGN. 088513
2. CEMENT FIBER VERTICAL SIDING PANEL W/ 2 1/2" CEMENT FIBER BORDER TRIM. SMOOTH PANEL & TRIM TEXTURE. INCLUDE HORIZONTAL Z-FLASHING AT ALL HORIZONTAL TRIM PER MANUFACTURER'S RECOMMENDATIONS. PAINT COLOR AS INDICATED. 074646
3. ALUMINUM STOREFRONT ENTRANCE. 084113
4. ALUMINUM STOREFRONT SYSTEM. KAWNEER TRIFAB 451UT BASIS OF DESIGN. 084113
5. BUILDING SIGNAGE W/ 12" TALL CLEAR ANODIZED CHANNEL LETTERS. FONT TO BE SELECTED BY OWNER. 101400
6. WALL MOUNTED ELECTRICAL EQUIPMENT. RE: ELECTRICAL
7. CEMENT FIBER BOARD LAP SIDING. 6" EXPOSURE. SMOOTH TEXTURE. PAINT COLOR AS INDICATED. 074646
8. CEMENT FIBER VERTICAL SIDING W/ BATTENS AT 16" O.C. SMOOTH PANEL & BATTEN TEXTURE. PAINT COLOR AS INDICATED. 074646
9. 2 1/2" CEMENT FIBER BOARD TRIM. TEXTURE & FINISH TO MATCH ADJACENT CEMENT FIBER BOARD SIDING UNLESS NOTED OTHERWISE (U.N.O.). 074646
10. SAME AS NOTE '9' EXCEPT 5 1/2" TRIM. 074646
11. GALVANIZED HSS METAL RAILING WITH 3" X 5" WELDED WIRE MESH PANELS. 055213.
12. COMPOSITE WOOD FASCIA ATTACHED TO STAIR/ DECK FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 061313
13. PREFINISHED METAL COPING W/ HEMMED EDGE. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. 077100
14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
15. PRE-FINISHED BREAK METAL INFILL PANEL. 077100
16. FULL VIEW ALUMINUM & GLASS SECTIONAL DOOR. 083613
17. EXTERIOR HOLLOW METAL DOOR. PAINT. RE: DOOR SCHEDULE. 081113
18. STEEL & WOOD STAIR. TREATED WOOD CARRIAGES BOLTED TO MC CHANNEL STEEL STRINGERS. RE: STRUCTURAL. TREADS & LANDING DECKING TO BE 2X6 NOMINAL COMPOSITE WOOD PLANK. 061309
19. KYNAR 500 PREFINISHED 1 HOUR RATED EXTERIOR EXPANSION JOINT COVER MODEL ESH-400 AS MANUFACTURED BY CONSTRUCTION SPECIALTIES. COLOR AS SELECTED FROM MANUFACTURES STANDARD COLOR CHART.
20. 1/2" RC-1 RESILIENT CHANNEL.
21. 5/8" FIRE RATED FIBERGLASS-MAT FACED GYPSUM SHEATHING. 061600
22. NOT USED
23. FACE BRICK MASONRY VENEER. USE SOLID UNITS AT EXPOSED ENDS. 042113
24. BRICK ROWLOCK SILL. USE SOLID UNITS AT EXPOSED ENDS. 042113
25. BRICK ROWLOCK CAP. ALIGN TOP OF CAP W/ WINDOW HEAD OR WINDOW MEETING RAIL, AS SHOWN ON ELEVATIONS. USE SOLID UNITS AT EXPOSED ENDS. 042113
26. FIRE DEPARTMENT CONNECTION. RE: MEP
27. INSULATED STEEL SECTIONAL DOOR. 083613
28. GALVANIZED STEEL ANGLE LINTEL. RE: STRUCTURAL.
29. COMPOSITE WOOD PLANK DECKING. WOOD GRAIN TEXTURE. 061313
30. TPO SINGLE PLY ROOFING ON MIN R-38 RIGID ROOF INSULATION ON PLYWOOD DECKING. SLOPE TO ROOF DRAIN CONDUCTOR HEAD. MINIMUM SLOPE OF 1:48. RE: ROOF PLANS. RE: STRUCTURAL. 075425
31. CONCRETE FOUNDATION. RE: STRUCTURAL.
32. CONCRETE STEM WALL. RE: STRUCTURAL. INSTALL COLD FLUID-APPLIED WATERPROOFING PRIOR TO INSTALLATION OF INSULATION/ MASONRY & /OR FINISH GRADING. 071416
33. R-10 RIGID INSULATION AT EDGE OF SLAB/ FOUNDATION PERIMETER. INSULATION TO EXTEND MINIMUM OF 24" BELOW TOP OF SLAB. 072100
34. REINFORCED CONCRETE SLAB OVER 15 MIL VAPOR BARRIER. RE: STRUCTURAL.
35. WOOD HEADER. RE: STRUCTURAL.
36. GYPSUM BOARD (GYP BD) WINDOW HEAD & JAMB RETURN. PAINT.
37. 1 X EASED EDGE WOOD WINDOW STOOL & 3/4" QUARTER ROUND APRON. PAINT. 062023
38. 5/8" FIRE RATED (GYP BD) ON 7/8" HAT CHANNEL & SOUND ISOLATION CLIP (1-5/8" TOTAL) PER FLOOR/ CEILING ASSEMBLY TYPE 'A'. RE: A0.3
39. PRE-ENGINEERED WOOD FLOOR TRUSS. RE: STRUCTURAL.
40. 3 1/2" BATT INSULATION. 072100
41. 3/4" GYPSUM FLOOR UNDERLAYMENT ON 3/4" TONGUE & GROOVE PLYWOOD. 055413
42. MIN. R-20 BATT INSULATION. 072100
43. 1 HR FIRE RATED ROOF ASSEMBLY PER ROOF/ CEILING ASSEMBLY TYPE 'A'. RE: A0.3
44. PRE-ENGINEERED WOOD ROOF TRUSS. TOP CHORD TO BE SLOPED MINIMUM 1:48 TOWARDS PARAPET WALLS/ THRU-WALL SCUPPERS. RE: STRUCTURAL.
45. TURN ROOF MEMBRANE UP & OVER PARAPET WALL. TERMINATE BENEATH METAL FLASHING.
46. 5/8" GYP BD. RE: FLOOR PLANS FOR FIRE RATING. PAINT.
47. 7/16" OSB EXTERIOR WALL SHEATHING WITH WEATHER BARRIER. RE: STRUCTURAL. 072500
48. PRE-FINISHED METAL FLASHING W/ HEMMED EDGE. PROVIDE DRIP EDGE WHERE REQUIRED. 077100
49. STRUCTURAL STEEL BEAM. RE: STRUCTURAL.
50. EXTERIOR CONCRETE WALK. RE: CIVIL.
51. PRE-ENGINEERED WOOD BEAM. RE: STRUCTURAL.
52. 2 X EXTERIOR TREATED WOOD JOIST. RE: STRUCTURAL.
53. 2 X 6 TREATED BOTTOM PLATE W/ FOAM SILL SEALER, TERMITE SHIELD, & ANCHOR BOLT. RE: STRUCTURAL. 313116
54. MASONRY WALL FLASHING W/ WEEPS AT 24" O.C. 042113
55. MINIMUM 1/4" GAP. DO NOT CAULK.
56. ADA COMPLIANT ALUMINUM DOOR THRESHOLD. SET IN BED OF SEALANT.
57. DOOR THRESHOLD TO COMPLETELY COVER SLAB EDGE INSULATION.
58. 1/4" CONCRETE EXPANSION MATERIAL.
59. HOLD SLAB EDGE INSULATION SHORT 1/2" & FILL GAP W/ ELASTOMERIC SEALANT. 079200
60. CONTINUOUS SEALANT. PROVIDE BACKER ROD AS REQUIRED. SEALANT COLOR TO BE 'ALUMINUM' WHERE ADJACENT TO CLEAR ANODIZED FINISHES. 079200
61. MASONRY TIES AT 16" O.C. VERTICAL & 32" O.C. HORIZONTAL. TYPICAL. PROVIDE TIES COMPATIBLE W/ EXTERIOR RIGID WALL INSULATION WHERE APPLICABLE. 042113
62. PRE-FINISHED METAL TERMINATION BAR. 076200
63. PRE-FINISHED METAL COUNTER FLASHING. 076200
64. CEMENT FIBER BOARD SOFFIT. SMOOTH TEXTURE. PAINT. 074646
65. 2 PIECE PRE-FINISHED BRAKE METAL GARAGE DOOR JAMB. 077100 & 085613
66. HOLLOW METAL DOOR & FRAME PER DOOR SCHEDULE. PAINT. 081113
67. DOUBLE STUD AT JAMB CONDITION. TYPICAL.
68. WOOD BLOCKING/ NAILER AS REQUIRED.
69. RECESS CONCRETE SLAB AT OVERHEAD SECTIONAL DOOR THRESHOLD. RETURN RECESS AROUND JAMB TO ACCOMMODATE DOOR TRACK PER MANUFACTURER'S SPECIFICATIONS.
70. 1/2" MIN. GYP BD OR 3/8" MIN WOOD SHEATHING DRAFTSTOPPING ALIGNED W/ UNIT DEMISING WALLS. RE: ROOF PLAN FOR LOCATIONS. NOTE: CONTINUOUS SHEATHING PER STRUCTURAL CAN DOUBLE AS DRAFTSTOPPING.
71. UNDERGROUND STORM WATER PIPE. RE: CIVIL. RE: STRUCTURAL FOR REQUIREMENTS ON CONCRETE TRENCH BACKFILL.
72. 2X WOOD CEILING JOIST. RE: STRUCTURAL.
73. TPO SINGLE PLY ROOFING ON 5/4" WOOD DECKING ON RIPPED 2X8 WOOD ON 5/4" WOOD DECKING. RIP SLEEPERS AT MIN. 1:48 SLOPE TO DRAIN TO EXTERIOR. TURN TPO UP CORRIDOR WALLS A MINIMUM OF 8" & TERMINATE W/ TERMINATION BAR.
74. TREATED STRUCTURAL WOOD LEDGER. RE: STRUCTURAL. PROVIDE 1/2" NEOPRENE WASHERS BETWEEN LEDGER & SHEATHING/ WEATHER BARRIER TO ALLOW FOR DRAINAGE.
75. 2 HOUR FIRE RATED AREA SEPARATION WALL PER WALL TYPE 'C'. RE: A0.2
76. CEMENT FIBER VERTICAL SIDING INSTALLED AT THE BACK OF PARAPET. PAINT. 074646
77. MIN. R-50 BATT INSULATION. 072100

SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI
TIMOTHY O. K. WILSON
NUMBER A-6972
REGISTERED ARCHITECT

WALL SECTIONS

ISSUE DATE:
02.04.2019

REVISIONS:

PROJECT NO.: 1817

A3.4

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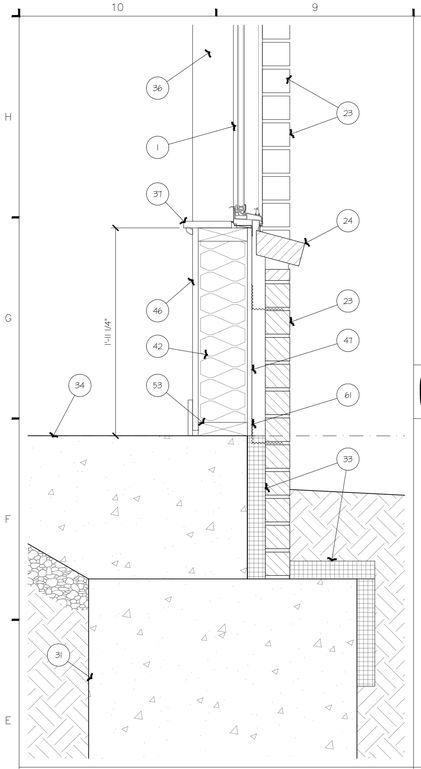
Feb 04,2019 10:12am



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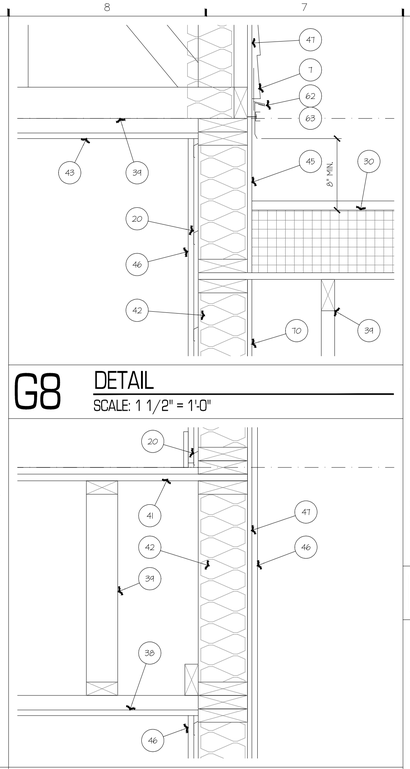

G8 DETAIL
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E8 DETAIL
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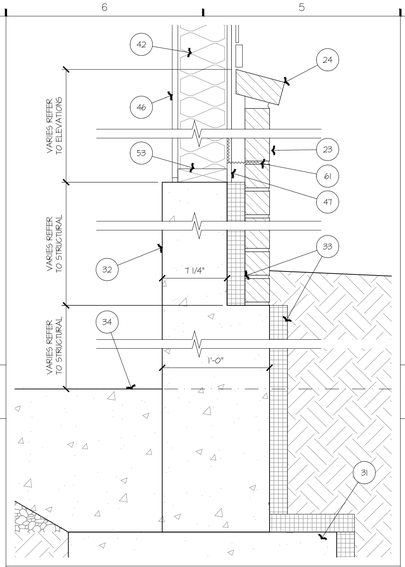

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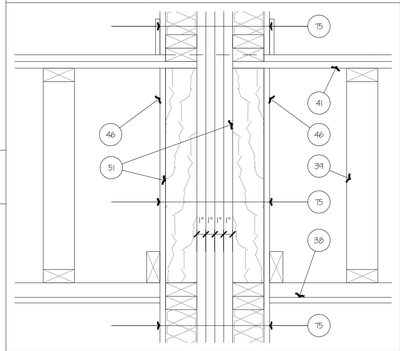

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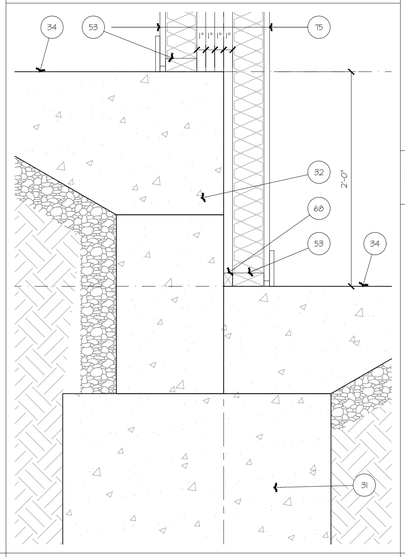

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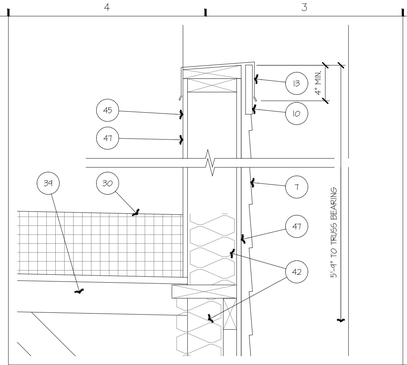

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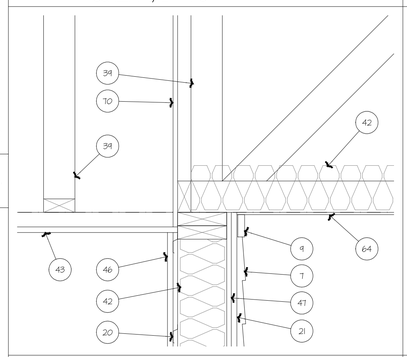

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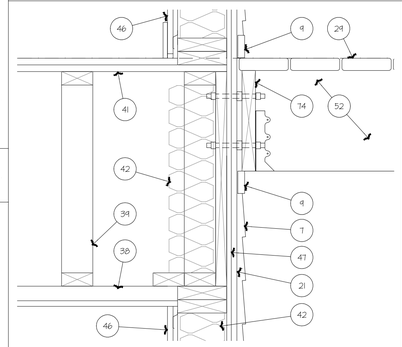

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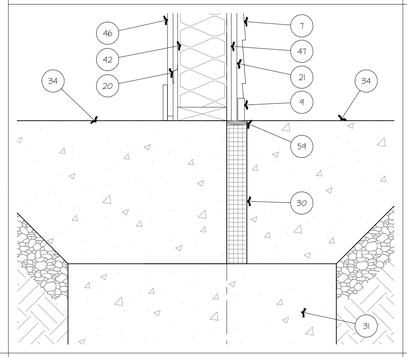

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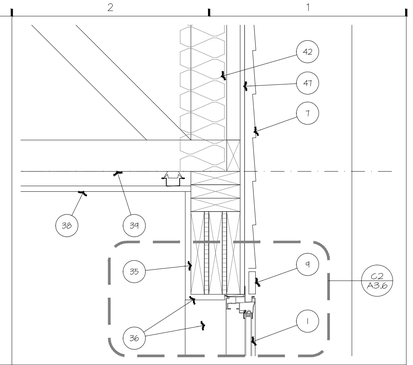

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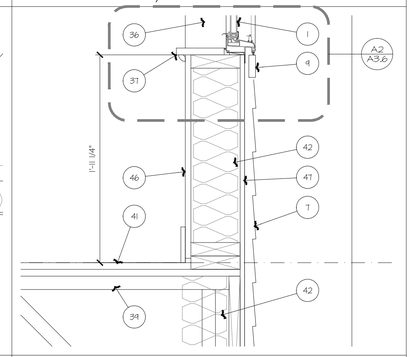

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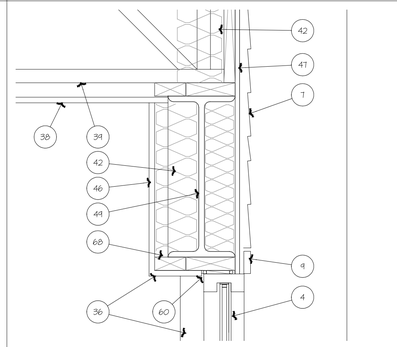

C2 DETAIL
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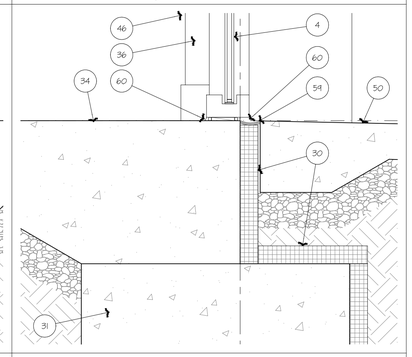

A2 DETAIL
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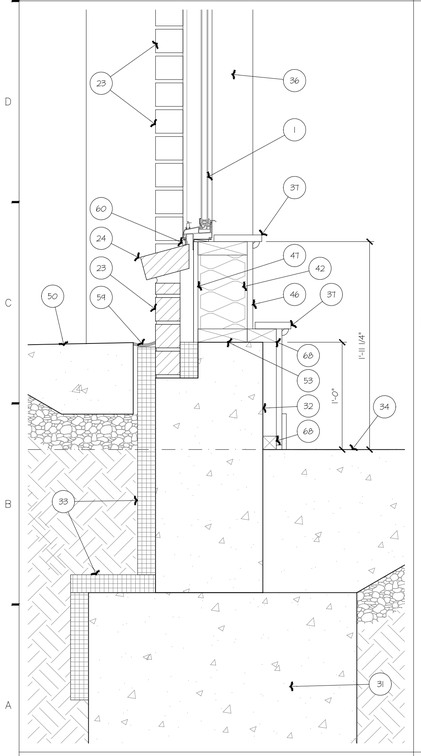
EDGE OF SLAB



A10 DETAIL
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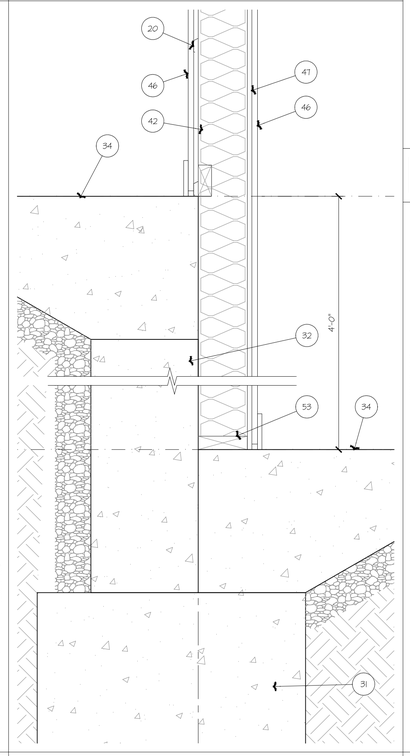

A8 DETAIL
SCALE: 1 1/2" = 1'-0"

KEY NOTES

1. VINYL WINDOW PER SCHEDULE. QUAKER ADVANTEDGE SERIES BASIS OF DESIGN. 085113
2. CEMENT FIBER VERTICAL SIDING PANEL W/ 2 1/2" CEMENT FIBER BORDER TRIM. SMOOTH PANEL & TRIM TEXTURE. INCLUDE HORIZONTAL Z-FLASHING AT ALL HORIZONTAL TRIM PER MANUFACTURER'S RECOMMENDATIONS. PAINT COLOR AS INDICATED. 074646
3. ALUMINUM STOREFRONT ENTRANCE. 084113
4. ALUMINUM STOREFRONT SYSTEM. KAWNEER TRIFAB 451UT BASIS OF DESIGN. 084113
5. BUILDING SIGNAGE W/ 12" TALL CLEAR ANODIZED CHANNEL LETTERS. FONT TO BE SELECTED BY OWNER. 101400
6. WALL MOUNTED ELECTRICAL EQUIPMENT. RE: ELECTRICAL
7. CEMENT FIBER BOARD LAP SIDING. 6" EXPOSURE. SMOOTH TEXTURE. PAINT COLOR AS INDICATED. 074646
8. CEMENT FIBER VERTICAL SIDING W/ BATTENS AT 16" O.C. SMOOTH PANEL & BATTEN TEXTURE. PAINT COLOR AS INDICATED. 074646
9. 2 1/2" CEMENT FIBER BOARD TRIM. TEXTURE & FINISH TO MATCH ADJACENT CEMENT FIBER BOARD SIDING UNLESS NOTED OTHERWISE (U.N.O.). 074646
10. SAME AS NOTE '9' EXCEPT 5 1/2" TRIM. 074646
11. GALVANIZED HSS METAL RAILING WITH 3" X 3" WELDED WIRE MESH PANELS. 055213
12. COMPOSITE WOOD FASCIA ATTACHED TO STAIR/ DECK FRAMING. COLOR & FINISH TO MATCH COMPOSITE DECKING. 061553
13. PREFINISHED METAL COPING W/ HEMMED EDGE. COLOR TO BE SELECTED FROM MANUFACTURER'S FULL RANGE. 077100
14. TREATED TIMBER COLUMN. STAIN TO MATCH COMPOSITE DECKING. RE: STRUCTURAL.
15. PRE-FINISHED BREAK METAL INFILL PANEL. 077100
16. FULL VIEW ALUMINUM & GLASS SECTIONAL DOOR. 083613
17. EXTERIOR HOLLOW METAL DOOR. PAINT. RE: DOOR SCHEDULE. 081113
18. STEEL & STAIR. TREATED WOOD CARRIAGES BOLTED TO MC CHANNEL STEEL STRINGERS. RE: STRUCTURAL. TREADS & LANDING DECKING TO BE 2X6 NOMINAL COMPOSITE WOOD PLANK. 061553
19. KYNAR 500 PREFINISHED 1 HOUR RATED EXTERIOR EXPANSION JOINT COVER MODEL ESW-400 AS MANUFACTURED BY CONSTRUCTION SPECIALTIES. COLOR AS SELECTED FROM MANUFACTURES STANDARD COLOR CHART.
20. 1/2" RC-1 RESILIENT CHANNEL.
21. 5/8" FIRE RATED FIBERGLASS-MAT FACED GYPSUM SHEATHING. 061600
22. NOT USED
23. FACE BRICK MASONRY VENEER. USE SOLID UNITS AT EXPOSED ENDS. 042113
24. BRICK ROWLOCK SILL. USE SOLID UNITS AT EXPOSED ENDS. 042113
25. BRICK ROWLOCK CAP. ALIGN TOP OF CAP W/ WINDOW HEAD OR WINDOW MEETING RAIL, AS SHOWN ON ELEVATIONS. USE SOLID UNITS AT EXPOSED ENDS. 042113
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54. MASONRY THRU WALL FLASHING W/ WEEPS AT 24" O.C. 042113
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75. 2 HOUR FIRE RATED AREA SEPARATION WALL PER WALL TYPE 'C'. RE: A0.2
76. CEMENT FIBER VERTICAL SIDING INSTALLED AT THE BACK OF PARAPET. PAINT. 074646
77. MIN. R-30 BATT INSULATION. 072100

SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS

1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI
TIMOTHY O.K. WILSON
NUMBER A-6972
REGISTERED ARCHITECT

DETAILS

ISSUE DATE:
02.04.2019

REVISIONS:

PROJECT NO.: 1817

A3.5

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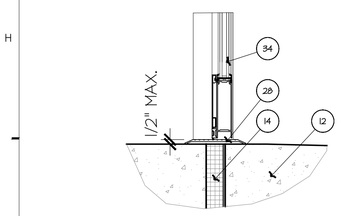
Feb 04,2019 10:15am



G10 SILL DETAIL
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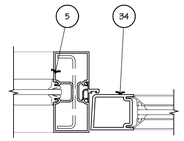
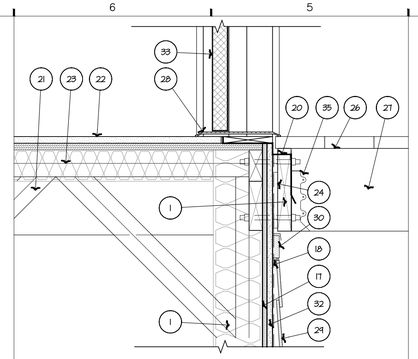


G8 JAMB DETAIL
HEAD SIMILIAR
SCALE: 3" = 1'-0"



G6 SILL DETAIL
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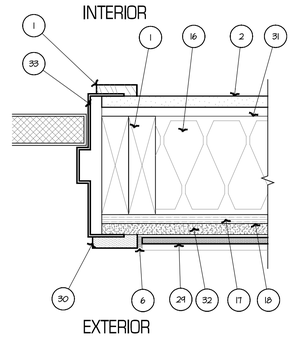
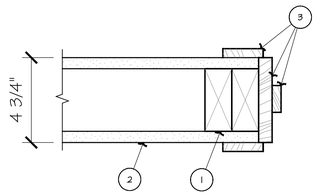
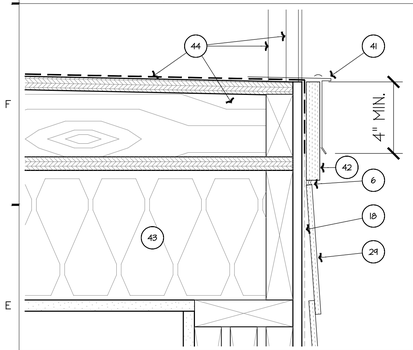


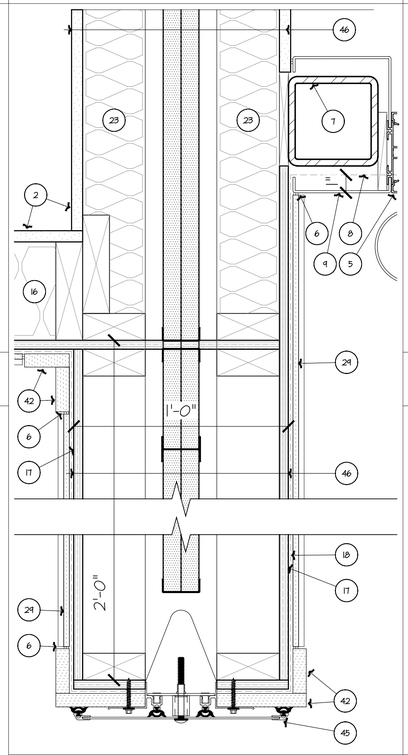
G4 JAMB DETAIL
HEAD SIMILIAR
SCALE: 1 1/2" = 1'-0"



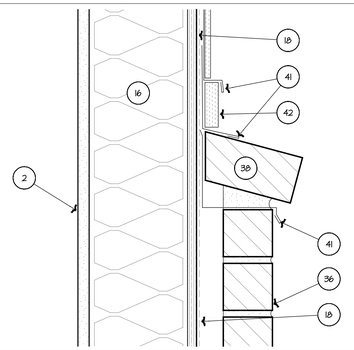
G2 JAMB DETAIL
HEAD SIMILIAR
SCALE: 3" = 1'-0"



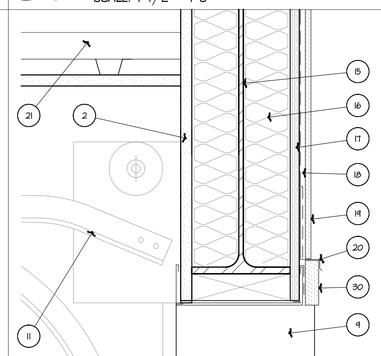
E10 ROOF EDGE DETAIL
SCALE: 3" = 1'-0"



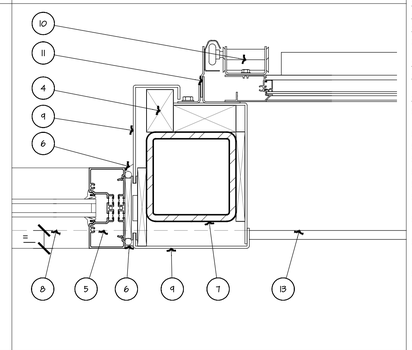
C8 AREA SEPARATION WALL DETAIL
SCALE: 3" = 1'-0"



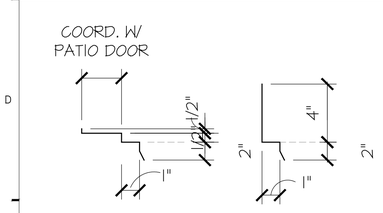
E6 MASONRY ROWLOCK CAP DETAIL
SCALE: 3" = 1'-0"



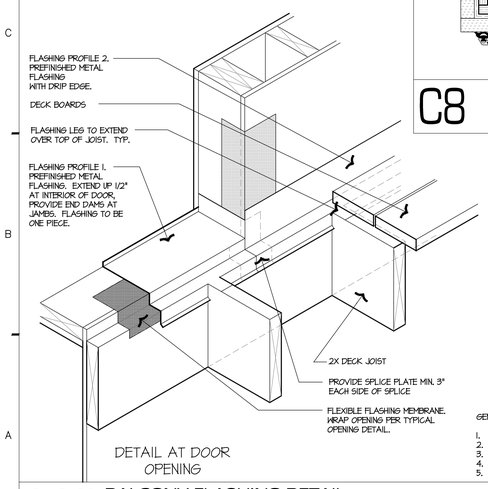
E4 HEAD DETAIL
SCALE: 3" = 1'-0"



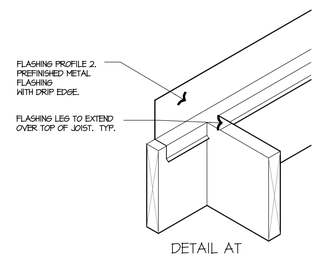
E2 JAMB DETAIL
SCALE: 3" = 1'-0"



FLASHING PROFILE 1 FLASHING PROFILE 2



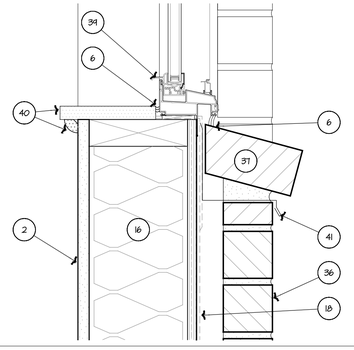
DETAIL AT DOOR OPENING



DETAIL AT EXTERIOR WALL

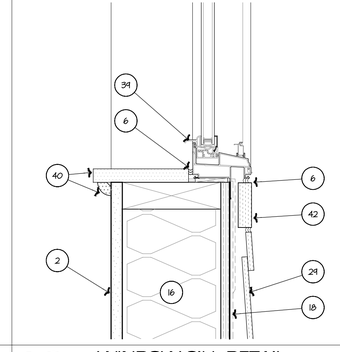
GENERAL NOTES:
1. FLASHING TO BE SET IN BED OF SEALANT.
2. FLASHING TO EXTEND FULL LENGTH OF BALCONY DECKING.
3. AIR/WEATHER BARRIER TO BE LAPPED OVER FLASHING AND TAPED.
4. FIELD VERIFY ALL DIMENSIONS.
5. ALL FLASHING TO BE COORDINATED WITH PATIO DOOR.

A10 BALCONY FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"



A6 MASONRY WINDOW SILL DETAIL
SCALE: 3" = 1'-0"

A4 NOT USED
SCALE: 3" = 1'-0"



A2 WINDOW SILL DETAIL
SCALE: 3" = 1'-0"

KEYNOTES

1. 2 X WOOD FRAMING PER WALL TYPE. PROVIDE DOUBLE STUDS AT JAMB, TYPICAL. RE: FLOOR PLANS FOR WALL TYPE INFORMATION.
2. 5/8" GYP. BD.
3. WOOD DOOR FRAME & CASING, PAINT.
4. TREATED WOOD BLOCKING.
5. ALUMINUM STOREFRONT SYSTEM. RE: BUILDING ELEVATIONS.
6. SEALANT CONTINUOUS.
7. STEEL TUBE COLUMN. RE: STRUCTURAL.
8. EDGE OF CONCRETE SLAB.
9. PREFINISHED SHEET METAL WRAP.
10. SECTIONAL DOOR, 083613.
11. SECTIONAL DOOR TRACK, 083613.
12. CONCRETE SLAB. RE: STRUCTURAL.
13. 1/4" EXPANSION MATERIAL. CAULK.
14. R-10 RIGID INSULATION AT EDGE OF SLAB PERIMETER INSULATION W/ 1/4" CONCRETE EXPANSION MATERIAL.
15. STEEL BEAM. RE: STRUCTURAL.
16. MIN. R-20 BATT INSULATION, 072100.
17. 7/16" OSB EXTERIOR WALL SHEATHING. RE: STRUCTURAL.
18. BUILDING WRAP. INSTALL W/ NAIL CAPS PER MANUFACTURER'S REQUIREMENTS. DO NOT INSTALL W/ STAPLES.
19. CEMENT FIBER BOARD VERTICAL SIDING PANEL W/ 2 1/2" CEMENT BOARD TRIM. SMOOTH PANEL & TRIM TEXTURE. RE: BUILDING ELEVATIONS. PAINT
20. PREFINISHED Z-FLASHING W/ DRIP EDGE.
21. PRE-ENGINEERED WOOD FLOOR TRUSS. RE: STRUCTURAL.
22. 3/4" GYPSUM FLOOR UNDERLAYMENT ON 3/4" TONGUE & GROOVE PLYWOOD. RE: STRUCTURAL. 035413.
23. 3 1/2" BATT INSULATION, 072100.
24. 1/2" NEOPRENE SPACER.
25. TREATED WOOD STRUCTURAL LEDGER. RE: STRUCTURAL.
26. COMPOSITE WOOD PLANK DECKING. WOOD GRAIN TEXTURE. 061333.
27. 2 X EXTERIOR TREATED WOOD JOIST. RE: STRUCTURAL.
28. ADA COMPLIANT ALUMINUM THRESHOLD SET IN A BEAD OF CAULK.
29. LAP SIDING. PAINT. RE: BUILDING ELEVATIONS.
30. 2 1/2" ENGINEERED TRIM. PAINT. RE: BUILDING ELEVATIONS.
31. 1/2" RESILIENT CHANNEL.
32. 5/8" DENS GLASS.
33. DOOR & FRAME PER DOOR SCHEDULE.
34. EXTERIOR ALUMINUM STOREFRONT DOOR.
35. JOIST HANGER. RE: STRUCTURAL.
36. FACE BRICK MASONRY VENEER. USE SOLID UNITS AT EXPOSED ENDS. 042113
37. BRICK ROWLOCK SILL. USE SOLID UNITS AT EXPOSED ENDS. 042113
38. RICK ROWLOCK CAP. ALIGN TOP OF CAP W/ WINDOW HEAD OR WINDOW MEETING RAIL AS SHOWN ON ELEVATIONS. USE SOLID UNITS AT EXPOSED ENDS. 042113
39. VINYL WINDOW PER SCHEDULE. QUAKER ADVANTEDGE SERIES BASIS OF DESIGN. 085313
40. 1 X EASED EDGE WOOD WINDOW STOOL & 3/4" QUARTER ROUND APRON. PAINT. 082023
41. PRE-FINISHED METAL FLASHING W/ HEMMED EDGE. PROVIDE DRIP EDGE WHERE REQUIRED. 077100
42. CEMENT FIBER TRIM, PAINT. 074646
43. MIN. R-30 BATT INSULATION. 072100
44. TPO SINGLE PLY ROOFING ON 3/4" WOOD DECKING ON RIPPED 2X8 WOOD ON 3/4" WOOD DECKING. RIP SLEEPERS AT MIN. 1:48 SLOPE TO DRAIN TO EXTERIOR. TURN TPO UP CORRIDOR WALLS A MINIMUM OF 8" & TERMINATE W/ TERMINATION BAR.
45. KYNAR 500 PREFINISHED 1 HOUR RATED EXTERIOR EXPANSION JOINT COVER MODEL ESH-400 AS MANUFACTURED BY CONSTRUCTION SPECIALTIES. COLOR AS SELECTED FROM MANUFACTURES STANDARD COLOR CHART.
46. 2 HOUR FIRE RATED AREA SEPARATION WALL PER WALL TYPE 'C.' RE: A0.2
47. GYPSUM BOARD (GYP BD) WINDOW HEAD & JAMB RETURN. PAINT.
48. HOT DIPPED GALVANIZED L5X3X5/16" LINTEL. 8" BEARING AT EACH END. MAXIMUM SPAN FOR LOOSE LINTEL IS 8'-8".

SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI
TIMOTHY O.K. WILSON
NUMBER A-6972
REGISTERED ARCHITECT

DETAILS

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A3.6

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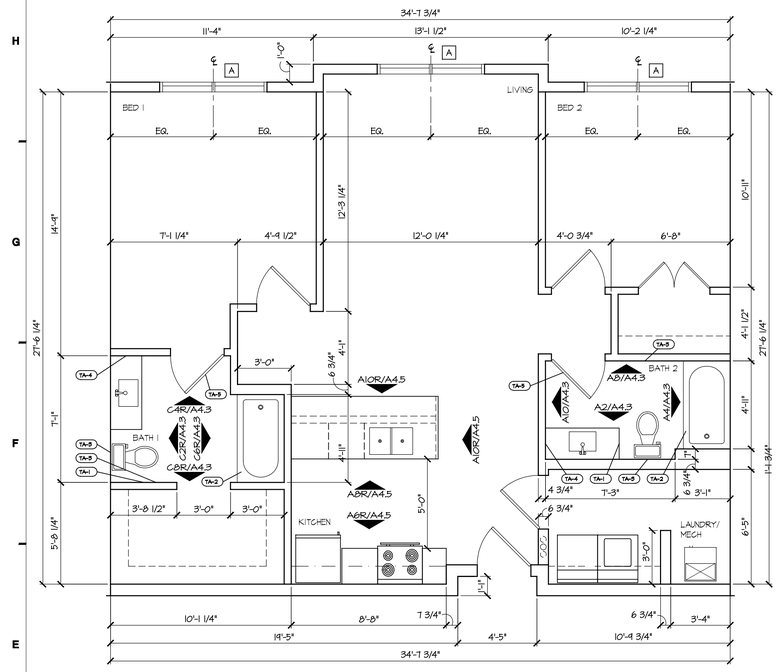
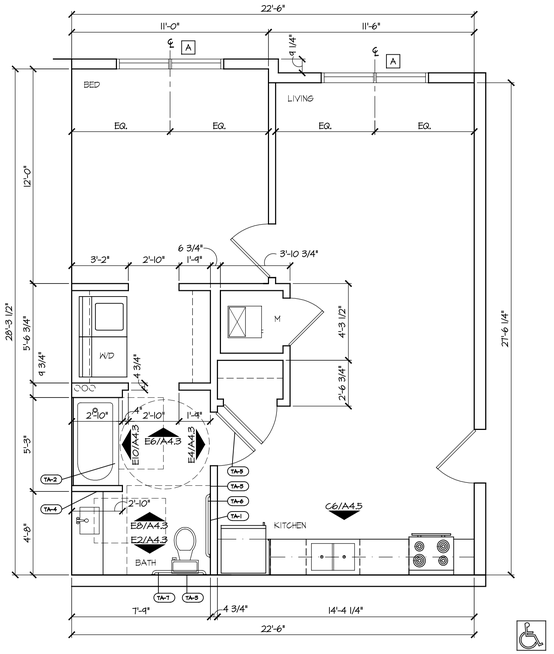
Feb 04,2019 10:21am



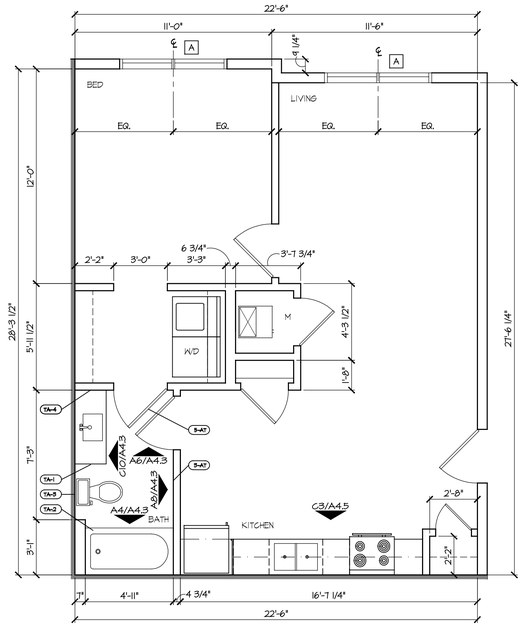
E10 ENLARGED UNIT PLAN (2 BED REV.)

SCALE: 1/4" = 1'-0"



E6 ENLARGED PLAN ACCESSIBLE 1 BED

SCALE: 1/4" = 1'-0"



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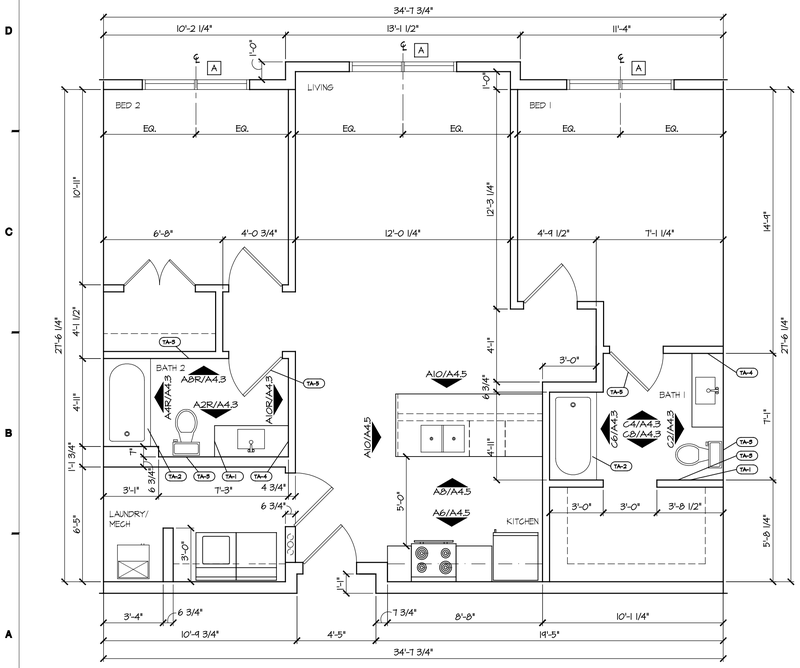

A10 ENLARGED UNIT PLAN (2 BED)

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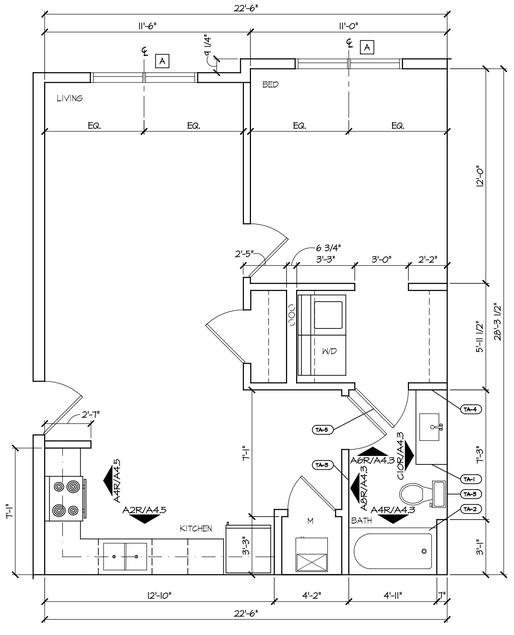

A6 ENLARGED UNIT PLAN (1 BED REV.)

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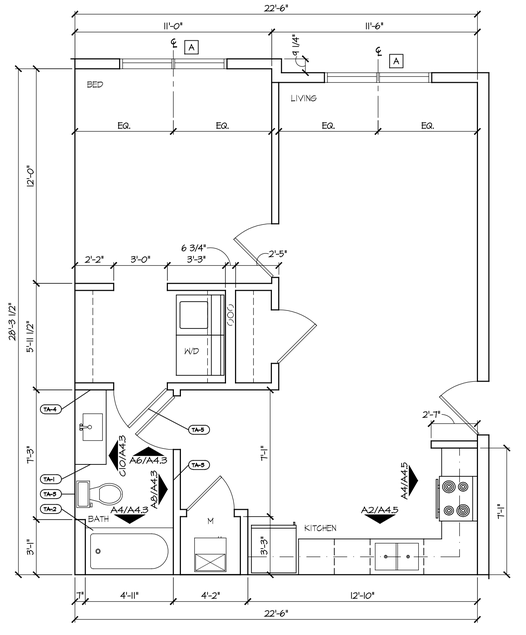

A3 ENLARGED UNIT PLAN (1 BED)

SCALE: 1/4" = 1'-0"

KEY NOTES

1. MIRROR, FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE. REFER TO SPEC. SECTION 088300.
2. WOOD CABINETS. RE: GENERAL NOTES.
3. INSTALL TUB/SHOWER AFTER FIRE RATED WALL GYPSUM BOARD IS INSTALLED. INSTALL ONE ADDITIONAL LAYER OF GYPSUM BOARD, FLUSH W/ ADJACENT WALL (ADJUST STUD DEPTH AS NEEDED), ON FIRE RATED WALL TO COVER SHOWER NAILING FINS. TYPICAL ALL SIMILAR LOCATIONS.
4. TOILET (A.D.A. COMPLIANT IF NOTED). RE: PLUMBING.
5. 1 PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR FUTURE GRAB BAR INSTALLATION, ICC ANSI A117.1-2009 COMPLIANT. RE: PLUMBING.
6. 1 PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR GRAB BAR INSTALLATION, ICC ANSI A117.1-2009 COMPLIANT. MANUFACTURER TO PROVIDE SHOWER W/ COMPLIANT GRAB BARS, SEAT, HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR, PRESSURE BALANCING MIXING VALVE, SOAP DISH AND CURTAIN ROD. RE: PLUMBING.
7. BASE PER FINISH SCHEDULE.
8. GYPSUM BOARD WALL CONSTRUCTION. PAINT.
9. CULTURED MARBLE COUNTERTOP W/ INTEGRAL SINK AND 4" BACKSPLASH & RETURN. COLOR SOLID WHITE.
10. DOOR PER SCHEDULE.
11. INSTALL FLOOR FINISH & BASE UNDER REMOVABLE BASE CABINET, PAINT WALLS & INSULATE ALL EXPOSED PIPING.
12. 2X WOOD BLOCKING CONTINUOUS, INDICATED BY HATCHED AREA, FOR SCHEDULED & FUTURE INSTALLATION OF GRAB BARS PER ICC/ANSI A117.1-2009. TYPICAL.
13. FILLER PIECE. MATCH CABINET STYLE.
14. ADA WALL MOUNTED SINK. RE: PLUMBING
15. INSULATE ALL EXPOSED PIPING.
16. ADA WATER FOUNTAIN. RE: PLUMBING.
17. MOP SINK WITH STAINLESS STEEL SPLASH GUARDS. RE: PLUMBING.
18. DISHWASHER END PANEL. MATCH CABINET STYLE.
19. BATHTUB / SHOWER VALVE CONTROL AREA. TYPICAL.
20. 1 1/2" THICK PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH & RETURN WHERE SHOWN. RE: SPEC. SECTION 123623.13.
21. CABINET END PANEL.
22. IN ACCESSIBLE KITCHENS, TOP OF ELECT. BOXES (SWITCHES TO CONTROL GARBAGE DISPOSAL, RANGE HOOD LIGHT, RANGE HOOD FAN, ETC.) & OUTLETS AT 9'-0" AFF. RE: ELEC. PLANS.
23. ELEC. DEVICE. RE: ELEC. PLANS FOR DEVICE TYPE.
24. 1/2" X 1" WOOD TRIM BELOW COUNTERTOP AT WALL JOINT. PAINT.
25. 1/2" X 2" WOOD TRIM UNDER COUNTER. PAINT.
26. INSTALL 2 1/2" RUBBER BASE ON ALL BATH FRONTS. COLOR WHITE.
27. ADA SHOWER CONTROL & HAND SHOWER. HAND SHOWER TO HAVE MIN 59" HOSE & ADJUSTABLE HEIGHT SHOWER HEAD MOUNTED ON A 30" VERTICAL BAR. RE: PLUMBING PLANS.
28. REMOVABLE BASE END SUPPORT TO BE ANGLED. SUPPORT TO COMPLY WITH SPACE REQUIREMENTS OF DETAIL E2/A4.4. FULL END SUPPORT PANEL NOT ALLOWED.
29. UNIVERSAL DESIGN FEATURE. CUSTOM PULL OUT WORK SURFACE KIT BY CABINET MANUFACTURER.

GENERAL NOTES

A. IN ALL UNIT BATHS, CONTRACTOR SHALL PROVIDE & INSTALL 1 HAND TOWEL RING (6" DIA.) 1 ROBE HOOK, 1 TOILET PAPER DISPENSER, SHOWER ROD, & 2 TOWEL BARS (24"). REFER TO SPEC. SECTION 102800.

B. CABINETRY SHALL BE BY ARMSTRONG, TIARA STYLE (RAISED PANEL MAPLE) MOCHA FINISH. PULLS BY AMEROCK CORP. PULL STYLE BP53985610. COORDINATE CABINETRY INSTALLATION AS REQUIRED PRIOR TO FABRICATION. CONSTRUCT WALLS W/ ROUGH OPENINGS AS NEEDED FOR SIZES OF CABINETRY INDICATED. INSTALL MATCHING WOOD SCRIBE AT ALL CABINET / WALL JOINTS. INSTALL MATCHING WOOD QUARTER ROUND BASE SHOE AT ALL TOEKICK & END PANEL / FINISH FLOOR JOINTS. TOEKICK TO MATCH CABINETRY FINISH. REFER TO SPEC. SECTION 123530.

C. COORDINATE CABINETRY WITH APPLIANCES FOR PROPER CLEARANCES, OPERATION, ETC.. RE: SPEC SECTION 113100 FOR APPLIANCE INFORMATION.

D. PRIOR TO FABRICATION OF CASEWORK, CONTRACTOR SHALL FIELD VERIFY ACTUAL FINISHED WALL DIMENSIONS.

E. PROVIDE FINISHED SURFACES ON CABINETS & COUNTERTOPS WHERE EXPOSED TO VIEW.

F. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS & CEILINGS IN BATHS.

G. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS A MIN. OF 12" BEYOND EXTENTS OF CABINETRY IN KITCHENS.

H. UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CABINETRY, ACCESSORIES, ETC..

I. ARCHITECT TO SELECT ALL COLORS, FINISHES, ETC..

J. CAULK ALL COUNTERTOP & BACKSPLASH / G.B. WALL JOINTS. SET SINKS IN A BED OF CAULK. CAULK TO BE CLEAR.

TOILET ACCESSORIES LEGEND

NOTE: CONTRACTOR SHALL INSTALL ALL REQUIRED 2X WOOD BLOCKING FOR A PROPER INSTALLATION OF TOILET ACCESSORIES. REFER TO 602/A4.3 FOR MOUNTING HEIGHTS. REFER TO SPEC. SECTION 102800 FOR ADDITIONAL INFORMATION.

TA-1	TOILET TISSUE DISPENSER
TA-2	CURVED SHOWER CURTIAN ROD
TA-3	24" TOWEL BAR
TA-4	HAND TOWEL RING
TA-5	ROBE HOOK
TA-6	42" GRAB BAR
TA-7	36" GRAB BAR
TA-8	TILT MIRROR - SURFACE MOUNT BOBRICK
TA-9	COMBINATION TRASH AND PAPER TOWEL DISPENSER
TA-10	SOAP DISPENSER
TA-11	18" VERTICAL GRAB BAR
TA-12	MOP AND BROOM HOLDER INSTALL AT JANITOR'S SINK
TA-13	24" GRAB BAR
TA-14	TOILET TISSUE DISPENSER SURFACE MOUNT BOBRICK B-2888
TA-15	SANITARY NAPKIN DISPOSAL SURFACE MOUNT BOBRICK B-270
	2X WOOD BLOCKING, REFER TO ELEVATIONS FOR LOCATIONS

APARTMENT UNIT TOILET ACCESSORIES BY MOEN, 'VALE' STYLE, BRUSHED NICKEL FINISH.

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS

1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI TIMOTHY O.K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

ENLARGED PLANS

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A4.1

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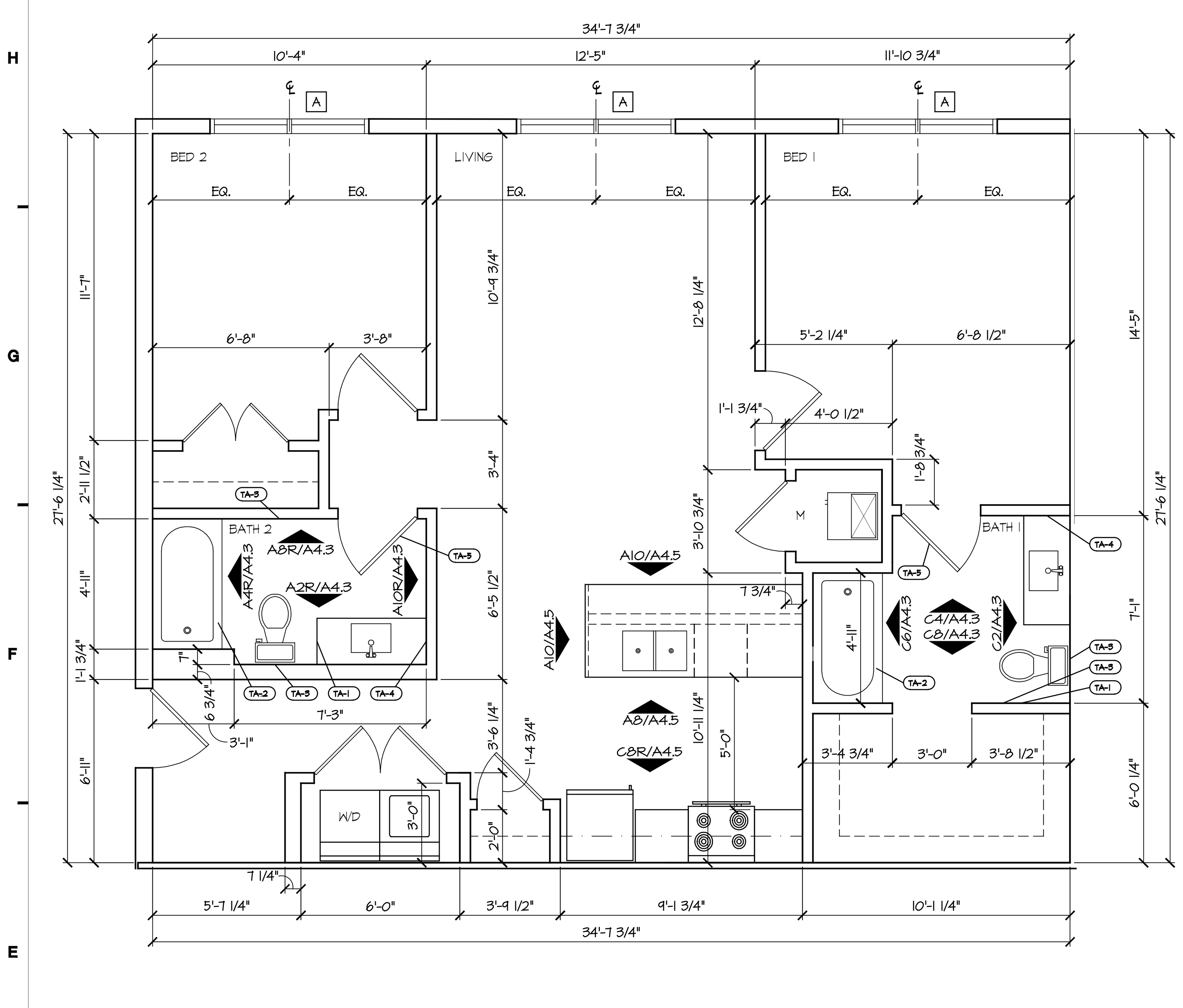
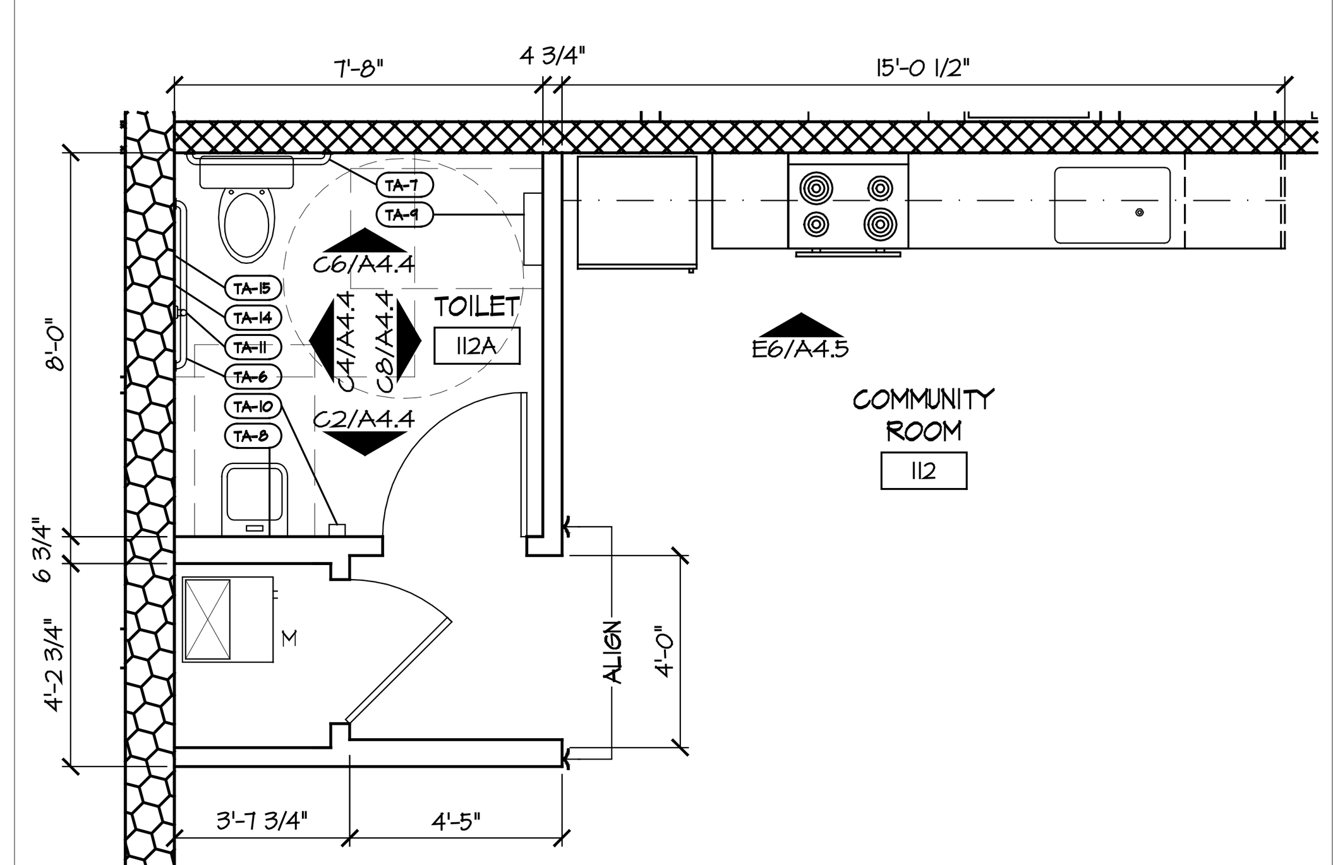


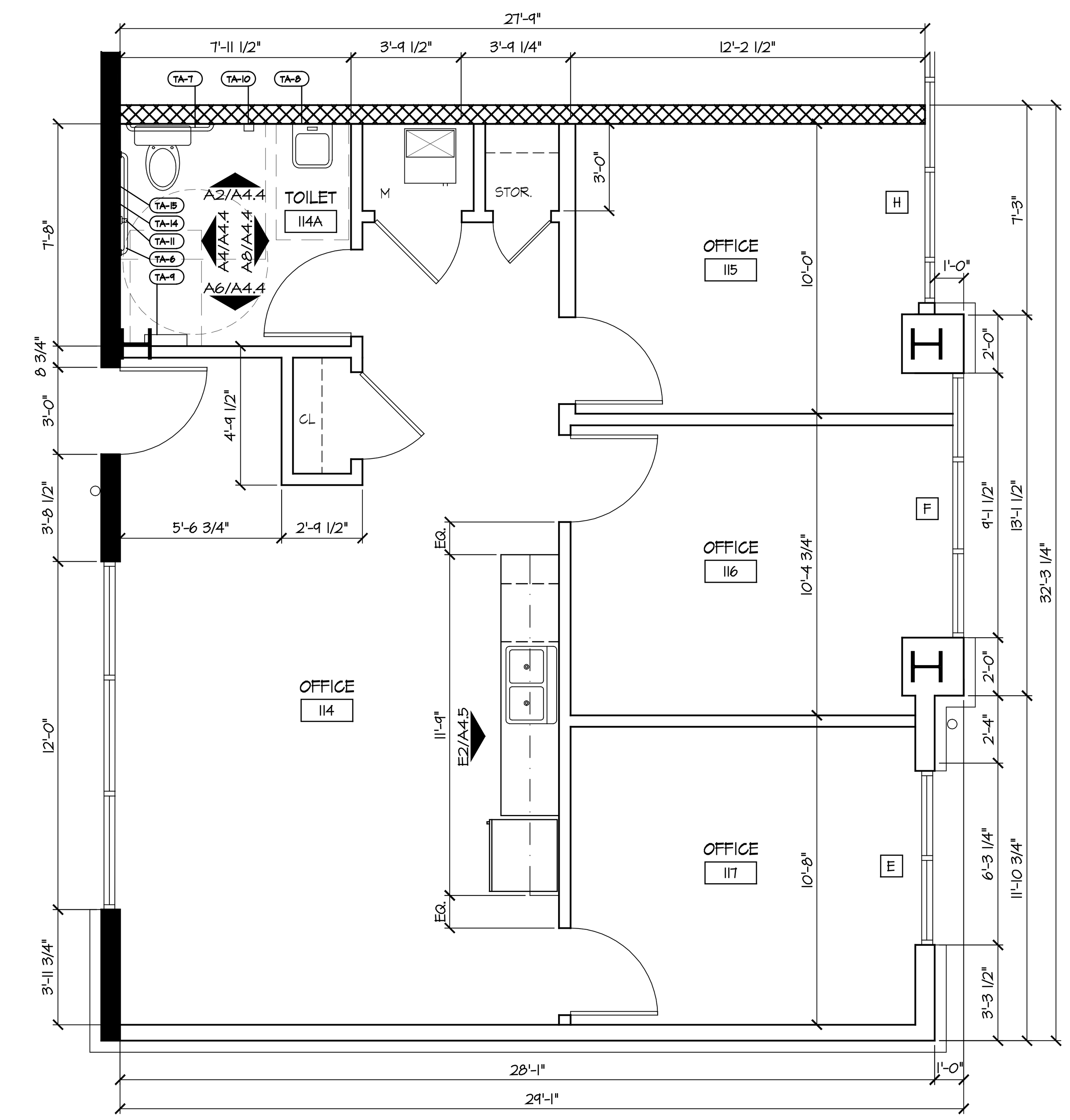
E10 ENLARGED UNIT PLAN (2 BED MOD. REV.)

SCALE: 1/4" = 1'-0"



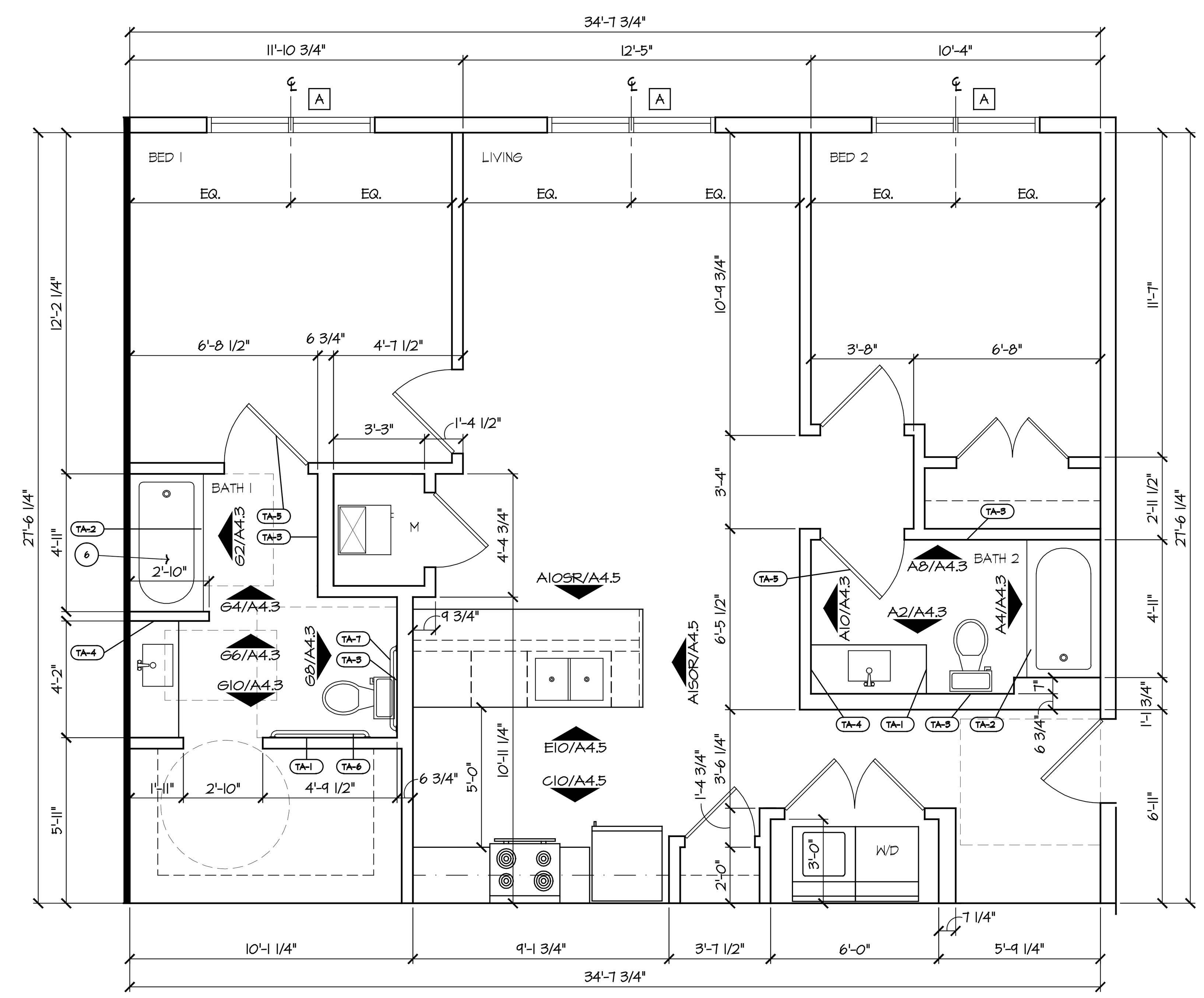
E6 PARTIAL ENLARGED COMMUNITY RM

SCALE: 1/4" = 1'-0"



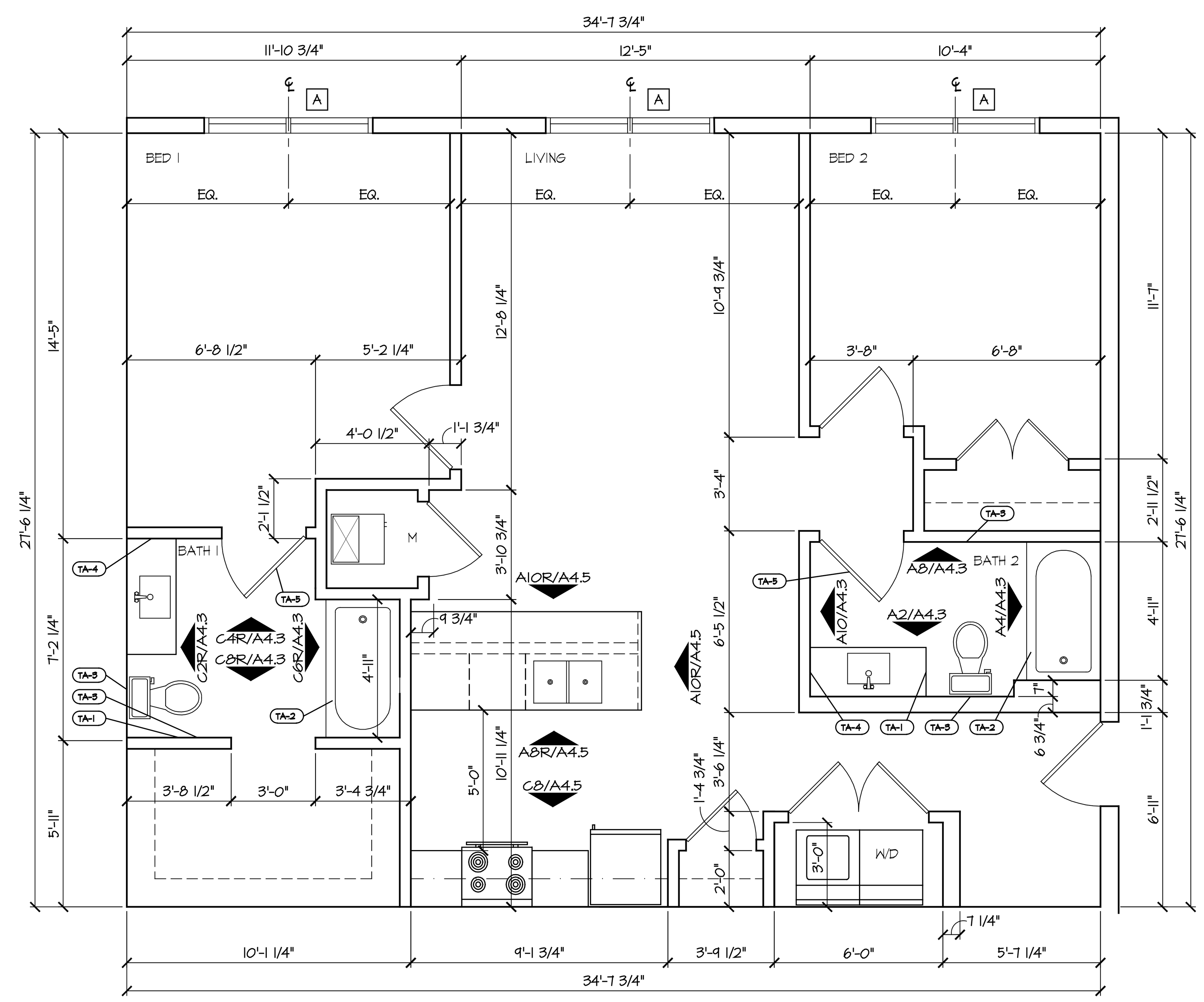
E4 ENLARGED OFFICE SUITE PLAN

SCALE: 1/4" = 1'-0"



A10 ENLARGED ACCESSIBLE 2 BED

SCALE: 1/4" = 1'-0"



A6 ENLARGED UNIT PLAN (2 BED MOD.)

SCALE: 1/4" = 1'-0"

KEY NOTES

1. MIRROR. FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE. REFER TO SPEC. SECTION 088300.
2. WOOD CABINETS. RE: GENERAL NOTES.
3. INSTALL TUB/SHOWER AFTER FIRE RATED WALL GYPSUM BOARD IS INSTALLED. INSTALL ONE ADDITIONAL LAYER OF GYPSUM BOARD, FLUSH W/ ADJACENT WALL (ADJUST STUD DEPTH AS NEEDED), ON FIRE RATED WALL TO COVER SHOWER NAILING FINS. TYPICAL ALL SIMILAR LOCATIONS.
4. TOILET (A.D.A. COMPLIANT IF NOTED). RE: PLUMBING.
5. 1 PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR FUTURE GRAB BAR INSTALLATION, ICC ANSI A117.1-2009 COMPLIANT. RE: PLUMBING.
6. 1 PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR GRAB BAR INSTALLATION, ICC ANSI A117.1-2009 COMPLIANT. MANUFACTURER TO PROVIDE SHOWER W/ COMPLIANT GRAB BARS, SEAT, HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR, PRESSURE BALANCING MIXING VALVE, SOAP DISH AND CURTAIN ROD. RE: PLUMBING.
7. BASE PER FINISH SCHEDULE.
8. GYPSUM BOARD WALL CONSTRUCTION. PAINT.
9. CULTURED MARBLE COUNTERTOP W/ INTEGRAL SINK AND 4" BACKSPLASH & RETURN. COLOR SOLID WHITE.
10. DOOR PER SCHEDULE.
11. INSTALL FLOOR FINISH & BASE UNDER REMOVABLE BASE CABINET, PAINT WALLS & INSULATE ALL EXPOSED PIPING.
12. 2X WOOD BLOCKING CONTINUOUS, INDICATED BY HATCHED AREA, FOR SCHEDULED & FUTURE INSTALLATION OF GRAB BARS PER ICC/ANSI A117.1-2009. TYPICAL.
13. FILLER PIECE. MATCH CABINET STYLE.
14. ADA WALL MOUNTED SINK. RE: PLUMBING
15. INSULATE ALL EXPOSED PIPING.
16. ADA WATER FOUNTAIN. RE: PLUMBING.
17. MOP SINK WITH STAINLESS STEEL SPLASH GUARDS. RE: PLUMBING.
18. DISHWASHER END PANEL. MATCH CABINET STYLE.
19. BATHTUB / SHOWER VALVE CONTROL AREA. TYPICAL.
20. 1 1/2" THICK PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH & RETURN WHERE SHOWN. RE: SPEC. SECTION 123623.13.
21. CABINET END PANEL.
22. IN ACCESSIBLE KITCHENS, TOP OF ELECT. BOXES (SWITCHES TO CONTROL GARBAGE DISPOSAL, RANGE HOOD LIGHT, RANGE HOOD FAN, ETC.) & OUTLETS AT 3'-8" AFF. RE: ELEC. PLANS.
23. ELEC. DEVICE. RE: ELEC. PLANS FOR DEVICE TYPE.
24. 1/2" X 1" WOOD TRIM BELOW COUNTERTOP AT WALL JOINT. PAINT.
25. 1/2" X 2" WOOD TRIM UNDER COUNTER. PAINT.
26. INSTALL 2 1/2" RUBBER BASE ON ALL BATH FRONTS. COLOR WHITE.
27. ADA SHOWER CONTROL & HAND SHOWER. HAND SHOWER TO HAVE MIN 59" HOSE & ADJUSTABLE HEIGHT SHOWER HEAD MOUNTED ON A 30" VERTICAL BAR. RE: PLUMBING PLANS.
28. REMOVABLE BASE END SUPPORT TO BE ANGLED SUPPORT TO COMPLY WITH SPACE REQUIREMENTS OF DETAIL E2/A4.4. FULL END SUPPORT PANEL NOT ALLOWED.
29. UNIVERSAL DESIGN FEATURE. CUSTOM PULL OUT WORK SURFACE KIT BY CABINET MANUFACTURER.

GENERAL NOTES

A. IN ALL UNIT BATHS, CONTRACTOR SHALL PROVIDE & INSTALL 1 HAND TOWEL RING (6" DIA), 1 ROBE HOOK, 1 TOILET PAPER DISPENSER, SHOWER ROD, & 2 TOWEL BARS (24"). REFER TO SPEC. SECTION 102800.
B. CABINETRY SHALL BE BY ARMSTRONG, TIARA STYLE (RAISED PANEL MAPLE), MOCHA FINISH. PULLS BY AMEROCK CORP., PULL STYLE BP52995G10. COORDINATE CABINETRY INSTALLATION AS REQUIRED PRIOR TO FABRICATION. CONSTRUCT WALLS W/ ROUGH OPENINGS AS NEEDED FOR SIZES OF CABINETRY INDICATED. INSTALL MATCHING WOOD SCRIBE AT ALL CABINET / WALL JOINTS. INSTALL MATCHING WOOD QUARTER ROUND BASE SHOE AT ALL TOEKICK & END PANEL / FINISH FLOOR JOINTS. TOEKICK TO MATCH CABINETRY FINISH. REFER TO SPEC. SECTION 123530.
C. COORDINATE CABINETRY WITH APPLIANCES FOR PROPOER CLEARANCES, OPERATION, ETC.. RE: SPEC SECTION 113100 FOR APPLIANCE INFORMATION.
D. PRIOR TO FABRICATION OF CASEWORK, CONTRACTOR SHALL FIELD VERIFY ACTUAL FINISHED WALL DIMENSIONS.
E. PROVIDE FINISHED SURFACES ON CABINETS & COUNTERTOPS WHERE EXPOSED TO VIEW.
F. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS & CEILINGS IN BATHS.
G. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS A MIN. OF 12" BEYOND EXTENTS OF CABINETRY IN KITCHENS.
H. UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CABINETRY, ACCESSORIES, ETC..
I. ARCHITECT TO SELECT ALL COLORS, FINISHES, ETC..
J. CAULK ALL COUNTERTOP & BACKSPLASH / G.B. WALL JOINTS. SET SINKS IN A BED OF CAULK. CAULK TO BE CLEAR.

TOILET ACCESSORIES LEGEND

NOTE: CONTRACTOR SHALL INSTALL ALL REQUIRED 2X WOOD BLOCKING FOR A PROPER INSTALLATION OF TOILET ACCESSORIES. REFER TO G2/A4.3 FOR MOUNTING HEIGHTS. REFER TO SPEC. SECTION 102800 FOR ADDITIONAL INFORMATION.

TA-1	TOILET TISSUE DISPENSER
TA-2	CURVED SHOWER CURTIAN ROD
TA-3	24" TOWEL BAR
TA-4	HAND TOWEL RING
TA-5	ROBE HOOK
TA-6	42" GRAB BAR
TA-7	36" GRAB BAR
TA-8	TILT MIRROR - SURFACE MOUNT BOBRICK
TA-9	COMBINATION TRASH AND PAPER TOWEL DISPENSER
TA-10	SOAP DISPENSER
TA-11	18" VERTICAL GRAB BAR
TA-12	MOP AND BROOM HOLDER INSTALL AT JANITOR'S SINK
TA-13	24" GRAB BAR
TA-14	TOILET TISSUE DISPENSER SURFACE MOUNT BOBRICK B-2888
TA-15	SANITARY NAPKIN DISPOSAL SURFACE MOUNT BOBRICK B-270
(hatched)	2X WOOD BLOCKING, REFER TO ELEVATIONS FOR LOCATIONS

APARTMENT UNIT TOILET ACCESSORIES BY MOEN, 'VALE' STYLE, BRUSHED NICKEL FINISH.

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS

1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 • KANSAS CITY, MO 64112 • T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972
STATE OF MISSOURI
TIMOTHY O. K. WILSON
NUMBER A-6972
REGISTERED ARCHITECT

ENLARGED PLANS

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A4.2

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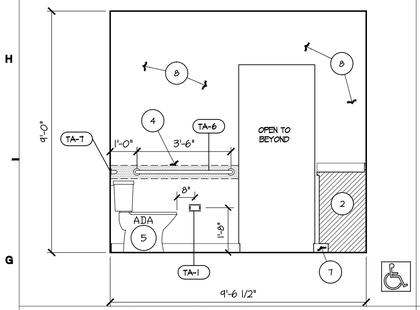
Feb 02,2019 11:27am



G10 ELEVATION @ ACCESSIBLE BATH
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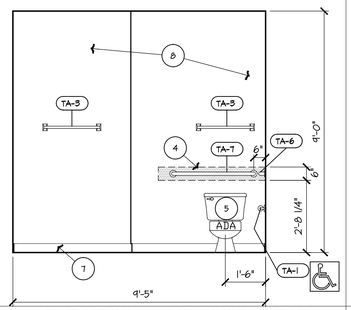

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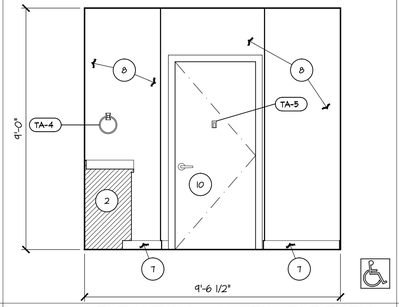

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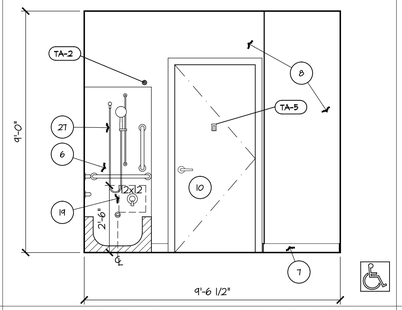

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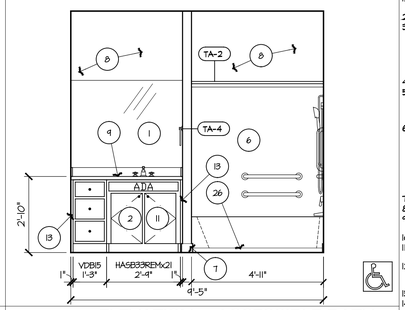

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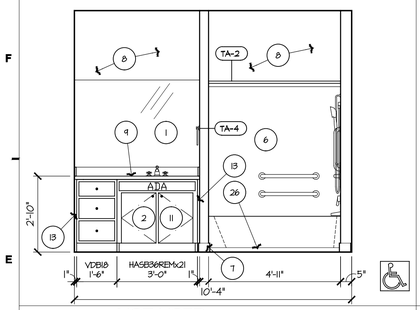

E10 NOT USED
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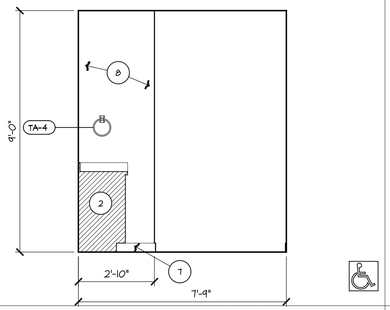

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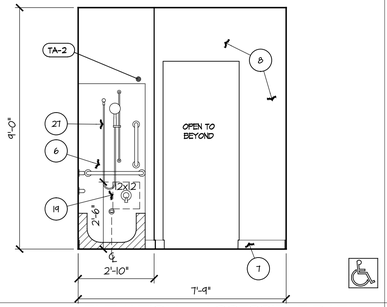

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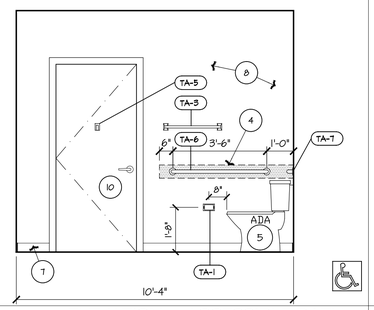

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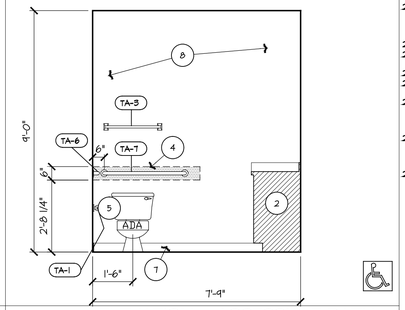

E2 ELEVATION @ ACCESSIBLE BATH
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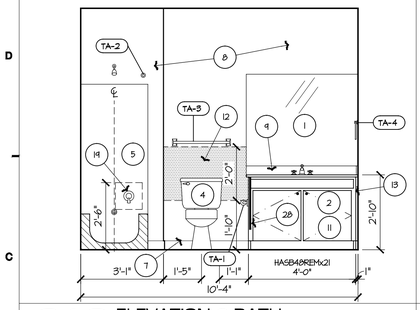

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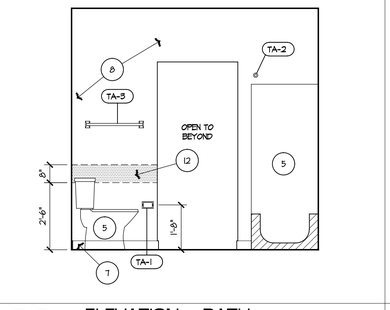

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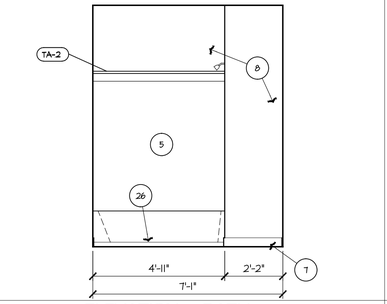

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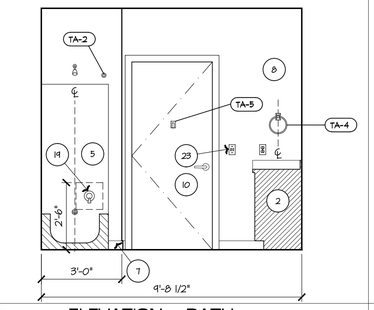

C4 ELEVATION @ BATH
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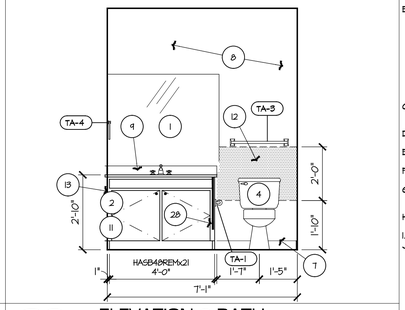

C2 ELEVATION @ BATH
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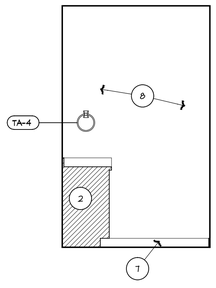

A10 ELEVATION @ BATH
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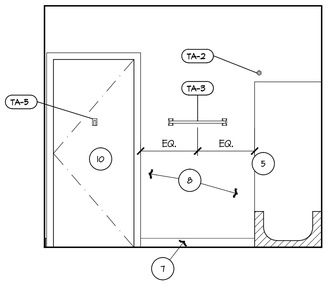

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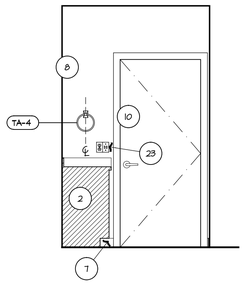

A6 ELEVATION @ BATH
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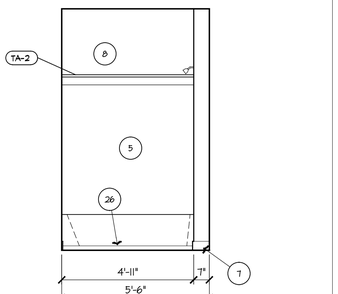

A4 ELEVATION @ BATH
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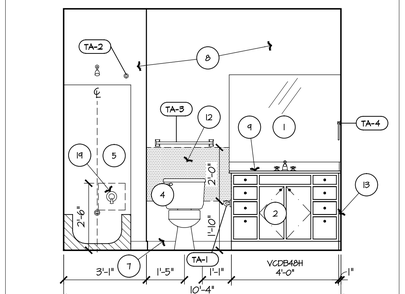

A2 ELEVATION @ BATH
SCALE: 3/8" = 1'-0"

KEY NOTES

1. MIRROR. FULL LENGTH OF VANITY. UNLESS NOTED OTHERWISE. REFER TO SPEC. SECTION 088300.
2. WOOD CABINETS. RE: GENERAL NOTES.
3. INSTALL TUB/SHOWER AFTER FIRE RATED WALL GYPSUM BOARD IS INSTALLED. INSTALL ONE ADDITIONAL LAYER OF GYPSUM BOARD, FLUSH W/ ADJACENT WALL (ADJUST STUD DEPTH AS NEEDED), ON FIRE RATED WALL TO COVER SHOWER NAILING FINS. TYPICAL ALL SIMILAR LOCATIONS.
4. TOILET (A.D.A. COMPLIANT IF NOTED). RE: PLUMBING.
5. 1 PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR FUTURE GRAB BAR INSTALLATION, ICC ANSI A117.1-2009 COMPLIANT. RE: PLUMBING.
6. 1 PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR GRAB BAR INSTALLATION, ICC ANSI A117.1-2009 COMPLIANT. MANUFACTURER TO PROVIDE SHOWER W/ COMPLIANT GRAB BARS, SEAT, HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR, PRESSURE BALANCING MIXING VALVE, SOAP DISH AND CURTAIN ROD. RE: PLUMBING.
7. BASE PER FINISH SCHEDULE.
8. GYPSUM BOARD WALL CONSTRUCTION. PAINT.
9. CULTURED MARBLE COUNTERTOP W/ INTEGRAL SINK AND 4" BACKSPLASH & RETURN. COLOR SOLID WHITE.
10. DOOR PER SCHEDULE.
11. INSTALL FLOOR FINISH & BASE UNDER REMOVABLE BASE CABINET. PAINT WALLS & INSULATE ALL EXPOSED PIPING.
12. 2X WOOD BLOCKING CONTINUOUS, INDICATED BY HATCHED AREA, FOR SCHEDULED & FUTURE INSTALLATION OF GRAB BARS PER ICC/ANSI A117.1-2009. TYPICAL.
13. FILLER PIECE. MATCH CABINET STYLE.
14. ADA WALL MOUNTED SINK. RE: PLUMBING
15. INSULATE ALL EXPOSED PIPING.
16. ADA WATER FOUNTAIN. RE: PLUMBING.
17. MOP SINK WITH STAINLESS STEEL SPLASH GUARDS. RE: PLUMBING.
18. DISHWASHER END PANEL. MATCH CABINET STYLE.
19. BATHTUB / SHOWER VALVE CONTROL AREA. TYPICAL.
20. 1 1/2" THICK PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH & RETURN WHERE SHOWN. RE: SPEC. SECTION 123623.13.
21. CABINET END PANEL.
22. IN ACCESSIBLE KITCHENS, TOP OF ELECT. BOXES (SWITCHES TO CONTROL GARBAGE DISPOSAL, RANGE HOOD LIGHT, RANGE HOOD FAN, ETC.) & OUTLETS AT 3'-8" AFF. RE: ELEC. PLANS.
23. ELEC. DEVICE. RE: ELEC. PLANS FOR DEVICE TYPE.
24. 1/2" X 1" WOOD TRIM BELOW COUNTERTOP AT WALL JOINT. PAINT.
25. 1/2" X 2" WOOD TRIM UNDER COUNTER. PAINT.
26. INSTALL 2 1/2" RUBBER BASE ON ALL BATH FRONTS. COLOR WHITE.
27. ADA SHOWER CONTROL & HAND SHOWER. HAND SHOWER TO HAVE MIN 54" HOSE & ADJUSTABLE HEIGHT SHOWER HEAD MOUNTED ON A 30" VERTICAL BAR. RE: PLUMBING PLANS.
28. REMOVABLE BASE END SUPPORT TO BE ANGLED SUPPORT TO COMPLY WITH SPACE REQUIREMENTS OF DETAIL E2/A4.4. FULL END SUPPORT PANEL NOT ALLOWED.
29. UNIVERSAL DESIGN FEATURE. CUSTOM FULL OUT WORK SURFACE KIT BY CABINET MANUFACTURER.

GENERAL NOTES

A. IN ALL UNIT BATHS, CONTRACTOR SHALL PROVIDE & INSTALL 1 HAND TOWEL RING (6" DIA.), 1 ROBE HOOK, 1 TOILET PAPER DISPENSER, SHOWER ROD, & 2 TOWEL BARS (24"). REFER TO SPEC. SECTION 102800.

B. CABINETRY SHALL BE BY ARMSTRONG, TIARA STYLE (RAISED PANEL MAPLE), MOCHA FINISH. PULLS BY AMEROCK CORP., PULL STYLE BP53095610. COORDINATE CABINETRY INSTALLATION AS REQUIRED PRIOR TO FABRICATION. CONSTRUCT WALLS W/ ROUGH OPENINGS AS NEEDED FOR SIZES OF CABINETRY INDICATED. INSTALL MATCHING WOOD SCRIBE AT ALL CABINET / WALL JOINTS. INSTALL MATCHING WOOD QUARTER ROUND BASE SHOE AT ALL TOEKICK & END PANEL / FINISH FLOOR JOINTS. TOEKICK TO MATCH CABINETRY FINISH. REFER TO SPEC. SECTION 123530.

C. COORDINATE CABINETRY WITH APPLIANCES FOR PROPER CLEARANCES, OPERATION, ETC. RE: SPEC SECTION 115100 FOR APPLIANCE INFORMATION.

D. PRIOR TO FABRICATION OF CASEWORK, CONTRACTOR SHALL FIELD VERIFY ACTUAL FINISHED WALL DIMENSIONS.

E. PROVIDE FINISHED SURFACES ON CABINETS & COUNTERTOPS WHERE EXPOSED TO VIEW.

F. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS & CEILINGS IN BATHS.

G. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS A MIN. OF 12" BEYOND EXTENTS OF CABINETRY IN KITCHENS.

H. UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CABINETRY, ACCESSORIES, ETC..

I. ARCHITECT TO SELECT ALL COLORS, FINISHES, ETC..

J. CAULK ALL COUNTERTOP & BACKSPLASH / G.B. WALL JOINTS. SET SINKS IN A BED OF CAULK. CAULK TO BE CLEAR.

TOILET ACCESSORIES LEGEND

NOTE: CONTRACTOR SHALL INSTALL ALL REQUIRED 2X WOOD BLOCKING FOR A PROPER INSTALLATION OF TOILET ACCESSORIES. REFER TO 62/A4.3 FOR MOUNTING HEIGHTS. REFER TO SPEC. SECTION 102800 FOR ADDITIONAL INFORMATION.

TA-1	TOILET TISSUE DISPENSER
TA-2	CURVED SHOWER CURTIAN ROD
TA-3	24" TOWEL BAR
TA-4	HAND TOWEL RING
TA-5	ROBE HOOK
TA-6	42" GRAB BAR
TA-7	36" GRAB BAR
TA-8	TILT MIRROR - SURFACE MOUNT BOBRICK
TA-9	COMBINATION TRASH AND PAPER TOWEL DISPENSER
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TA-13	24" GRAB BAR
TA-14	TOILET TISSUE DISPENSER SURFACE MOUNT BOBRICK B-2888
TA-15	SANITARY NAPKIN DISPOSAL SURFACE MOUNT BOBRICK B-270
	2X WOOD BLOCKING, REFER TO ELEVATIONS FOR LOCATIONS

APARTMENT UNIT TOILET ACCESSORIES BY MOEN, 'VALE' STYLE, BRUSHED NICKEL FINISH.

SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
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SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

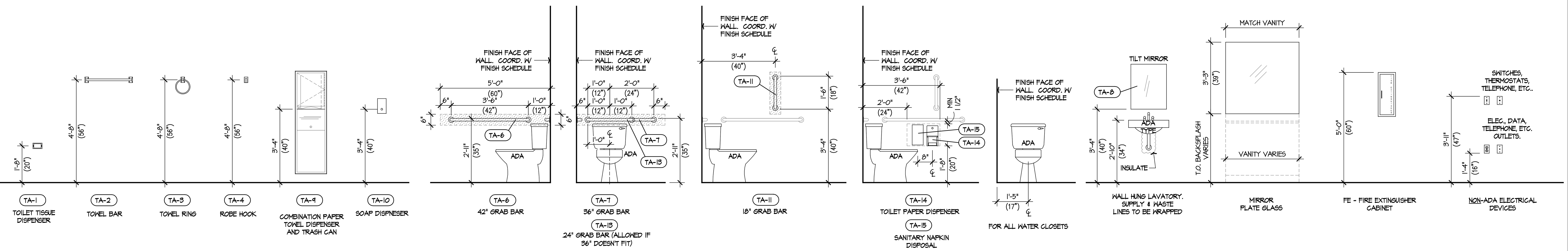
STATE OF MISSOURI
TIMOTHY O.K. WILSON
NUMBER A-6972
REGISTERED ARCHITECT

INTERIOR ELEVATIONS

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A4.3



G6 TYPICAL MOUNTING HGT. LEGEND
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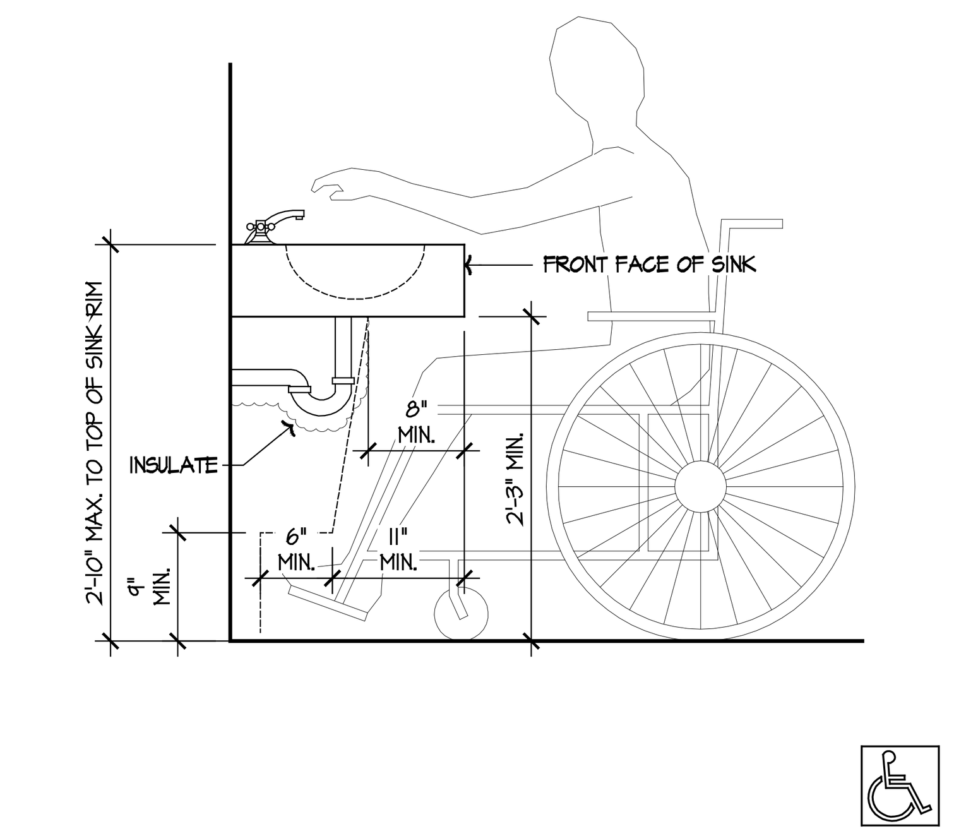


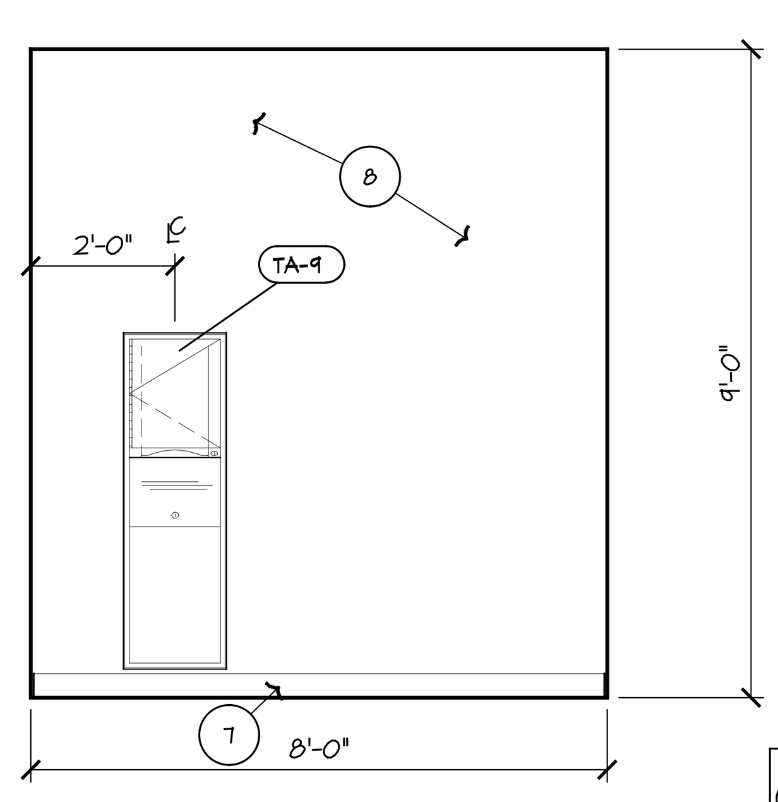
E10 NOT USED
SCALE: 3/8" = 1'-0"

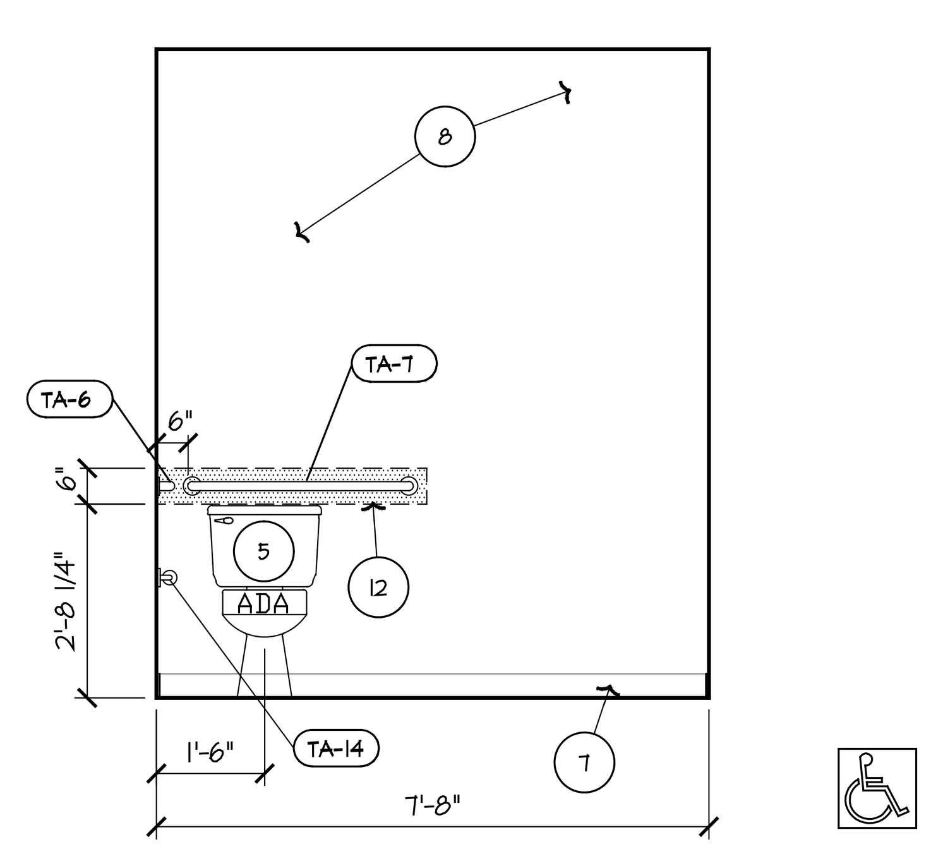
E8 NOT USED
SCALE: 3/8" = 1'-0"

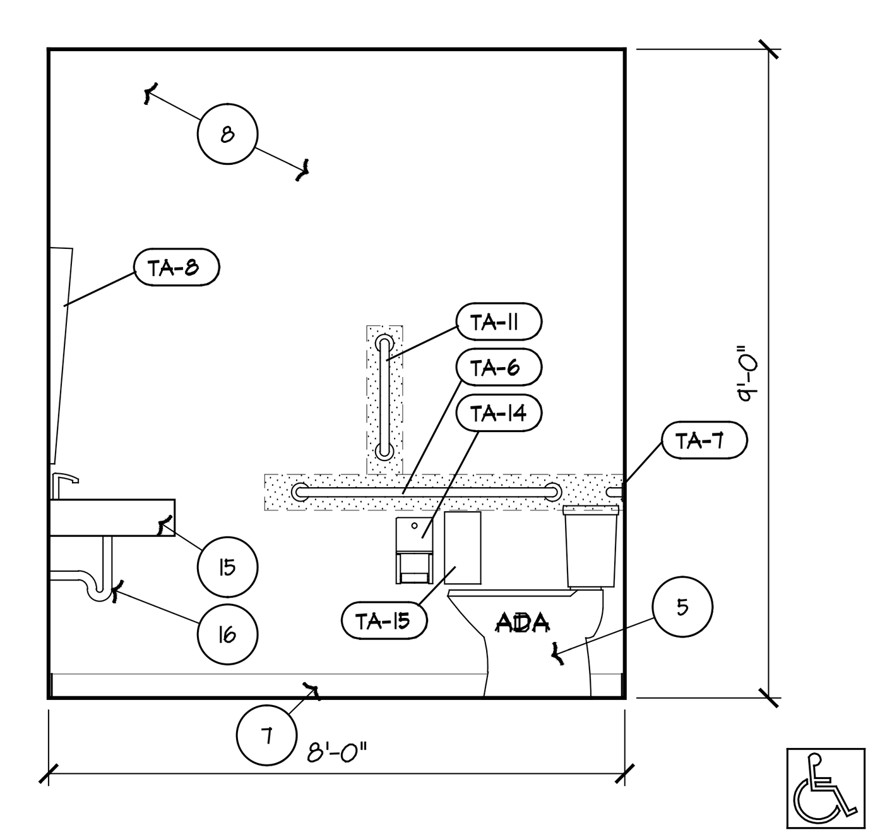
E6 NOT USED
SCALE: 3/8" = 1'-0"

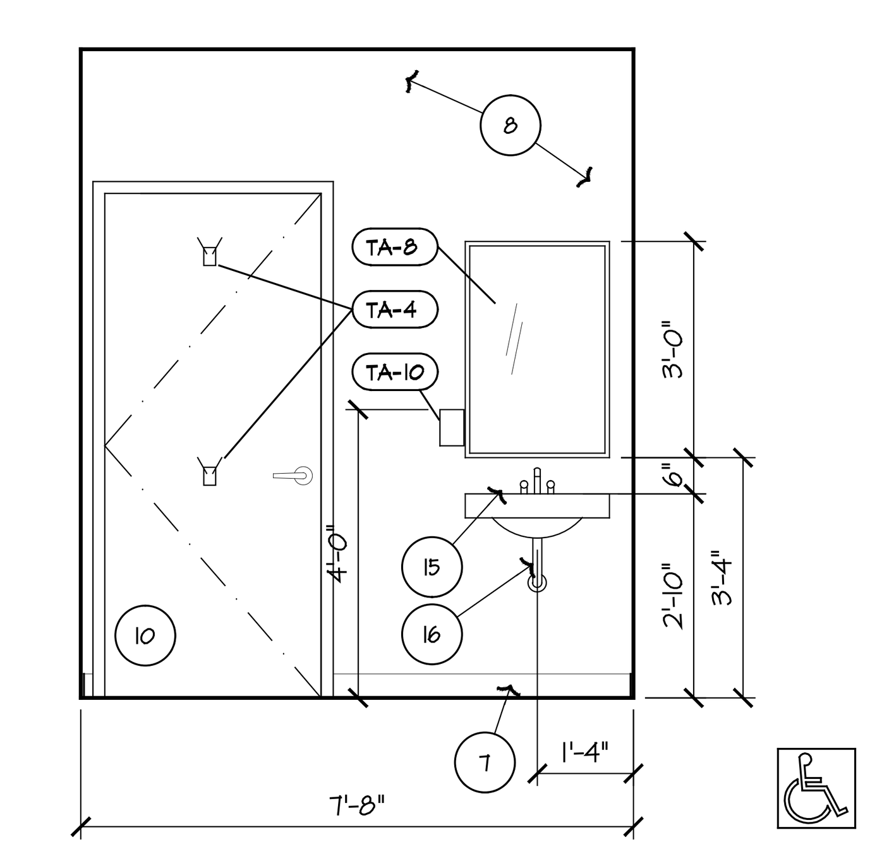
E4 NOT USED
SCALE: 3/8" = 1'-0"

E2 COMPLIANT CLEARANCES
SCALE: NO SCALE









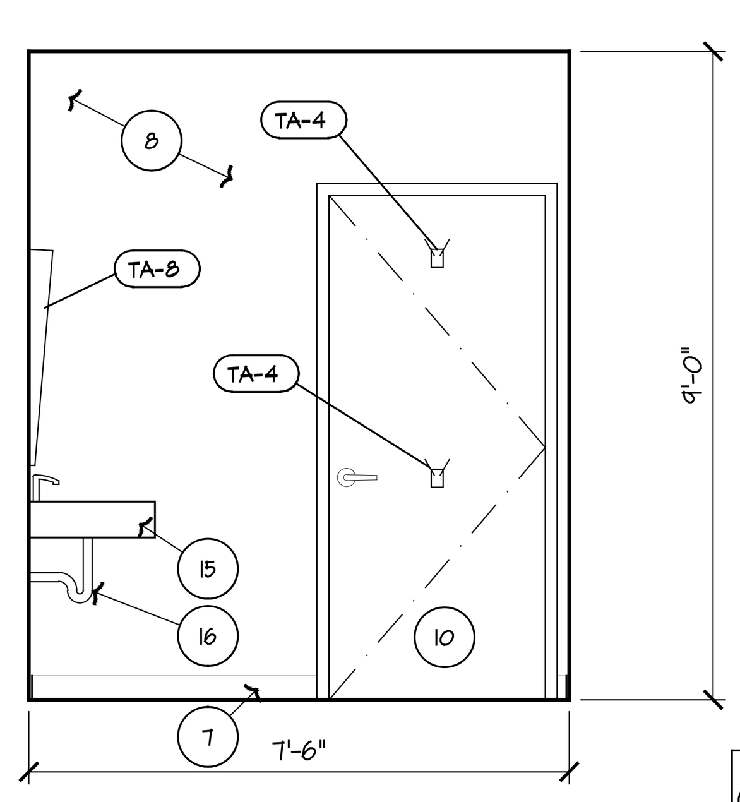
C10 NOT USED
SCALE: 3/8" = 1'-0"

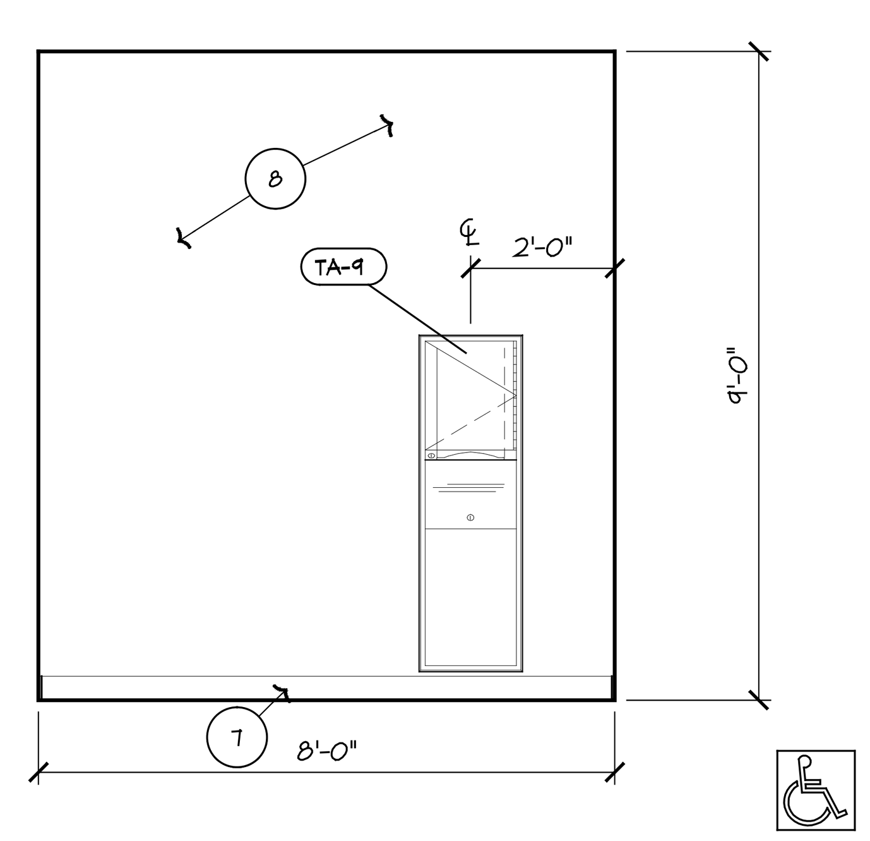
C8 ELEVATION @ RESTROOM
SCALE: 3/8" = 1'-0"

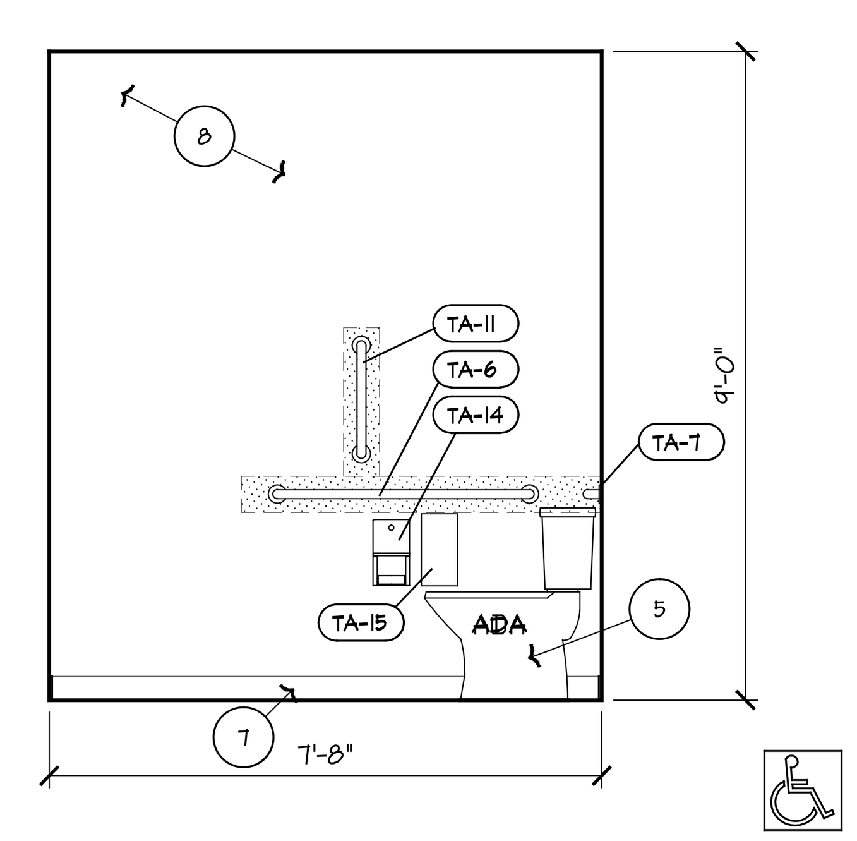
C6 ELEVATION @ RESTROOM
SCALE: 3/8" = 1'-0"

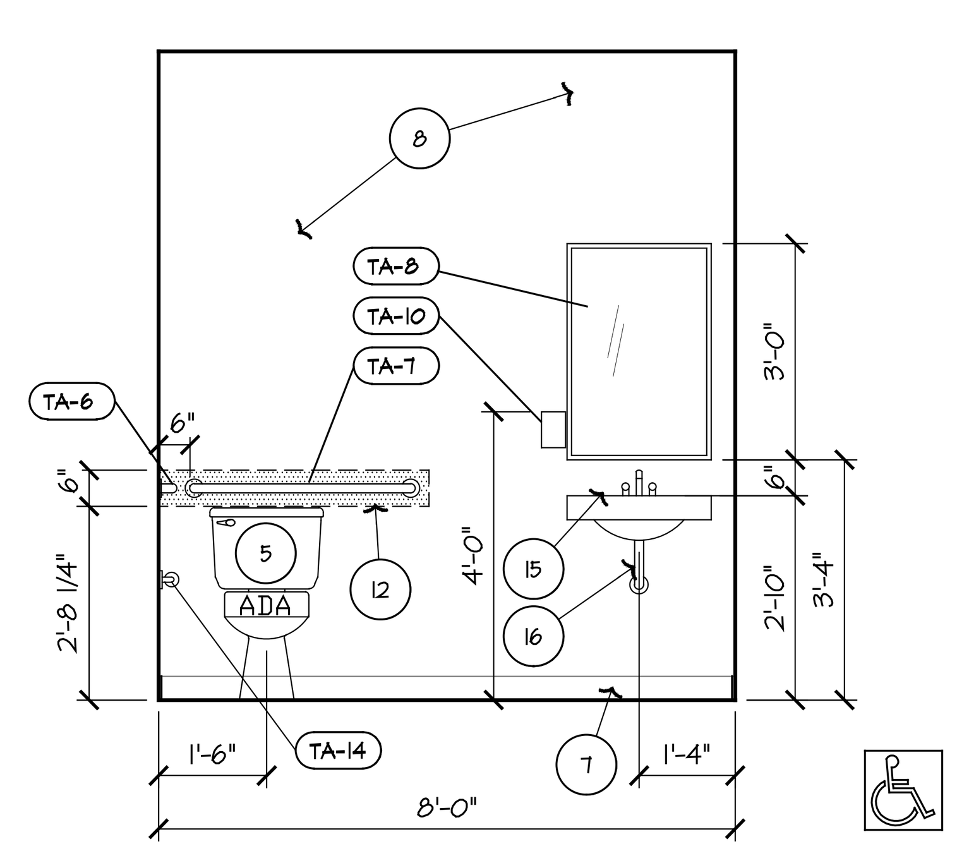
C4 ELEVATION @ RESTROOM
SCALE: 3/8" = 1'-0"

C2 ELEVATION @ RESTROOM
SCALE: 3/8" = 1'-0"









A10 NOT USED
SCALE: 3/8" = 1'-0"

A8 ELEVATION @ RESTROOM
SCALE: 3/8" = 1'-0"

A6 ELEVATION @ RESTROOM
SCALE: 3/8" = 1'-0"

A4 ELEVATION @ RESTROOM
SCALE: 3/8" = 1'-0"

A2 ELEVATION @ RESTROOM
SCALE: 3/8" = 1'-0"

KEY NOTES

1. MIRROR. FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE. REFER TO SPEC. SECTION 088300.
2. WOOD CABINETS. RE: GENERAL NOTES.
3. INSTALL TUB/SHOWER AFTER FIRE RATED WALL GYPSUM BOARD IS INSTALLED. INSTALL ONE ADDITIONAL LAYER OF GYPSUM BOARD, FLUSH W/ ADJACENT WALL (ADJUST STUD DEPTH AS NEEDED), ON FIRE RATED WALL TO COVER SHOWER NAILING FINS. TYPICAL ALL SIMILAR LOCATIONS.
4. TOILET (A.D.A. COMPLIANT IF NOTED). RE: PLUMBING.
5. 1 PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR FUTURE GRAB BAR INSTALLATION, ICC ANSI A117.1-2009 COMPLIANT. RE: PLUMBING.
6. 1 PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR GRAB BAR INSTALLATION, ICC ANSI A117.1-2009 COMPLIANT. MANUFACTURER TO PROVIDE SHOWER W/ COMPLIANT GRAB BARS, SEAT, HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR, PRESSURE BALANCING MIXING VALVE, SOAP DISH AND CURTAIN ROD. RE: PLUMBING.
7. BASE PER FINISH SCHEDULE.
8. GYPSUM BOARD WALL CONSTRUCTION. PAINT.
9. CULTURED MARBLE COUNTERTOP W/ INTEGRAL SINK AND 4" BACKSPLASH & RETURN. COLOR SOLID WHITE.
10. DOOR PER SCHEDULE.
11. INSTALL FLOOR FINISH & BASE UNDER REMOVABLE BASE CABINET, PAINT WALLS & INSULATE ALL EXPOSED PIPING.
12. 2X WOOD BLOCKING CONTINUOUS, INDICATED BY HATCHED AREA, FOR SCHEDULED & FUTURE INSTALLATION OF GRAB BARS PER ICC/ANSI A117.1-2009. TYPICAL.
13. FILLER PIECE. MATCH CABINET STYLE.
14. ADA WALL MOUNTED SINK. RE: PLUMBING
15. INSULATE ALL EXPOSED PIPING.
16. ADA WATER FOUNTAIN. RE: PLUMBING.
17. MOP SINK WITH STAINLESS STEEL SPLASH GUARDS. RE: PLUMBING.
18. DISHWASHER END PANEL. MATCH CABINET STYLE.
19. BATHTUB / SHOWER VALVE CONTROL AREA. TYPICAL.
20. 1 1/2" THICK PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH & RETURN WHERE SHOWN. RE: SPEC. SECTION 123623.13.
21. CABINET END PANEL.
22. IN ACCESSIBLE KITCHENS, TOP OF ELECT. BOXES (SWITCHES TO CONTROL GARBAGE DISPOSAL, RANGE HOOD LIGHT, RANGE HOOD FAN, ETC.) & OUTLETS AT 3'-8" AFF. RE: ELEC. PLANS.
23. ELEC. DEVICE. RE: ELEC. PLANS FOR DEVICE TYPE.
24. 1/2" X 1" WOOD TRIM BELOW COUNTERTOP AT WALL JOINT. PAINT.
25. 1/2" X 2" WOOD TRIM UNDER COUNTER. PAINT.
26. INSTALL 2 1/2" RUBBER BASE ON ALL BATH FRONTS. COLOR WHITE.
27. ADA SHOWER CONTROL & HAND SHOWER. HAND SHOWER TO HAVE MIN 59" HOSE & ADJUSTABLE HEIGHT SHOWER HEAD MOUNTED ON A 30" VERTICAL BAR. RE: PLUMBING PLANS.
28. REMOVABLE BASE END SUPPORT TO BE ANGLED SUPPORT TO COMPLY WITH SPACE REQUIREMENTS OF DETAIL E2/A4.4. FULL END SUPPORT PANEL NOT ALLOWED.
29. UNIVERSAL DESIGN FEATURE. CUSTOM PULL OUT WORK SURFACE KIT BY CABINET MANUFACTURER.

GENERAL NOTES

A. IN ALL UNIT BATHS, CONTRACTOR SHALL PROVIDE & INSTALL 1 HAND TOWEL RING (6" DIA), 1 ROBE HOOK, 1 TOILET PAPER DISPENSER, SHOWER ROD, & 2 TOWEL BARS (24"). REFER TO SPEC. SECTION 102800.
B. CABINETRY SHALL BE BY ARMSTRONG, TIARA STYLE (RAISED PANEL MAPLE), MOCHA FINISH. PULLS BY AMEROCK CORP., PULL STYLE BP52995G10. COORDINATE CABINETRY INSTALLATION AS REQUIRED PRIOR TO FABRICATION. CONSTRUCT WALLS W/ ROUGH OPENINGS AS NEEDED FOR SIZES OF CABINETRY INDICATED. INSTALL MATCHING WOOD SCRIBE AT ALL CABINET / WALL JOINTS. INSTALL MATCHING WOOD QUARTER ROUND BASE SHOE AT ALL TOEKICK & END PANEL / FINISH FLOOR JOINTS. TOEKICK TO MATCH CABINETRY FINISH. REFER TO SPEC. SECTION 123530.
C. COORDINATE CABINETRY WITH APPLIANCES FOR PROPOER CLEARANCES, OPERATION, ETC.. RE: SPEC SECTION 113100 FOR APPLIANCE INFORMATION.
D. PRIOR TO FABRICATION OF CASEWORK, CONTRACTOR SHALL FIELD VERIFY ACTUAL FINISHED WALL DIMENSIONS.
E. PROVIDE FINISHED SURFACES ON CABINETS & COUNTERTOPS WHERE EXPOSED TO VIEW.
F. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS & CEILINGS IN BATHS.
G. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS A MIN. OF 12" BEYOND EXTENTS OF CABINETRY IN KITCHENS.
H. UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CABINETRY, ACCESSORIES, ETC..
I. ARCHITECT TO SELECT ALL COLORS, FINISHES, ETC..
J. CAULK ALL COUNTERTOP & BACKSPLASH / G.B. WALL JOINTS. SET SINKS IN A BED OF CAULK. CAULK TO BE CLEAR.

TOILET ACCESSORIES LEGEND

NOTE: CONTRACTOR SHALL INSTALL ALL REQUIRED 2X WOOD BLOCKING FOR A PROPER INSTALLATION OF TOILET ACCESSORIES. REFER TO G2/A4.3 FOR MOUNTING HEIGHTS. REFER TO SPEC. SECTION 102800 FOR ADDITIONAL INFORMATION.

TA-1	TOILET TISSUE DISPENSER
TA-2	CURVED SHOWER CURTIAN ROD
TA-3	24" TOWEL BAR
TA-4	HAND TOWEL RING
TA-5	ROBE HOOK
TA-6	42" GRAB BAR
TA-7	36" GRAB BAR
TA-8	TILT MIRROR - SURFACE MOUNT BOBRICK
TA-9	COMBINATION TRASH AND PAPER TOWEL DISPENSER
TA-10	SOAP DISPENSER
TA-11	18" VERTICAL GRAB BAR
TA-12	MOP AND BROOM HOLDER INSTALL AT JANITOR'S SINK
TA-13	24" GRAB BAR
TA-14	TOILET TISSUE DISPENSER SURFACE MOUNT BOBRICK B-2888
TA-15	SANITARY NAPKIN DISPOSAL SURFACE MOUNT BOBRICK B-270
(hatched)	2X WOOD BLOCKING, REFER TO ELEVATIONS FOR LOCATIONS

APARTMENT UNIT TOILET ACCESSORIES BY MOEN, 'VALE' STYLE, BRUSHED NICKEL FINISH.

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI
TIMOTHY O. K. WILSON
NUMBER A-6972
REGISTERED ARCHITECT

INTERIOR ELEVATIONS

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A4.4

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Feb 02,2019 11:22am

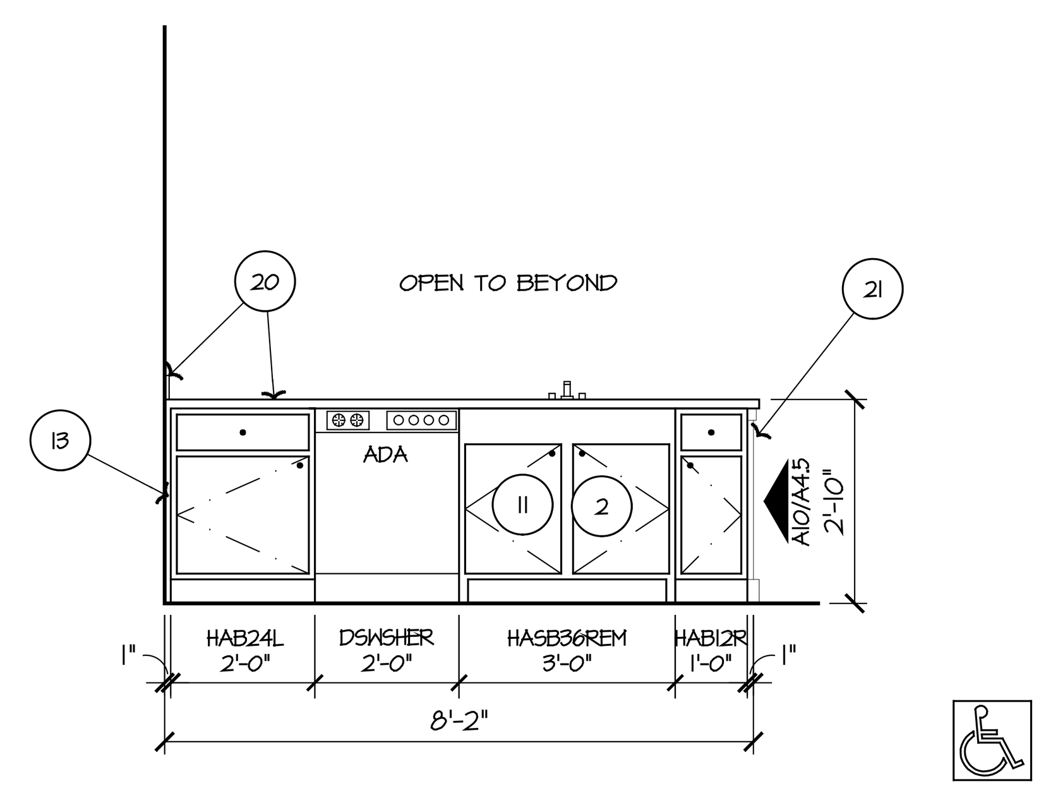
G10 NOT USED
SCALE: 3/8" = 1'-0"

G8 NOT USED
SCALE: 3/8" = 1'-0"

G6 NOT USED
SCALE: 3/8" = 1'-0"

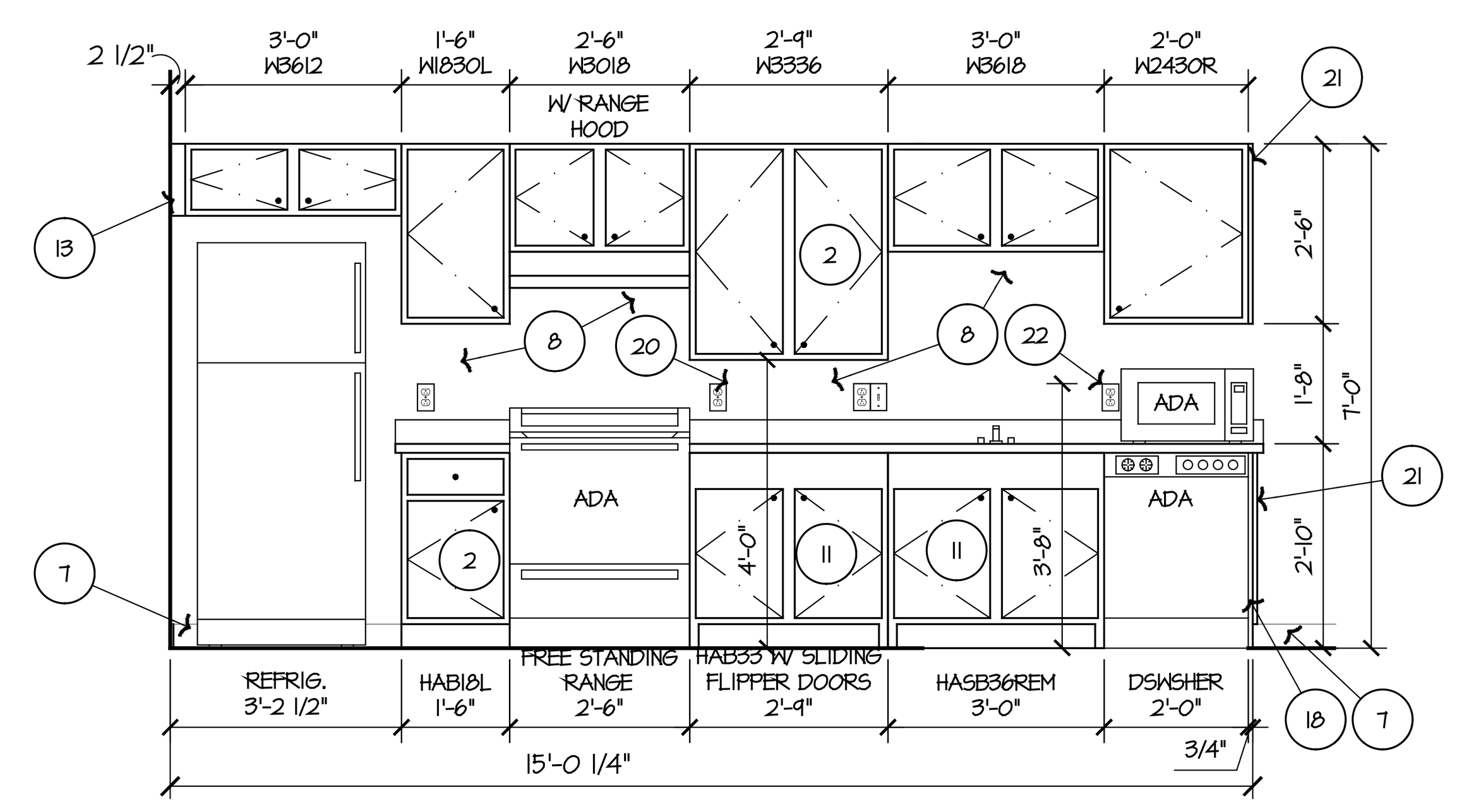
G4 NOT USED
SCALE: 3/8" = 1'-0"

G2 NOT USED
SCALE: 3/8" = 1'-0"



E10 ELEVATION @ ACCESSIBLE KITCHEN
SCALE: 3/8" = 1'-0"

E8 NOT USED
SCALE: 3/8" = 1'-0"



E6 ELEVATION @ COMMUNITY RM KITCHEN
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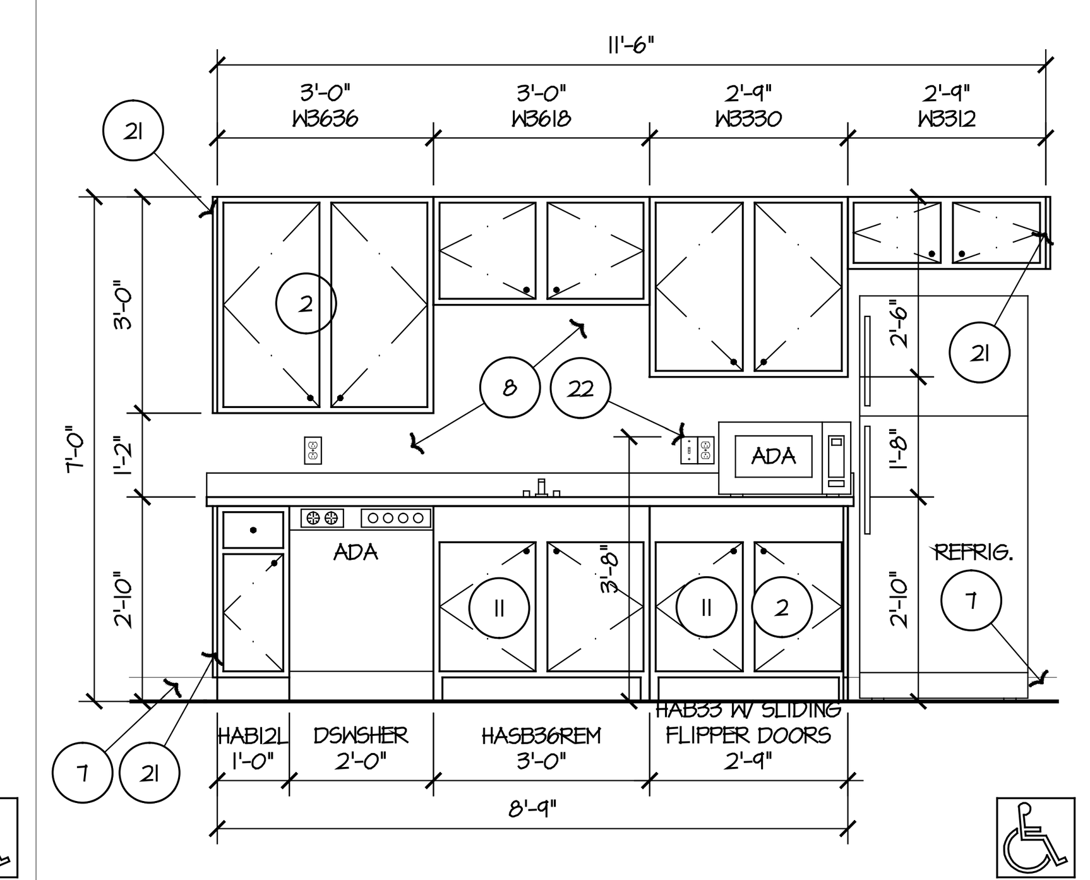
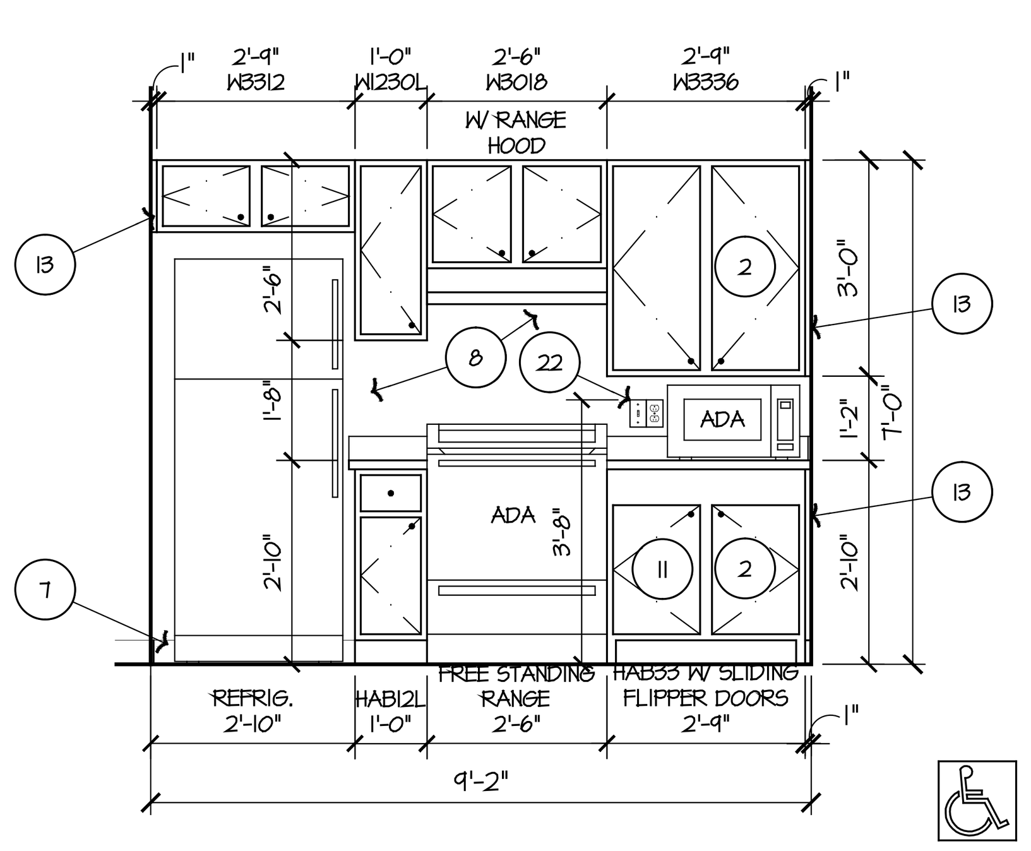
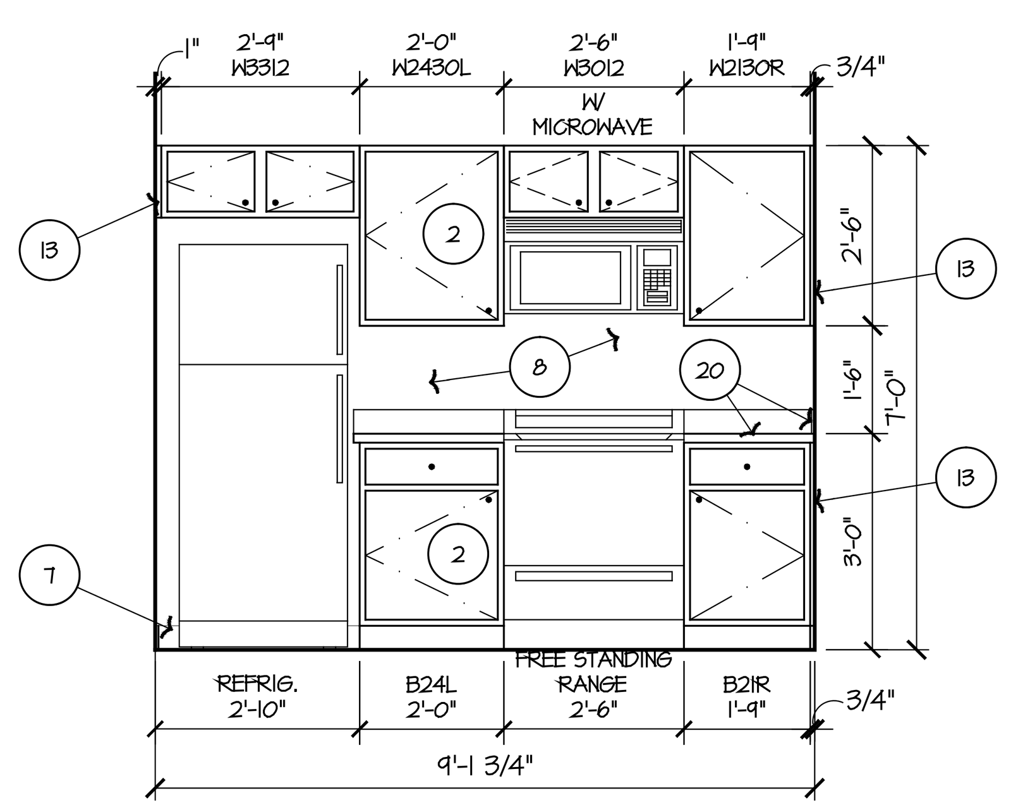


E2 ELEVATION @ OFFICE KITCHEN
SCALE: 3/8" = 1'-0"



C10 ELEVATION @ ACCESSIBLE KITCHEN
SCALE: 3/8" = 1'-0"



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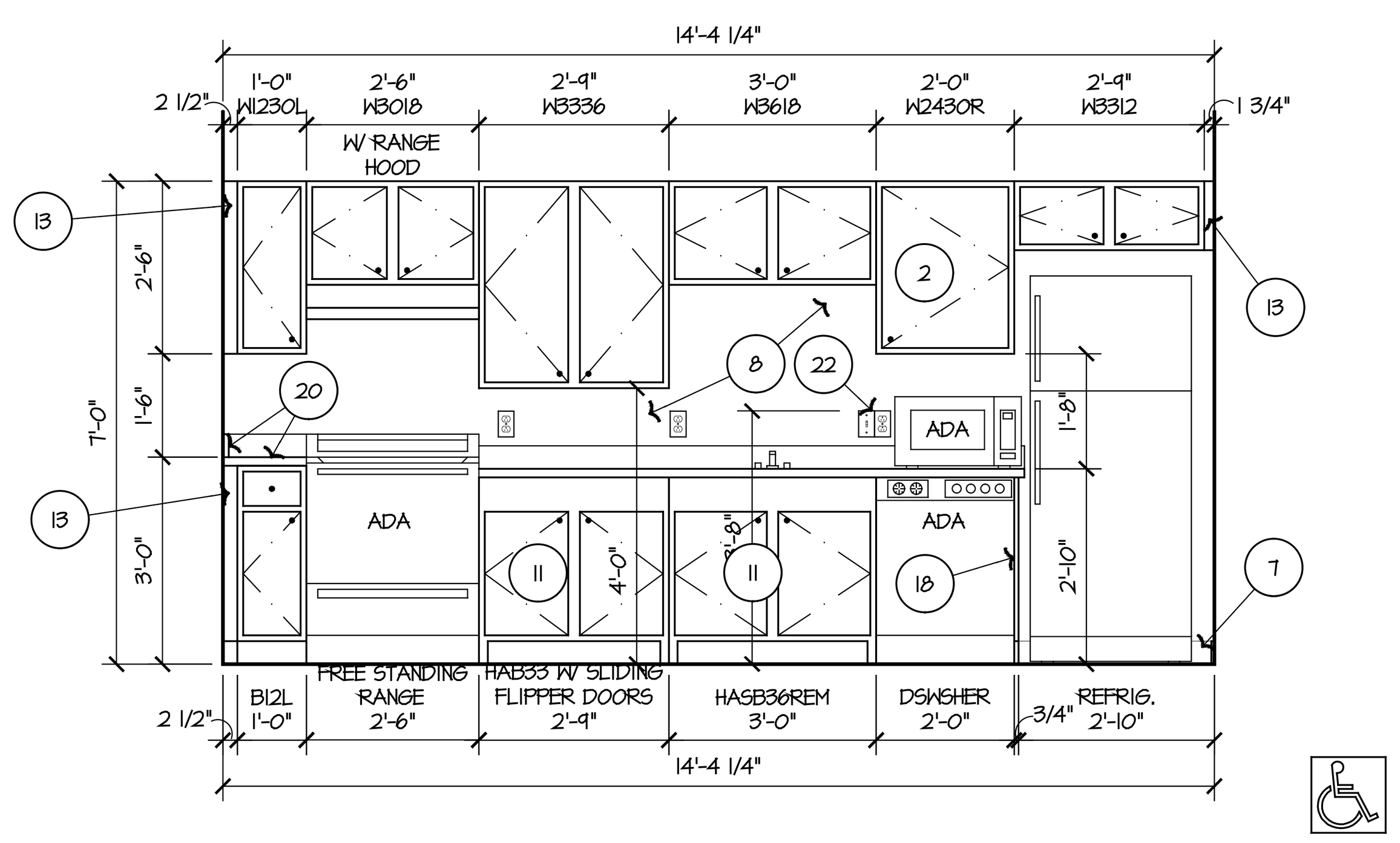
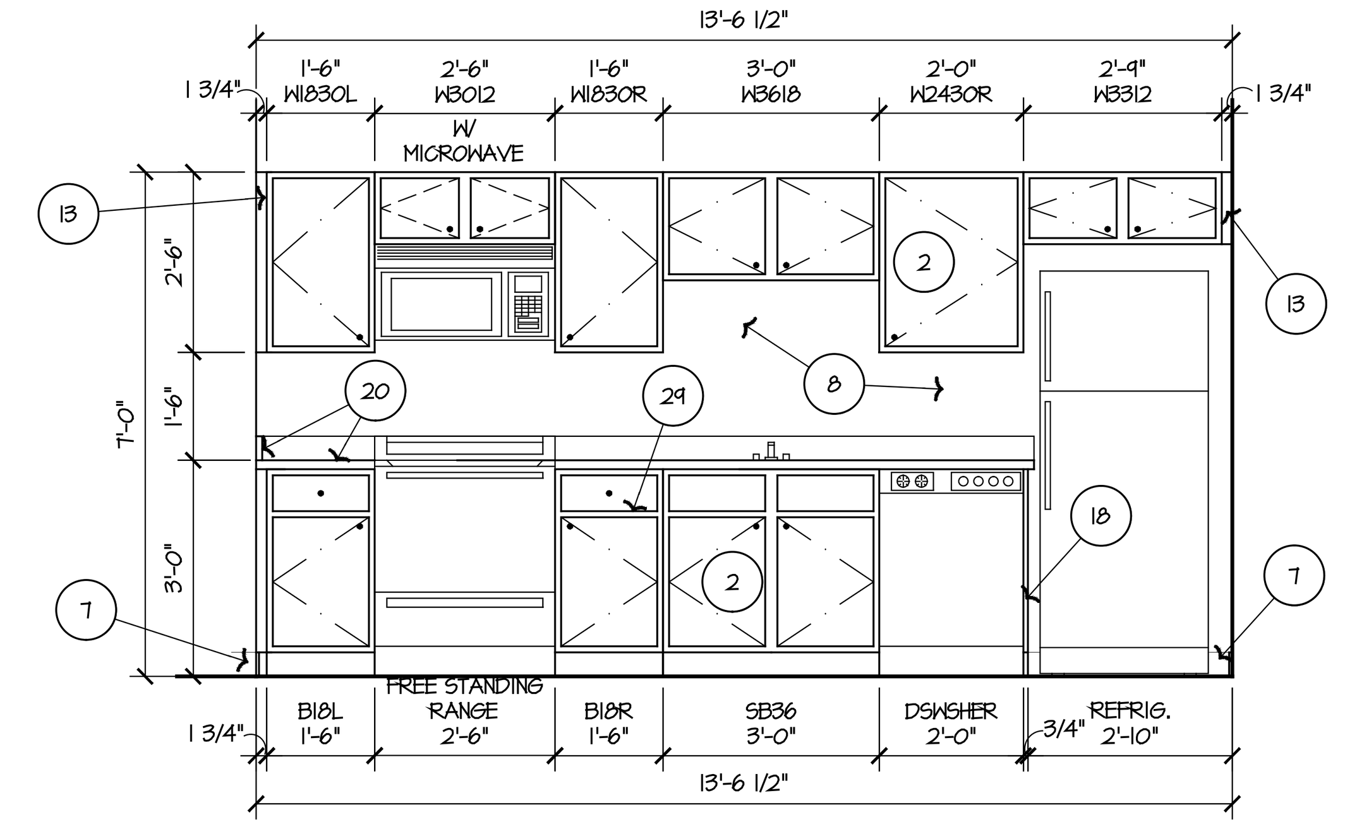
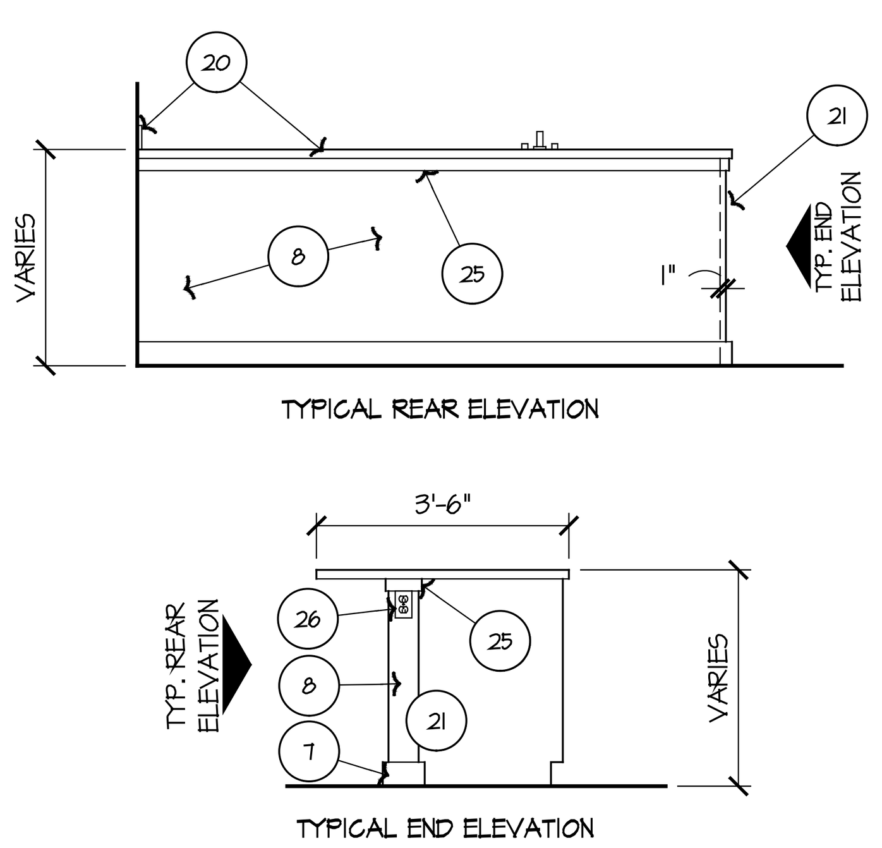
SCALE: 3/8" = 1'-0"



C6 ELEVATION @ ACCESSIBLE KITCHEN
SCALE: 3/8" = 1'-0"



C3 ELEVATION @ KITCHEN
SCALE: 3/8" = 1'-0"



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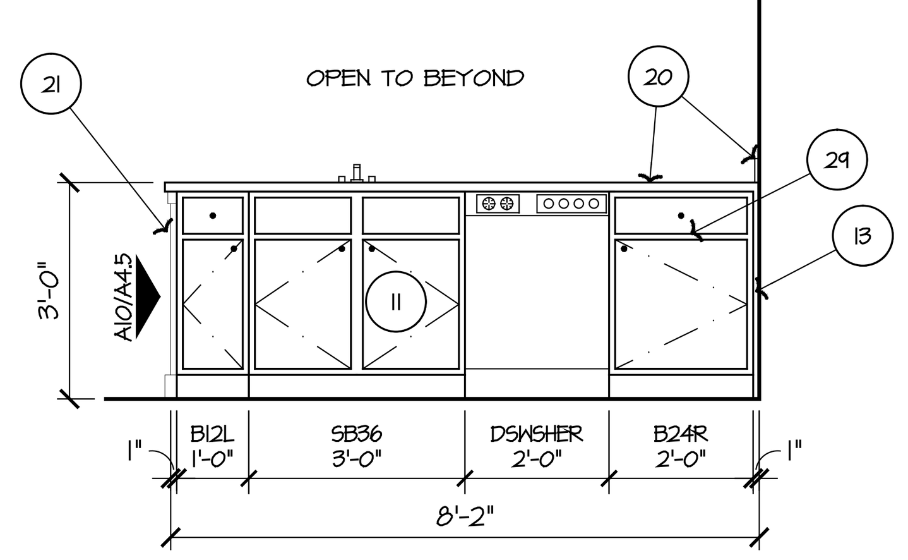

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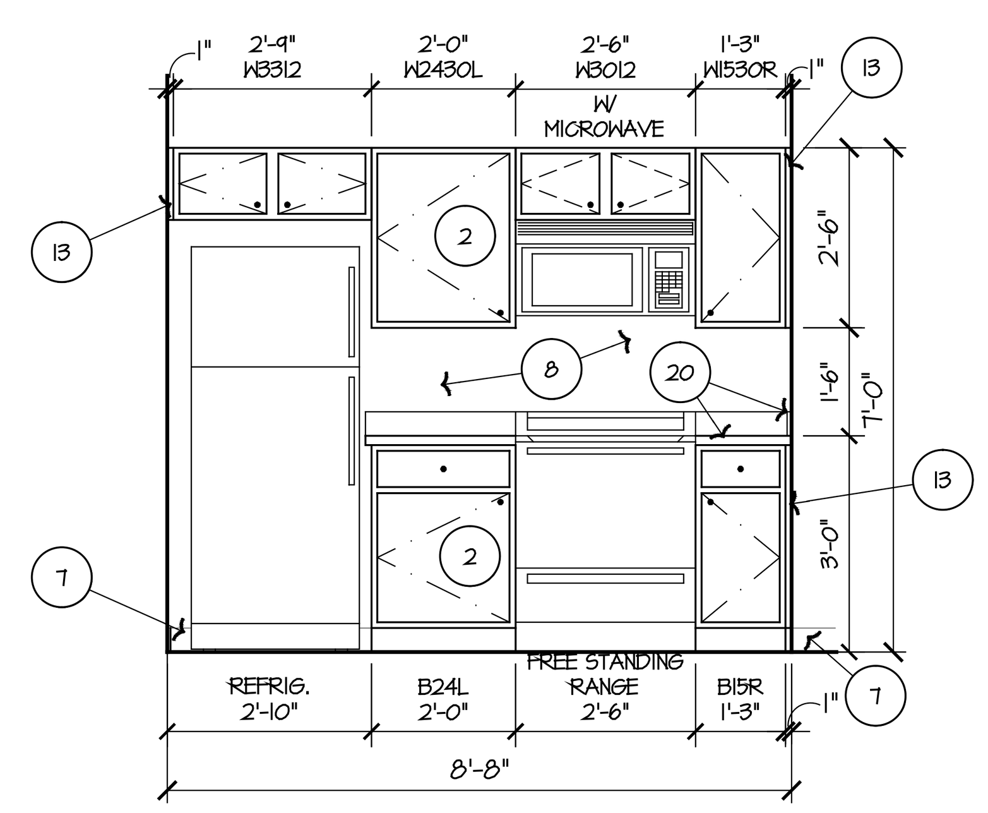
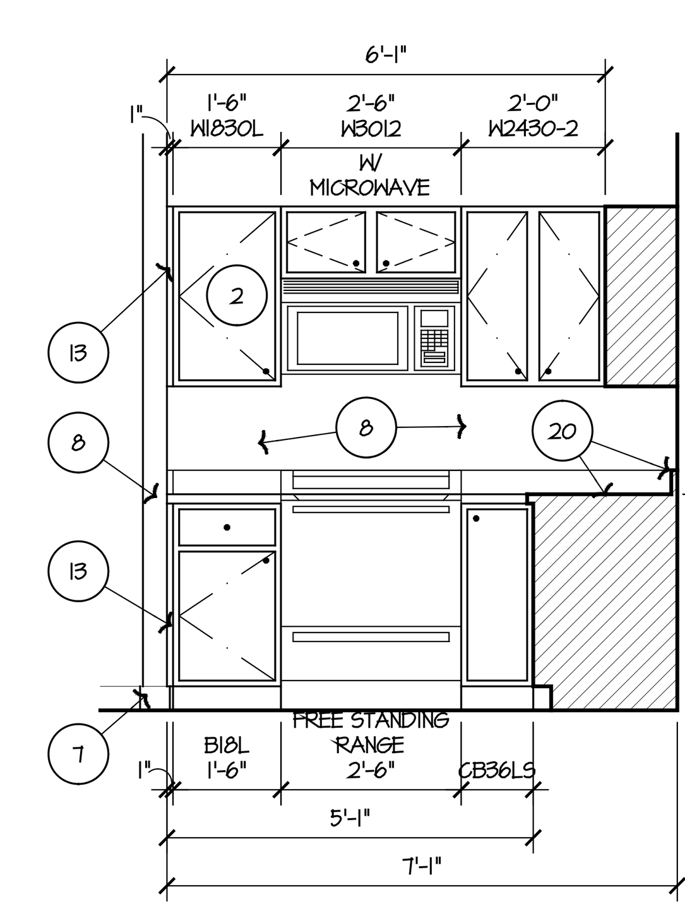


A6 ELEVATION @ KITCHEN
SCALE: 3/8" = 1'-0"



A4 ELEVATION @ KITCHEN
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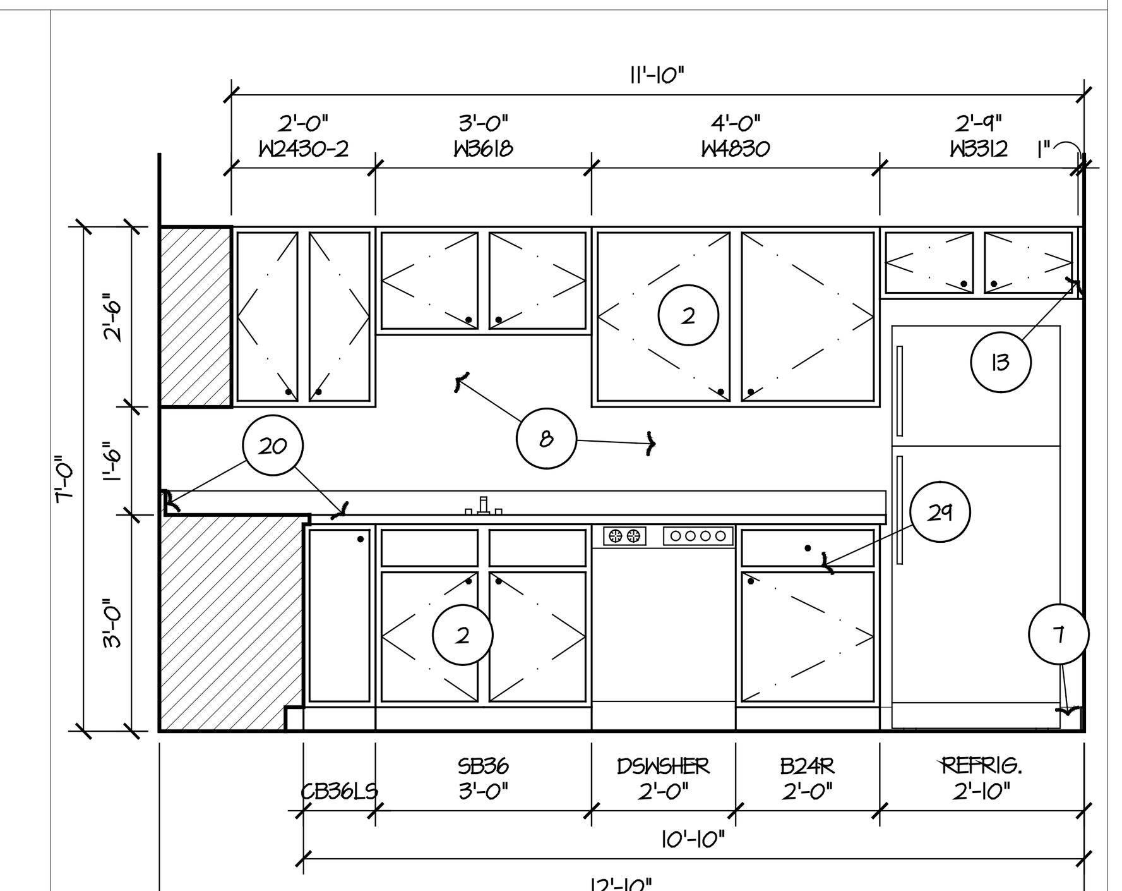


A2 ELEVATION @ KITCHEN
SCALE: 3/8" = 1'-0"

KEY NOTES

1. MIRROR. FULL LENGTH OF VANITY, UNLESS NOTED OTHERWISE. REFER TO SPEC. SECTION 088300.
2. WOOD CABINETS. RE: GENERAL NOTES.
3. INSTALL TUB/SHOWER AFTER FIRE RATED WALL GYPSUM BOARD IS INSTALLED. INSTALL ONE ADDITIONAL LAYER OF GYPSUM BOARD, FLUSH W/ ADJACENT WALL (ADJUST STUD DEPTH AS NEEDED), ON FIRE RATED WALL TO COVER SHOWER NAILING FINS. TYPICAL ALL SIMILAR LOCATIONS.
4. TOILET (A.D.A. COMPLIANT IF NOTED). RE: PLUMBING.
5. 1 PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR FUTURE GRAB BAR INSTALLATION, ICC ANSI A117.1-2009 COMPLIANT. RE: PLUMBING.
6. 1 PIECE FIBERGLASS TUB/SHOWER W/ INTEGRAL WOOD BLOCKING AT HEAD, FOOT & SIDE OF TUB ENCLOSURE BY MANUFACTURER FOR GRAB BAR INSTALLATION, ICC ANSI A117.1-2009 COMPLIANT. MANUFACTURER TO PROVIDE SHOWER W/ COMPLIANT GRAB BARS, SEAT, HAND-HELD SHOWER ASSEMBLY WITH SLIDE BAR, PRESSURE BALANCING MIXING VALVE, SOAP DISH AND CURTAIN ROD. RE: PLUMBING.
7. BASE PER FINISH SCHEDULE.
8. GYPSUM BOARD WALL CONSTRUCTION. PAINT.
9. CULTURED MARBLE COUNTERTOP W/ INTEGRAL SINK AND 4" BACKSPLASH & RETURN. COLOR SOLID WHITE.
10. DOOR PER SCHEDULE.
11. INSTALL FLOOR FINISH & BASE UNDER REMOVABLE BASE CABINET, PAINT WALLS & INSULATE ALL EXPOSED PIPING.
12. 2X WOOD BLOCKING CONTINUOUS, INDICATED BY HATCHED AREA, FOR SCHEDULED & FUTURE INSTALLATION OF GRAB BARS PER ICC/ANSI A117.1-2009. TYPICAL.
13. FILLER PIECE. MATCH CABINET STYLE.
14. ADA WALL MOUNTED SINK. RE: PLUMBING
15. INSULATE ALL EXPOSED PIPING.
16. ADA WATER FOUNTAIN. RE: PLUMBING.
17. MOP SINK WITH STAINLESS STEEL SPLASH GUARDS. RE: PLUMBING.
18. DISHWASHER END PANEL. MATCH CABINET STYLE.
19. BATHTUB / SHOWER VALVE CONTROL AREA. TYPICAL.
20. 1 1/2" THICK PLASTIC LAMINATE COUNTERTOP WITH 4" BACKSPLASH & RETURN WHERE SHOWN. RE: SPEC. SECTION 123623.13.
21. CABINET END PANEL.
22. IN ACCESSIBLE KITCHENS, TOP OF ELECT. BOXES (SWITCHES TO CONTROL GARBAGE DISPOSAL, RANGE HOOD LIGHT, RANGE HOOD FAN, ETC.) & OUTLETS AT 3'-8" AFF. RE: ELEC. PLANS.
23. ELEC. DEVICE. RE: ELEC. PLANS FOR DEVICE TYPE.
24. 1/2" X 1" WOOD TRIM BELOW COUNTERTOP AT WALL JOINT. PAINT.
25. 1/2" X 2" WOOD TRIM UNDER COUNTER. PAINT.
26. INSTALL 2 1/2" RUBBER BASE ON ALL BATH FRONTS. COLOR WHITE.
27. ADA SHOWER CONTROL & HAND SHOWER. HAND SHOWER TO HAVE MIN 59" HOSE & ADJUSTABLE HEIGHT SHOWER HEAD MOUNTED ON A 30" VERTICAL BAR. RE: PLUMBING PLANS.
28. REMOVABLE BASE END SUPPORT TO BE ANGLED SUPPORT TO COMPLY WITH SPACE REQUIREMENTS OF DETAIL E2/A4.4. FULL END SUPPORT PANEL NOT ALLOWED.
29. UNIVERSAL DESIGN FEATURE. CUSTOM PULL OUT WORK SURFACE KIT BY CABINET MANUFACTURER.

GENERAL NOTES

A. IN ALL UNIT BATHS, CONTRACTOR SHALL PROVIDE & INSTALL 1 HAND TOWEL RING (6" DIA), 1 ROBE HOOK, 1 TOILET PAPER DISPENSER, SHOWER ROD, & 2 TOWEL BARS (24"). REFER TO SPEC. SECTION 102800.
B. CABINETRY SHALL BE BY ARMSTRONG, TIARA STYLE (RAISED PANEL MAPLE), MOCHA FINISH. PULLS BY AMEROCK CORP., PULL STYLE BP52995G10. COORDINATE CABINETRY INSTALLATION AS REQUIRED PRIOR TO FABRICATION. CONSTRUCT WALLS W/ ROUGH OPENINGS AS NEEDED FOR SIZES OF CABINETRY INDICATED. INSTALL MATCHING WOOD SCRIBE AT ALL CABINET / WALL JOINTS. INSTALL MATCHING WOOD QUARTER ROUND BASE SHOE AT ALL TOEKICK & END PANEL / FINISH FLOOR JOINTS. TOEKICK TO MATCH CABINETRY FINISH. REFER TO SPEC. SECTION 123530.
C. COORDINATE CABINETRY WITH APPLIANCES FOR PROPOER CLEARANCES, OPERATION, ETC.. RE: SPEC SECTION 113100 FOR APPLIANCE INFORMATION.
D. PRIOR TO FABRICATION OF CASEWORK, CONTRACTOR SHALL FIELD VERIFY ACTUAL FINISHED WALL DIMENSIONS.
E. PROVIDE FINISHED SURFACES ON CABINETS & COUNTERTOPS WHERE EXPOSED TO VIEW.
F. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS & CEILINGS IN BATHS.
G. INSTALL 5/8" FIRE RATED MOISTURE/MOLD RESISTANT GYP. BD. ON ALL WALLS A MIN. OF 12" BEYOND EXTENTS OF CABINETRY IN KITCHENS.
H. UTILIZE 2X WOOD BLOCKING AS REQUIRED FOR INSTALLATION OF CABINETRY, ACCESSORIES, ETC..
I. ARCHITECT TO SELECT ALL COLORS, FINISHES, ETC..
J. CAULK ALL COUNTERTOP & BACKSPLASH / G.B. WALL JOINTS. SET SINKS IN A BED OF CAULK. CAULK TO BE CLEAR.

TOILET ACCESSORIES LEGEND

NOTE: CONTRACTOR SHALL INSTALL ALL REQUIRED 2X WOOD BLOCKING FOR A PROPER INSTALLATION OF TOILET ACCESSORIES. REFER TO G2/A4.3 FOR MOUNTING HEIGHTS. REFER TO SPEC. SECTION 102800 FOR ADDITIONAL INFORMATION.

TA-1	TOILET TISSUE DISPENSER
TA-2	CURVED SHOWER CURTIAN ROD
TA-3	24" TOWEL BAR
TA-4	HAND TOWEL RING
TA-5	ROBE HOOK
TA-6	42" GRAB BAR
TA-7	36" GRAB BAR
TA-8	TILT MIRROR - SURFACE MOUNT BOBRICK
TA-9	COMBINATION TRASH AND PAPER TOWEL DISPENSER
TA-10	SOAP DISPENSER
TA-11	18" VERTICAL GRAB BAR
TA-12	MOP AND BROOM HOLDER INSTALL AT JANITOR'S SINK
TA-13	24" GRAB BAR
TA-14	TOILET TISSUE DISPENSER SURFACE MOUNT BOBRICK B-2888
TA-15	SANITARY NAPKIN DISPOSAL SURFACE MOUNT BOBRICK B-270
(hatched)	2X WOOD BLOCKING, REFER TO ELEVATIONS FOR LOCATIONS

APARTMENT UNIT TOILET ACCESSORIES BY MOEN, 'VALE' STYLE, BRUSHED NICKEL FINISH.

SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 • KANSAS CITY, MO 64112 • T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

INTERIOR ELEVATIONS

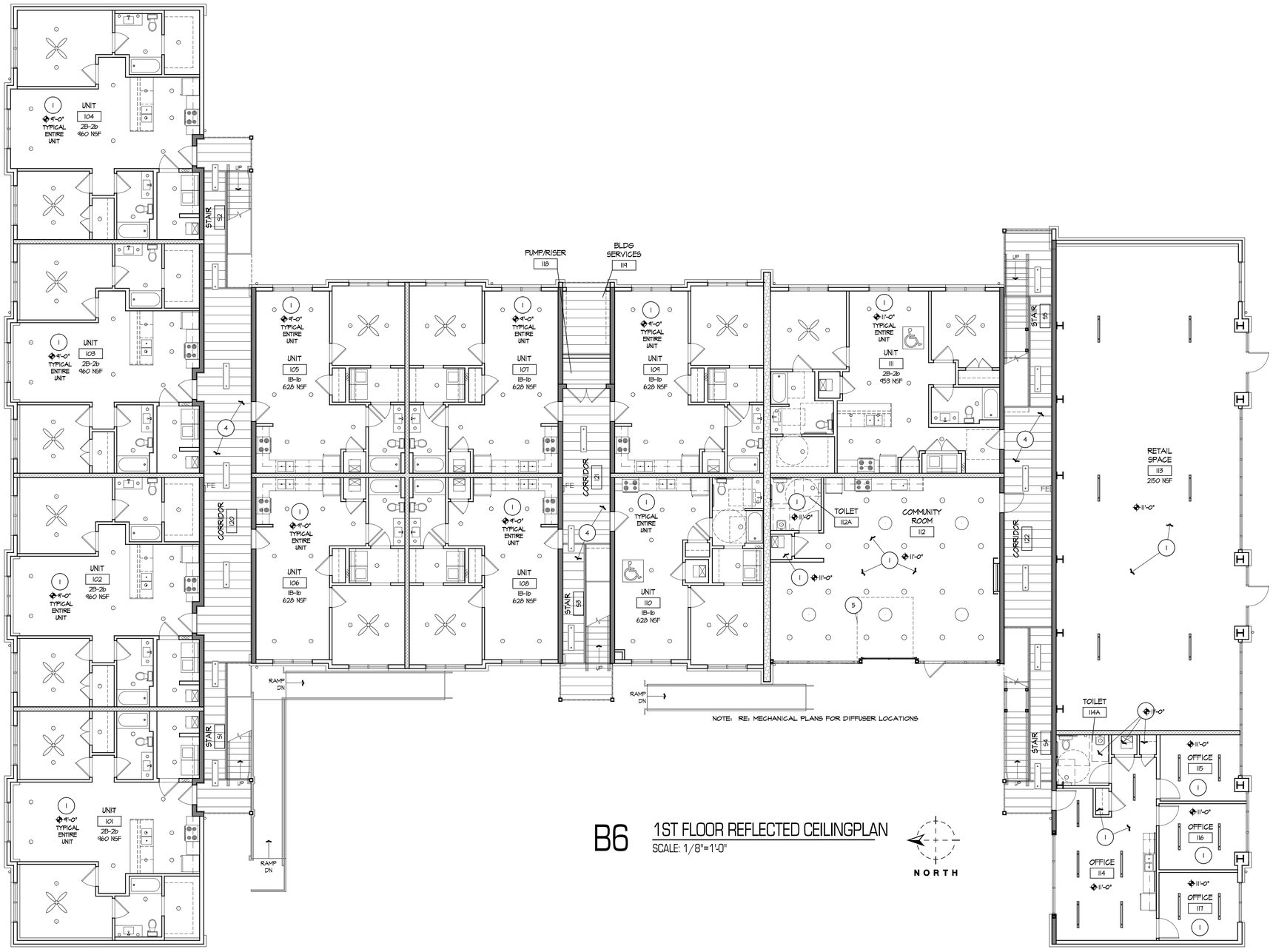
ISSUE DATE:
02.04.2019

REVISIONS:

PROJECT NO.: 1817

A4.5

Feb 02,2019 11:21am



B6 1ST FLOOR REFLECTED CEILINGPLAN
SCALE: 1/8"=1'-0"

NORTH

KEY NOTES

1. 5/8" FIRE RATED GYPSUM BOARD ON HAT CHANNELS ON BOTTOM OF WOOD TRUSS FRAMING. 1 HOUR ASSEMBLY. REFER TO FIRE RATED ASSEMBLY DETAILS.
2. CEMENT BOARD SOFFIT. PAINT. G74646
3. GYP. BD. HEADER. PAINT.
4. OPEN DECK FRAMING. RE: STRUCTURAL
5. OVERHEAD DOOR AND TRACKS THIS AREA. PROVIDE WOOD BLOCKING AS NECESSARY FOR TRACK SUPPORT.

CEILING PLAN GENERAL NOTES

A. ALL WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, ADA/HANDICAP ACCESSIBILITY AND LIFE SAFETY CODES AND REQUIREMENTS.

B. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO ORDERING, FABRICATION ETC.,

C. REFERENCE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

D. ALL FLOOR/CEILING, ROOF/CEILING AND WALL PENETRATIONS ARE TO BE PROPERLY FIRECAULKED, FIRESTOPPED, SMOKE/FIRE DAMPERED, ETC. AS REQUIRED TO MAINTAIN THE FIRE RESISTIVE RATING OF THE RESPECTIVE ASSEMBLIES, AS REQUIRED BY THE APPLICABLE BUILDING CODE.

E. CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHERTIGHT, WATERTIGHT, AIRTIGHT, ETC. PERFORMANCE.

F. ALL PLUMBING PIPING AND ELECTRICAL CONDUIT IS TO BE CONCEALED WITHIN NEW CONSTRUCTION UNLESS NOTED OTHERWISE. IF PIPING OR DUCTWORK IS SHOWN TO BE EXPOSED REMOVE ALL LABELS AND MARKINGS. RE: MEP DRAWINGS.

G. ALL AIR CONDITIONING REFRIGERANT LINES SHALL BE ROUTED AND CONCEALED IN WALLS AND CEILINGS. TYPICAL.

H. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE AND FIRE ALARM INFORMATION AND DEVICE LOCATIONS.

I. REFER TO AV DRAWINGS FOR ADDITIONAL LOW VOLTAGE DEVICE LOCATIONS.

SWD ARCHITECTS
EST 1935
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SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI TIMOTHY O.K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

1ST FLOOR
REFLECTED CEILING
PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A5.1

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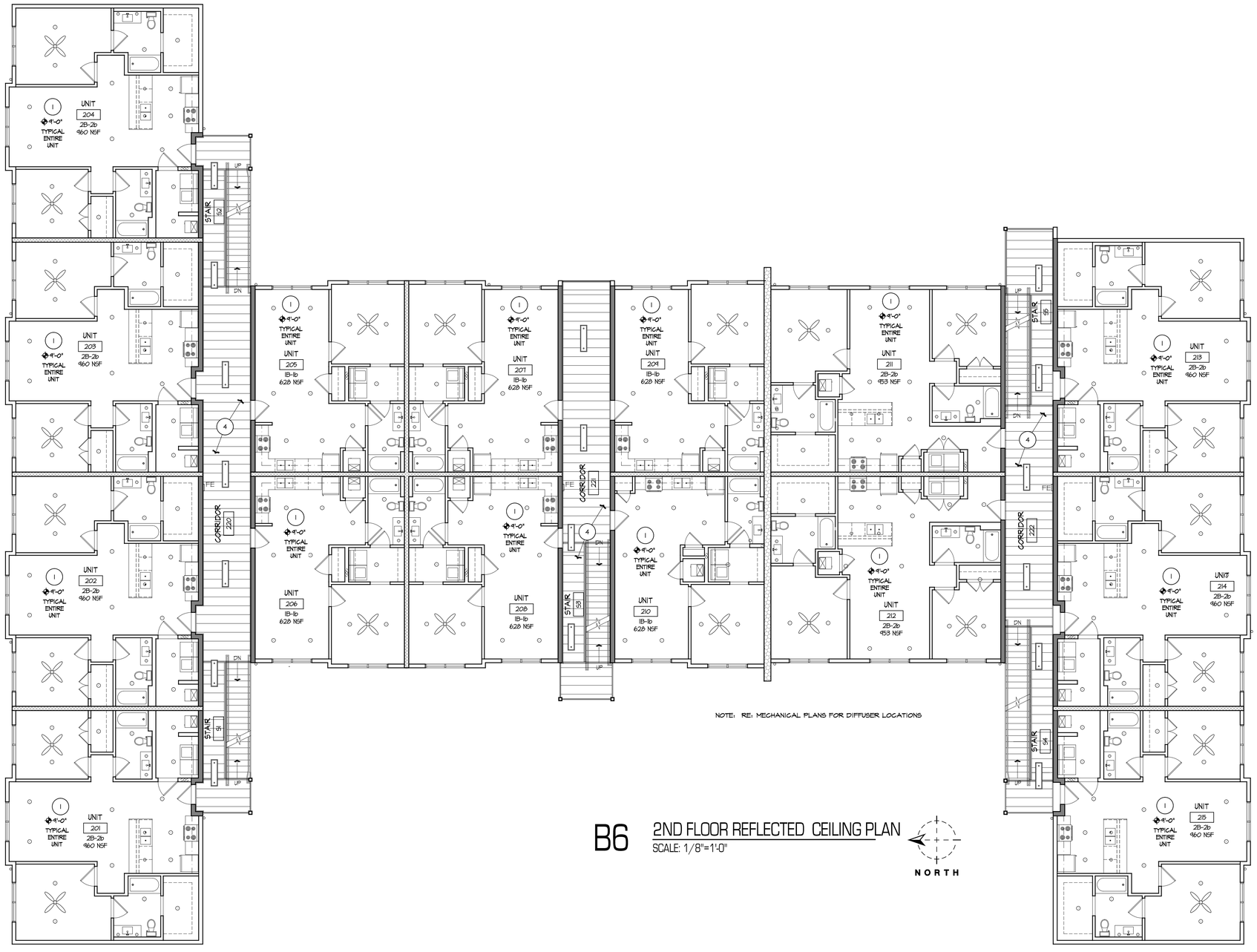
Feb 02,2019 11:42am



NOTE: RE: MECHANICAL PLANS FOR DIFFUSER LOCATIONS

B6 2ND FLOOR REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

NORTH

KEY NOTES

1. 5/8" FIRE RATED GYPSUM BOARD ON HAT CHANNELS ON BOTTOM OF WOOD TRUSS FRAMING. 1 HOUR ASSEMBLY. REFER TO FIRE RATED ASSEMBLY DETAILS.
2. CEMENT BOARD SOFFIT. PAINT. G74646
3. GYP. BD. HEADER. PAINT.
4. OPEN DECK FRAMING. RE: STRUCTURAL
5. OVERHEAD DOOR AND TRACKS THIS AREA. PROVIDE WOOD BLOCKING AS NECESSARY FOR TRACK SUPPORT.

CEILING PLAN GENERAL NOTES

A. ALL WORK TO MEET ALL APPLICABLE BUILDING, PLUMBING, MECHANICAL, ELECTRICAL, ADA/HANDICAP ACCESSIBILITY AND LIFE SAFETY CODES AND REQUIREMENTS.

B. DO NOT SCALE DRAWINGS. FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS PRIOR TO ORDERING, FABRICATION ETC.

C. REFERENCE ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL AND ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.

D. ALL FLOOR/CEILING, ROOF/CEILING AND WALL PENETRATIONS ARE TO BE PROPERLY FIRECAULKED, FIRESTOPPED, SMOKE/FIRE DAMPERED, ETC. AS REQUIRED TO MAINTAIN THE FIRE RESISTIVE RATING OF THE RESPECTIVE ASSEMBLIES, AS REQUIRED BY THE APPLICABLE BUILDING CODE.

E. CAULK ALL JOINTS BETWEEN DISSIMILAR MATERIALS FOR WEATHERTIGHT, WATERTIGHT, AIRTIGHT, ETC. PERFORMANCE.

F. ALL PLUMBING PIPING AND ELECTRICAL CONDUIT IS TO BE CONCEALED WITHIN NEW CONSTRUCTION UNLESS NOTED OTHERWISE. IF PIPING OR DUCTWORK IS SHOWN TO BE EXPOSED REMOVE ALL LABELS AND MARKINGS. RE: MEP DRAWINGS.

G. ALL AIR CONDITIONING REFRIGERANT LINES SHALL BE ROUTED AND CONCEALED IN WALLS AND CEILINGS. TYPICAL.

H. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE AND FIRE ALARM INFORMATION AND DEVICE LOCATIONS.

I. REFER TO AV DRAWINGS FOR ADDITIONAL LOW VOLTAGE DEVICE LOCATIONS.

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD. STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI TIMOTHY O.K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

2ND FLOOR
REFLECTED CEILING
PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A5.2

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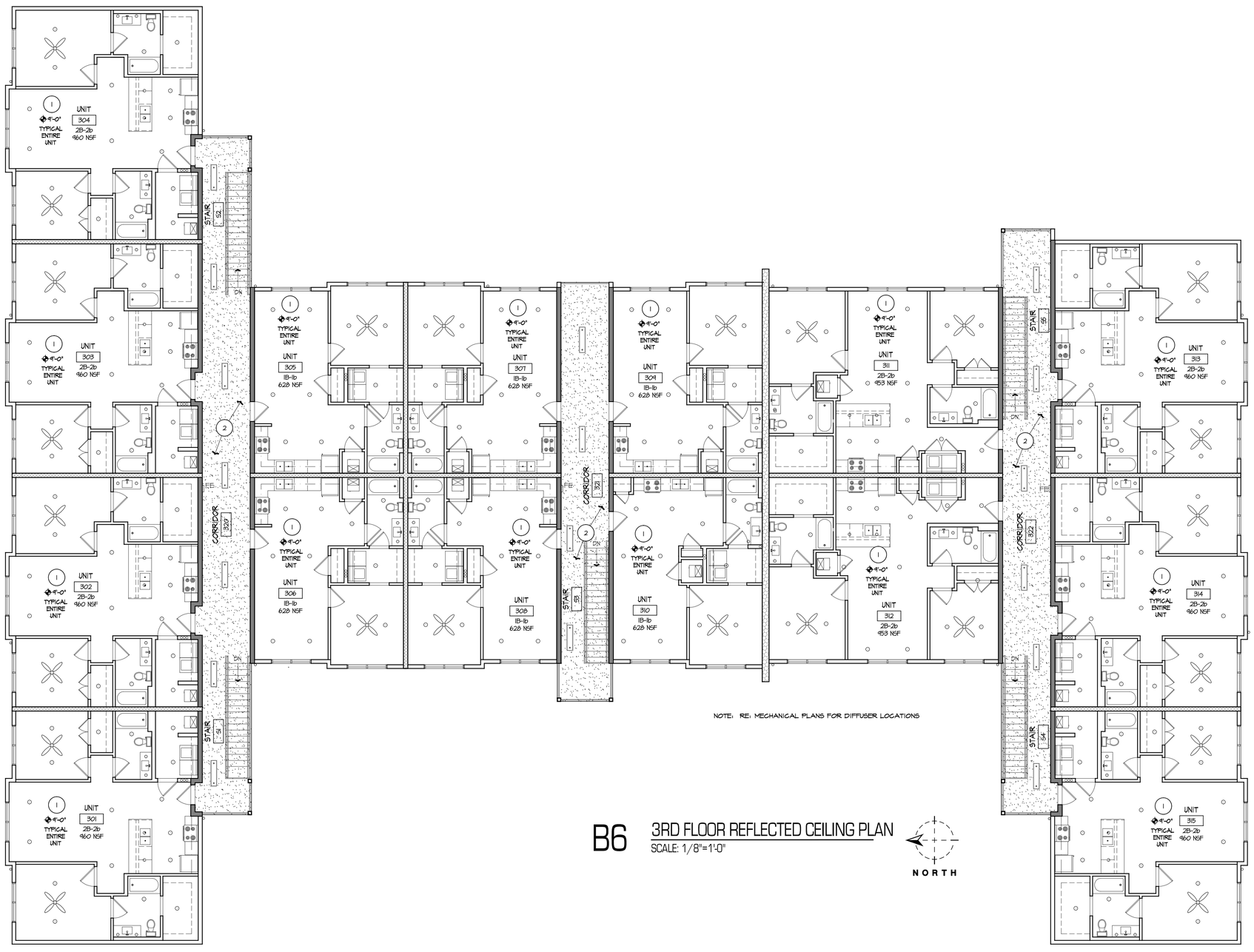

NOTE: RE: MECHANICAL PLANS FOR DIFFUSER LOCATIONS

B6 3RD FLOOR REFLECTED CEILING PLAN
SCALE: 1/8"=1'-0"

NORTH

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SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI TIMOTHY O.K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

3RD FLOOR
REFLECTED CEILING
PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A5.3

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Feb 02,2019 11:40am

DOOR SCHEDULE

DOOR INFORMATION						FRAME INFORMATION					
NO.	SIZE F.V. = FIELD VERIFY EX. = EX. TO REMAIN	MAT. TYPE	DOOR TYPE	UL RATING	HDWR SET	MAT. TYPE	FRAME TYPE	HEAD	JAMB	SILL	REMARKS
101-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
101-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
101-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
101-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
101-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
101-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
101-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
102-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
102-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
102-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
102-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
102-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
102-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
102-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
103-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
103-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
103-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
103-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
103-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
103-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
103-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
104-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
104-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
104-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
104-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
104-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
104-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
104-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
105-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
105-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
105-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
105-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
105-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
105-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
106-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
106-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
106-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
106-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
106-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
106-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
107-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
107-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
107-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
107-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
107-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
107-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
108-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
108-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
108-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
108-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
108-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
108-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
109-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
109-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
109-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
109-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
109-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
109-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
110-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
110-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
110-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
110-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
110-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
111-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
111-2	3'-0" X 6'-8" X 1 3/8" DBL	HCL	C	-	D	WD	B	G2/A3.6	G2/A3.6	-	
111-3	2'-6" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
111-4	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
111-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
111-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
111-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
111-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
111-9	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
112-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
112-2	3'-0" X 8'-0" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	8'-0" TALL DOOR
112-3	8'-0" W X 9'-0" H	OHA	E	-	-	-	-	E2/A3.6	E4/A3.6	C4/A3.6	OVERHEAD DOOR
112-4	3'-0" X 7'-0" X 1 3/4"	ALUM	D	-	G	ALUM	C	G8/A3.6	G8/A3.6	G10/A3.6	
112A-1	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
113-1	3'-0" X 7'-0" X 1 3/4"	ALUM	D	-	G	ALUM	C	G8/A3.6	G8/A3.6	G10/A3.6	
113-2	3'-0" X 7'-0" X 1 3/4"	ALUM	D	-	G	ALUM	C	G8/A3.6	G8/A3.6	G10/A3.6	

DOOR SCHEDULE

DOOR INFORMATION						FRAME INFORMATION					
NO.	SIZE F.V. = FIELD VERIFY EX. = EX. TO REMAIN	MAT. TYPE	DOOR TYPE	UL RATING	HDWR SET	MAT. TYPE	FRAME TYPE	HEAD	JAMB	SILL	REMARKS
114-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
114-2	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
114-3	3'-0" X 8'-0"" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	8'-0" TALL DOOR
114-4	2'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
114A-1	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
115-1	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	H	WD	A	G2/A3.6	G2/A3.6	-	
116-1	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	H	WD	A	G2/A3.6	G2/A3.6	-	
117-1	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	H	WD	A	G2/A3.6	G2/A3.6	-	
118-1	3'-0" X 7'-0" X 1 3/4" DBL	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
119-1	6'-0" W X 7'-0" H	OHS	F	-	-	-	-	E2/A3.6	E4/A3.6	C4/A3.6	OVERHEAD DOOR
201-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
201-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
201-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
201-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
201-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
201-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
201-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
202-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
202-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
202-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
202-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
202-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
202-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
202-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
203-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
203-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
203-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
203-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
203-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
203-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
203-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
204-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
204-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
204-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
204-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
204-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
204-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
204-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
205-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
205-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
205-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
205-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
205-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
205-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
206-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
206-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
206-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
206-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
206-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
206-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
207-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
207-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
207-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
207-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
207-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
207-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
208-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
208-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
208-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
208-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
208-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
208-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
209-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
209-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
209-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
209-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
209-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
209-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
210-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
210-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
210-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
210-4	2'-6" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
210-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
210-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
210-7	2'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
211-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
211-2	3'-0" X 6'-8" X 1 3/8" DBL	HCL	C	-	D	WD	B	G2/A3.6	G2/A3.6	-	
211-3	2'-6" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
211-4	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
211-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
211-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
211-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
211-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
211-9	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	

DOOR SCHEDULE

DOOR INFORMATION						FRAME INFORMATION					
NO.	SIZE F.V. = FIELD VERIFY EX. = EX. TO REMAIN	MAT. TYPE	DOOR TYPE	UL RATING	HDWR SET	MAT. TYPE	FRAME TYPE	HEAD	JAMB	SILL	REMARKS
212-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
212-2	3'-0" X 6'-8" X 1 3/8" DBL	HCL	C	-	D	WD	B	G2/A3.6	G2/A3.6	-	
212-3	2'-6" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
212-4	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
212-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
212-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
212-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
212-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
212-9	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
213-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
213-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
213-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
213-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
213-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
213-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
213-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
214-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
214-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
214-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
214-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
214-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
214-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
214-6	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
215-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
215-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
215-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
215-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
215-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
215-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
215-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
301-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
301-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
301-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
301-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
301-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
301-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
301-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
302-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
302-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
302-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
302-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
302-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
302-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
302-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
303-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
303-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
303-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
303-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
303-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
303-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
303-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
304-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
304-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
304-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
304-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
304-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
304-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
304-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	G2/A3.6	G2/A3.6	-	
305-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
305-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
305-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
305-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
305-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
305-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
306-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
306-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
306-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
306-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
306-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
306-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
307-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
307-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
307-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
307-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
307-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
307-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
308-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	G4/A3.6	G4/A3.6	G6/A3.6	
308-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	G2/A3.6	G2/A3.6	-	
308-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
308-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	
308-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	G2/A3.6	G2/A3.6	-	
308-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	G2/A3.6	G2/A3.6	-	

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SWD
ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

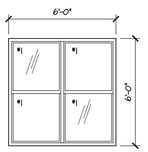
NUMBER A-6972

DOOR SCHEDULE

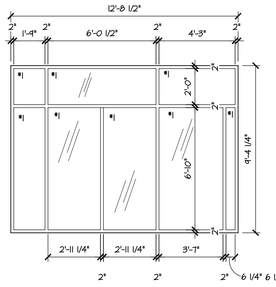
ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

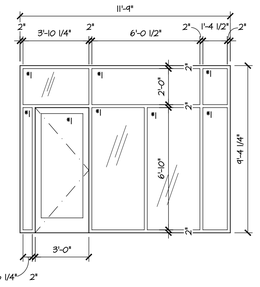
A6.1



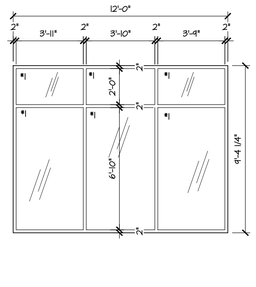
A VINYL WINDOW
QUAKER ADVANTEDGE



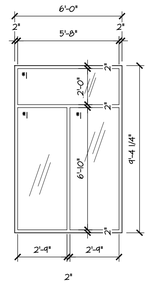
B ALUMINUM STOREFRONT
SYSTEM, KAWNEER
TRIFAB 451 UT



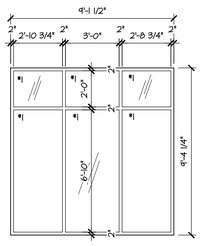
C ALUMINUM STOREFRONT
SYSTEM, KAWNEER
TRIFAB 451 UT



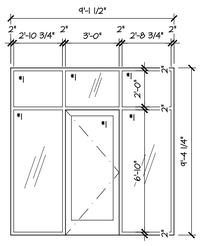
D ALUMINUM STOREFRONT
SYSTEM, KAWNEER
TRIFAB 451 UT



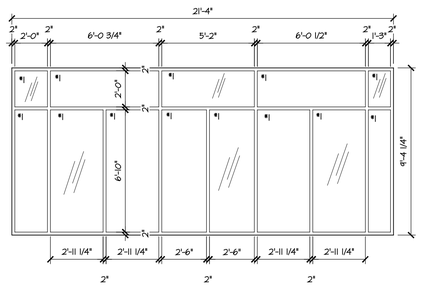
E ALUMINUM STOREFRONT
SYSTEM, KAWNEER
TRIFAB 451 UT



F ALUMINUM STOREFRONT
SYSTEM, KAWNEER
TRIFAB 451 UT



G ALUMINUM STOREFRONT
SYSTEM, KAWNEER
TRIFAB 451 UT



H ALUMINUM STOREFRONT
SYSTEM, KAWNEER
TRIFAB 451 UT

GLAZING LEGEND

*| CLEAR INSULATED LOW-E SAFETY GLAZING

NOTE:
PROVIDE FIRE RATED & SAFETY GLAZING WHERE REQUIRED BY CODE.

GENERAL NOTES

A. ALL SECOND & THIRD FLOOR OPERABLE WINDOWS TO HAVE OPENING CONTROL DEVICES. COLOR TO MATCH WINDOW. CONTROL DEVICE SHALL ALLOW WINDOW TO OPENING FULLY.

C10 WINDOW TYPES
SCALE: NO SCALE

DOOR SCHEDULE

DOOR INFORMATION						FRAME INFORMATION					
NO.	SIZE F.V. = FIELD VERIFY EX. = EX. TO REMAIN	MAT. TYPE	DOOR TYPE	UL RATING	HDWR SET	MAT. TYPE	FRAME TYPE	HEAD	JAMB	SILL	REMARKS
304-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	64/A5.6	64/A5.6	66/A5.6	
304-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	62/A5.6	62/A5.6	-	
304-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
304-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	62/A5.6	62/A5.6	-	
304-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
304-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	62/A5.6	62/A5.6	-	
310-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	64/A5.6	64/A5.6	66/A5.6	
310-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	62/A5.6	62/A5.6	-	
310-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
310-4	2'-6" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	62/A5.6	62/A5.6	-	
310-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
310-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	62/A5.6	62/A5.6	-	
310-7	2'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	62/A5.6	62/A5.6	-	
311-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	64/A5.6	64/A5.6	66/A5.6	
311-2	5'-0" X 6'-8" X 1 3/8" DBL	HCL	C	-	D	WD	B	62/A5.6	62/A5.6	-	
311-3	2'-6" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	62/A5.6	62/A5.6	-	
311-4	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	62/A5.6	62/A5.6	-	
311-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
311-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	62/A5.6	62/A5.6	-	
311-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
311-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
311-9	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	62/A5.6	62/A5.6	-	
312-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	64/A5.6	64/A5.6	66/A5.6	
312-2	5'-0" X 6'-8" X 1 3/8" DBL	HCL	C	-	D	WD	B	62/A5.6	62/A5.6	-	
312-3	2'-6" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	62/A5.6	62/A5.6	-	
312-4	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	62/A5.6	62/A5.6	-	
312-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
312-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	B	WD	A	62/A5.6	62/A5.6	-	
312-7	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
312-8	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
312-9	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	62/A5.6	62/A5.6	-	
313-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	64/A5.6	64/A5.6	66/A5.6	
313-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	62/A5.6	62/A5.6	-	
313-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
313-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
313-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
313-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
313-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	62/A5.6	62/A5.6	-	
314-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	64/A5.6	64/A5.6	66/A5.6	
314-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	62/A5.6	62/A5.6	-	
314-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
314-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
314-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
314-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
314-6	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	62/A5.6	62/A5.6	-	
315-1	3'-0" X 7'-0" X 1 3/4"	HMI	A	60 MIN.	A	HM	A	64/A5.6	64/A5.6	66/A5.6	
315-2	3'-0" X 6'-8" X 1 3/8"	HCL	C	-	B	WD	A	62/A5.6	62/A5.6	-	
315-3	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
315-4	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
315-5	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
315-6	3'-0" X 6'-8" X 1 3/8"	HCM	B	-	C	WD	A	62/A5.6	62/A5.6	-	
315-7	2'-0" X 6'-8" X 1 3/8" DBL	HCM	B	-	D	WD	B	62/A5.6	62/A5.6	-	

HARDWARE SETS

REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

A. 1 1/2 PR. BUTTS
1 LATCHSET AND DEADBOLT
1 WEATHER STRIP SET WITH SWEEP
1 THRESHOLD
1 STOP
1 VIEWER - 60" AFF (NO VIEWER ON DOOR D)
ADD 2ND DOOR VIEWER IN ACCESSIBLE UNITS @ 48" AFF

B. 1 1/2 PR. BUTTS
1 LATCHSET
1 STOP

C. 1 1/2 PR BUTTS
1 PRIVACY SET
1 STOP

D. 3 PR BUTTS
2 DUMMY SET
2 BALLCATCH @ HEAD OF DOORS
2 STOP

E. 1 1/2 PR BUTTS
1 OFFICE SET
1 STOP

F. 3 PR. BUTTS
1 LATCHSET AND DEADBOLT
1 WEATHER STRIP SET WITH SWEEP
1 THRESHOLD
1 SET FLUSH BOLTS

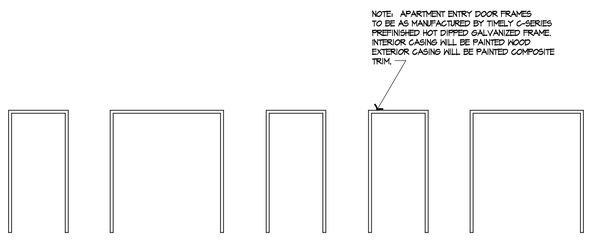
G. CYLINDER
REMAINING HARDWARE BY STORE FRONT MFG.

H. 3 1/2 PR BUTTS
1 STOREROOM LOCKSET
1 STOP

I. 3 PR BUTTS
1 STOREROOM LOCKSET
1 COORDINATOR
1 ASTRAGRAL
2 CLOSERS
1 WEATHER STRIP
1 THRESHOLD

GENERAL DOOR HARDWARE NOTES

1. ALL LOCKSETS TO BE HANDICAP ACCESSIBLE LEVER TYPE, SCHLAGE 'LUPITER' STYLE OR APPROVED EQUAL, U.N.O..
2. ALL HARDWARE FINISHES TO BE US26D.
3. ALL APARTMENT ENTRANCE DOOR HARDWARE TO BE LIGHT COMMERCIAL GRADE. RESIDENTIAL GRADE AT ALL OTHER LOCATIONS.
4. UTILIZE BASE STOPS TO FULLEST EXTENT PRACTICAL, USING HINGE STOPS (1 HIGH & 1 LOW) ONLY WHERE BASE STOPS ARE NOT APPLICABLE.



A PRE-HUNG
WOOD
SINGLE

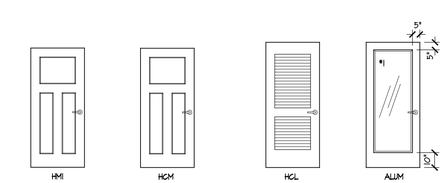
B PRE-HUNG
WOOD
DOUBLE

C ALUMINUM
SINGLE

D HOLLOW METAL
SINGLE

E HOLLOW METAL
PAIR

A10 FRAME TYPES
SCALE: NO SCALE



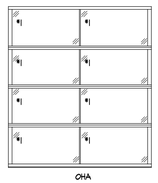
HMI HCM HCL ALUM

A INSULATED CORE,
MOLDED 3 PANEL,
METAL DOOR

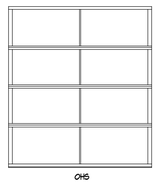
B HOLLOW CORE
MOLDED 3 PANEL

C HOLLOW CORE
WOOD LOUVERED

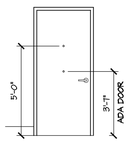
D ALUMINUM
STOREFRONT



E ALUMINUM AND GLASS
OVERHEAD DOOR MODEL 511



F INSULATED STEEL
OVERHEAD DOOR MODEL 410



DOOR VIEWER
INSTALLATION HEIGHTS

A6 DOOR TYPES
SCALE: NO SCALE

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

DOOR SCHEDULE

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

A6.2

M:\1817 Y GARDENS\A6.2.dwg
Feb 02,2019 11:10am

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE				WALLS				CEILING		REMARKS
			N	E	S	W	N	E	S	W	FINISH	HEIGHT	
101	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
102	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
103	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
104	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
105	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
106	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
107	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
108	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
109	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE				WALLS				CEILING		REMARKS
			N	E	S	W	N	E	S	W	FINISH	HEIGHT	
110	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
111	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
112	COMMUNITY ROOM	VPF	BI	BI	BI	BI	P2	P2	P2	P2	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	P2	P2	P2	P2	CGBI	RE: RCP	
112A	TOILET	VT	BI	BI	BI	BI	P2	P2	P2	P2	CGBI	RE: RCP	
113	RETAIL SPACE	GONG	-	-	-	-	-	-	-	-	CGBI	RE: RCP	
114	OFFICE	VPF	BI	BI	BI	BI	P2	P2	P2	P2	CGBI	RE: RCP	
	CLOSET	VPF	BI	BI	BI	BI	P2	P2	P2	P2	CGBI	RE: RCP	
	CLOSET	VPF	BI	BI	BI	BI	P2	P2	P2	P2	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	P2	P2	P2	P2	CGBI	RE: RCP	
114A	TOILET	VT	BI	BI	BI	BI	P2	P2	P2	P2	CGBI	RE: RCP	
115	OFFICE	VPF	BI	BI	BI	BI	P3	P3	P3	P3	CGBI	RE: RCP	
116	OFFICE	VPF	BI	BI	BI	BI	P3	P3	P3	P3	CGBI	RE: RCP	
117	OFFICE	VPF	BI	BI	BI	BI	P3	P3	P3	P3	CGBI	RE: RCP	
118	PUMP/RISER	GONG	B2	B2	B2	B2	PI	PI	PI	PI	CGBI	RE: RCP	
119	BUILDING SERVICES	GONG	B2	B2	B2	B2	PI	PI	PI	PI	CGBI	RE: RCP	
L20	CORRIDOR	GONG	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
L21	CORRIDOR	GONG	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
L22	CORRIDOR	GONG	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
S1	STAIR	PW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
S2	STAIR	PW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
S3	STAIR	PW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
S4	STAIR	PW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
S5	STAIR	PW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
201-301	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
202-302	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
203-303	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
204-304	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS

1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI · TIMOTHY O. K. WILSON · NUMBER A-6972 · REGISTERED ARCHITECT

ROOM FINISH SCHEDULE

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

F1.1

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Feb 02,2019 11:04a.m

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE				WALLS				CEILING		REMARKS
			N	E	S	W	N	E	S	W	FINISH	HEIGHT	
205-305	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
206-306	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
207-307	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
208-308	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
209-309	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
210-310	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	PANTRY CLOSET	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET/LAUNDRY	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
211-311	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
212-312	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	COAT	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	MECHANICAL	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
213-313	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE				WALLS				CEILING		REMARKS
			N	E	S	W	N	E	S	W	FINISH	HEIGHT	
214-314	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
215-315	UNIT / ENTRY & HALL	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	KITCHEN	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LAUNDRY/MECH.	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	LIVING ROOM	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 1	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 1	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BEDROOM 2	VPF	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	CLOSET	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
	BATH 2	VT	BI	BI	BI	BI	PI	PI	PI	PI	CGBI	RE: RCP	
220-320	CORRIDOR	FW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
221-321	CORRIDOR	FW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	
222-332	CORRIDOR	FW	-	-	-	-	-	-	-	-	EXPW	RE: RCP	

MATERIAL SCHEDULE

KEY	MATERIAL	MANUFACTURER	PATTERN NO./COLOR	REMARKS	RE: SPEC SECTION
FLOORING					
LVP	VINYL PLANK FLOORING	PATCRAFT	TIMBER GROVE / TBD		096516
VT	VINYL TILE	PATCRAFT	LETTER PRESS / TBD		096516
CONC	CONCRETE				
FW	PLASTIC WOOD	TBD	TBD		061533
BASE					
B1	WOOD BASE	FMD	1/2" X 4" WITH 3/4" QUARTER ROUND SHOE PAINT P4		
B2	4" RUBBER COVE BASE	JOHNSONITE	TO BE DETERMINED		
WALLS					
	PAINT - WALLS	SHERWIN WILLIAMS	TO BE DETERMINED		099123
	PAINT - WALLS	SHERWIN WILLIAMS	TO BE DETERMINED		099123
P1	PAINT - WALLS	SHERWIN WILLIAMS	TO BE DETERMINED		099123
P2	PAINT - TRIM AND DOORS	SHERWIN WILLIAMS	TO BE DETERMINED		099123
P3	PAINT - CEILINGS	SHERWIN WILLIAMS	TO BE DETERMINED		099123
P5					
CEILINGS					
CGBI	CEILING - GYPSUM BOARD PAINT		PAINT P5		
EXPW	EXPOSED WOOD FRAMING				
CASEWORK					
WCI	CABINETS	GRANDVIEW INDUST.	OAKDALE / FINISH TO BE DETERMINED	1.	123530
PLCI	PLASTIC LAMINATE COUNTERTOPS	FORMICA OR WILSONART	TO BE DETERMINED	3.	123623.13
VCI	CULTURED MARBLE COUNTERTOPS	-	SOLID WHITE	2.	123661.13

REMARKS - MATERIAL SCHEDULE / ROOM FINISH SCEDULE

1. CABINET PULLS - AMEROCK CORP, STYLE BP52495610 OR APPROVED EQUAL.
2. CULTURED MARBLE COUNTERTOP W/ MATCHING INTEGRAL SINK & 4" BACKSPLASH. INCLUDE 4" SIDESPLASH. CAULK JOINTS W/ CLEAR SEALANT.
3. INCLUDE 4" MATCHING BACKSPLASH & SIDESPLASH AT WALLS.

GENERAL FINISH NOTES (GFN)

A. SEE REFLECTIED CEILING PLANS FOR FINISHES OF CEILINGS, BEAMS, ETC..
B. PREPARE ALL FLOORS AS REQUIRED FOR FLOOR FINISHES PER MANUFACTURER'S RECOMMENDATIONS.
C. GYPSUM BOARD FINISH TO BE A SMOOTH & EVEN "FLAT" FINISH ON ALL WALLS & CEILINGS.
D. WOOD TRIM & BASE: NEW PAINTED WOOD BASE & TRIM SHALL BE PINE, U.N.O..
E. PAINT ALL EXPOSED GYPSUM BOARD, METAL HANDRAILS, ETC.. UTILIZE PAINT TYPE PER MANUFACTURER'S RECOMMENDATION. DO NOT PAINT PREFINISHED METALS & OTHER ITEMS NOTED TO BE WITHOUT APPLIED FINISH. RE: DOOR SCHEDULE FOR DOOR & TRIM FINISHES.
F. PAINT EXPOSED ELECTRICAL WIRE MOLD & BOXES TO MATCH ADJACENT WALL COLOR. SAME AT SIMILAR ITEMS.
G. ALL FIXTURES, TOILET ACCESSORIES, HARDWARE, ETC. TO BE US26D (626) SATIN (BRUSHED) CHROME (OR COMPARABLE) FINISH, U.N.O..
H. ACCESS PANEL FRAMES & DOORS TO BE METAL TYPE, PAINTED FINISH. FIRE RATED TYPE WHERE REQUIRED IN RATED WALLS & CEILINGS.

LOW VOC / FORMALDEHYDE

A. INTERIOR PAINTS, PRIMERS, SEALERS & COATINGS TO COMPLY W/ GREEN SEAL STANDARDS FOR LOW VOC LIMITS.
B. INTERIOR ADHESIVES TO COMPLY W/ RULE 1168 OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. CAULKS & SEALANTS TO COMPLY W/ REGULATION 8, RULE 51 OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT.
C. INTERIOR COMPOSITE WOOD (PLYWOOD, OSB, MDF, CABINETRY, ETC.) TO BE CERTIFIED COMPLIANT W/ CALIFORNIA 93120, OR BE CERTIFIED FORMALDEHYDE-FREE COMPOSITE WOOD.
D. UTILIZE CURRENT STANDARDS LISTED ABOVE. LOW VOC REQUIREMENTS FOR ITEMS A, B & C ABOVE DO NOT APPLY TO SHOP FABRICATED ITEMS THAT ARE ALSO FINISHED IN THE SHOP.

GENERAL MATERIAL SCHEDULE NOTES

A. REFER TO FINISH PLANS FOR FLOOR PATTERNS, LAYOUTS, & LIMITS OF FLOORING.
B. REFER TO FINISH SCHEDULE FOR ACCENT COLOR & WALL TREATMENT LOCATIONS.
C. FLOOR FINISH TRANSITIONS: ALL ADA COMPLIANT, ALL METAL TRANSITIONS TO HAVE SATIN NICKEL FINISH.
   VINYL PLANK TO VINYL TILE: RUBBER TYPE
D. PAINTED WALLS & CEILINGS ARE GYPSUM BOARD, U.N.O..
E. SHERWIN WILLIAMS PAINTS ARE SELECTIED AS 'BASIS FOR DESIGN'. COLOR MATCHING THESE SELECTIONS W/ APPROVED PAINT VENDORS IS ALLOWABLE.
F. FLOORING MATERIALS WITHIN STAIR SHAFTS, EXIT PASSAGEWAYS & CORRIDORS SHALL COMPLY WITH DOC FF-1 "PILL TEST" (CPSC 16 CFR, PART 1630).
G. PAINTED & STAINED SURFACES TO HAVE THE FOLLOWING FINISH, U.N.O..
   CEILINGS: FLAT
   WALLS: EGGSHELL
   WOOD DOORS & TRIM: SEMI-GLOSS
   METAL DOORS & FRAMES: SEMI-GLOSS
   METAL: SEMI-GLOSS
H. APT UNIT & COMMUNITY ROOM KITCHENS TO INCLUDE THE FOLLOWING
   CABINETS: WCI
   COUNTERTOPS & BACKSPLASHES: PLCI
I. UNIT BATHROOMS TO INCLUDE THE FOLLOWING:
   CABINETS: WCI
   VANITY COUNTERTOPS: VCI

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI TIMOTHY O. K. WILSON NUMBER A-6972 REGISTERED ARCHITECT

MATERIAL SCHEDULE

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1817

F1.2

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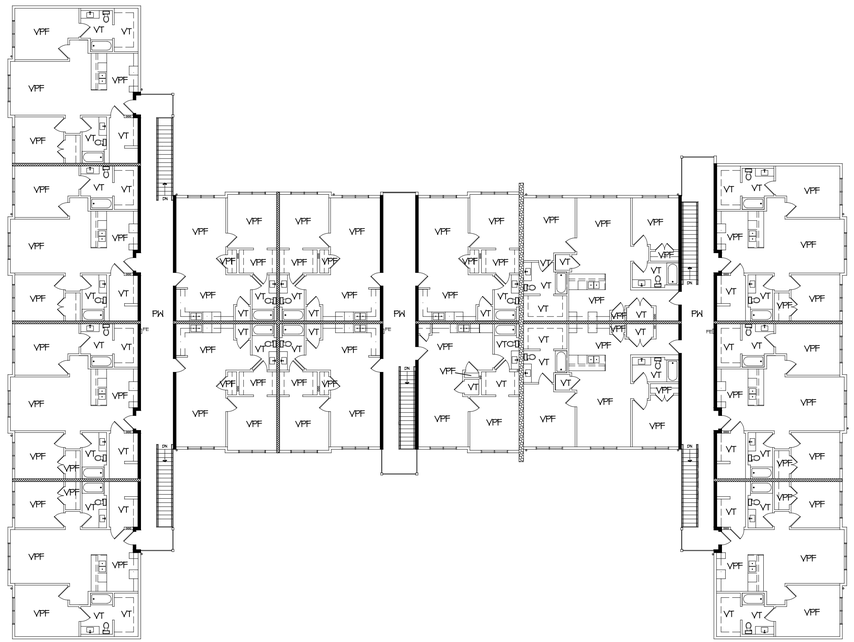
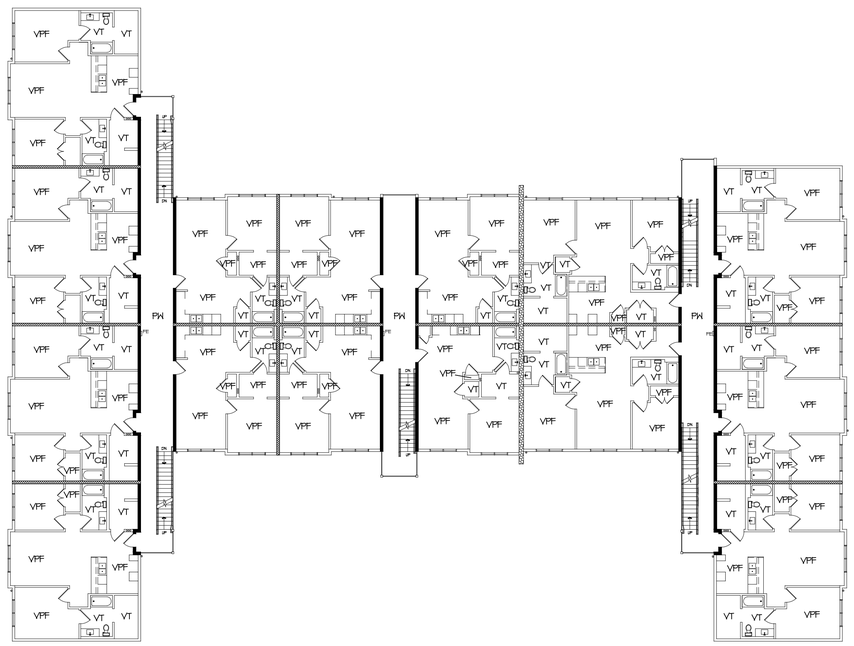
Feb 02,2019 11:05am



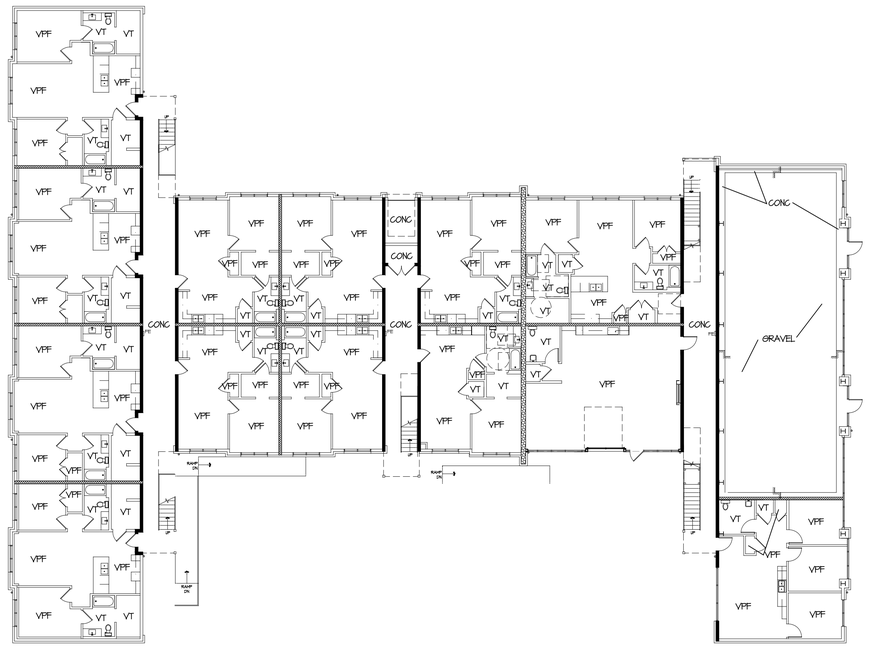
E8 3RD FLOOR PLAN
SCALE: 1/16" = 1'-0"

NORTH



A8 2ND FLOOR PLAN
SCALE: 1/16" = 1'-0"

NORTH



A2 1ST FLOOR PLAN
SCALE: 1/16" = 1'-0"

NORTH

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SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS

1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ARCHITECT - TIMOTHY O.K. WILSON
MO. LICENSE NO. A-6972

STATE OF MISSOURI
TIMOTHY O.K. WILSON
NUMBER A-6972
REGISTERED ARCHITECT

FLOOR FINISH PLANS

ISSUE DATE:
02.04.2019

REVISIONS:

PROJECT NO.: 1817

F2.1

GENERAL NOTES - STRUCTURAL

1. The contractor shall verify dimensions and conditions before construction and notify the engineer of any discrepancies, inconsistencies, or difficulties affecting the work before proceeding.

2. The contractor shall coordinate all disciplines, verifying size and location of all openings, whether shown on structural drawings or not, as called for on architectural, mechanical, or electrical drawings. Conflicts, inconsistencies, or other difficulties affecting structural work shall be called to the architect or engineer's attention for direction before proceeding.

3. All design and construction work for this project shall conform to the requirements of the 2012 International Building Code, as amended by the City of Springfield, MO.

4. These drawings are for this specific project and no other use is authorized.

5. Concrete:

   A. All concrete for foundations (walls, grade beams, footings) shall develop minimum ultimate compressive design strength of 3500 psi in 28 days, but not less than 500 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 6 gallons of water per 100 pounds of cement and not over 4 inches of slump.
   B. All concrete for interior flat work shall develop minimum ultimate compressive design strength of 4000 psi in 28 days, but not less than 525 pounds of cement shall be used per cubic yard of concrete regardless of strengths obtained, not over 5.75 gallons of water per 100 pounds of cement and not over 4 inches of slump. Concrete mix shop drawing shall contain testing data proving concrete design mix shrinkage is less than 0.03%% at 28 days when tested according to ASTM C157 (air drying method only).
   C. All concrete for exterior flatwork shall have a minimum design compressive strength of 4500 psi in 28 days, with not less than 560 pounds of cement per cubic yard of concrete, not over 5 gallons of water per 100 pounds of cement, with 6% +/- 1% air entrainment, and a maximum of 4 inches of slump.
   D. The preceding minimum mix requirements may have water-reducing admixtures conforming to ASTM C494 added to the mix at manufacturer's dosage rates for improved workability.
   E. The preceding minimum mix requirements may have up to 15% maximum of the cement content replaced with an approved ASTM C618 Class C fly ash, provided the total minimum cementitious content is not reduced.
   F. Combined aggregate (coarse plus fine) for all concrete shall be well graded from coarsest to finest with no more than 18 percent and not less than 8 percent retained on an individual sieve, except that less than 8 percent may be retained on coarsest sieve and on No. 50 and finer sieves. Submit this gradation report with the concrete mix design shop drawings.
   G. All interior concrete slabs on grade shall be placed over 15 mil, Class A Vapor Barrier per ASTM E1745 with less than 0.01 perms, tested after mandatory conditioning. All joints shall be lapped and sealed per manufacturer's recommendations. All penetrations, as well as damaged vapor barrier material shall also be sealed per manufacturer's recommendation prior to concrete placement. Install barrier per manufacturer recommended details at all discontinuous edges (at interior columns, exterior edge of slab, etc.) to ensure terms of warranty are followed. The vapor barrier shall be placed over free-draining granular material as prescribed by the project soils report.
   H. All concrete is reinforced concrete unless specifically called out as unreinforced. Reinforce all concrete not otherwise shown with same steel as in similar sections or areas. Any details not shown shall be detailed per ACI 315 and meet requirements of ACI 318, current editions.
   I. Control joints in dirt formed slab to be as shown on plans. Where not shown, limit controlled areas to not more than 144 square feet, or 12 feet on any side. Slab panel side ratio shall not exceed 1 1/2 to 1.
   J. Contractor shall verify that all concrete inserts, reinforcing and embedded items are correctly located and rigidly secured prior to concrete placement.
   K. Construction joints in beams, slabs, and grade beams shall occur at midspan (middle third) unless noted otherwise. Provide 2 x 4 horizontal keys at construction joints for shear transfer.
   L. No aluminum items shall be embedded in any concrete.

6. Reinforcing Steel:

   A. All reinforcing steel shall conform to the requirements of ASTM A615 or A706 grade 60 steel. Welded plain wire fabric shall be supplied in sheets and conform to the requirements of ASTM A185.
   B. Clear minimum coverage of concrete over reinforcing steel shall be as follows:

Concrete placed against earth	3"
Formed concrete against earth	2"
Slabs	1"
Beams or Columns	1-1/2"
Other	2"

   All coverage shall be nominal bar diameter minimum.
   C. All dowels shall be the same size and spacing as adjoining main bars (splice lap 48 bar diameters or 24" minimum unless noted otherwise).
   D. At corners of all walls, beams, and grade beams supply corner bars (minimum 2'-0" in each direction or 48 bar diameters) in outside face of wall, matching size and spacing of horizontal bars. Where there are no vertical bars in outside face of wall, supply 3 - #4 vertical support bars for corner bars.
   E. Bars marked continuous and all vertical steel shall be lapped 48 bar diameters (2'-0" minimum) at splices and embedments, unless shown otherwise. Splice top bars near midspan and splice bottom bars over supports, unless noted otherwise.
   F. At all holes in concrete walls and slabs, add 2 - #5 bars (opening dimension plus 48 diameters long) at each of four sides and add 2 - #5 x 5'-0" diagonally at each of four corners of hole. Openings in 8" thick walls are reinforced similar, but with 1 - #5 instead of 2 - #5, respectively.
   G. Unless otherwise covered on architectural plans or specifications, vertical control joints in concrete wall shall be spaced at a maximum of 20'-0" on center and coordinated with the architect. Every other horizontal wall reinforcing bar shall be discontinuous at control joints except heavy top and bottom bars unless noted otherwise. Provide base seal waterstop style number T72 by Greenstreak Inc. or approved equal) on dirt face side of wall at all walls below grade.
   H. Accessories shall be as specified in latest edition of the ACI Detailing Handbook and the concrete Reinforcing Steel Institute Design Handbook. Maximum accessory spacing shall be 4'-0" on center, and all accessories on exposed surfaces are to have plastic coated feet.
   I. All slabs and stairs not shown otherwise shall be 6" thick with #4 bars at 12" on center each way. All exterior porches and stoops not otherwise detailed may be constructed in any standard manner, solid or hollow, but must be reinforced with #4 bars at 12" on center each way minimum. Porches shall be doweled to adjacent walls or grade beams with #4 bars at 12" on center, hooked or embedded 48 diameters into both members. Slope porches 1/8" per foot for drainage unless noted otherwise.
   J. Allow 1/2 ton of reinforcing bars #4 or larger to be used as directed in the field for special conditions by the engineer of record (labor for placing same to be included).

7. Structural Steel:

   A. All structural steel beams and columns shall be ASTM A992, grade 50 steel and all miscellaneous steel shall be ASTM A36 grade steel (except at moment connections where plates shall be ASTM A992, grade 50). Hollow Structural Sections (HSS) shall be ASTM A500, grade B. Fabrication and erection shall be in accordance with AISC 303-05 &Code of Standard Practice for Steel Buildings and Bridges^ in the 13th Edition of the AISC Steel Construction Manual.
   B. All welding shall conform to the recommendations of the AWS.
   C. All exterior steel and connections, and brick relief angles shall be hot-dip galvanized.
   D. All bolts not otherwise specified shall be 3/4" diameter high strength (ASTM A325-N). All bolts shall be fully pretensioned. All beam connections shall be designed per the AISC Manual of Steel Construction "Framed Beam Connections" for the indicated reactions or at least 0.4 x beam total shear capacity, V=/Omega, shown in the Beam Properties of the maximum total uniform load tables, whichever is greater; and, shall account for eccentricity when the bolt line is more than 2" from the center of the support. All connections must be two bolt minimum. Connection design and shop drawing preparation shall be completed under the direct supervision of a professional engineer licensed in the state the project is located and shop drawings and connection calculations shall bear his seal.
   E. All anchor bolts shall be 3/4" diameter, ASTM F1554, Grade 36 unless noted otherwise.
   F. Allow 1 and 1/2 tons of miscellaneous structural steel to be used as directed in the field for special conditions by the structural engineer of record. Cost for shop drawings, fabrication, delivery, detailing, and erection to be included.

9. Post-installed Anchors:

   A. Post-installed anchors shall be used only where specified on the drawings unless approved in writing by the engineer of record. See drawings for anchor diameter, spacing and embedment. Performance values of the anchors shall be obtained for specified products using appropriate design procedures and/or standards as required by the governing building code. Anchors installed in concrete shall have an ICC-ES Evaluation Service Report. Special inspection is required for all post-installed anchors. The contractor shall coordinate an on-site meeting with the post-installed anchor manufacturer field representative to educate the construction team on the anchor installation guidelines and requirements.
   B. Mechanical anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ACI 355.2 and ICC-ES AC193. All anchors shall be installed per the anchor manufacturer's written instructions.
   C. Adhesive anchors used in cracked and uncracked concrete shall have been tested and qualified for use in accordance with ICC-ES AC308. All anchors shall be installed per the anchor manufacturer's written instructions.
   D. Mechanical anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC01. All anchors shall be installed per the anchor manufacturer's written instructions.
   E. Adhesive anchors used in solid grouted masonry shall have been tested and qualified for use in accordance with ICC-ES AC58. All anchors shall be installed per the anchor manufacturer's written instructions.
   F. Anchors used in hollon concrete masonry shall have been tested and qualified in accordance with ICC-ES AC106 or ICC-ES AC58 as appropriate. All anchors shall be installed per the anchor manufacturer's written instructions with appropriate screen tubes used for adhesives.

10. Foundations:

   A. The soil investigation was prepared by TSI Geotechnical, Inc. The report number is 20182062 and the telephone number is (816) 561-1165.
   B. Spread footings and grade beams are designed to bear on native soil or engineered fill (placed in accordance with the recommendations of the geotechnical report) capable of safely sustaining 1,500 psf.
   C. Contractor shall provide for dewatering at excavations from either surface water or seepage.
   D. All foundation excavations shall be inspected by a qualified soil engineer, approved by the architect and/or structural engineer, prior to placement of steel or concrete. This inspection shall be at the owner's expense.
   E. All concrete in the structural portion retaining the backfill shall have attained its design strength prior to being backfilled.
   F. Moisture content in soils beneath building locations should not be allowed to change after being excavations and after grading for slabs on grade are completed. If subgrade materials become desiccated or softened by water or other conditions, recompact materials to the density and water content specified for engineered fill. Do not place concrete on frozen ground.

11. Timber and Wood Framing:

   A. Quality and construction of wood framing members and their fasteners for load supporting purposes not otherwise indicated on the drawings shall be in accordance with the 2012 International Building Code.
   B. All studs and top and bottom plates shall be Douglas Fir No. 2 grade visually graded lumber, with an allowable fiber stress in bending of 900 psi minimum and an elastic modulus of 1,600,000 psi unless noted otherwise. All joist, truss members and headers to be No. 2 grade (min) (unless noted otherwise).
   C. Bridging of stud bearing walls and shear walls shall be solid, matching sheathing joints.
   D. Joist blocking and bridging shall be solid wood or cross bridging of either wood or metal straps. Spacing, in any case, shall not exceed 8'-0".
   E. Wood members and sheathing shall be fastened with number and size of fasteners not less than that set forth in Table 2304.9.1 of the 2012 International Building Code. Floor sheathing shall be APA rated tongue and groove Sturd-i-Floor, exposure 1, glued and nailed with 10d nails or #10 screws at 6" on center to supports at edges and 12" on center field. Sheathing of shear walls or roof diaphragms shall be edge nailed with 8d common nails at 6" on center and nailed to intermediate framing and/or blocking members with 8d common nails at 12" on center unless otherwise noted on the drawings.
   F. Sill plates shall be bolted to concrete slabs with 1/2" diameter bolts at 32" on center (UNO, Re: shearwall sched). Provide plate washers at sill plate anchors for shearwalls per shearwall sched. Plates in direct contact with concrete or masonry shall be treated lumber.
   G. All hangers, ties and connections shown are based on Simpson Strong Tie as the basis of design. Provide Simpson Strong Tie or an approved equal. Joist hangers shall be equal to "LUS" for wood application and "LB" for steel weld-on application. Roof truss ties shall be equal to "H2.5A" and tie the roof truss to the top plate (provide (2) "H2.5A" Diagonally across from each other when uplift load shown in truss shop submittal exceeds 600lbs). Roof girder ties shall be equal to a "LGT2", "LGT3" or "LGT4" tie (dependent on number of plies) and tie the truss girder to the top plate. Provide "H4" at the top of each stud to top track when the top track has roof truss attached.
   H. Service condition - dry with moisture content at or below 19% in service.
   I. Laminated strand lumber (LSL) shall have an allowable flexural stress (Fb) of 1,700 psi (reduced by size factor) and an elastic modulus (E) of 1,300,000 psi.
   J. Laminated veneer lumber (LVL) shall have an allowable flexural stress (Fb) of 2,800 psi (reduced by size factor) and an elastic modulus (E) of 1,900,000 psi.
   K. Parallel Strand Lumber (PSL) shall have an allowable flexural stress (Fb) of 2,900 psi (reduced by size factor) and an elastic modulus (E) of 2,000,000 psi. (E) = 2,200,000 psi for members > 18").
   L. Pre-engineered wood trusses shall be designed in accordance with the Truss Plate Institute's national design standard for metal-plate connected wood truss construction (ANSI/TPI-1 latest edition). Trusses shall be designed and manufactured by an authorized member of the Wood Truss Council of America (WTCA). Truss design shall conform to specified codes, allowable stress increases, deflection limitations and other applicable criteria of the governing code.
   M. Shop drawings showing complete erection and fabrication details and calculations (including connections) shall be submitted to the project architect / engineer for review prior to fabrication and/or erection. Calculations shall bear the seal of a professional engineer, registered in the state of the project location. Shop drawings shall also be submitted to the local government controlling agency when requested by that agency.
   N. All trusses shall be securely braced both during erection and permanently as indicated on the approved truss design drawings and in accordance with TPI's commentary and recommendations for handling, installing and bracing metal-plate connected wood trusses (HIB-91, booklet) and the latest edition of ANSI/TPI-1.
   O. The truss manufacturer shall supply all hardware and fasteners for joining truss members together and fastening truss members to their supports. Metal connector plates shall be manufactured by a member of the Wood Truss Council of America (WTCA) and shall be 20 gauge minimum. Connector plates shall meet or exceed ASTM A653, grade 33, with ASTM A924 galvanized coating designation 060.
   P. Shipment, handling, and erection of trusses shall be by experienced, qualified persons and shall be performed in a manner so as not to endanger life or property. Apparent truss damage shall be reported to the truss manufacturer for evaluation prior to erection. Cutting or alteration of trusses is not permitted.
   Q. Pre-engineered floor truss design load and deflection criteria are as follows:
      Top Chord Dead Load= 32 psf
      Top Chord Live Load= 40 psf (private)
      100 psf (public)
      Bottom Chord Dead Load= 10psf
      Allowable Total Load Deflection= L/360
      Allowable Live Load Deflection= L/480; 1/2" maximum
   R. Pre-engineered roof truss design load and deflection criteria are as follows:
      Top Chord Dead Load= 15 psf
      Top Chord Live Load (Typical) = 20 psf plus snow drift
      Top Chord Live Load (at Recessed Mechanical Wells) = 100 psf to account for mechanical equipment plus snow drift. Refer to roof framing plans.
      Bottom Chord Dead Load= 10 psf
      Include mechanical equipment loads as required (coordinate locations and sizes with MEP)
      Allowable Total Load Deflection= L/300
      Allowable Live Load Deflection= L/360

15. Wood Shrinkage Considerations:
(General Contractor to coordinate with all trades required).
   1.) All holes and notches for horizontal plumbing pipes are to be oversized to compensate for shrinkage.
   2.) Swing joints and flexible connections, offsets and expansion/contraction joints are to be utilized in the fabrication of pipes to allow for shrinkage.
   3.) Vents are to be installed with double flashing to permit movement.
   4.) Hangers for piping below upper floor are required to be adjusted several months after completion of construction.
   5.) Slip joints are required for all sheet metal vertical down-spouts, vents, etc. to compensate for shrinkage.
   6.) Rigid electrical conduit installed vertically should be provided with flexible joints to permit movement.
   7.) All roof drains are to be adjusted to the finished roof surface at the time of occupancy and also every year prior to rainy season.
   8.) Vertical mechanical and sprinkler systems are to be installed to compensate for wood shrinkage.
   9.) Plates should be fastened tight to precut studs to reduce compressive space between plate and stud to minimize any potential additional shortening of building walls.
   10.) All wood structural panels on walls are required to have a 1/8" relief gap at each floor level to relieve possible bulging.
   11.) At stucco construction install horizontal expansion joints, slip joint flashing, etc.
   12.) At brick veneer construction provide slip joints for flashing. Refer to architect's plans for flashing and clearances required between brick and wood structure at horizontal locations to compensate for wood shrinkage.
   13.) Delay window and door installation to allow wood framing to reach equilibrium moisture content (EMC). Also, allow 1/2" gap at window sills and a gap around pre-hung doors.
   14.) The application of all finish materials and installation of non-structural systems shall account for shrinkage of the wood framing.

T. Construction bracing shall be provided by the contractor as required to keep the building and studs plumb.

U. Structural members shall not be cut for pipes, etc., unless specifically detailed. Notching and boring of studs and top of plates shall conform to the provisions of section 2308.9.10 and 2308.9.11 of the IBC. Where top plates or sole plates are cut for pipes, a metal tension tie with minimum 0.058 inches thick and 1½" inches wide shall be fastened to each plate across and to each side of the opening with not less than (6) 16d nails, in accordance section 2308.9.8 of the IBC.

V. All fasteners for wood to wood connections and wood connectors shall be as indicated in structural drawings or manufacturer literature to achieve full capacity of connector. Alternate fasteners may be submitted as a substitution request. Submittal must show that alternative fasteners will not reduce the capacity of the connection.

13. Shop Drawing Revien:

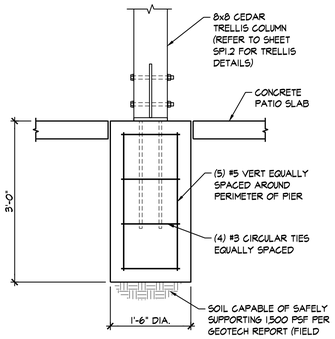
   A. Bob D. Campbell and Company, Inc. will review the General Contractor's (GC) shop drawings and related submittals (as indicated below) with respect to the ability of the detailed work, when complete, to be a properly functioning integral element of the overall structural system designed by Bob D. Campbell and Company, Inc.
   B. Prior to submittal of a shop drawing or any related material to Bob D. Campbell and Company, Inc., the GC shall:
      1) Review each submission for conformance with the means, methods, techniques, sequences and operations of construction and safety precautions and programs incidental thereto, all of which are the sole responsibility of the GC.
      2) Review and approve each submission.
      3) Stamp each submission as approved.
   C. Bob D. Campbell and Company, Inc. shall assume that no submission comprises a variation unless the GC advises Bob D. Campbell and Company, Inc. with written documentation.
   D. Shop drawings and related material (if any) required are indicated below. Should Bob D. Campbell and Company, Inc. require more than ten (10) working days to perform the review, Bob D. Campbell and Company, Inc. shall so notify the GC.
      1) Concrete mix designs and material certificates including admixtures and compounds applied to the concrete after placement.
      2) Reinforcing steel shop drawings including erection drawings and bending details. Bar list will not be reviewed for correct quantities.
      3) Elevations of all reinforced concrete masonry walls at a scale no smaller than 3/8" = 1'-0" showing all required reinforcing.
      4) Grout mix designs (for CMU)
      5) Construction and control joint plans and/or elevations.
      6) Structural steel shop drawings including erection drawings and piece details. Include miscellaneous framing specified on the structural drawings, but do not submit framing specified on non-structural drawings for Bob D. Campbell and Company, Inc. review.
      7) Structural steel connection design calculations.
      8) Miscellaneous anchors shown on the structural drawings.
      9) Wood truss design calculations and detailed erection and fabrication drawings. Standard stick framing shop drawings need not be submitted.
   E. Bob D. Campbell and Company, Inc. shall review shop drawings and related materials with comments provided that each submission has met the above requirements. Bob D. Campbell and Company, Inc. shall return without comment unrequired material or submissions without GC approval stamp.

14. Structural Special Inspection:

   A. The structural design for this project is based on completion of special inspections during construction in accordance with section 1704 of the 2012 International Building Code. The owner shall employ one or more qualified special inspectors to provide the required special inspections.
   B. Special Inspections shall be required for the items indicated below. The General Contractor shall provide notification to the inspector when items requiring inspection are ready to be inspected and provide access for those inspections.
      1) Placement of Concrete
      2) Testing of Concrete
      3) Bolts in Concrete
      5) Placement of Reinforcing Steel
      6) Verification of Soil Bearing Capacities
      7) High Strength Bolting
      8) Post-Installed Anchors
      9) Structural Welding
      10) Steel Frame Inspection
      11) Structural Masonry
      12) Shop Fabrication of Structural Steel
      13) Wood shear walls and holdowns
      14) Wood gravity framing and placement
   C. The special inspector shall furnish inspection reports to the building official, owner, architect and structural engineer, and any other designated person.
   D. All discrepancies shall be brought to the immediate attention of the contractor for correction, then, if uncorrected, to the proper design authority, building official and structural engineer.
   E. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans and specifications and the applicable workmanship provisions of the building code.

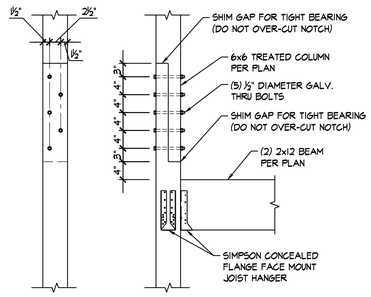
15. Copyright and Disclaimer:

   A. All drawings in the structural set (S-series drawings) are the copyrighted work of Bob D. Campbell and company, Inc. These drawings may not be photographed, traced, or copies in any manner without the written permission of Bob D. Campbell and Company, Inc. Exception: Original drawings may be printed for distribution to the owner, architect, and general contractor for coordination, bidding, and construction. Subcontractors may not reproduce these drawings for any purpose or in any manner.
   B. I, Christopher M. Boos, P.E., registered engineer and a representative of Bob D. Campbell and Company, Inc., do hereby accept professional responsibility as required by the professional registration laws of this state for the structural design drawings consisting of S-series drawings. I hereby disclaim responsibility for all other drawings in the construction document package, they being the responsibility of other design professionals whose seals and signed statements may appear elsewhere in the construction document package.



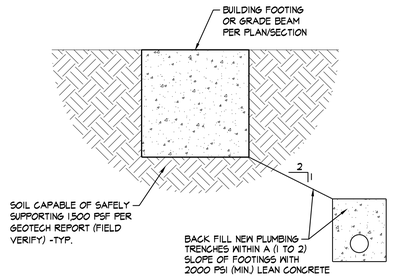
TYPICAL TRELLIS COLUMN FOOTING
(REFER TO SHEET SP1.2 FOR TRELLIS DETAILS)

SECTION 1/S0.1 — 3/4" = 1'-0"



TYPICAL WOOD COLUMN SPLICE DETAIL

SECTION 2/S0.1 — 3/4" = 1'-0"



TYPICAL UTILITY TRENCH DETAIL

SECTION 3/S0.1 — ½" = 1'-0"

STRUCTURAL DESIGN CRITERIA:

GOVERNING CODE: 2012 International Building Code

DESIGN LIVE LOADS:

• Roof	20 psf
• Floors (slab on grade)	100 psf
• Private Rooms & Corridors Serving Them	40 psf
• Public Rooms & Corridors Serving Them	100 psf

SNOW LOADING:

• Ground Snow Load	Pg = 20 psf
• Flat Roof Snow Load	Pf = 14 psf
• Snow Exposure Factor	Ce = 1.0
• Snow Load Importance Factor	Is = 1.0
• Thermal Factor	Ct = 1.0
• Drift per ASCE/SEI 7-10	

WIND LOADING:

Main Wind-force Resisting System (MWFRS):

• Ultimate Design Wind Speed	Vult = 115 mph
• Nominal Design Wind Speed	Vasd = 89 mph
• Risk Category	II
• Wind Load Importance Factor	Iw = 1.0
• Wind Exposure Category	C
• Internal Pressure Coefficient (Enclosed)	GCpi = +/-0.18

Components & Cladding:
- Design wind pressures to be used for the design of exterior component and cladding materials on the designated zones of wall and roof surfaces shall be per ASCE/SEI 7-10. Tabulated pressures shall be multiplied by effective area reduction factors, exposure adjustment factors, and topographic factors where applicable.

SEISMIC DESIGN REQUIREMENTS:
- Risk Category II
- Seismic Importance Factor Is = 1.0
- Spectral Response Acceleration Parameters:
  Sds = 0.091g
  Sd1 = 0.167g
- Site Class D
- Seismic Design Category C

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ARCHITECTURAL CORPORATION
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OF AUTHORITY NO. 000073

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1255 E. CHESTNUT
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STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

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Kansas City, MO 64111 www.bdc-engrs.com

SEAL
ENGINEER - CHRISTOPHER W. BOOS
MO. LICENSE NO. PE-2008023332

STRUCTURAL GENERAL NOTES

ISSUE DATE:
2.4.2019

REVISIONS:

PROJECT NO.: 1817

S0.1

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HEADER SCHEDULE

TYPE	HEADER SIZE	BEARING STUDS BELOW EACH END OF HEADER	CONTINUOUS JAMB STUDS AT EACH END	REMARKS
A1	(3) 2x10's w/ (2) ½" PLYWOOD SPACERS	(1) 2x6	(2) 2x6	RE: SECTION 1/SO.3
B1	(3) 2x10's w/ (2) ½" PLYWOOD SPACERS	(1) 2x6	(2) 2x6	RE: SECTION 1/SO.3
A2	(3) 2x10's w/ (2) ½" PLYWOOD SPACERS	(2) 2x6	(2) 2x6	RE: SECTION 1/SO.3
B2	(3) 2x10's w/ (2) ½" PLYWOOD SPACERS	(2) 2x6	(2) 2x6	RE: SECTION 1/SO.3
A3	(3) 2x10's w/ (2) ½" PLYWOOD SPACERS	(2) 2x6	(2) 2x6	RE: SECTION 1/SO.3
B3	(3) 2x10's w/ (2) ½" PLYWOOD SPACERS	(2) 2x6	(2) 2x6	RE: SECTION 1/SO.3

STUD BEARING WALL SCHEDULE

LOCATION	STUD SIZE & SPACING
1st FLOOR EXTERIOR WALLS	(2) 2x6 @16"oc
1st FLOOR INTERIOR WALLS	(2) 2x6 @16"oc
2nd FLOOR EXTERIOR WALLS	2x6 @16"oc
2nd FLOOR INTERIOR WALLS	2x6 @16"oc
3rd FLOOR EXTERIOR WALLS	2x6 @16"oc
3rd FLOOR INTERIOR WALLS	2x6 @16"oc

NOTES:
1. UNLESS NOTED OTHERWISE, PROVIDE STUD PACKS AT ALL GIRDER TRUSS BEARING LOCATIONS. QUANTITY OF STUDS SHALL BE 3 STUDS MINIMUM PLUS ONE ADDITIONAL STUD FOR EACH PLY OF GIRDER TRUSS. REFER TO SECTION 6/SO.3. STUD PACKS SHALL BE ALIGNED & PROVIDED AT EACH LEVEL OF 3-STORY STRUCTURE TO TRANSFER LOAD TO THE FOUNDATION.
2. PROVIDE SQUASH BLOCKS (ALIGNED WITH WALL STUDS ABOVE & BELOW) WITHIN THE DEPTH OF THE FLOOR FRAMING TO TRANSFER STUD LOADS TO THE WALL BELOW, WHERE SUPPORT IS NOT OTHERWISE PROVIDED (TYPICAL).
3. WALL STUDS AT DOUBLE-HEIGHT SPACES THAT ARE NOT BRACED BY THE FLOOR OR BY A HORIZONTAL GIRT AT THE FLOOR LEVEL SHALL BE 1½" x 7¼" TIMBERSTRAND LSL STUDS UNLESS NOTED OTHERWISE.

WALL SHEATHING SCHEDULE

LOCATION	SHEATHING	FASTENER SPACING	
		PANEL EDGE	FIELD
EXTERIOR WALL (EXTERIOR SIDE) U.N.O. PER SHEAR WALL SCHEDULE	7/16" OSB	8d COMMON NAILS @4"oc	8d COMMON NAILS @12"oc
EXTERIOR WALL (INTERIOR SIDE) U.N.O. PER SHEAR WALL SCHEDULE	5/8" GYPSUM BOARD	6d COOLER NAILS @4"oc	6d COOLER NAILS @7"oc
TYP. INTERIOR WALL U.N.O. PER SHEAR WALL SCHEDULE	5/8" GYPSUM BOARD	6d COOLER NAILS @4"oc	6d COOLER NAILS @7"oc

NOTES:
1. REFER TO SHEAR WALL SCHEDULE FOR SHEATHING OF SHEAR WALLS.
2. ALL PANEL JOINTS ARE TO BE FULLY BLOCKED.

FLOOR & ROOF DECK SCHEDULE

LOCATION	DECKING	FASTENER SPACING	
		PANEL EDGE	FIELD
TYPICAL ROOF DECK	19/32" OSB	10d COMMON NAILS @6"oc	10d COMMON NAILS @12"oc
FLOOR DECK	¾" T&G PLYWOOD	10d RING SHANK NAILS @6"oc (GLUED & NAILED)	10d RING SHANK NAILS @12"oc (GLUED & NAILED)

FOOTING SCHEDULE

FOOTING TYPE	FOOTING SIZE (FT.) x THICKNESS (IN.)	REINFORCING (EACH WAY)
3.0	3'-0"x3'-0"x36" Dp	#4@6"oc (TOP & BOT)
5.0	5'-0"x5'-0"x32" Dp	#4@6"oc (TOP & BOT)
6.0	6'-0"x6'-0"x32" Dp	#5@6"oc (TOP & BOT)

NOTES:
1. SPREAD FOOTINGS SHALL BE POURED MONOLITHIC w/ GRADE BEAMS & CONTINUOUS WALL FOOTINGS. REINFORCING FOR GRADE BEAMS & CONTINUOUS WALL FOOTINGS SHALL BE CONTINUOUS THROUGH SPREAD FOOTINGS.

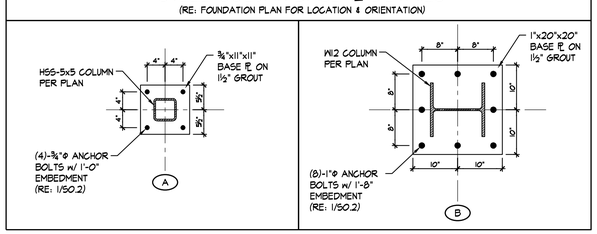
NAILING SCHEDULE (REFER TO NOTES #1 and #2)

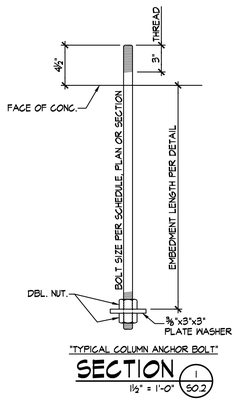
CONNECTION	ATTACHMENTS (REF NOTE #3 and #4)	
JOIST TO SILL OR GIRDER	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
BRIDGING TO JOIST	2- 3" x 0.131" NAILS-TOENAIL EACH END	2-8d NAILS-TOENAIL EACH END
SOLE PLATE TO JOIST OR BLOCKING	3" x 0.131" NAILS AT 8"o.c.-TYPICAL FACE NAIL 4-3" x 0.131" NAILS AT 16"o.c.-BRACED WALL PANELS	16d BOX NAILSZ AT 16"o.c. MAX. FACE NAILING 3-16d BOX NAILS AT 16"o.c. BRACED WALL PANEL
TOP PLATE TO STUD	3- 3" x 0.131" NAILS-END NAIL	2-16d NAILS-END NAIL
STUD TO SOLE PLATE	4- 3" x 0.131" NAILS-TOENAIL OR 3- 3" x 0.131" NAILS-END NAIL	4-8d NAILS-TOENAIL OR 2-16d NAILS-END NAIL
DOUBLE STUDS	3" x 0.131" NAILS AT 8"o.c.-FACE NAIL	16d BOX NAILS AT 24"o.c. MAX. FACE NAIL
DOUBLED TOP PLATES	3" x 0.131" NAILS AT 12"o.c.-FACE NAIL	16d BOX NAILS AT 16"o.c. MAX. FACE NAIL
DOUBLE TOP PLATE LAPS AND INTERSECTIONS	12-3" x 0.131" NAILS	8-16d NAILS
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE	3-3" x 0.131" NAILS -TOENAIL	3-8d NAILS-TOENAIL
RIM JOIST TO TOP PLATE	3" x 0.131" NAILS AT 6"o.c.-TOENAIL	8d NAILS AT 6"o.c. MAX.-TOENAIL
TOP PLATE LAPS AND INTERSECTIONS	3- 3" x 0.131" NAILS-FACE NAIL	2-16d NAILS-FACE NAIL
CONTINUOUS HEADER, TWO PIECES	3" x 0.131" NAILS AT 10"o.c. ALONG EACH EDGE	16d NAILS AT 16"o.c. MAX. ALONG EACH EDGE-TOENAIL
CEILING JOISTS TO PLATE	5- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
CONTINUOUS HEADER TO STUD	4- 3" x 0.131" NAILS-TOENAIL	4-8d NAILS-TOENAIL
CEILING JOISTS, LAPS OVER PARTITIONS	4- 3" x 0.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL
CEILING JOISTS TO PARALLEL RAFTERS	4- 3" x 0.131" NAILS-FACE NAIL	3-16d NAILS-FACE NAIL
RAFTER TO PLATE	3- 3" x 0.131" NAILS-TOENAIL	3-8d NAILS-TOENAIL
1" BRACE TO EACH STUD AND PLATE	2- 3" x 0.131" NAILS-FACE NAIL	2-8d NAILS-FACE NAIL
BUILT-UP CORNER AND MULTIPLE STUDS	3" x 0.131" NAILS AT 16"o.c.	16d NAILS AT 24"o.c. MAX.
BUILT-UP GIRDER AND BEAMS	3" x 0.131" NAILS AT 24"o.c. FACE NAILED TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES 3- 3" x 0.131" NAILS AT ENDS AND EACH SPLICE	20d NAILS AT 32"o.c. MAX. TOP AND BOTTOM, STAGGERED ON OPPSITE SIDES. 2-20d NAILS AT ENDS AND EACH SPLICE
BUILT-UP LAMINATED VENEER LUMBER BEAMS	3" x 0.131" NAILS AT 6"o.c. TOP AND BOTTOM ALONG EDGE	16d NAILS AT 12"o.c. TOP AND BOTTOM ALONG EDGE
2" PLANKING	4- 3" x 0.131" NAILS AT EACH SUPPORT	16d NAILS AT EACH SUPPORT

NOTES:
1.) ALL NAILS SHALL BE AS NOTED UNLESS OTHERWISE SPECIFIED ON STRUCTURAL DRAWINGS OR ALTERNATE PROVIDED BY ENGINEER IN WRITING.
2.) CONDITIONS NOT SPECIFIED SHALL BE IN ACCORDANCE WITH CURRENT INTERNATIONAL BUILDING CODE.
3.) NAILING DESIGNATION:
4 - 3" x 0.131" NAILS
- 4 = QUANTITY
- 3" = NAIL LENGTH
- 0.131" = DIAMETER IN INCHES

4.) ALL NAILS NOTED AS 8d, 10d, 16d, ETC. SHALL BE COMMON NAILS UNLESS NOTED BOX.

STEEL COLUMN BASE PL DETAILS
(RE: FOUNDATION PLAN FOR LOCATION & ORIENTATION)





"TYPICAL COLUMN ANCHOR BOLT"

SECTION 1/SO.2
1½" = 1'-0"

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SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

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STATE OF MISSOURI · CHRISTOPHER W. BOOS · NUMBER PE-2008023332 · PROFESSIONAL ENGINEER
2-4-19

SCHEDULES

ISSUE DATE:
2.4.2019
REVISIONS:

PROJECT NO.: 1817

SO.2

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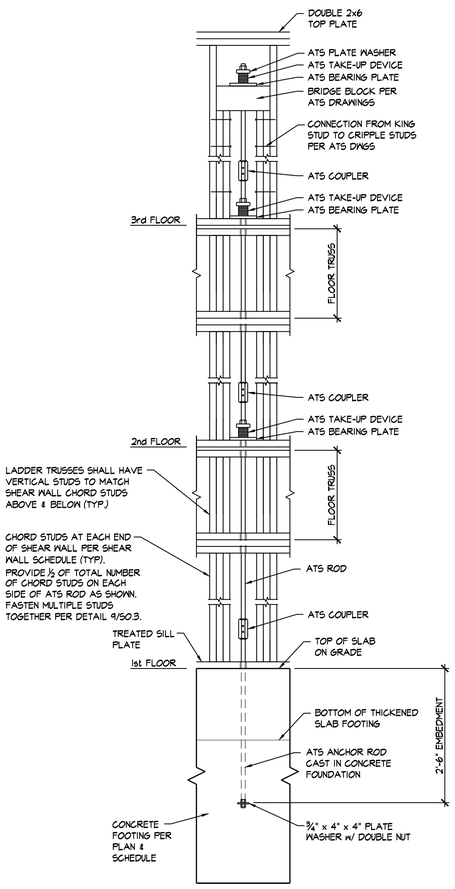

TYPICAL ANCHOR TIEDOWN SYSTEM DETAIL AT EACH END OF SHEAR WALLS
REFER TO PLANS FOR SHEAR WALL LOCATIONS AND TO SHEAR WALL SCHEDULE FOR ADDITIONAL INFORMATION.

ELEVATION 1 S0.3
¾"=1'-0"

ANCHOR TIEDOWN SYSTEM GENERAL NOTES

1. SIMPSON STRONG-TIE SHALL PROVIDE THE ANCHOR TIEDOWN SYSTEM TO MEET THE DESIGN FORCES AND ELONGATION LIMITS PROVIDED. ATS DRAWINGS AND CALCULATIONS SHALL BE PROVIDED FOR REVIEW AND APPROVAL.
2. SHEAR WALLS SHALL BE SUPPORTED WITH A BEARING PLATE AND NUT AT EVERY STORY LEVEL. SKIPPING SHEAR WALL OVERTURNING RESTRAINT AT ANY LEVEL IS NOT PERMITTED.
3. SHRINKAGE COMPENSATION DEVICES SHALL BE USED TO ACCOUNT FOR THE SHRINKAGE AT EACH LEVEL.
4. ANCHOR BOLTS SHALL NOT BE IN CONTACT WITH PRESSURE TREATED WOOD (PTW). PTW PLATES SHALL HAVE OVERSIZE HOLES ¼ INCH MINIMUM AND 3/8 INCH MAXIMUM LARGER THAN ROD SIZE. AS AN ALTERNATE, THE ANCHOR SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653.
5. DO NOT WELD PRODUCTS UNLESS THESE DRAWINGS SPECIFICALLY IDENTIFY A PRODUCT AS ACCEPTABLE FOR WELDING, OR UNLESS SPECIFIC APPROVAL FOR WELDING IS PROVIDED BY SIMPSON STRONG-TIE. SOME STEELS HAVE POOR WELDABILITY AND A TENDENCY TO CRACK WHEN WELDED. CRACKED STEEL WILL NOT CARRY LOAD AND MUST BE REPLACED. NUTS AND COUPLER SHALL NOT BE WELDED.
6. IN THE EVENT OF A DISCREPANCY BETWEEN THESE STRUCTURAL DRAWINGS AND THE ATS DRAWINGS, THE STRUCTURAL DRAWINGS ALWAYS GOVERN.
7. THESE DRAWINGS ARE SPECIFIC TO ATS AND ARE NOT APPLICABLE TO OTHER MANUFACTURER TIEDOWN SYSTEMS. CONTRACTOR'S PROPOSED SUBSTITUTION OF OTHER MANUFACTURER'S CONNECTORS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER AND BUILDING JURISDICTION FOR REVIEW AND WRITTEN APPROVAL PRIOR TO ORDERING AT THE EXPENSE OF THE CONTRACTOR. REQUESTS FOR SUBSTITUTION SHALL INCLUDE CURRENT ICC-ES EVALUATION REPORTS AND A LIST STATING THE PROPOSED ITEM-FOR-ITEM SUBSTITUTION HAS EQUIVALENT OR GREATER LOAD CAPACITY AND DEFLECTION LIMITATION. IN ADDITION, SUBSTITUTIONS SHALL COMPLY WITH CURRENT ICC-ES ACCEPTANCE CRITERIA FOR SHRINKAGE COMPENSATING DEVICES (AC316).
8. A PRE-CONSTRUCTION MEETING IS RECOMMENDED WITH SIMPSON STRONG-TIE PRIOR TO PLACEMENT OF THE CONCRETE TO ASSIST IN THE INSTALLATION PROCESS AND VERIFY QUANTITIES. TO COORDINATE THIS MEETING, CALL SIMPSON SALES AT 800-999-5099.

SHEAR WALL SCHEDULE

SHEAR WALL TYPE (PER PLAN)	SHEATHING & ATTACHMENT: 1st FLOOR WALL SHEATHING	2nd FLOOR WALL SHEATHING	3rd FLOOR WALL SHEATHING	CHORD STUDS (EACH END)	ANCHOR TIEDOWN SYSTEM (EACH END)	CUMULATIVE TENSION / COMPRESSION LOAD AT EACH END OF SHEAR WALL (kips)
A	⅜" OSB ONE SIDE: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 13 kips C = 13 kips
B	⅜" OSB BOTH SIDES: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB BOTH SIDES: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB BOTH SIDES: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(8) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 27 kips C = 27 kips
C	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 5 kips C = 5 kips
D	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 5 kips C = 5 kips
E	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 5 kips C = 5 kips
F	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 5 kips C = 5 kips
G	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 7 kips C = 7 kips
H	⅜" OSB BOTH SIDES: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB BOTH SIDES: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB BOTH SIDES: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 7 kips C = 7 kips
J	⅜" OSB ONE SIDE: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 10 kips C = 10 kips
K	5/8" GYP ONE SIDE: 6d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	5/8" GYP ONE SIDE: 6d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	5/8" GYP ONE SIDE: 6d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x4's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 5 kips C = 5 kips
L	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 7 kips C = 7 kips
M	⅜" OSB ONE SIDE: 10d NAILS @3"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @3"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(8) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 27 kips C = 27 kips
N	⅜" OSB ONE SIDE: 10d NAILS @3"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @3"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(8) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 27 kips C = 27 kips
O	⅜" OSB ONE SIDE: 10d NAILS @3"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @3"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(8) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 27 kips C = 27 kips
P	⅜" OSB ONE SIDE: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 12 kips C = 12 kips
Q	⅜" OSB ONE SIDE: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB ONE SIDE: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(4) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3	T = 7 kips C = 7 kips
R		⅜" OSB BOTH SIDES: 10d NAILS @4"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	⅜" OSB BOTH SIDES: 10d NAILS @6"oc AT PANEL EDGES, @12"oc TO INTERMEDIATE FRAMING	(8) 2x6's (RE: SECTION 1/S0.3)	SIMPSON STRONG-TIE ATS PER SECTION 1/S0.3 & T/S3.1	T = 27 kips C = 27 kips

NOTES:
1. ALL SHEATHING SHALL BE FULLY BLOCKED. PROVIDE 2x BLOCKING BETWEEN STUDS AS REQUIRED TO ACHIEVE FASTENER SPACING AT PANEL EDGES.

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ENGINEER - CHRISTOPHER W. BOOS
MO. LICENSE NO. PE-2008023332

STATE OF MISSOURI · CHRISTOPHER W. BOOS · NUMBER PE-2008023332 · PROFESSIONAL ENGINEER
2-4-19

SHEAR WALL SCHEDULE

ISSUE DATE:
2.4.2019
REVISIONS:

PROJECT NO.: 1817

S0.3

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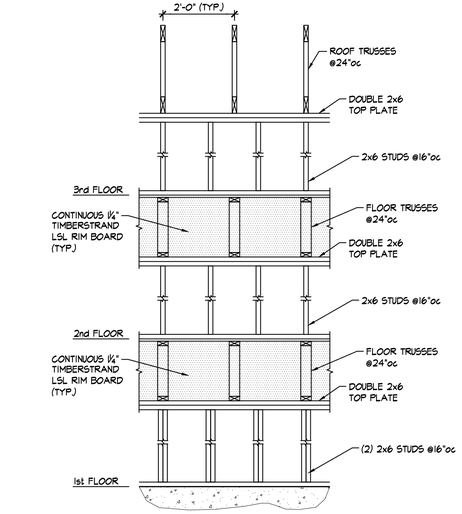
Feb 01,2019 10:45am

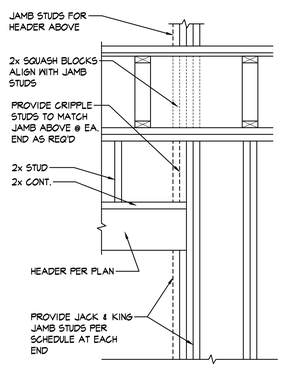


TYPICAL LOAD-BEARING WALL FRAMING AT 3-STORY INDEPENDENT LIVING

ELEVATION A / S0.3

½"=1'-0"

NOTES:
1. ALIGN WALL STUDS W/ TRUSSES AS INDICATED.
2. PROVIDE 2x4 SQUASH BLOCKS WITHIN THE FLOOR FRAMING, DIRECTLY BELOW JAMB STUDS AT WALL OPENINGS AND BELOW MULTIPLE-STUD COLUMN STUD PACKS FOR LOAD TRANSFER THROUGH THE FLOOR (TYPICAL). SQUASH BLOCK STUD QUANTITY SHALL MATCH QUANTITY OF MULTIPLE STUDS AT JAMBS AND STUD PACKS.

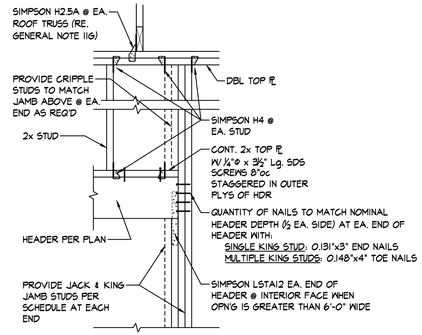


TYPICAL HEADER DETAIL

1. REFER TO PLAN & SCHEDULE FOR LOCATIONS & SIZES.
2. REFER TO SECTION 1A/S0.3 FOR TYPICAL HEADER DETAIL AT ROOF TRUSS BEARING LOCATIONS.
3. REFER TO SECTION 1B/S0.3 FOR TYPICAL HEADER DETAIL AT ROOF TRUSS BEARING LOCATIONS W/ HEADER DIRECTLY BELOW DOUBLE TOP PLATE.

SECTION 1 / S0.3

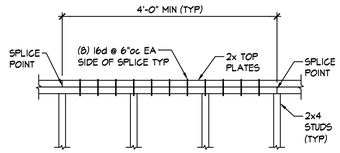
¾" = 1'-0"



TYPICAL HEADER DETAIL AT ROOF TRUSS BEARING LOCATIONS

SECTION 1A / S0.3

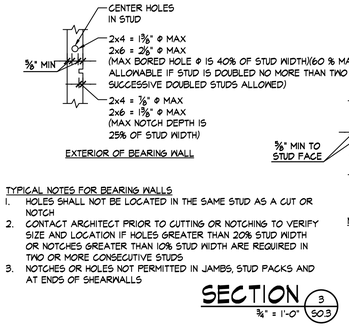
¾" = 1'-0"



TYPICAL TOP PLATE SPLICE

SECTION 2 / S0.3

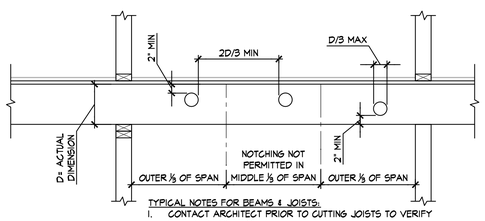
¾" = 1'-0"



TYPICAL NOTES FOR BEARING WALLS
1. HOLES SHALL NOT BE LOCATED IN THE SAME STUD AS A CUT OR NOTCH
2. CONTACT ARCHITECT PRIOR TO CUTTING OR NOTCHING TO VERIFY SIZE AND LOCATION IF HOLES GREATER THAN 20% STUD WIDTH OR NOTCHES GREATER THAN 10% STUD WIDTH ARE REQUIRED IN TWO OR MORE CONSECUTIVE STUDS
3. NOTCHES OR HOLES NOT PERMITTED IN JAMBS, STUD PACKS AND AT ENDS OF SHEARWALLS

SECTION 3 / S0.3

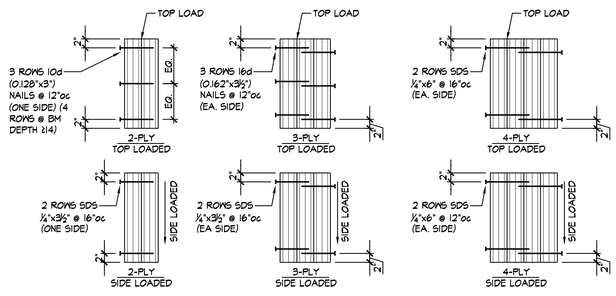
¾" = 1'-0"



TYPICAL NOTES FOR BEAMS & JOISTS:
1. CONTACT ARCHITECT PRIOR TO CUTTING JOISTS TO VERIFY SIZE AND LOCATION
2. DETAIL APPLIES TO DIMENSIONAL LUMBER FRAMING ONLY. REFER TO ENGINEERED OR COMPOSITE LUMBER MANUFACTURER'S RECOMMENDATIONS AT PSLs, LVLs, LSLs & GLULAM

SECTION 4 / S0.3

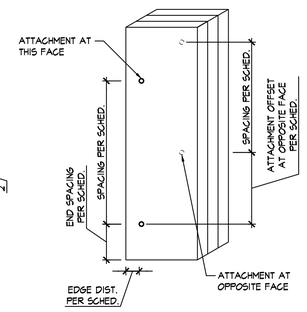
¾" = 1'-0"



TYPICAL CONNECTION OF MULTIPLE PLY LVL BEAMS
PARALLAMS ARE TO BE FULL WIDTH.

SECTION 5 / S0.3

¾" = 1'-0"



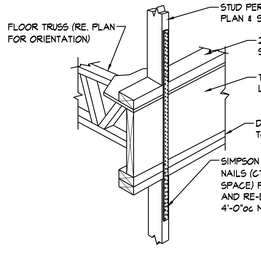
TYPICAL MULTI-PLY STUD CONNECTION 6 / S0.3

1½" = 1'-0"

BUILT-UP STUD PACK ATTACHMENT SCHEDULE

NUMBER OF PLIES	ATTACHMENT AT COLUMN STUD PACKS SUPPORTING BEAMS	ATTACHMENT AT WALL STUD PACKS SUPPORTING TRUSSES
2-PLY MEMBERS	8d NAILS AT 12"oc, 1" FROM EDGE, W/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc W/ FIRST NAIL 2" FROM EA. END	8d NAILS AT 12"oc, 1" FROM EDGE, W/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc W/ FIRST NAIL 2" FROM EA. END
3-PLY MEMBERS	20d NAILS AT 16"oc, 1 1/2" FROM EDGE W/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 8", @ 16"oc W/ FIRST NAIL 3" FROM EA. END	8d NAILS AT 12"oc, 1" FROM EDGE, W/ OPPOSITE EDGE NAILED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc W/ FIRST NAIL 2" FROM EA. END
4-PLY MEMBERS	1/4"Øx3" SIMPSON SDS SCREWS AT 16"oc, 1 1/2" FROM EDGE W/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 8", @ 16"oc W/ FIRST SCREW 4" FROM EA. END	3 PLIES ATTACHED PER 3-PLY ATTACHMENT WITH 4TH PLY ATTACHED WITH 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROWS 6"
5-PLY MEMBERS	1/4"Øx6" SIMPSON SDS SCREWS AT 12"oc, 1 1/2" FROM EDGE W/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc W/ FIRST SCREW 4" FROM EA. END	3 PLIES ATTACHED PER 3-PLY ATTACHMENT WITH 4TH & 5TH PLY ATTACHED AT OPPOSITE SIDES WITH 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROWS 6"
6-PLY MEMBERS	1/4"Øx8" SIMPSON SDS SCREWS AT 12"oc, 1 1/2" FROM EDGE W/ OPPOSITE EDGE SCREWED FROM OPPOSITE SIDE OFFSET 6", @ 12"oc W/ FIRST SCREW 4" FROM EA. END	3-PLIES ATTACHED PER 3-PLY ATTACHMENT WITH 4TH PLY ATTACHED WITH 8d NAILS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROWS 6" AND 5TH AND 6TH PLIES ATTACHED WITH 1/4"Øx5" SIMPSON SDS SCREWS AT 12"oc IN 2 ROWS, 1 1/2" FROM EDGE, OFFSET ROWS 6"oc W/ FIRST SCREW 4" FROM EA. END

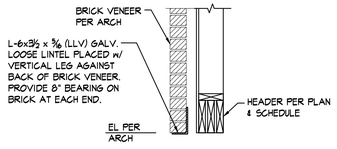
NOTES:
1. ALL BUILT-UP STUD PACKS MUST ALIGN FLOOR-TO-FLOOR WITH SOLID BLOCKING (SQUASH BLOCKS) AT FLOOR CAVITIES.
2. EXTEND ALL STUD PACKS TO COLUMNS UNLESS NOTED OTHERWISE.
3. ALL NAILS ARE COMMON NAILS UNLESS NOTED OTHERWISE.



TYPICAL COIL STRAP @ BUILDING EXTERIOR

DETAIL 7 / S0.3

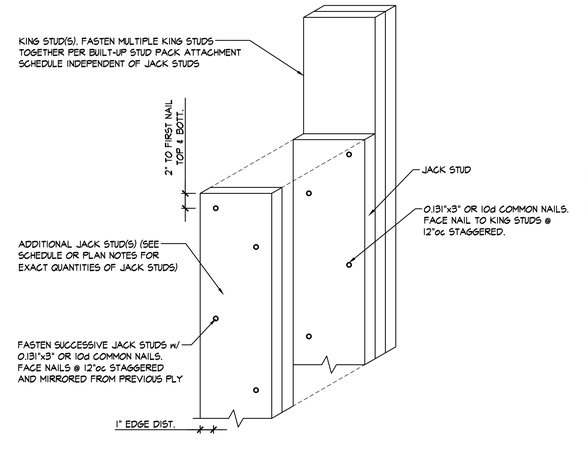
¾" = 1'-0"



TYPICAL LOOSE LINTEL DETAIL (7'-4" MAX. SPAN)

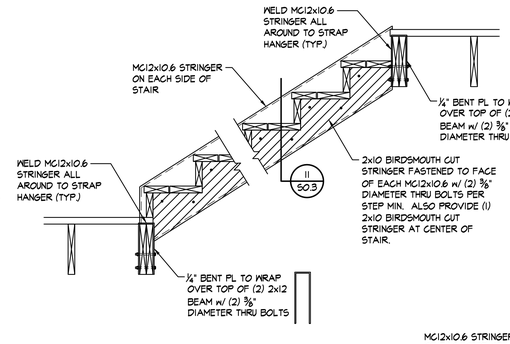
SECTION 8 / S0.3

¾" = 1'-0"



TYPICAL JACK STUD ATTACHMENT 9 / S0.3

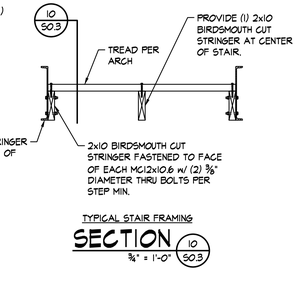
1½" = 1'-0"



TYPICAL STAIR FRAMING

SECTION 11 / S0.3

¾" = 1'-0"



TYPICAL STAIR FRAMING

SECTION 10 / S0.3

¾" = 1'-0"

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TYPICAL SECTIONS

ISSUE DATE:
2.4.2019
REVISIONS:

PROJECT NO.: 1817

S0.4

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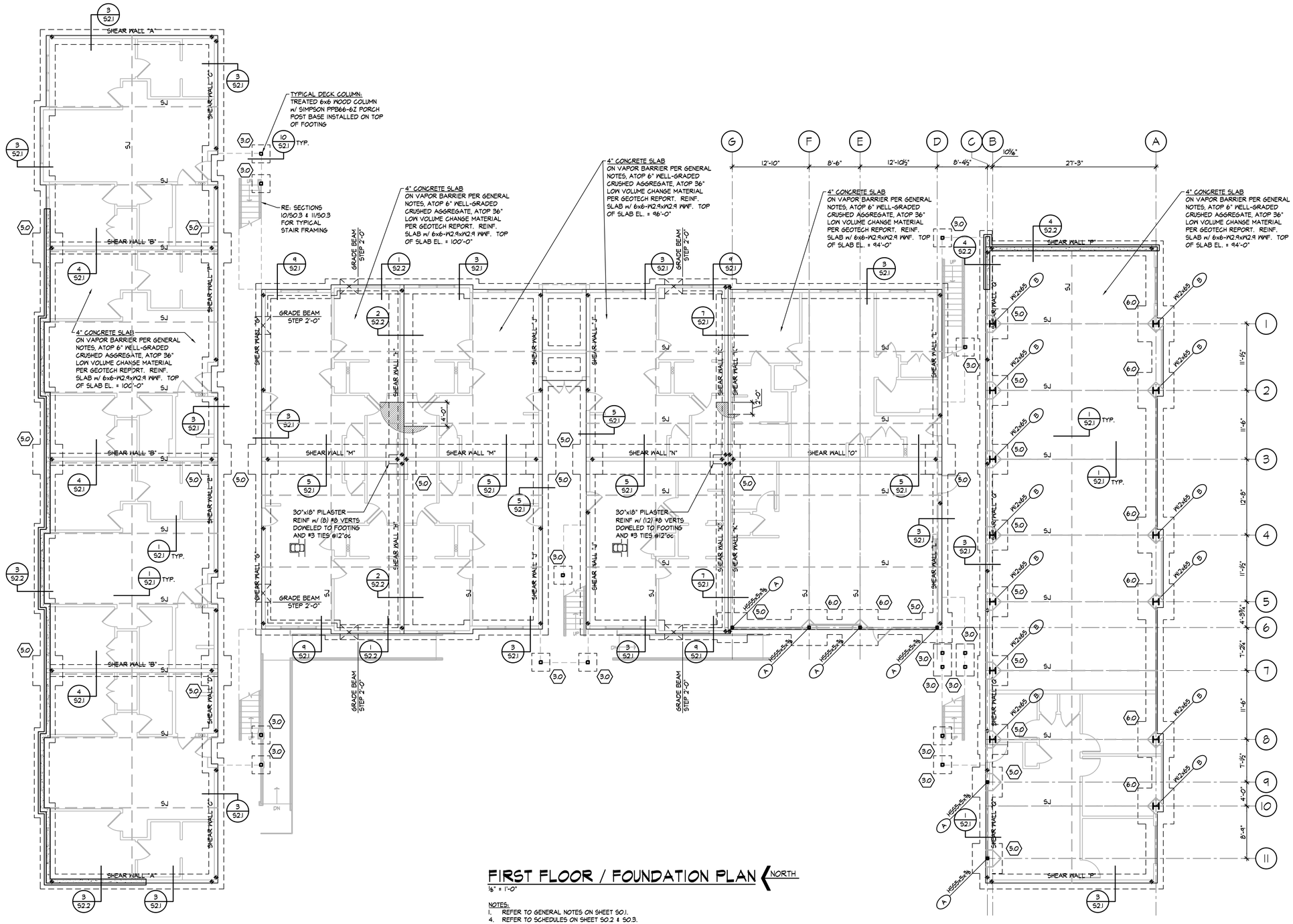

FIRST FLOOR / FOUNDATION PLAN

NORTH

⅛" = 1'-0"

NOTES:
1. REFER TO GENERAL NOTES ON SHEET S0.1.
4. REFER TO SCHEDULES ON SHEET S0.2 & S0.3.
5. REFER TO TYPICAL DETAILS ON SHEET S0.4.
6. VERIFY ALL DIMENSIONS & ELEVATIONS W/ ARCHITECTURAL DRAWINGS.

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FIRST FLOOR
FOUNDATION PLAN

ISSUE DATE:
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REVISIONS:

PROJECT NO.: 1817

S1.1

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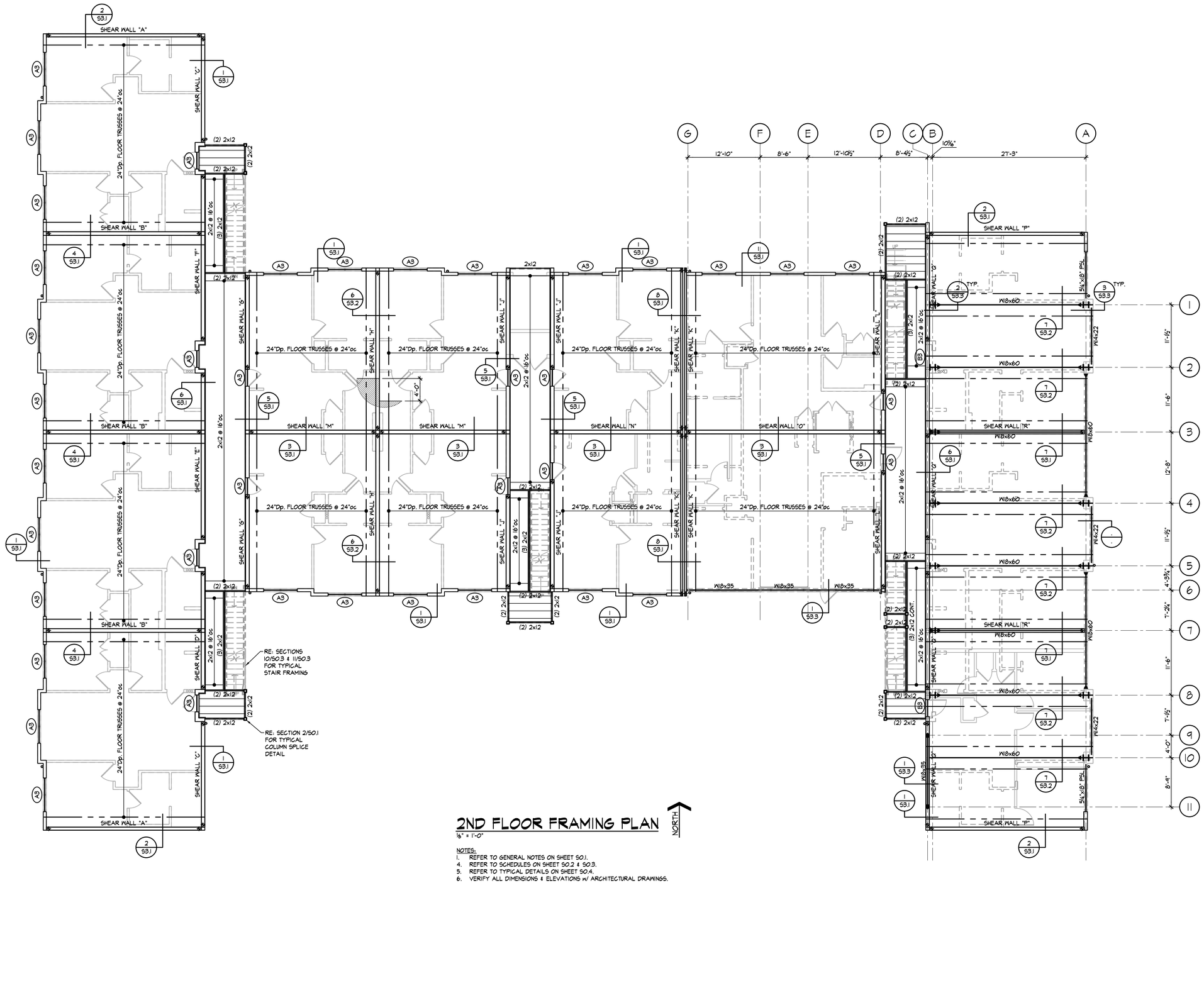

2ND FLOOR FRAMING PLAN

⅛" = 1'-0"

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.1.
4. REFER TO SCHEDULES ON SHEET S0.2 & S0.3.
5. REFER TO TYPICAL DETAILS ON SHEET S0.4.
6. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.

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SECOND FLOOR FRAMING PLAN

ISSUE DATE:
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REVISIONS:

PROJECT NO.: 1817

S1.2

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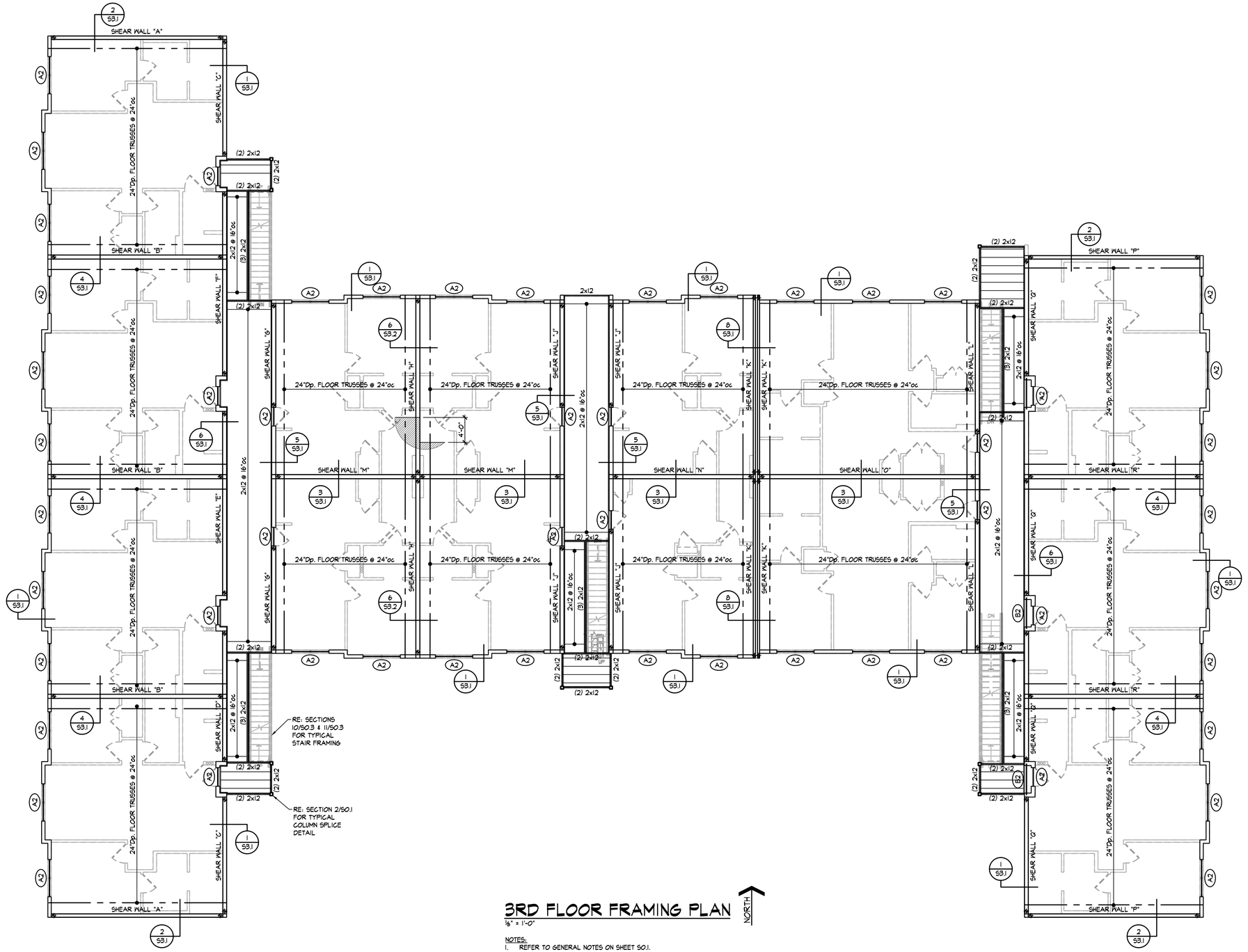

3RD FLOOR FRAMING PLAN

1/8" = 1'-0"

NORTH

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.1.
4. REFER TO SCHEDULES ON SHEET S0.2 & S0.3.
5. REFER TO TYPICAL DETAILS ON SHEET S0.4.
6. VERIFY ALL DIMENSIONS & ELEVATIONS w/ ARCHITECTURAL DRAWINGS.

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THIRD FLOOR FRAMING PLAN

ISSUE DATE:
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REVISIONS:

PROJECT NO.: 1817

S1.3

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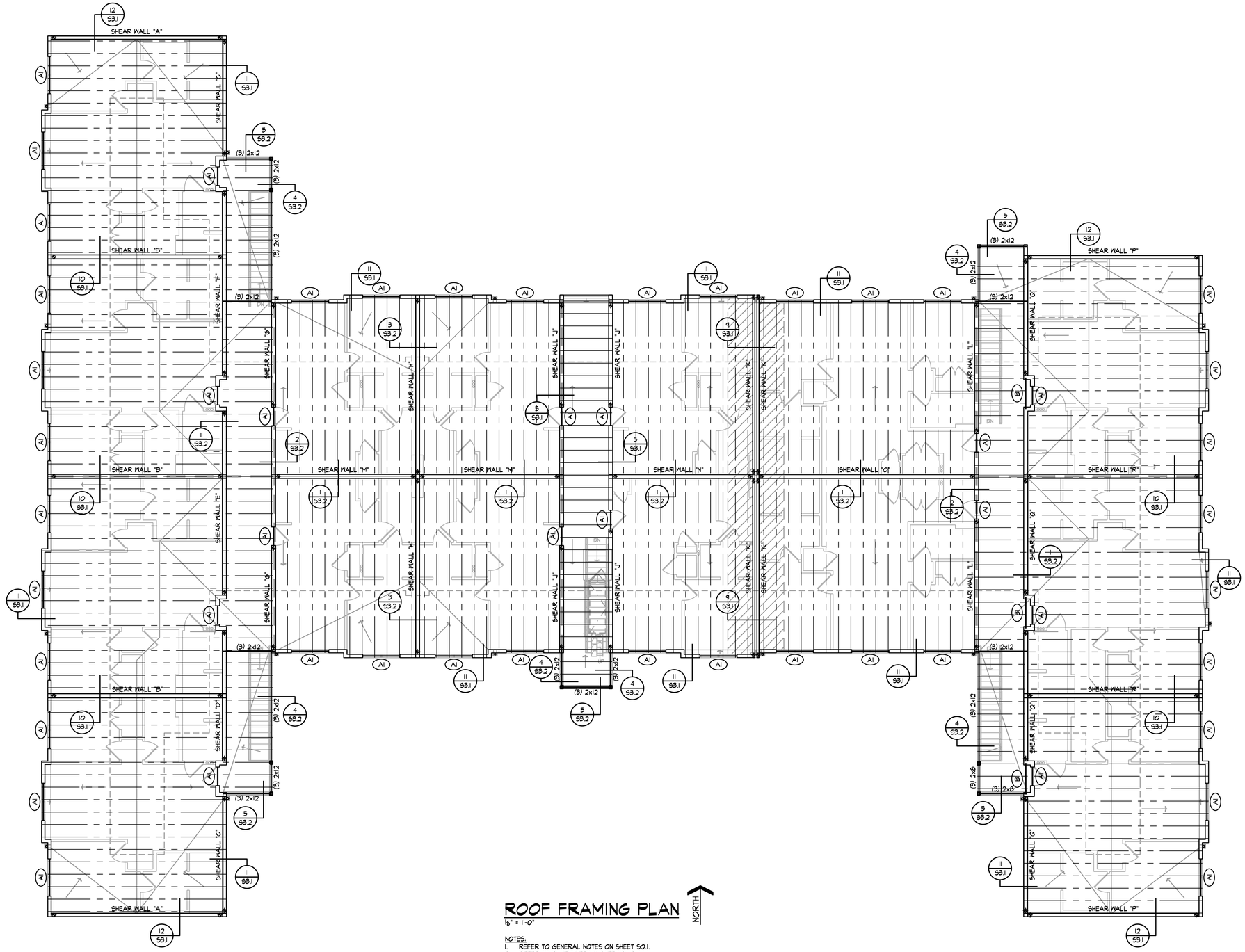

ROOF FRAMING PLAN

1/8" = 1'-0"

NORTH

NOTES:

1. REFER TO GENERAL NOTES ON SHEET S0.1.
2. REFER TO SCHEDULES ON SHEET S0.2.
3. REFER TO TYPICAL SECTIONS & DETAILS ON SHEET S0.3.
4. VERIFY ALL DIMENSIONS & ELEVATIONS W/ ARCHITECTURAL DRAWINGS.
4. THE TRUSS LAYOUT DEPICTED ON THE FRAMING PLAN IS SHOWN FOR SCHEMATIC PURPOSES. THE TRUSS SUPPLIER SHALL BE RESPONSIBLE FOR THE FINAL LAYOUT WHILE COMPLYING W/ THE STRUCTURAL DETAILS & UTLIZING THE LOAD BEARING ELEMENTS INDICATED ON THE DRAWINGS.

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ROOF FRAMING PLAN

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S1.4

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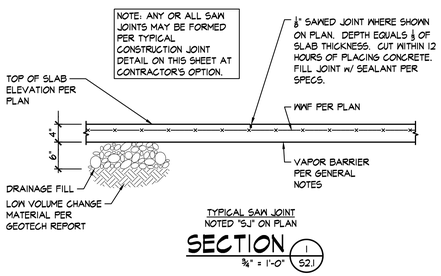
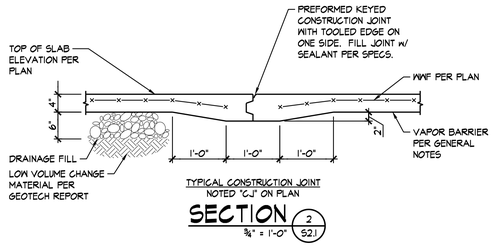


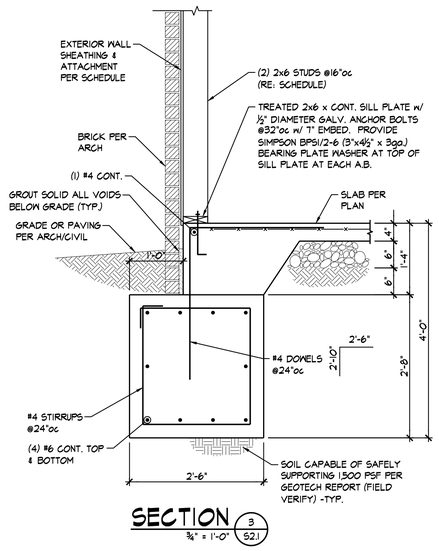
TYPICAL SAW JOINT
NOTED "SJ" ON PLAN

SECTION 1 / S2.1
¾" = 1'-0"

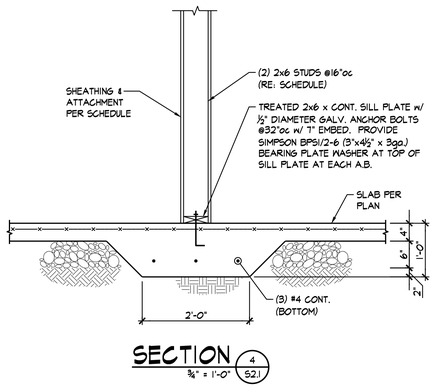


TYPICAL CONSTRUCTION JOINT
NOTED "CJ" ON PLAN

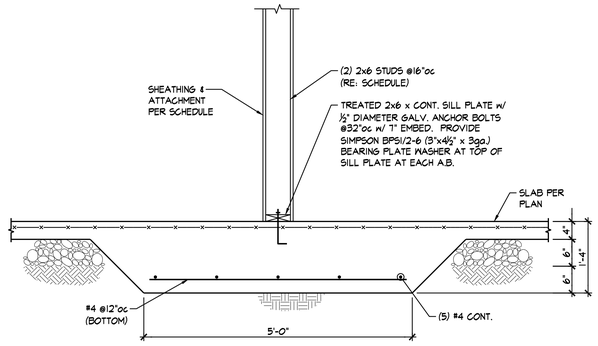
SECTION 2 / S2.1
¾" = 1'-0"



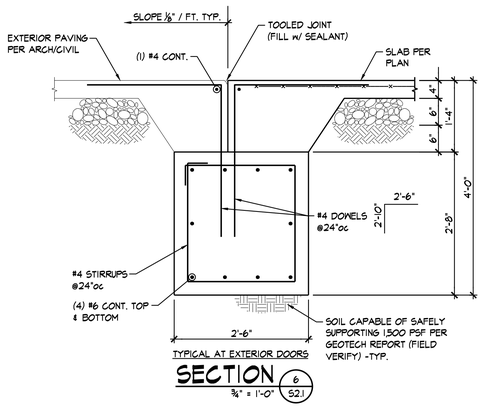
SECTION 3 / S2.1
¾" = 1'-0"



SECTION 4 / S2.1
¾" = 1'-0"

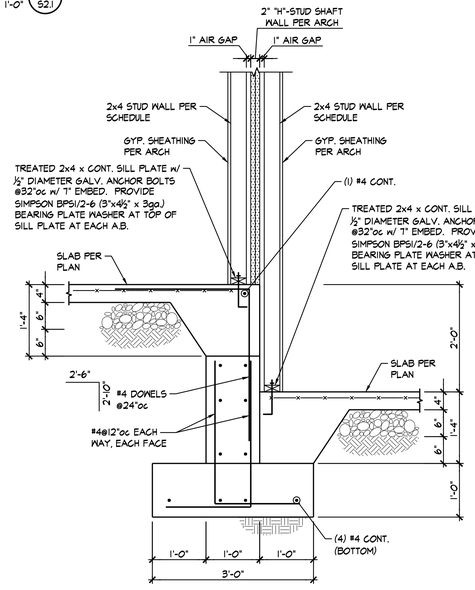


SECTION 5 / S2.1
¾" = 1'-0"



TYPICAL AT EXTERIOR DOORS

SECTION 6 / S2.1
¾" = 1'-0"



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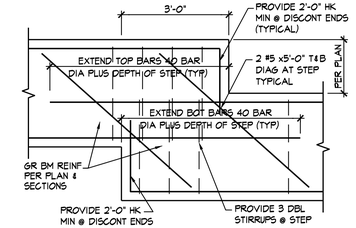
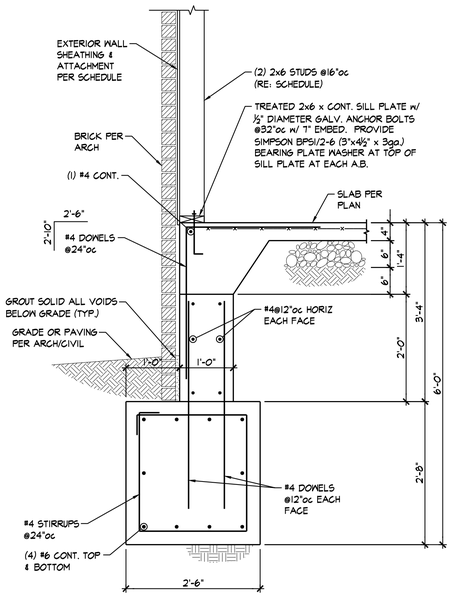
¾" = 1'-0"

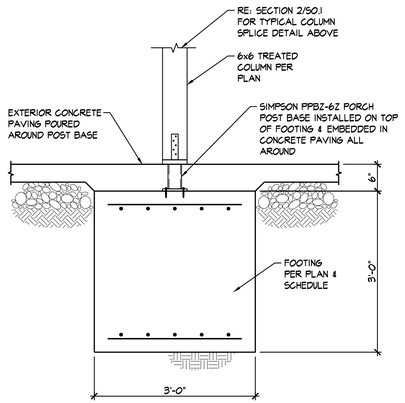


TYPICAL GRADE BM. STEP

8 / S2.1
½" = 1'-0"



SECTION 9 / S2.1
¾" = 1'-0"



SECTION 10 / S2.1
¾" = 1'-0"

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ARCHITECTURAL CORPORATION
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315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

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SEAL
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STATE OF MISSOURI
CHRISTOPHER W. BOOS
NUMBER PE-2008023332
PROFESSIONAL ENGINEER
2-4-19

FOUNDATION SECTIONS

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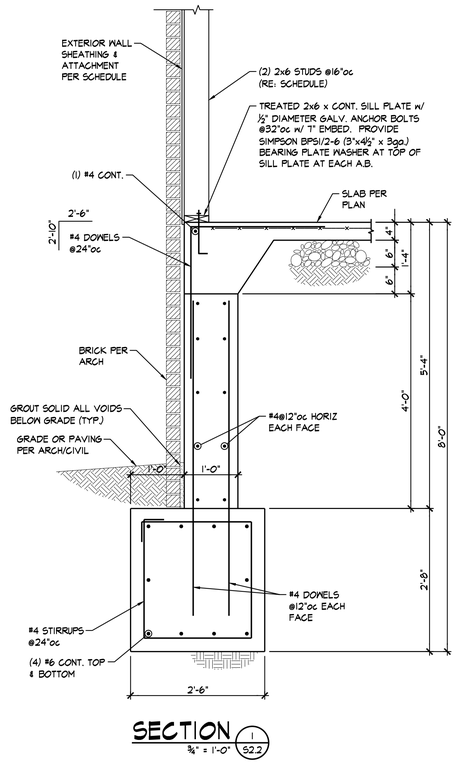
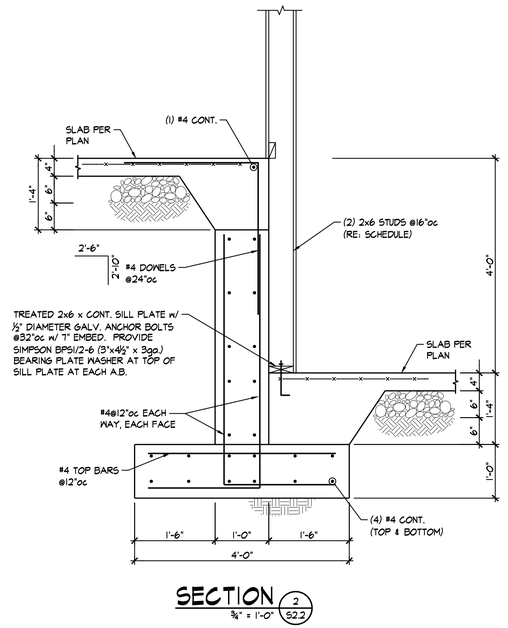
PROJECT NO.: 1817

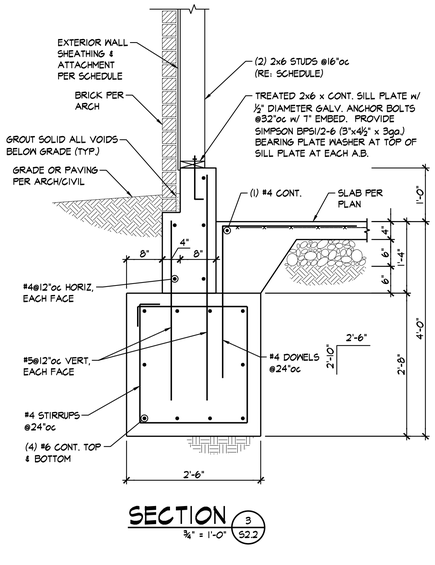
S2.1



SECTION 1 S2.2
3/4" = 1'-0"



SECTION 2 S2.2
3/4" = 1'-0"



SECTION 3 S2.2
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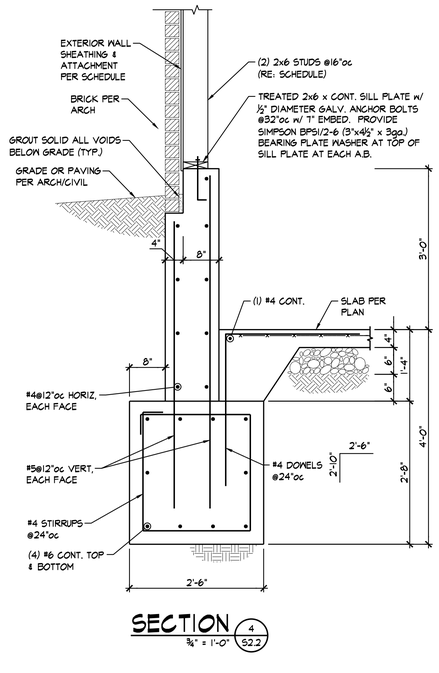

SECTION 4 S2.2
3/4" = 1'-0"

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S2.2

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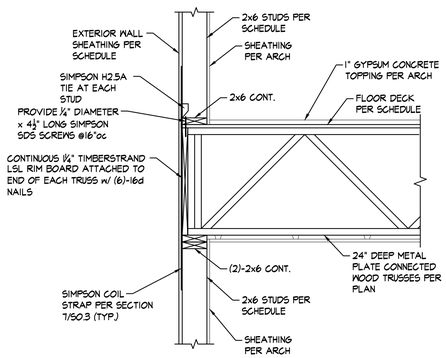
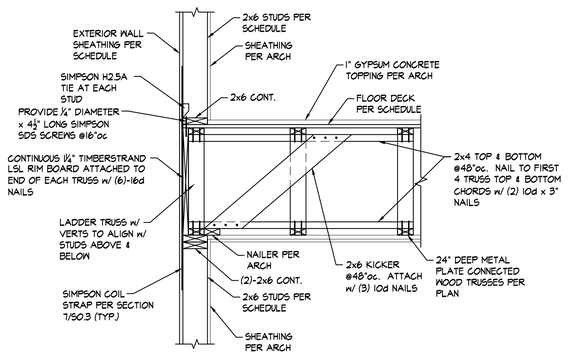
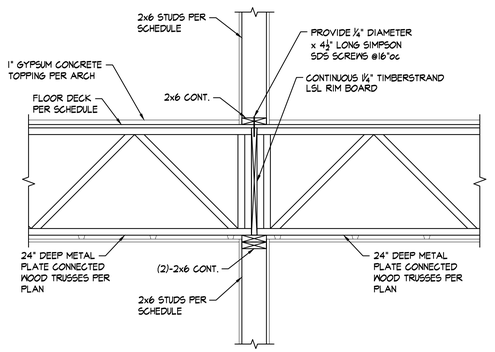


SECTION 1 / 53.1 — ¾" = 1'-0"



SECTION 2 / 53.1 — ¾" = 1'-0"



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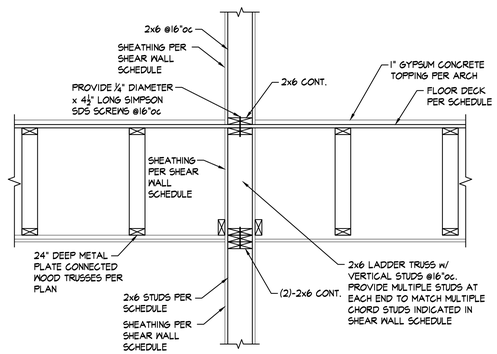
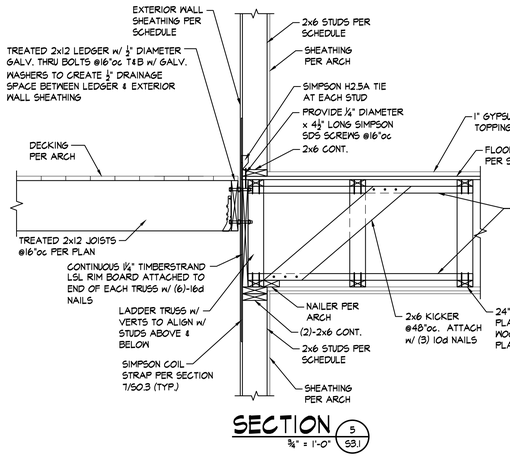
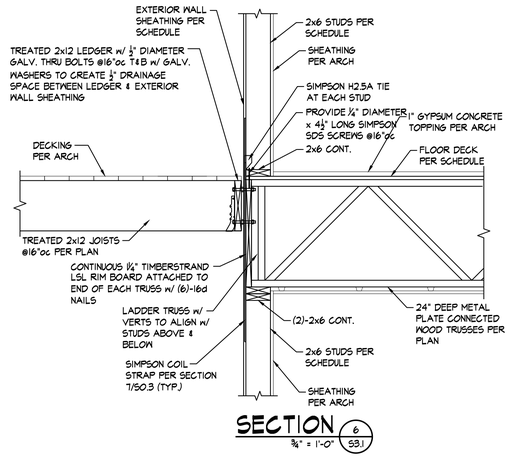


TYPICAL SHEAR WALL DETAIL AT FLOOR

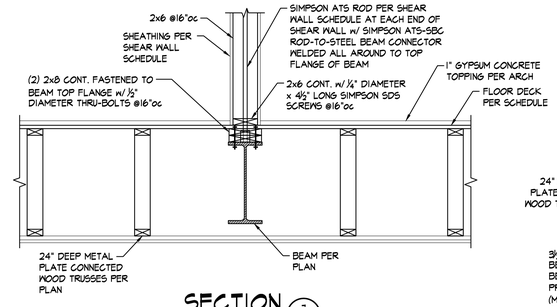
SECTION 4 / 53.1 — ¾" = 1'-0"



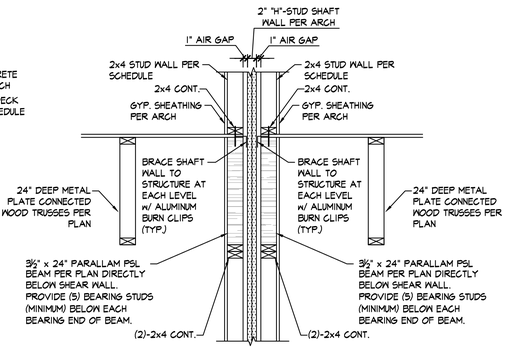
SECTION 5 / 53.1 — ¾" = 1'-0"



SECTION 6 / 53.1 — ¾" = 1'-0"

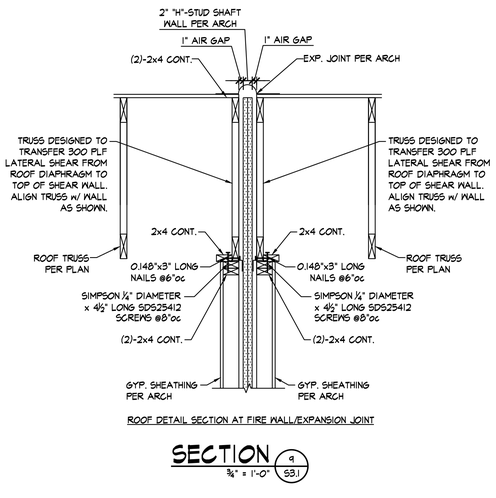


SECTION 7 / 53.1 — ¾" = 1'-0"



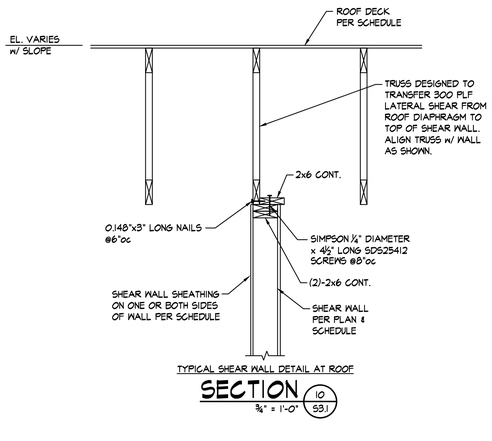
FLOOR DETAIL SECTION AT FIRE WALL/EXPANSION JOINT

SECTION 8 / 53.1 — ¾" = 1'-0"



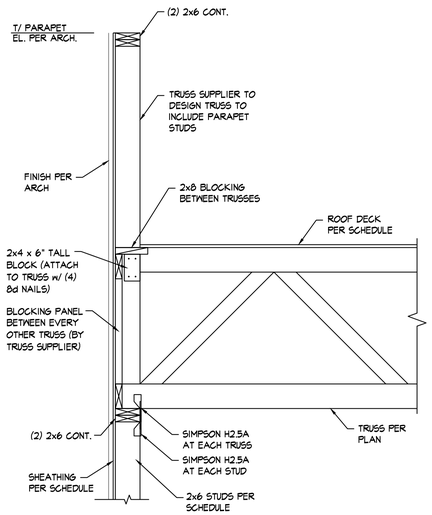
ROOF DETAIL SECTION AT FIRE WALL/EXPANSION JOINT

SECTION 9 / 53.1 — ¾" = 1'-0"

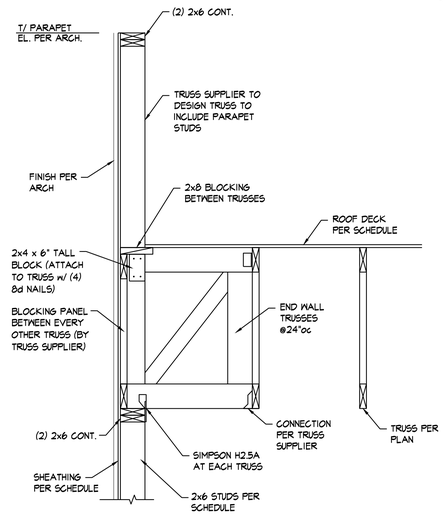


TYPICAL SHEAR WALL DETAIL AT ROOF

SECTION 10 / 53.1 — ¾" = 1'-0"



SECTION 11 / 53.1 — ¾" = 1'-0"



SECTION 12 / 53.1 — ¾" = 1'-0"

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STATE OF MISSOURI — CHRISTOPHER W. BOOS — NUMBER PE-2008023332 — 2-4-19 — PROFESSIONAL ENGINEER

SECTIONS

ISSUE DATE:
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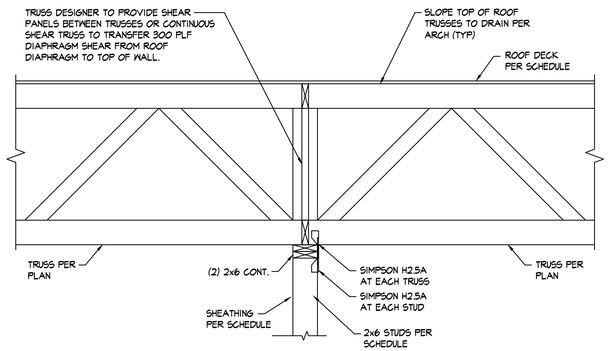
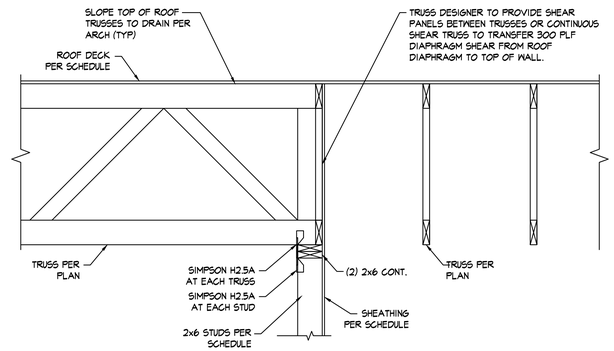
PROJECT NO.: 1817

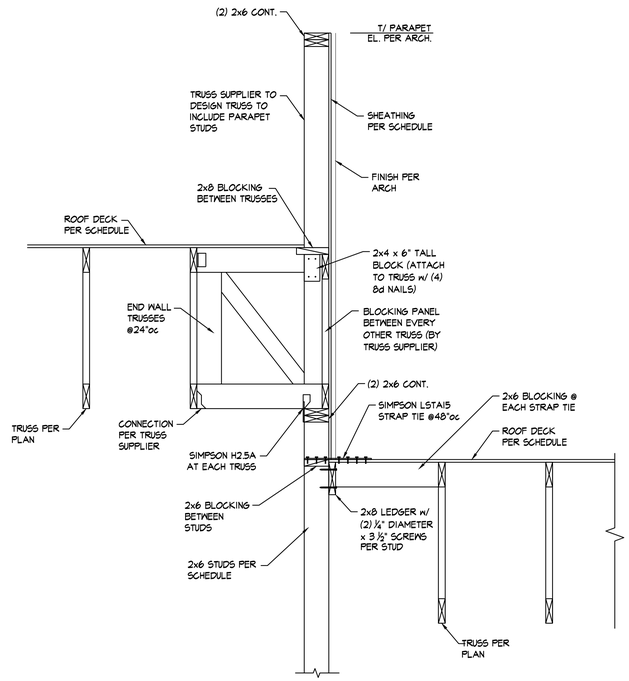
S3.1



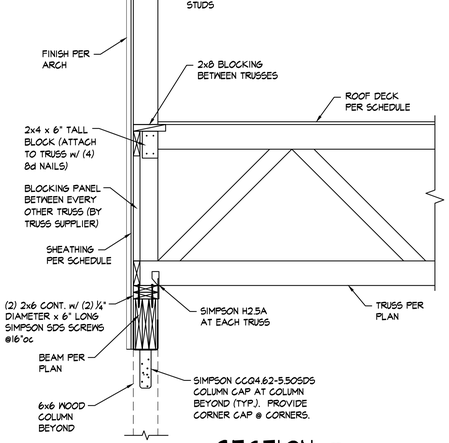
SECTION 1 — 3/4" = 1'-0" — S3.2



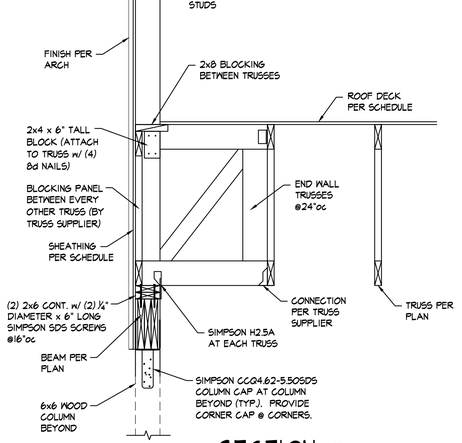
SECTION 2 — 3/4" = 1'-0" — S3.2



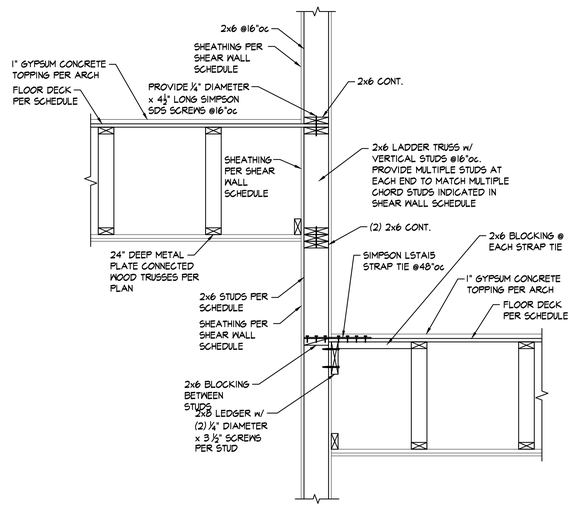
SECTION 3 — 3/4" = 1'-0" — S3.2



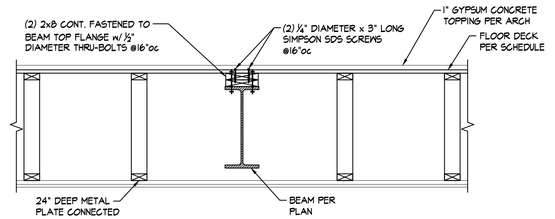
SECTION 4 — 3/4" = 1'-0" — S3.2



SECTION 5 — 3/4" = 1'-0" — S3.2



SECTION 6 — 3/4" = 1'-0" — S3.2



SECTION 7 — 3/4" = 1'-0" — S3.2

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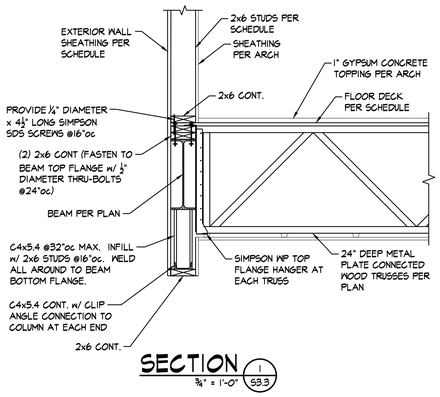
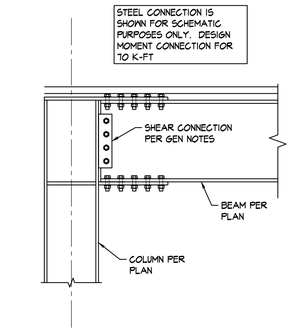
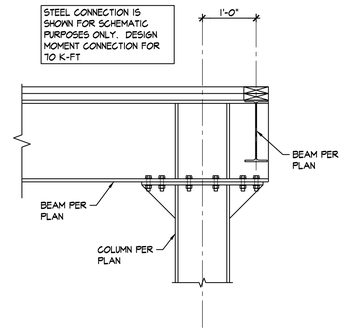


SECTION 1 S3.3
¾" = 1'-0"



SECTION 2 S3.3
¾" = 1'-0"



SECTION 3 S3.3
¾" = 1'-0"

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S3.3

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SYMBOLS

PIPING

- DIRECTION OF FLOW
- UNION
- FLANGE CONNECTION
- CAP
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- PIPE REDUCER
- PIPE GUIDE
- PIPE ANCHOR
- EXPANSION JOINT
- SHUT-OFF VALVE
- CHECK VALVE
- BALANCING VALVE WITH PRESSURE PORTS
- TRIPLE DUTY VALVE
- STRAINER
- STRAINER WITH BLOWOFF
- RELIEF/SAFETY VALVE
- MANUAL AIR VENT
- SOLENOID VALVE
- THREE-WAY CONTROL VALVE
- TWO-WAY CONTROL VALVE
- PRESSURE REDUCING VALVE
- PRESSURE GAUGE
- THERMOMETER
- GAS REGULATOR
- BACKFLOW PREVENTER
- AIR OUTLET
- OXYGEN OUTLET
- VACUUM OUTLET
- NITROGEN OUTLET
- NITROUS OXIDE OUTLET
- FS-1 FLOOR SINK
- FD-1 FLOOR DRAIN
- RD-1 ROOF DRAIN
- HB-1 HOSE BIBB
- FLOOR/GRADE CLEANOUT
- WALL CLEANOUT
- END OF LINE CLEANOUT

DUCTWORK

- AHU-1 EQUIPMENT TYPE AND NUMBER
- PUMP
- LINEAR SLOT DIFFUSER
- FLEXIBLE DUCT
- NEGATIVE PRESSURE AIR DUCT UP
- NEGATIVE PRESSURE AIR DUCT DOWN
- POSITIVE PRESSURE AIR DUCT UP
- POSITIVE PRESSURE AIR DUCT DOWN
- RISE DUCT RISE OR DROP IN THE DIRECTION OF AIRFLOW
- SQUARE TO ROUND TRANSITION
- ROUND DUCT UP, DOWN
- ELBOW WITH TURNING VANES
- FLEXIBLE CONNECTION
- MANUAL BALANCE DAMPER
- MOTORIZED CONTROL DAMPER
- FIRE DAMPER
- SMOKE DAMPER
- FSD FIRE/SMOKE DAMPER
- SPIN-IN BRANCH DUCT CONNECTOR- WITH DAMPER IF SHOWN
- HIGH EFFICIENCY BRANCH DUCT CONNECTOR- WITH DAMPER IF SHOWN
- SUPPLY AIR DIFFUSER
- DUCT MOUNTED GRILLE/WALL GRILLE
- RETURN GRILLE
- NOISE REDUCING RETURN AIR TRANSFER
- SUPPLY DIFFUSER - THREE-WAY THROW
- S1 / 100 / 6" DIFFUSER, GRILLE, OR REGISTER TYPE / CFM / CONNECTION SIZE

POWER EQUIPMENT

- ELECTRICAL DISTRIBUTION PANEL, SWITCHBOARD, OR MOTOR CONTROL
- PANEL BOARD
- LOAD CENTER
- METER
- J-BOX
- MOTOR
- DISCONNECT SWITCH
- COMBINATION DISCONNECT SWITCH AND MOTOR STARTER
- MAGNETIC MOTOR STARTER, NEMA SIZE AS NOTED
- BELL
- HOME RUN
- CONCEALED CONDUIT
- CONDUIT BELOW SLAB
- ONE HOT, ONE NEUTRAL, AND ONE GROUND IN CONCEALED CONDUIT (#12 in 1/2" C. U.N.O.)
- #14'S (WIRE NUMBER INDICATED)
- #16'S (WIRE NUMBER INDICATED)
- EXPOSED CONDUIT
- CONDUIT TURNING DOWN
- CONDUIT TURNING UP

TEMPERATURE CONTROLS

- T AHU-1 TEMPERATURE SENSOR/THERMOSTAT SERVING AHU-1
- H HUMIDITY SENSOR/HUMIDISTAT
- T REMOTE TEMPERATURE SENSOR
- H REMOTE HUMIDITY SENSOR
- CO2 CARBON DIOXIDE SENSOR
- OCC OCCUPANCY SENSOR
- CO CARBON MONOXIDE SENSOR
- SP STATIC PRESSURE SENSOR
- DPT DIFFERENTIAL PRESSURE TRANSMITTER
- FM FLOW METER

WIRING DEVICES & OUTLETS

- SIMPLEX RECEPTACLE
- DUPLEX RECEPTACLE
- GFI GROUND FAULT INTERRUPTER
- WP GROUND FAULT INTERRUPTER WEATHERPROOF DUPLEX RECEPTACLE
- QUAD RECEPTACLE
- HEAVY DUTY RECEPTACLE-NEMA TYPE AS NOTED
- FLOOR MOUNTED DEVICE
- CEILING MOUNTED DEVICE
- ISOLATED GROUND DUPLEX RECEPTACLE
- ISOLATED GROUND QUAD RECEPTACLE
- W WALL MOUNTED PHONE
- 48 CENTER OF DEVICE AT 48" A.F.F.
- E DEVICE ON EMERGENCY POWER
- DATA OUTLET
- TELEPHONE/DATA OUTLET
- CABLE T.V. OUTLET
- CABLE TRAY
- SURFACE RACEWAY
- S SWITCH, SPST U.N.O.
- S^2 SWITCH, DPST
- S^F FUSESTAT
- S^3 3-WAY SWITCH
- S^4 4-WAY SWITCH
- S^D DIMMER SWITCH
- S^J JAMB SWITCH
- S^M MOTOR RATED SWITCH
- S^{WP} SWITCH WITH WEATHERPROOF COVER
- S^K KEYED SWITCH
- TS TIME SWITCH
- PUSH BUTTON
- P PHOTOCELL SWITCH
- O* CEILING OCCUPANCY SENSOR
- RC* ROOM CONTROLLER
- EM* EMERGENCY CONTROL UNIT

LIGHTING

- LIGHT TRACK WITH LIGHT TYPES AS INDICATED
- WALL WASHER LIGHTING FIXTURE, ARROW INDICATES DIRECTION
- A FLUORESCENT FIXTURE AND TYPE
- EMERGENCY LIGHT FIXTURE
- NIGHT LIGHT FIXTURE
- A LIGHT FIXTURE AND TYPE
- A LIGHT FIXTURE AND TYPE
- EMERGENCY LIGHT FIXTURE
- WALL MOUNTED FIXTURE
- WALL SCONCE
- WALL MOUNTED FIXTURE
- POLE MOUNTED LIGHT (NUMBER OF HEADS AS SHOWN)
- TENON MOUNTED POLE LIGHT
- IN-GROUND LIGHT FIXTURE
- BOLLARD LIGHT FIXTURE
- EXIT LIGHT CLG. MNTD. (SGL. FACE)
- EXIT LIGHT CLG. MNTD. (DBL. FACE)
- EXIT LIGHT WALL MNTD. (SGL. FACE)
- EXIT/EMERGENCY LIGHT
- EMERGENCY LIGHT
- CEILING FAN

PLUMBING

- WASTE LINE-ABOVE GRADE
- GW GREASE WASTE LINE-ABOVE GRADE
- WASTE LINE-BELOW GRADE
- VENT LINE
- DOMESTIC COLD WATER
- DOMESTIC HOT WATER
- T DOMESTIC TEMPERED HOT WATER
- DOMESTIC HOT WATER RECIRC.
- 140 140 DEGREE DOMESTIC HOT WATER
- VENT THROUGH ROOF NOTE

FIRE PROTECTION

- SPRINKLER HEAD (PENDANT)
- SPRINKLER HEAD (SIDEWALL)
- SPRINKLER HEAD (UPRIGHT)
- FP FIRE PROTECTION PIPING
- SIAMESE CONNECTION

FIRE ALARM

- FACP FIRE ALARM CONTROL PANEL
- FAA ANNUNCIATOR PANEL
- FA FIRE ALARM POWER EXTENDER
- P PULL STATION
- K KNOX BOX
- R CONTROL RELAY
- Z^1 SIGNAL ZONE ADDRESSABLE MODULE
- Z^2 CONTROL ZONE ADDRESSABLE MODULE
- Z^3 MONITOR ZONE ADDRESSABLE MODULE
- S^1 SINGLE STATION SMOKE DETECTOR
- S^2 SMOKE DETECTOR (SUP. RELAY BASE)
- S^3 SYSTEM SMOKE DETECTOR
- S BEAM DETECTOR
- H HEAT/THERMAL DETECTOR
- D DUCT SMOKE DETECTOR
- I INDIVIDUAL ADDRESSABLE MONITOR
- MAGNETIC DOOR HOLD
- HORN/STROBE
- STROBE
- SPEAKER/STROBE
- SPEAKER
- HORN
- T VALVE TAMPER SWITCH
- F FLOW SWITCH
- EOL END OF LINE RESISTOR
- PIV POST INDICATING VALVE
- FIRE ALARM BELL
- FIREMAN'S PHONE JACK
- SECURITY GUARD FOR DEVICE SHOWN
- S/CO COMBINATION SMOKE DETECTOR/ CARBON MONOXIDE DETECTOR.

NURSE CALL

- NM NURSE CALL MASTER STATION
- P NURSE CALL BEDSIDE STATION-SINGLE PATIENT
- P_2 NURSE CALL BEDSIDE STATION-DOUBLE PATIENT
- P PC PATIENT EMERGENCY PULL CORD STATION
- PB PATIENT BED INTERFACE-37 PIN CONNECTOR
- D DUTY STATION
- S STAFF STATION
- L DOME LIGHT
- L_Z ZONE DOME LIGHT
- B CODE BLUE PUSHBUTTON STATION
- E EMERGENCY STAFF STATION

COMMUNICATIONS

- S SPEAKER HORN-PROJECTION TYPE
- S SPEAKER
- V VOLUME CONTROL
- M MICROPHONE JACK
- SC COMBINATION SPEAKER/CLOCK
- C SYSTEM CLOCK
- ET ELAPSED TIME CLOCK
- IC INTERCOM
- PS POWER SUPPLY
- A AMPLIFIER

SECURITY

- CCTV CLOSED CIRCUIT TELEVISION CAMERA
- EL ELECTRIC DOOR LOCK
- DM DOOR MONITOR
- CR CARD READER
- GB GLASS BREAK
- RTE REQUEST TO EXIT BUTTON
- SM SECURITY MONITOR
- PB D PANIC BUTTON (D=DESK, W=WALL, F=FLOOR)
- KP KEY PAD

ABBREVIATIONS

A	AMPS, AIR (COMPRESSED)
A/C	AIR CONDITIONING
AF	AMPERE FUSE
AFC	ABOVE FINISHED CEILING
AFEA	AREA FOR EVACUATION ASSISTANCE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CURRENT
AL	ALUMINUM
APD	AIR PRESSURE DROP
ATS	AUTOMATIC TRANSFER SWITCH
AV	ACID VENT
AW	ACID WASTE
AWG	AMERICAN WIRE GAUGE
BCU	BLOWER COIL UNIT
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BFF	BELOW FINISHED FLOOR
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTUH	BRITISH THERMAL UNITS PER HOUR
C	CONDUIT
CT	CURRENT TRANSFORMER
CATV	CABLE TELEVISION SYSTEM
CAV	CONSTANT AIR VOLUME
CCTV	CLOSED CIRCUIT TELEVISION
CD	CONDENSATE DRAIN
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEANOUT, CARBON MONOXIDE
CO2	CARBON DIOXIDE
CT	COOLING TOWER
CTR	COOLING TOWER RETURN
CTS	COOLING TOWER SUPPLY
CU	COPPER, CONDENSING UNIT
CUH	CABINET UNIT HEATER
CW	COLD WATER
CWR	CHILLED WATER RETURN
CWS	CHILLED WATER SUPPLY
D	DRAIN
DDC	DIRECT DIGITAL CONTROL
DFU	DRAINAGE FIXTURE UNITS
DN	DOWN
DPDT	DOUBLE-POLE, DOUBLE-THROW
DPST	DOUBLE-POLE, SINGLE-THROW
DX	DIRECT EXPANSION
E	EMERGENCY
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
E/C	ELECTRICAL CONTRACTOR
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EJ	EXPANSION JOINT
ESFR	EARLY SUPPRESSION FAST RESPONSE
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EWB	ENTERING WET BULB
EWC	ELECTRIC WATER COOLER
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
FCO	FLOOR CLEANOUT
FCU	FAN COOL UNIT
FD	FIRE DAMPER, FLOOR DRAIN
FF	FINISHED FLOOR
FGCO	FINISHED GRADE CLEANOUT
FL	FLOW LINE
FLA	FULL LOAD AMPS
F/C	FIRE PROTECTION CONTRACTOR
FTU	FAN TERMINAL UNIT
FVNR	FULL VOLTAGE, NON-REVERSING
G	NATURAL GAS
G/C	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HB	HOSE BIBB
HCR	HOT/CHILLED WATER RETURN
HCS	HOT/CHILLED WATER SUPPLY
HD	HEAD, HUB DRAIN
HOA	HAND-OFF-AUTOMATIC
HP	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPR	HEAT PUMP RETURN
HPS	HEAT PUMP SUPPLY, HIGH PRESSURE STEAM, HIGH PRESSURE SODIUM
HSTAT	HUMIDISTAT
HTG	HEATING
HTR	HEATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IG	ISOLATED GROUND
IN. WC	INCHES OF WATER COLUMN
INC.	INCANDESCENT
kcmil	1000 CIRCULAR MILS
KV	KILOVOLT
KVA	KILOVOLT-AMPS
KVAR	KILOVOLT-AMPS REACTIVE
KW	KILOWATT
KWH	KILOWATT-HOUR
L	LAVATORY
LAT	LEAVING AIR TEMPERATURE
LDB	LEAVING DRY BULB
LF	LINEAR FEET
LP	LOW PRESSURE
LPC	LOW PRESSURE STEAM CONDENSATE
LPG	LIQUIFIED PETROLEUM GAS (PROPANE)
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MBH	1000 BTU PER HOUR
M/C	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MCM	1000 CIRCULAR MILS
MD	MOTORIZED DAMPER
MDP	MAIN DISTRIBUTION PANEL
MFR	MANUFACTURER
MH	MANHOLE/METAL HALIDE
MLO	MAIN LUGS ONLY
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MS	MOTOR STARTER
MSB	MAIN SWITCHBOARD
MTD	MOUNTED
MAU	MAKE-UP AIR UNIT
N	NITROGEN
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NFNH	NON-FREEZE WALL HYDRANT
NIC	NOT IN CONTRACT
NO	NITROUS OXIDE
N/O N/C	NORMALLY OPEN, NORMALLY CLOSED

O	OXYGEN
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
ORD	OVERFLOW ROOF DRAIN
PA	PIPE ANCHOR
PCWR	PRIMARY CHILLED WATER RETURN
PCWS	PRIMARY CHILLED WATER SUPPLY
PCR	PUMPED CONDENSATE RETURN
PD	PRESSURE DROP (FEET OF WATER)
PH	PHASE
PHWR	PRIMARY HEATING WATER RETURN
PHWS	PRIMARY HEATING WATER SUPPLY
PNL	PANEL
PRV	PRESSURE REDUCING VALVE
PS	PULSE START
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH-ABSOLUTE
PSIG	POUNDS PER SQUARE INCH-GAUGE
PT	POTENTIAL TRANSFORMER
QTY	QUANTITY
R	REFRIGERANT
RA	RETURN AIR
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REV	REVISION
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RPM	REVOLUTIONS PER MINUTE
RTU	ROOF TOP UNIT
S	SINK, STEAM
SA	SUPPLY AIR
SAN	SANITARY SEWER
SCWR	SECONDARY CHILLED WATER RETURN
SCWS	SECONDARY CHILLED WATER SUPPLY
SD	SMOKE DAMPER, STORM DRAIN
SF	SUPPLY FAN
SHWR	SECONDARY HEATING WATER RETURN
SHWS	SECONDARY HEATING WATER SUPPLY
SPST	SINGLE-POLE SINGLE-THROW
SP	STATIC PRESSURE
SQFT	SQUARE FOOT/SQUARE FEET
S/S	START/STOP
SS	SERVICE SINK, STAINLESS STEEL
ST	STORM DRAIN, SOUND TRAP, STEAM TRAP
STC	SOUND TRANSMISSION CLASS
STM	STEAM
SW	SOFT WATER
SWBD	SWITCHBOARD
T	TEMPERED WATER
TG	TEMPERATURE GAUGE
TDH	TOTAL DYNAMIC HEAD
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TL	TWISTLOCK
TU	TERMINAL UNIT
UF	UNDER FLOOR
UG	UNDER GROUND
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VACUUM
VAC	VOLTS ALTERNATING CURRENT
VAV	VARIABLE AIR VOLUME
VCP	VITRIFIED CLAY PIPE
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THROUGH ROOF
W	WATER SERVICE, WATTS
WB	WET BULB
WCO	WALL CLEANOUT
WC	WATER COLUMN, WATER CLOSET
WH	WALL HYDRANT
WPD	WATER PRESSURE DROP
WP	WEATHERPROOF
WT	WATERTIGHT, WEIGHT
XFMR	TRANSFORMER
XP	EXPLOSION-PROOF

GENERAL

- HEAVY LINEWEIGHT INDICATES NEW WORK
- CONNECT NEW TO EXISTING
- LIGHT AND SCREENED LINEWEIGHT INDICATES EXISTING-TO-REMAIN
- DARK AND DASHED LINEWEIGHT INDICATES DEMOLITION WHEN SHOWN ON DEMOLITION PLAN OR NOTED
- POINT OF DISCONNECT FROM EXISTING
- 2 CONSTRUCTION NOTE
- 2 REVISION NUMBER
- 1 M201 SECTION CUT THROUGH DRAWING
- 1 M201 AREA OF ENLARGEMENT
- 1 M201 PLAN NUMBER / SHEET WHERE ENLARGED PLAN IS DRAWN

THIS IS A MASTER LEGEND. NOT ALL SYMBOLS, ABBREVIATIONS, ETC. ARE USED ON THE DRAWINGS.

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

SYMBOLS LEGEND

ISSUE DATE:
02.04.2019

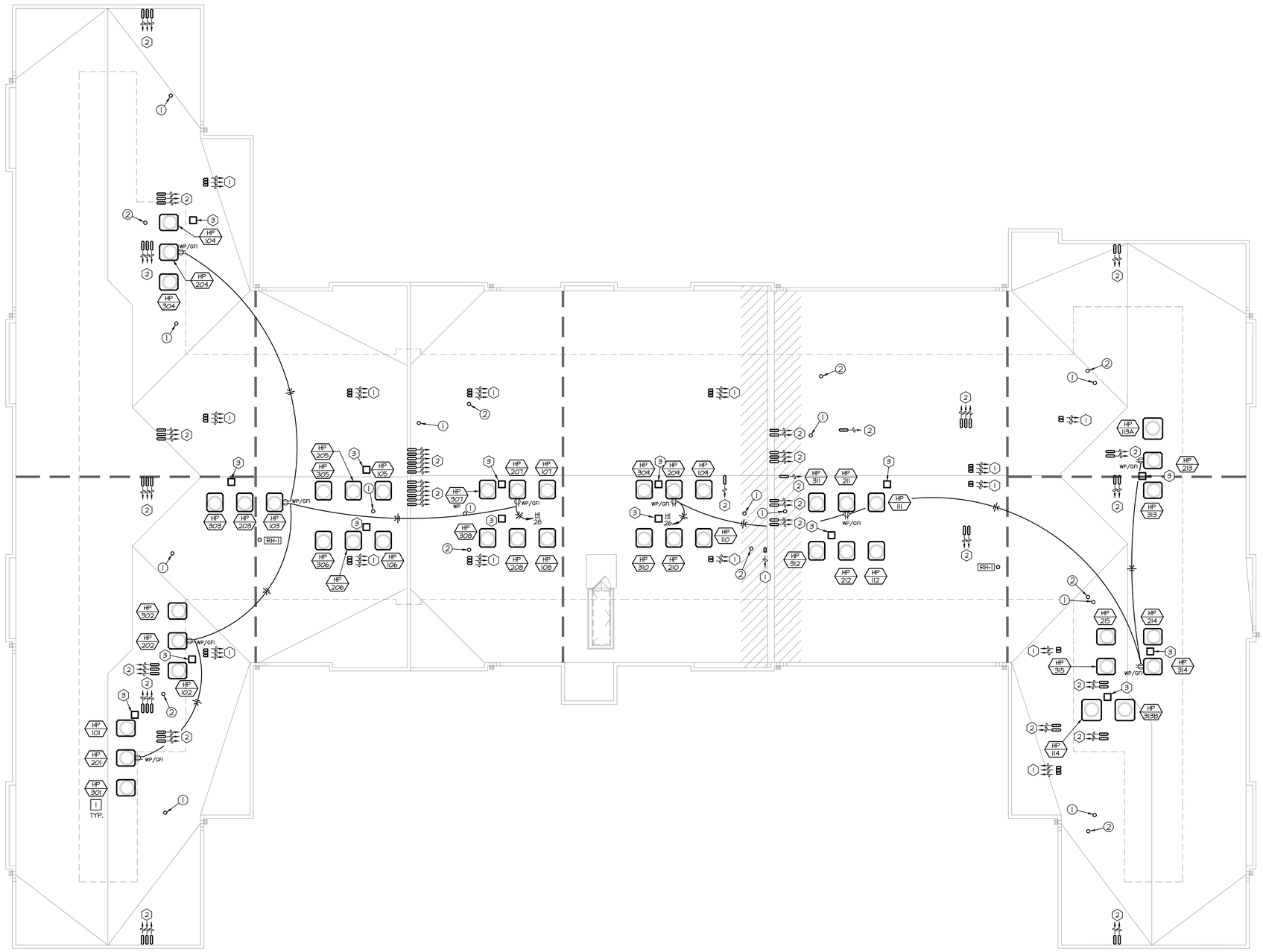
REVISIONS:

H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@h-be.com

H&B Project Number: 1820640

PROJECT NO.: 1803

MPE0.1



01 MPE ROOF PLAN
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES:

A. REFERENCE SHEET M1.1 FOR MECHANICAL GENERAL NOTES.
B. REFERENCE SHEET P0.1 FOR PLUMBING GENERAL NOTES.
C. REFERENCE SHEET E2.1 FOR POWER GENERAL NOTES.

(#) MECHANICAL PLAN NOTES:

1. CLOTHES DRYER ROOF VENT. REFER TO DETAIL ON M5.1.
2. BATHROOM EXHAUST VENT. REFER TO DETAIL ON M5.1. ROUTE VENT IN ATTIC SPACE AS SHOWN.
3. PROVIDE WEATHER TIGHT CURB FOR REFRIGERANT PIPE ROUTING. REFER TO CONDENSING UNIT MOUNTING DETAIL ON M5.1

(#) PLUMBING PLAN NOTES:

1. 3" VENT THRU ROOF.
2. 3" PVC PIPE FOR RADON SUPPRESSION SYSTEM.

[#] ELECTRICAL PLAN NOTES:

1. CIRCUIT HEAT PUMP TO PANELBOARD IN UNIT THAT IT SERVES. REFER TO ELECTRICAL PANELBOARD SCHEDULES AND MECHANICAL EQUIPMENT AND ELECTRICAL CONNECTION SCHEDULE.

RADON CONTROL SYSTEM NOTES:

1. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ICC IRC APPENDIX F.
2. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS OR OTHER FLOOR ASSEMBLIES SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

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315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER
02/04/19

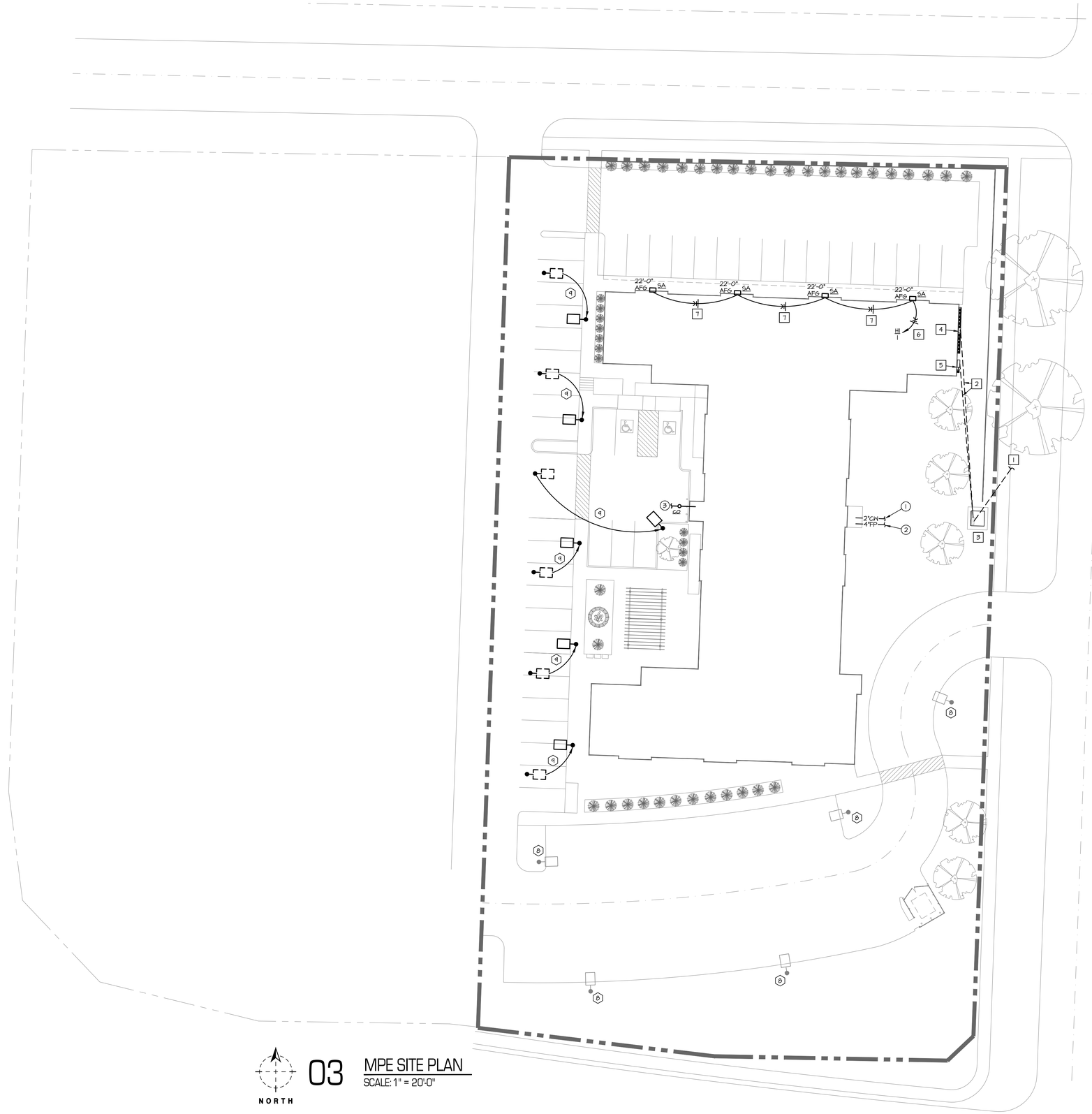
MPE ROOF PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

H&B HOSS & BROWN ENGINEERS
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362.9090 phone
mail@hb-be.com
H&B Project Number: 1820640

PROJECT NO.: 1803

MPE1.0



03 MPE SITE PLAN
SCALE: 1" = 20'-0"

NORTH

GENERAL NOTES:

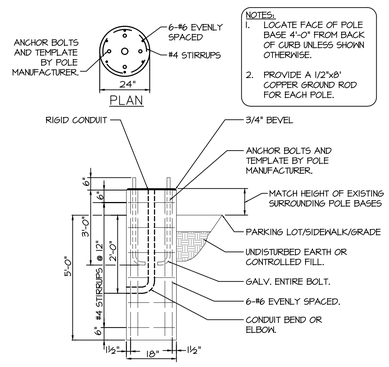
A. REFERENCE SHEET E2.1 FOR POWER GENERAL NOTES.

ELECTRICAL PLAN NOTES:

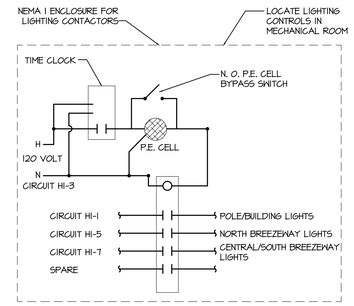
1. PROVIDE PRIMARY CONDUITS PER UTILITY COMPANY STANDARDS. REFERENCE ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION.
2. PROVIDE SECONDARY CONDUIT. REFERENCE ELECTRICAL RISER DIAGRAM FOR MORE INFORMATION.
3. PAD MOUNTED UTILITY TRANSFORMER. PROVIDE CONCRETE PAD PER UTILITY COMPANY STANDARDS.
4. METER CENTER. REFERENCE ELECTRICAL RISER DIAGRAM.
5. C.T. CABINET AND HOUSE METER. REFERENCE ELECTRICAL RISER DIAGRAM.
6. HOMERUN WITH (2) #10 & #10 GROUND WIRE IN A 3/4" CONDUIT. ROUTE THROUGH TIME CLOCK AND PHOTOCELL. REFERENCE EXTERIOR LIGHTING CONTROL SCHEMATIC THIS SHEET.
7. ROUTE (2) #10 AND (1) #10 GROUND WIRE IN 3/4" CONDUIT.
8. EXISTING POLE LIGHT FIXTURE TO REMAIN.
9. EXISTING POLE LIGHT FIXTURE TO BE RELOCATED AS SHOWN. EXTEND CIRCUITRY AS REQUIRED TO NEW LOCATION.

PLUMBING PLAN NOTES:

1. NEW 2-1/2" DOMESTIC COLD WATER SERVICE LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
2. NEW 4" FIRE PROTECTION LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
3. NEW 6" SANITARY DRAIN LINE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.



02 POLE BASE DETAIL
SCALE: Not to Scale



01 EXTERIOR LIGHTING CONTROL SCHEMATIC
SCALE: Not to Scale

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Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

MPE SITE PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362.9090 phone
mail@hb-be.com
H&B Project Number: 1820640

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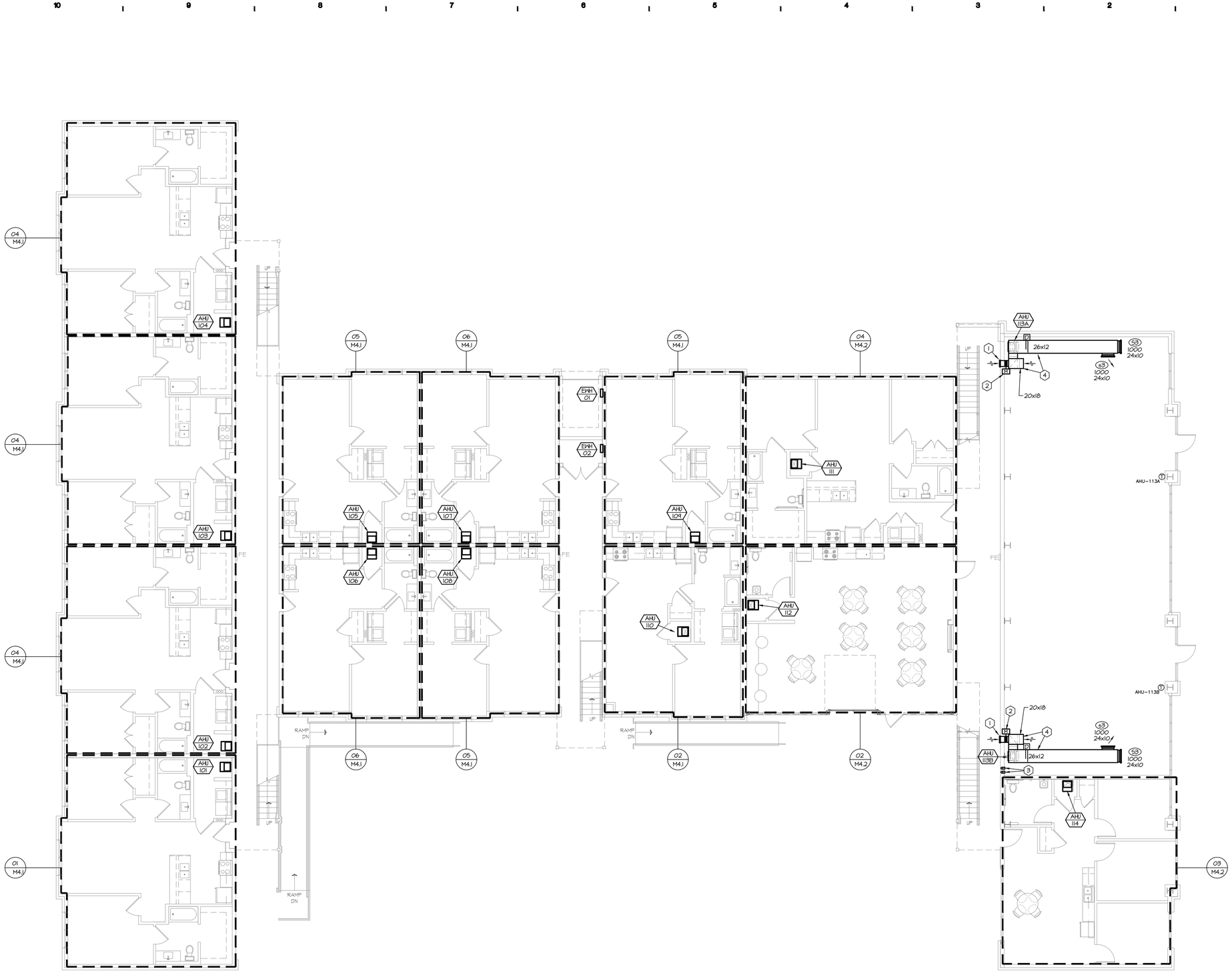


GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITRED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.

B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.

C. DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.

D. PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.

E. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES.

F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

G. DUCTWORK UPSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX INLET SIZE UNLESS NOTED OTHERWISE. PROVIDE STRAIGHT DUCT AT TERMINAL INLET. STRAIGHT DUCT LENGTH SHALL BE A MINIMUM OF 1 1/2 TIMES THE DIAMETER OF THE INLET DUCT, OR GREATER AS RECOMMENDED BY MANUFACTURER.

H. DUCTWORK DOWNSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX OUTLET SIZE UNLESS NOTED OTHERWISE.

I. BRANCH DUCTWORK TO DIFFUSERS, REGISTERS OR GRILLES SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

J. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.

K. PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO TERMINAL UNITS, BALANCING DAMPERS, TERMINAL UNIT HEATING COIL PIPING, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. COORDINATE WITH THE ARCHITECTURAL TRADES.

L. EXHAUST THROUGH ROOF - IBC 2015 SECTION 1017.6.1 EXCEPTION: A DUCT IS PERMITTED TO PENETRATE THREE FLOORS OR LESS WITHOUT A FIRE DAMPER AT EACH FLOOR, PROVIDED SUCH DUCT MEETS ALL OF THE FOLLOWING REQUIREMENTS. (SEE 5 REQUIREMENTS LISTED UNDER 1017.6.1 EXCEPTIONS)

PLAN NOTES:

1. PROVIDE 12 INCH WALL CAP FOR OUTSIDE AIR INTAKE.
2. PROVIDE MOTORIZED DAMPER AND BALANCE OUTSIDE AIR TO 315 CFM. OUTSIDE AIR MOTORIZED DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER SHALL OPEN WHEN UNIT IS ENERGIZED AND CLOSE WHEN UNIT IS OFF.
3. PROVIDE 4" EXHAUST FOR FUTURE USE.
4. ROUTE TIGHT TO GYP. CEILING.

NORTH

01 FIRST FLOOR MECHANICAL PLAN
SCALE: 1/8" = 1'-0"

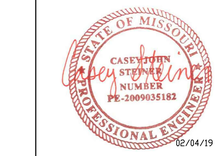
SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182



FIRST FLOOR
MECHANICAL PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@hb-be.com

H&B Project Number: 1820640

PROJECT NO.: 1803

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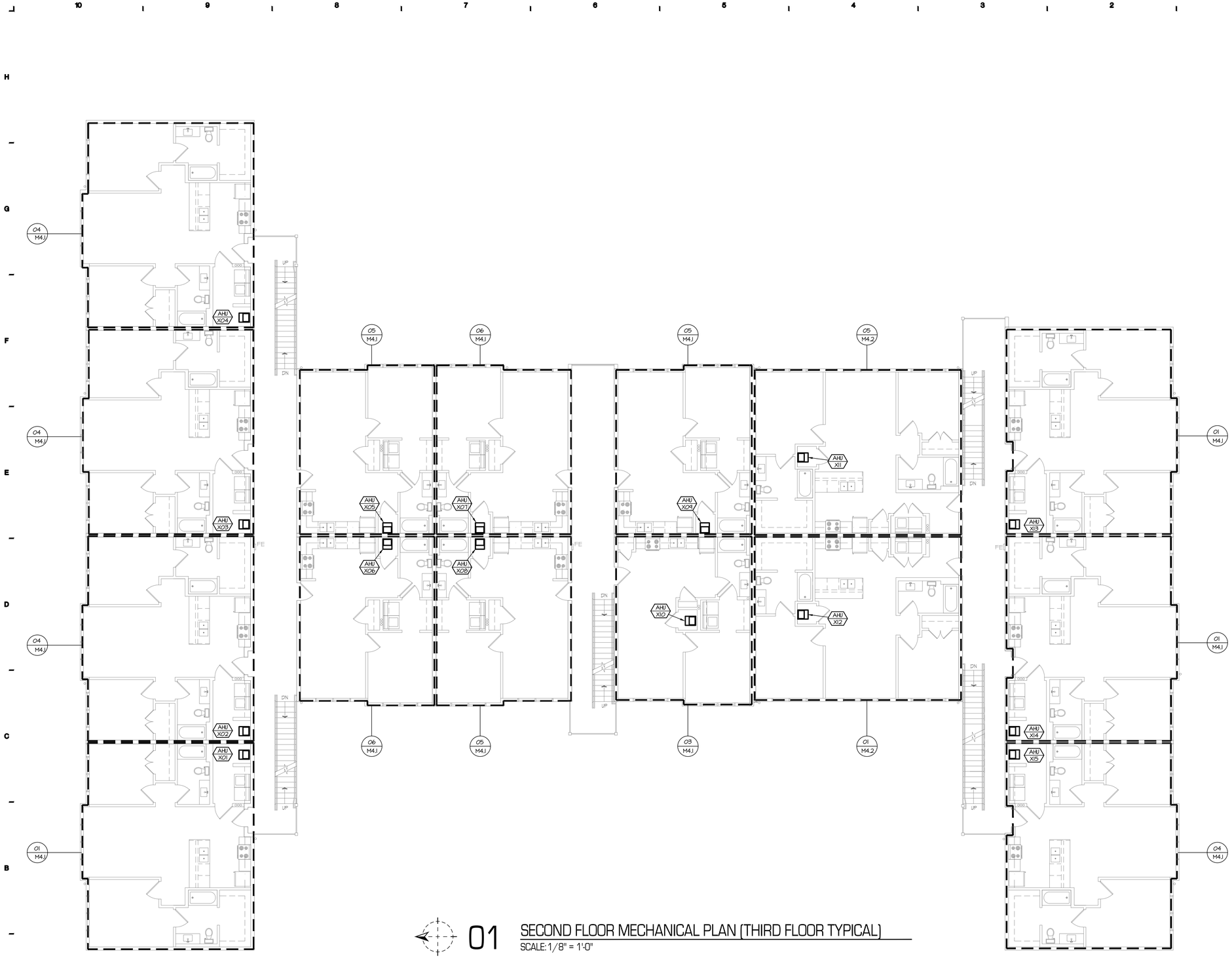


NORTH

01 SECOND FLOOR MECHANICAL PLAN (THIRD FLOOR TYPICAL)

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

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITRED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.

B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.

C. DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.

D. PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.

E. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES.

F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

G. DUCTWORK UPSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX INLET SIZE UNLESS NOTED OTHERWISE. PROVIDE STRAIGHT DUCT AT TERMINAL INLET. STRAIGHT DUCT LENGTH SHALL BE A MINIMUM OF 1 1/2 TIMES THE DIAMETER OF THE INLET DUCT, OR GREATER AS RECOMMENDED BY MANUFACTURER.

H. DUCTWORK DOWNSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX OUTLET SIZE UNLESS NOTED OTHERWISE.

I. BRANCH DUCTWORK TO DIFFUSERS, REGISTERS OR GRILLES SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

J. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.

K. PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO TERMINAL UNITS, BALANCING DAMPERS, TERMINAL UNIT HEATING COIL PIPING, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. COORDINATE WITH THE ARCHITECTURAL TRADES.

L. EXHAUST THROUGH ROOF - IBC 2015 SECTION 1017.6.1 EXCEPTION: A DUCT IS PERMITTED TO PENETRATE THREE FLOORS OR LESS WITHOUT A FIRE DAMPER AT EACH FLOOR, PROVIDED SUCH DUCT MEETS ALL OF THE FOLLOWING REQUIREMENTS. (SEE 5 REQUIREMENTS LISTED UNDER 1017.6.1 EXCEPTIONS)

SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS

1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER
02/04/19

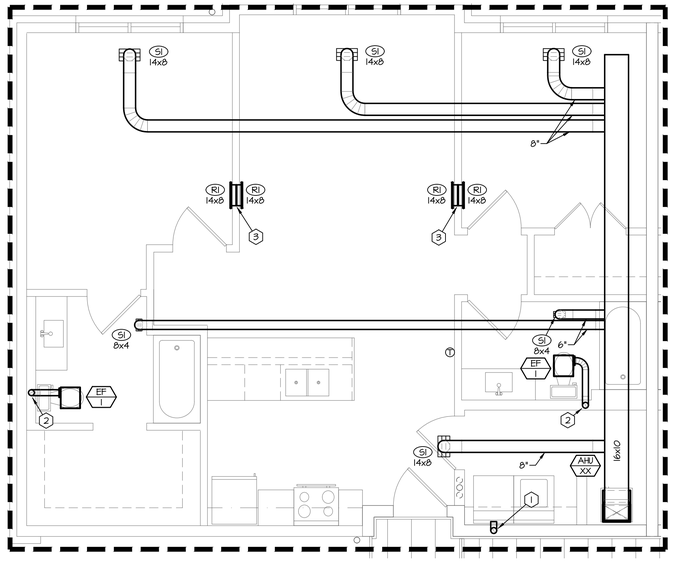
SECOND FLOOR
MECHANICAL PLAN
(THIRD FLOOR TYPICAL)

ISSUE DATE:
02.04.2019
REVISIONS:

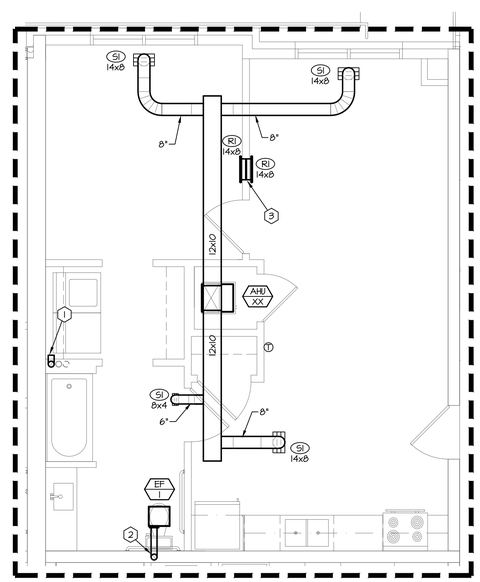
H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@hb-be.com
H&B Project Number: 1820640

PROJECT NO.: 1803

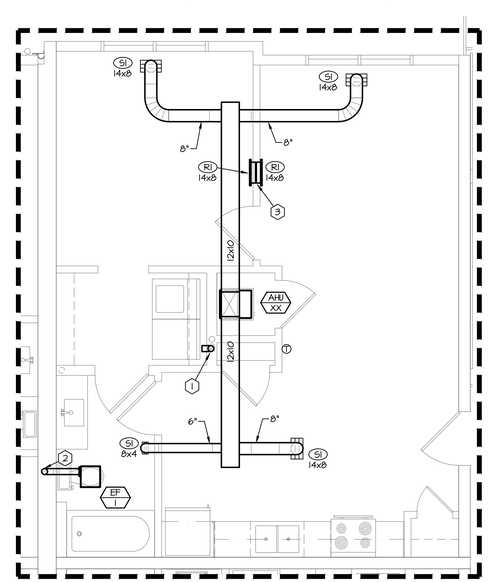
M1.2



01 ENLARGED MECHANICAL PLAN (2 BED REV.)
SCALE: 1/4" = 1'-0"



02 ENLARGED MECHANICAL PLAN (1 BED - TYPE A)
SCALE: 1/4" = 1'-0"



03 ENLARGED MECHANICAL PLAN (1 BED MOD.)
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE SHEET METAL SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL NECESSARY OFFSETS, FITTINGS AND SPECIAL RADIUS OR MITRED ELBOWS WHICH ARE REQUIRED DUE TO SPACE CONSTRAINTS OR OTHER CONDITIONS.

B. COORDINATE THE INSTALLATION OF THE DUCTWORK AND EQUIPMENT WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY SYSTEM COMPONENTS.

C. DUCTWORK SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT OR PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT AND PANELS.

D. PROVIDE ALL MISCELLANEOUS SUPPORTING STEEL, ETC. FOR THE PROPER INSTALLATION OF ALL MECHANICAL SYSTEMS.

E. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH THE ARCHITECTURAL TRADES.

F. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND WALL ELEVATIONS FOR EXACT LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

G. DUCTWORK UPSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX INLET SIZE UNLESS NOTED OTHERWISE. PROVIDE STRAIGHT DUCT AT TERMINAL INLET. STRAIGHT DUCT LENGTH SHALL BE A MINIMUM OF 1 1/2 TIMES THE DIAMETER OF THE INLET DUCT, OR GREATER AS RECOMMENDED BY MANUFACTURER.

H. DUCTWORK DOWNSTREAM OF SUPPLY TERMINAL UNITS SHALL BE BOX OUTLET SIZE UNLESS NOTED OTHERWISE.

I. BRANCH DUCTWORK TO DIFFUSERS, REGISTERS OR GRILLES SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

J. ALL DUCTWORK DIMENSIONS INDICATE THE INSIDE CLEAR DIMENSION.

K. PROVIDE ACCESS DOORS IN HARD CEILING AREAS FOR ACCESS TO TERMINAL UNITS, BALANCING DAMPERS, TERMINAL UNIT HEATING COIL PIPING, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES. COORDINATE WITH THE ARCHITECTURAL TRADES.

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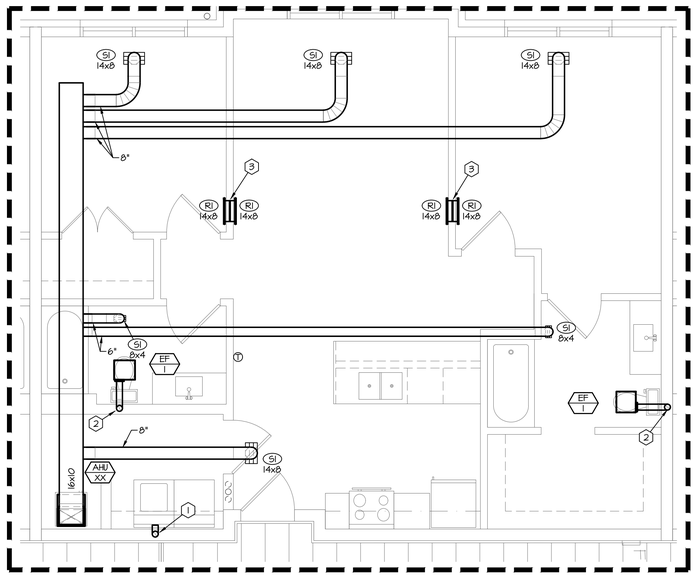
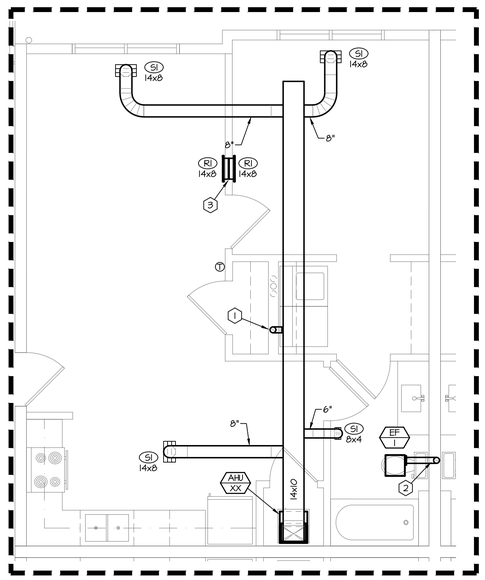
PLAN NOTES:

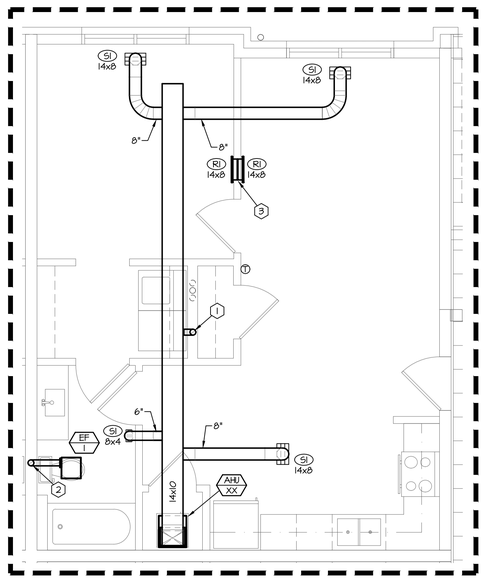
1. 4 INCH DRYER VENT UP.
2. 4 INCH BATHROOM EXHAUST UP.
3. INSTALL RETURN GRILLE HIGH ON WALL IN LIVING SPACE AND LOW ON WALL IN BEDROOM.



04 ENLARGED MECHANICAL PLAN (2 BED)
SCALE: 1/4" = 1'-0"



05 ENLARGED MECHANICAL PLAN (1 BED REV.)
SCALE: 1/4" = 1'-0"



06 ENLARGED MECHANICAL PLAN (1 BED)
SCALE: 1/4" = 1'-0"

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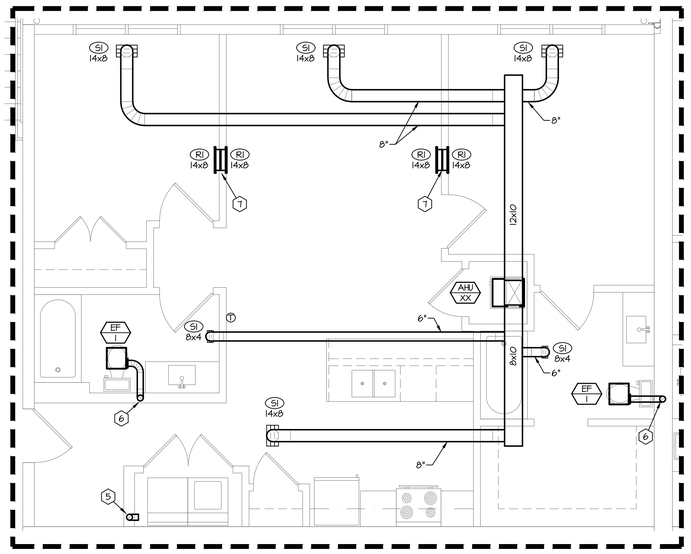
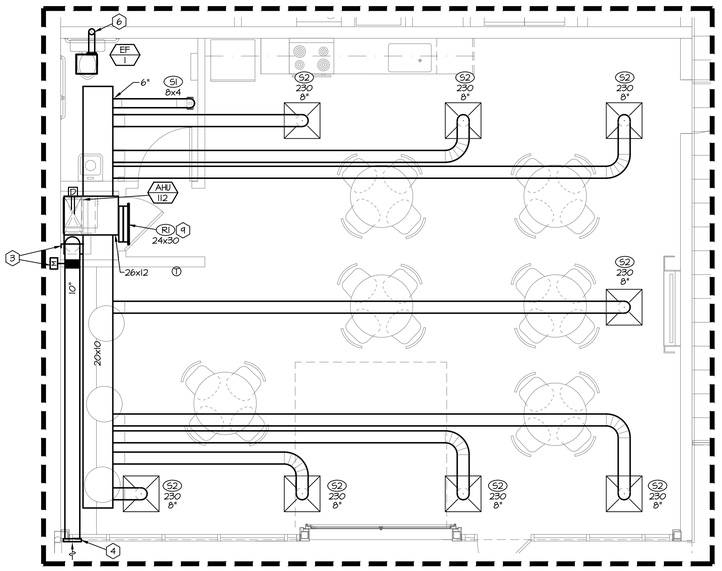
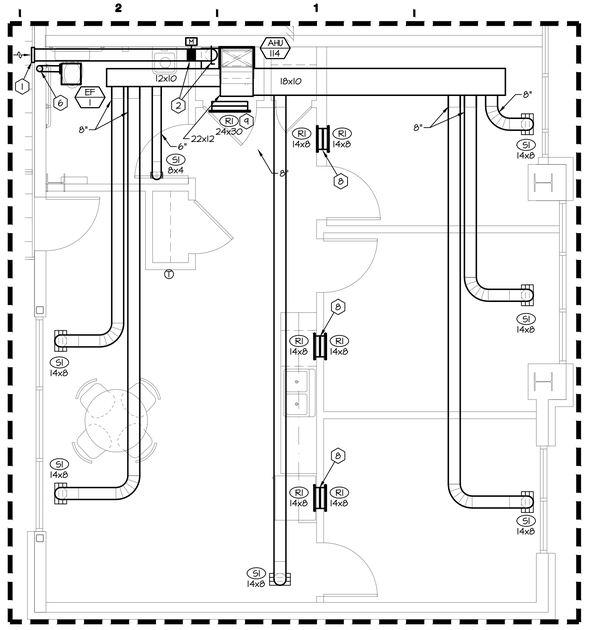
M4.1



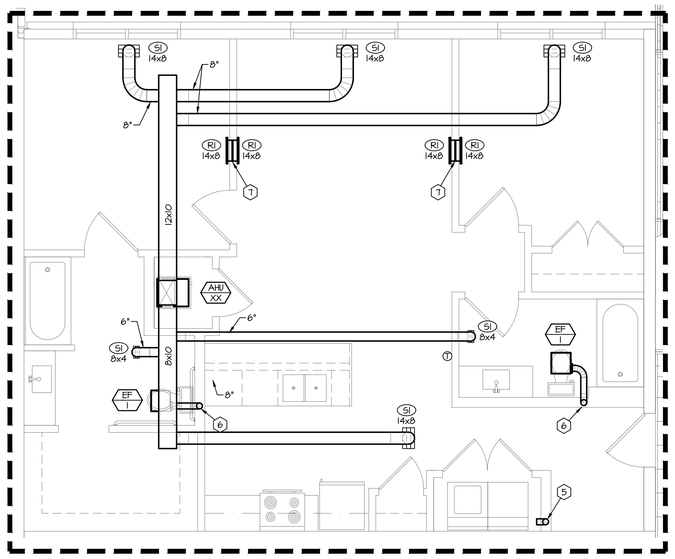
01 ENLARGED MECHANICAL PLAN (2 BED MOD REV.)
SCALE: 1/4" = 1'-0"



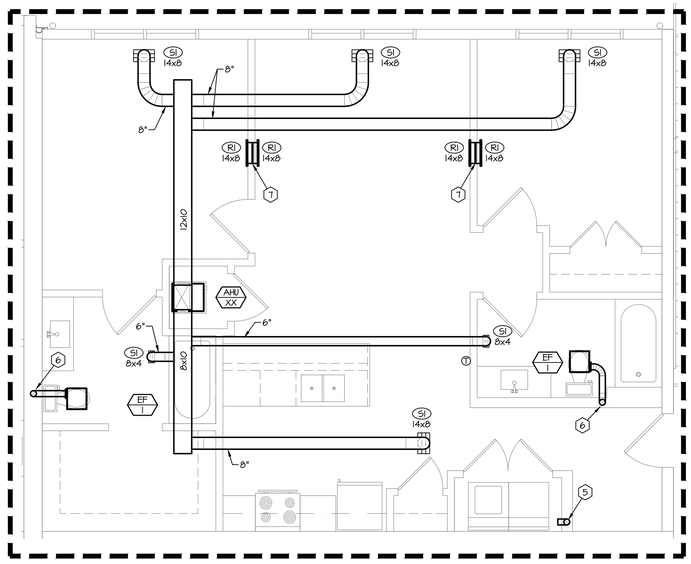
02 ENLARGED COMMUNITY ROOM MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



03 ENLARGED OFFICE SUITE MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



04 ENLARGED ACCESSIBLE 2 BED MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



05 ENLARGED MECHANICAL UNIT PLAN (2 BED MOD.)
SCALE: 1/4" = 1'-0"

PLAN NOTES:

1. PROVIDE 8 INCH WALL CAP FOR OUTSIDE AIR INTAKE. PROVIDE MILL BIRDSCREEN.
2. PROVIDE MOTORIZED DAMPER AND BALANCE OUTSIDE AIR DAMPER TO 110 CFM. OUTSIDE AIR MOTORIZED DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER SHALL OPEN WHEN UNIT IS ENERGIZED AND CLOSE WHEN UNIT IS OFF.
3. PROVIDE MOTORIZED DAMPER AND BALANCE OUTSIDE AIR DAMPER TO 185 CFM. OUTSIDE AIR MOTORIZED DAMPER TO BE INTERLOCKED WITH AIR HANDLING UNIT. DAMPER SHALL OPEN WHEN UNIT IS ENERGIZED AND CLOSE WHEN UNIT IS OFF.
4. PROVIDE 10 INCH WALL CAP FOR OUTSIDE AIR INTAKE. PROVIDE WITH BIRDSCREEN.
5. 4 INCH DRYER VENT UP.
6. 4 INCH BATHROOM EXHAUST UP.
7. INSTALL RETURN GRILLE HIGH ON WALL IN LIVING SPACE AND LOW ON WALL IN BEDROOM.
8. INSTALL RETURN GRILLE HIGH ON WALL IN CORRIDOR AND LOW ON WALL IN OFFICE..
9. INSTALL RETURN GRILLE CENTERED ABOVE CLOSET DOOR.

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Lenexa, Kansas 66214
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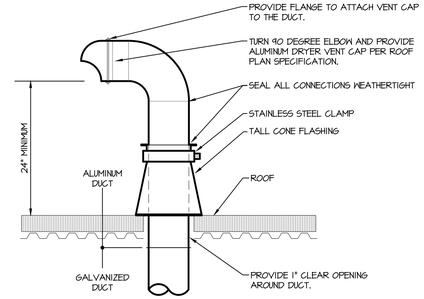
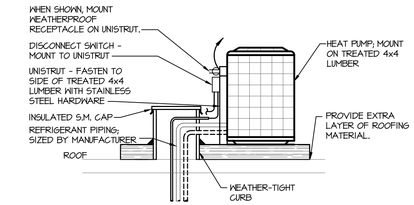
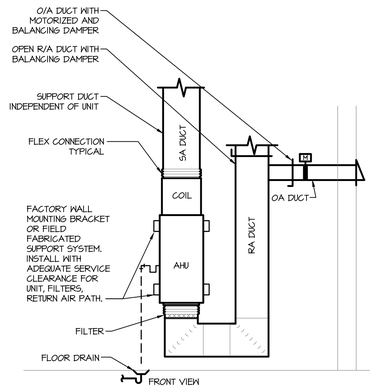


NOTES:
1. DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
2. PROVIDE ROOFING AND FLASHING PER ARCHITECTURAL AND/OR ROOF MANUFACTURER'S REQUIREMENTS.
3. USE POP RIVETS ON ALL DRYER VENT. SHEETMETAL SCREWS ARE NOT ACCEPTABLE.
4. THE MALE END OF THE DUCT AT OVERLAPPED DUCT JOINTS SHALL EXTEND IN THE DIRECTION OF AIRFLOW.

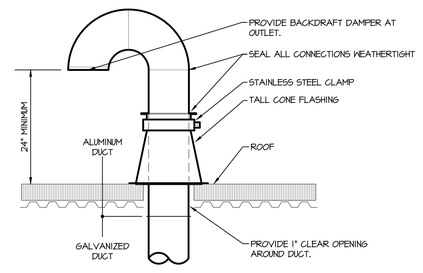
6 Clothes Dryer Roof Vent Detail
Scale: Not to Scale



3 Heat Pump Mounting Detail
Scale: Not to Scale

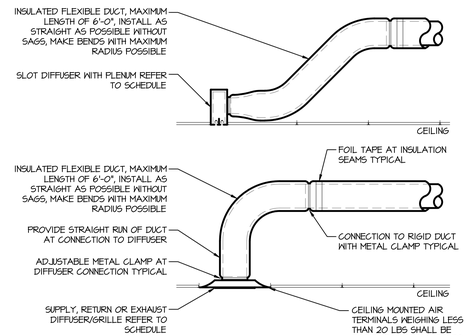


8 Retail Space AHU Detail
Scale: Not to Scale



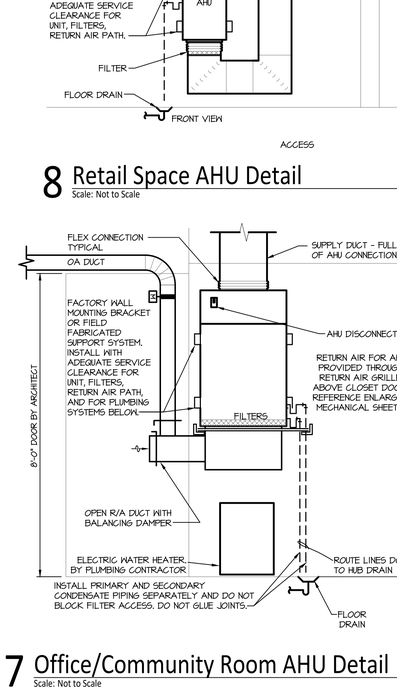
NOTES:
1. DUCT SIZES SHALL BE AS INDICATED ON THE PLANS.
2. PROVIDE ROOFING AND FLASHING PER ARCHITECTURAL AND/OR ROOF MANUFACTURER'S REQUIREMENTS.

5 Round Intake or Exhaust Gooseneck
Scale: Not to Scale

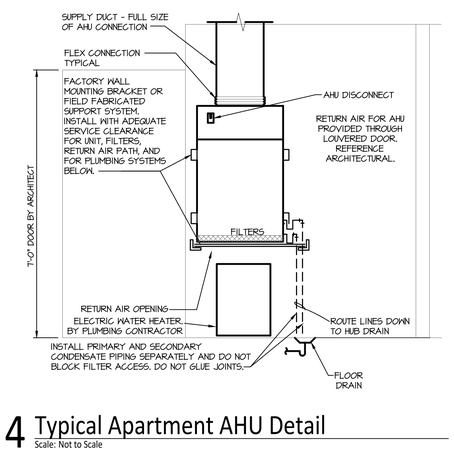


NOTES:
1. DUCT AND DIFFUSER SIZES SHALL BE AS INDICATED ON THE PLANS.
2. SUPPORT DUCTWORK PER SPECIFICATIONS.
3. COORDINATE CEILING TYPES WITH ARCHITECURAL PLANS.

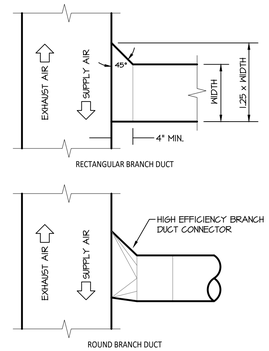
2 Diffuser Connection Detail
Scale: Not to Scale



7 Office/Community Room AHU Detail
Scale: Not to Scale



4 Typical Apartment AHU Detail
Scale: Not to Scale



NOTES:
1. SUPPLY, RETURN AND EXHAUST FITTINGS ARE SIMILAR, ONLY DIRECTION OF AIRFLOW CHANGES.
2. REFER TO FLOOR PLANS FOR BRANCH LOCATIONS REQUIRING BALANCING DAMPERS.

1 Branch Duct Detail
Scale: Not to Scale

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H&B HOSS & BROWN ENGINEERS
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-0090 phone
mail@h-be.com
H&B Project Number: 1820640

SPLIT SYSTEM - AIR HANDLING & HEAT PUMP UNIT SCHEDULE

MARK	MANUFACTURER	MODEL	COOL MBH	SUPPLY FAN CFM	SUPPLY FAN ESP	SUPPLY FAN V/PH	SUPPLY FAN MCA	SUPPLY FAN MOCP	ELEC HEAT NOMINAL KW	ELEC HEAT ACTUAL KW	ELEC HEAT V/PH	ELEC HEAT MCA	ELEC HEAT MOCP	HEAT PUMP MARK	HEAT PUMP MODEL	HEAT PUMP V/PH	HEAT PUMP MCA	HEAT PUMP MOCP	NOTES
AHU-101	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-101	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-102	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-102	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-103	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-103	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-104	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-104	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-105	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-105	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-106	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-106	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-107	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-107	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-108	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-108	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-109	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-109	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-110	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-110	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-111	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-111	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-112	TRANE	TEM4A0C605515A	60.0	2,000	0.5	208/1	8	20	20.0	14.4	208/1	94	100	HP-112	4TWR4060	208/1	32	50	1, 2, 3, 4
AHU-113A	TRANE	TEM4A0C605515A	60.0	2,000	0.5	208/1	8	20	20.0	14.4	208/1	94	100	HP-113A	4TWR4060	208/1	32	50	1, 2, 3, 4
AHU-113B	TRANE	TEM4A0C605515A	60.0	2,000	0.5	208/1	8	20	20.0	14.4	208/1	94	100	HP-113B	4TWR4060	208/1	32	50	1, 2, 3, 4
AHU-114	TRANE	TEM4A0C425415A	42.0	1,400	0.5	208/1	5	20	15.0	10.8	208/1	73	80	HP-114	4TWR4042	208/1	26	45	1, 2, 3, 4
AHU-201	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-201	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-202	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-202	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-203	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-203	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-204	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-204	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-205	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-205	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-206	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-206	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-207	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-207	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-208	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-208	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-209	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-209	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-210	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-210	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-211	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-211	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-212	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-212	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-213	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-213	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-214	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-214	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-215	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-215	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-301	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-301	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-302	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-302	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-303	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-303	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-304	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-304	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-305	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-305	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-306	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-306	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-307	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-307	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-308	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-308	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-309	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-309	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-310	TRANE	TEM4A0B185215B	18.0	600	0.5	208/1	2	20	8.0	5.76	208/1	36	40	HP-310	4TWR4018	208/1	9	20	1, 2, 3, 4
AHU-311	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-311	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-312	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-312	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-313	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-313	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-314	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-314	4TWR4024	208/1	14	25	1, 2, 3, 4
AHU-315	TRANE	TEM4A0B245215B	24.0	800	0.5	208/1	2	20	8.0	7.2	208/1	45	45	HP-315	4TWR4024	208/1	14	25	1, 2, 3, 4

NOTES:

1. PROVIDE PROGRAMMABLE THERMOSTAT TYPICAL OF HONEYWELL VISION PRO 8000.
2. AIR HANDLING UNIT TO BE VERTICAL UPFLOW CONFIGURATION.
3. DISCONNECT TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
4. PROVIDE WALL-MOUNTING KIT FROM MANUFACTURER

GENERAL NOTES:

A. CHANGE FILTER AFTER UNIT START-UP, DURING FINISH WORK AND FINAL PUNCH. DO NOT OPERATE UNITS DURING DRYWALL SANDING.
B. PROVIDE A SECONDARY DRAIN PAN FOR ALL COOLING COILS AND ROUTE 3/4" CONDENSATE LINE TO ADJACENT FLOOR DRAIN, INDEPENDENT OF PRIMARY CONDENSATE DRAIN.
C. UNIT MANUFACTURER SHALL MAKE COOLING COIL SELECTION. UNIT MANUFACTURER AND INSTALLING CONTRACTOR SHALL SIZE REFRIGERANT PIPING FOR THE FINAL FIELD ROUTING, ELEVATION CHANGES AND CONDENSER LOCATIONS. PROVIDE TRAPS INCLUDING INVERTED LIQUID OIL TRAP AT INDOOR EVAPORATOR COIL, TXV, ADDITIONAL REFRIGERANT, LOW VOLTAGE STARTER KIT, OFF CYCLE TIMER, CRANKCASE HEATER AND ACCUMULATOR AS REQUIRED FOR PROPER OPERATION OF THE SYSTEM.
D. PROVIDE A MINIMUM 3/8" LIQUID REFRIGERANT LINES ON ALL SYSTEMS.
E. COOLING LOADS BASED ON 105 DEGREES F AMBIENT TEMPERATURE.
F. COOLING MBH INDICATES THE MINIMUM NET COOLING MBH REQUIRED FROM UNIT AT CFM LISTED IN SCHEDULE.
G. KW OUT INDICATES THE MINIMUM NET HEATING KW REQUIRED FROM UNIT.
H. MAXIMUM LINE LENGTH IS 150 FT.
I. AIR HANDLER COILS SHALL BE ALUMINUM.
J. ELECTRICAL CONTRACTOR SHALL PROVIDE SMOKE DETECTORS IN THE MAIN SUPPLY DUCT AND INTERLOCK WITH UNIT PER CODE FOR UNITS THAT EXCEED 2,000 CFM.

ELECTRIC WALL HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	KW	V/PH	MCA	MOCP	NOTES
EWH-01	Q-MARK	QWH3508F	4.8	208/1	28.8	30	1
EWH-02	Q-MARK	QWH3508F	4.8	208/1	28.8	30	1

NOTES:

1. PROVIDE WITH MANUFACTURER'S SURFACE MOUNTING FRAME.

GENERAL NOTES (APPLY TO ALL ABOVE):

A. PROVIDE WITH INTEGRAL THERMOSTAT AND DISCONNECTING MEANS

GRILLE, REGISTER, & DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	SERVICE	FACE SIZE	NECK SIZE	DAMPER	NOTES
S1	US AIRE	102M	SUPPLY	"SEE PLAN"	"SEE PLAN"	YES	1
S2	US AIRE	4750-6	SUPPLY	24 x 24	8"	YES	1
S3	US AIRE	4000SVM	SUPPLY	24 x10	-	YES	
R1	US AIRE	1400	RETURN	"SEE PLAN"	-	NO	

NOTES:

1. PROVIDE WITH RUSKIN CFDTT CEILING FIRE DAMPER UL CLASSIFIED FOR WOOD TRUS CONSTRUCTION. DAMPER SIZE SHALL BE SAME AS DIFFUSER FACE SIZE. SHALL ONLY APPLY WHEN PENETRATING A FIRE-RATED ASSEMBLY. PROVIDE SINGLE DEFLECTION GRILLE.

GENERAL NOTES (APPLY TO ALL ABOVE):

A. PROVIDE MOUNTING FRAME TO MATCH CEILING TYPE. VERIFY WITH ARCHITECT'S PLANS PRIOR TO ORDERING.
B. MAXIMUM NC OF 30 FOR ALL GRILLES, REGISTERS, AND DIFFUSERS.
C. WHERE NOT NOTED, DIFFUSER NECK SIZE SHALL BE THE SAME AS THE BRANCH DUCT SIZE.
D. UNLESS NOTED OTHERWISE, COLOR SHALL BE STANDARD WHITE.
E. FOUR-WAY THROW PATTERN FOR SQUARE DIFFUSERS UNLESS NOTED OTHERWISE.

FAN SCHEDULE

MARK	MANUFACTURER	MODEL	CFM	S.P.	DRIVE	BHP	HP	RPM	dBA	V/PH	NOTES
EF-1	BROAN	AE80L	50	0.25	DIRECT	26.9 W	--	-	28	120/1	1, 2

NOTES:

1. PROVIDE WITH FACTORY INSTALLED AND WIRED DISCONNECT.
2. PROVIDE WITH BROAN RDMI RADIATION DAMPER.

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315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS

1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER
02/04/19

MECHANICAL SCHEDULES

ISSUE DATE:
02.04.2019
REVISIONS:

H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@hb-be.com
H&B Project Number: 1820640

PROJECT NO.: 1803

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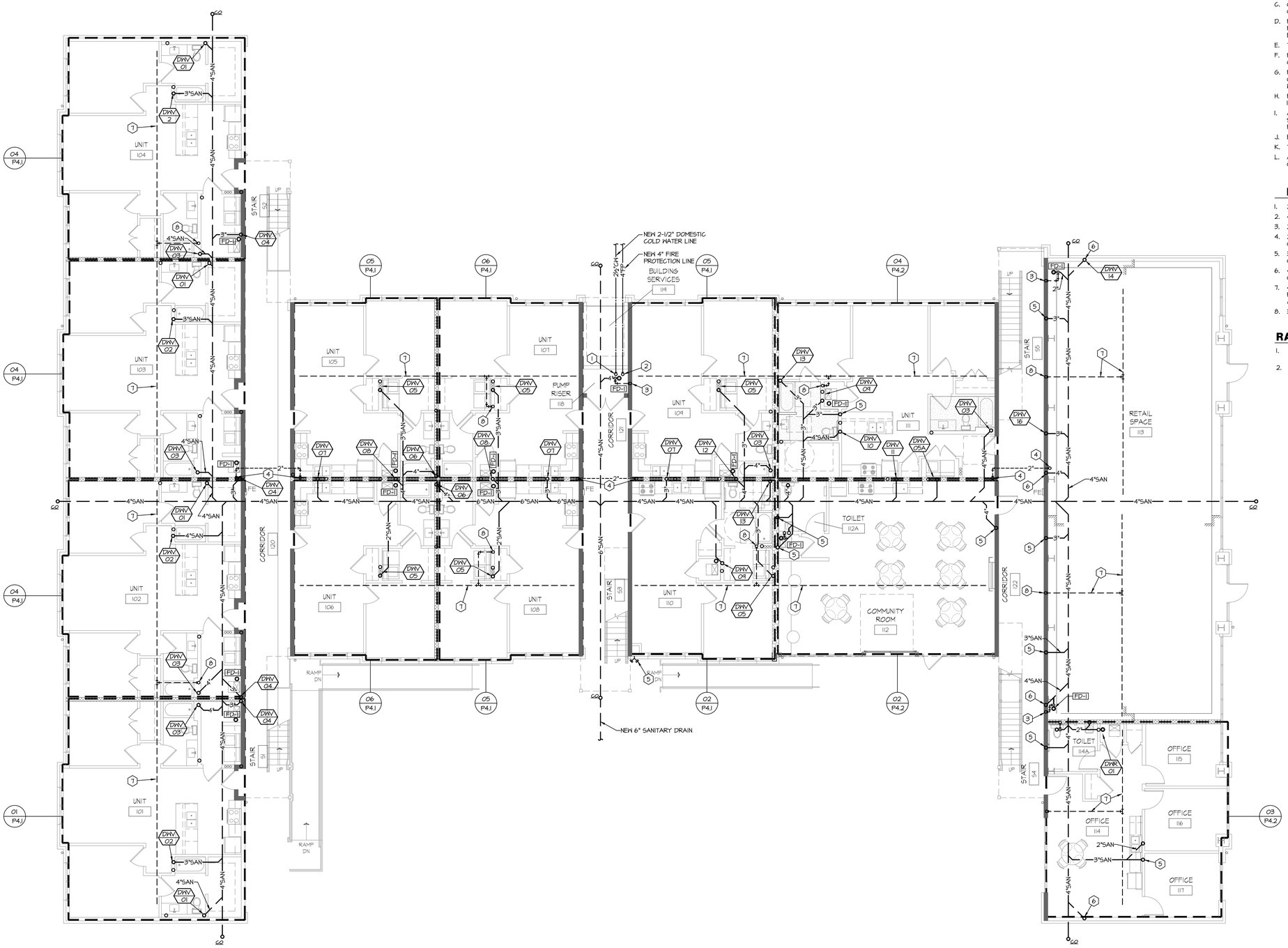

GENERAL NOTES:

A. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, DUCTWORK, ETC.

B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.

C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.

D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT.

E. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW OTHER EQUIPMENT.

F. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.

G. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE LOCATION OR OPERABLE WINDOW.

H. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.

I. ALL OPENINGS TO UNCONDITIONED SPACES OR BUILDING EXTERIOR ARE SEALED WITH BLOCKING OR FLASHING. GAPS ARE SEALED WITH CAULK OR FOAM.

J. BELOW GRADE WATER PIPING SHALL BE SOFT COPPER WITH NO JOINTS.

K. TAG ALL SHUTOFF VALVES WITH UNIT IT SERVES.

L. ALL PENETRATIONS THRU THE ROOF SHALL BE LOCATED ON THE BACKSIDE OF THE ROOF SO THEY ARE NOT VISIBLE FROM THE STREET.

PLAN NOTES:

1. 2-1/2" DOMESTIC WATER SERVICE ENTRANCE.
2. 4" FIRE PROTECTION LINE.
3. 2" VENT UP. REFER TO SHEET P1.1 FOR CONTINUATION.
4. 2" COLD WATER LINE UP TO ABOVE GRADE. REFER TO SHEET P1.1 FOR CONTINUATION.
5. 3" SANITARY DRAIN LINE UP TO UPPER LEVELS. REFER TO SHEET P1.1 FOR CONTINUATION.
6. 4" SANITARY DRAIN LINE UP TO UPPER LEVELS. REFER TO SHEET P1.1 FOR CONTINUATION.
7. 4" PERFORATED PVC PIPING INSTALLED IN CENTER OF GRAVEL LAYER FOR RADON CONTROL SYSTEM. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ICC IRC APPENDIX F.
8. 3" PVC PIPE UP THROUGH ROOF FOR PASSIVE RADON CONTROL SYSTEM.

RADON CONTROL SYSTEM NOTES:

1. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ICC IRC APPENDIX F.
2. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS OR OTHER FLOOR ASSEMBLIES SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

NORTH

01 FIRST FLOOR BELOW GRADE PLUMBING PLAN
SCALE: 1/8" = 1'-0"

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OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER
02/04/19

FIRST FLOOR BELOW GRADE PLUMBING PLAN

ISSUE DATE:
02.04.2019

REVISIONS:

H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362.9090 phone
mail@hb-be.com
H&B Project Number: 1820640

PROJECT NO.: 1803

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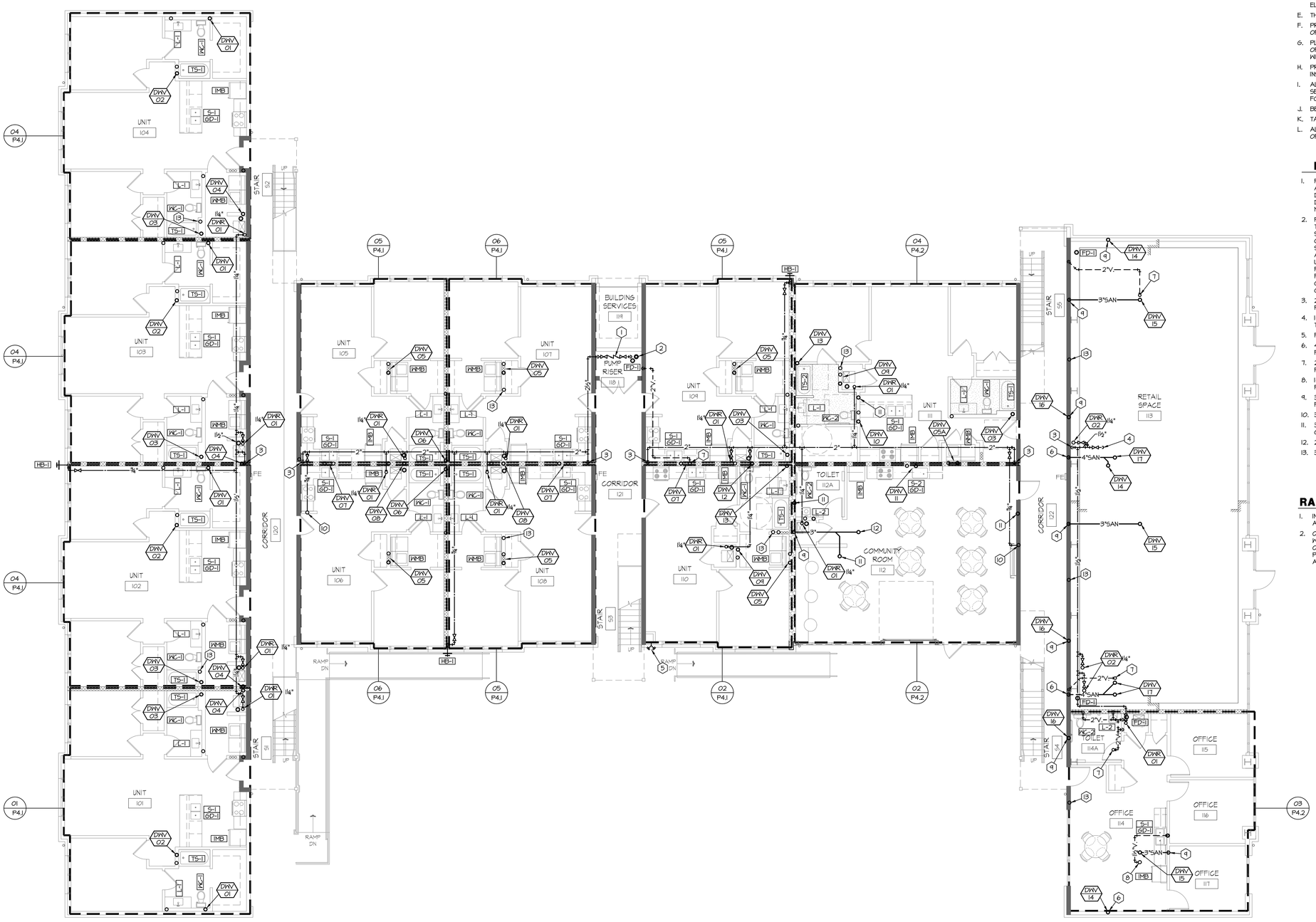

01 FIRST FLOOR ABOVE GRADE PLUMBING PLAN
SCALE: 1/8" = 1'-0"

NORTH

GENERAL NOTES:

A. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, DUCTWORK, ETC.
B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT.
E. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW OTHER EQUIPMENT.
F. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
G. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE LOCATION OR OPERABLE WINDOW.
H. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
I. ALL OPENINGS TO UNCONDITIONED SPACES OR BUILDING EXTERIOR ARE SEALED WITH BLOCKING OR FLASHING; GAPS ARE SEALED WITH CAULK OR FOAM.
J. BELOW GRADE WATER PIPING SHALL BE SOFT COPPER WITH NO JOINTS.
K. TAG ALL SHUTOFF VALVES WITH UNIT IT SERVES.
L. ALL PENETRATIONS THRU THE ROOF SHALL BE LOCATED ON THE BACKSIDE OF THE ROOF SO THEY ARE NOT VISIBLE FROM THE STREET.

PLAN NOTES:

1. PROVIDE A NEW 2-1/2" REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY AT THIS LOCATION, FEBCO MODEL 825YD OR EQUIVALENT, SEE DETAIL ON DRAWINGS. THE FIRE SPRINKLER CONTRACTOR (FSC) SHALL BE RESPONSIBLE FOR THE DESIGN, LAYOUT, MATERIALS AND COMPLETE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEM. THE FSC SHALL PREPARE ALL NEEDED DRAWINGS TO MEET N.F.P.A. REQUIREMENTS AND HAVE APPROVAL OF ALL LOCAL, STATE AND INSURANCE UNDERWRITING AUTHORITIES. THE SYSTEM SHALL BE TESTED UNDER PRESSURE BY THE FSC AND INSPECTED AND APPROVED BY THE LOCAL FIRE MARSHALL PRIOR TO ACCEPTANCE BY OWNER. THE FSC SHALL COORDINATE LOCATION OF THE ENTIRE SPRINKLER SYSTEM WITH ALL OTHER TRADES.
2. 2" COLD WATER LINE DOWN TO BELOW GRADE. REFER TO BELOW GRADE PLUMBING PLAN SHEET P0.1 FOR CONTINUATION.
3. 1-1/4" COLD WATER WITH SHUTOFF VALVE AND CAPPED FOR FUTURE TENANT.
4. FIRE DEPARTMENT CONNECTION.
5. 4" SANITARY DRAIN LINE DOWN TO BELOW GRADE. REFER TO SHEET P0.1 FOR CONTINUATION.
6. 2" VENT UP. REFER TO SECOND & THIRD FLOOR PLUMBING PLANS SHEET P1.2 FOR CONTINUATION.
7. 1-1/2" VENT UP. REFER TO SECOND & THIRD FLOOR PLUMBING PLANS SHEET P1.2 FOR CONTINUATION.
8. 3" SANITARY DRAIN LINE DOWN TO BELOW GRADE. REFER TO FIRST FLOOR BELOW GRADE PLUMBING PLAN SHEET P0.1 FOR CONTINUATION.
9. 3/4" COLD WATER LINE UP TO ROOF TO SERVE ROOF HYDRANT RH-1.
10. 3" SANITARY DRAIN LINE UP TO SECOND FLOOR, AND DOWN TO BELOW GRADE.
11. 2" SANITARY DRAIN LINE UP TO SECOND FLOOR.
12. 3" PVC PIPE UP THROUGH ROOF FOR PASSIVE RADON SYSTEM.

RADON CONTROL SYSTEM NOTES:

1. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH IGC IRC APPENDIX F.
2. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS OR OTHER FLOOR ASSEMBLIES SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

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REVISIONS:

H&B HOSS & BROWN ENGINEERS
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-0090 phone
mail@h-b-e.com
H&B Project Number: 1820640

PROJECT NO.: 1803

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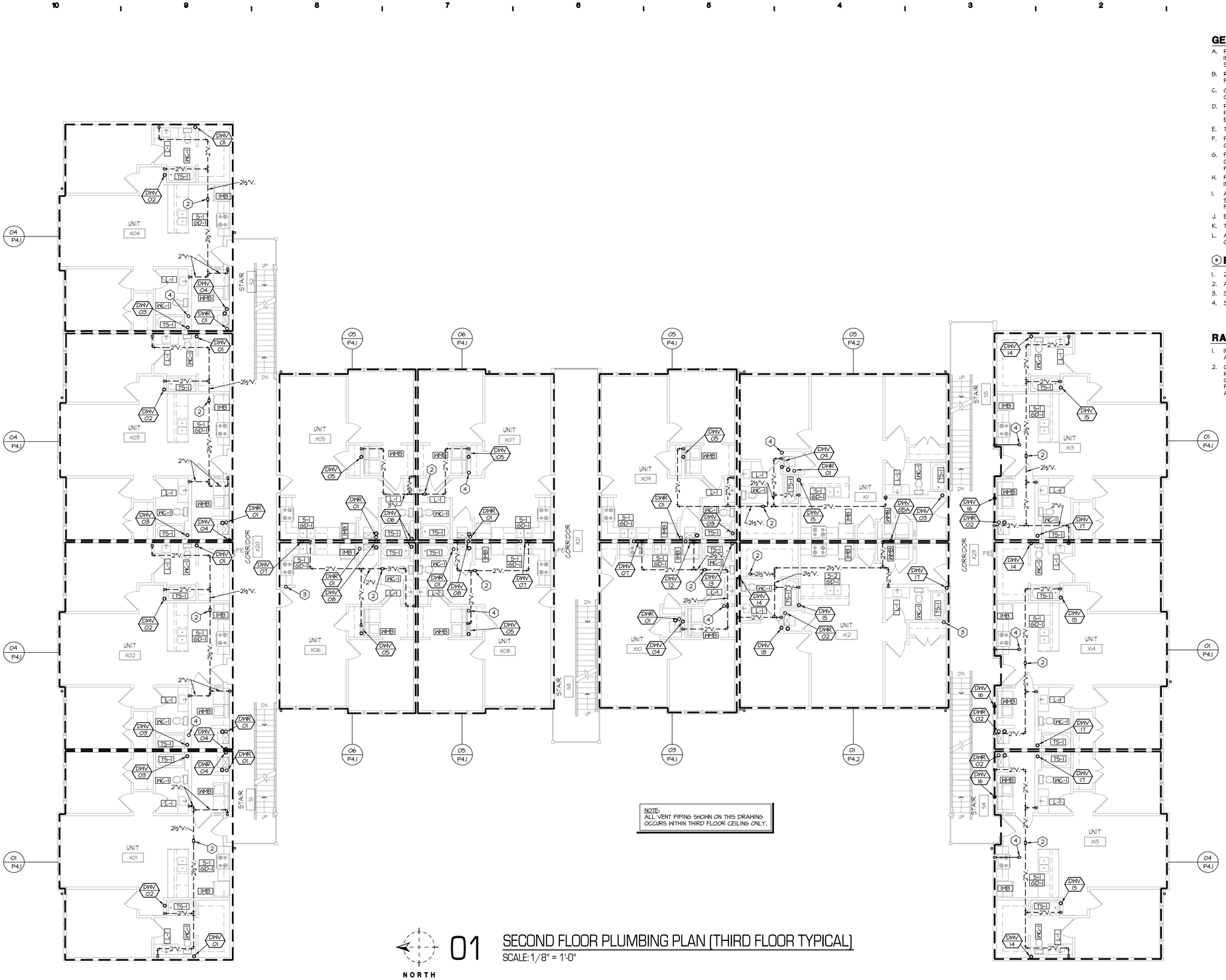

NOTE:
ALL VENT PIPING SHOWN ON THIS DRAWING OCCURS WITHIN THIRD FLOOR CEILING ONLY.

NOTE: PLUMBING CONTRACTOR SHALL INSTALL 6" SPACER, PROVIDED BY WATER SUB-METERING COMPANY, AT AN ACCESSIBLE LOCATION DOWNSTREAM OF MAIN DOMESTIC WATER SHUT-OFF IN EACH DWELLING UNIT. SUB-METER AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED BY OTHERS.

NORTH

01 SECOND FLOOR PLUMBING PLAN (THIRD FLOOR TYPICAL)

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

GENERAL NOTES:

A. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, DUCTWORK, ETC.
B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT.
E. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW OTHER EQUIPMENT.
F. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
G. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE LOCATION OR OPERABLE WINDOW.
H. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
I. ALL OPENINGS TO UNCONDITIONED SPACES OR BUILDING EXTERIOR ARE SEALED WITH BLOCKING OR FLASHING. GAPS ARE SEALED WITH CAULK OR FOAM.
J. BELOW GRADE WATER PIPING SHALL BE SOFT COPPER WITH NO JOINTS.
K. TAG ALL SHUTOFF VALVES WITH UNIT IT SERVES.
L. ALL PENETRATIONS THRU THE ROOF SHALL BE LOCATED ON THE BACKSIDE OF THE ROOF SO THEY ARE NOT VISIBLE FROM THE STREET.

⑨ PLAN NOTES:

1. 2" VENT DOWN TO FIRST FLOOR.
2. AT THIRD FLOOR CEILING, 3" VENT UP TO 3" VENT THRU ROOF.
3. 3/4" COLD WATER LINE UP TO ROOF HYDRANT RH-1 ON ROOF.
4. 3" PVC PIPE UP THROUGH ROOF FOR PASSIVE RADON SYSTEM.

RADON CONTROL SYSTEM NOTES:

1. INSTALL RADON CONTROL SYSTEM IN ACCORDANCE WITH ICC IRC APPENDIX F.
2. OPENINGS AROUND BATHTUBS, SHOWERS, WATER CLOSETS, PIPES, WIRES OR OTHER OBJECTS THAT PENETRATE CONCRETE SLABS OR OTHER FLOOR ASSEMBLIES SHALL BE FILLED WITH A POLYURETHANE CAULK OR EQUIVALENT SEALANT APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

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Y GARDENS APARTMENTS
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SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

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STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER
02/04/19

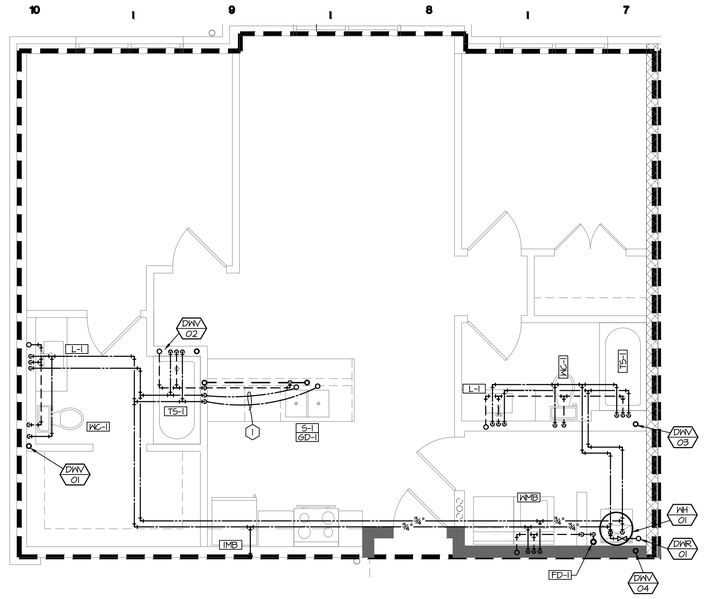
SECOND FLOOR
PLUMBING PLAN
(THIRD FLOOR TYPICAL)

ISSUE DATE:
02.04.2019
REVISIONS:

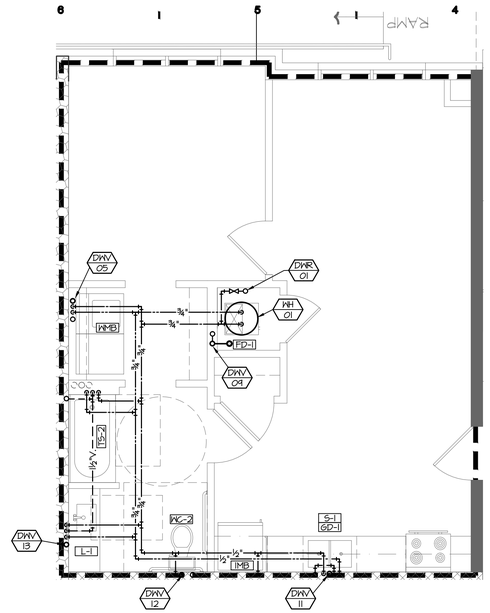
H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@h-be.com
H&B Project Number: 1820640

PROJECT NO.: 1803

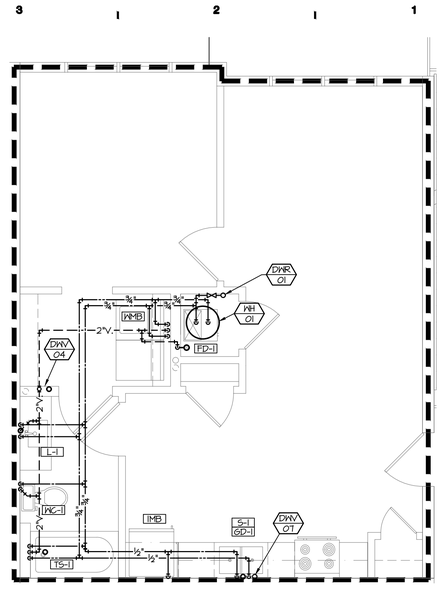
P1.2



01 ENLARGED PLUMBING PLAN (2 BED REV.)
SCALE: 1/4" = 1'-0"



02 ENLARGED PLUMBING PLAN (1 BED - TYPE A)
SCALE: 1/4" = 1'-0"



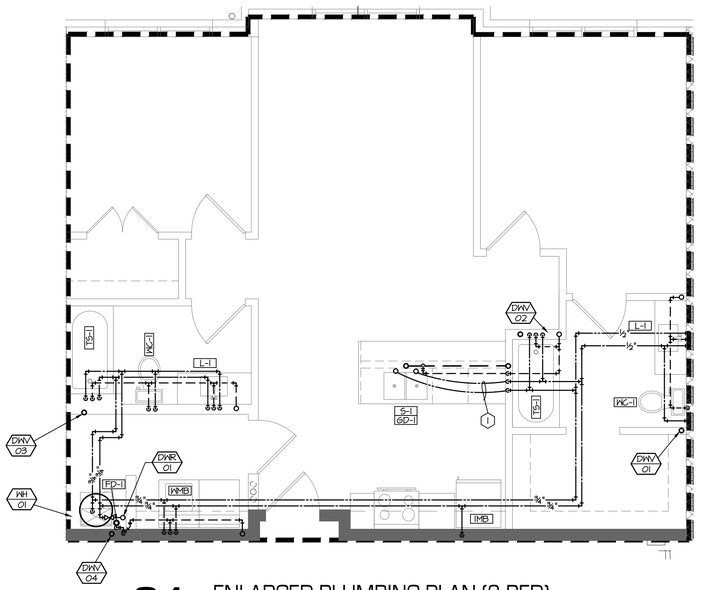
03 ENLARGED PLUMBING PLAN (1 BED MOD.)
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

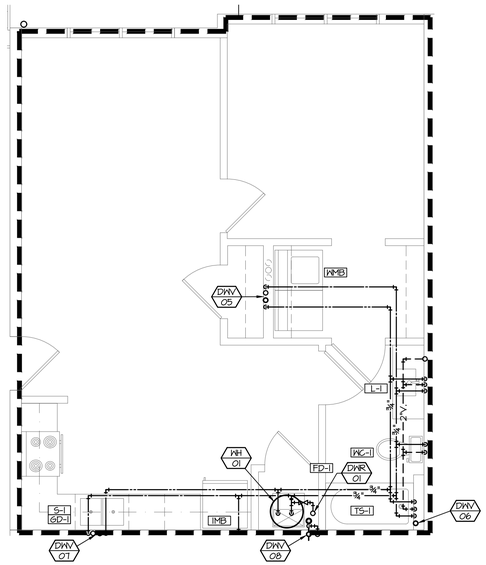
A. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, DUCTWORK, ETC.
B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.
C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT.
E. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW OTHER EQUIPMENT.
F. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
G. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE LOCATION OR OPERABLE WINDOW.
H. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
I. ALL OPENINGS TO UNCONDITIONED SPACES OR BUILDING EXTERIOR ARE SEALED WITH BLOCKING OR FLASHING: GAPS ARE SEALED WITH CAULK OR FOAM.
J. BELOW GRADE WATER PIPING SHALL BE SOFT COPPER WITH NO JOINTS.
K. TAG ALL SHUTOFF VALVES WITH UNIT IT SERVES.
L. ALL PENETRATIONS THRU THE ROOF SHALL BE LOCATED ON THE BACKSIDE OF THE ROOF SO THEY ARE NOT VISIBLE FROM THE STREET.

(1) PLAN NOTES:

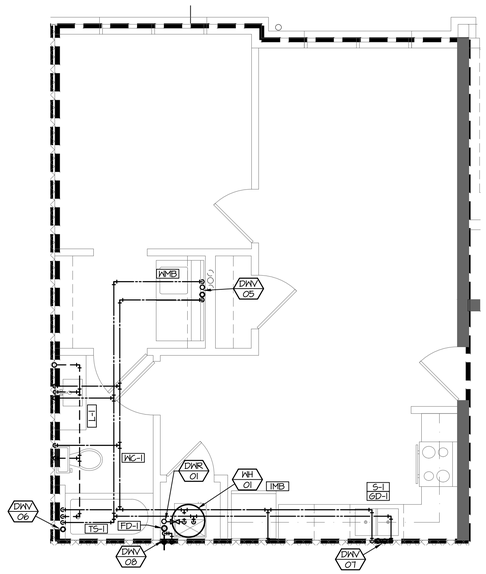
1. ROUTE WATER PIPING DOWN WALL TO BELOW COUNTER FOR KITCHEN SINK.



04 ENLARGED PLUMBING PLAN (2 BED)
SCALE: 1/4" = 1'-0"



05 ENLARGED PLUMBING PLAN (1 BED REV.)
SCALE: 1/4" = 1'-0"



06 ENLARGED PLUMBING PLAN (1 BED)
SCALE: 1/4" = 1'-0"

HOSS & BROWN ENGINEERS
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@h-b-e.com
H&B Project Number: 1820640

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

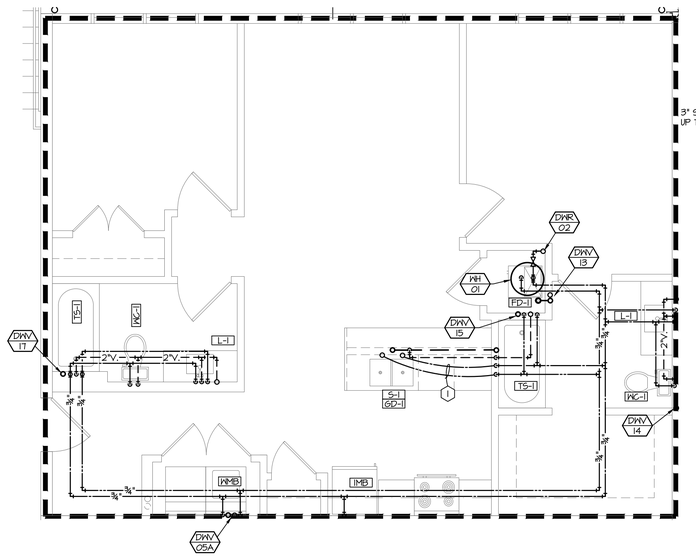
STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER
02/04/19

ENLARGED
PLUMBING PLANS

ISSUE DATE:
02.04.2019
REVISIONS:

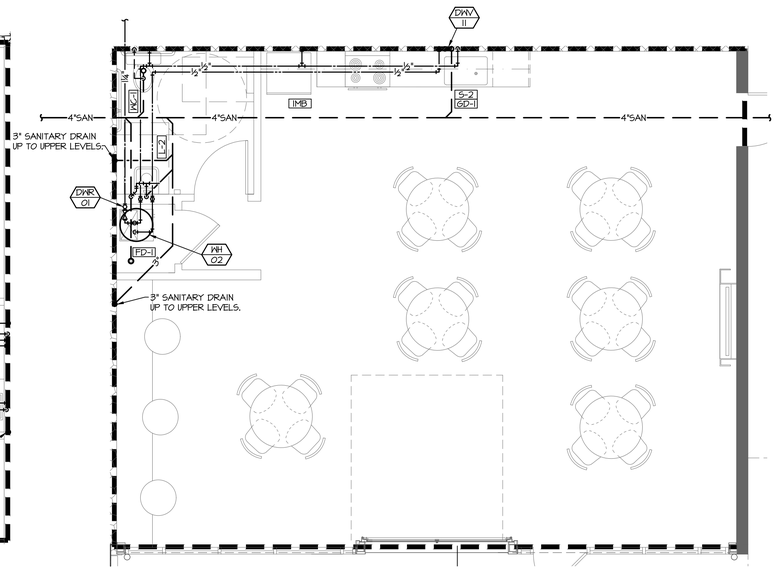
PROJECT NO.: 1803

P4.1



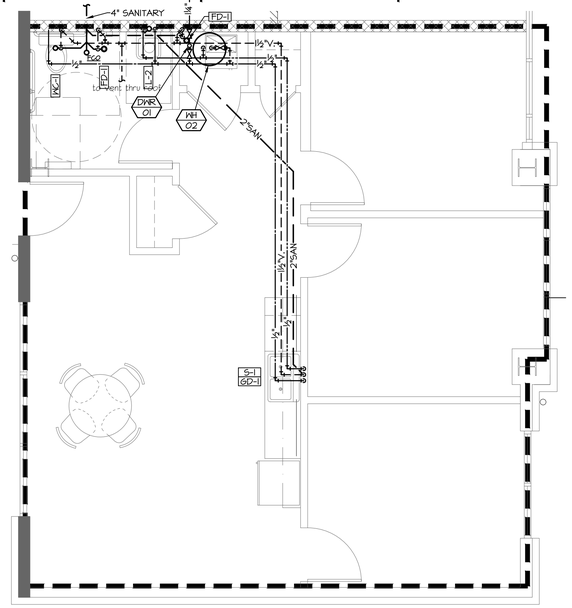
01 ENLARGED PLUMBING PLAN (2 BED MOD REV.)

SCALE: 1/4" = 1'-0"



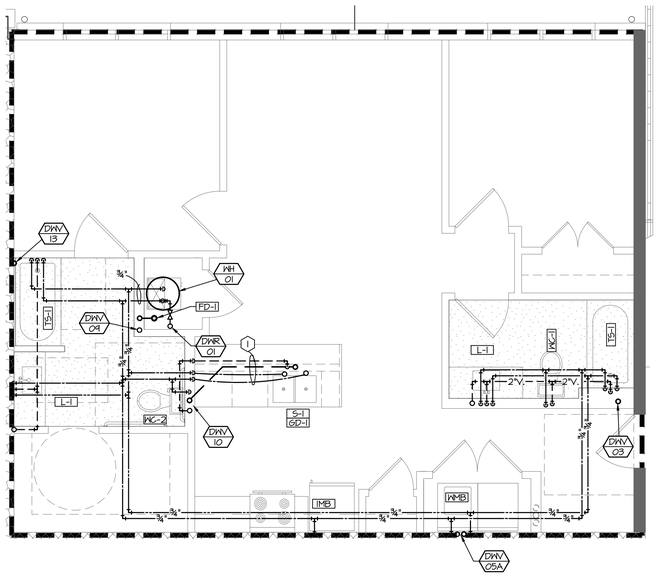
02 ENLARGED COMMUNITY ROOM PLUMBING PLAN

SCALE: 1/4" = 1'-0"



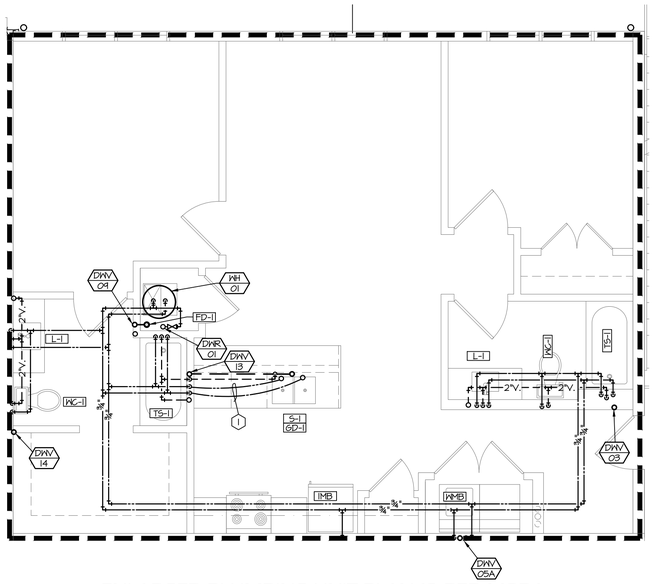
03 ENLARGED OFFICE SUITE PLUMBING PLAN

SCALE: 1/4" = 1'-0"



04 ENLARGED ACCESSIBLE 2 BED PLUMBING PLAN

SCALE: 1/4" = 1'-0"



05 ENLARGED PLUMBING UNIT PLAN (2 BED MOD.)

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES INCLUDING ALL REQUIRED COMPONENTS, OFFSETS REQUIRED TO AVOID THE STRUCTURE, DUCTWORK, ETC.

B. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATIONS OF PLUMBING FIXTURES.

C. COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.

D. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE THE CODE REQUIRED WORKING CLEARANCE AROUND ALL ELECTRICAL EQUIPMENT.

E. THE CONTRACTOR SHALL NOT LOCATE PIPING BELOW OTHER EQUIPMENT.

F. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.

G. PLUMBING VENT PIPING THROUGH THE ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" AWAY FROM ANY FRESH AIR INTAKE LOCATION OR OPERABLE WINDOW.

H. PROVIDE THE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.

I. ALL OPENINGS TO UNCONDITIONED SPACES OR BUILDING EXTERIOR ARE SEALED WITH BLOCKING OR FLASHING. GAPS ARE SEALED WITH CAULK OR FOAM.

J. BELOW GRADE WATER PIPING SHALL BE SOFT COPPER WITH NO JOINTS.

K. TAG ALL SHUTOFF VALVES WITH UNIT IT SERVES.

L. ALL PENETRATIONS THRU THE ROOF SHALL BE LOCATED ON THE BACKSIDE OF THE ROOF SO THEY ARE NOT VISIBLE FROM THE STREET.

① PLAN NOTES:

1. ROUTE WATER PIPING DOWN WALL TO BELOW COUNTER FOR KITCHEN SINK.

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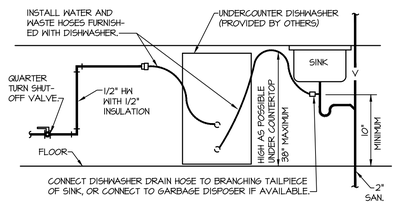
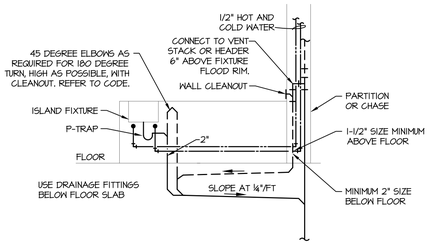


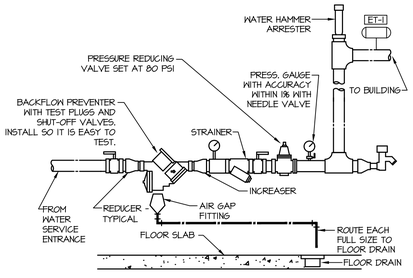
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST IF/AS REQUIRED FOR SITE. PROVIDE CONNECTIONS AS RECOMMENDED BY EQUIPMENT MANUFACTURER.

1 Dishwasher Connection Detail
Scale: Not to Scale



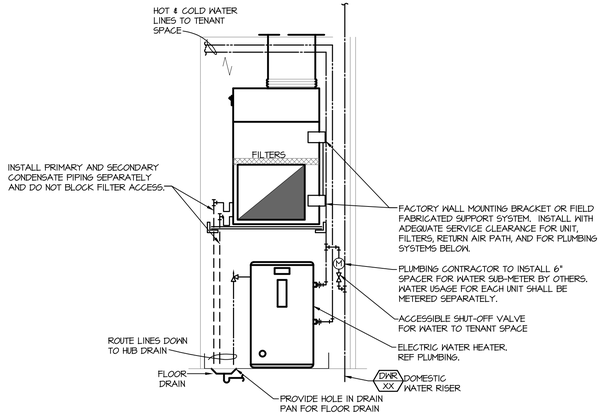
NOTES:
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST AS REQUIRED TO SUIT ACTUAL CONDITIONS. REFER TO FLOOR PLANS. PROVIDE SIMILAR SEPARATE SYSTEM FOR EACH FIXTURE. REFER TO LOCAL CODE FOR OTHER INFORMATION.

3 Island Fixture Vent
Scale: Not to Scale



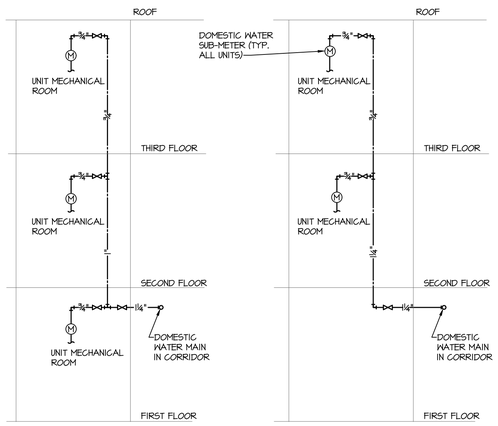
PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER OF TYPE AND MANUFACTURER AS APPROVED BY LOCAL AUTHORITIES AND DEPARTMENT OF NATURAL RESOURCES. INSTALL BFP IN HORIZONTAL UPRIGHT POSITION, UNLESS NOTED OTHERWISE. STRAINER AND REDUCING VALVES MAY BE INSTALLED IN VERTICAL PIPE IF SPACE LIMITATIONS REQUIRE. CLEAN STRAINER BEFORE TURNING BUILDING OVER TO OWNER. PROVIDE ANY REQUIRED CERTIFICATION TEST OF BFP TO LOCAL AUTHORITIES. ALL ITEMS SHALL BE APPROVED FOR DOMESTIC WATER SERVICE. ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT CONDITIONS. INSTALL BFP SO IT CAN BE EASILY SERVICED AND TESTED. SUPPORT ASSEMBLY FROM WALL BRACKET OR FLOOR STAND.

2 Domestic Water Service Entry
Scale: Not to Scale



4 Typical Unit Mechanical Closet Detail
Scale: Not to Scale

NOTE: PLUMBING CONTRACTOR SHALL INSTALL 6" SPACER, PROVIDED BY WATER SUB-METERING COMPANY, AT AN ACCESSIBLE LOCATION DOWNSTREAM OF MAIN DOMESTIC WATER SHUT-OFF IN EACH DWELLING UNIT. SUB-METER AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED BY OTHERS.



DOMESTIC WATER RISER DIAGRAM DWR-01

DOMESTIC WATER RISER DIAGRAM DWR-02

5 DOMESTIC WATER RISER DIAGRAMS
SCALE: NONE

NOTE: PLUMBING CONTRACTOR SHALL INSTALL 6" SPACER, PROVIDED BY WATER SUB-METERING COMPANY, AT AN ACCESSIBLE LOCATION DOWNSTREAM OF MAIN DOMESTIC WATER SHUT-OFF IN EACH DWELLING UNIT. SUB-METER AND ASSOCIATED EQUIPMENT SHALL BE INSTALLED BY OTHERS.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL	TRIM	CONNECTIONS CW	HW	W	V	NOTES
WC-1	FLOOR MOUNTED FLUSH TANK WATER CLOSET RIGHT HEIGHT	AMERICAN STANDARD	2886.218	ELONGATED BOWL CHURCH 9500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT 1.92/1.28 GPF	1/2"	--	4"	2"	
		CRANE							
		TOTO							
WC-2	ADA FLOOR MOUNTED FLUSH TANK WATER CLOSET RIGHT HEIGHT	AMERICAN STANDARD	2886.204	ELONGATED BOWL CHURCH 9500C OPEN FRONT SEAT TOTO SC534 OPEN FRONT SEAT 1.0/1.6 GPF	1/2"	--	4"	2"	8
		CRANE							
		TOTO							
L-1	UNDERMOUNT LAVATORY		KATHRYN	BISCUIT COLOR FAUCET: F-2	--	--	1-1/4"	1-1/2"	1, 2
		KOHLER	K-2330-96						
L-2	WALL HUNG LAVATORY			FAUCET: F-3 20X18 BASIN, CONCEALED ARM CARRIER	--	--	1-1/2"	1-1/2"	2
		KOHLER	K-5373						
S-1	DOUBLE BOWL 16 GAUGE UNDERMOUNT SINK			STAINLESS STEEL FAUCET: F-1 GRID AND STRAINER DRAIN	--	--	2"	1-1/2"	
		VIGO	VG2920BLK1						
S-2	ADA DOUBLE BOWL 18 GAUGE SELF RIM SINK			STAINLESS STEEL FAUCET: F-1 GRID AND STRAINER DRAIN	--	--	2"	1-1/2"	2, 8
		DAYTON	D22519						
TS-1	TUB/SHOWER SHOWER BASE ACRYLIC			WHITE ACRYLIC FINISH SHOWER VALVE: SV-2 RIGHT/LEFT DRAIN PER PLAN	--	--	1-1/2"	2"	
		AQUATIC BATH	260330M						
TS-2	ADA TUB / SHOWER UNIT ACRYLIC			WHITE ACRYLIC PANEL GRAB BARS, 24" SLIDE SHOWER VALVE: SV-1	--	--	1-1/2"	2"	
		AQUATIC BATH	260330M						
F-1	ADA SINGLE HANDLE HIGH ARC PULL DOWN KITCHEN FAUCET			1.0 GPM AERATOR, SINGLE HOLE PULLDOWN SPRAY, CHROME FINISH CUP STRAINER DRAIN	1/2"	1/2"	--	--	2, 8
		KRAUS	KPF-2620						
F-2	ADA SINGLE HANDLE LAVATORY FAUCET			1.0 GPM AERATOR SINGLE HOLE POLISHED CHROME	1/2"	1/2"	--	--	2, 8
		DELTA	554-LF-PP						
F-3	PUBLIC LAVATORY ADA FAUCET WALL MOUNT			1.0 GPM AERATOR WALL MOUNT	1/2"	1/2"	--	--	8
		DELTA	T3568LF-WL						
SV-1	ADA SINGLE LEVER PRESSURE BALANCE TUB/SHOWER FAUCET	DELTA	T13H153	1.75 GPM CHROME FINISH TUB & SHOWER VALVE	1/2"	1/2"	--	--	7, 8
SV-2	SINGLE LEVER PRESSURE BALANCE SHOWER FAUCET			1.75 GPM CHROME FINISH TUB & SHOWER VALVE	1/2"	1/2"	--	--	7
		DELTA	T13H153						
HB-1	NON-FREEZE WALL HYDRANT			VACUUM BREAKER LOOSE CONTROL KEY WALL CLAMP-WITH HYDRANT BOX	1/2"	--	--	--	6
		PRIER	C-634BX1						
FD-1	7" ROUND FLOOR DRAIN	WADE	1100STD	NICKEL BRONZE STRAINER DEEP SEAL TRAP	--	--	--	--	4, 9
		ZURN	Z-415						
		SMITH	2005						
FD-2	5" ROUND SHOWER DRAIN	WADE	1100STD	NICKEL BRONZE STRAINER DEEP SEAL TRAP	--	--	--	--	
		ZURN	Z-415						
		SMITH	2005						
ET-1	EXPANSION TANK	AMTROL	THERM-X-TROL ST-30	DOMESTIC WATER SERVICE	--	3/4"	--	--	
		TACO	PAX						
GD-1	GARBAGE DISPOSAL	INSINKERATOR	BADGER 5	1/3HP, 120V	--	--	--	--	
WMB	WASHING MACHINE CONNECTION BOX			PLASTIC WASHING MACHINE BOX	1/2"	1/2"	2"	1-1/2"	3, 5
		GUY GRAY	W2700						
IMB	ICE MAKER CONNECTION BOX			PLASTIC ICEMAKER BOX	1/2"	--	--	--	3
		GUY GRAY	AB4700						
RH-1	FREEZELESS ROOF HYDRANT NO DRAIN				1"	--	1/8"	--	
		FREEZE FLOW	2131R						

NOTES:
1. PROVIDE TAILPIECE DRAIN CONNECTION ON LAVATORIES OR SINKS WHERE NEEDED FOR HVAC CONDENSATE DRAINS.
2. FAUCET HOLES TO MATCH FAUCET SPECIFIED.
3. WHERE BOX IS TO BE INSTALLED IN FIRE RATED WALL, CONTRACTOR SHALL SUPPLY FIRE RATED BOXES.
4. PIPE SIZE AS SHOWN ON DRAWING.
5. PROVIDE WASHING MACHINE DRAIN PAN UNDERNEATH WASHING MACHINE AT ALL WASHING MACHINE BOX LOCATIONS.
6. PROVIDE OPERATING ROD ASSEMBLY PER MANUFACTURER'S RECOMMENDATIONS BASED ON WALL THICKNESS.
7. PIPE FOR SHOWER HEAD SHALL BE LOCATED AT 6'-8" A.F.F., ABOVE SURROUND
8. FIXTURE ASSEMBLY MUST BE APPROVED BY AND INSTALLED PER ADA.
9. PROVIDE SURESEAL 55X000V INLINE FLOOR DRAIN TRAP SEAL WITH ASSE 1072 RATING.

GENERAL NOTES:
A. PROVIDE INSULATION KIT ON ALL ADA FIXTURES WITH EXPOSED TRAP AND SUPPLIES.
B. PROVIDE TAILPIECE DRAIN CONNECTION ON LAVATORIES OR SINKS WHERE NEEDED FOR HVAC CONDENSATE DRAINS.

WATER HEATER SCHEDULE

MARK	MANUFACTURER	MODEL	CAPACITY (GAL)	INPUT (kW)	OUTPUT (kW)	RECOVERY (GPH)	V/PH	NOTES
WH-1	BRADFORD WHITE	RE240L6	38	4.5	-	21.0	208/1	RESIDENCE
WH-2	BRADFORD WHITE	RE230L6	28	4.5	-	20.0	208/1	OFFICE

GENERAL NOTES (APPLIES TO ALL ABOVE):
A. PROVIDE ASME PRESSURE AND TEMPERATURE RELIEF VALVE.
B. PROVIDE DIELECTRIC CONNECTIONS AT WATER HEATER.
C. ALL WATER HEATERS 200 MBH OR LARGER SHALL HAVE ASME RATING.
D. RESTROOM RECOVERY BASED ON 40 DEGREE TEMPERATURE RISE.

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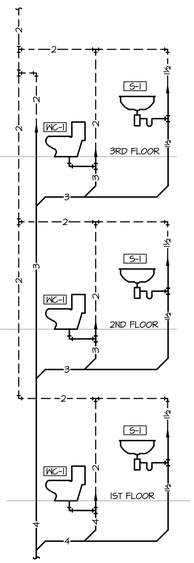
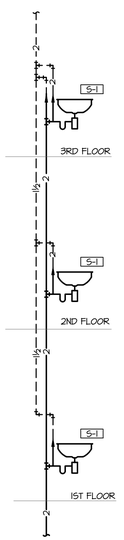
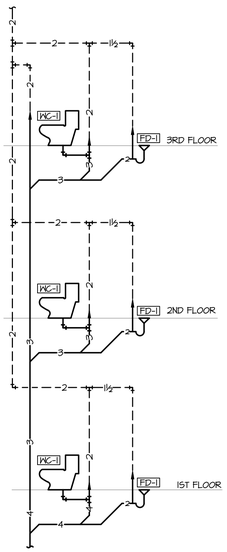


DWV Riser #10



DWV Riser #11



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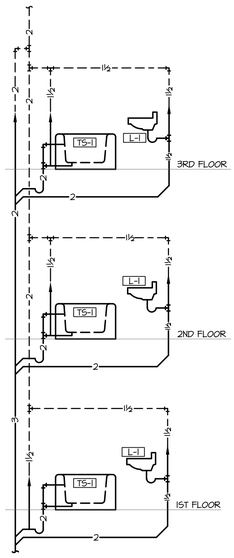

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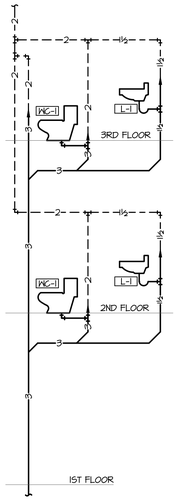

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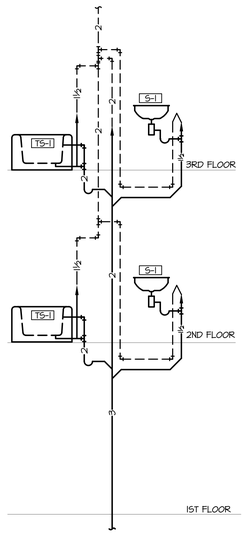
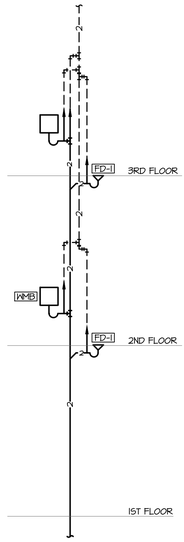
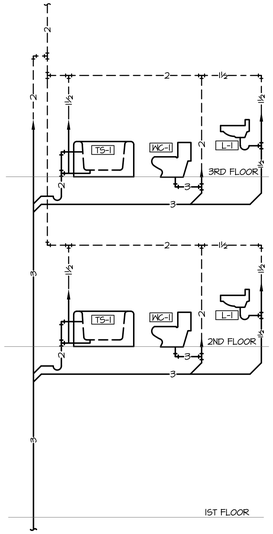


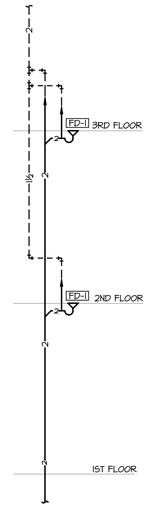
DWV Riser #15



DWV Riser #16



DWV Riser #17



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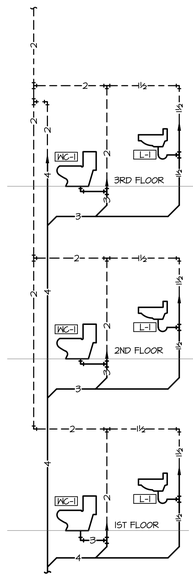

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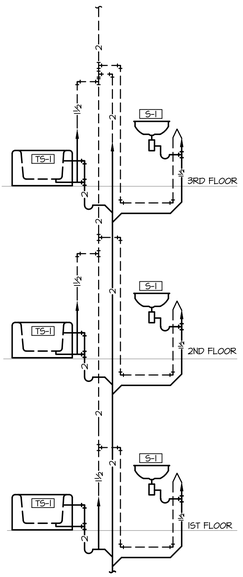

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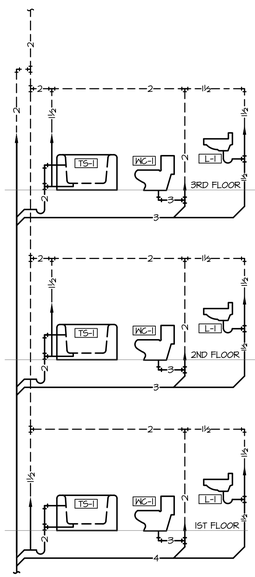

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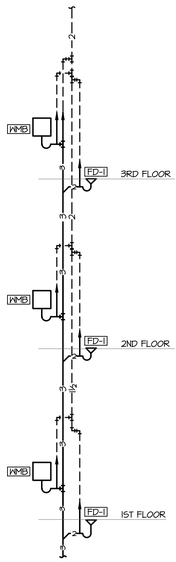

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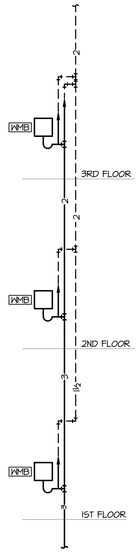

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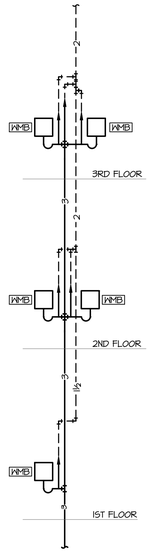

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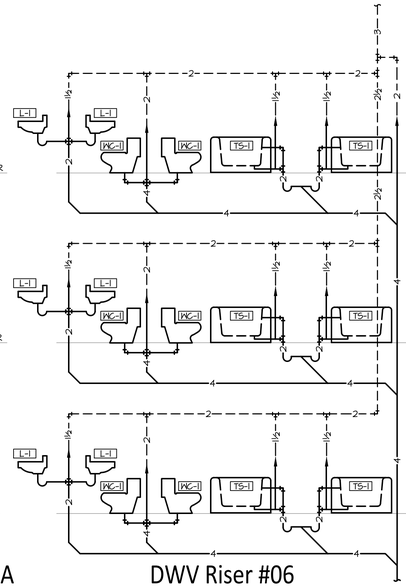

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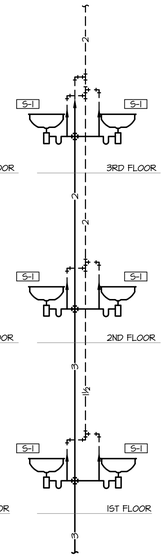

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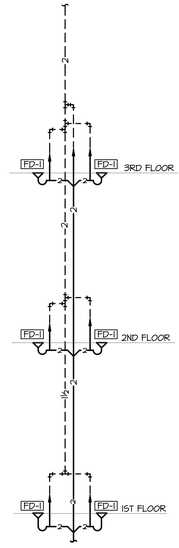

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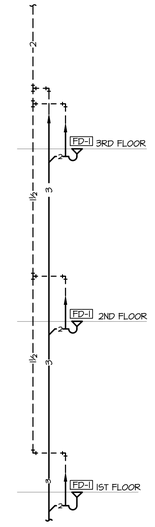


DWV Riser #09

SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS

1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER
02/04/19

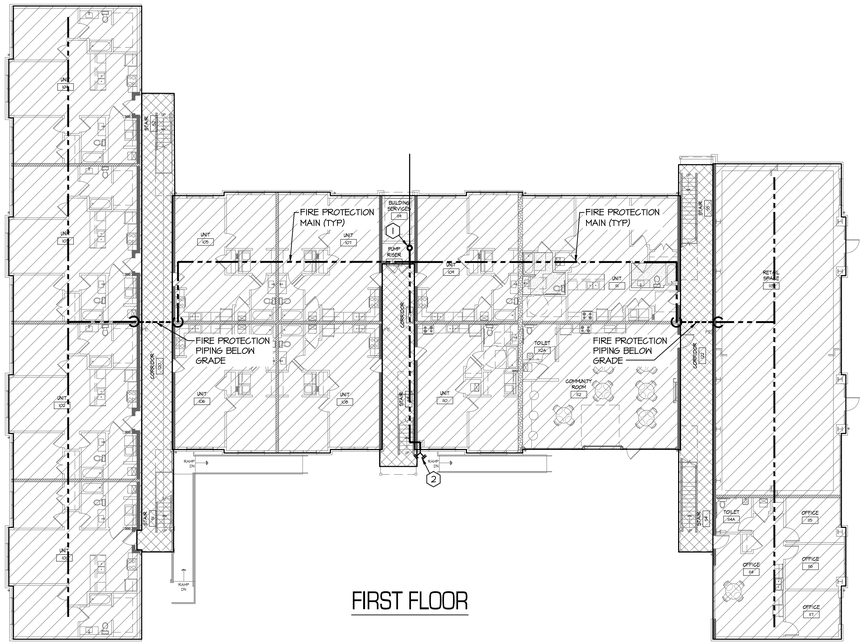
PLUMBING RISER DIAGRAMS

ISSUE DATE:
02.04.2019
REVISIONS:

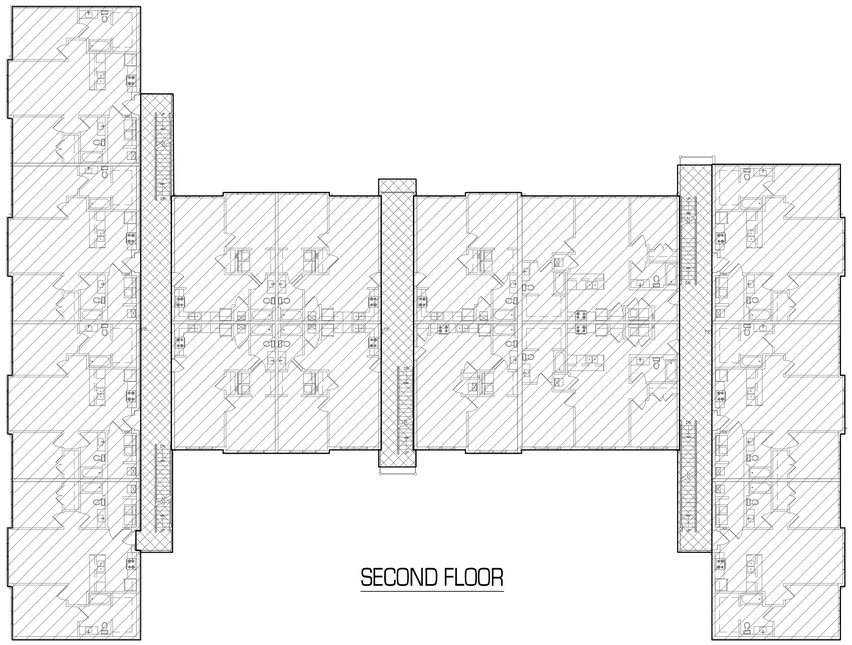
HOSS & BROWN ENGINEERS
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@h-b-e.com
H&B Project Number: 1820640

PROJECT NO.: 1803

P6.1



FIRST FLOOR



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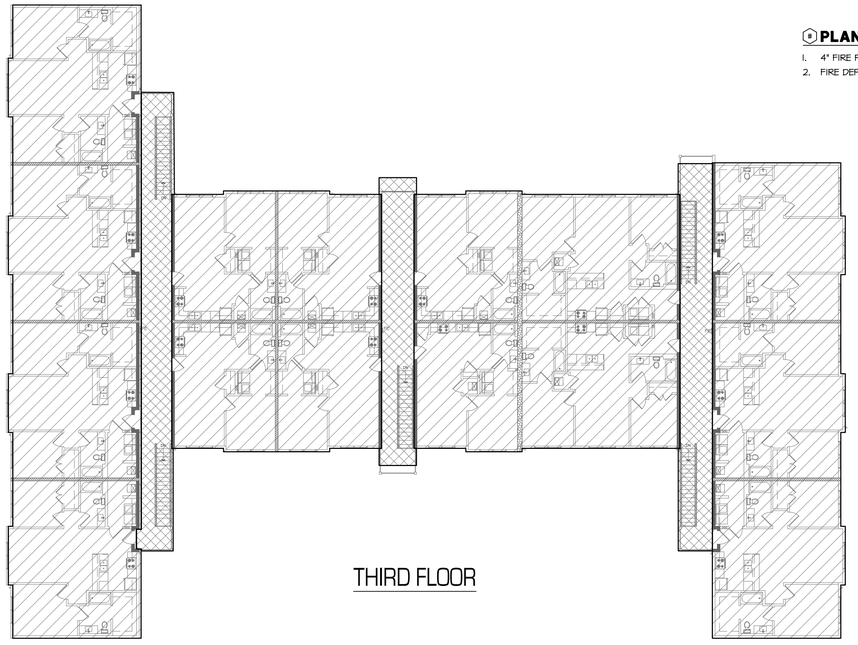
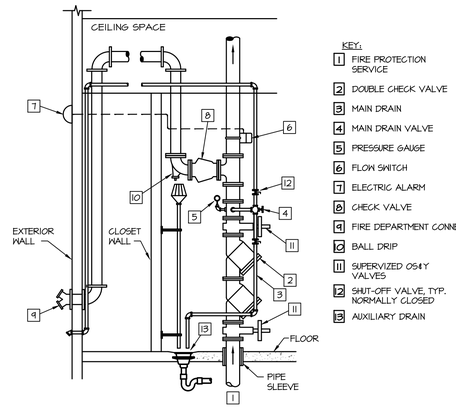


THIRD FLOOR

01 FIRE PROTECTION PLANS
SCALE: 1/16" = 1'-0"

NORTH



KEY:
1. FIRE PROTECTION SERVICE
2. DOUBLE CHECK VALVE
3. MAIN DRAIN
4. MAIN DRAIN VALVE
5. PRESSURE GAUGE
6. FLOW SWITCH
7. ELECTRIC ALARM
8. CHECK VALVE
9. FIRE DEPARTMENT CONNECTION
10. BALL DRIP
11. SUPERVIZED OS&Y VALVES
12. SHUT-OFF VALVE, TYP. NORMALLY CLOSED
13. AUXILIARY DRAIN

ARRANGEMENT SHOWN IS SCHEMATIC. MODIFY TO SUIT MANUFACTURER'S STANDARDS, MEET LOCAL CODE REQUIREMENTS. ROUTE ALL DRAINS TO OUTSIDE AS SHOWN OR TO NEARBY FLOOR DRAIN.

02 REMOTE LOCATION
FIRE DEPARTMENT WATER ENTRY
SCALE: NOT TO SCALE

FIRE PROTECTION GENERAL NOTES:

A. TOTALLY NEW CONSTRUCTION. PROVIDE A COMPLETE AUTOMATIC SPRINKLER SYSTEM TO SERVE THE ENTIRE BUILDING.
B. PROVIDE FIRE PROTECTION SYSTEM COMPLETE, PER APPLICABLE CODES, PER NFPA, AND PER REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
C. INCLUDE ALL PIPING, OFFSETS, FITTINGS, DRAINS, VALVES, SUPPORTS, HEADS, ETC. AS REQUIRED FOR A COMPLETE OPERABLE SYSTEM.
D. SPRINKLER HEADS SHALL BE WHITE SEMI-RECESSED FOR AREAS WITH FINISHED CEILINGS. SPRINKLER HEADS SHALL BE ROUGH BRASS FOR AREAS WITH EXPOSED STRUCTURE. SPRINKLER HEADS IN CEILINGS, UNLESS FUNCTIONALLY IMPOSSIBLE, SHALL BE CENTERED WITH AND BETWEEN ROWS OF LIGHT FIXTURES. SPRINKLER HEADS IN MACHINE ROOMS SHALL BE 212F TEMPERATURE ACTIVATED.
E. PIPING IN AREAS HAVING FINISHED CEILINGS SHALL BE 1 CONCEALED. SPRINKLER PIPING 2-" AND LARGER MAY BE 2 SCHEDULE 10 BLACK STEEL. SPRINKLER PIPING 2" AND SMALLER SHALL BE SCHEDULE 40 BLACK STEEL. MINIMUM PIPE SIZE SHALL BE 1".
F. PROVIDE AND INSTALL BACKFLOW PREVENTION EQUIPMENT AS REQUIRED BY LOCAL CODES. PROVIDE AND INSTALL FULL FLOW FIRE METER OR DETECTOR CHECK METER IF REQUIRED.
G. THE SYSTEMS SHALL BE DESIGNED BY A LICENSED FIRE
H. PROTECTION ENGINEER AND INSTALLED BY A LICENSED SPRINKLER CONTRACTOR.
I. COORDINATE ALL SCHEDULING AND WORK WITH OTHER TRADES SO AS TO PREVENT CONFLICTS, AND TO ENSURE ORDERLY PROGRESS OF THE WORK, WITH A MINIMUM OF DELAYS. WHERE SPRINKLER PIPING IS INSTALLED WITHOUT COORDINATING WITH OTHER TRADES AND CONFLICTS OCCUR, SPRINKLER PIPING SHALL BE RELOCATED AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO RESOLVE THE CONFLICTS.
J. WHERE PIPING PASSES THROUGH WALLS, FLOORS, CEILINGS, OR OTHER BUILDING CONSTRUCTION, SLEEVES MUST BE USED. WHERE EXPOSED PIPING PASSES THROUGH FINISH WORK, CHROME PLATED OR OTHER FINISH ACCEPTABLE TO THE ARCHITECT, SPLIT WALL PLATES OR ESCUTCHEONS SHALL BE INSTALLED TO FIT SNUGLY AROUND THE PIPING. WHERE FINISH IS NOT A PROBLEM SUITABLE PLATES SHALL BE PROVIDED AT EACH HOLE TO ASSURE EFFECTIVENESS OF CONSTRICTION AS A FIRE STOP.
K. SEAL ALL FIRE PROTECTION FLOOR, WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT. CAULK AROUND FIRE PROTECTION PENETRATIONS WITH 3M CP-25 FIRE BARRIER CAULK (THICKNESS AS REQUIRED AND RECOMMENDED BY MANUFACTURER) TO MAINTAIN FIRE RESISTANCE RATING OF FIRE-RATED ASSEMBLIES.

GENERAL NOTES:

1. PROVIDE NEW FIRE SPRINKLER SERVICE ENTRANCE IN ACCORDANCE WITH FIRE PROTECTION SERVICE ENTRY DETAIL. THE FIRE SPRINKLER CONTRACTOR (FSC) SHALL BE RESPONSIBLE FOR THE DESIGN, LAYOUT, MATERIALS AND COMPLETE INSTALLATION OF THE ENTIRE SPRINKLER SYSTEM. THE FSC SHALL PREPARE ALL NEEDED DRAWINGS TO MEET N.F.P.A. 13 REQUIREMENTS AND HAVE APPROVAL OF ALL LOCAL, STATE AND INSURANCE UNDERWRITING AUTHORITIES. THE SYSTEM SHALL BE TESTED UNDER PRESSURE BY THE FSC AND INSPECTED AND APPROVED BY THE LOCAL FIRE MARSHALL PRIOR TO ACCEPTANCE BY OWNER. THE FSC SHALL COORDINATE LOCATION OF THE ENTIRE SPRINKLER SYSTEM WITH ALL OTHER TRADES.
2. PROVIDE WET TYPE FIRE PROTECTION SYSTEM FOR SINGLE HATCHED AREAS AS SHOWN AT LEFT.
3. PROVIDE DRY TYPE FIRE PROTECTION SYSTEM FOR DOUBLE HATCHED AREAS AS SHOWN AT LEFT.
4. ROUTE PIPING CONCEALED ABOVE CEILING OR IN WALLS WHERE POSSIBLE. HEAD LAYOUT AND BRANCH PIPING SHALL BE SUBMITTED IN SHOP DRAWINGS.
5. ALL PIPING SHALL BE ROUTED AT 90 DEGREE ANGLES TO THE STRUCTURE IN A NEAT AND ORDERLY FASHION.
6. ALL WATER SERVICE INSTALLATIONS INCLUDING BACKFLOW DEVICES ARE SUBJECT TO FIELD VERIFICATION AND APPROVAL BY THE WATER DEPARTMENT INSPECTOR.

PLAN NOTES:

1. 4" FIRE PROTECTION LINE.
2. FIRE DEPARTMENT CONNECTION.

NOTE:
FIRE PROTECTION ENGINEER SHALL PERFORM WATER FLOW RATE AND PRESSURE TESTS AND VERIFY PRESSURE AVAILABLE AT SITE BEFORE COMPLETING FINAL DESIGN.

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

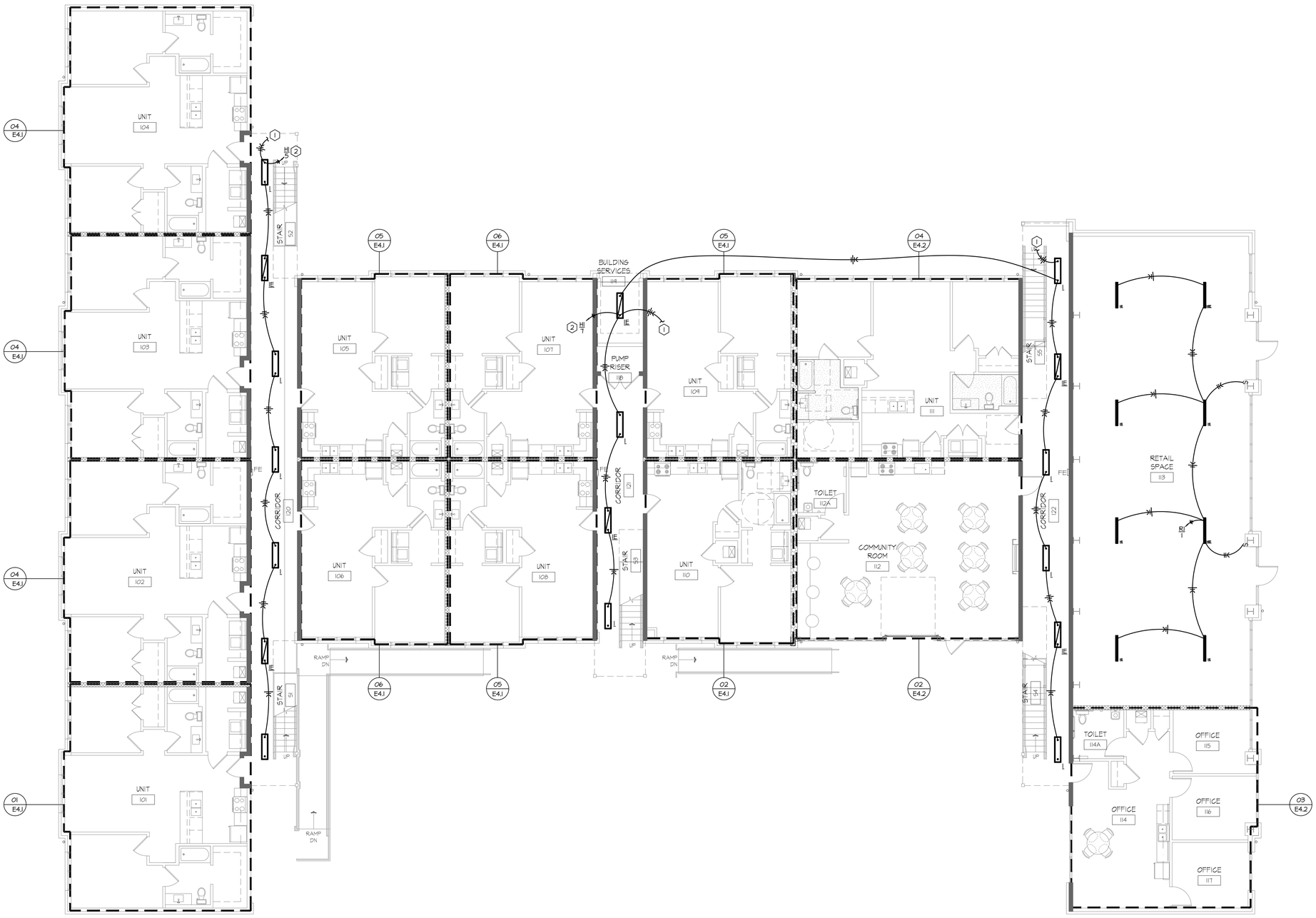
FIRE PROTECTION PLANS

ISSUE DATE:
02.04.2019
REVISIONS:

H&B HOSS & BROWN ENGINEERS
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@h-be.com
H&B Project Number: 1820640

PROJECT NO.: 1803

FP1.1



GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.

C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.

D. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

E. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

F. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

⑥ PLAN NOTES:

1. CIRCUIT CONTINUES TO FLOOR(S) ABOVE. SEE E1.2 FOR CONTINUATION.
2. HOMERUN WITH (2) #10 & #10 GROUND WIRE IN A 3/4" CONDUIT. ROUTE THROUGH TIME CLOCK AND PHOTOCELL. REFERENCE EXTERIOR LIGHTING CONTROL SCHEMATIC DETAIL 1 ON SHEET M2E1.1.

NORTH

01 FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

SWD ARCHITECTS
EST 1935

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Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER
02/04/19

FIRST FLOOR
LIGHTING PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-8090 phone
mail@h-b-e.com
H&B Project Number: 1820640

PROJECT NO.: 1803

E1.1

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.

C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.

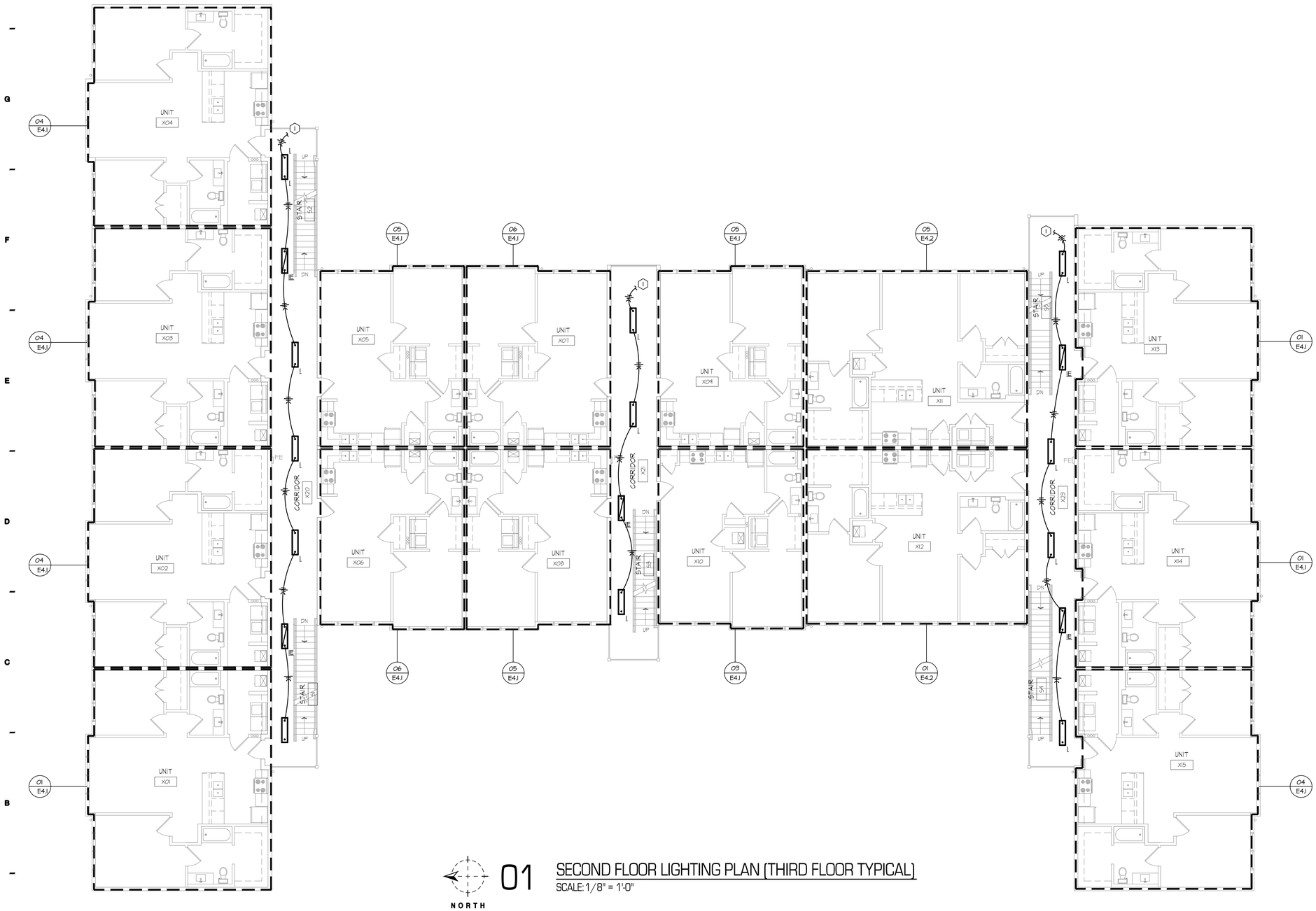
D. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

E. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

F. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

① PLAN NOTES:

1. CIRCUIT CONTINUES TO FLOOR(S) BELOW. SEE E1.1 FOR CONTINUATION.



01 SECOND FLOOR LIGHTING PLAN (THIRD FLOOR TYPICAL)
SCALE: 1/8" = 1'-0"

NORTH

SWD ARCHITECTS
EST 1935

ARCHITECTURAL CORPORATION
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STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER

SECOND FLOOR LIGHTING PLAN (THIRD FLOOR TYPICAL) 4/19

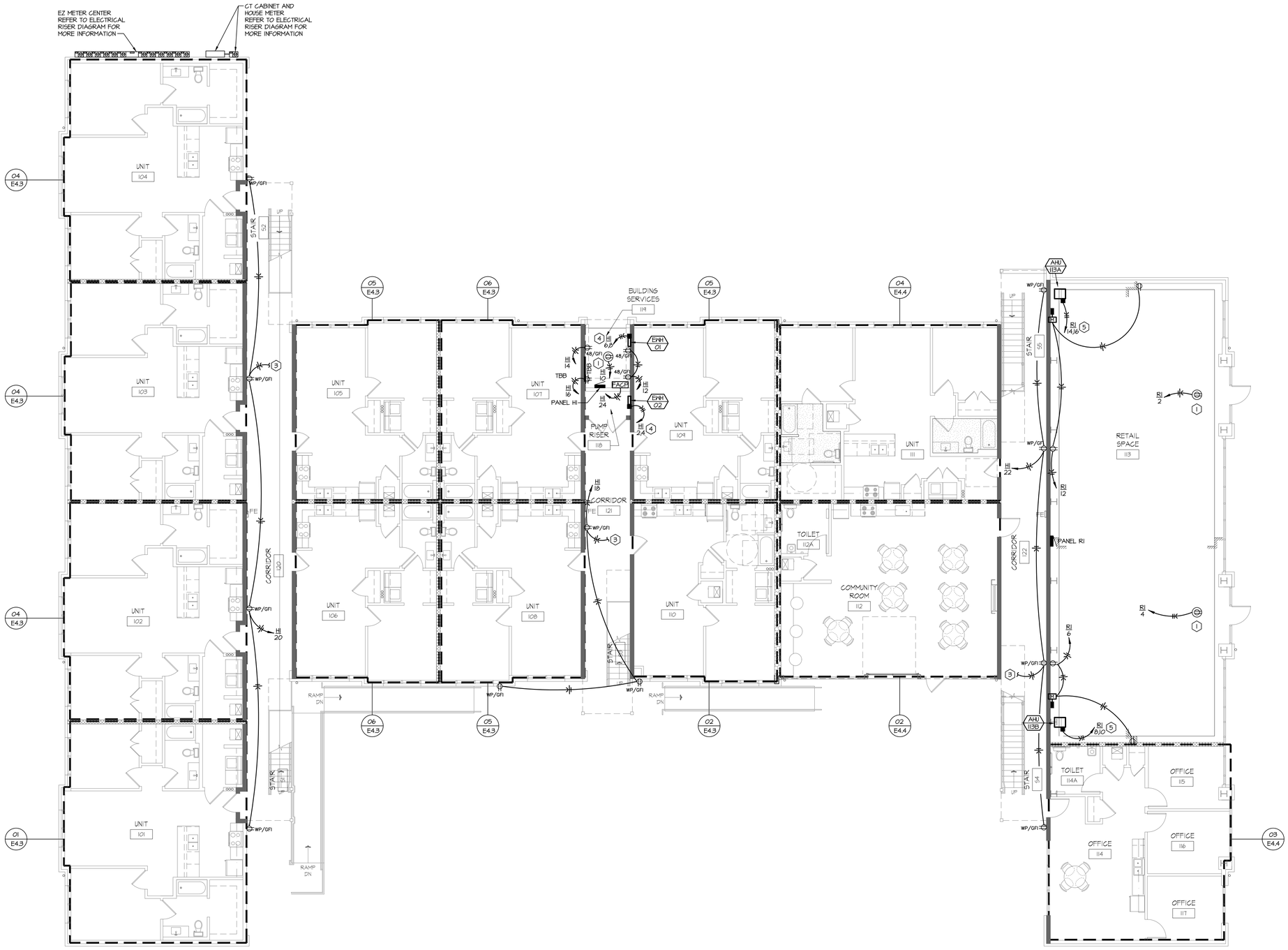
ISSUE DATE:
02.04.2019

REVISIONS:

H&B HOSS & BROWN ENGINEERS
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@hb-be.com
H&B Project Number: 1820640

PROJECT NO.: 1803

E1.2



01 FIRST FLOOR POWER PLAN

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

NORTH

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.

C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.

D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.

E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.

F. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.

G. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

H. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.

I. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL

J. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

⑧ PLAN NOTES:

1. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE FOR GARAGE DOOR OPENER.
2. NOT USED.
3. UP TO SECOND FLOOR.
4. PROVIDE 2#10 & 1#10 GRD. IN 1/2" C.
5. PROVIDE 2#2 & 1#8 GRD. IN 1-1/4"C.

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Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

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ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER
02/04/19

FIRST FLOOR
POWER PLAN

ISSUE DATE:
02.04.2019
REVISIONS:

H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-8090 phone
mail@h-b-e.com
H&B Project Number: 1820640

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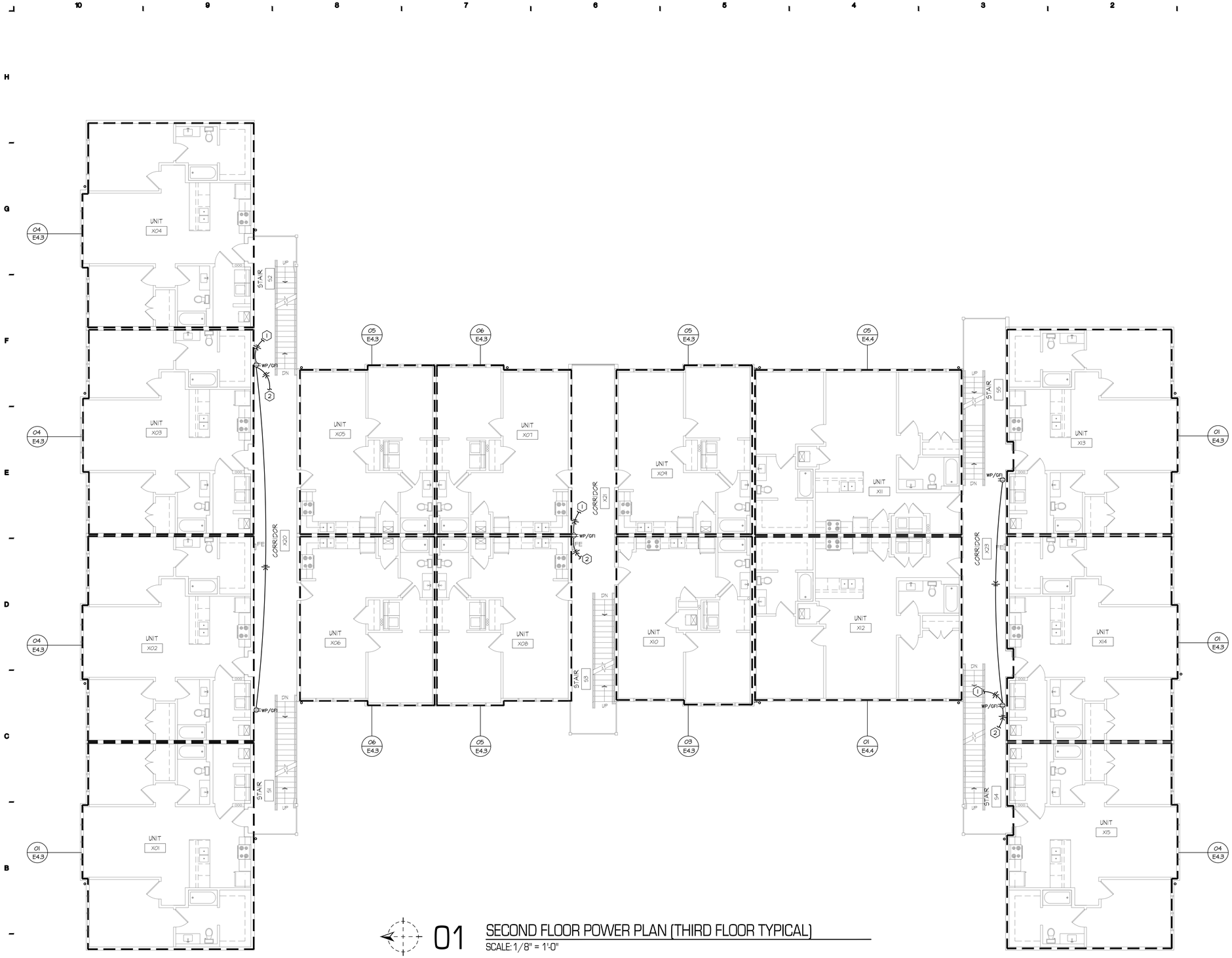
E2.1



01 SECOND FLOOR POWER PLAN (THIRD FLOOR TYPICAL)

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

NORTH

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

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C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.

D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.

E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.

F. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.

G. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

H. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.

I. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL

J. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

⬡ PLAN NOTES:

1. DOWN TO FIRST FLOOR.
2. UP TO THIRD FLOOR.

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1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI
CASEY JOHN STEINER
NUMBER PE-2009035182
PROFESSIONAL ENGINEER

SECOND FLOOR 4/19
POWER PLAN
(THIRD FLOOR
TYPICAL)

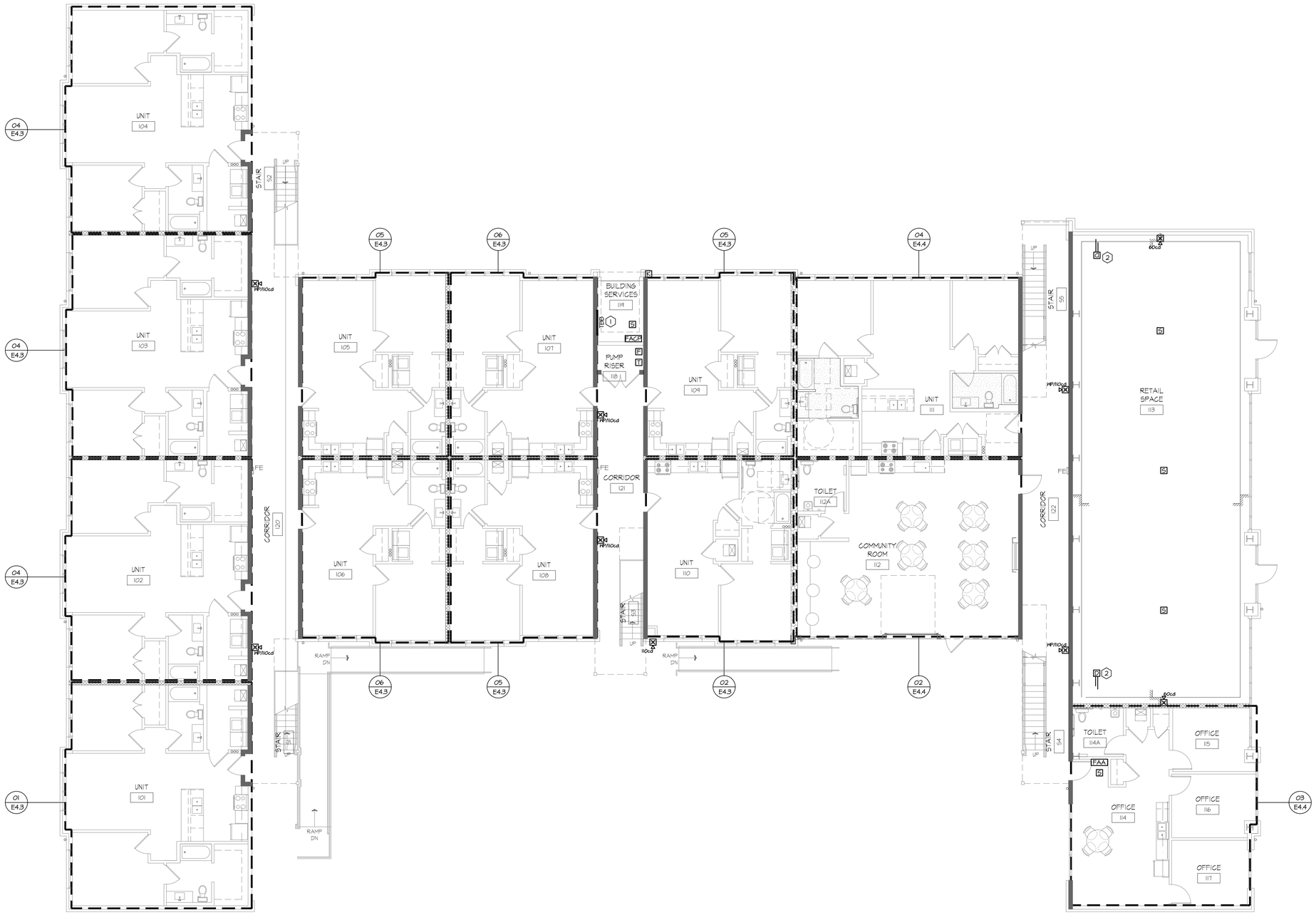
ISSUE DATE:
02.04.2019

REVISIONS:

H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362.9090 phone
mail@hb-be.com
H&B Project Number: 1820640

PROJECT NO.: 1803

E2.2



GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.

C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.

D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.

E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.

F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.

G. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.

H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

I. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.

J. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.

K. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

(B) PLAN NOTES:

1. PROVIDE 48"X48"X¾" FIRE RATED PLYWOOD TELECOMMUNICATIONS BACKBOARD. PROVIDE GROUNDING BUS AND CONNECT TO SYSTEM GROUND. PROVIDE (2) 4" CONDUIT FOR TELECOMMUNICATIONS SERVICE. EXTEND CONDUIT 4"X4" TO PROPERTY LINE. COORDINATE EXACT SERVICE LOCATION WITH SERVICE PROVIDER. PROVIDE 4" CONDUIT SLEEVES THROUGH FLOOR FOR TELECOMMUNICATIONS CABLING. COORDINATE NUMBER OF SLEEVES REQUIRED WITH SERVICE PROVIDER.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR ALL HVAC UNITS GREATER THAN 2000 CFM SUPPLY. DUCT DETECTORS WITH SHUT DOWN RELAY SHALL BE EQUAL TO SIMPLEX MODEL #4048-9756 WITH SAMPLING TUBE IN LENGTH PROPER FOR DUCT SIZE. #2098-9806 REMOTE KEYED TEST STATION WITH LED ALARM MONITORING. INTERLOCK WITH UNIT TO SHUT DOWN UPON ALARM.

01 FIRST FLOOR SPECIAL SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

NORTH

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Y GARDENS APARTMENTS
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PLAN

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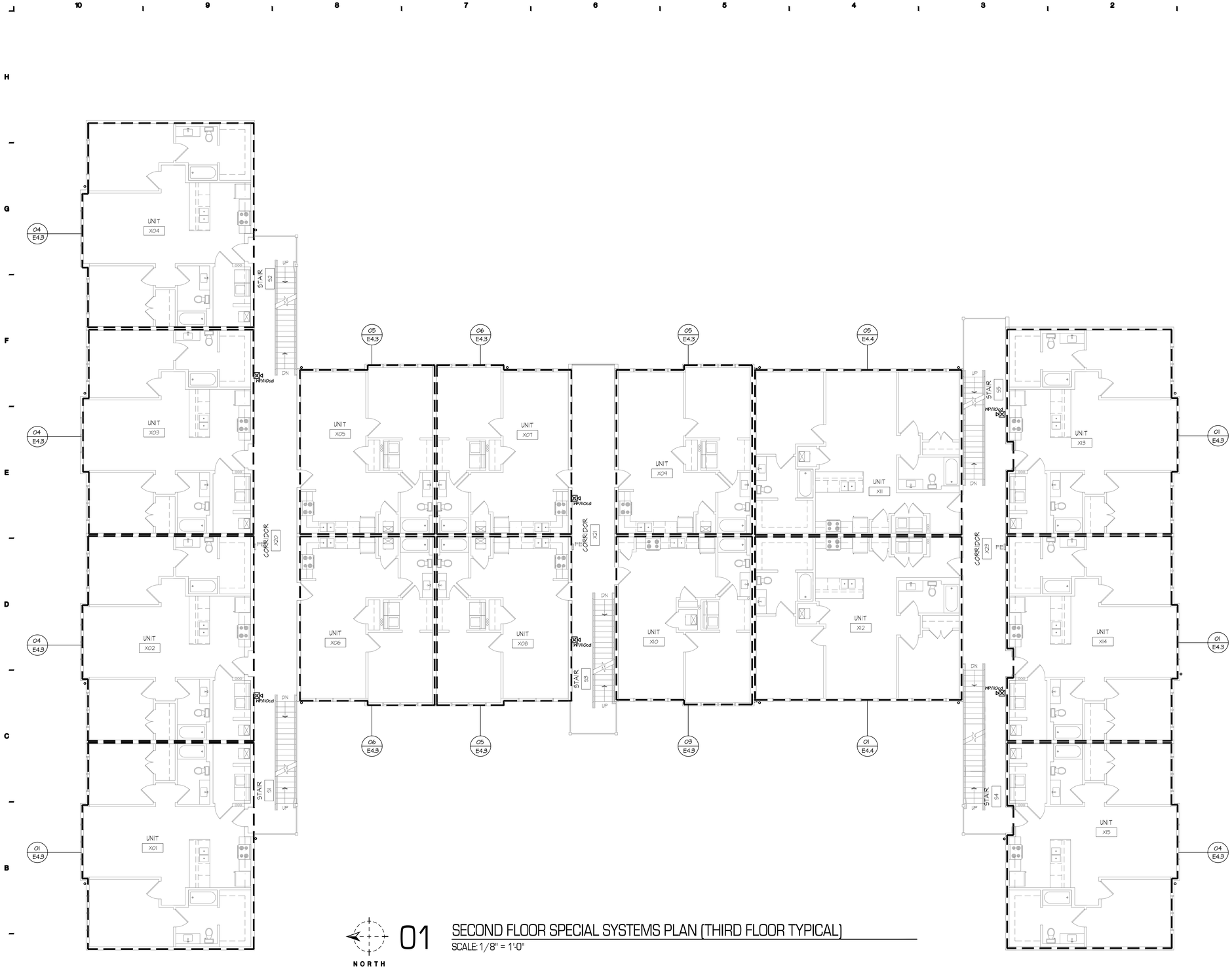

01 SECOND FLOOR SPECIAL SYSTEMS PLAN (THIRD FLOOR TYPICAL)

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

NORTH

GENERAL NOTES:

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B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.

C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.

D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.

E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.

F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.

G. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.

H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

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J. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL PANELS.

K. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

PLAN NOTES:

1. .

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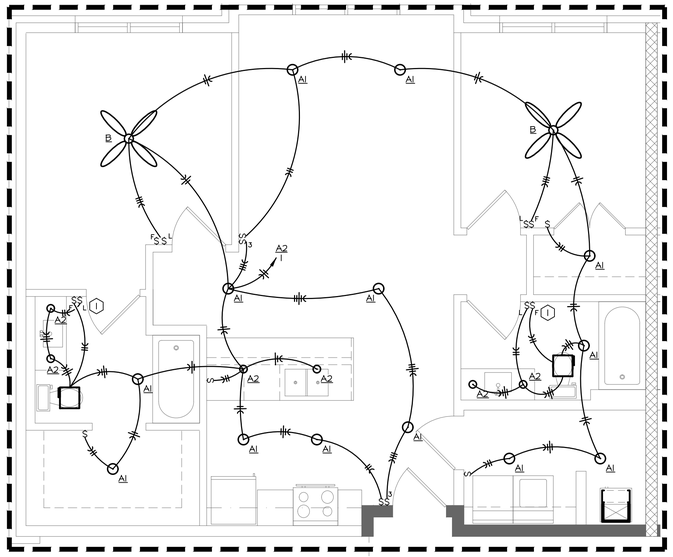
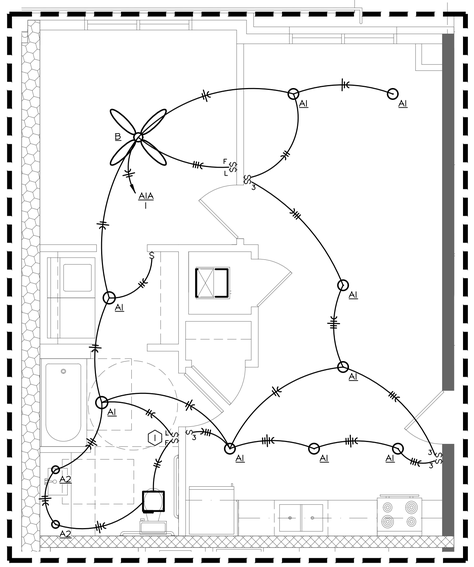
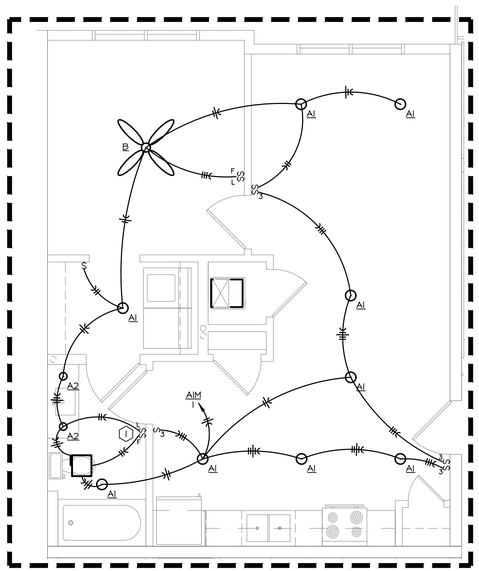


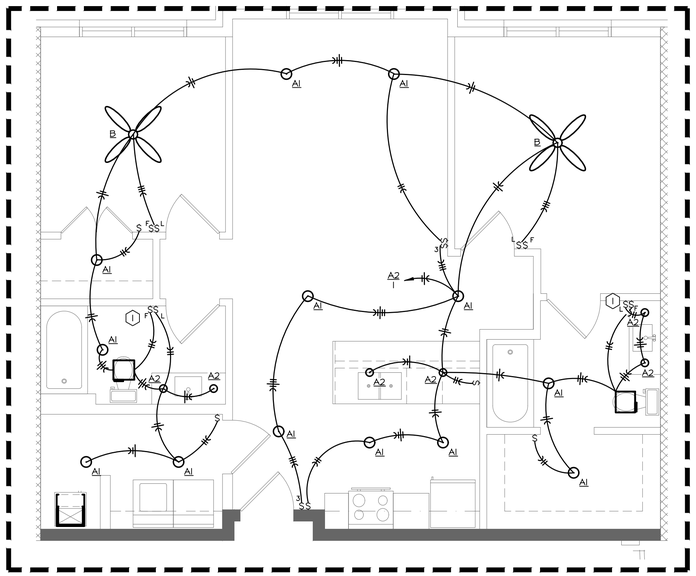
01 ENLARGED LIGHTING PLAN (2 BED REV.)
SCALE: 1/4" = 1'-0"



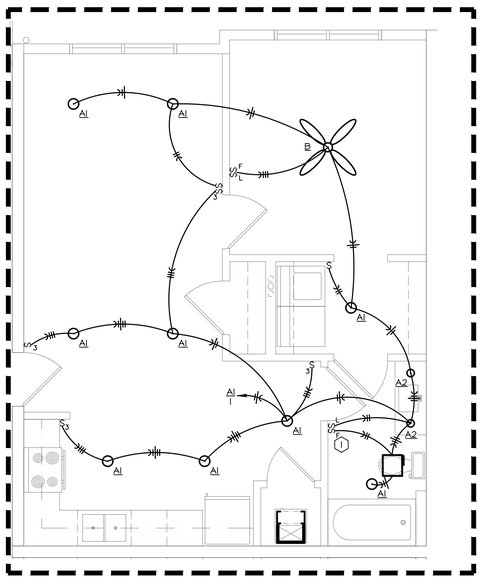
02 ENLARGED LIGHTING PLAN (1 BED - TYPE A)
SCALE: 1/4" = 1'-0"



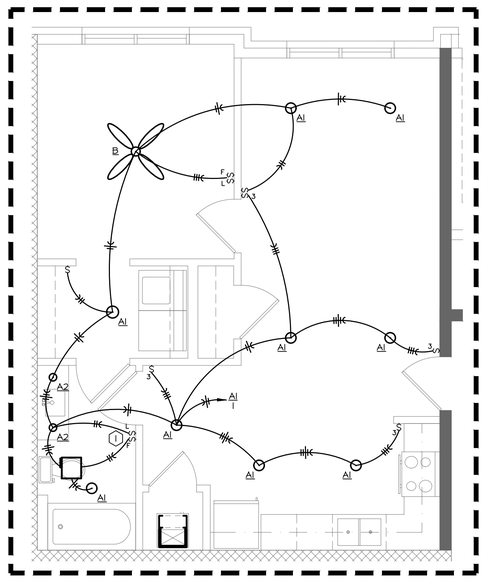
03 ENLARGED LIGHTING PLAN (1 BED MOD.)
SCALE: 1/4" = 1'-0"



04 ENLARGED LIGHTING PLAN (2 BED)
SCALE: 1/4" = 1'-0"



05 ENLARGED LIGHTING PLAN (1 BED REV.)
SCALE: 1/4" = 1'-0"



06 ENLARGED LIGHTING PLAN (1 BED)
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.

C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.

D. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

E. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

F. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

⬡ PLAN NOTES:

1. PROVIDE SWITCH FOR OVERHEAD LIGHT AND A SEPARATE SWITCH FOR EXHAUST FAN.

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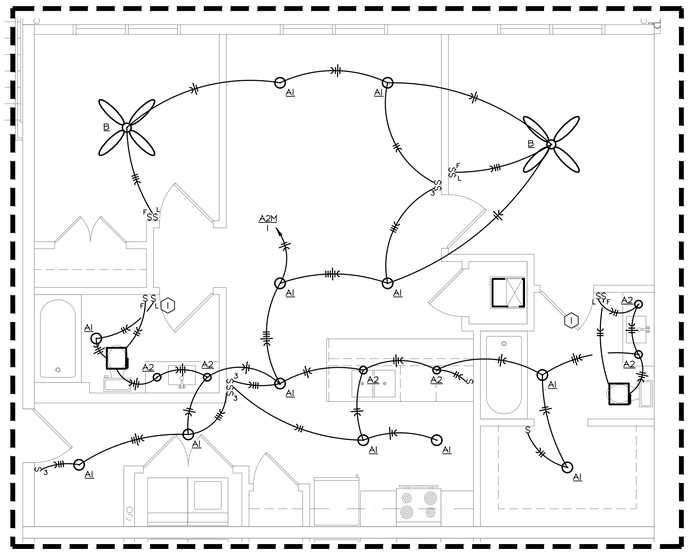
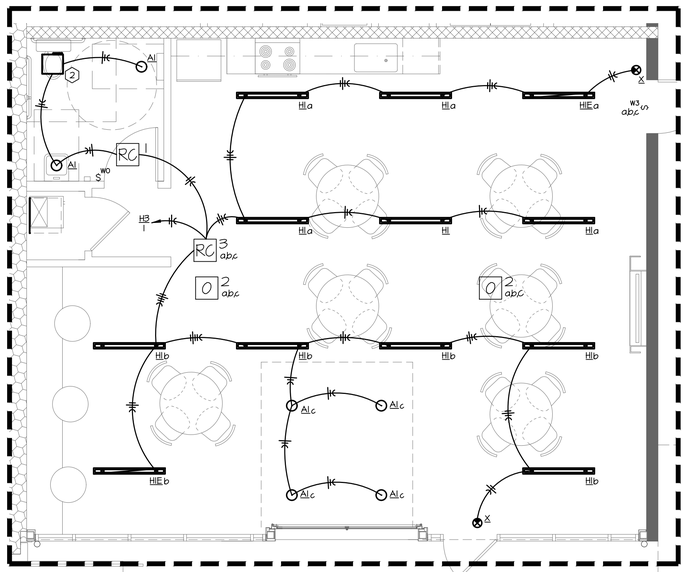
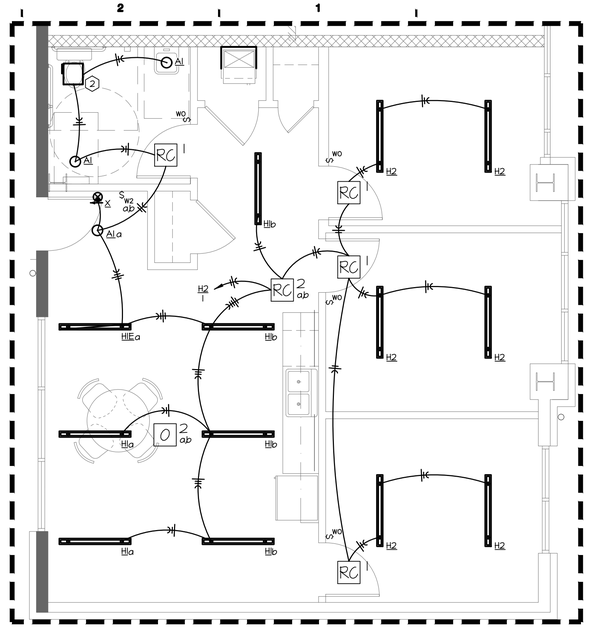


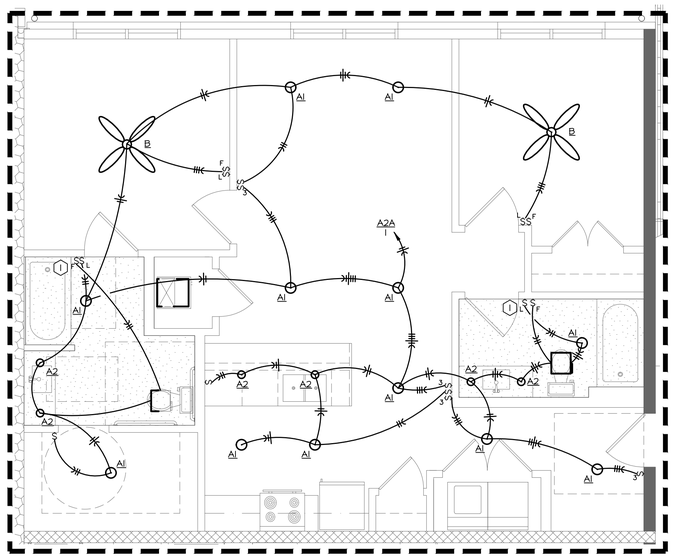
01 ENLARGED LIGHTING PLAN (2 BED MOD REV.)
SCALE: 1/4" = 1'-0"



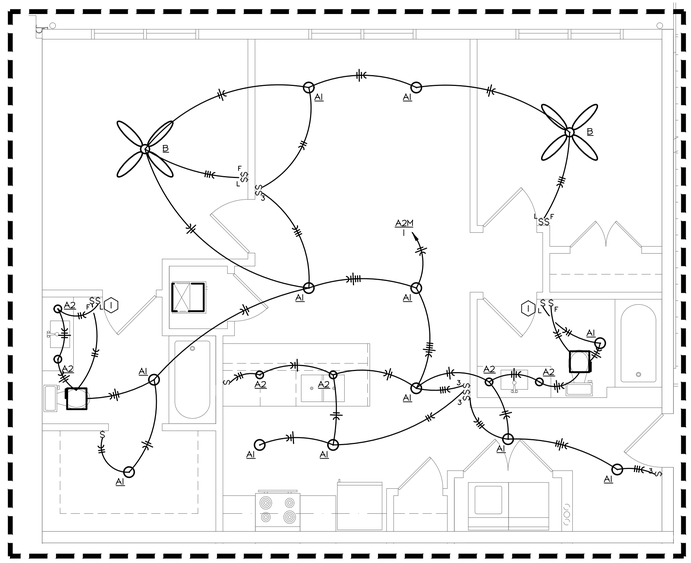
02 ENLARGED COMMUNITY ROOM LIGHTING PLAN
SCALE: 1/4" = 1'-0"



03 ENLARGED OFFICE SUITE LIGHTING PLAN
SCALE: 1/4" = 1'-0"



04 ENLARGED ACCESSIBLE 2 BED LIGHTING PLAN
SCALE: 1/4" = 1'-0"



05 ENLARGED LIGHTING UNIT PLAN (2 BED MOD.)
SCALE: 1/4" = 1'-0"

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B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.

C. COORDINATE THE EXACT LIGHT FIXTURE LOCATIONS WITH THE ARCHITECTURAL DRAWINGS.

D. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

E. PROVIDE SEPARATE NEUTRALS FOR DIMMING CIRCUITS.

F. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

(6) PLAN NOTES:

1. PROVIDE SWITCH FOR OVERHEAD LIGHT AND A SEPARATE SWITCH FOR EXHAUST FAN.
2. EXHAUST FAN SHALL ENERGIZE WHEN LIGHTS ARE ACTIVATED.

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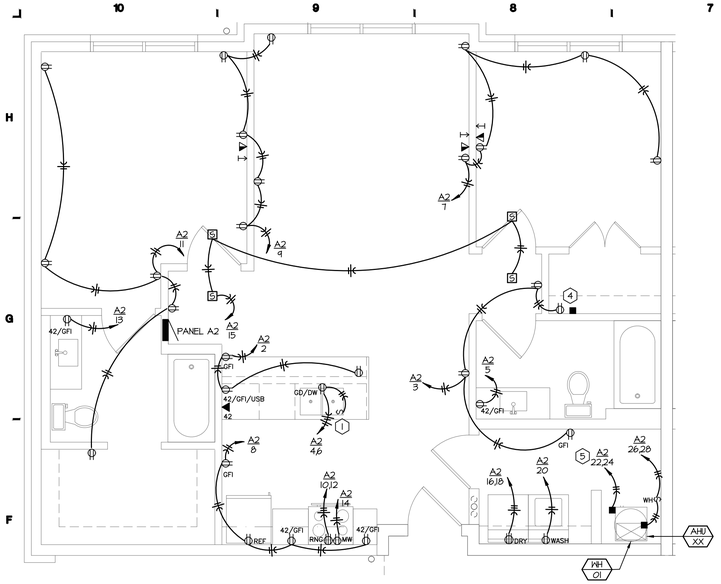
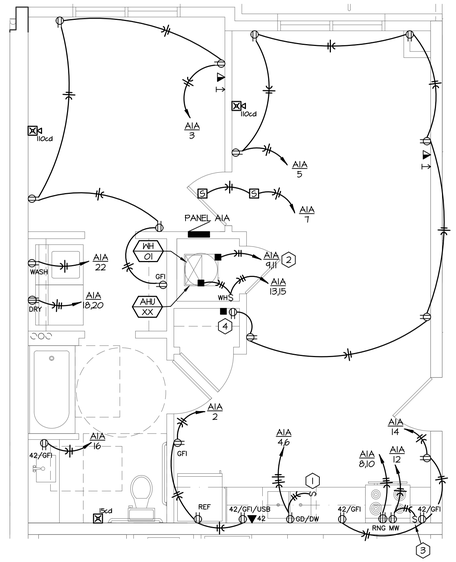
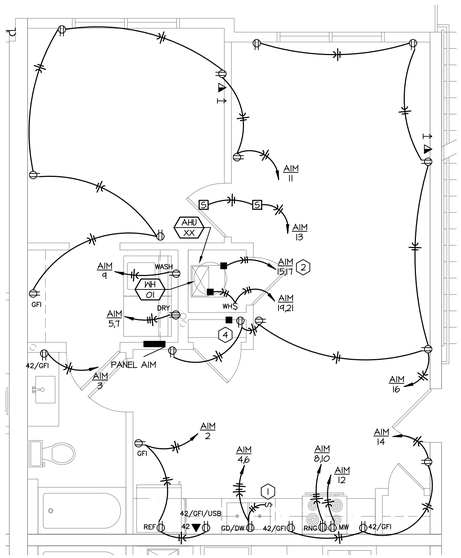


01 ENLARGED POWER AND SPECIAL SYSTEMS PLAN (2 BED REV.)
SCALE: 1/4" = 1'-0"



02 ENLARGED POWER AND SPECIAL SYSTEMS PLAN (1 BED - TYPE A)
SCALE: 1/4" = 1'-0"



03 ENLARGED POWER AND SPECIAL SYSTEMS PLAN (1 BED MOD.)
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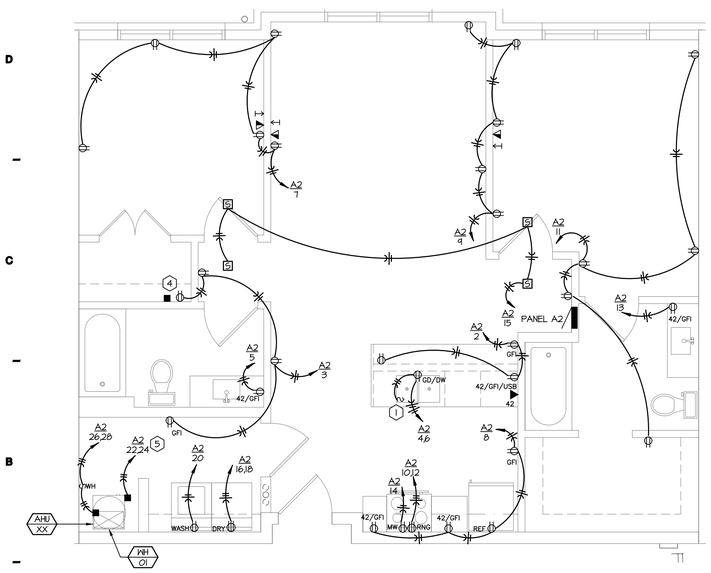

04 ENLARGED POWER AND SPECIAL SYSTEMS PLAN (2 BED)
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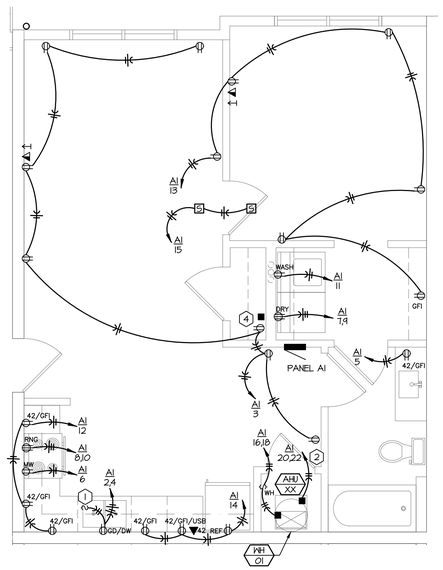

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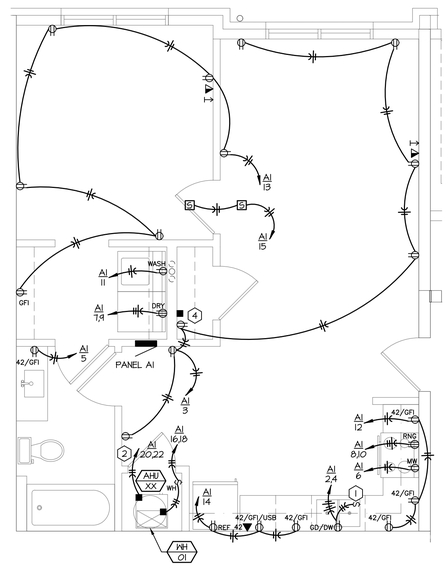

06 ENLARGED POWER AND SPECIAL SYSTEMS PLAN (1 BED)
SCALE: 1/4" = 1'-0"

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C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.

D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.

E. ALL LOW VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.

F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.

G. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.

H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

I. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

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K. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL DEVICES.

L. ALL ELECTRIC BRANCH CIRCUITS SERVING NON COMMERCIAL CLOTHES DRYERS NOTED AS "DRY" SHALL BE 3#10 AND #10 IN 1/2" CONDUIT. PROVIDE 30A RECEPTACLE, NEMA 14-30R. INSTALL AT 48" AFF.

M. ALL ELECTRIC BRANCH CIRCUITS SERVING NON COMMERCIAL WASHERS NOTED AS "WASH" SHALL BE A GFCI INSTALLED AT 48"AFF.

N. ALL GARBAGE DISPOSAL/DISHWASHER RECEPTACLES (NOTED AS GD/DW) SHALL HAVE THE BOTTOM HALF CIRCUITED TO A DEDICATED CIRCUIT WHICH IS ALWAYS HOT FOR THE DISHWASHER, AND THE TOP HALF CIRCUITED TO A DEDICATED CIRCUIT WHICH IS SWITCHED AS INDICATED FOR THE GARBAGE DISPOSAL.

O. ALL ELECTRICAL BRANCH CIRCUITS SERVING NON COMMERCIAL RANGES/STOVES (NOTED AS "RNG") SHALL BE (2) #6, (1) #10 NEUTRAL, AND (1) #10 GROUND IN 3/4" CONDUIT. PROVIDE 50A RECEPTACLE, NEMA 14-50R.

P. ALL ELECTRICAL BRANCH CIRCUITS SERVING WATER HEATERS (NOTED AS "WH") SHALL BE (2) #10'S, AND (1) #10 GROUND IN 3/4" CONDUIT. PROVIDE 30 AMP, 2-POLE TOGGLE SWITCH DISCONNECT.

Q. ALL 120V, 15A AND 20A RECEPTACLES SHALL BE TAMPER RESISTANT TYPE.

R. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

(8) PLAN NOTES:

1. PROVIDE SURFACE MOUNTED TOGGLE SWITCH UNDER SINK FOR GARBAGE DISPOSAL.
2. MAKE ELECTRICAL CONNECTION TO AHU AND HOMERUN WITH (3)#8 & #10 GROUND IN A 3/4" CONDUIT.
3. PROVIDE FAN AND LIGHT SWITCH FOR ADA RANGE EXHAUST HOOD.
4. PROVIDE RECEPTACLE FOR DATA AT 48" AFF. COORDINATE EXACT LOCATION WITH LOW VOLTAGE SYSTEM CONTRACTOR PRIOR TO CONSTRUCTION. PROVIDE JUNCTION BOX AND 1" CONDUIT BACK TO TELECOM CLOSET TO ALLOW FOR CABLING INSTALLATION.
5. MAKE ELECTRICAL CONNECTION TO AHU AND HOMERUN WITH (3)#6 & #10 GROUND IN A 3/4" CONDUIT.

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OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

ENLARGED POWER PLANS

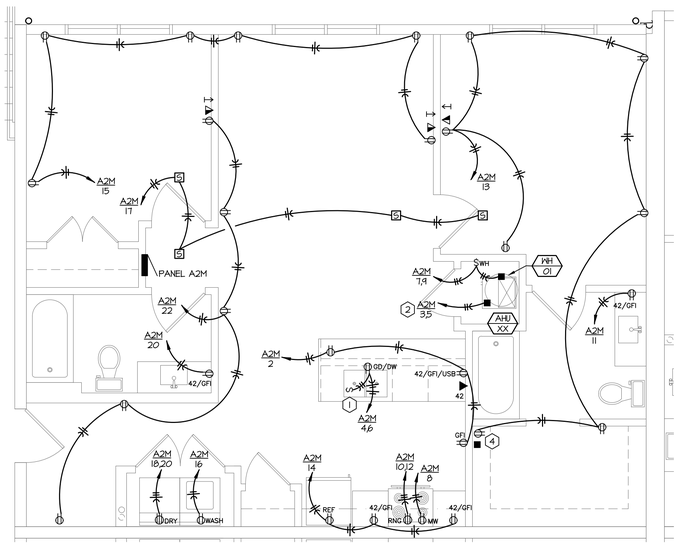
ISSUE DATE:
02.04.2019

REVISIONS:

H&B HOSS & BROWN ENGINEERS
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@h-b-e.com
H&B Project Number: 1820640

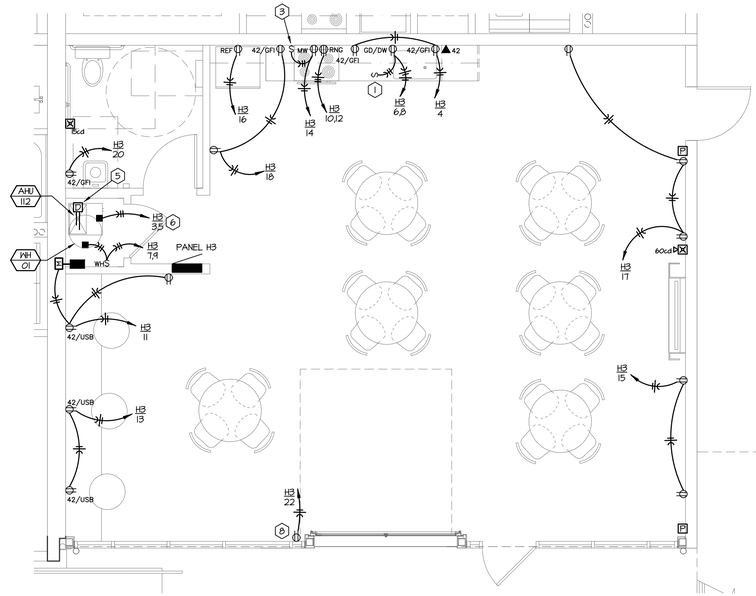
PROJECT NO.: 1803

E4.3



01 ENLARGED POWER AND SPECIAL SYSTEMS PLAN (2 BED MOD REV.)

SCALE: 1/4" = 1'-0"



02 ENLARGED POWER AND SPECIAL SYSTEMS PLAN (COMMUNITY ROOM)

SCALE: 1/4" = 1'-0"

PLAN NOTES:

1. PROVIDE SURFACE MOUNTED TOGGLE SWITCH UNDER SINK FOR GARBAGE DISPOSAL.
2. MAKE ELECTRICAL CONNECTION TO AHU AND HOMERUN WITH (3)#6 & #10 GROUND IN A 3/4" CONDUIT.
3. PROVIDE FAN AND LIGHT SWITCH FOR ADA RANGE EXHAUST HOOD.
4. PROVIDE RECEPTACLE FOR DATA AT 48" AFF. COORDINATE EXACT LOCATION WITH LOW VOLTAGE SYSTEM CONTRACTOR PRIOR TO CONSTRUCTION. PROVIDE JUNCTION BOX AND 1" CONDUIT BACK TO TELECOM CLOSET TO ALLOW FOR CABLING INSTALLATION.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE DUCT SMOKE DETECTOR IN SUPPLY AIR DUCT FOR ALL HVAC UNITS GREATER THAN 2000 CFM SUPPLY. DUCT DETECTORS WITH SHUT DOWN RELAY SHALL BE EQUAL TO SIMPLEX MODEL #4048-9756 WITH SAMPLING TUBE IN LENGTH PROPER FOR DUCT SIZE. #2098-9808 REMOTE KEYED TEST STATION WITH LED ALARM MONITORING. INTERLOCK WITH UNIT TO SHUT DOWN UPON ALARM.
6. PROVIDE 2#2 & 1#6 GRD. IN 1-1/4"C.
7. PROVIDE 2#3 & 1#6 GRD. IN 1-1/4"C.
8. INSTALL RECEPTACLE 6" BELOW FINISHED CEILING.

GENERAL NOTES:

A. THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND INDICATE THE GENERAL EXTENT OF THE WORK. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL PULL BOXES, JUNCTION BOXES AND INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.

B. ELECTRICAL CONTRACTOR SHALL DERATE CONDUCTORS AS REQUIRED BY THE N.E.C. WHEN GROUPED IN COMMON RACEWAYS.

C. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH CONTRACTOR PROVIDED SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN THE SUBMITTALS AND ELECTRICAL DRAWINGS.

D. CONTRACTOR SHALL OFFSET OUTLET BOXES ON OPPOSITE SIDES OF A COMMON WALL TO PREVENT SOUND TRANSMISSION BETWEEN ADJOINING ROOMS. BOXES SHALL BE A MINIMUM OF 12" APART, AND MUST BE INSTALLED IN SEPARATE STUD CAVITIES.

E. ALL LON VOLTAGE WIRES NOT ROUTED IN CONDUIT SHALL BE PROVIDED AS PLENUM RATED CABLES.

F. PROVIDE JUNCTION BOXES AND 3/4" CONDUIT WITH PULL-STRINGS UP TO ACCESSIBLE LOCATION IN PLENUM AT ALL VOICE AND DATA OUTLET LOCATIONS.

G. WHERE BOXES ARE INSTALLED IN CONCRETE BLOCK WALLS, THE BOX MOUNTING HEIGHT SHALL BE AT THE BLOCK JOINT AND THE DEVICES SHALL BE PROVIDED WITH A JUMBO COVERPLATE.

H. ALL WIRES RUN BELOW GRADE, IN CONCRETE THAT IS IN DIRECT CONTACT WITH THE EARTH, OR MASONRY THAT IS IN DIRECT CONTACT WITH THE EARTH SHALL BE WET LOCATION LISTED.

I. ALL ELECTRICAL BRANCH CIRCUITS SERVING OUTLETS AND LIGHTING IN FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER.

J. FURNITURE LAYOUTS ARE FOR REFERENCE ONLY. COORDINATE THE FINAL LOCATION OF ELECTRICAL DEVICES AND OUTLETS WITH ARCHITECT, OWNER AND FINAL FURNITURE PLANS PRIOR TO INSTALLATION.

K. PROVIDE LOCKING CLIPS ON ALL CIRCUIT BREAKERS SERVING TELECOMMUNICATION EQUIPMENT AND FIRE ALARM CONTROL DEVICES.

L. ALL ELECTRIC BRANCH CIRCUITS SERVING NON COMMERCIAL CLOTHES DRYERS NOTED AS "DRY" SHALL BE 3#10 AND #10 IN 1/2" CONDUIT. PROVIDE 30A RECEPTACLE, NEMA 14-30R. INSTALL AT 48" AFF.

M. ALL ELECTRIC BRANCH CIRCUITS SERVING NON COMMERCIAL WASHERS NOTED AS "WASH" SHALL BE A GFCI INSTALLED AT 48"AFF.

N. ALL GARBAGE DISPOSAL/DISHWASHER RECEPTACLES (NOTED AS GD/DW) SHALL HAVE THE BOTTOM HALF CIRCUITED TO A DEDICATED CIRCUIT WHICH IS ALWAYS HOT FOR THE DISHWASHER, AND THE TOP HALF CIRCUITED TO A DEDICATED CIRCUIT WHICH IS SWITCHED AS INDICATED FOR THE GARBAGE DISPOSAL.

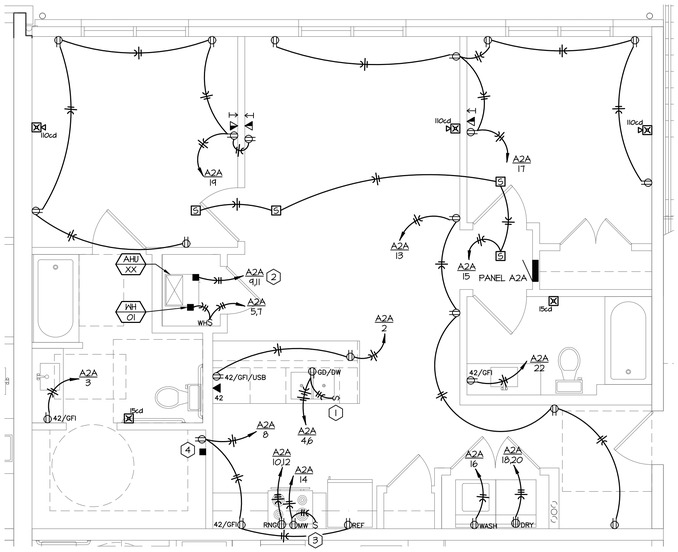
O. ALL ELECTRICAL BRANCH CIRCUITS SERVING NON COMMERCIAL RANGES/STOVES (NOTED AS "RNG") SHALL BE (2) #8, (1) #10 NEUTRAL, AND (1) #10 GROUND IN 3/4" CONDUIT. PROVIDE 50A RECEPTACLE, NEMA 14-50R.

P. ALL ELECTRICAL BRANCH CIRCUITS SERVING WATER HEATERS (NOTED AS "WH") SHALL BE (2) #10'S, AND (1) #10 GROUND IN 3/4" CONDUIT. PROVIDE 30 AMP, 2-POLE TOGGLE SWITCH DISCONNECT.

Q. ALL 120V, 15A AND 20A RECEPTACLES SHALL BE TAMPER RESISTANT TYPE.

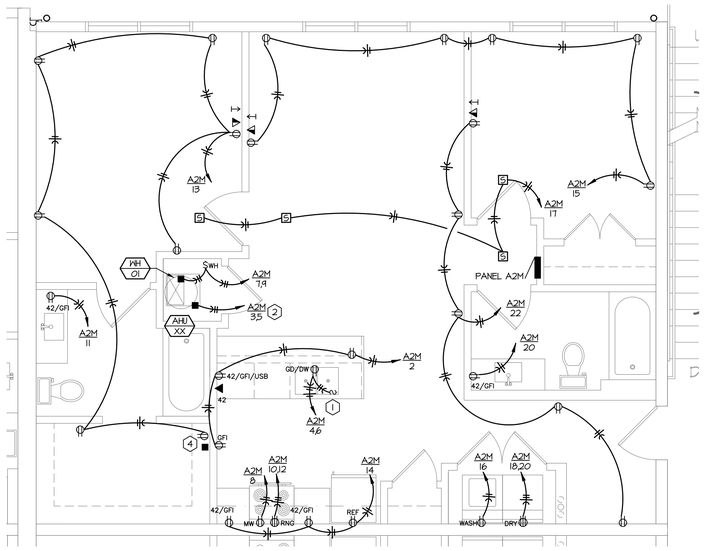
R. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

S. COORDINATE WITH CASEWORK INSTALLER LOCATION OF RECEPTACLES INSTALLED IN KITCHEN CASEWORK. COORDINATE WITH OWNER FOR EXACT LOCATION PRIOR TO INSTALLATION.



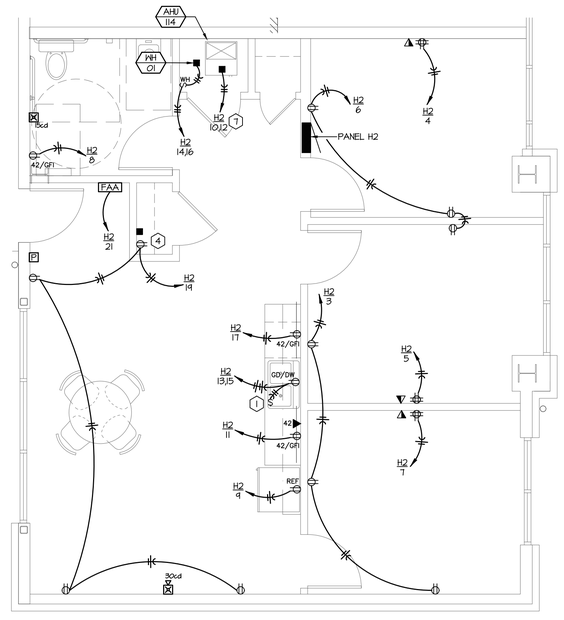
04 ENLARGED POWER AND SPECIAL SYSTEMS PLAN (2 BED - TYPE A)

SCALE: 1/4" = 1'-0"



05 ENLARGED POWER AND SPECIAL SYSTEMS PLAN (2 BED MOD.)

SCALE: 1/4" = 1'-0"



03 ENLARGED POWER AND SPECIAL SYSTEMS PLAN (OFFICE SUITE)

SCALE: 1/4" = 1'-0"

H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-8090 phone
mail@h-b-e.com
H&B Project Number: 1820640
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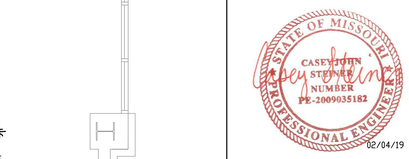
SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

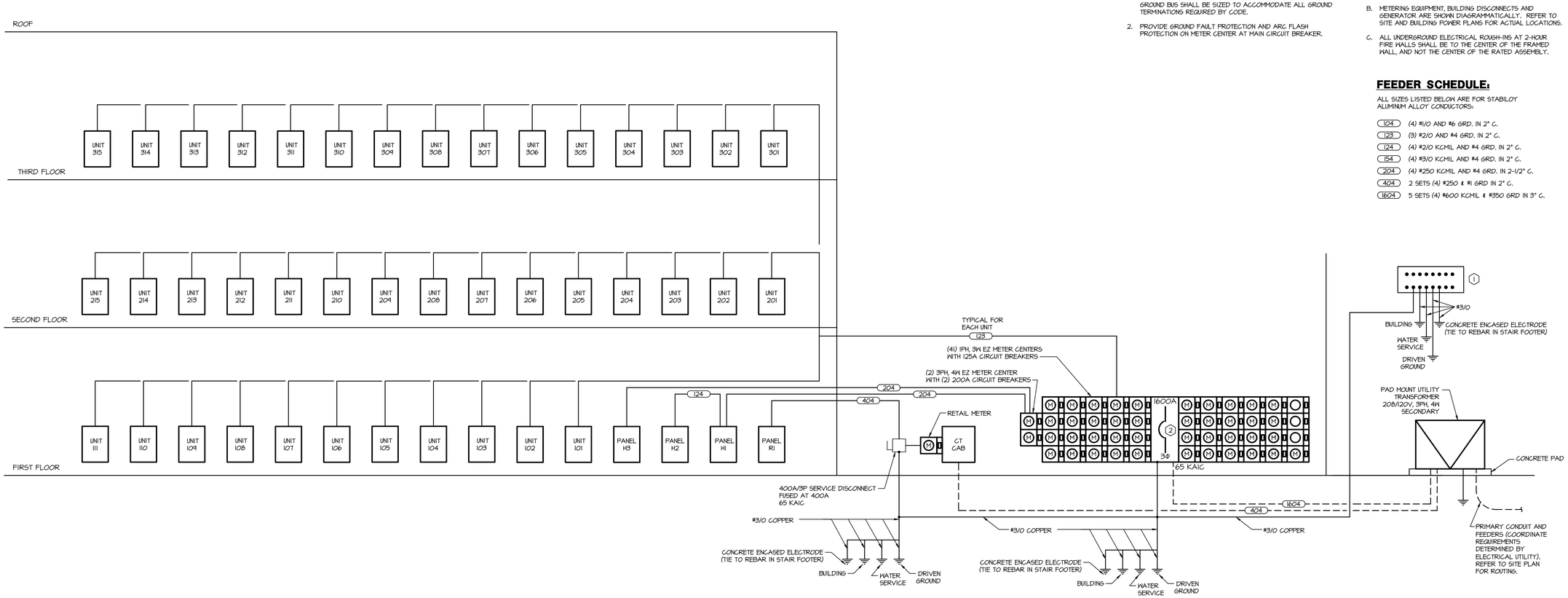


ENLARGED POWER PLANS

ISSUE DATE:
02.04.2019
REVISIONS:

PROJECT NO.: 1803

E4.4



ELECTRICAL RISER NOTES:

1. PROVIDE MINIMUM 48"X4"X1/4" COPPER BUILDING SYSTEM GROUNDING BUS ON WALL IN TELECOMMUNICATIONS ROOM. GROUND BUS SHALL BE SIZED TO ACCOMMODATE ALL GROUND TERMINATIONS REQUIRED BY CODE.
2. PROVIDE GROUND FAULT PROTECTION AND ARC FLASH PROTECTION ON METER CENTER AT MAIN CIRCUIT BREAKER.

GENERAL NOTES:

A. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ROUTING OF ALL FEEDERS THROUGH BUILDING.

B. METERING EQUIPMENT, BUILDING DISCONNECTS AND GENERATOR ARE SHOWN DIAGRAMMATICALLY. REFER TO SITE AND BUILDING POWER PLANS FOR ACTUAL LOCATIONS.

C. ALL UNDERGROUND ELECTRICAL ROUGH-INS AT 2-HOUR FIRE WALLS SHALL BE TO THE CENTER OF THE FRAMED WALL, AND NOT THE CENTER OF THE RATED ASSEMBLY.

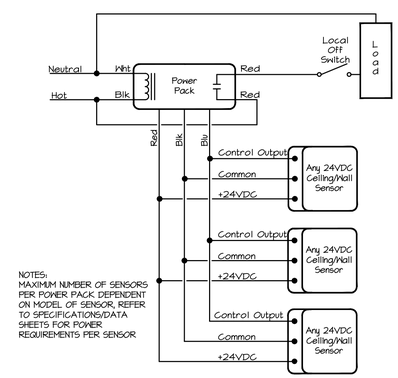
FEEDER SCHEDULE:

ALL SIZES LISTED BELOW ARE FOR STABILOY ALUMINUM ALLOY CONDUCTORS:

- 104 (4) #1/0 AND #6 GRD, IN 2" C.
- 123 (3) #2/0 AND #4 GRD, IN 2" C.
- 124 (4) #2/0 KCMIL AND #4 GRD, IN 2" C.
- 154 (4) #3/0 KCMIL AND #4 GRD, IN 2" C.
- 204 (4) #250 KCMIL AND #4 GRD, IN 2-1/2" C.
- 404 2 SETS (4) #250 & #1 GRD IN 2" C.
- 1604 5 SETS (4) #600 KCMIL & #350 GRD IN 3" C.

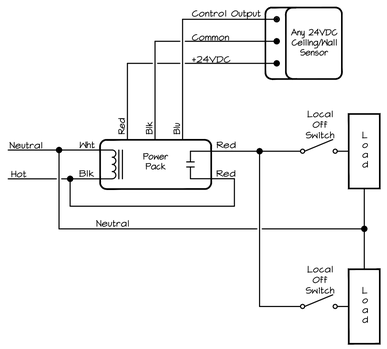
01 ELECTRICAL RISER DIAGRAM

SCALE: NONE



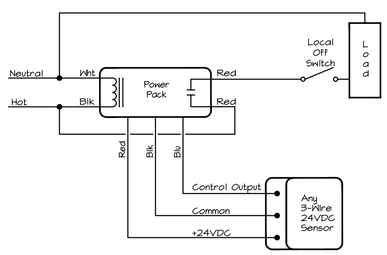
04 Ceiling Mounted Occupancy Sensor 24v Mutiple Sensors Wiring Diagram

Scale: Not to Scale



03 Ceiling Mounted Occupancy Sensor 24v Dual Level Switched Wiring Diagram

Scale: Not to Scale



02 Ceiling Mounted Occupancy Sensor 24v Wiring Diagram

Scale: Not to Scale

METER BANK ELECTRICAL DEMAND LOAD SUMMARY ESTIMATE (PER NEC 220.84)

BUILDING	TOTAL
NUMBER OF UNITS	41
NET APARTMENT SQUARE FOOTAGE	36317
(2) 1500 VA SMALL APPLIANCE BRANCH CIRCUIT	123000
3 VA /SQFT GENERAL LIGHTING AND RECEPTACLES	108451
ELECTRIC RANGE (9100 VA)	313100
DISHWASHER (1500 VA)	61500
GARBAGE DISPOSAL (1200 VA)	49200
ELECTRIC WATER HEATER (4500 VA)	184500
CLOTHES WASHER (1500 VA)	61500
CLOTHES DRYER (5000 VA)	205000
MICROWAVE (1500 VA)	61500
ELECTRIC HEAT FURNACE 41 UNITS AT 8000 VA	328000
TOTAL UNIT LOADS (VA)*	**1556251**
DEMAND FACTOR (FROM NEC T220.84)	**0.28**
UNIT DEMAND LOAD (VA)**	435750
UNIT DEMAND LOAD (AMPS)***	**1210**
HOUSE DEMAND LOAD - PANEL H1 (VA)	56000
HOUSE DEMAND LOAD - PANEL H1 (AMPS)	156
HOUSE DEMAND LOAD - PANEL H3 (VA)	46000
HOUSE DEMAND LOAD - PANEL H3 (AMPS)	128
TOTAL METER BANK DEMAND LOAD (VA)	**537750**
TOTAL METER BANK DEMAND LOAD (AMPS)	**1494**
TOTAL METER BANK SIZE (AMPS)	**1600**

* VALUE IS THE SUM OF THE LOADS FROM THE PREVIOUS TWELVE LINES.
** VALUE IS THE TOTAL UNITS LOADS MULTIPLIED BY THE BUILDING DEMAND FACTOR.
*** VALUE IS THE UNIT DEMAND LOADS.

SWD ARCHITECTS
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SEAL
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MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI · CASEY JOHN STEINER · NUMBER PE-2009035182 · PROFESSIONAL ENGINEER
02/04/19

ELECTRICAL RISER DIAGRAM & DETAILS

ISSUE DATE:
02.04.2019

REVISIONS:

H&B HOSS & BROWN ENGINEERS
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@h-b-e.com
H&B Project Number: 1820640

PROJECT NO.: 1803

E5.1

PANEL R1

DESCRIPTION: 400A MCB, 100% Neutral Bus — VOLTAGE: 120/208V, 3PH, 4 WIRE
10 kAIC RATING — TOTAL CONNECTED LOAD: 43kW= 120A; DEMANDED LOAD CONTINUOUS: 53kW= 148A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO	
1	224	LIGHTING	1	20 A	1	20 A	1	RECEPT - 113	1000	2	
3		SPARE	1	20 B	1	20 A	1	RECEPT - 113	1000	4	
5		SPARE	1	20 C	1	20 A	1	RECEPT/DAMPER - 113	460	6	
7		SPARE	1	20 A	1	100 A	2	AHU-113B	10000	8	
9		SPARE	1	20 B	1	- -	-	-----	10000	10	
11		SPARE	1	20 C	1	20 C	1	RECEPT/DAMPER - 113	460	12	
13		SPARE	1	20 A	1	100 A	2	AHU-113A	10000	14	
15		SPARE	1	20 B	1	- -	-	-----	10000	16	
17		SPARE	1	20 C	1	50 C	2	HP-113A	2663	18	3
19		SPARE	1	20 A	1	- -	-	-----	2663	20	
21		SPARE	1	20 B	1	50 C	2	HP-113B	2663	22	3
23		SPARE	1	20 C	1	- -	-	-----	2663	24	
25		SPARE	1	20 A	1	20 A	1	SPARE		26	
27		SPARE	1	20 B	1	20 B	1	SPARE		28	
29		SPARE	1	20 C	1	20 C	1	SPARE		30	
31		SPARE	1	20 A	1	20 A	1	SPARE		32	
33		SPARE	1	20 B	1	20 B	1	SPARE		34	
35		SPARE	1	20 C	1	20 C	1	SPARE		36	
37		SPARE	1	20 A	1	20 A	1	SPARE		38	
39		SPARE	1	20 B	1	20 B	1	SPARE		40	
41		SPARE	1	20 C	1	20 C	1	SPARE		42	

NOTES: 1. PROVIDE AFCI TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER
3. PROVIDE HACR TYPE CIRCUIT BREAKER

PANEL H1

DESCRIPTION: 200A MCB, 100% Neutral Bus — VOLTAGE: 120/208V, 3PH, 4 WIRE
10 kAIC RATING — TOTAL CONNECTED LOAD: 48kW= 134A; DEMANDED LOAD CONTINUOUS: 56kW= 154A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO	
1	460	EXTERIOR SITE LIGHTING	1	20 A	3	30	2	EWH-02	2400	2	
3	100	EXTERIOR LTG TIMECLOCK	1	20 B	-	-	-	-----	2400	4	
5	840	BREEZEWAY LTG NORTH	1	20 C	3	30	2	EWH-01	2400	6	
7	1200	BREEZEWAY LTG CENTRAL/SOUTH	1	20 A	-	-	-	-----	2400	8	
9		SPARE	1	20 B	1	20 B	1	RECEPT - 119	1000	10	2
11		SPARE	1	20 C	1	20 C	2	RECEPT - 119	360	12	
13		SPARE	1	20 A	1	20 A	1	RECEPT - 119	180	14	
15		SPARE	1	20 B	1	20 B	1	RECEPT - 119	500	16	
17		SPARE	1	20 C	1	20 C	1	RECEPT - 121, 221, 321	900	18	
19		SPARE	1	20 A	1	20 A	1	RECEPT - 120, 220, 320	1440	20	
21		SPARE	1	20 B	1	20 B	1	RECEPT - 122, 222, 322	1440	22	
23		SPARE	1	20 C	1	20 C	1	FACP	1000	24	
25		SPARE	1	20 A	1	20 A	1	RECEPTACLES - ROOF	720	26	
27		SPARE	1	20 B	1	20 B	1	RECEPTACLES - ROOF	900	28	
29		SPARE	1	20 C	1	20 C	1	SPARE		30	
31		SPARE	1	20 A	1	20 A	1	SPARE		32	
33		SPARE	1	20 B	1	20 B	1	SPARE		34	
35		SPARE	1	20 C	1	20 C	1	SPARE		36	
37		SPARE	1	20 A	1	125 A	3	PANEL H2	-	38	
39		SPARE	1	20 B	1	- -	-	-----	-	40	
41		SPARE	1	20 C	1	- -	-	-----	-	42	

NOTES: 1. PROVIDE AFCI TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER
3. PROVIDE HACR TYPE CIRCUIT BREAKER

PANEL H2

DESCRIPTION: 125A MCB, 100% Neutral Bus — VOLTAGE: 120/208V, 3PH, 4 WIRE
10 kAIC RATING — TOTAL CONNECTED LOAD: 28kW= 77A; DEMANDED LOAD CONTINUOUS: 32kW= 88A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO	
1	521	LIGHTING - 114	1	20 A	1	20 A	1	SPARE		2	
3	540	RECEPTACLES -114	1	20 B	1	20 B	1	RECEPTACLES -114	360	4	
5	360	RECEPTACLES -114	1	20 C	1	20 C	1	RECEPTACLES -114	540	6	
7	360	RECEPTACLES -114	1	20 A	1	20 A	2	RECEPTACLES -114	180	8	
9	500	REFRIGERATOR -144	1	20 B	1	80 B	2	AHU-114	1500	10	
11	180	RECEPT - KITCHEN - 114	1	20 C	1	- -	-	----	1500	12	
13	1200	GARBAGE DISP -144	1	20 A	1	30 A	2	WATER HEATER - 114	2250	14	2
15	1500	DISHWASHER - 114	1	20 B	1	- -	-	-----	2250	16	2
17	180	RECEPT - KITCHEN - 114	1	20 C	1	45 C	2	HP-114	2164	18	3
19	720	RECEPTACLES -114	1	20 A	1	- -	-	----	2164	20	
21	1000	FIRE ALARM ANUN. PNL.	1	20 B	1	20 B	1	SPARE		22	
23		SPARE	1	20 C	1	20 C	1	SPARE		24	
25		SPARE	1	20 A	1	20 A	1	SPARE		26	
27		SPARE	1	20 B	1	20 B	1	SPARE		28	
29		SPARE	1	20 C	1	20 C	1	SPARE		30	

NOTES: 1. PROVIDE AFCI TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER
3. PROVIDE HACR TYPE CIRCUIT BREAKER

PANEL H3

DESCRIPTION: 200A MCB, 100% Neutral Bus — VOLTAGE: 120/208V, 3PH, 4 WIRE
10 kAIC RATING — TOTAL CONNECTED LOAD: 42kW= 116A; DEMANDED LOAD CONTINUOUS: 47kW= 130A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO	
1	314	LIGHTING - 112	1	20 A	1	20 A	1	SPARE		2	
3	10000	AHU-112	2	100 B	1	20 B	1	RECEPT - KITCHEN - 112	360	4	
5	10000	-----	-	- -	1	20 C	1	GARBAGE DISP - 112	1200	6	2
7	2250	WATER HEATER - 112	2	30 A	1	20 A	1	DISHWASHER - 112	1500	8	2
9	2250	-----	-	- -	1	50 B	2	RANGE - 112	4550	10	
11	460	RECEPTACLES - 112	1	20 C	-	- -	-	-----	4550	12	
13	360	RECEPTACLES - 112	1	20 A	1	20 A	1	MICROWAVE	1000	14	
15	360	RECAPTACLES - 112	1	20 B	1	20 B	1	RECEPT - KITCHEN - 112	180	16	
17	540	RECEPTACLES - 112	1	20 C	1	20 C	1	REFRIGERATOR - 112	500	18	
19	2663	HP-112	2	50 A	1	20 A	1	RECEPTACLES - 112	180	20	3
21	2663	-----	-	- -	1	20 B	1	RECEPT - FUTURE DOOR	1000	22	
23		SPARE	1	20 C	1	20 C	1	SPARE		24	
25		SPARE	1	20 A	1	20 A	1	SPARE		26	
27		SPARE	1	20 B	1	20 B	1	SPARE		28	
29		SPARE	1	20 C	1	20 C	1	SPARE		30	

NOTES: 1. PROVIDE AFCI TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER
3. PROVIDE HACR TYPE CIRCUIT BREAKER

LIGHT FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	LAMP DATA LUMENS	TYPE	COLOR (K)	VOLTS	MOUNTING	TOTAL WATTS	DESCRIPTION	NOTES
A1	PHILIPS	SSR830K10	1000	LED	3000	120	SURFACE	15	7" ROUND DOWNLIGHT	
A2	PHILIPS	SSR830K7	650	LED	3000	120	SURFACE	10	5" ROUND DOWNLIGHT	
B	HUNTER	54242	2000	LED	3000	120	PENDANT	86	CEILING FAN W/LED	
HI	ALCON	12122-4-R28W2800-35K	2800	LED	3500	UNV	PENDANT	28	4' DOMED LINEAR PENDANT	4
HIE	ALCON	12122-4-R28W2800-35K-EM	2800	LED	3500	UNV	PENDANT	28	4' DOMED LINEAR PENDANT W/EMERGENCY BATTERY	2,4
H2	ALCON	12122-4-R40W4000-35K	4000	LED	3500	UNV	PENDANT	40	4' DOMED LINEAR PENDANT	4
I	WILLIAMS	34-4-L30/835-A-DRV-UNV	3000	LED	3500	UNV	SURFACE	25	1X4 SURFACE MOUNT WRAP W/EMERGENCY BATTERY	
IE	WILLIAMS	34-4-L30/835-A-EM/IONLP-DRV-UNV	3000	LED	3500	UNV	SURFACE	25	1X4 SURFACE MOUNT WRAP	
SA	MCGRAW EDISON	GNC-AF-01-LED-E1-SL3	6360	LED	4000	UNV	WALL	51	EXTERIOR WALL PACK	
X	WILLIAMS	EXIT-R-EM-WHT-D	-	LED	-	UNV	SEE PLANS	4	LED EXIT SIGN W/EMERGENCY BATTERY	1,3

NOTES:
1. PROVIDE NUMBER OF FACES AND DIRECTIONAL ARROWS TO MATCH WHAT IS SHOWN ON DRAWINGS.
2. PROVIDE WITH INTEGRAL EMERGENCY BATTERY BACK-UP DRIVER.
3. PROVIDE WITH SELF-TESTING / SELF-DIAGNOSTICS.
4. SUSPEND FIXTURE 8'-0" ABOVE FINISH FLOOR.

GENERAL NOTES:
A. PROVIDE ALL REQUIRED ACCESSORIES FOR A COMPLETE INSTALLATION.
B. REFERENCE PLANS FOR FIXTURES REQUIRING EMERGENCY DRIVERS.
C. CONTRACTOR SHALL VERIFY CEILING TYPE PRIOR TO ORDERING ALL FIXTURES.
D. MANUFACTURER EQUALS ACCEPTED UPON ENGINEERS APPROVAL.
E. CONTRACTOR SHALL VERIFY FINISH WITH ARCHITECT PRIOR TO SUBMITTAL.

PANEL A2 (LOAD CENTER)

DESCRIPTION: 125A MCB, 100% Neutral Bus — VOLTAGE: 120/208V, 1PH, 3 WIRE
10 kAIC RATING — TOTAL CONNECTED LOAD: 38kW= 184A; DEMANDED LOAD CONTINUOUS: 23kW= 111A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO	
1	484	LIGHTING	1	20 A	1	20 A	1	RECEPT - KITCHEN	540	2	
3	720	RECEPTACLES	1	20 B	1	20 B	1	GARBAGE DISPOSAL	1200	4	2
5	180	RECEPT - BATH RM	1	20 A	1	20 A	1	DISHWASHER	1500	6	2
7	900	RECEPTACLES	1	20 B	1	20 B	1	RECEPT - KITCHEN	720	8	
9	900	RECEPTACLES	1	20 A	1	50 A	2	RANGE	4550	10	
11	900	RECEPTACLES	1	20 B	1	- -	-	-----	4550	12	
13	180	RECPT - BATH RM	1	20 A	1	20 A	1	MICROWAVE	1000	14	
15	1000	SMOKE DETECTORS	1	20 B	1	30 B	2	DRYER	2500	16	
17	1165	HP-XXX	2	25 A	1	- -	-	-----	2500	18	3
19	1165	-----	-	- -	1	20 B	1	WASHER	1500	20	2
21		SPARE	1	20 A	1	45 A	2	AHU-XXX	4000	22	
23		SPARE	1	20 B	1	- -	-	-----	4000	24	
25		SPARE	1	20 A	1	30 A	2	WATER HEATER	2250	26	
27		SPARE	1	20 B	1	- -	-	-----	2250	28	
29		SPARE	1	20 A	1	20 A	1	SPARE		30	

NOTES: 1. PROVIDE AFCI TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER
3. PROVIDE HACR TYPE CIRCUIT BREAKER

PANEL A1 (LOAD CENTER)

DESCRIPTION: 125A MCB, 100% Neutral Bus — VOLTAGE: 120/208V, 1PH, 3 WIRE
10 kAIC RATING — TOTAL CONNECTED LOAD: 36kW= 174A; DEMANDED LOAD CONTINUOUS: 23kW= 109A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO	
1	272	LIGHTING	1	20 A	1	20 A	1	GARBAGE DISPOSAL	1200	2	2
3	1260	RECEPTACLES	1	20 B	1	20 B	1	DISHWASHER	1500	4	2
5	180	RECEPT - BATH RM	1	20 A	1	20 A	1	MICROWAVE	1000	6	
7	2500	DRYER	2	30 B	1	50 B	2	RANGE	4550	8	
9	2500	-----	-	- -	1	- -	-	-----	4550	10	
11	1500	WASHER	1	20 B	1	20 B	1	RECEPT - KITCHEN	540	12	
13	1080	RECEPTACLES	1	20 A	1	20 A	1	RECEPT - KITCHEN	540	14	
15	500	SMOKE DETECTORS	1	20 B	1	30 B	2	WATER HEATER	2250	16	
17		SPARE	1	20 A	1	- -	-	-----	2250	18	
19		SPARE	1	20 B	1	40 B	2	AHU-XXX	4000	20	
21		SPARE	1	20 A	1	- -	-	-----	4000	22	
23		SPARE	1	20 B	1	20 B	2	HP-XXX	744	24	3
25		SPARE	1	20 A	1	- -	-	-----	744	26	
27		SPARE	1	20 B	1	20 B	1	SPARE		28	
29		SPARE	1	20 A	1	20 A	1	SPARE		30	

NOTES: 1. PROVIDE AFCI TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER
3. PROVIDE HACR TYPE CIRCUIT BREAKER

PANEL A2A (LOAD CENTER)

DESCRIPTION: 125A MCB, 100% Neutral Bus — VOLTAGE: 120/208V, 1PH, 3 WIRE
10 kAIC RATING — TOTAL CONNECTED LOAD: 37kW= 180A; DEMANDED LOAD CONTINUOUS: 23kW= 111A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO	
1	414	LIGHTING	1	20 A	1	20 A	1	RECEPT - KITCHEN	360	2	
3	180	RECEPT - BATH RM	1	20 B	1	20 B	1	GARBAGE DISPOSAL	1200	4	2
5	2250	WATER HEATER	1	20 A	1	20 A	1	DISHWASHER	1500	6	2
7	2250	-----	1	20 B	1	20 B	1	RECEPT - KITCHEN	540	8	
9	4000	AHU-XXX	1	20 A	1	50 A	2	RANGE	4550	10	
11	4000	-----	1	20 B	1	- -	-	-----	4550	12	
13	720	RECEPTACLES	1	20 A	1	20 A	1	MICROWAVE	1000	14	
15	1000	SMOKE DETECTORS	1	20 B	1	20 B	1	WASHER	1500	16	2
17	1080	RECEPTACLES	1	20 A	1	30 A	2	DRYER	2500	18	
19	1080	RECEPTACLES	1	20 B	1	- -	-	-----	2500	20	
21	1165	HP-XXX	2	25 A	1	20 A	1	RECEPT - BATH RM	180	22	3
23	1165	-----	-	- B	1	20 B	1	SPARE		24	
25		SPARE	1	20 A	1	20 A	1	SPARE		26	
27		SPARE	1	20 B	1	20 B	1	SPARE		28	
29		SPARE	1	20 A	1	20 A	1	SPARE		30	

NOTES: 1. PROVIDE AFCI TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER
3. PROVIDE HACR TYPE CIRCUIT BREAKER

PANEL A1A (LOAD CENTER)

DESCRIPTION: 125A MCB, 100% Neutral Bus — VOLTAGE: 120/208V, 1PH, 3 WIRE
10 kAIC RATING — TOTAL CONNECTED LOAD: 36kW= 173A; DEMANDED LOAD CONTINUOUS: 23kW= 109A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO	
1	272	LIGHTING	1	20 A	1	20 A	1	RECEPT - KITCHEN	540	2	
3	900	RECEPTACLES	1	20 B	1	20 B	1	GARBAGE DISPOSAL	1200	4	2
5	1260	RECEPTACLES	1	20 A	1	20 A	1	DISHWASHER	1500	6	2
7	500	SMOKE DETECTORS	1	20 B	1	50 B	2	RANGE	4550	8	
9	4000	AHU-XXX	2	40 A	1	- -	-	-----	4550	10	
11	4000	-----	-	- B	1	20 B	1	MICROWAVE	1000	12	
13	2250	WATER HEATER	2	30 A	1	20 A	1	RECEPT - KITCHEN	540	14	
15	2250	-----	-	- B	1	20 B	1	RECEPT - BATH RM	180	16	
17	744	HP-XXX	2	20 A	1	30 B	2	DRYER	2500	18	3
19	744	-----	-	- B	-	- -	-	-----	2500	20	
21		SPARE	1	20 A	1	20 A	1	WASHER	1500	22	2
23		SPARE	1	20 B	1	20 B	1	SPARE		24	
25		SPARE	1	20 A	1	20 A	1	SPARE		26	
27		SPARE	1	20 B	1	20 B	1	SPARE		28	
29		SPARE	1	20 A	1	20 A	1	SPARE		30	

NOTES: 1. PROVIDE AFCI TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER
3. PROVIDE HACR TYPE CIRCUIT BREAKER

PANEL A2M (LOAD CENTER)

DESCRIPTION: 125A MCB, 100% Neutral Bus — VOLTAGE: 120/208V, 1PH, 3 WIRE
10 kAIC RATING — TOTAL CONNECTED LOAD: 38kW= 182A; DEMANDED LOAD CONTINUOUS: 23kW= 111A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO	
1	474	LIGHTING	1	20 A	1	20 A	1	RECEPT - KITCHEN	540	2	
3	4000	AHU-XXX	2	45 B	1	20 B	1	GARBAGE DISPOSAL	1200	4	2
5	4000	-----	-	- -	1	20 A	1	DISHWASHER	1500	6	2
7	2250	WATER HEATER	2	30 B	1	20 B	1	MICROWAVE	1000	8	
9	2250	-----	-	- -	1	50 A	2	RANGE	4550	10	
11	180	RECEPT - BATH RM	1	20 B	1	- -	-	-----	4550	12	
13	1260	RECEPTACLES	1	20 A	1	20 A	1	RECEPT - KITCHEN	540	14	
15	1080	RECEPTACLES	1	20 B	1	20 B	1	WASHER	1500	16	2
17	1000	SMOKE DETECTORS	1	20 A	1	30 A	2	DRYER	2500	18	
19	1165	HP-XXX	2	25 B	1	- -	-	-----	2500	20	3
21	1165	-----	-	- A	1	20 A	1	RECEPTACLES	900	22	1
23		SPARE	1	20 B	1	20 B	1	RECEPT - BATH RM	180	24	
25		SPARE	1	20 A	1	20 A	1	SPARE		26	
27		SPARE	1	20 B	1	20 B	1	SPARE		28	
29		SPARE	1	20 A	1	20 A	1	SPARE		30	

NOTES: 1. PROVIDE AFCI TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER
3. PROVIDE HACR TYPE CIRCUIT BREAKER

PANEL A1M (LOAD CENTER)

DESCRIPTION: 125A MCB, 100% Neutral Bus — VOLTAGE: 120/208V, 1PH, 3 WIRE
10 kAIC RATING — TOTAL CONNECTED LOAD: 36kW= 174A; DEMANDED LOAD CONTINUOUS: 23kW= 109A

NO	LOAD (W)	LOAD DESCRIPTION	P	AMP SIZE	PH	AMP SIZE	P	LOAD DESCRIPTION	LOAD (W)	NO	
1	272	LIGHTING	1	20 A	1	20 A	1	RECEPT - KITCHEN	540	2	
3	180	RECEPT - BATH RM	1	20 B	1	20 B	1	GARBAGE DISPOSAL	1200	4	2
5	2500	DRYER	2	30 A	1	20 A	1	DISHWASHER	1500	6	2
7	2500	-----	-	- B	1	50 B	2	RANGE	4550	8	
9	1500	WASHER	1	20 A	1	- -	-	-----	4550	10	
11	1020	RECEPTACLES	1	20 B	1	20 B	2	MICROWAVE	1000	12	
13	500	SMOKE DETECTORS	1	20 A	1	20 A	1	RECEPT - KITCHEN	540	14	
15	4000	AHU-XXX	2	40 B	1	20 B	1	RECEPTACLES	1260	16	1
17	4000	-----	-	- A	1	20 A	1	SPARE		18	
19	2250	WATER HEATER	2	30 B	1	20 B	1	SPARE		20	
21	2250	-----	-	- A	1	20 A	1	SPARE		22	
23	744	HP-XXX	2	20 B	1	20 B	1	SPARE		24	
25	744	-----	-	- A	1	20 A	1	SPARE		26	
27		SPARE	1	20 B	1	20 B	1	SPARE		28	
29		SPARE	1	20 A	1	20 A	1	SPARE		30	

NOTES: 1. PROVIDE AFCI TYPE CIRCUIT BREAKER
2. PROVIDE GFCI TYPE CIRCUIT BREAKER
3. PROVIDE HACR TYPE CIRCUIT BREAKER

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

STATE OF MISSOURI — CASEY JOHN STEINER — NUMBER PE-2009035182 — PROFESSIONAL ENGINEER — 02/04/19

ELECTRICAL SCHEDULES

ISSUE DATE:
02.04.2019

REVISIONS:

H&B HOSS & BROWN ENGINEERS
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@h-b-e.com
H&B Project Number: 1820640

PROJECT NO.: 1803

E6.1

MECHANICAL EQUIPMENT AND ELECTRICAL CONNECTION SCHEDULE

EQUIPMENT			LOAD												STARTER/DISCONNECT								
								FROM		CONDUCTORS & CONDUIT					STARTER		DISCONNECT SWITCH						
MARK	DESCRIPTION	LOCATION	VOLTAGE (V/PH)	SIZE (HP)/(KW)	RATING (FLA)	RATING (MCA)	MOP (AMPS)	NAME	CKT. No.	No.	WIRE SZ	GROUND	CONDUIT		SIZE	TYPE	AMPS	FUSE (A)	POLES	NEMA EN.	VFD	NOTES
HP-101	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-102	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-103	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-104	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-105	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-106	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-107	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-108	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-109	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-110	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1A	17,19	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-111	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2A	21,23	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-112	HEAT PUMP	ROOFTOP	208/1	-	-	32	50	H3	19,21	2	8	10	3/4"		-	-	60	-	2	3R	-	1
HP-113A	HEAT PUMP	ROOFTOP	208/1	-	-	32	50	R1	18,20	2	8	10	3/4"		-	-	60	-	2	3R	-	1
HP-113B	HEAT PUMP	ROOFTOP	208/1	-	-	32	50	R1	22,24	2	8	10	3/4"		-	-	60	-	2	3R	-	1
HP-114	HEAT PUMP	ROOFTOP	208/1	-	-	26	45	H2	18,20	2	10	10	1/2"		-	-	60	-	2	3R	-	1
HP-201	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-202	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-203	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-204	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-205	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-206	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-207	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-208	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-209	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-210	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1M	23,25	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-211	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2M	19,21	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-212	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2M	19,21	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-213	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-214	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-215	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-301	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-302	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-303	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-304	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-305	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-306	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-307	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-308	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-309	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1	24,26	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-310	HEAT PUMP	ROOFTOP	208/1	-	-	9	20	A1M	23,25	2	12	12	1/2"		-	-	30	-	2	3R	-	1
HP-311	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2M	19,21	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-312	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2M	19,21	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-313	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-314	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1
HP-315	HEAT PUMP	ROOFTOP	208/1	-	-	14	25	A2	17,19	2	12	10	1/2"		-	-	30	-	2	3R	-	1

NOTES

1. CIRCUIT EQUIPMENT TO PANEL IN UNIT IT SERVES.

GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL REFER TO POWER PLANS FOR LOCATION OF ALL EQUIPMENT AND SHALL FIELD VERIFY AND COORDINATE EXACT LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN.
B. REFER TO MOTOR NAMEPLATES FOR SPECIFIC MOTOR INFORMATION.
C. LISTED CONDUCTOR AND CONDUIT SIZES ARE BASED ON COPPER WIRE WITH THWN/THHN INSULATION AT 30 DEGREE C MAXIMUM AMBIENT TEMPERATURE USING 75 DEGREE INSULATION AMPACITY RATINGS. ADJUST CONDUCTOR SIZES FOR AMBIENT TEMPERATURES ABOVE 30 DEGREES C. ADJUST CONDUIT SIZES PER NEC.

LIGHTING CONTROLS SCHEDULE

MARK	MANUFACTURER	MODEL	DEVICE	MOUNTING	RELAYS	DIMMING	PIR	ULTRA SONIC	TIME DELAY SETTINGS	AMBIENT LIGHT CONTROL	MANUAL ON	AUTO ON	MAXIMUM LOAD	VOLTS	NOTES	CONTROL NOTES
RC1	WATTSTOPPER	LMRC-101	ROOM CONTROLLER	PLENUM	1	-	-	-	-	-	-	-	20A	120/277		
RC2	WATTSTOPPER	LMRC-102	ROOM CONTROLLER	PLENUM	2	-	-	-	-	-	-	-	20A	120/277		
RC3	WATTSTOPPER	LMRC-103	ROOM CONTROLLER	PLENUM	3	-	-	-	-	-	-	-	20A	120/277		
O2	WATTSTOPPER	LMDC-100	OCCUPANCY SENSOR	CEILING	-	-	YES	YES	-	-	YES	RR/CORR	-	24VDC		
W2	WATTSTOPPER	LMSW-102	PERSONAL CONTROL - 2 BUTTON	WALL	-	-	-	-	-	-	-	-	-	24VDC	1	
W3	WATTSTOPPER	LMSW-103	PERSONAL CONTROL - 3 BUTTON	WALL	-	-	-	-	-	-	-	-	-	24VDC	1	
WO	WATTSTOPPER	LMPW-100	PERSONAL CONTROL - OCC. SENSOR	WALL	-	-	YES	-	15 MINUTES	-	YES	NO	-	24VDC	1	

NOTES:

1. ARCHITECT SHALL SELECT COLOR FROM MANUFACTURER'S COLOR PALATE DURING THE SUBMITTAL PROCESS.

CONTROL NOTES:

1. AUTO ON (OCCUPANCY MODE): LOAD TURNS ON AND OFF AUTOMATICALLY BASED ON OCCUPANCY. IF LOAD IS TURNED OFF MANUALLY, LOAD REMAINS OFF UNTIL 5 MINUTES AFTER OCCUPANT DETECTION, IT THEN REVERTS TO AUTO ON MODE.
2. MANUAL ON (VACANCY MODE): OCCUPANT MUST MANUALLY PRESS ON/OFF BUTTON TO ENERGIZE THE LOAD. LOAD REMAINS ENERGIZED UNTIL NO MOTION IS DETECTED FOR THE SELECTED TIME DELAY.
3. 30 SECOND RE-TRIGGER DELAY - IF SENSOR DETECTS MOTION DURING DELAY SENSOR SHALL RE-ENERGIZE LOAD.
   SENSOR SHALL ENERGIZE LOAD UPON DETECTION OF MOTION. LOAD IS DE-ENERGIZED ONCE SPACE IS VACANT AND THE ADJUSTABLE TIME DELAY ELAPSES.
5. MANUAL OVERRIDE SWITCH SHALL DE-ENERGIZE LOAD DURING OCCUPANCY FOR THE DURATION OF THE SET TIME DELAY. MANUAL ON SWITCH SHALL ENERGIZE LOAD FOR THE DURATION OF OCCUPANCY.
6. FOR DUAL SWITCH SENSORS DEFAULT IN AUTO-ON TO 50% OPERATION.

GENERAL NOTES (APPLIES TO ALL ABOVE):

A. PROVIDE POWER PACKS FOR ALL LOW VOLTAGE OCCUPANCY SENSORS.
B. PROVIDE POWER PACK TYPE AND QUANTITY RECOMMENED BY MANUFACTURER FOR DEVICES SCHEDULED.
C. PROVIDE ALL REQUIRED WIRING FOR A COMPLETE INSTALLATION. REFERENCE MANUFACTURER'S WIRING DIAGRAMS FOR ALL REQUIRED WIRING.
E. DUAL TECHNOLOGY SENSORS OCCUPANCY LOGIC SHALL BE SELECTED FOR DETECTION BY EITHER TECHNOLOGY AND SHOULD ONLY REQUIRE ONE FOR INITIAL AND MAINTAINED OCCUPANCY AND RETRIGGER WHEN OPTION IS AVAILABLE.
F. ALL WALL SWITCHES WITH MORE THAN TWO BUTTONS OR BUTTONS FOR DIMMING SHALL BE ENGRAVED WITH THE SCENE FUNCTION. TEXT SHALL BE SELECTED DURING THE SUBMITTAL PROCESS.
G. PROVIDE TWO DIGITAL WIRELESS CONFIGURATION TOOLS, WATTSTOPPER MODEL LMCT-100.

SWD ARCHITECTS
EST 1935
ARCHITECTURAL CORPORATION
MISSOURI CERTIFICATE
OF AUTHORITY NO. 000073

Y GARDENS APARTMENTS
1255 E. CHESTNUT
SPRINGFIELD, GREENE COUNTY, MISSOURI 65802

STARK WILSON DUNCAN ARCHITECTS INC
315 NICHOLS RD, STE 228 - KANSAS CITY, MO 64112 - T 816.531.1698 F 816.531.1978

SEAL
ENGINEER - CASEY JOHN STEINER
MO. LICENSE NO. PE-2009035182

ELECTRICAL SCHEDULES

ISSUE DATE:
02.04.2019

REVISIONS:

H&B ENGINEERS
HOSS & BROWN
11205 West 79th Street
Lenexa, Kansas 66214
(913) 362-9090 phone
mail@hb-be.com
H&B Project Number: 1820640

PROJECT NO.: 1803

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