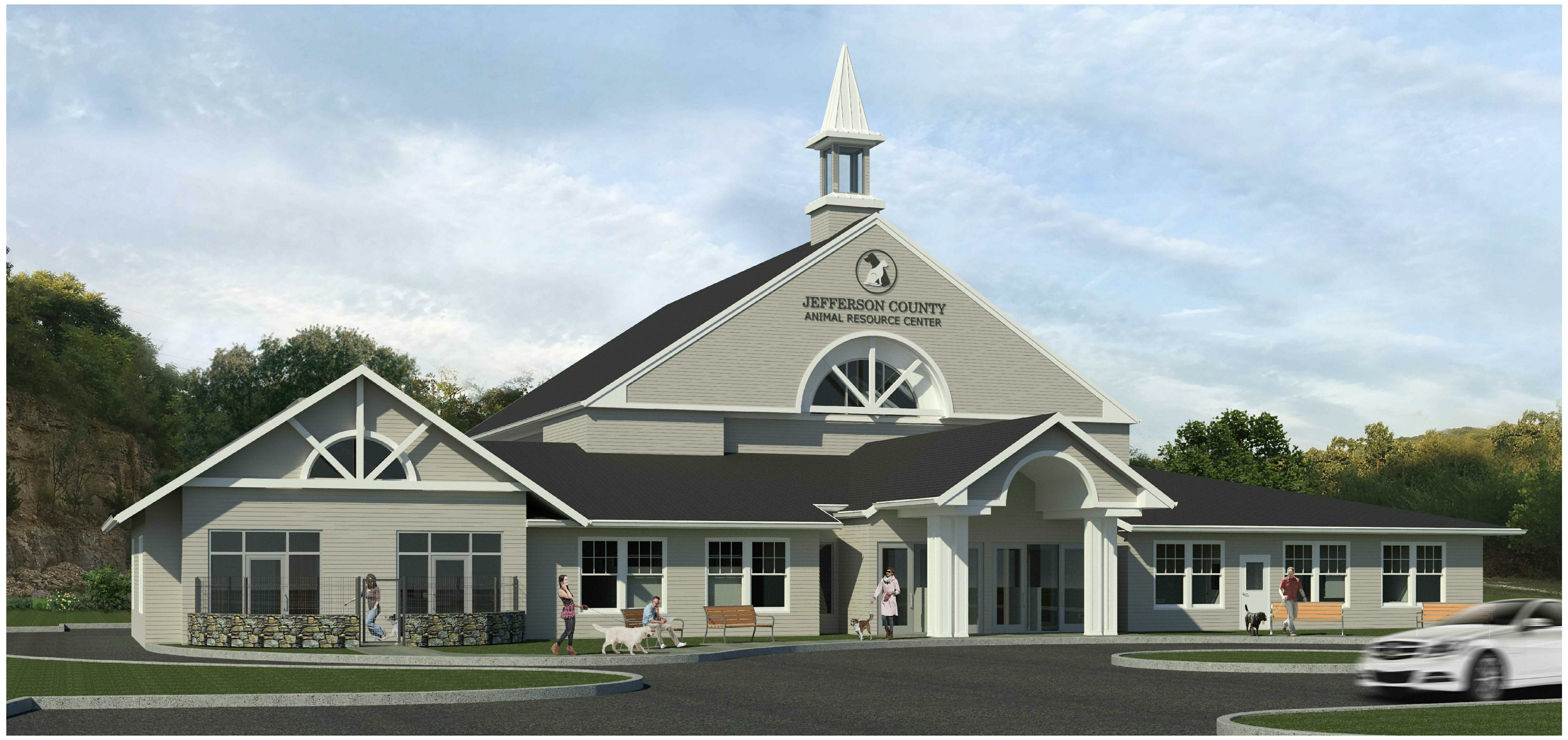
Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

PERMIT & BID SET **15 MAR 2019**



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MATERIALS

▤	ACOUSTIC TILE
▨	BATT INSULATION
▨	BRICK
▭	CEMENT BOARD
▭	CONCRETE
▩	CONCRETE MASONRY UNIT
▥	EARTH
▦	GRAVEL
▤	GYPSUM WALL BOARD
■	PLASTIC LAMINATE
▤	PLYWOOD
▦	RIGID INSULATION
▭	SEALANT
▭	WOOD BLOCKING
☒	WOOD FRAMING
▭	FINISH WOOD
■	CERAMIC TILE
▨	

SYMBOLS

1 A	GRID LINES
9 A5.02	DETAIL CUT & SHEET NUMBER
3ASL	PARTITION TYPE
OUTPATIENT RECEPTION AREA 2101	ROOM IDENTIFICATION
3 A3.02	EXTERIOR ELEVATION & SHEET NUMBER
3 A4.01	SECTION NUMBER & SHEET NUMBER
3	REVISION NUMBER
063 066 A7.01 064 065	INTERIOR ELEVATION & SHEET NUMBER
135B	DOOR NUMBER
⬡	WINDOW TYPES
⬭	EQUIPMENT
3 A4.01	WALL SECTION NUMBER & SHEET NUMBER
3 A4.01 — 3 A4.01	BUILDING SECTION NO. & SHEET NUMBER
DIM	CRITICAL HOLD DIMENSION FINISH TO FINISH

BUILDING CODE DATA

REFER TO G0.01 - BUILDING CODE INFORMATION

ABBREVIATIONS

A.B.	Anchor Bolt
ABV	Above
A.C.	Air Conditioning
A.C.T.	Acoustical Ceiling Tile
A.F.F.	Above Finish Floor
A.F.J.	Attach to Floor Joist
ALUM.	Aluminum
BLDG.	Building
BLKG.	Blocking
BOT.	Bottom
BYND.	Beyond
CL.	Center Line
CANT.	Cantilever
CARP.	Carpet
CHR.	Chrome
C.J.	Control Joint
CLG.	Ceiling
CLR.	Clear
C.M.U.	Concrete Masonry Unit
COL.	Column
COORD.	Coordinate
CONT.	Continue / Continous
DIA.	Diameter
DET.	Detail
DIM.	Dimension
DN.	Down
DR.	Door
DWG.	Drawing
D.F.	Drinking Fountain
E.	East
EA.	Each
E.J.	Expansion Joint
ELEC.	Electrical
ELEV.	Elevation
EQ.	Equal
EXIST.	Existing
EXP. JT.	Expansion Joint
EXT.	Exterior
F.D.	Floor Drain
F.E.C.	Fire Extinguisher Cabinet
F.H.C.	Fire Hose Cabinet
F.T.	Fire Retardant Treated
F.F.	Finished Floor
FIN.	Finished
FL.	Floor
G.W.B.	Gypsum Wall Board (Drywall)
H.P.	High Point
HGT.	Height
HORZ.	Horizontal
HM.	Hollow Metal
HT	Heavy Timber
H.V.A.C.	Heating Ventilation & Air Conditioning
I.D.	Interior Diameter
INSUL.	Insulation
INT.	Interior
J.C.	Janitor's Closet
JT.	Joint
K.D.	Kiln Dried
LAV.	Lavatory
L.P.	Low Point
LVR.	Louver
MRBL.	Marble
MAX	Maximum
MECH.	Mechanical
MFR.	Manufacturer
MIN.	Minimum
M.O.	Masonry Opening
MTL.	Metal
N.	North
NAT. FIN.	Natural Finish
N.I.C.	Not in Contract
N.T.S.	Not to Scale
OA.	Overall
O.C.	On Center
O.D.	Outside Diameter
OPG.	Opening
OPP.	Opposite
PL.	Plate
PAR.	Parallel
PERP.	Perpendicular
P. LAM.	Plastic Laminate
P.M.	Pressed Metal
PTD.	Painted
P.T.	Pressure Treated
PLYWD.	Plywood
Q.T.	Quarry Tile
R.	Radius
R.D.	Roof Drain
RE.	Regarding
REF.	Refer to
REINF.	Reinforced
REQ'D.	Required
RM.	Room
R.O.	Rough Opening
S	South
SEAL.	Sealant
SC	Solid Core
SCP.	Skim Coat Plaster
SECT.	Section
S.F.	Square Foot
SIM.	Similar
SPEC.	Specifications
S.S.	Stainless Steel
STL.	Steel
STR.	Structure
S.V.F.	Sheet Vinyl Flooring
T&G	Tounge & Groove
TEMP. GL.	Tempered Glass
THK.	Thick
T.O.C.	Top of Concrete
T.O.M.	Top of Masonry
T.O.P.	Top of Parapet
T.O.W.	Top of Wall
TYP.	Typical
U.O.N.	Unless Otherwise Noted
V.B.	Vapor Barrier
V.C.T.	Vinyl Composition tile
VERT.	Vertical
V.I.F.	Verify in Field
V.W.C.	Vinyl Wall Covering
W.	West
WD.	Wood
W/	With
W/O	With out
WC	Wainscott
WP	Water Proof
W. GL.	Wire Glass

GENERAL NOTES

1. All work shall be completed in strict accordance with all applicable codes, ordinances, regulations and any additional requirements so stated by any law, ordinance or regulation pertaining to construction within said limits of the authority (city, county, state or federal) having jurisdiction.
2. The Contractor shall verify and field check all dimensions and conditions prior to the start, fabrication and installation of the work. The Contractor shall review all drawings and specifications for any conditions that may affect the work and shall report to the County any discrepancies for clarification prior to the start of any work. Drawings shall not be scaled for dimensions.
3. The Contractor is responsible for coordination, supervision and layout of all work and for the completion of all installations, including but not limited to allowing adequate space for other structure and equipment (including HVAC), piping, wiring, etc.
4. The Contractor shall furnish a Progress Schedule to the County, as required by Division 1 Specifications,indicating projected completion dates for all major phases of the Work. The Contractor shall periodically update and advise the County of progress in relation to the said Schedule.
5. All materials, components, systems and finishes shall be installed, assembled, operated and/or applied in strict accordance with the Drawings, Specifications and with the manufacturer's printed specifications, recommendations and/or instructions.
6. The use of the word "provide" or "provided" in connection with any item specified as intended to mean shall be furnished, integrated and installed with all required sub-assemblies, accessories and manufacturer suggestions where so noted.
7. The Contractor shall do all cutting, fitting and patching of work that may be required to make all parts come together properly and fit to receive or to be received by work of others shown upon or reasonably implied by the Drawings and Notes, as specifed in Division 1 Specifications.
8. Where applicable, details and notes shown in any section apply to all similar sections unless otherwise noted.
9. Provide blocking and metal strap backing as indicated in drawings and /or Specifications.
10. Contractor shall patch/match existing or new work damaged during construction as specified in Division 1 Specifications.
11. All M/E/P/IT Drawings to be coordinated with Architectal, Civil, and Structural drawings.
12. Cover plates at electrical receptacles, diffusers and registers shall match finish color of adjacent wall or ceiling surface, unless otherwise indicated.
13. Provide fire stopping / fire safing at all new horizontal openings and/or new openings through fire resistant rated and smoke tight construction.
14. Wall dimensions are to center line of wall and/or structure unless otherwise indicated. Window and door dimensions are to centerline except at masonry openings, coordinate rough opening requirements with schedule information.
15. Contractor shall be responsible for coordinating all necessary holes or adjustments required for electrical interfacing. All electrical work shall conform to the latest edition of the Electrical Code and local ordinances.
16. Provide Submittals in accordance with Division 1 Specification requirements.

DRAWING LIST

GENERAL

G0.00	COVER SHEET
G0.01	BUILDING CODE INFORMATION
G0.02	EGRESS PLANS
G0.03	FIRE WALL AREA PLAN
G0.04	WORK AREA PLANS
G0.05	DEDUCT-ALT AREA PLAN

CIVIL

C1.0	CIVIL TITLE SLEET
C2.0	TOPOGRAPHIC & EXIST. CONDITIONS SURVEY
C3.0	DEMOLITION PLAN
C4.0	SITE PLAN
C4.1	GRADING PLAN
C5.0	ENLARGED GRADING PLAN & CONSTR. DETAILS

STRUCTURAL

S1.0	STRUCTURAL GENERAL NOTES
S2.1	STANDARD DETAILS
S2.2	STANDARD DETAILS
S3.0	FOUNDATION DEMOLITION PLAN
S3.1	FOUNDATION PLAN
S3.2	SLAB ON GRADE PLAN
S3.3	SECOND FLOOR FRAMING PLAN
S3.4	ROOF DEMOLITION PLAN
S3.5	ROOF FRAMING PLAN
S4.1	SECTIONS AND DETAILS
S4.2	SECTIONS AND DETIALS
S4.3	SECTIONS AND DETAILS
S5.0	SHEAR WALL ELEVATIONS

EXISTING

AEX0.01	ARCHITECTURAL FOUNDATION PLAN - EXISTING
AEX0.02	FLOOR PLANS - EXISTING

DEMOLITION

AD1.00	FLOOR PLANS - DEMOLITION

ARCHITECTURE

A0.01	ARCHITECTURAL SITE PLAN - NEW
A0.02	ARCHITECTURAL FOUNDATION PLAN - NEW
A1.01	FLOOR PLANS - DIMENSIONS
A1.02	FLOOR PLANS - PARTITIONS
A1.03	FLOOR PLANS - MILLWORK / FURNISHINGS
A1.04	FLOOR PLANS - EQUIPMENT
A1.05	FLOOR PLANS - FINISHES
A1.06	FLOOR PLANS - REFLECTED CEILING
A1.07	ROOF PLAN
A2.00	BUILDING ELEVATIONS
A2.01	AXONOMETRICS
A3.00	BUILDING SECTIONS
A4.00	WALL SECTIONS
A4.01	WALL SECTIONS
A4.02	DETAILS - EXTERIOR & INTERIOR BUILDING
A5.00	VERTICAL CIRCULATION
A6.00	INTERIOR ELEVATIONS
A6.01	INTERIOR ELEVATIONS
A6.02	INTERIOR ELEVATIONS
A6.03	INTERIOR ELEVATIONS
A6.04	INTERIOR ELEVATIONS
A6.05	INTERIOR ELEVATIONS
A6.06	INTERIOR ELEVATIONS
A6.07	INTERIOR ELEVATIONS
A7.00	PARTITION TYPES & INTERIOR DETAILS
A7.01	RUN DETAILS
A7.02	INTERIOR DETAILS - CAGES, MILLWORK, & SPECIALTY
A7.03	INTERIOR DETAILS - MILLWORK & SPECIALTY
A8.00	DOOR SCHEDULE AND DETAILS
A8.01	WINDOW SCHEDULE AND DETAILS
A9.01	FINISH SCHEDULE, LEGEND

MECHANICAL

M1.00	MECHANICAL SCOPE OF WORK & SYMBOLS
M1.01	MECHANICAL SCHEDULES & DETAILS
M2.01	FIRST FLOOR MECHANIAL PLAN
M2.02	SECOND FLOOR MECHANICAL PLAN
M2.03	ROOF MECHANICAL & EXHAUST AIR PLAN
M3.01	FIRST FLOOR EXHAUST PLAN

ELECTRICAL

E0	ELECTRICAL SPECIFICATIONS
E1.1	ELECTRICAL POWER PLAN - 1ST FLOOR
E1.2	ELECTRICAL POWER PLAN - 2ND FLOOR
E2.1	ELECTRICAL LIGHTING PLAN - 1ST FLOOR
E2.2	ELECTRICAL LIGHTING PLAN - 2ND FLOOR
E3.1	ELECTRICAL HVAC PLAN - 1ST FLOOR
E3.2	ELECTRICAL HVAC PLAN - 2ND FLOOR
E4	ELECTRICAL PANELBOARD SCHEDULES

PLUMBING

P-1	PLUMBING DRAWING 1
P-2	PLUMBING DRAWING 2
P-3	PLUMBING DRAWING 3
P-4	PLUMBING DRAWING 4

REVISION		
NO..	DESCRIPTION	DATE

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Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO
County Project # PW19B035BLD

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	15 MAR 19
PROJECT NO:	1723

COVER SHEET

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

G0.00

ZONING AND CODE REVIEW

PROJECT

JEFFERSON COUNTY ANIMAL CARE FACILITY, 4848 HWY 30 SCOTSDALE, MO 63051
LEVEL 3 ALTERATION OF AN EXISTING CHURCH TO A NEW ANIMAL HOSPITAL + RESOURCE FACILITY INCLUDING ANIMAL HOUSING AND A MEDICAL AREA. SITE DEVELOPMENT INCLUDES MODIFICATION OF EXISTING SITE WORK AND EXISTING PARKING TO REMAIN.

APPLICABLE CODES:

2015 INTERNATIONAL BUILDING CODE (2015 IBC)
2015 INTERNATIONAL ENERGY CONSERVATION CODE, (2015 IECC)
2013 ASHRAE 90.1
2015 INTERNATIONAL EXISTING BUILDING CODE (2015 IEBC), INCLUDING APPENDIX A
2015 INTERNATIONAL MECHANICAL CODE (2015 IMC)
2015 INTERNATIONAL FIRE CODE WITH SC MODIFICATIONS (2015 IFC)
2015 INTERNATIONAL PLUMBING CODE (20125 IPC)
2014 NATIONAL ELECTRIC CODE & JEFFERSON COUNTY ELECTRICAL CODE 2017
2015 INTERNATIONAL ELECTRIC CODE (IEC 2015)
2015 INTERNATIONAL FUEL GAS CODE

DESCRIPTION OF WORK:

THE EXISTING BUILDING IS A 10,033 SF TWO STORY, NON-SPRINKLERED BUILDING. THE CURRENT USE GROUP IS A4 (ASSEMBLY –WORSHIP). THE WORK AREA FOR LEVEL 3 ALTERATIONS ENCOMPASSES THE ENTIRE BUILDING. THE PROJECT INCLUDES AN INCREASE IN USABLE AREA OF APPROXIMATELY10,461 SF. THIS AREA INCREASE ON THE FIRST FLOOR IS APPROXIMATELY 6,457 SF AND ON THE SECOND FLOOR AN AREA OF APPROXIMATELY 4,004 SF. ON COMPLETION THE TOTAL USABLE AREA WILL BE APPROXIMATELY 20,494 SF. THE BUILDING DOES NOT HAVE A BASEMENT. THE SECOND FLOOR CURRENTLY CONTAINS TWO UTILITY ROOMS WITH THE REMAINDER BEING OPEN TO THE FIRST FLOOR BELOW. THE WORK PROPOSES BUILDING A COMPLETE SECOND FLOOR OVER THE CURRENT SANCTUARY FOR STORAGE AND ANIMAL HOUSING. A NEW ELEVATOR AND STAIR WILL BE PROVIDED CONNECTING THE FIRST AND SECOND FLOORS. THERE IS NO INCREASE IN THE BUILDING HEIGHT AS THE CURRENT ROOFLINE WILL BE MAINTAINED AT THE CURRENT ELEVATION. FLOORS AND NEW ROOFS WILL BE WOOD FRAME CONSTRUCTION TO MATCH THE EXISTING. NEW PARTITION WALLS WILL BE EITHER WOOD OR LIGHT GAUGE METAL STUDS AS IDENTIFIED ON THE DRAWINGS. THE REMODELED BUILDING WILL BE PROVIDED WITH A FULLY AUTOMATIC SPRINKLER AND FIRE PROTECTION SYSTEM. THE WORK AREA WILL CHANGE TO A TYPE 'B' BUSINESS OCCUPANCY WITH A CHANGE OF USE FROM ASSEMBLY-WORSHIP TO ANIMAL CARE FACILITY.

GENERAL:

SCOTSDALE IS LOCATED IN EAST MISSOURI. IT IS AN INCORPORATED COMMUNITY AND PART OF JEFFERSON COUNTY.

FLOOD:

FLOOD MAPS FOR THIS AREA INDICATE A MINOR RISK OF FLOODING.

HISTORIC:

NA.

ZONING:

NOT APPLICABLE – COUNTY USE

BUILDING CODE:

CHAPTER 3 USE & OCCUPANCIES:

BUSINESS B: THE OVERALL OCCUPANCY OF OUR FACILITY IS ANIMAL HOSPITAL AND "KENNEL" USES. THIS WOULD INCLUDE THE ENTIRE 1^{ST} FLOOR, EXCEPT THE AGGREGATE AREA OF THE MULTI-PURPOSE ROOM AND INDICATED "STORAGE" ROOMS.

ASSEMBLY A-3: 632 SF. MULTI-PURPOSE ROOM 179. THIS ROOM IS PART OF THE "B" OCCUPANCY AND HAS AN OCCUPANCY LOAD OF 42 PERSONS, WHICH DOES EXCEED THE MAXIMUM ALLOWABLE OF 50. A 1 HOUR FIRE SEPARATION IN ACCORDANCE IBC 2015 SECTION 508.4 AND TABLE 508.4 IS NOT REQUIRED.
THE CURRENT WAITING ROOMS 102 AND 103, DO NOT EXCEED 750 SF. REFER TO IBC-2015 303.1.2.2.

STORAGE S-2: THE (5) STORAGE ROOMS ARE EACH CONSIDERED A PART OF THE AGGREGATE MIXED USES OF A-3, S-2 AND U THAT REQUIRE A 1 HOUR FIRE SEPARATION IN ACCORDANCE IBC 2015 SECTION 508.4 AND TABLE 508.4.

CHAPTER 4 SPECIAL REQUIREMENTS BASED ON USE AND OCCUPANCY:

IBC 2015 SECTION 406 CLASSIFIES THE ANIMAL CONTROL VAN GARAGE, ROOM 121 AS A "PRIVATE GARAGE" AND OTHER THAN THE 1 HOUR FIRE SEPARATION AND UL 325 LISTED AUTOMATIC GARAGE DOOR OPERATORS, THERE ARE NO SPECIAL REQUIREMENTS IN SECTION 406 THAT APPLY.

CHAPTER 5 & 6 HEIGHT & AREA AND CONSTRUCTION TYPES:

BUILDING AREA – APPROXIMATELY 20,494 SF. (CALCULATED AS TOTAL "ROOFED" AND ENCLOSED AREA, AS PER THE IBC 2015 DEFINITION.) CONSTRUCTION TYPE 'V'B, FROM TABLE 506.2,

CONSTRUCTION TYPE / USE GROUP	ALLOWABLE HT (TABLE 504-3)	PROPOSED HT	ALLOWABLE STORIES	PROPOSED STORIES
TYPE 'V' B	60 FT	40 FT (EXISTING)	3 STORIES	EXISTING 2 STORIES

NON-SPRINKLERED – MAXIMUM ALLOWABLE AREA – 9,000 SF
SPRINKLERED – MAXIMUM ALLOWABLE AREA – 27,000 SF

	COMPONENT	FIRE RATING
1	STRUCTURAL FRAME INCLUING COLUMNS, GRIDERS AND TRUSSES	0 HR
2	BEARING WALLS – EXTERIOR AND INTERIOR	0 HR
3	NON-BEARING WALLS AND PARTITIONS – EXTERIOR	0 HR
4	NON-BEARING WALLS AND PARTITIONS – INTERIOR	0 HR
5	FLOOR CONSTRUCTION – INCLUDING BEAMS AND JOISTS	0 HR
6	ROOF CONSTRUCTION – INCLUDING SUPPORTING BEAMS AND JOISTS	0 HR

THE "FRONTAGE" AREA FOR THE BUILDING ALONG A PUBLIC WAY IS GREATER THAN 25% OF THE OVERALL BUILDING PERIMETER. THE CURRENT OPEN SPACE ALONG THIS FRONTAGE IS TO BE DEDICATED TO AN APPROVED FIRE LANE. THE MINIMUM DISTANCE ALONG THIS FRONTAGE FROM THE PROPERTY LINE TO THE BUILDING FRONTAGE IS 20'-0". THE BUILDING WILL INCREASE IN LENGTH BY APPROXIMATELY 46'-0".THE SITE IS WOODED AND SHALL REQUIRE CLEAR CUT OF APPROXIMATELY 30 FEET AND GRADE MODIFICATIONS FOR FIRE TRUCK ACCESS ON 4 SIDES OF THE BUILDING.
BUILDING HEIGHT = 40-0" +/- (CALCULATED AS THE DIMENSION FROM THE GRADE PLANE UP TO THE AVERAGE HEIGHT OF THE HIGHEST ROOF.) EXTERIOR WALLS ARE UNRATED IN ACCORDANCE WITH IBC 2015, TABLE 602 BECAUSE THE DISTANCE BETWEEN THE BUILDING AND PROPERTY LINE EXCEEDS 30 FEET.

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES

FIRE SEPARATION WITH 1 HOUR RATED FIRE BARRIERS, AS REQUIRED BY IBC 2015 SECTION 7.07, SHALL BE PROVIDED BETWEEN THE LAUNDRY AND LAUNDRY STORAGE ROOMS 170 AND 175 AND THE INTERNAL EXIT STAIR S-2 AND EGRESS CORRIDOR ON THE FIRST FLOOR TO THE EXTERIOR OF THE BUILDING. DOOR AND FRAME AT THESE ROOMS SHALL BE RATED ¾ HOUR. REFER TO SECTION 7.07 FOR DETAILED DOOR GLAZING REQUIREMENTS.

CHAPTER 8 INTERIOR FINISHES

ALL INTERIOR FINISHES SHALL COMPLY WITH THE PROVISIONS OF THIS CHAPTER FOR CLASS B AND C IN A SPRINKLERED BUILDING.

USE GROUP	EXIT ENCLOSURE & EXIT PASSAGEWAYS	CORRIDORS	ROOMS & ENCLOSED SPACES
B	CLASS B (MIN. FLAME SPREAD INDEX	CLASS C (MIN. FLAME SPREAD	CLASS C FLAME SPREAD INDEX

804.2: ANY CARPET SHALL BE OF CLASS I OR CLASS II MATERIALS IN ACCORDANCE WITH NFPA 253. NO CARPET IS SPECIFIED UNDER THIS CONTRACT.
806.7: INTERIOR TRIM IS ASTM E 84, CLASS C AND DOES NOT EXCEED 10% OF THE AREA OF THE ATTACHED WALL/CEILING.
806.8: WALL BASE COMPLIES WITH REQUIREMENTS.
808.1: ACOUSTICAL CEILING SYSTEMS COMPLY WITH 808.1 INSTALLATION PROVISIONS.

CHAPTER 9 FIRE PROTECTION SYSTEMS

GENERALLY PROVIDE NFPA 13 SPRINKLERS IN ALL AREAS OF THE BUILDING. TYPICAL FIRE EXTINGUISHERS AND CABINETS ARE REQUIRED. SEE IBC 2015 SECTION 906.3(1) FOR SIZE AND DISTRIBUTION REQUIREMENTS. MAXIMUM DISTANCE BETWEEN FIRE EXTINGUISHERS IS 75 FEET WITH A MAXIMUM FLOOR AREA OF 11,250 SF. FIRE (AND SMOKE) ALARM AND DETECTION SYSTEM REQUIREMENTS ARE TO BE PROVIDED. A FIRE COMMAND CENTER IS REQUIRED FOR THIS BUILDING AND IS TO BE LOCATED ALONG THE INSIDE CORRIDOR THAT EXITS TO THE ROAD FRONTAGE AND FIRE ACCESS LANE FOR THE BUILDING. THE FIRE DEPARTMENT CONNECTION SHALL BE VISIBLE FROM THE STREET OR NEAREST POINT OF FIRE DEPARTMENT VEHICLE ACCESS OR AS APPROVED BY THE FIRE CHIEF, IN A LOCATION THAT DOES NOT OBSTRUCT ACCESS TO THE BUILDING BY OTHER FIRE APPARATUS. IMMEDIATE ACCESS TO THE CONNECTION NEEDS TO BE MAINTAINED WITH A CLEAR SPACE OF 36" X 36" X 78" HIGH.

DESCRIPTION	ALLOWABLE/REQUIRED
FIRE SPRINKLER SYSTEM (903.2) GROUP B	REQUIRED
FIRE EXTINGUISHERS (906.1,NFPA 10)	REQUIRED AND PROVIDED PER 906.1 AND LOCAL FIRE MARSHALL
FIRE ALARM & SMOKE DETECTION SYSTEM (TABLE 907.2, NFPA 72)	SEE ELECTRICAL DRAWINGS FOR PROVISIONS
SMOKE CONTROL SYSTEM S (909.0)	NOT REQUIRED
SMOKE AND HEAT VENTS (910.0)	NOT REQUIRED

NOTE: REFER TO PLUMBING, MECHANICAL & ELECTRICAL DRAWINGS FOR SYSTEM DESCRIPTIONS & NARRATIVES.
TABLE 906.3.1 (PORTABLE) FIRE EXTINGUISHERS FOR CLASS A FIRE HAZARDS:
COMPLIES WITH MAX FLOOR AREA FOR LIGHT (LOW) HAZARD OCCUPANCY - 11,250 SF AND MAX TRAVEL DISTANCE TO EXTINGUISHER - 75F
A SPRINKLER ROOM SHALL BE ADDED AT GRADE ON AN EXTERIOR WALL OR WITHIN 10 FEET OF THE EXTERIOR WALL WHERE THE WATER SERVICE ENTERS THE BUILDING AND EASILY ACCESSIBLE BY FIRE DEPARTMENT PERSONNEL. VALVES AND CONNECTIONS TYPICALLY REQUIRE 6-8 LINEAR FEET OF EXTERIOR OR PERPENDICULAR WALL AND AT LEAST A 36" CLEAR WORKING AISLE IN FRONT OF THE VALVES.

CHAPTER 10 – MEANS OF EGRESS

ALL CORRIDORS CAN BE NON-RATED EXCEPT THE CORRIDORS ATTACHED TO EGRESS STAIR S-2 WHICH ARE TO BE OF 0NE-HOUR RATED CONSTRUCTION TO THE POINT OF EGRESS FROM THE BUILDING.

OCCUPANT LOADS – MAX FLOOR AREA PER PERSON:

B	100 SF. GROSS / PERSON.
S-2	300 SF. GROSS / PERSON.

DESCRIPTION	ALLOWABLE/REQUIRED	ALLOWABLE/PROVIDED
GENERAL MEANS OF EGRESS – IBC 1103.2	7'-6" CEILING HEIGHT MIN. 6'-8" ALLOWED FOR PROTUDING OBJECTS	COMPLIES
OCCUPANCY LOADS – IBC TABLE 1004.1.1	B=100 GROSS SF S-2 = 300 GROSS SF	COMPLIES SEE EGRESS PLANS
ACCESSIBLE MEANS OF EGRESS – IBC 1009	MINIMUM 2 ACCESSIBLE MEANS OF EGRESS (NEW BUILDINGS)	COMPLIES ACCESSIBLE EXITS PROVIDED
NUMBER OF EXITS – IBC TABLE 1006.2.1	AS PROVIDED – SEE FLOOR PLANS	COMPLIES SEE EGRESS PLANS
MAX. COMMON PATH OF EGRESS TRAVEL – IBC TABLE 1006.2.1	100 FEET	COMPLIES
EXIT SEPARATION – IBC 1017.1	NOT LESS THAN 1/3 THELENGTHOF THE MAX. OVERALL DIAGONAL OF THE BUILDING	COMPLIES
EXIT ACCESS – IBC TABLE 1017.2		COMPLIES
CORRIDORS – IBC 1020.1	LESS OR MORE THAN 30 OCCUPANTS – NO FIRE RESISTANCE RATING	COMPLIES
DEAD END CORRIDORS – IBX 1020.4	LESS THAN 50 FEET	COMPLIES

NOTE: ABOVE GROSS SF. MEASURED FROM INSIDE FACE OF EXTERIOR WALLS AND CENTERLINE OF PARTITIONS OF BORDERING ROOMS.

1004.5 OUTDOOR AREAS. YARDS, PATIOS, COURTS AND SIMILAR OUTDOOR AREAS ACCESSIBLE TO AND USABLE BY THE BUILDING OCCUPANTS SHALL BE PROVIDED WITH *MEANS OF EGRESS* AS REQUIRED BY THIS CHAPTER. THE *OCCUPANT LOAD* OF SUCH OUTDOOR AREAS SHALL BE ASSIGNED BY THE *BUILDING OFFICIAL* IN ACCORDANCE WITH THE ANTICIPATED USE. WHERE OUTDOOR AREAS ARE TO BE USED BY PERSONS IN ADDITION TO THE OCCUPANTS OF THE BUILDING, AND THE PATH OF EGRESS TRAVEL FROM THE OUTDOOR AREAS PASSES THROUGH THE BUILDING, *MEANS OF EGRESS* REQUIREMENTS FOR THE BUILDING SHALL BE BASED ON THE SUM OF THE *OCCUPANT LOADS* OF THE BUILDING PLUS THE OUTDOOR AREAS.

EXCEPTIONS:
1. OUTDOOR AREAS USED EXCLUSIVELY FOR SERVICE OF THE BUILDING NEED ONLY HAVE ONE *MEANS OF EGRESS*.

CHAPTER 12 – INTERIOR ENVIRONMENT

THE PROVISIONS IDENTIFIED IN THIS CHAPTER RELATIVE TO THE BUILDING TYPE FOR TEMPERATURE CONTROL, VENTILATION, LIGHTING, YARDS AND COURTS, SOUND TRANSMISSION, ROOM DIMENSIONS, SURROUNDING MATERIALS AND RODENT-PROOFING ASSOCIATED WITH THE INTERIOR SPACES OF THE BUILDING SHALL BE MET.
PROPOSED BUILDING IEBC 2015 LEVEL III ALTERATIONS ARE IN COMPLIANCE; REFER TO DIMENSION PLAN, PARTITION TYPES, & MECHANICAL DRAWINGS

ACCESSIBILITY

GENERAL: ANSI A117.1-2015, SC ACCESSIBILITY ACT. THE BUILDING AND FACILITY SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH THIS CODE AND ANSI A117.1 (CURRENT EDITION).

MISSOURI AAB REQUIREMENTS: THE BUILDING IS IN COMPLIANCE WITH ANSI A117.1 -2009, SC ACCESSIBILITY AND IBC 2015, CHAPTER 11 - ACCESSIBILITY,
JEFFERSON COUNTY AMERICAN WITH DISABILITY ACT / SECTION 504..

ENERGY CONSERVATION

GENERAL: IECC 2015.

REVISION		
NO..	DESCRIPTION	DATE

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Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO
County Project # PW19B035BLD

BUILDING CODE INFORMATION

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	15 MAR 19
PROJECT NO:	1723

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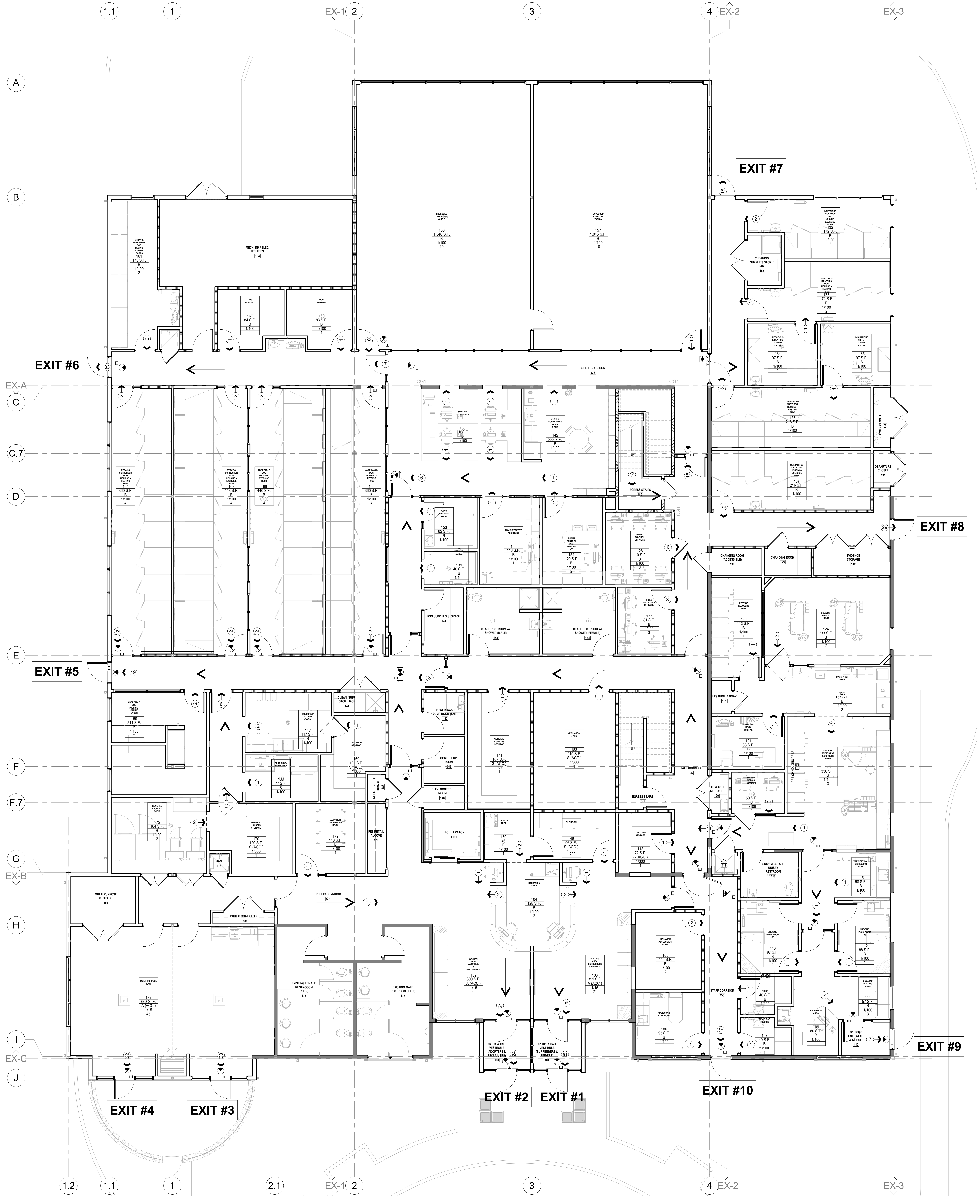
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I
EX-C
J
STAFF CORRIDOR
PUBLIC CORRIDOR
EGRESS STAIRS
MECH. RM / ELEC/ UTILITIES
H.C. ELEVATOR
MULTI-PURPOSE ROOM
EXISTING FEMALE RESTROOM (N.I.C.)
EXISTING MALE RESTROOM (N.I.C.)
ENTRY & EXIT VESTIBULE (ADOPTERS & RECLAIMERS)
ENTRY & EXIT VESTIBULE (SURRENDERS & FINDERS)
PUBLIC COAT CLOSET
MULTI PURPOSE STORAGE

① FIRST FLOOR PLAN - EGRESS
3/16" = 1'-0"

OCCUPANCY LOAD CALCULATION CRITERIA:

1. ALL PRIMARY BUSINESS USE ROOM, SPACE, AND AREA OCCUPANCY LOADS ARE CALCULATED AT 100 GROSS SF. PER OCCUPANT AS PER STATE AND IBC REQUIREMENTS.
2. ANY BUSINESS ACCESSORY ASSEMBLY MULTI-PURPOSE ROOM OCCUPANCY LOAD IS CALCULATED AS UNCONCENTRATED TABLE AND CHAIRS AS PER STATE AND IBC REQUIREMENTS.
3. ANY BUSINESS ACCESSORY ASSEMBLY A-3 WAITING OR OTHER A-3 USE OCCUPANCY LOAD IS CALCULATED AS THE TOTAL NUMBER OF FIXED SEATS OR AT 15 NET SF. AS PER STATE AND IBC REQUIREMENTS.
4. ANY EXTERIOR EXERCISE YARD OR PLAY AREA OCCUPANCY LOAD IS TO BE SET, (POSTED), BY THE BUILDING OFFICIAL.

OCCUPANCY TAG LEGEND

ROOM NAME	(ROOM NAME)
ROOM NO.	(ROOM NUMBER)
SQ. FT.	(GROSS SQUARE FOOTAGE OF ROOM OR AREA = GSF.)
OCC. TYPE	(OCCUPANCY TYPE = USE)
OCC. CALC	(OCCUPANCY CALCULATION = GROSS SF. PER OCCUPANT)
OCC. TOTAL	(OCCUPANCY TOTAL = CALCULATED NUMBER OF OCCUPANTS IN ROOM OR AREA)

NOTE:
REFER TO DIMENSION FLOOR PLAN FOR ADDITIONAL RATED SEPARATION PARTITION LOCATIONS

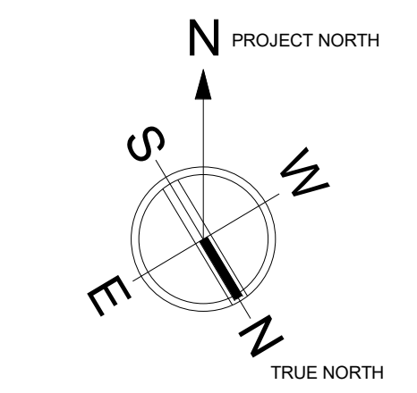
③ EGRESS PLAN NOTES
1/4" = 1'-0"

EXIT CAPACITY CHART

EXIT CAPACITY			
MAX. CAPACITY WIDTH = 0.2"/OCCUPANT			
EXIT #	**DOOR WIDTH**	**DOOR CAPACITY (MAX.)**	**ACTUAL USE**
1	33"	165	25
2	33"	165	24
3	33"	165	23
4	33"	165	22
5	33"	165	19
6	33"	165	33
7	33"	165	18
8	33"	165	29
9	33"	165	7
10	33"	165	17
	TOTAL	1,650	217

EGRESS PLAN LEGEND

←	PRIMARY MEANS OF EGRESS DIRECTION TOWARD EXIT
❮–(#)	OCCUPANT LOAD FROM ROOM OR CUMULATIVE AREA
☐	NON-RATED PARTITION
▥	1-HR RATED PARTITION
▨	EXISTING WALL TO BE RATED
■	WALL/ELEMENT NOT IN CONTRACT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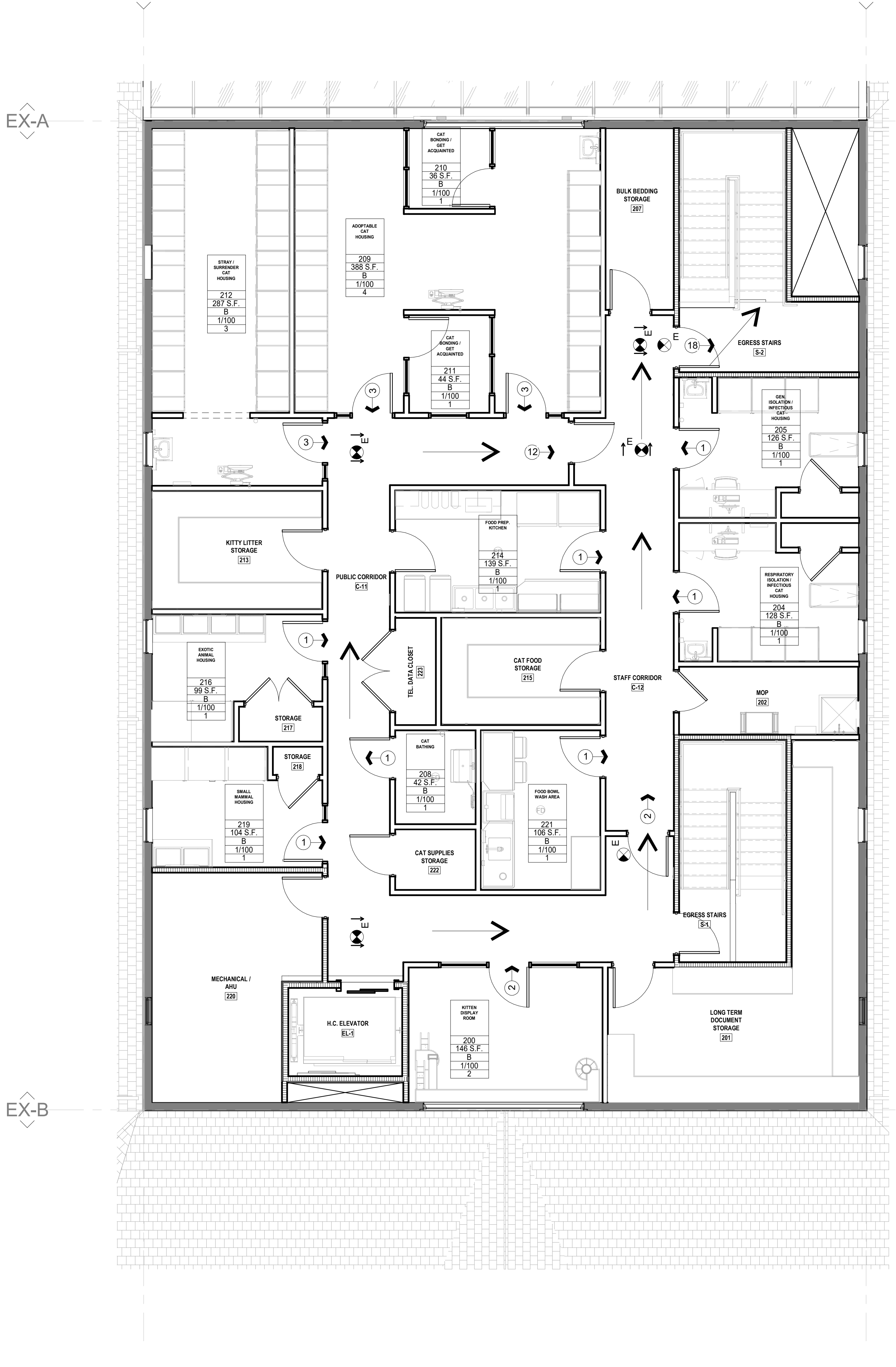
PROJECT NORTH
TRUE NORTH


EX-1
EX-2
EX-A
EX-B
STAFF CORRIDOR
PUBLIC CORRIDOR
EGRESS STAIRS
H.C. ELEVATOR
MECHANICAL / AHU
BULK BEDDING STORAGE
KITTY LITTER STORAGE
CAT FOOD STORAGE
CAT SUPPLIES STORAGE
LONG TERM DOCUMENT STORAGE
MOP

② SECOND FLOOR PLAN - EGRESS
3/16" = 1'-0"

REVISION		
NO..	**DESCRIPTION**	**DATE**

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County Project # PW19B035BLD

EGRESS PLANS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY:	Author
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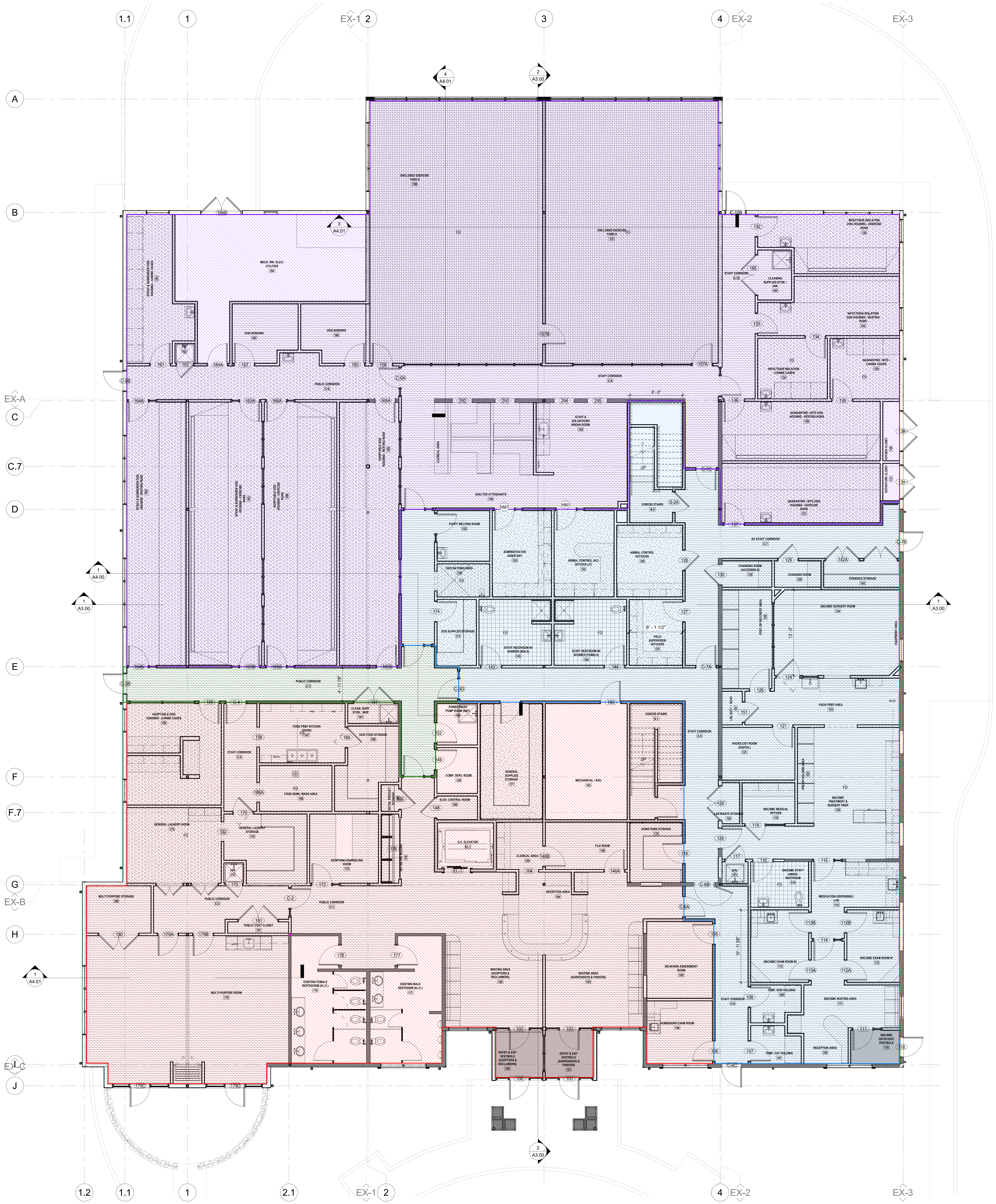
PROJECT NO:	1723

G0.02

FIRE SEPERATION AREAS

🟥	AREA #1	4,861 SF
🟩	AREA #2	336 SF
🟦	AREA #3	3,997 SF
🟪	AREA #4	7,038 SF
🟧	AREA #5	3,850 SF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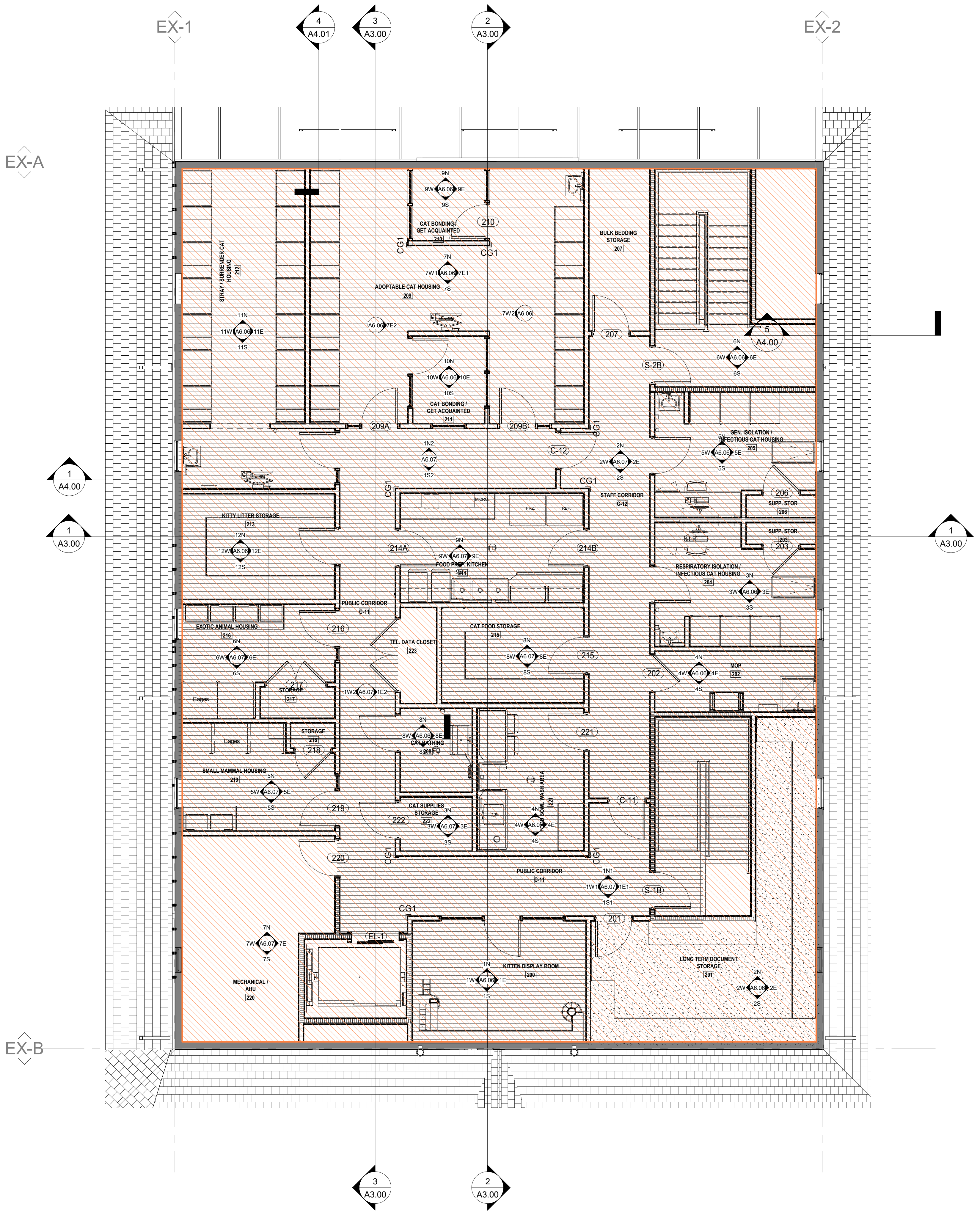
ENCLOSED EXERCISE YARDS
PUBLIC CORRIDOR
STAFF CORRIDOR
MULTI-PURPOSE ROOM
WAITING AREA
ENTRY & EXIT VESTIBULE

① 01 - FIRST FLOOR - EVERYTHING ON - FIRE AREAS
3/16" = 1'-0"


EX-1
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A4.00

② 02 - SECOND FLOOR - EVERYTHING ON - FIRE AREAS
3/16" = 1'-0"

REVISION		
NO..	DESCRIPTION	DATE

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County Project # PW19B035BLD

FIRE WALL AREA PLAN

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: Author
CHECKED BY: Checker
SCALE: As indicated
DATE: 15 MAR 19
PROJECT NO: 1723

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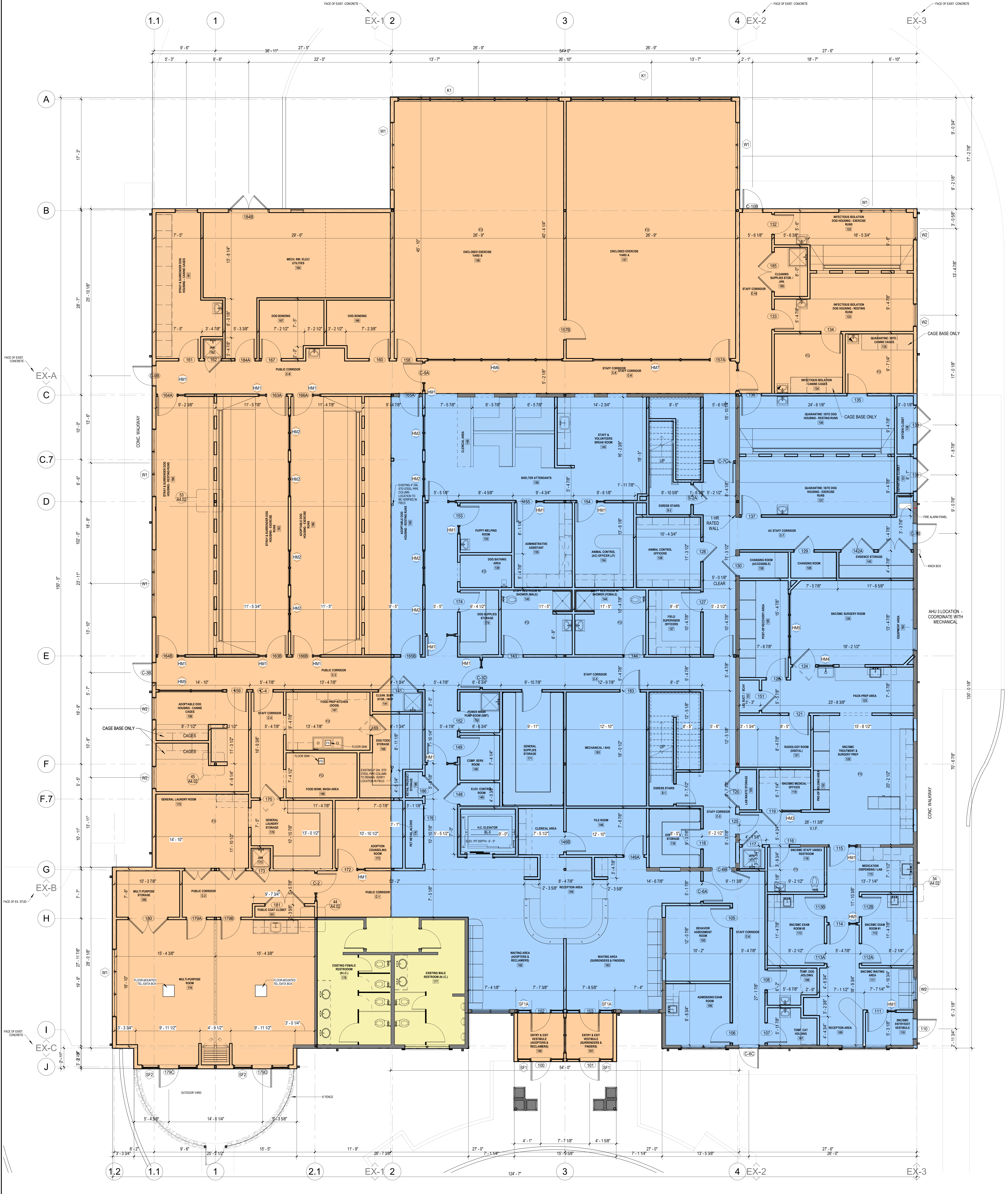
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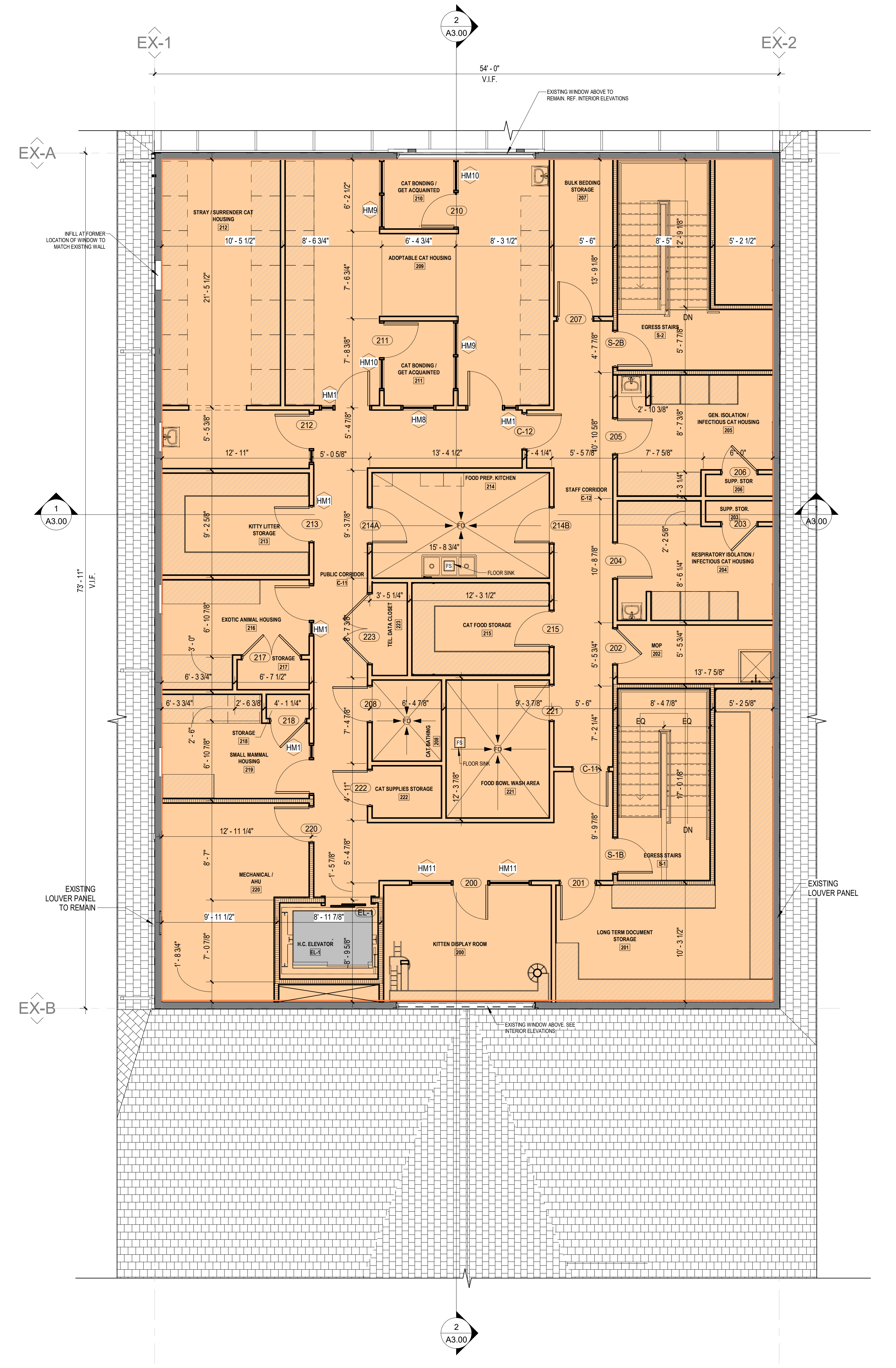
ENCLOSED EXERCISE YARD B
ENCLOSED EXERCISE YARD A
MECH. RM / ELEC/ UTILITIES
INFECTIOUS ISOLATION DOG HOUSING - EXERCISE RUNS
INFECTIOUS ISOLATION DOG HOUSING - RESTING RUNS
QUARANTINE / BITE CANINE CAGES
INFECTIOUS ISOLATION CANINE CAGES
QUARANTINE / BITE DOG HOUSING - RESTING RUNS
QUARANTINE / BITE DOG HOUSING - EXERCISE RUNS
CAGE BASE ONLY
STRAY & SURRENDER DOG HOUSING - EXERCISE RUNS
ADOPTABLE DOG HOUSING - RESTING RUNS
SHELTER ATTENDANTS
STAFF & VOLUNTEERS BREAK ROOM
ADMINISTRATIVE ASSISTANT
ANIMAL CONTROL OFFICERS
EGRESS STAIRS
1 HR RATED WALL
SNC/SMC SURGERY ROOM
RADIOLOGY ROOM (DIGITAL)
PACK PREP AREA
MECHANICAL / AHU
GENERAL SUPPLIES STORAGE
FILE ROOM
CLERICAL AREA
H.C. ELEVATOR
WAITING AREA (ADOPTERS & RECLAIMERS)
WAITING AREA (SURRENDERS & FINDERS)
EXISTING FEMALE RESTROOM (N.I.C.)
EXISTING MALE RESTROOM (N.I.C.)
MULTI-PURPOSE ROOM
MULTI-PURPOSE STORAGE
ADOPTION COUNSELING ROOM
GENERAL LAUNDRY ROOM
FOOD PREP KITCHEN (DOGS)
FOOD BOWL WASH AREA
ADOPTABLE DOG HOUSING - CANINE CAGES
ENTRY & EXIT VESTIBULE (ADOPTERS & RECLAIMERS)
ENTRY & EXIT VESTIBULE (SURRENDERS & FINDERS)
RECEPTION AREA
ADMISSIONS EXAM ROOM
BEHAVIOR ASSESSMENT ROOM
OUTDOOR YARD
CONC. WALKWAY
AHU 3 LOCATION - COORDINATE WITH MECHANICAL
8' FENCE

1 FIRST FLOOR PLAN - WORK AREA
3/16" = 1'-0"

WORK AREA LEGEND

TOTAL BASE BID PROJECT AREA: 19,939 SF

🟨	EXISTING TO REMAIN (N.I.C.):	476 SF
🟦	RENOVATION	7,866 SF
🟧	NEW CONSTRUCTION	12,073 SF


EX-1
EX-2
EX-A
EX-B
54'-0" V.I.F.
EXISTING WINDOW ABOVE TO REMAIN. REF. INTERIOR ELEVATIONS
INFILL AT FORMER LOCATION OF WINDOW TO MATCH EXISTING WALL
STRAY / SURRENDER CAT HOUSING
CAT BONDING / GET ACQUAINTED
ADOPTABLE CAT HOUSING
BULK BEDDING STORAGE
EGRESS STAIRS
GEN. ISOLATION / INFECTIOUS CAT HOUSING
RESPIRATORY ISOLATION / INFECTIOUS CAT HOUSING
SUPP. STOR.
KITTY LITTER STORAGE
FOOD PREP. KITCHEN
PUBLIC CORRIDOR
STAFF CORRIDOR
EXOTIC ANIMAL HOUSING
CAT FOOD STORAGE
SMALL MAMMAL HOUSING
CAT SUPPLIES STORAGE
FOOD BOWL WASH AREA
MECHANICAL / AHU
H.C. ELEVATOR
KITTEN DISPLAY ROOM
LONG TERM DOCUMENT STORAGE
EXISTING LOUVER PANEL TO REMAIN
EXISTING LOUVER PANEL
EXISTING WINDOW ABOVE. SEE INTERIOR ELEVATIONS

2 SECOND FLOOR PLAN - WORK AREA
3/16" = 1'-0"

REVISION		
NO.	DESCRIPTION	DATE

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WORK AREA PLANS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

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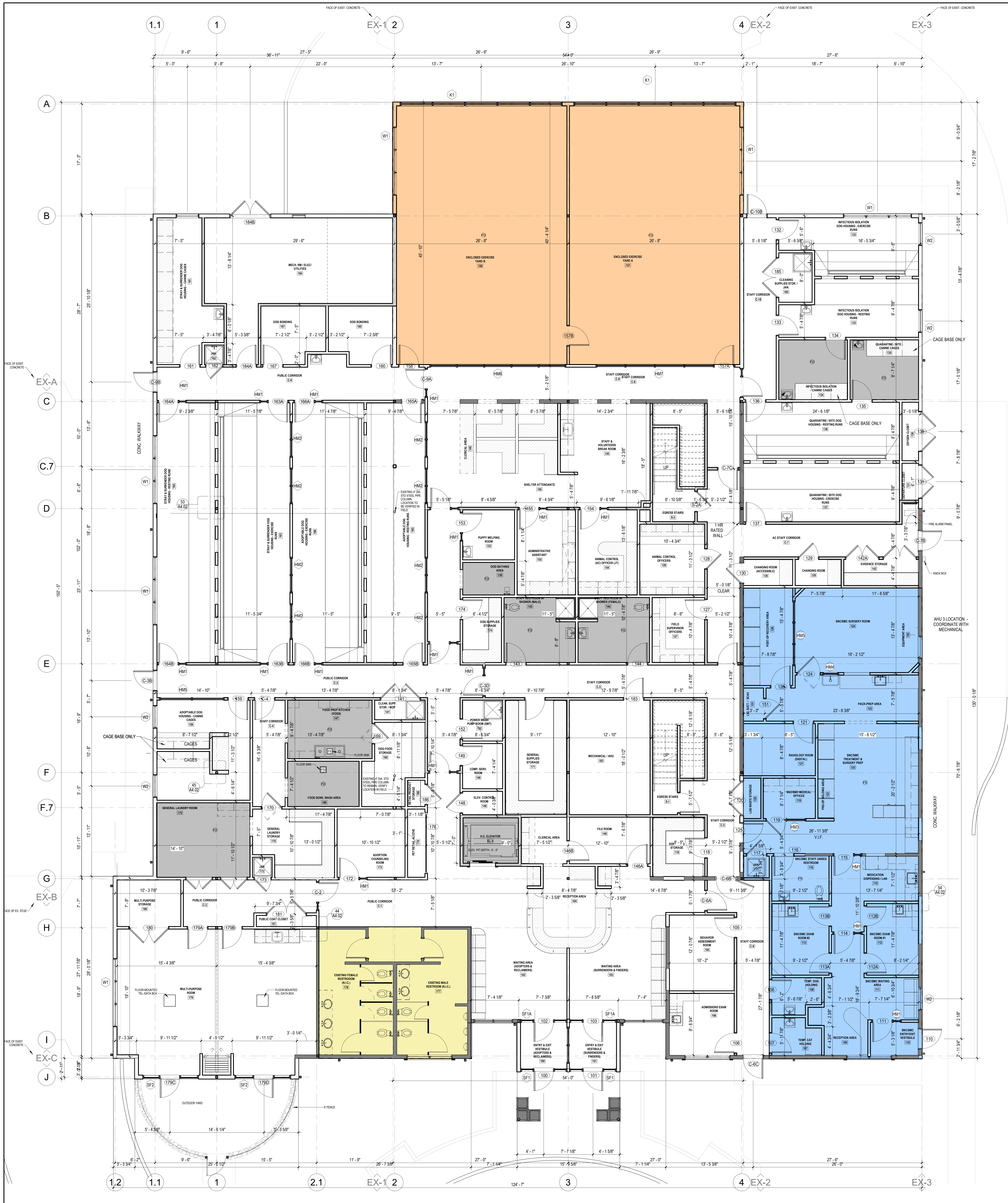
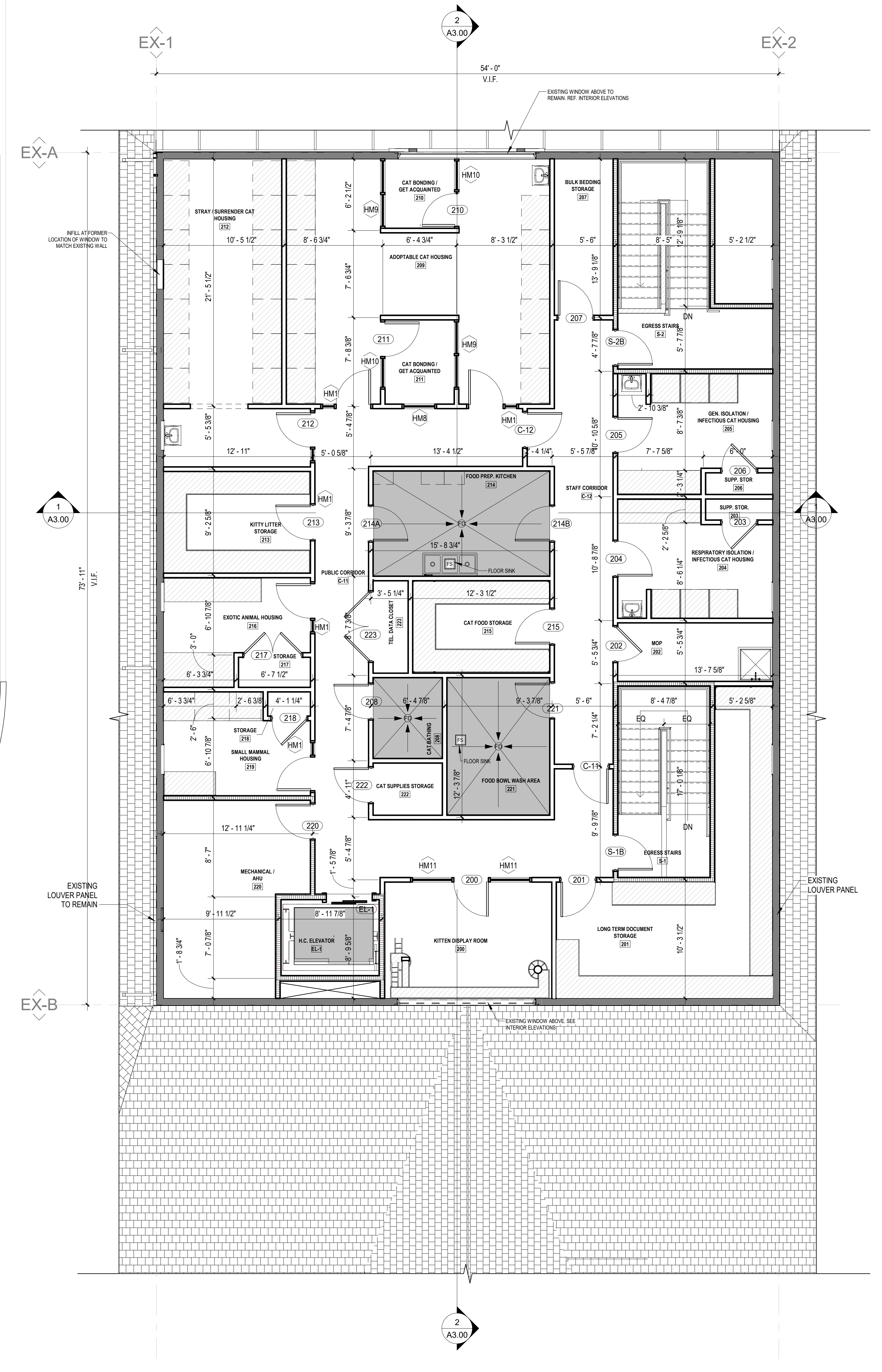

ENCLOSED EXERCISE YARD B
ENCLOSED EXERCISE YARD A
SNC/SMC SURGERY ROOM
PACK-PREP AREA
SNC/SMC TREATMENT & SURGERY PREP
EXISTING FEMALE RESTROOM (N.I.C.)
EXISTING MALE RESTROOM (N.I.C.)
MULTI-PURPOSE ROOM
WAITING AREA (ADOPTERS & RECLAIMERS)
WAITING AREA (SURRENDERS & FINDERS)
CONC. WALKWAY
CAGE BASE ONLY
OUTDOOR YARD

FIRST FLOOR PLAN - ADD DEDUCT
3/16" = 1'-0"

DEDUCT-ALTERNATE LEGEND

	TOTAL BASE BID PROJECT AREA:	19,939 SF
🟨	EXISTING AREA TO REMAIN (N.I.C.):	476 SF
🟧	DEDUCT ALTERNATE AREA #1 (EXERCISE YARD)	2,158 SF
🟦	DEDUCT ALTERNATE AREA #2 (SNC/SMC)	1,886 SF


EX-1
EX-2
EX-A
EX-B
54'-0" V.I.F.
EXISTING LOUVER PANEL TO REMAIN
EXISTING LOUVER PANEL
KITTEN DISPLAY ROOM
LONG TERM DOCUMENT STORAGE
FOOD BOWL WASH AREA

② SECOND FLOOR PLAN - ADD DEDUCT
3/16" = 1'-0"

PROJECT NORTH
TRUE NORTH

NO..	REVISION DESCRIPTION	DATE

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DEDUCT-ALT AREA PLAN

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

G0.05

JEFFERSON COUNTY ANIMAL RESOURCE CENTER

SITE DEVELOPMENT PLANS

PART OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 42 NORTH, RANGE 4 EAST

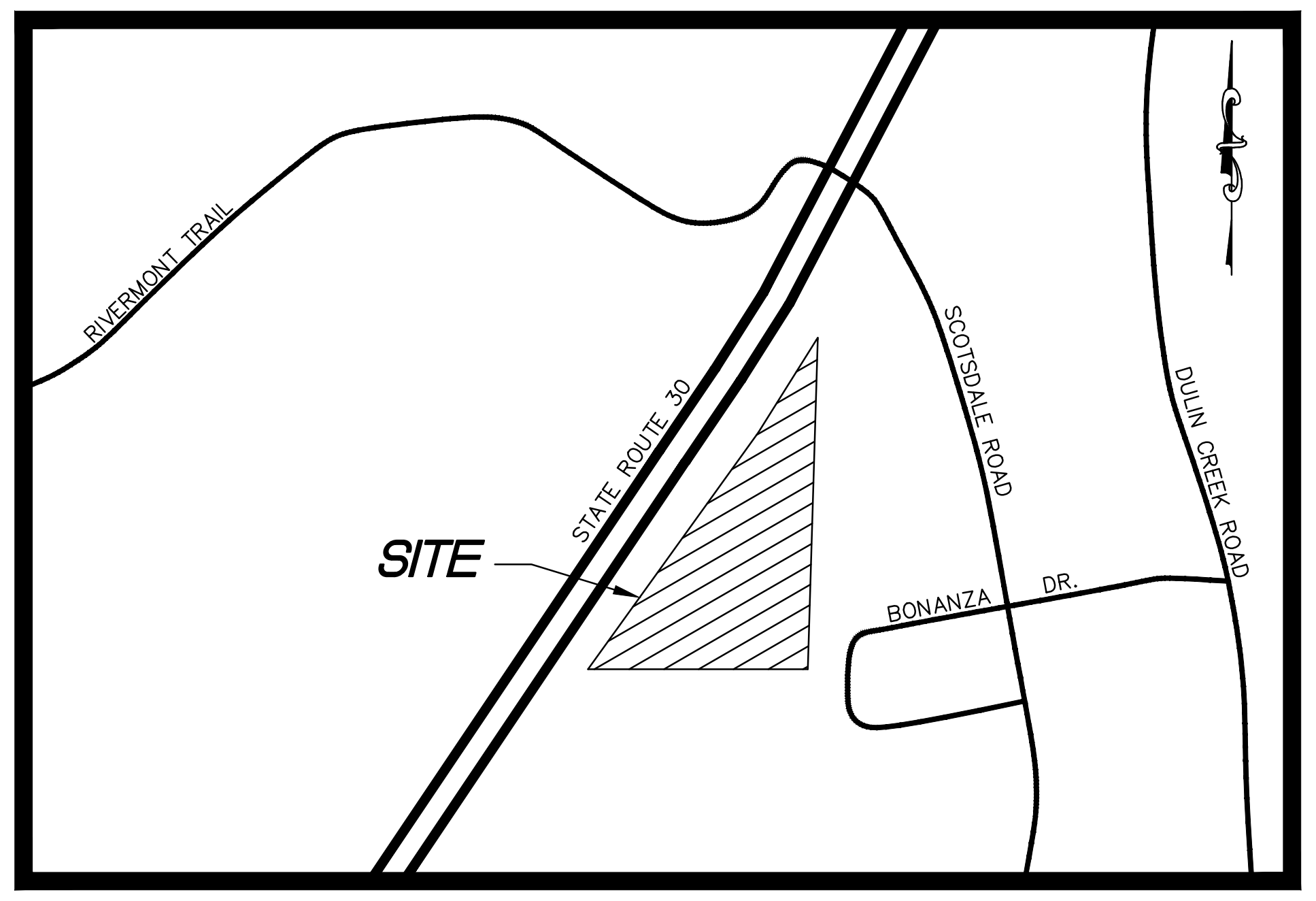
Jefferson County, Missouri

GENERAL NOTES

1. THE UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, OR LOCATION OF THESE OR OTHER UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.
2. ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.
3. ELEVATION CONTOURS AND BOUNDARY SURVEY PREPARED BY ASSOCIATED LAND SURVEYORS.
4. ALL MATERIALS AND METHODS OF CONSTRUCTION TO MEET THE CURRENT STANDARDS AND SPECIFICATIONS OF JEFFERSON COUNTY.
5. ALL GRADED AREAS SHALL BE PROTECTED FROM EROSION BY EROSION CONTROL DEVICES AND/OR SEEDING AND MULCHING AS REQUIRED BY THE JEFFERSON COUNTY PUBLIC WORKS DEPT. & MISSOURI DNR.
6. PRIOR TO BEGINNING ANY WORK ON THE SITE, THE DEVELOPER SHALL HAVE A PRECONSTRUCTION CONFERENCE WITH THE PUBLIC WORKS DEPARTMENT INSPECTOR PRIOR TO ANY CLEARING , GRADING, OR INSTALLATION OF IMPROVEMENTS.
7. GRADING CONTRACTOR SHALL INSTALL SILTATION CONTROL PRIOR TO STARTING THE GRADING. ADDITIONAL SILTATION CONTROL DEVICES SHALL BE INSTALLED PER JEFFERSON COUNTY.
8. ALL FILLS AND BACKFILLS SHALL BE MADE OF SELECTED EARTH MATERIALS, FREE FROM BROKEN MASONRY, ROCK, FROZEN EARTH, RUBBISH, ORGANIC MATERIAL AND DEBRIS.
9. GRADING CONTRACTOR SHALL KEEP EXISTING ROADWAYS CLEAN OF MUD AND DEBRIS AT ALL TIMES.
10. PROPOSED CONTOURS SHOWN ARE FINISHED ELEVATIONS ON PAVED AREAS.
11. NO GRADE SHALL EXCEED 3:1 SLOPE.
12. A GRADING PERMIT IS REQUIRED PRIOR TO ANY GRADING ON THE SITE. NO CHANGE IN WATERSHEDS SHALL BE PERMITTED.
13. INTERIM STORMWATER DRAINAGE CONTROL IN THE FORM OF SILTATION CONTROL MEASURES ARE REQUIRED.
14. THE DEVELOPER IS REQUIRED TO PROVIDE ADEQUATE STORMWATER SYSTEMS IN ACCORDANCE WITH JEFFERSON COUNTY STANDARDS.
15. ALL STORMWATER SHALL BE DISCHARGED AT AN ADEQUATE NATURAL DISCHARGE POINT.
16. ADEQUATE TEMPORARY OFF-STREET PARKING SHALL BE PROVIDED FOR CONSTRUCTION EMPLOYEES. PARKING ON NON-SURFACED AREAS SHALL BE PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO THE PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS.
17. THE DEVELOPER IS ADVISED THAT UTILITY COMPANIES WILL REQUIRE COMPENSATION FOR RELOCATION OF THEIR UTILITY FACILITIES WITHIN PUBLIC ROAD RIGHT-OF-WAY. UTILITY RELOCATION COST SHALL BE CONSIDERED THE DEVELOPER'S RESPONSIBILITY. THE DEVELOPER SHOULD ALSO BE AWARE OF EXTENSIVE DELAYS IN UTILITY COMPANY RELOCATION AND ADJUSTMENTS. SUCH DELAYS WILL NOT CONSTITUTE A CAUSE TO OCCUPANCY PRIOR TO COMPLETION OF ROAD IMPROVEMENTS.
18. THE OWNER SHALL, AT ALL TIMES, CONTAIN MUD AND OTHER SPOILS ON THIS SITE. NO VEHICLE, TRAILER OR CONSTRUCTION EQUIPMENT IS TO DEPOSIT MUD OR ANY OTHER MATERIAL ON PUBLIC STREETS. PROJECT WILL BE STOPPED IF STREETS ARE NOT CLEANED IMMEDIATELY.
19. GRAVOIS ROAD SHALL BE KEPT OPEN TO TRAFFIC DURING ALL PHASES OF CONSTRUCTION OF IMPROVEMENTS IN THE RIGHT-OF-WAY. NO DRIVING LANES SHALL BE CLOSED WITHOUT PRIOR WRITTEN PERMISSION FROM THE JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT.
20. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE TRAFFIC CONTROL DEVICES FOR THE PURPOSE OF REGULATING, WARNING, AND DIRECTING TRAFFIC DURING ALL PHASES OF CONSTRUCTION IN PILLEN ROAD. ALL FLAGMEN, BARRICADES, WARNING SIGNS, ETC. SHALL CONFORM TO THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES.
21. ENTRANCE PERMIT IS REQUIRED FROM JEFFERSON COUNTY DEPARTMENT OF PUBLIC WORKS.

GRADING NOTES:

1. THE CONTRACTOR SHALL NOTIFY JEFFERSON COUNTY DEPT. OF PUBLIC WORKS A MIN. OF 48 HOURS PRIOR TO THE COMMENCEMENT OF GRADING AND/OR CONSTRUCTION.
2. PARKING ON NON-SURFACED AREAS IS PROHIBITED IN ORDER TO ELIMINATE THE CONDITION WHEREBY MUD FROM CONSTRUCTION AND EMPLOYEE VEHICLES IS TRACKED ONTO PAVEMENT CAUSING HAZARDOUS ROADWAY AND DRIVING CONDITIONS. CONTRACTOR SHALL KEEP ROAD CLEAR OF MUD AND DEBRIS.
3. THE STREETS SURROUNDING THIS DEVELOPMENT AND ANY STREET USED FOR CONST. ACCESS THERETO SHALL BE CLEANED THROUGHOUT THE DAY.
4. EROSION AND SILTATION CONTROL SHALL BE INSTALLED PRIOR TO ANY GRADING AND BE MAINTAINED THROUGHOUT THE PROJECT UNTIL ACCEPTANCE OF THE WORK BY THE OWNER AND/OR CONTROLLING REGULATORY AGENCY AND ADEQUATE VEGETATIVE GROWTH INSURES NO FURTHER EROSION OF THE SOIL.
5. ADDITIONAL SILTATION CONTROL MAY BE REQUIRED AS DEEMED NECESSARY BY THE VILLAGE OF SCOTTSDALE AND JEFFERSON COUNTY.
6. TEMPORARY SILTATION CONTROL MEASURES (STRUCTURAL) SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL VEGETATIVE COVER IS ESTABLISHED AT A SUFFICIENT DENSITY TO PROVIDE EROSION CONTROL ON SITE.
7. WHERE NATURAL VEGETATION IS REMOVED DURING GRADING, VEGETATION SHALL BE REESTABLISHED IN SUCH A DENSITY AS TO PREVENT EROSION.
8. WHEN CLEARING AND/OR GRADING OPERATIONS ARE COMPLETED OR SUSPENDED FOR MORE THAN 30 DAYS, ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO RETAIN SOIL MATERIALS ON SITE. PROTECTIVE MEASURES MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS/ CITY ENGINEER SUCH AS PERMANENT SEEDING, PERIODIC WETTING, MULCHING, OR OTHER SUITABLE MEANS.
9. IF CUT AND FILL OPERATIONS OCCUR DURING A SEASON NOT FAVORABLE FOR IMMEDIATE ESTABLISHMENT OF A PERMANENT GROUND COVER, A FAST GERMINATING ANNUAL SUCH AS RYE GRASSES OR SUDAN GRASSES SHALL BE UTILIZED TO RETARD EROSION, IF ADEQUATE STORMWATER DETENTION AND EROSION CONTROL DEVICES HAVE NOT BEEN ESTABLISHED.
10. ALL FINISHED GRADES (AREAS NOT TO BE DISTURBED BY FUTURE IMPROVEMENT) IN EXCESS OF 20% SLOPES (5:1) SHALL BE MULCHED AND TACKED AT THE RATE OF 100 POUNDS PER 1000 SQUARE FEET WHEN SEEDED.
11. THE LOT SHALL BE SEEDED AND MULCHED AT THE MIN. RATES DEFINED BY A SOIL STUDY OF THE ONSITE SOIL AND BORROW MATERIAL.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO EXCAVATION SHALL BE MADE SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PROPERTY OR ANY PUBLIC OR PRIVATE STREET WITHOUT SUPPORTING AND PROTECTING SUCH PUBLIC OR PRIVATE STREET OR PROPERTY FROM SETTLING, CRACKING OR OTHER DAMAGE.
13. STORM SEWER PIPES, OUTLETS AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND/OR PAVING.
14. SILTATION FENCES SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND FOR THE AMOUNT OF SEDIMENT WHICH HAS ACCUMULATED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE SILTATION FENCE.
15. STRAW BALES SHALL BE INSPECTED PERIODICALLY FOR DETERIORATION. BALES WHICH HAVE ROTTED OR FAILED SHALL BE REPLACED. REMOVAL OF SEDIMENT WILL BE REQUIRED WHEN IT REACHES 1/2 THE HEIGHT OF THE BALES.
16. ALL FILLS PLACED UNDER PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS, INCLUDING TRENCH BACKFILLS WITHIN AND OFF THE ROAD RIGHT-OF-WAY, SHALL BE COMPACTED TO 90% OF THE MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST" (ASTM D-1557) FOR THE ENTIRE DEPTH OF FILL. COMPACTED GRANULAR BACKFILL IS REQUIRED IN ALL TRENCH EXCAVATION WITHIN THE STREET RIGHT-OF-WAY AND UNDER ALL PAVED AREAS. ALL TESTS SHALL BE PERFORMED UNDER THE DIRECTION OF AND VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
17. ALL TRASH AND DEBRIS ONSITE, EITHER EXISTING OR FROM CONSTRUCTION, MUST BE REMOVED AND PROPERLY DISPOSED OF OFFSITE.
18. DEBRIS AND FOUNDATION MATERIAL FROM ANY EXISTING ON-SITE BUILDING OR STRUCTURE WHICH IS SCHEDULED TO BE RAZED FOR THIS DEVELOPMENT MUST BE PROPERLY SHALL BE STOCKPILED AS DIRECTED BY THE GEOTECHNICAL ENGINEER FOR USE AS ROCK BLANKET OR IN THE ROCK BUTTRESS' REQUIRED ON SITE.
19. THE WELL AND ON-SITE SEWAGE DISPOSAL ON THIS PROPERTY SHALL BE PROTECTED DURING CONSTRUCTION IN A MANNER ACCEPTABLE TO JEFFERSON COUNTY AND THE MISSOURI DEPARTMENT OF NATURAL RESOURCES.
20. ALL EXCAVATIONS, GRADING OR FILLING SHALL HAVE A FINISHED GRADE NOT TO EXCEED A 3:1 SLOPE (33%), UNLESS SPECIFICALLY APPROVED OTHERWISE.



LOCATION MAP

PROJECT BENCHMARK: STATION: JE-104 A STANDARD MO DNR GRS DISK SATMPED "JE-104, 2009". IT IS LOCATED IN HOUSE SPRINGS, MO. IT IS 89.5 FT. EAST OF THE BUCHEIT SIGN POST. 82.4 FT. ESE OF AN ANGLE POINT IN CURB, 31.5'SW OF THE CENTER OF MISSOURI ROUTE MM, 68.5 FT. NW OF THE CENTER OF THE EAST ENTRANCE TO BUCHEIT AND 67.6 FT. NW OF THE CENTER OF A LIGHT POLE. ELEVATION: 466.21

SITE BENCHMARK #1: A CUT "U"ON THE EAST EDGE OF A CONCRETE PEDESTAL FOR A LIGHT STANDARD. IT IS 59± FT NORTHEAST OF THE MOST EASTERN CORNER OF THE BUILDING AT #4848 STATE ROUTE 30 AND 30± NORTHWEST OF A ROCK BLUFF. ELEVATION: 547.25

SITE BENCHMARK #2: A CUT "L" ON THE CONCRETE PEDESTAL FOR A LIGHT STANDARD. IT IS 141± FT SOUTHEAST ALONG THE DRIVE TO 4848 STATE ROUTE 30 FROM THE OF THE EAST EDGE OF THE NORTH BOUND SHOULDER OF STATE ROUTE 30. ITIS 18± FT NORTH OF THE CENTER LINE OF DRIVE TO 4848 STATE ROUTE 30 AND 7± FT NORTHWEST OF A GATE. ELEVATION: 511.67

DRAWING INDEX

C1.0	CIVIL TITLE SHEET
C2.0	TOPOGRAPHIC & EXISTING CONDITIONS SURVEY
C3.0	DEMOLITION PLAN
C4.0	SITE PLAN
C4.1	GRADING PLAN
C5.0	ENLARGED GRADING PLAN & CONSTR. DETAILS
C6.0	DRAINAGE AREA PLAN (NOT FOR BID)

STORM SEWER NOTES:

1.) ALL MATERIALS AND METHODS OF CONSTRUCTION FOR STORM SEWERS TO MEET REQUIREMENTS OF JEFFERSON COUNTY.

2.) ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE GRANULARLY FILLED WITH 3/4" MINUS CRUSHED LIMESTONE ONLY. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH JEFFERSON COUNTY STANDARDS.

3.) ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III PIPES

4.) CONTRACTOR TO START LAYING PIPE AT DOWNSTREAM MANHOLE AND WORK UPSTREAM.

5.) TYPE "C" BEDDING PER M.S.D. STANDARDS REQUIRED FOR PIPES IN ROCK.

6.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF UTILITY CONNECTIONS FROM THE EXTERIOR TO INTERIOR OF THE BUILDING

EARTHWORK NOTES:

BULK CUT..3,750 CUBIC YARD

BULK FILL..+ CUBIC YARD

THE ENGINEER HAS CALCULATED THE ABOVE QUANTITIES OF EARTHWORK TO BE REGARDED AS AN ESTIMATE OF THE BULK MOVEMENT OR REDISTRIBUTION OF SOILS ON THIS PROJECT. AS AN ESTIMATE, THESE QUANTITIES ARE INTENDED FOR GENERAL USE, AND THE ENGINEER ASSUMES NO LIABILITY FOR COST OVERRUNS DUE TO EXCESS EXCAVATED MATERIALS OR SHORTAGES OF FILL.

THE QUANTITIES ESTIMATED FOR EACH OF THE IMPROVEMENT ITEMS LISTED ABOVE ARE BASED UPON THE HORIZONTAL AND VERTICAL LOCATION OF THE IMPROVEMENTS AS PROPOSED ON THE SITE ENGINEERING PLANS PREPARED BY J. R. GRIMES CONSULTING ENGINEERS.

THE ENGINEER'S EARTHWORK ESTIMATE DOES NOT INCLUDE ANY OF THE FOLLOWING ITEMS REQUIRING EARTHWORK THAT MAY BE NECESSARY FOR COMPLETION OF THE PROJECT: MISCELLANEOUS UNDERGROUND CONDUITS, INCLUDING SEWER LINES AND WATER MAINS LESS THAN TWENTY-FOUR INCHES IN DIAMETER, STANDARD MANHOLES; PROCESS OR TRANSFER PIPING; ELECTRICAL OR TELEPHONE CONDUITS; BASES FOR LIGHT STANDARDS; BUILDING FOOTINGS AND FOUNDATIONS, ETC.

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACTUAL SIZE OF THE FIELD EXCAVATIONS MADE FOR THE INSTALLATION OF UNDERGROUND STRUCTURES, AND AS SUCH, THE ACTUAL QUANTITIES OF EARTHWORK FROM SUCH ITEMS MAY VARY FROM THE ESTIMATE SHOWN ABOVE.

THE ENGINEER ASSUMES NO RESPONSIBILITY FOR COSTS INCURRED DUE TO REMOVAL UNSUITABLE MATERIAL WHICH MUST BE REMOVED FROM SITE.

PRIVATE WATER LINE NOTES:

1. THE 1-1/2" SERVICE CONNECTION WILL REQUIRE THE PLUMBER TO OBTAIN A PERMIT FROM THE JEFFERSON COUNTY BUILDING DEPARTMENT PRIOR TO INSTALLATION. THE PUMP WILL NEED TO BE SHUT DOWN PRIOR TO INSTALLATION OF THE NEW SERVICE LINE. THE PLUMBER HAS TO SCHEDULE IT WITH THE PLUMBING INSPECTOR. THE PLUMBER HAS TO HAVE ALL REQUIRED INFORMATION, PLUS JEFFERSON COUNTY REQUIRES TWO SETS OF PLANS SHOWING THE PROPOSED LAYOUT AND VALVING. .
2. THE FOOTING OF THE BUILDING MUST BE IN BEFORE MISSOURI-AMERICAN WATER CO. WILL MAKE A TAP. MISSOURI-AMERICAN WATER DOES NOT MAKE TAPS FOR VACANT LOTS OR PREVIOUS TO SUBSTANTIAL BUILDING CONSTRUCTION.
3. A MINIMUM CLASS 52 DUCTILE IRON PIPE, CONFORMING TO APPLICABLE AWWA STANDARDS, IS REQUIRED ON ANY SERVICE LINE THAT IS 4" OR GREATER IN SIZE BEFORE A METER. COPPER PIPING IS REQUIRED FOR SMALLER SERVICES FROM THE MAIN THROUGH THE METER BOX. FOR SERVICES SMALLER THAN 4" IN SIZE FLEXIBLE TYPE "K" COPPER IS REQUIRED THROUGH THE STOP BOX. AFTER THE STOP BOX FLEXIBLE OR RIGID TYPE "K" OR "L" COPPER IS REQUIRED TO FOUR FEET BEYOND THE METER BOX. FOR LARGER SERVICES, DUCTILE IRON PIPE SHOULD RUN FROM THE MAIN TO A POINT AT LEAST SIX FEET BEYOND THE METER BOX. FROM THE BUILDING FOUNDATION, COOPER OR DUCTILE IRON PIPE MUST EXTEND A MINIMUM OF TEN FEET OUTSIDE THE BUILDING WALL. ONCE A FIRE LINE IS PAST A DETECTOR CHECK METER IT IS CONSIDERED TO BE METERED AND ANY MATERIALS CAN BE USED THAT COMPLY WITH THE LOCAL PLUMBING CODES (C-900 PVC IS THE MINIMUM). A "MASTER SERVICE" WOULD NOT METERED.
4. THE JOINTS ON COOPER SERVICE LINES (EXCLUDING JOINTS ON PRE-PURCHASED "METER SETTERS" SHALL BE EITHER FLARED, COMPRESSION, OR SILVER SOLDERED.
5. EXISTING SERVICES WILL HAVE TO BE DESTROYED AT THE MAIN UNLESS THEY ARE BEING REUSED. PERMISSION TO REUSE A SERVICE (EITHER PERMANENTLY OR TEMPORARILY) MUST COME FROM THE DISTRICT SUPERVISOR.
6. MISSOURI-AMERICAN WATER DOES NOT OWN, OPERATE, OR MAINTAIN SERVICE LINES. AS A GENERAL RULE MISSOURI-AMERICAN WATER DOES NOT RUN A WATER MAIN EXTENSION ON A PROJECT WHICH CAN BE SERVED BY A SERVICE LINE.
7. MISSOURI-AMERICAN WATER CO. REQUIRES A DETECTOR CHECK VALVE ON ALL FIRE PROTECTION LINES FOR SPRINKLER SYSTEMS. THEY ALSO REQUIRE A DETECTOR CHECK VALVE ON FIRE HYDRANTS, WITH THE POSSIBLE EXCEPTION OF HYDRANTS THAT ARE IMMEDIATELY ADJACENT TO AND VISIBLE FROM PUBLIC STREETS. MISSOURI-AMERICAN WATER USUALLY DOES NOT REQUIRE DETECTOR CHECKS ON FIRE HYDRANTS IN SHOPPING CENTERS, EXCEPT WHERE THEY WILL NOT BE VISIBLE FROM A PUBLIC STREET. MISSOURI-AMERICAN WATER ALSO REQUIRES VALVES ON BOTH FIRE AND DOMESTIC LINES AFTER THEY SPLIT FROM A COMBINED SERVICE. THUS A TYPICAL SPLIT SERVICE WOULD HAVE VALVES ON BOTH FIRE AND DOMESTIC LINES AFTER A TEE. OF COURSE THIS WOULD ALSO REQUIRE A VALVE ON A LINE GOING TO A FIRE HYDRANT THAT CAME OFF OF A "MASTER WATER SERVICE".

SITE DATA

PROPERTY OWNER:	JEFFERSON COUNTY PO BOX 100 HILLSBORO, MO 63050
EXISTING ZONING:	PLANNED COMMERCIAL
SITE ACREAGE:	7.91 ACRES
SITE ADDRESS:	4848 STATE RT 30 63051
PARCEL NUMBER:	07-3.0-05.0-0-000-082
FIRM:	COMMUNITY - PANEL NUMBER 290990 0475E

PROPOSED FACILITIES:
1 - 30,000 GAL LP TANK
100'x500' PAVED AREA

PARKING REQUIREMENTS:
NO PARKING REQUIRED

PROPOSED ZONIING:

PM: PLANNED COMMERCIAL AND CC2

PROPOSED USE TABLE:

PER SECTION 5.280 OF THE JEFFERSON COUNTY UNIFIED DEVELOPMENT ORDER:
  TABLE 5-1 ZONING MATRIX - THE PROPOSED USES FOR THIS SITE ARE:
    1. LP GAS & FUEL SALES, SINGLE FAMILY RES. DISTRIBUTION

HOURS OF OPERATION: 8:00 AM - 5:00 PM, 7 DAYS PER WEEK

REQUESTED DEVIATIONS:

ARTICLE 14.100.B

ARTICLE 14.400.4650 - RELIEF FROM OPEN YARD TREES AND SHRUBS DUE TO WOODED AREAS.
- RELIEF FROM PARKING PAVEMENT REQUIREMENTS

SERVICE DISTRICTS

FIRE:	CEDAR HILL FIRE PROTECTION DISTRICT 6766 CEDAR HILL DRIVE CEDAR HILL, MISSOURI 63016 636.285.3345
AMBULANCE:	BIG RIVER AMBULANCE DISTRICT 6321 LORENDS DRIVE CEDAR HILL, MISSOURI 63016 636.282.2654
SCHOOL:	NORTHWEST R1 SCHOOL DISTRICT 2843 COMMUNITY LANE. HIGH RIDGE, MISSOURI 63049 636.677.3473
SEWER:	MISSOURI AMERICAN CRAIG ROAD ST. LOUIS, MISSOURI 63141 314-486-0491
WATER:	LIBERTY UTILITIES 110 FOSTER STREET NOEL, MISSOURI 64854 1-855-871-8226
GAS:	MISSOURI NATURAL GAS COMPANY P.O. BOX 219 FESTUS, MISSOURI 63028 636.931.5639
ELECTRIC:	AMEREN UE 6450 HIGHWAY MM HOUSE SPRINGS, MISSOURI 63051 636.671.6134
TELEPHONE:	SOUTHWESTERN BELL TELEPHONE CO. 120 N. 2ND FESTUS, MISSOURI 63028 636.931.7506
POST OFFICE:	U.S. POST OFFICE 7050 STATE ROAD BB CEDAR HILL, MISSOURI 63016 800.275.8777
CABLE TV:	CHARTER COMMUNICATIONS 941 CHARTER COMMONS TOWN AND COUNTRY, MISSOURI 63017 866.373.3884
JEFFERSON COUNTY 911:	5475 BUCKEYE VALLEY ROAD HOUSE SPRINGS, MISSOURI 63051 636.797.9797

ABBREVIATIONS

N/F	NOW OR FORMERLY
w	WIDE
DB.	DEED BOOK
PB.	PLAT BOOK
PG.	PAGE
CONC.	CONCRETE
SAN.	SANITARY
MH	MANHOLE
R	RADIUS
L	LENGTH
D	DELTA
TBR	TO BE REMOVED
UIP	TO BE USED IN PLACE
D.S.	ROOF DOWNSPOUT

LEGEND

	UTILITY POLE
	FIRE HYDRANT
GV ⋈	GAS VALVE
---○---	SANITARY SEWER
===□===	STORM SEWER
—G—	GAS LINE
—W—	WATER LINE
—OHE—	OVERHEAD ELECTRIC LINE
580---	EXISTING CONTOURS
600—	PROPOSED CONTOURS
—●—	PROPOSED SANITARY SEWERS
—■—	PROPOSED STORM SEWERS
— ☼ —	PROPOSED LIGHT STANDARD

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NO.	DESCRIPTION	DATE

REVISION

ENGINEER SEAL
DAVID L. VONARX NUMBER E-26647
3/22/19

VonArx Engineering

10785 BUSINESS 21, SUITE A
HILLSBORO, MISSOURI 63050
dvonarx@vonarxengineering.com
CERTIFICATE OF AUTHORITY 0975
OFFICE: (636) 797-8425

Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

CIVIL - TITLE SHEET

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: E. Fletcher
CHECKED BY: D. Vonarx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

C1.0

TOPOGRAPHIC SURVEY

PART OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 42 NORTH, RANGE 4 EAST

Jefferson County, Missouri

GENERAL NOTES:

NO TITLE COMMITMENT HAS BEEN PROVIDED TO THE SURVEYOR.

NO BOUNDARY SURVEY HAS BEEN CONDUCTED; BOUNDARY LINES SHOWN HEREON ARE FOR REFERENCE ONLY.

NO RESEARCH HAS BEEN CONDUCTED REGARDING ZONING, EASEMENTS AND/OR BUILDING LINES THEREFORE NONE ARE SHOWN HEREON.

NO RESEARCH HAS BEEN CONDUCTED REGARDING UTILITIES; UTILITIES SHOWN WERE LOCATED BY FIELD OBSERVATIONS AND AS MARKED BY MISSOURI ONE CALL. TICKET NUMBERS: 181661899, 18166900.

PROJECT BENCHMARK: STATION: JE–104 A STANDARD MO DNR GRS DISK SATMPED "JE–104, 2009". IT IS LOCATED IN HOUSE SPRINGS, MO. IT IS 89.5 FT. EAST OF THE BUCHEIT SIGN POST. 82.4 FT. ESE OF AN ANGLE POINT IN CURB, 31.5'SW OF THE CENTER OF MISSOURI ROUTE MM, 68.5 FT. NW OF THE CENTER OF THE EAST ENTRANCE TO BUCHEIT AND 67.6 FT. NW OF THE CENTER OF A LIGHT POLE.
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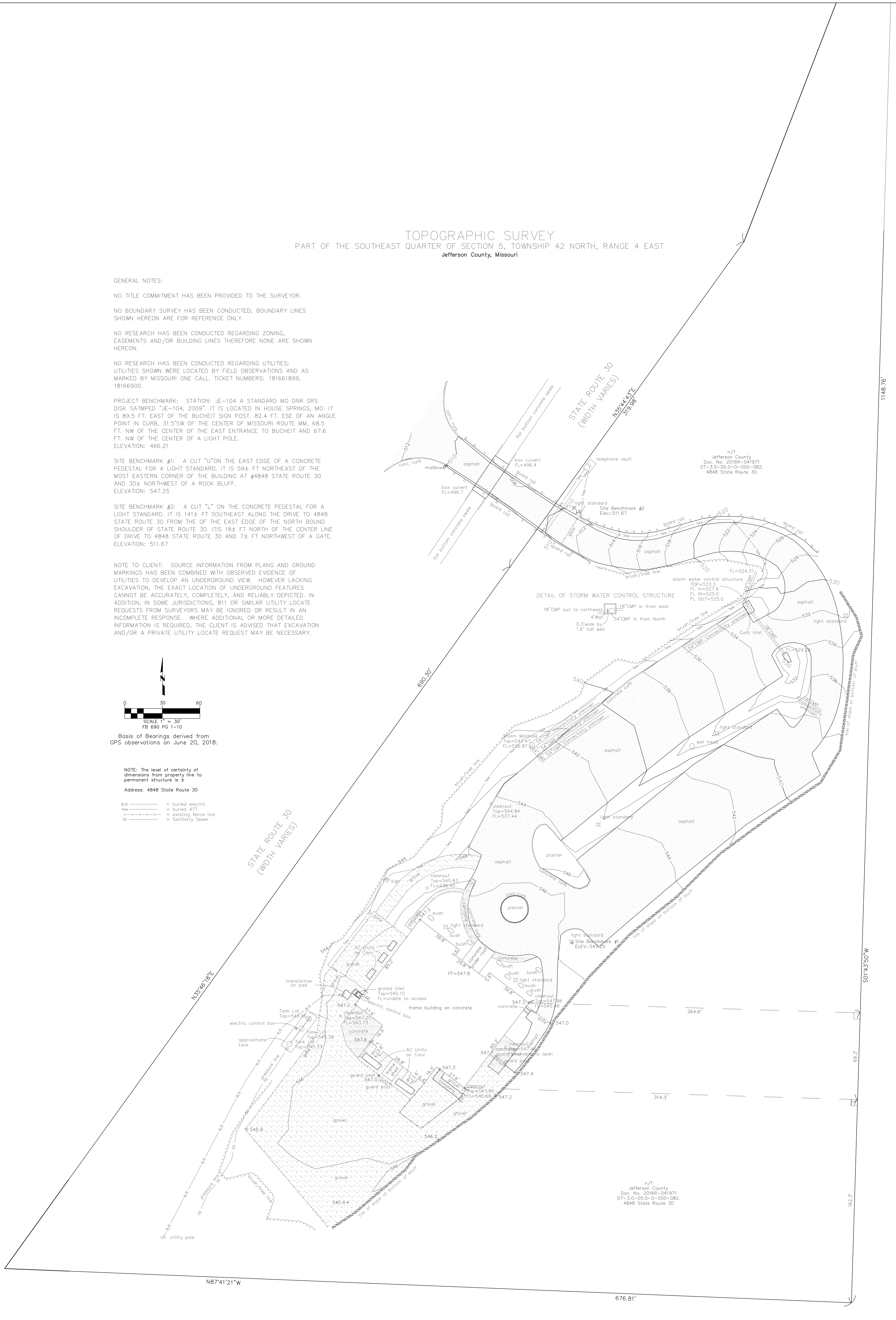
ELEVATION: 511.67

NOTE TO CLIENT: SOURCE INFORMATION FROM PLANS AND GROUND MARKINGS HAS BEEN COMBINED WITH OBSERVED EVIDENCE OF UTILITIES TO DEVELOP AN UNDERGROUND VIEW. HOWEVER LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. IN ADDITION, IN SOME JURISDICTIONS, 811 OR SIMILAR UTILITY LOCATE REQUESTS FROM SURVEYORS MAY BE IGNORED OR RESULT IN AN INCOMPLETE RESPONSE. WHERE ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, THE CLIENT IS ADVISED THAT EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY.


N
0
30
60
SCALE 1" = 30'
FB 690 PG 1–10
STATE ROUTE 30 (WIDTH VARIES)
N35°44'43"E
319.98'
690.30'
N35°46'18"E
N87°41'21"W
676.81'
S01°43'50"W
1148.76'
264.6'
314.3'
162.3'
n/f
Jefferson County
Doc. No. 2016R–041971
07–3.0–05.0–0–000–082.
4848 State Route 30
conc curb
mailbox
asphalt
box culvert
FL=496.4
box culvert
FL=496.7
flat bottom concrete swale
guard rail
telephone vault
light standard
Site Benchmark #2
Elev.: 511.67
DETAIL OF STORM WATER CONTROL STRUCTURE
18"CMP in from east
18"CMP out to northwest
4'Wall
0.5'wide by 1.6' tall weir
24"CMP in from North
storm water control structure
Curb Inlet
well head
planter
cleanout
light standard
Site Benchmark #1
ELEV.: 547.25
frame building on concrete
AC Units on Conc
transformer on pad
electric control box
approximate tank
Tank Lid
concrete
gravel
guard post
bush
utility pole
brush/tree line
toe of slope at bottom of bluff

Basis of Bearings derived from GPS observations on June 20, 2018.

NOTE: The level of certainty of dimensions from property line to permanent structure is ±

Address: 4848 State Route 30

B/E = buried electric
Tele = buried ATT
x—x—x—x—x— = existing fence line
SS = Sanitarty Sewer

THE UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON–EXISTENCE, SIZE, TYPE, OR LOCATION OF THESE OR OTHER UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

REVISION

NO.	DESCRIPTION	DATE

ENGINEER SEAL

DAVID L. VONARX

3/22/19

VonArx Engineering
10785 BUSINESS 21, SUITE A
HILLSBORO, MISSOURI 63050
dvonarx@vonarxengineering.com
CERTIFICATE OF AUTHORITY 0975
OFFICE: (636) 797-8425

Jefferson County Animal Care Facility

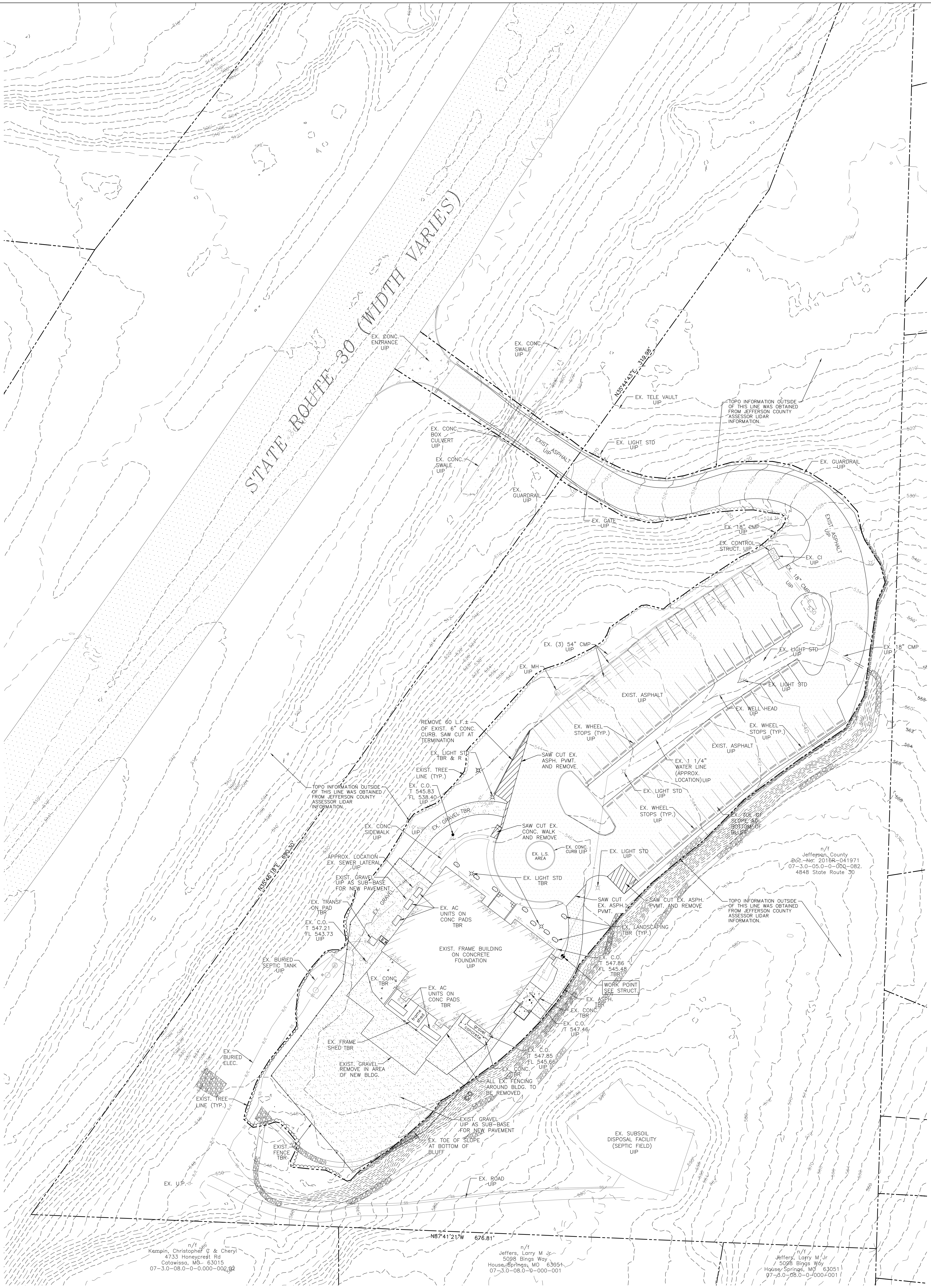
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

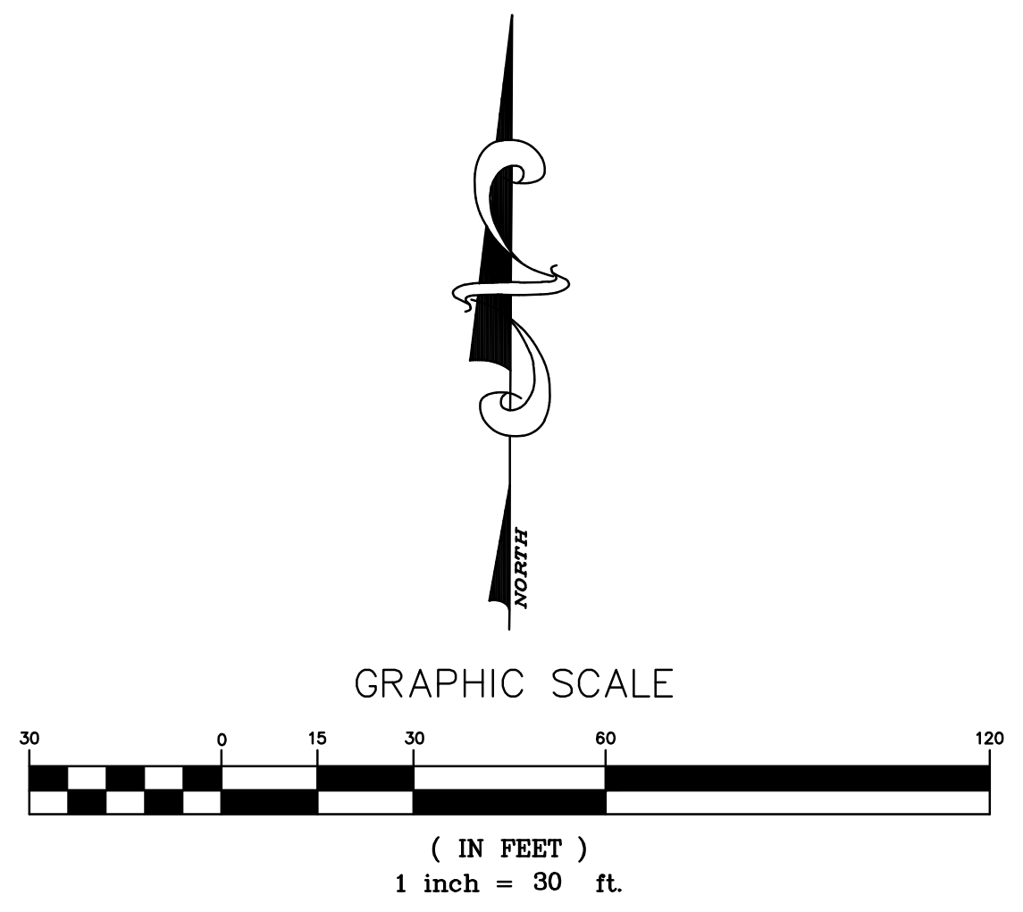
CIVIL - TOPOGRAPHIC & EXISTING CONDITIONS SURVEY

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: E. Fletcher
CHECKED BY: D. Vonarx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

C2.0


STATE ROUTE 30 (WIDTH VARIES)
EX. CONC. ENTRANCE UIP
EX. CONC. SWALE UIP
N35°44'43"E 319.98'
EX. TELE VAULT UIP
TOPO INFORMATION OUTSIDE OF THIS LINE WAS OBTAINED FROM JEFFERSON COUNTY ASSESSOR LIDAR INFORMATION.
EX. CONC. BOX CULVERT UIP
EX. CONC. SWALE UIP
EXIST. ASPHALT UIP
EX. LIGHT STD UIP
EX. GUARDRAIL UIP
EX. GUARDRAIL UIP
EX. GATE UIP
FL=524.31
EX. 18" CMP UIP
EX. CONTROL STRUCT. UIP
EX. CI UIP
EXIST. ASPHALT UIP
EX. 18" CMP UIP
EX. (3) 54" CMP UIP
EX. LIGHT STD UIP
EX. 18" CMP UIP
EX. MH UIP
EX. LIGHT STD UIP
EXIST. ASPHALT UIP
EX. WELL HEAD UIP
REMOVE 60 L.F.± OF EXIST. 6" CONC. CURB. SAW CUT AT TERMINATION
EX. WHEEL STOPS (TYP.) UIP
EX. WHEEL STOPS (TYP.) UIP
EXIST. ASPHALT UIP
EX. LIGHT STD TBR & R
SAW CUT EX. ASPH. PVMT. AND REMOVE
EX. 1 1/4" WATER LINE (APPROX. LOCATION) UIP
EXIST. TREE LINE (TYP.)
EX. LIGHT STD UIP
TOPO INFORMATION OUTSIDE OF THIS LINE WAS OBTAINED FROM JEFFERSON COUNTY ASSESSOR LIDAR INFORMATION.
EX. C.O. T 545.83 FL 538.40 UIP
EX. WHEEL STOPS (TYP.) UIP
EX. GRAVEL TBR
EX. TOE OF SLOPE AT BOTTOM OF BLUFF
EX. CONC. SIDEWALK UIP
SAW CUT EX. CONC. WALK AND REMOVE
EX. L.S. AREA
EX. CONC. CURB UIP
EX. LIGHT STD UIP
n/f Jefferson County Doc. No. 2016R-041971 07-3.0-05.0-0-000-082. 4848 State Route 30
APPROX. LOCATION EX. SEWER LATERAL UIP
EX. LIGHT STD TBR
N35°46'18"E 690.30'
EXIST. GRAVEL UIP AS SUB-BASE FOR NEW PAVEMENT
EX. GRAVEL
SAW CUT EX. ASPH. PVMT.
SAW CUT EX. ASPH. PVMT. AND REMOVE
TOPO INFORMATION OUTSIDE OF THIS LINE WAS OBTAINED FROM JEFFERSON COUNTY ASSESSOR LIDAR INFORMATION.
EX. TRANSF ON PAD TBR
EX. AC UNITS ON CONC PADS TBR
EX. LANDSCAPING TBR (TYP.)
EX. C.O. T 547.21 FL 543.73 UIP
EXIST. FRAME BUILDING ON CONCRETE FOUNDATION UIP
EX. C.O. T 547.86 FL 545.48 TBR
EX. BURIED SEPTIC TANK UIP
WORK POINT SEE STRUCT.
EX. CONC TBR
EX. AC UNITS ON CONC PADS TBR
EX. ASPH. TBR
EX. CONC. TBR
frame shed
gravel
concrete
EX. C.O. T 547.46 UIP
EX. FRAME SHED TBR
EX. BURIED ELEC.
EXIST. GRAVEL REMOVE IN AREA OF NEW BLDG.
EX. C.O. T 547.85 FL 545.66 UIP
EX. CONC. TBR
ALL EX. FENCING AROUND BLDG. TO BE REMOVED
EXIST. TREE LINE (TYP.)
EXIST. GRAVEL UIP AS SUB-BASE FOR NEW PAVEMENT
EX. SUBSOIL DISPOSAL FACILITY (SEPTIC FIELD) UIP
EXIST. FENCE TBR
EX. TOE OF SLOPE AT BOTTOM OF BLUFF
EX. ROAD UIP
EX. U.P.
N87°41'21"W 676.81'
n/f Kempin, Christopher C & Cheryl 4733 Honeycrest Rd Catawissa, MO 63015 07-3.0-08.0-0-000-002.02
n/f Jeffers, Larry M Jr 5098 Bings Way House Springs, MO 63051 07-3.0-08.0-0-000-001
n/f Jeffers, Larry M Jr 5098 Bings Way House Springs, MO 63051 07-3.0-08.0-0-000-001


NORTH
GRAPHIC SCALE
30
0
15
30
60
120
(IN FEET)
1 inch = 30 ft.

THE UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON–EXISTENCE, SIZE, TYPE, OR LOCATION OF THESE OR OTHER UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

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REVISION		
NO.	DESCRIPTION	DATE

ENGINEER SEAL:
DAVID L VONARX
NUMBER E-26647
3/22/19

VonArx Engineering

10785 BUSINESS 21, SUITE A
HILLSBORO, MISSOURI 63050
dvonarx@vonarxengineering.com
CERTIFICATE OF AUTHORITY 0975
OFFICE: (636) 797-8425

Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

CIVIL - DEMOLITION PLAN

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: E. Fletcher
CHECKED BY: D. Vonarx
SCALE: As Noted
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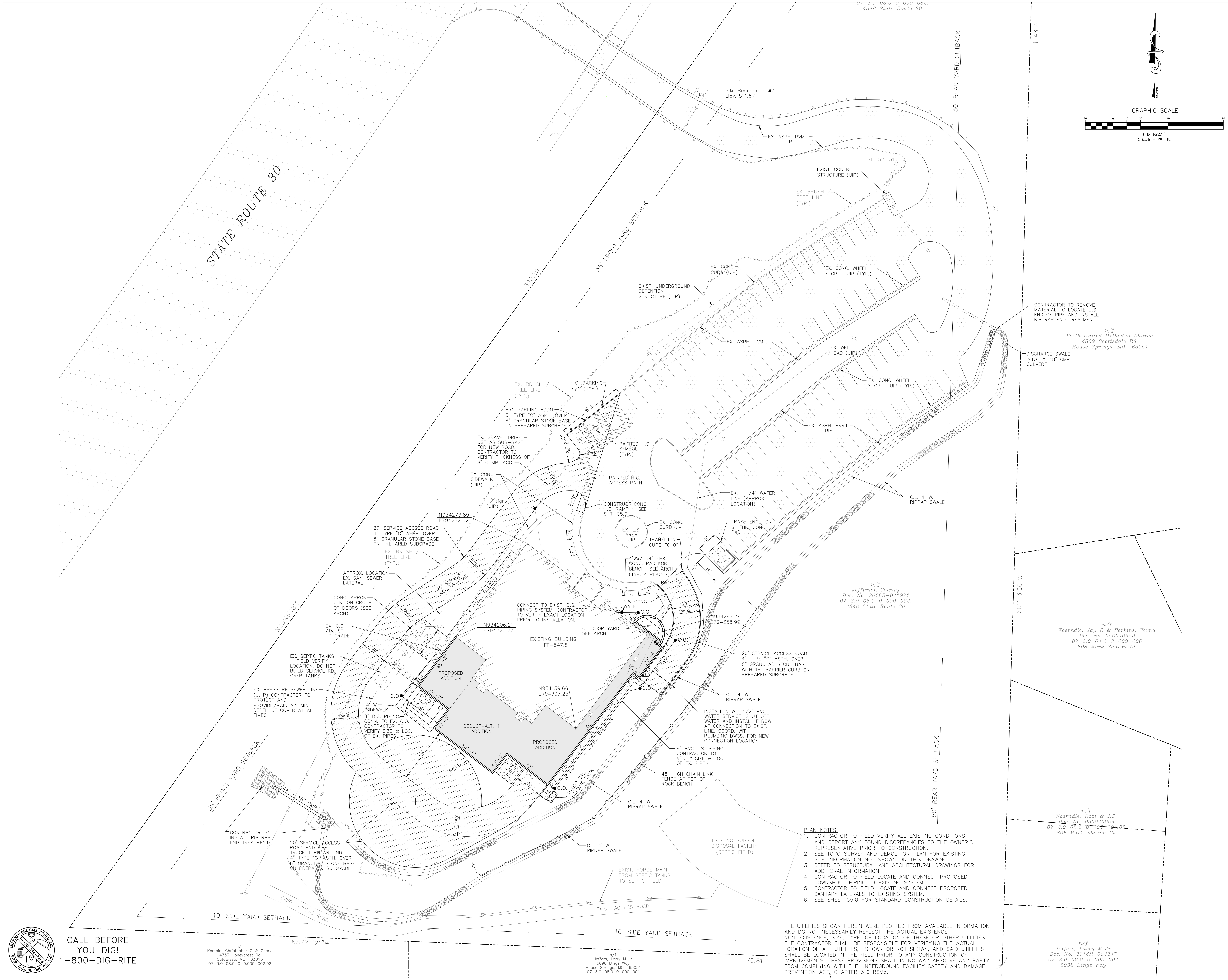
C3.0


STATE ROUTE 30
35' FRONT YARD SETBACK
690.30'
N35°46'18"E
Site Benchmark #2
Elev.: 511.67
EX. ASPH. PVMT. UIP
FL=524.31
EXIST. CONTROL STRUCTURE (UIP)
EX. BRUSH TREE LINE (TYP.)
EX. CONC. CURB (UIP)
EXIST. UNDERGROUND DETENTION STRUCTURE (UIP)
EX. CONC. WHEEL STOP – UIP (TYP.)
EX. WELL HEAD (UIP)
50' REAR YARD SETBACK
1148.76'
NORTH
GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.
CONTRACTOR TO REMOVE MATERIAL TO LOCATE U.S. END OF PIPE AND INSTALL RIP RAP END TREATMENT
DISCHARGE SWALE INTO EX. 18" CMP CULVERT
n/f
Faith United Methodist Church
4869 Scottsdale Rd.
House Springs, MO 63051
H.C. PARKING SIGN (TYP.)
H.C. PARKING ADDN. 3" TYPE "C" ASPH. OVER 8" GRANULAR STONE BASE ON PREPARED SUBGRADE
48'±
EX. GRAVEL DRIVE – USE AS SUB-BASE FOR NEW ROAD. CONTRACTOR TO VERIFY THICKNESS OF 8" COMP. AGG.
PAINTED H.C. SYMBOL (TYP.)
PAINTED H.C. ACCESS PATH
R=20'
R=5'
R=50'
R=10'
EX. CONC. SIDEWALK (UIP)
sign (UIP)
EX. 1 1/4" WATER LINE (APPROX. LOCATION)
C.L. 4' W. RIPRAP SWALE
CONSTRUCT CONC. H.C. RAMP – SEE SHT. C5.0
EX. L.S. AREA UIP
EX. CONC. CURB UIP
TRANSITION CURB TO 0"
TRASH ENCL. ON 6" THK. CONC. PAD
15'
19'
4'Wx7'Lx4" THK. CONC. PAD FOR BENCH (SEE ARCH.) (TYP. 4 PLACES)
R=10'
5'W CONC WALK
20'
R=52'
N934273.89
E794272.02
20' SERVICE ACCESS ROAD 4" TYPE "C" ASPH. OVER 8" GRANULAR STONE BASE ON PREPARED SUBGRADE
20' SERVICE ACCESS ROAD
R=60'
APPROX. LOCATION EX. SAN. SEWER LATERAL
4' CONC. SIDEWALK
39.8'
5.6'
29.8'
85.2'
CONNECT TO EXIST. D.S. PIPING SYSTEM. CONTRACTOR TO VERIFY EXACT LOCATION PRIOR TO INSTALLATION.
C.O.
N934297.39
E794358.99
CONC. APRON CTR. ON GROUP OF DOORS (SEE ARCH)
EX. C.O. ADJUST TO GRADE
N934206.21
E794220.27
EXISTING BUILDING
FF=547.8
OUTDOOR YARD SEE ARCH.
25'-7"
28'-4"
5'-4"
20' SERVICE ACCESS ROAD 4" TYPE "C" ASPH. OVER 8" GRANULAR STONE BASE WITH 18" BARRIER CURB ON PREPARED SUBGRADE
EX. SEPTIC TANKS – FIELD VERIFY LOCATION. DO NOT BUILD SERVICE RD. OVER TANKS.
B/E
22'
20'
30.35' (F.V.)
45'-3"
PROPOSED ADDITION
27'-7"
16.5'
6.7'
3.6'
28.8'
27.6'
N934139.66
E794307.25
EX. PRESSURE SEWER LINE (U.I.P) CONTRACTOR TO PROTECT AND PROVIDE/MAINTAIN MIN. DEPTH OF COVER AT ALL TIMES
4' W. SIDEWALK
COND UNIT PAD
8" D.S. PIPING CONN. TO EX. C.O. CONTRACTOR TO VERIFY SIZE & LOC. OF EX. PIPES
17'-3"
DEDUCT–ALT. 1 ADDITION
102'
54'-3"
PROPOSED ADDITION
40'
R=48'
37'
D.S.
8" PVC
10,000 GAL. HOLDING TANK
INSTALL NEW 1 1/2" PVC WATER SERVICE. SHUT OFF WATER AND INSTALL ELBOW AT CONNECTION TO EXIST. LINE. COORD. WITH PLUMBING DWGS. FOR NEW CONNECTION LOCATION.
8" PVC D.S. PIPING. CONTRACTOR TO VERIFY SIZE & LOC. OF EX. PIPES
48" HIGH CHAIN LINK FENCE AT TOP OF ROCK BENCH
44' – 18" CMP
CONTRACTOR TO INSTALL RIP RAP END TREATMENT
20' SERVICE ACCESS ROAD AND FIRE TRUCK TURN AROUND 4" TYPE "C" ASPH. OVER 8" GRANULAR STONE BASE ON PREPARED SUBGRADE
R=60'
EXISTING SUBSOIL DISPOSAL FACILITY (SEPTIC FIELD)
EXIST. FORCE MAIN FROM SEPTIC TANKS TO SEPTIC FIELD
EXIST. ACCESS ROAD
10' SIDE YARD SETBACK
N87°41'21"W
676.81'
S01°43'50"W
n/f
Jefferson County
Doc. No. 2016R–041971
07–3.0–05.0–0–000–082.
4848 State Route 30
n/f
Woerndle, Jay R & Perkins, Verna
Doc. No. 050040959
07–2.0–04.0–3–009–006
808 Mark Sharon Ct.
n/f
Woerndle, Robt & J.D.
Doc. No. 050040959
07–2.0–09.0–0–002–001.05
808 Mark Sharon Ct.
n/f
Jeffers, Larry M Jr
Doc. No. 2014R–002247
07–2.0–09.0–0–002–004
5098 Bings Way
n/f
Kempin, Christopher C & Cheryl
4733 Honeycrest Rd
Catawissa, MO 63015
07–3.0–08.0–0–0.000–002.02
n/f
Jeffers, Larry M Jr
5098 Bings Way
House Springs, MO 63051
07–3.0–08.0–0–000–001

PLAN NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY FOUND DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
2. SEE TOPO SURVEY AND DEMOLITION PLAN FOR EXISTING SITE INFORMATION NOT SHOWN ON THIS DRAWING.
3. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR TO FIELD LOCATE AND CONNECT PROPOSED DOWNSPOUT PIPING TO EXISTING SYSTEM.
5. CONTRACTOR TO FIELD LOCATE AND CONNECT PROPOSED SANITARY LATERALS TO EXISTING SYSTEM.
6. SEE SHEET C5.0 FOR STANDARD CONSTRUCTION DETAILS.

THE UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON–EXISTENCE, SIZE, TYPE, OR LOCATION OF THESE OR OTHER UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

MISSOURI ONE CALL SYSTEM, INC.
1-800-344-7483
STOP! CALL BEFORE YOU DIG!

CALL BEFORE
YOU DIG!
1-800-DIG-RITE

REVISION		
NO.	DESCRIPTION	DATE

ENGINEER SEAL
3/22/19

VonArx Engineering

10785 BUSINESS 21, SUITE A
HILLSBORO, MISSOURI 63050
dvonarx@vonarxengineering.com
CERTIFICATE OF AUTHORITY 0975
OFFICE: (636) 797-8425

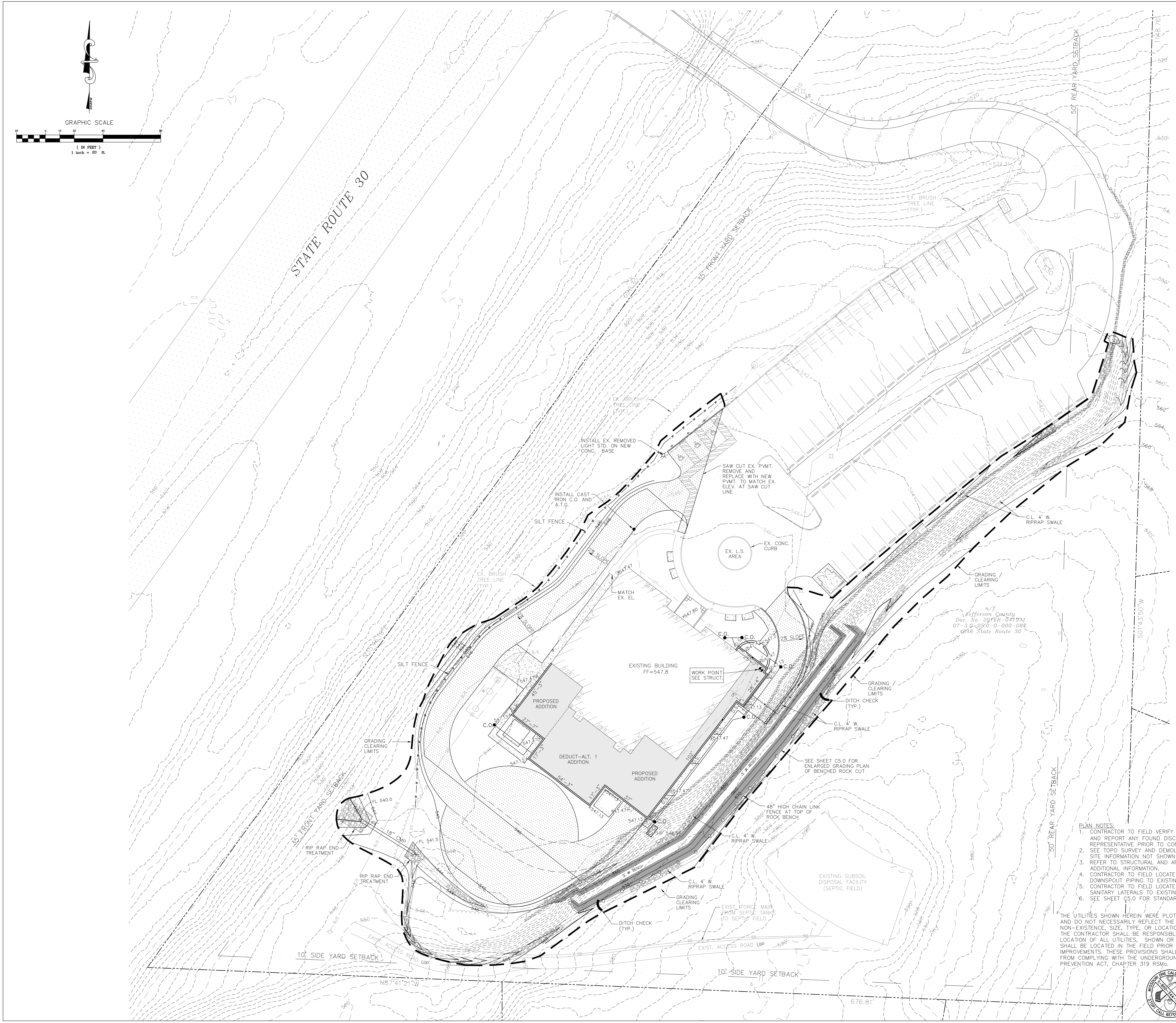
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

CIVIL - SITE PLAN

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: E. Fletcher
CHECKED BY: D. Vonarx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

C4.0


GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.
STATE ROUTE 30
35' FRONT YARD SETBACK
50' REAR YARD SETBACK
10' SIDE YARD SETBACK
N87°41'21"W
S01°43'50"W
676.81'
EX. BRUSH TREE LINE (TYP.)
INSTALL EX. REMOVED LIGHT STD. ON NEW CONC. BASE
SAW CUT EX. PVMT. REMOVE AND REPLACE WITH NEW PVMT. TO MATCH EX. ELEV. AT SAW CUT LINE
INSTALL CAST IRON C.O. AND A.T.G.
SILT FENCE
EX. L.S. AREA
EX. CONC. CURB
MATCH EX. EL.
C.O.
2% SLOPE
EXISTING BUILDING FF=547.8
WORK POINT SEE STRUCT.
PROPOSED ADDITION
DEDUCT-ALT. 1 ADDITION
PROPOSED ADDITION
C.L. 4' W. RIPRAP SWALE
GRADING CLEARING LIMITS
DITCH CHECK (TYP.)
SEE SHEET C5.0 FOR ENLARGED GRADING PLAN OF BENCHED ROCK CUT
48" HIGH CHAIN LINK FENCE AT TOP OF ROCK BENCH
FL 540.0
18" CMP
FL 541.5
RIP RAP END TREATMENT
n/f Jefferson County Doc. No. 2016R-041191 07-3.0-0-000-082 4848 State Route 30
EXISTING SUBSOIL DISPOSAL FACILITY (SEPTIC FIELD)
EXIST. FORCE MAIN FROM SEPTIC TANKS TO SEPTIC FIELD
EXIST. ACCESS ROAD
FL=524.31

PLAN NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS AND REPORT ANY FOUND DISCREPANCIES TO THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
2. SEE TOPO SURVEY AND DEMOLITION PLAN FOR EXISTING SITE INFORMATION NOT SHOWN ON THIS DRAWING.
3. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR TO FIELD LOCATE AND CONNECT PROPOSED DOWNSPOUT PIPING TO EXISTING SYSTEM.
5. CONTRACTOR TO FIELD LOCATE AND CONNECT PROPOSED SANITARY LATERALS TO EXISTING SYSTEM.
6. SEE SHEET C5.0 FOR STANDARD CONSTRUCTION DETAILS.

THE UTILITIES SHOWN HEREIN WERE PLOTTED FROM AVAILABLE INFORMATION AND DO NOT NECESSARILY REFLECT THE ACTUAL EXISTENCE, NON-EXISTENCE, SIZE, TYPE, OR LOCATION OF THESE OR OTHER UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACTUAL LOCATION OF ALL UTILITIES, SHOWN OR NOT SHOWN, AND SAID UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO ANY CONSTRUCTION OF IMPROVEMENTS. THESE PROVISIONS SHALL IN NO WAY ABSOLVE ANY PARTY FROM COMPLYING WITH THE UNDERGROUND FACILITY SAFETY AND DAMAGE PREVENTION ACT, CHAPTER 319 RSMo.

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YOU DIG!
1-800-DIG-RITE

REVISION		
NO.	DESCRIPTION	DATE

VonArx Engineering
10785 BUSINESS 21, SUITE A
HILLSBORO, MISSOURI 63050
dvonarx@vonarxengineering.com
CERTIFICATE OF AUTHORITY 0975
OFFICE: (636) 797-8425

ENGINEER SEAL
DAVID L. VONARX
3/22/19

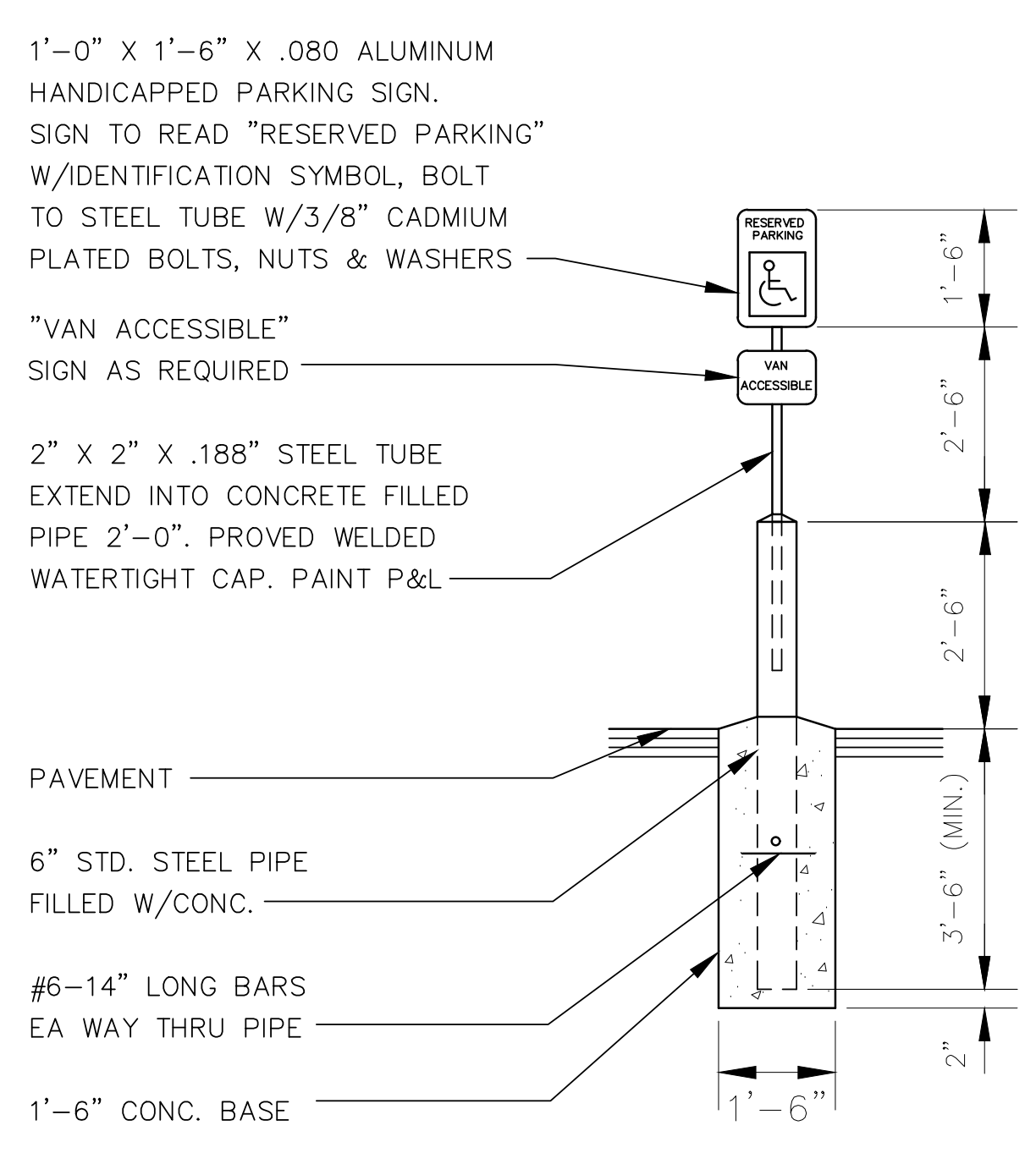
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

CIVIL - GRADING PLAN

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

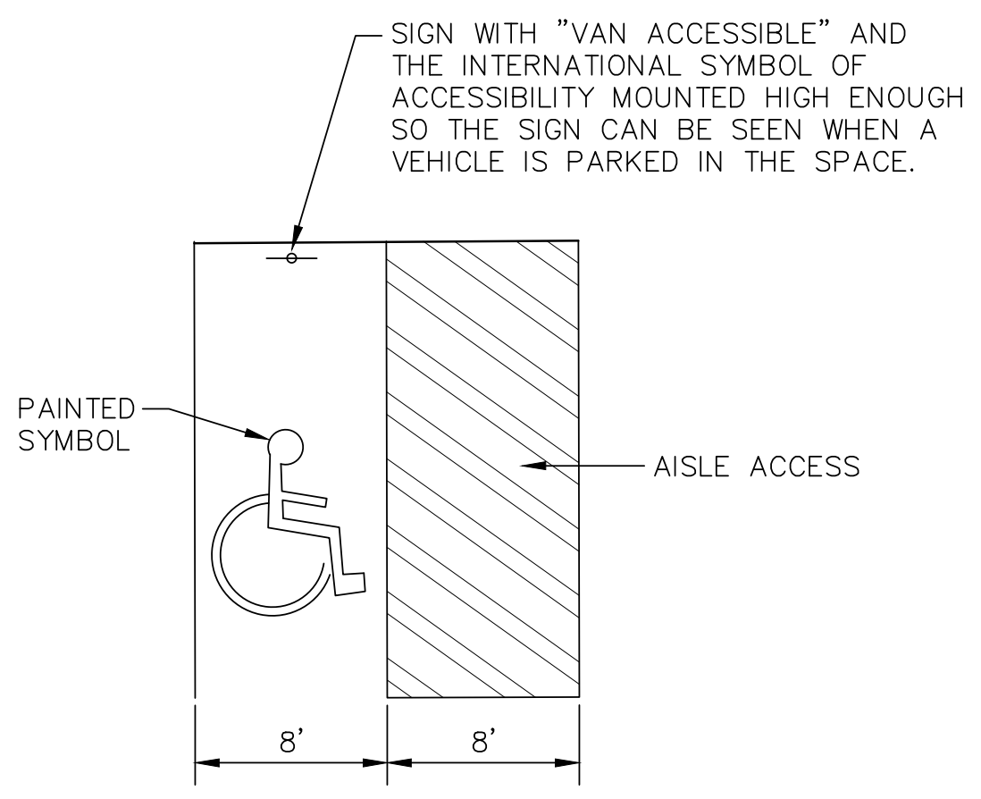
DRAWN BY: E. Fletcher
CHECKED BY: D. Vonarx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

C4.1

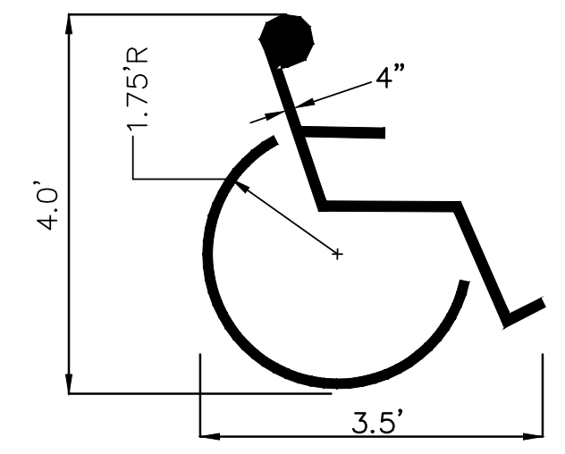

1'-0" X 1'-6" X .080 ALUMINUM HANDICAPPED PARKING SIGN. SIGN TO READ "RESERVED PARKING" W/IDENTIFICATION SYMBOL, BOLT TO STEEL TUBE W/3/8" CADMIUM PLATED BOLTS, NUTS & WASHERS
"VAN ACCESSIBLE" SIGN AS REQUIRED
2" X 2" X .188" STEEL TUBE EXTEND INTO CONCRETE FILLED PIPE 2'-0". PROVED WELDED WATERTIGHT CAP. PAINT P&L
PAVEMENT
6" STD. STEEL PIPE FILLED W/CONC.
#6-14" LONG BARS EA WAY THRU PIPE
1'-6" CONC. BASE
RESERVED PARKING
VAN ACCESSIBLE
1'-6"
2'-6"
2'-6"
3'-6" (MIN.)
2"
1'-6"

NOTE:
1. HANDICAPPED PARKING SIGN SHALL CONFORM WITH CURRENT STATE AND LOCAL CODES AND REGULATIONS.

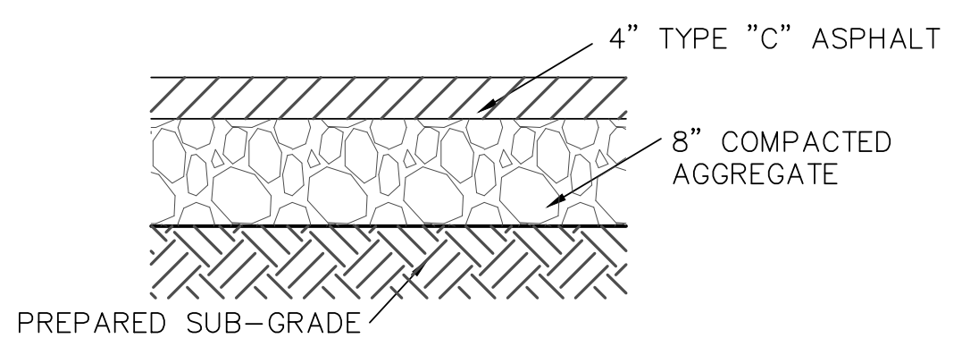
HANDICAP PARKING SIGN
N.T.S.


SIGN WITH "VAN ACCESSIBLE" AND THE INTERNATIONAL SYMBOL OF ACCESSIBILITY MOUNTED HIGH ENOUGH SO THE SIGN CAN BE SEEN WHEN A VEHICLE IS PARKED IN THE SPACE.
PAINTED SYMBOL
AISLE ACCESS
8'
8'

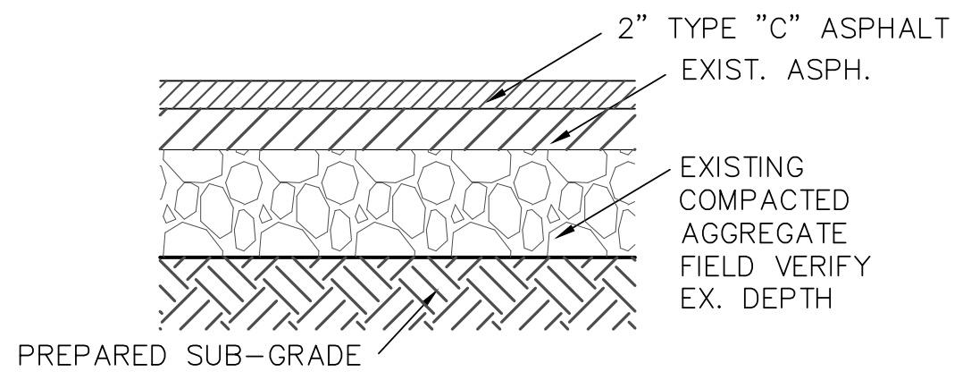
HANDICAP PARKING SPACE DETAIL
N.T.S.



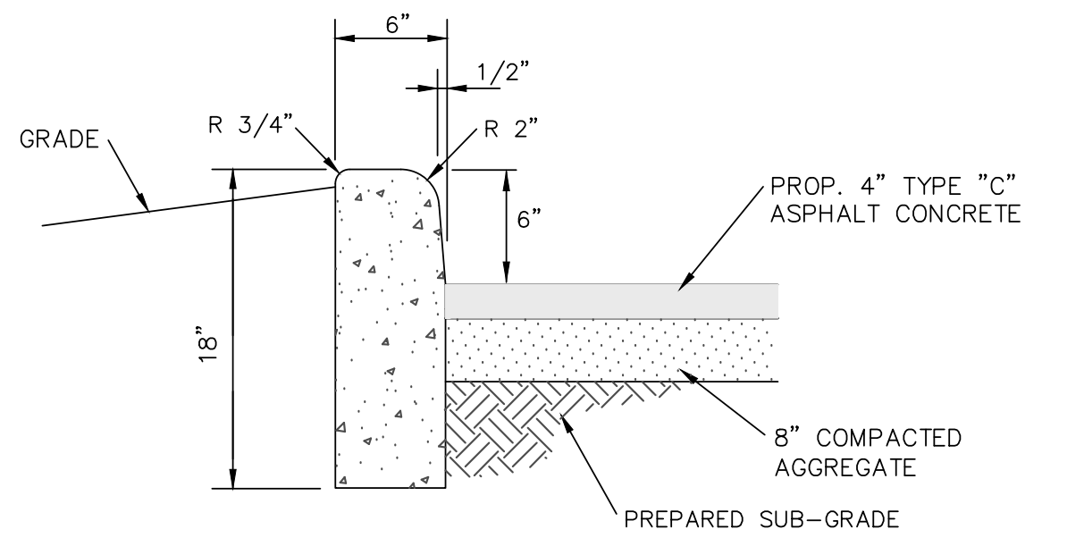
HANDICAP SYMBOL DETAIL
N.T.S.


4" TYPE "C" ASPHALT
8" COMPACTED AGGREGATE
PREPARED SUB-GRADE

TYPICAL ASPHALT PAVEMENT DETAIL
N.T.S.

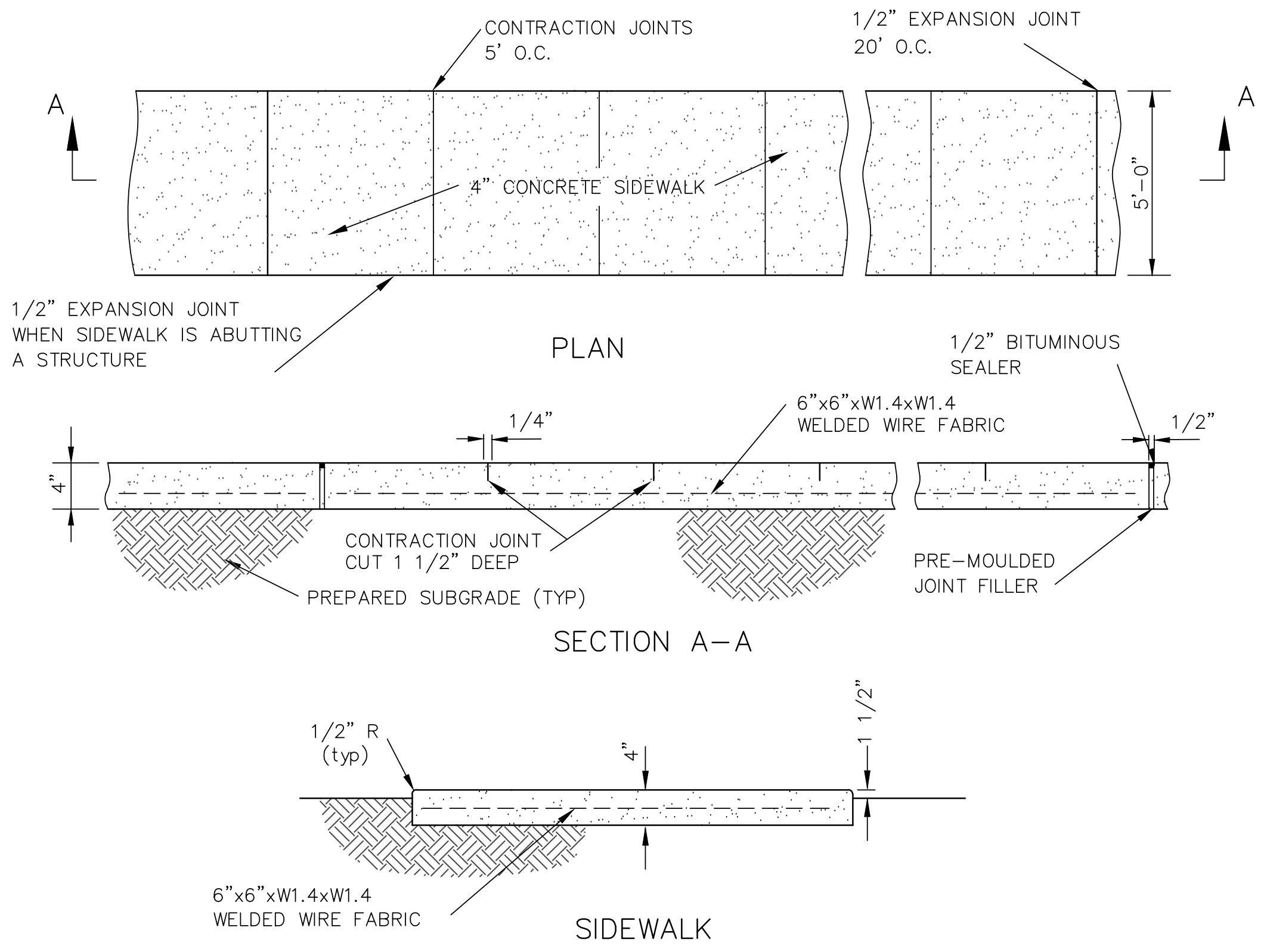

2" TYPE "C" ASPHALT
EXIST. ASPH.
EXISTING COMPACTED AGGREGATE FIELD VERIFY EX. DEPTH
PREPARED SUB-GRADE

ASPHALT OVERLAY DETAIL
N.T.S.

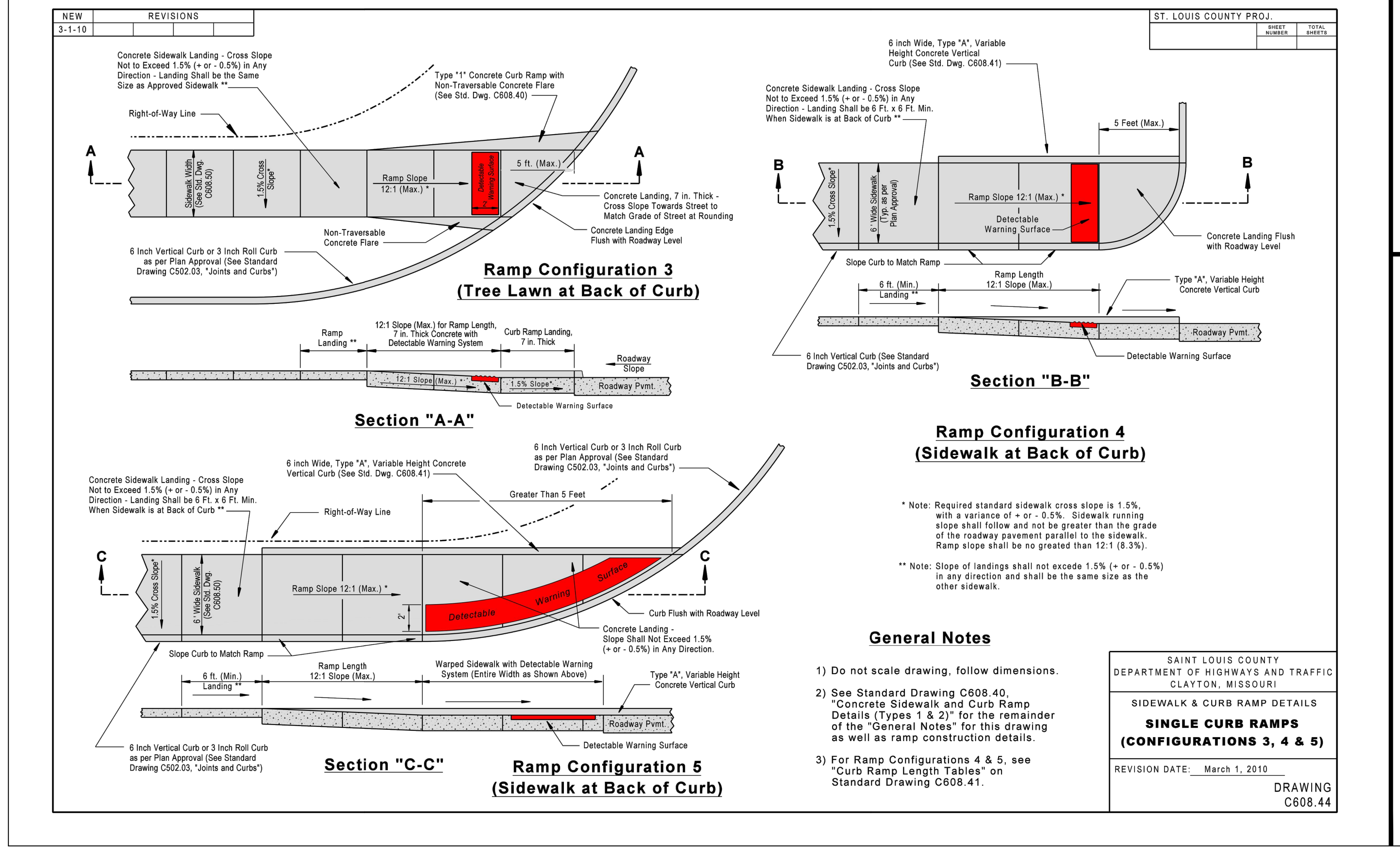

6"
1/2"
GRADE
R 3/4"
R 2"
6"
18"
PROP. 4" TYPE "C" ASPHALT CONCRETE
8" COMPACTED AGGREGATE
PREPARED SUB-GRADE

NOTES:
1. ALL CONCRETE SHALL BE MIN. FC.=3000 P.S.I.
2. ALL CONSTRUCTION MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY/COUNTY STANDARDS.
3. ANY UNSUITABLE SOIL (AS DETERMINED BY SOILS ENGINEER) BELOW STRUCTURE SHALL BE REMOVED AND REPLACED WITH SELECT EARTHEN MATERIAL COMPACTED IN PLACE WITH VIBRATORY TAMPER.
4. PROVIDE 1/2" EXPANSION JOINTS AT 20' CENTERS.

18" BARRIER CURB AND PAVEMENT DETAIL
N.T.S.


CONTRACTION JOINTS 5' O.C.
1/2" EXPANSION JOINT 20' O.C.
A
A
4" CONCRETE SIDEWALK
5'-0"
1/2" EXPANSION JOINT WHEN SIDEWALK IS ABUTTING A STRUCTURE
PLAN
1/2" BITUMINOUS SEALER
6"x6"xW1.4xW1.4 WELDED WIRE FABRIC
1/4"
1/2"
4"
CONTRACTION JOINT CUT 1 1/2" DEEP
PREPARED SUBGRADE (TYP)
PRE-MOULDED JOINT FILLER
SECTION A-A
1/2" R (typ)
4"
1 1/2"
6"x6"xW1.4xW1.4 WELDED WIRE FABRIC
SIDEWALK

DETAIL OF CONCRETE SIDEWALK
N.T.S.


NEW
REVISIONS
3-1-10
ST. LOUIS COUNTY PROJ.
SHEET NUMBER
TOTAL SHEETS
Concrete Sidewalk Landing - Cross Slope Not to Exceed 1.5% (+ or - 0.5%) in Any Direction - Landing Shall be the Same Size as Approved Sidewalk **
Right-of-Way Line
Type "1" Concrete Curb Ramp with Non-Traversable Concrete Flare (See Std. Dwg. C608.40)
A
A
Sidewalk Width (See Std. Dwg. C608.50)
1.5% Cross Slope*
Ramp Slope 12:1 (Max.) *
Detectable Warning Surface
2'
5 ft. (Max.)
Concrete Landing, 7 in. Thick - Cross Slope Towards Street to Match Grade of Street at Rounding
Concrete Landing Edge Flush with Roadway Level
Non-Traversable Concrete Flare
6 Inch Vertical Curb or 3 Inch Roll Curb as per Plan Approval (See Standard Drawing C502.03, "Joints and Curbs")
Ramp Configuration 3 (Tree Lawn at Back of Curb)
Ramp Landing **
12:1 Slope (Max.) for Ramp Length, 7 in. Thick Concrete with Detectable Warning System
Curb Ramp Landing, 7 in. Thick
Roadway Slope
12:1 Slope (Max.) *
1.5% Slope*
Roadway Pvmt.
Detectable Warning Surface
Section "A-A"
6 inch Wide, Type "A", Variable Height Concrete Vertical Curb (See Std. Dwg. C608.41)
Concrete Sidewalk Landing - Cross Slope Not to Exceed 1.5% (+ or - 0.5%) in Any Direction - Landing Shall be 6 Ft. x 6 Ft. Min. When Sidewalk is at Back of Curb **
5 Feet (Max.)
B
B
1.5% Cross Slope*
6' Wide Sidewalk (Typ. as per Plan Approval)
Ramp Slope 12:1 (Max.) *
Detectable Warning Surface
Concrete Landing Flush with Roadway Level
Slope Curb to Match Ramp
6 ft. (Min.) Landing **
Ramp Length 12:1 Slope (Max.)
Type "A", Variable Height Concrete Vertical Curb
Roadway Pvmt.
Detectable Warning Surface
6 Inch Vertical Curb (See Standard Drawing C502.03, "Joints and Curbs")
Section "B-B"
Ramp Configuration 4 (Sidewalk at Back of Curb)
Concrete Sidewalk Landing - Cross Slope Not to Exceed 1.5% (+ or - 0.5%) in Any Direction - Landing Shall be 6 Ft. x 6 Ft. Min. When Sidewalk is at Back of Curb **
Right-of-Way Line
6 inch Wide, Type "A", Variable Height Concrete Vertical Curb (See Std. Dwg. C608.41)
6 Inch Vertical Curb or 3 Inch Roll Curb as per Plan Approval (See Standard Drawing C502.03, "Joints and Curbs")
Greater Than 5 Feet
C
C
1.5% Cross Slope*
6' Wide Sidewalk (See Std. Dwg. C608.50)
Ramp Slope 12:1 (Max.) *
2'
Detectable Warning Surface
Curb Flush with Roadway Level
Concrete Landing - Slope Shall Not Exceed 1.5% (+ or - 0.5%) in Any Direction.
Slope Curb to Match Ramp
6 ft. (Min.) Landing **
Ramp Length 12:1 Slope (Max.)
Warped Sidewalk with Detectable Warning System (Entire Width as Shown Above)
Type "A", Variable Height Concrete Vertical Curb
Roadway Pvmt.
Detectable Warning Surface
6 Inch Vertical Curb or 3 Inch Roll Curb as per Plan Approval (See Standard Drawing C502.03, "Joints and Curbs")
Section "C-C"
Ramp Configuration 5 (Sidewalk at Back of Curb)

* Note: Required standard sidewalk cross slope is 1.5%, with a variance of + or - 0.5%. Sidewalk running slope shall follow and not be greater than the grade of the roadway pavement parallel to the sidewalk. Ramp slope shall be no greated than 12:1 (8.3%).

** Note: Slope of landings shall not excede 1.5% (+ or - 0.5%) in any direction and shall be the same size as the other sidewalk.

General Notes

1) Do not scale drawing, follow dimensions.

2) See Standard Drawing C608.40, "Concrete Sidewalk and Curb Ramp Details (Types 1 & 2)" for the remainder of the "General Notes" for this drawing as well as ramp construction details.

3) For Ramp Configurations 4 & 5, see "Curb Ramp Length Tables" on Standard Drawing C608.41.

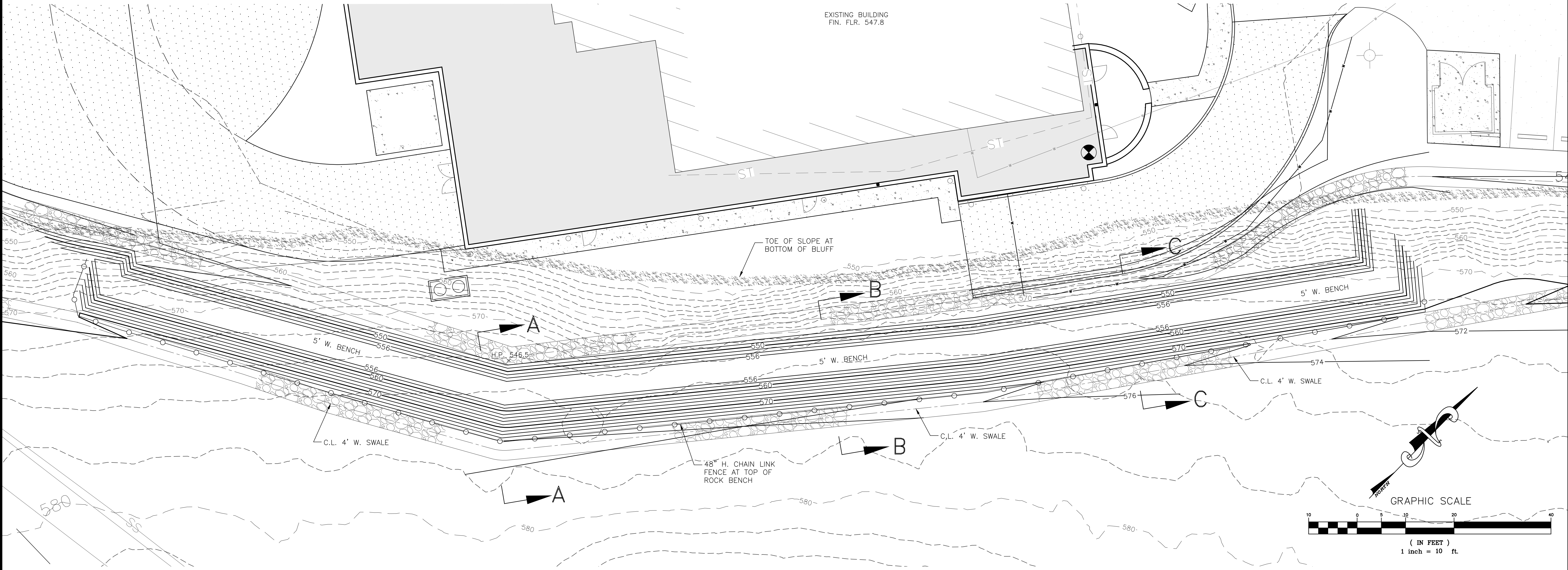
SAINT LOUIS COUNTY
DEPARTMENT OF HIGHWAYS AND TRAFFIC
CLAYTON, MISSOURI

SIDEWALK & CURB RAMP DETAILS

SINGLE CURB RAMPS (CONFIGURATIONS 3, 4 & 5)

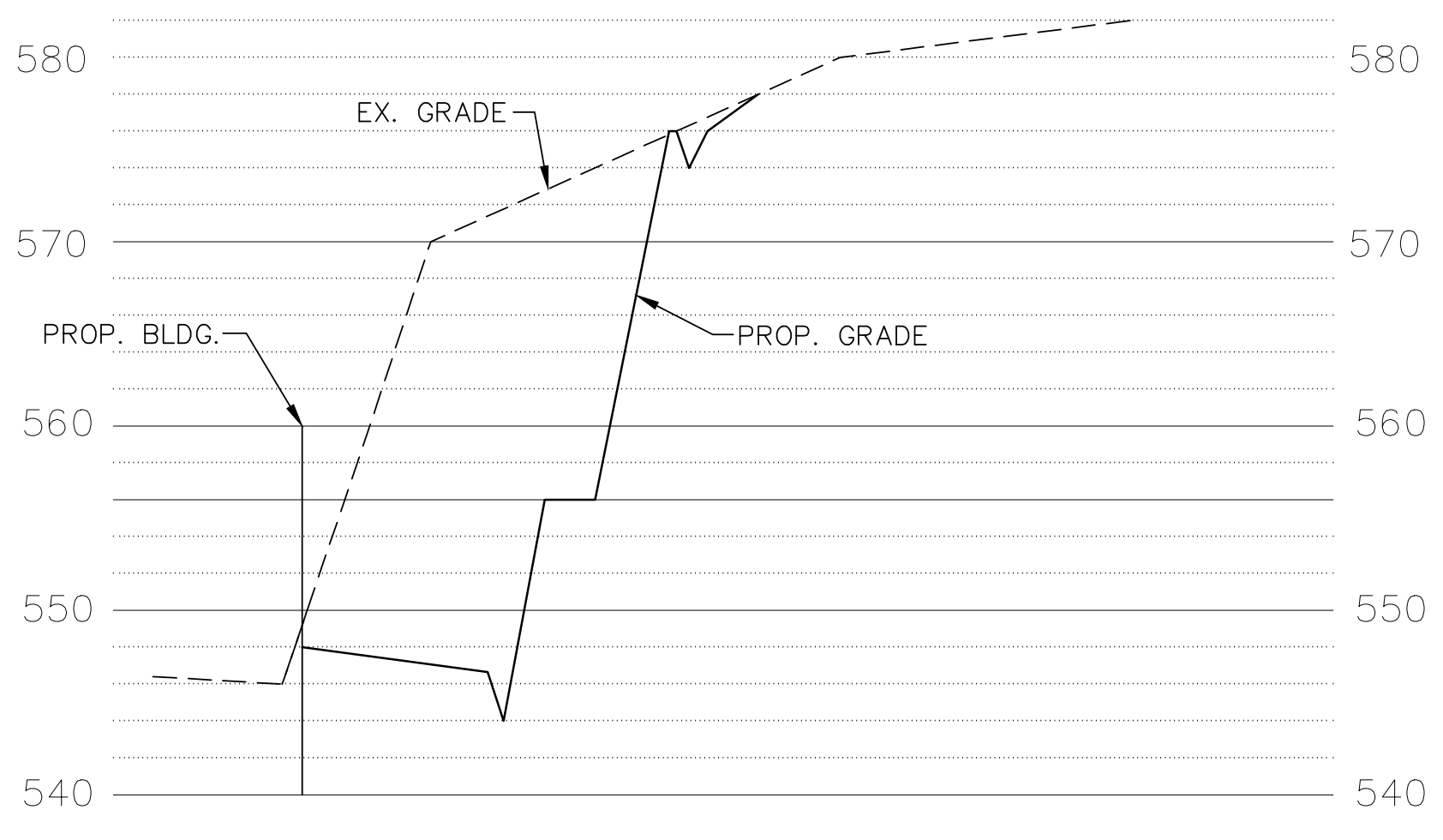
REVISION DATE: March 1, 2010

DRAWING
C608.44

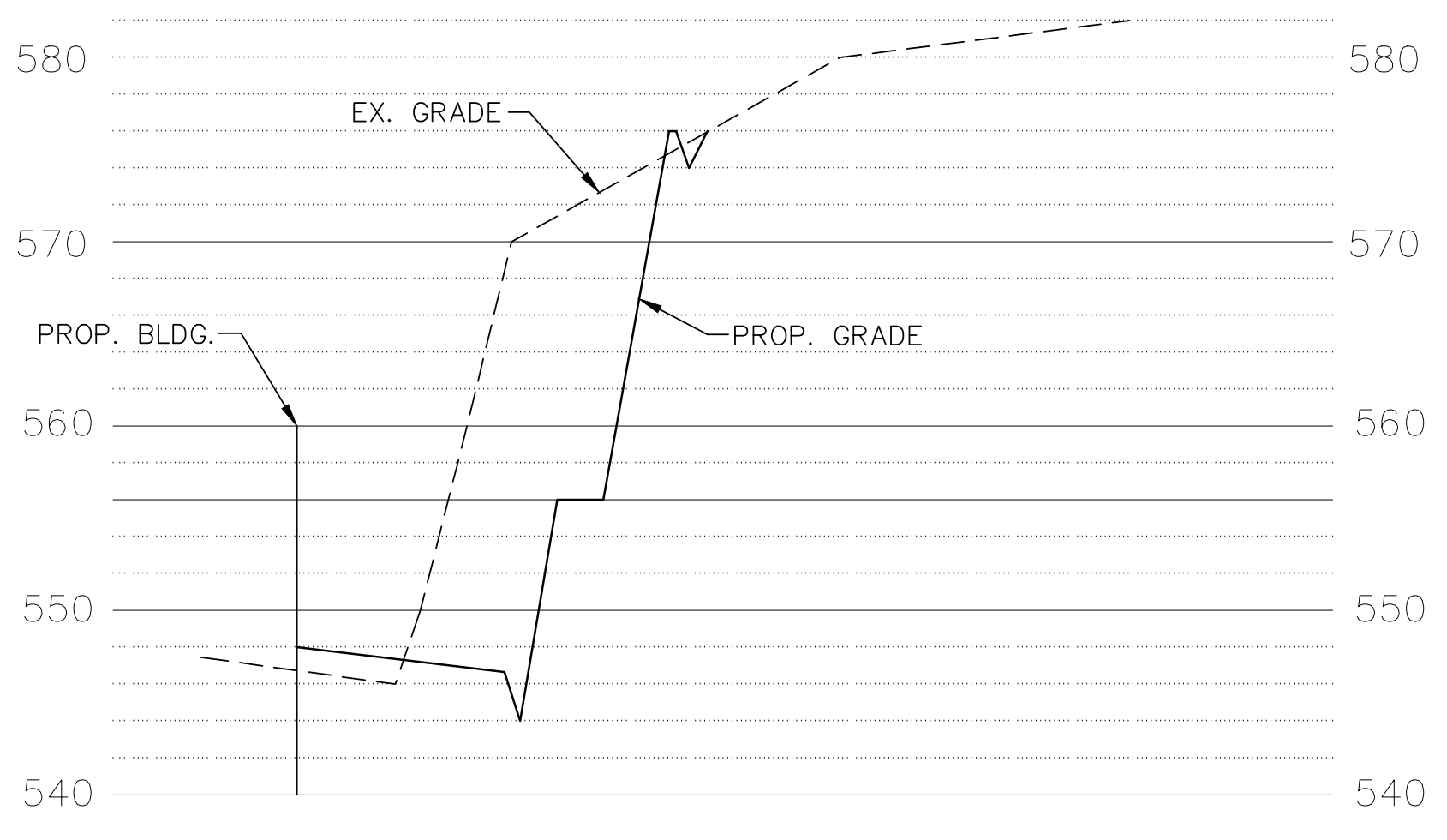

EXISTING BUILDING FIN. FLR. 547.8
ST
ST
TOE OF SLOPE AT BOTTOM OF BLUFF
550
560
570
556
A
A
B
B
C
C
5' W. BENCH
5' W. BENCH
5' W. BENCH
H.P. 546.5
C.L. 4' W. SWALE
C.L. 4' W. SWALE
C.L. 4' W. SWALE
48" H. CHAIN LINK FENCE AT TOP OF ROCK BENCH
572
574
576
580
SS
NORTH
GRAPHIC SCALE
10
0
5
10
20
40
(IN FEET)
1 inch = 10 ft.

ENLARGED PARTIAL GRADING PLAN - ROCK BENCH AREA
1" = 10'

NOTE: SEE GRADING PLAN ON SHEET S3.2 FOR BALANCE OF INFORMATION.

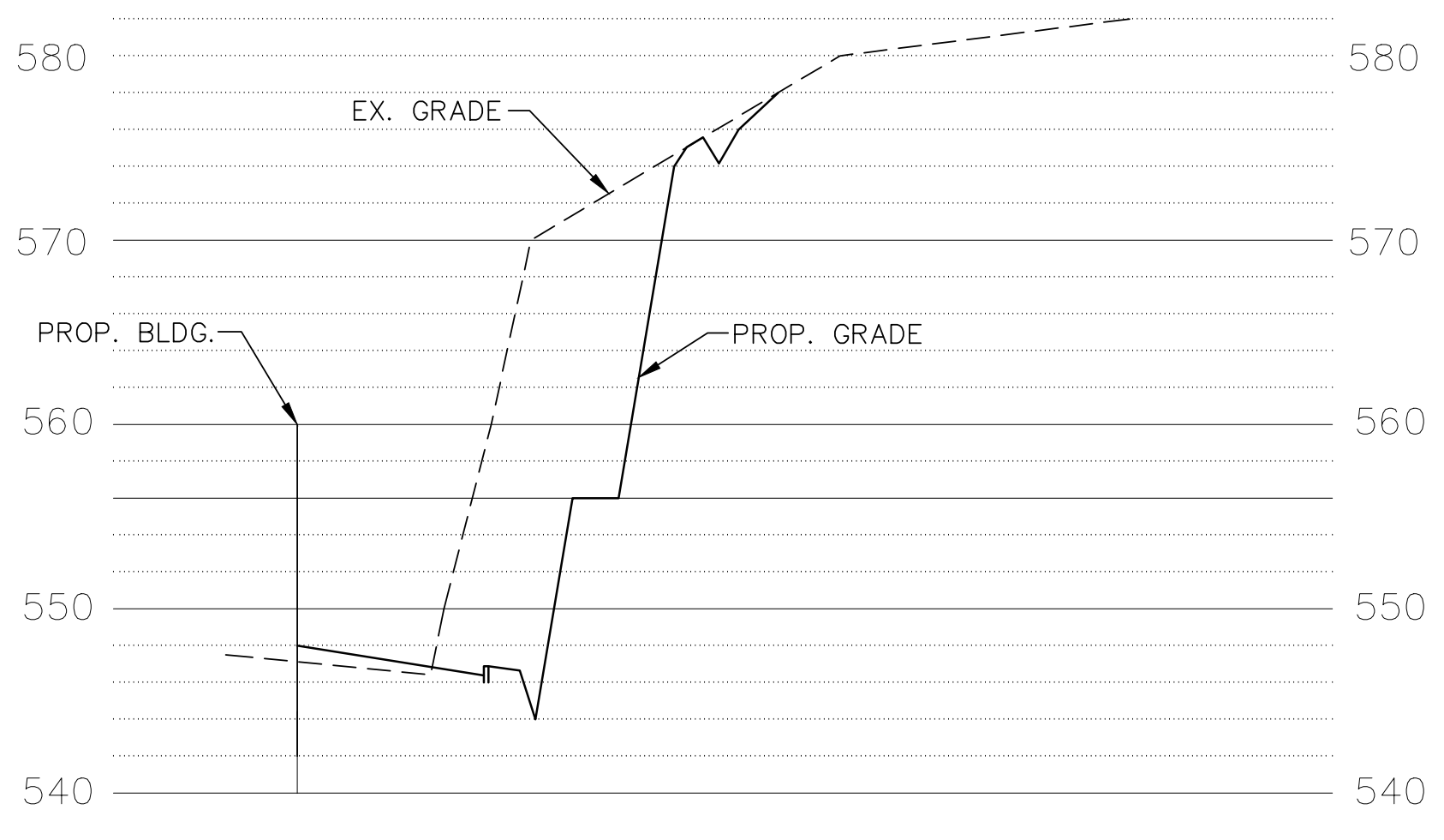

580
570
560
550
540
EX. GRADE
PROP. BLDG.
PROP. GRADE

SECTION A-A


580
570
560
550
540
EX. GRADE
PROP. BLDG.
PROP. GRADE

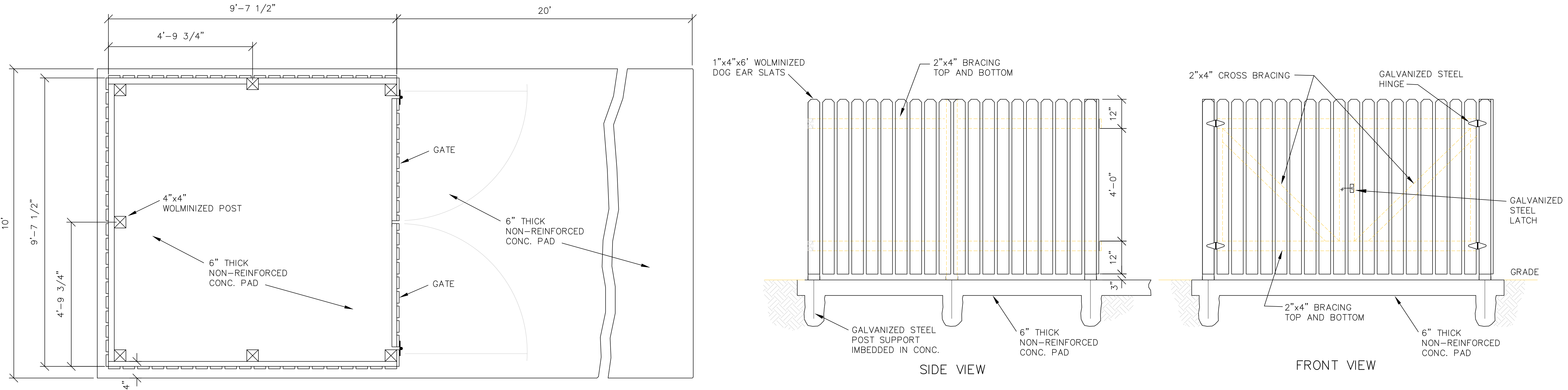
SECTION B-B

NOTE: TOTAL ROCK CUT VOLUME = 3750 CUBIC YARDS.


580
570
560
550
540
EX. GRADE
PROP. BLDG.
PROP. GRADE

SECTION C-C

ROCK BENCH SECTIONS
SCALE: HORIZ. 1" = 20'
VERT. 1" = 10'

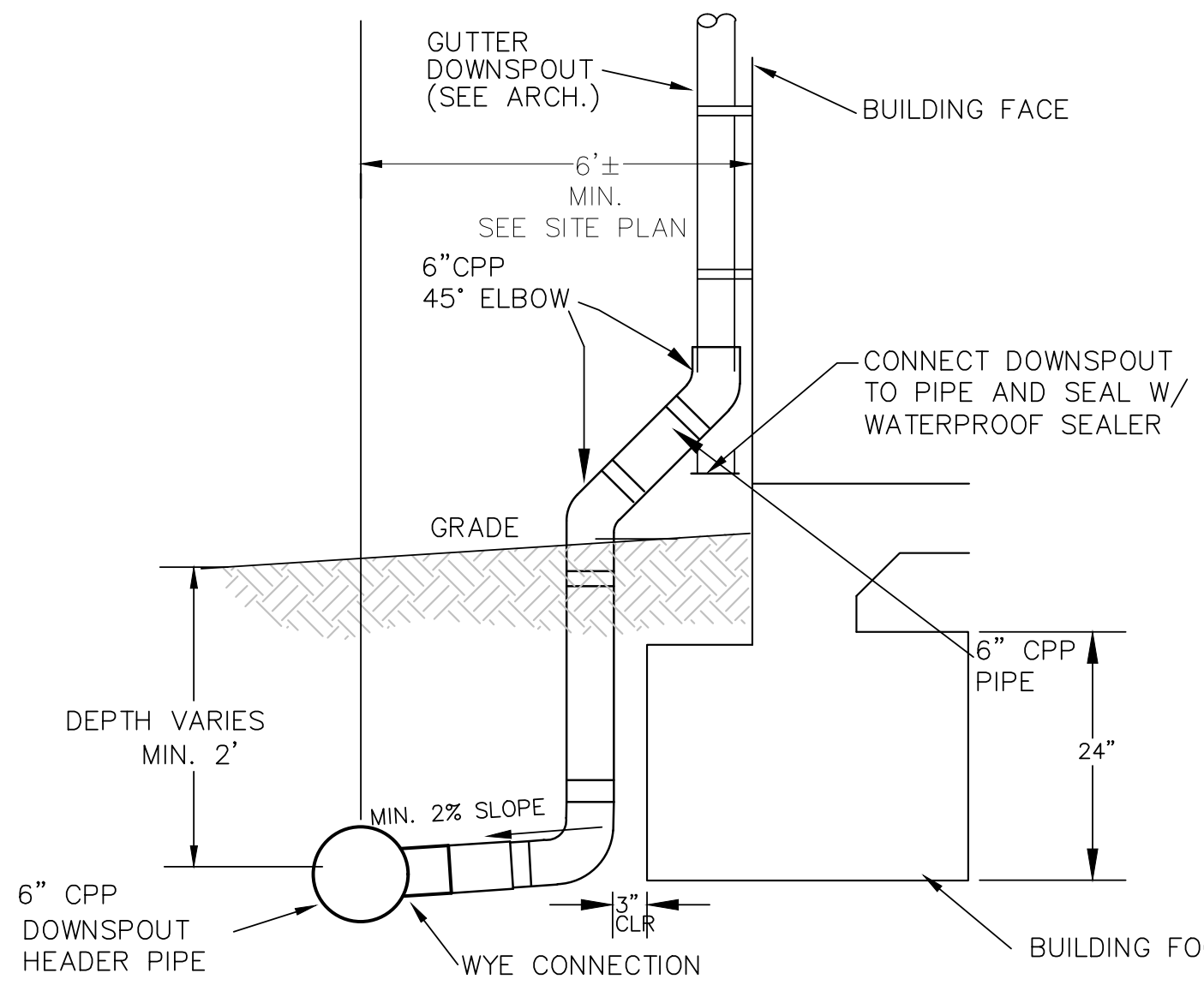

9'-7 1/2"
20'
4'-9 3/4"
10'
9'-7 1/2"
4'-9 3/4"
3 3/4"
4"x4" WOLMINIZED POST
6" THICK NON-REINFORCED CONC. PAD
GATE
GATE
6" THICK NON-REINFORCED CONC. PAD
1"x4"x6' WOLMINIZED DOG EAR SLATS
2"x4" BRACING TOP AND BOTTOM
12"
4'-0"
12"
3"
GALVANIZED STEEL POST SUPPORT IMBEDDED IN CONC.
6" THICK NON-REINFORCED CONC. PAD
2"x4" CROSS BRACING
GALVANIZED STEEL HINGE
GALVANIZED STEEL LATCH
GRADE
2"x4" BRACING TOP AND BOTTOM
6" THICK NON-REINFORCED CONC. PAD

PLAN VIEW

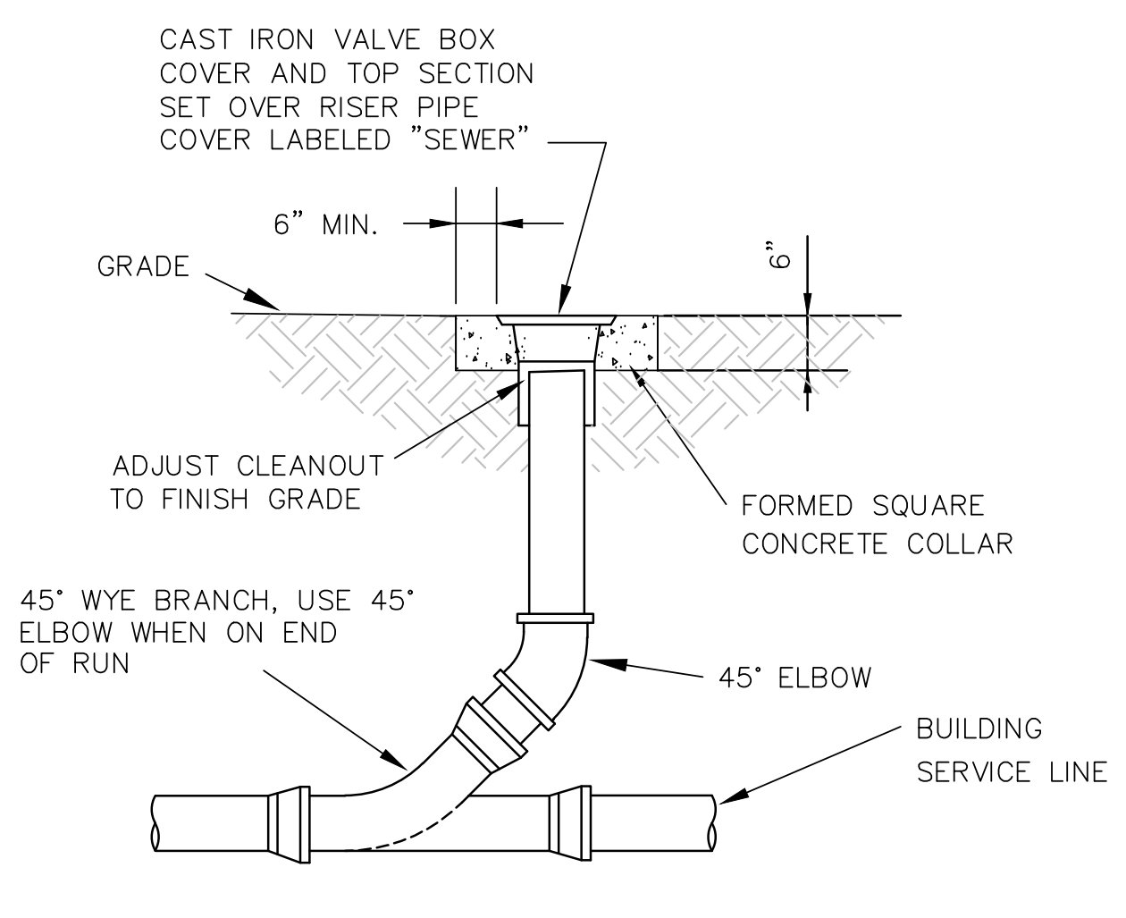
SIDE VIEW

FRONT VIEW

DUMPSTER ENCLOSURE

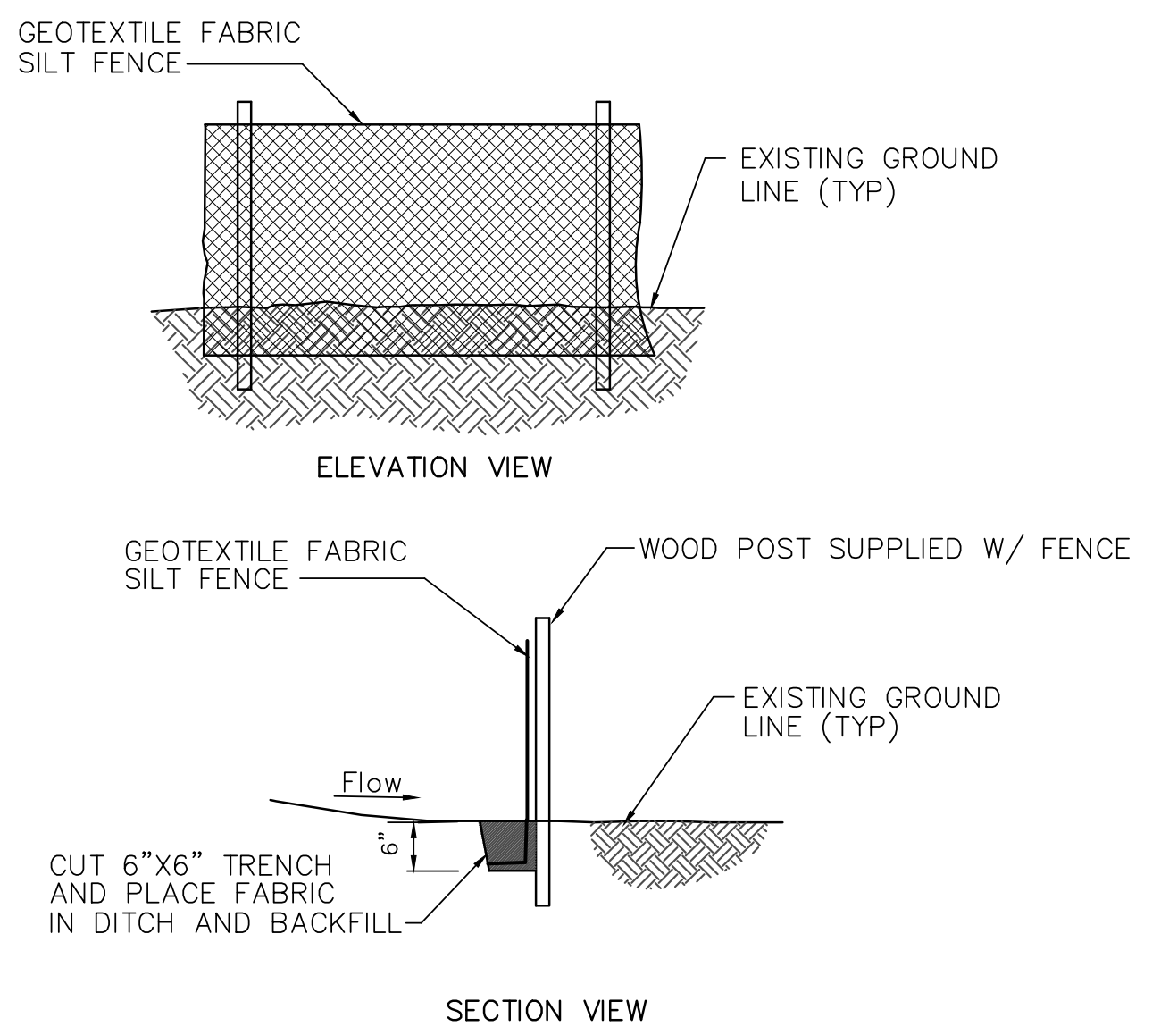

GUTTER DOWNSPOUT (SEE ARCH.)
BUILDING FACE
6'± MIN. SEE SITE PLAN
6"CPP 45° ELBOW
CONNECT DOWNSPOUT TO PIPE AND SEAL W/ WATERPROOF SEALER
GRADE
6" CPP PIPE
24"
DEPTH VARIES MIN. 2'
MIN. 2% SLOPE
6" CPP DOWNSPOUT HEADER PIPE
WYE CONNECTION
3" CLR
BUILDING FOOTING

DOWNSPOUT CONNECTION
N.T.S.


CAST IRON VALVE BOX COVER AND TOP SECTION SET OVER RISER PIPE COVER LABELED "SEWER"
6" MIN.
GRADE
6"
ADJUST CLEANOUT TO FINISH GRADE
FORMED SQUARE CONCRETE COLLAR
45° WYE BRANCH, USE 45° ELBOW WHEN ON END OF RUN
45° ELBOW
BUILDING SERVICE LINE

SEWER CLEANOUT DETAIL
N.T.S.

NOTE: WHEN JOINING TWO OR MORE SILT FENCES TOGETHER TIE THE TWO END POSTS TOGETHER WITH EXISTING NYLON CORD.


GEOTEXTILE FABRIC SILT FENCE
EXISTING GROUND LINE (TYP)
GEOTEXTILE FABRIC SILT FENCE
WOOD POST SUPPLIED W/ FENCE
EXISTING GROUND LINE (TYP)
Flow
6"
CUT 6"X6" TRENCH AND PLACE FABRIC IN DITCH AND BACKFILL

ELEVATION VIEW

SECTION VIEW

SILTATION CONTROL SILTFENCE DETAIL
N.T.S.

SILTATION MAINTENANCE NOTES:

1. *SILTATION CONTROL BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.*
2. *CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES OR FENCE.*
3. *NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES OR FENCE SHALL BE ACCOMPLISHED PROMPTLY.*
4. *SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REAHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.*
5. *ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER SILTATION CONTROL BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.*
6. *ALL EXPOSED SLOPES WHETHER TEMPORARY OR PERMANENT SHALL BE SEEDED PER SPECIFICATIONS IMMEDIATELY UPON COMPLETION.*
7. *ALL FLOWLINES OF DIVERSION DITCHES AND SWALES SHALL BE PROTECTED AS NEEDED.*

REVISION		
NO.	DESCRIPTION	DATE

ENGINEER SEAL
3/22/19

VonArx Engineering

10785 BUSINESS 21, SUITE A
HILLSBORO, MISSOURI 63050
dvonarx@vonarxengineering.com
CERTIFICATE OF AUTHORITY 0975
OFFICE: (636) 797-8425

Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

CIVIL - ENLARGED GRADING PLAN AND CONSTRUCTION DETAILS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

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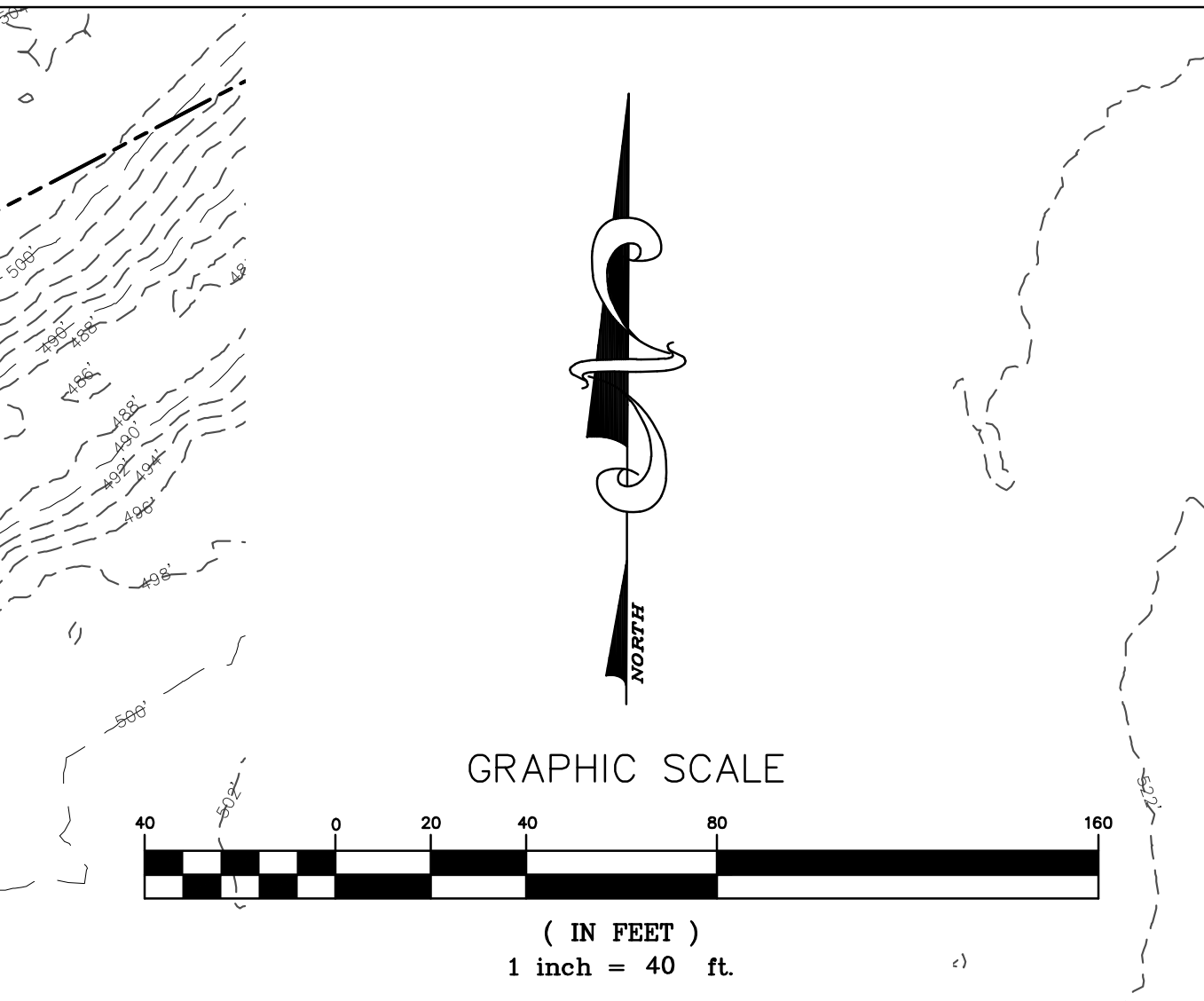
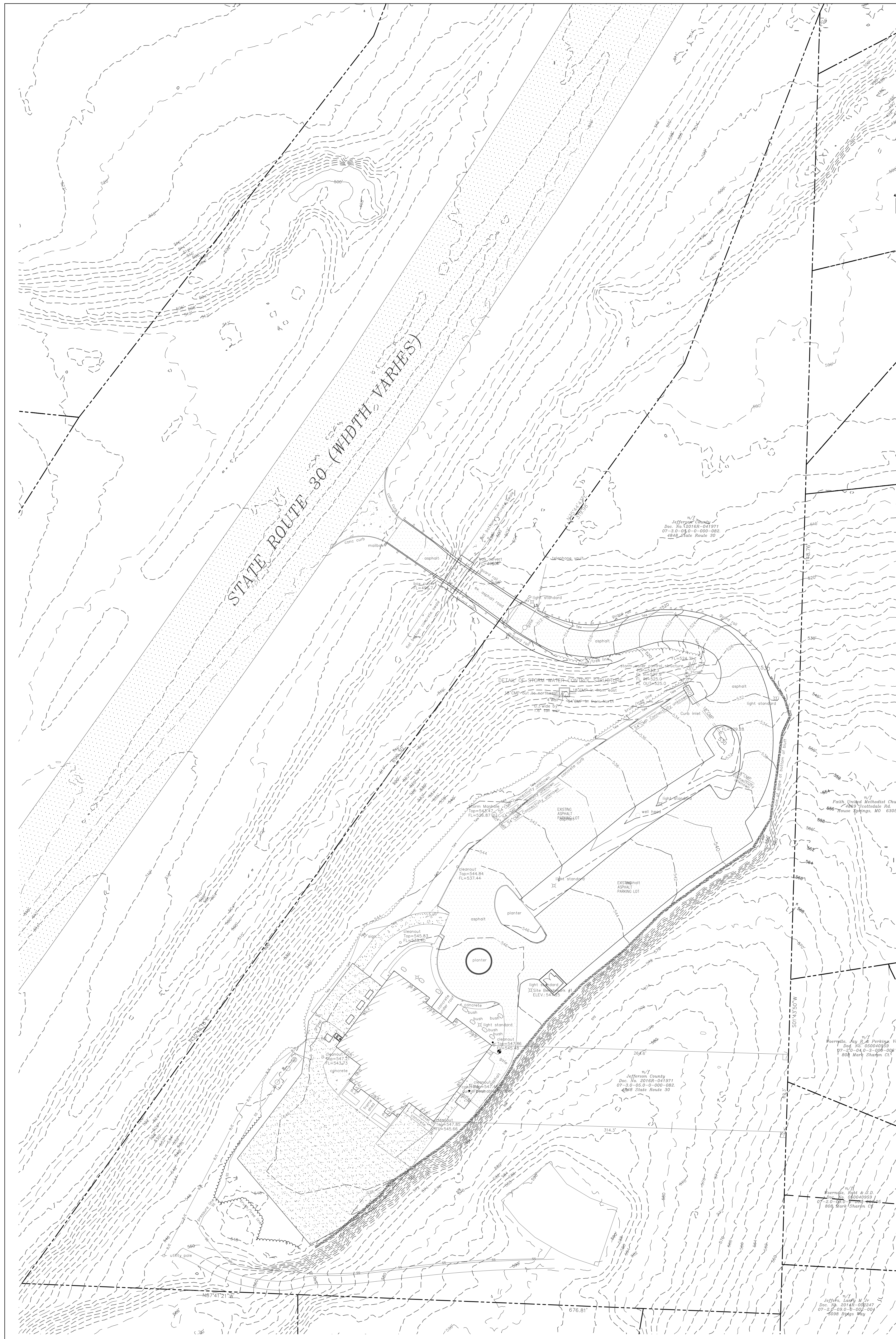
DRAWN BY: E. Fletcher
CHECKED BY: D. Vonarx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

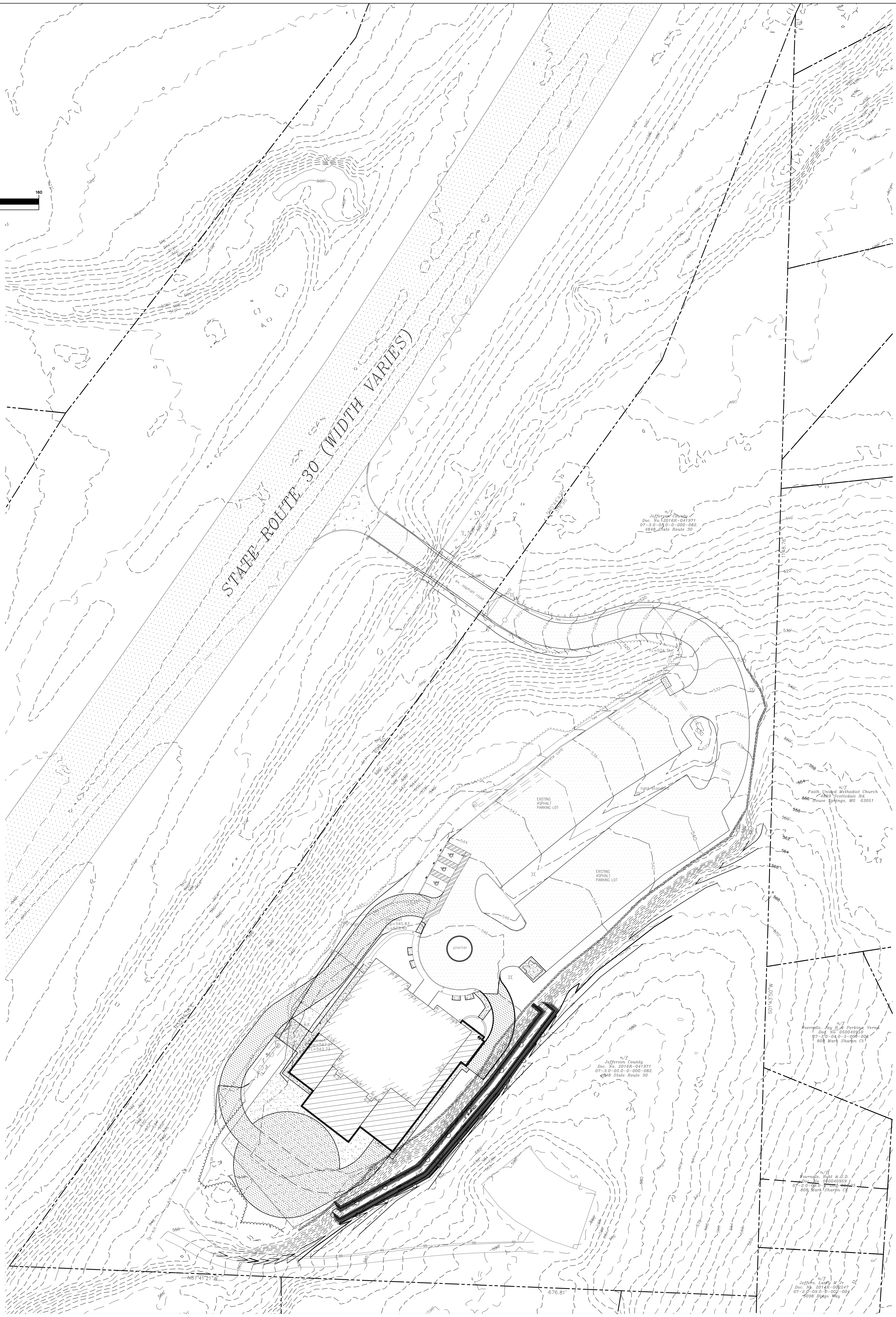
C5.0


GRAPHIC SCALE
40
0
20
40
80
160
(IN FEET)
1 inch = 40 ft.


STATE ROUTE 30 (WIDTH VARIES)
EXISTING ASPHALT PARKING LOT
light standard
asphalt
planter
n/f Jefferson County Doc. No. 2016R-041971 07-3.0-05.0-0-000-082. 4848 State Route 30
n/f Faith United Methodist Church 4869 Scottsdale Rd. House Springs, MO 63051
n/f Woerndle, Jay R & Perkins, Verna Doc. No. 050040959 07-2.0-04.0-3-009-006 808 Mark Sharon Ct.
n/f Woerndle, Robt & J.D. Doc. No. 050040959 07-2.0-09.0-0-002-004.05 808 Mark Sharon Ct.
n/f Jeffers, Larry M Jr Doc. No. 2014R-002247 07-2.0-09.0-0-002-004 5098 Bings Way
676.81'

PRE-DEVELOPMENT DRAINAGE AREA PLAN

1"=40'


STATE ROUTE 30 (WIDTH VARIES)
EXISTING ASPHALT PARKING LOT
light standard
FL=524.31
Tele
1148.76'
S01°43'50"W
n/f Jefferson County Doc. No. 2016R-041971 07-3.0-05.0-0-000-082. 4848 State Route 30
n/f Faith United Methodist Church 4869 Scottsdale Rd. House Springs, MO 63051
n/f Woerndle, Jay R & Perkins, Verna Doc. No. 050040959 07-2.0-04.0-3-009-006 808 Mark Sharon Ct.
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n/f Jeffers, Larry M Jr Doc. No. 2014R-002247 07-2.0-09.0-0-002-004 5098 Bings Way
676.81'

POST-DEVELOPMENT DRAINAGE AREA PLAN

1"=40'

REVISION		
NO.	DESCRIPTION	DATE

ENGINEER SEAL

DAVID L. VONARX NUMBER E-26647

3/22/19

VonArx Engineering

10785 BUSINESS 21, SUITE A
HILLSBORO, MISSOURI 63050
dvonarx@vonarxengineering.com
CERTIFICATE OF AUTHORITY 0975
OFFICE: (636) 797-8425

Jefferson County Animal Care Facility

4848 STATE ROUTE 30, HOUSE SPRINGS, MO

DRAWN BY: E. Fletcher
CHECKED BY: D. Vonarx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

CIVIL - DRAINAGE AREAS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

C6.0

GENERAL NOTES

1. THE STRUCTURAL DOCUMENT (DRAWINGS & SPECIFICATIONS) - MUST NOT BE USED WITHOUT THE CONSTRUCTION DOCUMENT OF OTHER DISCIPLINES. COORDINATION BETWEEN STRUCTURAL DOCUMENT AND OTHER DISCIPLINE'S DOCUMENT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTOR RESPONSIBLE FOR THE WORK.
2. EXISTING CONDITIONS SHOWN ON THE STRUCTURAL DOCUMENT ARE CONCEPTUAL & MUST BE VERIFIED IN THE FIELD BY GENERAL CONTRACTOR PRIOR TO DETAILING, FABRICATION, & CONSTRUCTION OF RELATED WORK.
3. ALL ITEMS REQUIRED BY OTHER DISCIPLINE'S WORK & IMPACTING THE STRUCTURAL WORK SUCH AS CASTING OF ANCHORS, SLEEVES, CONDUITS, OPENINGS, SUPPORTS FOR & BRACING FOR NON-STRUCTURAL COMPONENT SHALL BE IDENTIFIED BY SUBCONTRACTORS RESPONSIBLE FOR SUCH WORK & SUBMITTED WITH DETAILS FOR STRUCTURAL ENGINEER'S APPROVAL.
4. THE SEOR IS NOT RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCE OF WORK. ALL TEMPORARY BRACING, SHORING, COMPLIANCE WITH OSHA REGULATIONS & SOILS REPORT AND GENERAL STABILITY OF INDIVIDUAL STRUCTURAL COMPONENT DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
5. WHERE SPECIFIC DETAILS ARE NOT IDENTIFIED ON THE STRUCTURAL PLANS, REFER TO TYPICAL DETAILS AND UTILIZE INDUSTRY STANDARD PRACTICE AS IDENTIFIED IN SPECIFIED CODES, REGULATIONS, AND STANDARDS.

DESIGN CRITERIA

BUILDING CODE:	ASCE 7-05

LIVE LOADS

ROOF	0 TO 200 S.F.:	20 PSF
	200 TO 600 S.F.:	24-0.02 AREA BUT NOT LESS THAN 12 PSF
	OVER 600 S.F.:	12 PSF

FLOOR	100 PSF
STAIRS & EXITWAYS	100 PSF
BALCONY	0 PSF
MECHANICAL	N/A
PARTITIONS	15 PSF

DEAD LOADS

FLOOR	15 PSF
ROOF	15 PSF

ROOF SNOW LOADS

DESIGN ROOF SNOW LOAD	20 PSF
FLAT ROOF SNOW LOAD, P□	20 PSF
SNOW EXPOSURE FACTOR, Ce	1.00
IMPORTANCE FACTOR, □	1.00
THERMAL FACTOR, Ct	1.00
GROUND SNOW LOAD, P□	20 PSF
RAIN ON SNOW SURCHARGE	0 PSF
SLOPED ROOF FACTOR, C□	1.00

WIND DESIGN DATA

BASIC WIND SPEED	90 MPH
MEAN ROOF HT □□□	34 FEET
BUILDING CATEGORY	II
IMPORTANCE FACTOR	1.00
EXPOSURE CATEGORY	B
ENCLOSURE CLASSIF.	ENCLOSED BUILDIN
INTERNAL PRESSURE COEF.	□/- 0.18
DIRECTIONALITY (Kd)	0.85

EARTHQUAKE DESIGN DATA

OCCUPANCY CATEGORY	II
IMPORTANCE FACTOR, I	1.00
MAPPED SPECTRAL RESPONSE, S□	56.00□ □
ACCELERATIONS, S1	16.00□ □
SITE CLASS	D
SPECTRAL RESPONSE COEF., Sd□	0.505
Sd1	0.230
SEISMIC DESIGN CATEGORY	D
BASIC STRUCTURAL SYSTEM	BEARING WALL
SEISMIC RESISTING SYSTEM	LIGHT FRAME WALLS □/SHEAR PANELS STEEL FRAME & METAL STUD WALLS
DESIGN BASE SHEAR, □	0.078W
SEISMIC RESPONSE COEF., C□	0.078
RESPONSE MODIFICATION FACTOR, R	6.5
ANALYSIS PROCEDURE	EQUIVALENT LATERAL-FORCE ANALYSIS

EXISTING CONSTRUCTION:

1. ALL DIMENSIONS AND ELEVATIONS TO EXISTING CONSTRUCTION ARE FOR REFERENCE ONLY. FIELD VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO PREPARING SHOP DRAWINGS, FABRICATING MEMBERS (STRUCTURAL ITEMS), AND INSTALLATION.
2. DO NOT CUT ANY REINFORCING STEEL WHILE DRILLING INTO EXISTING CONCRETE.
3. PRIOR TO SUBMITTING ANY SHOP DRAWINGS, PROVIDE CERTIFICATION FROM LAND SURVEYOR REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED THAT DIMENSIONS BETWEEN NEW CONSTRUCTION AND EXISTING CONSTRUCTION HAVE BEEN SURVEYED AND FORWARDED TO SHOP DRAWERS DETAILERS.
4. PRIOR TO PREPARING SHOP DRAWINGS, EXPOSE ALL FOUNDATIONS AND BUILDING FRAMING IN THE VICINITY OF NEW CONSTRUCTION AND SUBMIT LAYOUT TO ENGINEER OF RECORD.
5. NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES OF EXISTING CONDITIONS WITH THE STRUCTURAL DRAWINGS.

DEFERRED SUBMITTALS:

THE FOLLOWING PROJECT COMPONENTS REQUIRE DESIGN TO BE PROVIDED BY A QUALIFIED PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF THE PROJECT:

A. CONNECTION DESIGN FOR BRACED FRAMES, MOMENT FRAMES, COLLECTOR BEAMS AND TYPICAL CONNECTIONS.
B. STEEL STAIR CALCULATIONS AND DETAILS.
C. STRUCTURAL LIGHT GAUGE STEEL FRAMING CALCULATIONS AND DETAILS.

MISCELLANOUS:

1. STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
2. NO OPENINGS SHALL BE MADE IN ANY STRUCTURE MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
3. NO CHANGE IN SIZE OR DIMENSION OF STRUCTURAL MEMBERS SHALL BE MADE WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT.
4. OPENINGS 1'-4" AND LESS ON A SIDE ARE GENERALLY NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SUCH OPENINGS.
5. THE CONTRACTOR RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
6. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS A RESULT OF THE CONTRACOTRS CONSTRUCTION METHODS AND/OR SEQUENCES.
7. UNLESS OTHERWISE NOTED, FIRE PROOFING METHODS AND MATERIALS FOR STRUCTURAL MEMBERS ARE NOT SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATING REQUIREMENTS, FIRE PROOFING METHODS AND MATERIALS.
8. DO NO SCALE THESE DRAWINGS, USE DIMENSIONS.
9. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. EXPANSION JOINTS SHOWN ON THE DRAWINGS H□E BEEN DESIGNED TO ACCOMMODATE ANTICIPATED THERMAL MOVEMENT AFTER THE BUILDING IS COMPLETE.
10. THE CONTRACTOR SHALL INFORM THE ARCHITECT IN WRITING AF ANY DEVIATION FROM THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOT BE RELIEVED OF THE RESPONSIBILITY FOR SUCH DEVIATION BY THE SRCHITECT'S APPROVAL OF SHOP DRAWINGS, PRODUCT DATA, ETC., UNLESS HE HAS SPECIFICALLY INFORMED THE ARCHITECT OF SUCH DEVIATION AT THE TIME OF SUBMISSION, AND THE ARCHITECT HAS GIVEN WRITTTEN APPROVAL TO THE SPECIFIC DEVIATION.
11. ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS, OR AMBIGUITIES, IN THE PLANS AND SPECIFICATIONS SHALL BE BROUGH TO THE ATTENTION OF THE ARCHITECT. PLANS AND/OR SPECIFICATIONS WILL BE CORRECTED, OR WRITTEN INTERPRETTION OF THE ALLEGED DEFICIENCY, OMISSION, CONTRADICTION OR AMBIGUITY WILL BE MADE BY THE ARCHITECT BEFORE THE AFFECTED WORK PROCEEDS.
12. CHECK ALL DIMENSIONS AGAINST REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. FIELD VERIFY DIMENSIONS RELATING TO EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND FABRICATION.
13. WHERE DIMENSIONS OR WEIGHTS OF EQUIPMENT OR SYSTEMS ARE VARIABLE FROM MANUFACTURER TO MANUFACTURER VERIFY DIMENSIONS AND WEIGHTS SHOWN ON DRAWINGS WITH SELECTED MANFACTURER PRIOR TO ORDERING MATERIALS. NOTIFY STRUCTURAL ENGINEER OF DISCREPANCIES.
14. DO NOT PLACE EQUIPMENT WHEN SHIPPING OR OPERATING WEIGHT EXCEEDS WEIGHT INDICATED ON STRUCTURAL
15. DRAWINGS NO MODIFICATION, ALTERATION OR REPAIR SHALL BE MADE WITHOUT PRIOR REVIEW BY STRUCTURAL ENGINEER REGISTERED IN STATE WHERE PROJECT IS LOCATED AND EMPLOYED BY CONTRACTORS.
16. VERIFY ELEVATOR AND ESCALATOR PIT DIMENSION, LOCATIONS, LOADING AND DETAILS WITH SUPPLIERS PRIOR TO THE FABRICATION AND/OR INSTALLATION OF ANY MATERIAL.

SPECIAL INSPECTION:

THE FOLLOWING STRUCTURAL ELEMENTS OF CONSTRUCTION SHALL REQUIRE SPECIAL INSPECTION PER IBC SECTION 1704. OWNER TO FURNISH INSPECTION UNLESS INSTRUCTED OTHERWISE BY THE CONSTRUCTION CONTRACT.

NOTES:

1. SPECIAL INSPECTION IS NOT A SUBSTITUTE FOR INSPECTION BY A COUNTY INSPECTOR. SPECIALLY INSPECTED WORK WHICH IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE COUNTY INSPECTOR IS SUBJECT TO REMOVAL OR EXPOSURE.
2. THE SPECIAL INSPECTORS MUST BE CERTIFIED BY THE COUNTY TO PERFORM THE TYPES OF INSPECTION SPECIFIED.
3. IT IS THE RESPOMSIBILITY OF THE CONTRACTOR TO INFORM THE SPECIAL INSPECTOR OR INSPECTION AGENCY AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION. ANY WORK PERFORMED WITHOUT REQUIRED SPECIAL INSPECTION IS SUBJECT TO REMOVAL.
4. SUBMIT WRITTEN REPORTS WITHIN TWO DAYS OF TESTING TO ENGINEER OF RECORD AND BUILDING OFFICIAL.

LIGHT GAGE FRAMING:

1. DESIGN AND FABRICATION PER LATEST AISI SPECIFICATION FOR COLD-FORMED STEEL STRUCTURAL MEMBERS.
2. SCREWS TO BE #10 SELF DRILLING UNLESS NOTED OTHERWISE.
3. WELDING ELECTRODES: E70XX SELF SHIELDED FLUX-CORED WIRE PER LATEST AWS SPECIFICATIONS FOR WELDING OF SHEET STEEL.

WOOD FRAMING (ROUGH CARPENTRY, WOOD RPODUCTS AND WOOD TRUSSES)

A. DESIGN CODES:
    1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS), LATEST ADOPTION.
    2. INSTALL ROUGH CARPENTRY WORK TO COMPLY WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) TIMBER CONSTRUCTION (TC) MANUAL, LATEST ADOPTION AND RECOMMENDATIONS OF THE PRODUCT MAUFACTURER.
B. MATERIAL STRENGTHS:
    1. ALL WOOD STICK FRAMING SHALL BE DOUGLAS FIR-LARCH, NO. 2 GRADE (GRADED UNDER WWPA RULES) OR BETTER.
    2. WOOD STUD WALL FRAMING SHALL BE SPRUCE-PINE-FIR, NO. 1 GRADE (GRADED UNDER NLGA RULES), DOUGLAS FIR-LARCH, NO. 2 GRADE (GRADED UNDER WWPA RULES), HEM-FIR, NO. 2 GRADE (GRADED UNDER WWPA RULES) OR BETTER.
    3. ALL WALL TOP PLATES BELOW TOP FLOOR OF MULTI-STORY STRUCTURE WITHOUT IN-LINE FRAMING (WITHIN 3") SHALL BE DOUGLAS FIR-LARCH OR SOUTHERN YELLOW PINE, NO. 3 GRADE OR BETTER.
    4. LUMBER FOR MISCELLANEOUS USES MAY BE "STANDARD" GRADE LIGHT-FRAMING-SIZE LUMBER OF ANY SPECIES FOR SUPPORT OF OTHER CONSTRUCTION INCLUDING ROOFTOP EQUIPMENT AND SUPPORT BASES, CANT STRIPS, BUCKS, NAILERS, BLOCKING, FURRING, GROUND, STRIPPING AND SIMILAR MEMBERS.
    5. ALL WOOD STRUCTURAL PANELS SHALL BE IDENTIFIED WITH THE APPROPRIATE GRADE TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION (APA) AND SHALL MEET THE REQUIREMENTS OF PRODUCT STANDARD PS-1. UNLESS NOTED OTHERWISE PLYWOOD SHALL BE C-DX EXPOSURE 1 WITH GRADE AND THICKNESS INDICATED ON PLANS AND NOTES.
    6. PREFABRICATED WOOD I- JOISTS SHALL BE MANUFACTURED BY TRUSJOIST CORP. OR EQUAL.
    7. ALL BEAMS/HEADERS/LINTELS DENOTED AS MICROLAM OR LAMINATED VENEER LUMBER (L□L), PER AITC A19.01 AND ASTM D 3737 SHALL BE MANUFACTURED BY TRUSJOIST CORP. OR EQUAL AND HAVE THE FOLLOWING PROPERTIES:
        - □. ALLOWABLE BENDING STRESS 2,500 PSI
        - b. ALLOWABLE SHEAR STRESS 285 PSI
        - c. MODULUS OF ELASTICITY 1,900,000 PSI
    8. ALL BEAMS/HEADERS/LINTELS DENOTED AS PARALLAM OR PARALLEL STRND LUMBER (PSL), PER AITC A19.01 AND ASTM D 3737 SHALL BE MANUFACTURED BY TRUSJOIST CORP. OR EQUAL AND HAVE THE FOLLOWING PROPERTIES:
        - □. ALLOWABLE BENDING STRESS 2,900 PSI
        - b. ALLOWABLE SHEAR STRESS 290 PSI
        - c. MODULUS OF ELASTICITY 2,000,000 PSI
    9. ENGINEERED LUMBER RIM BOARDS SHALL BE 1 1/4" TIMBER BOARD LSL AS MANUFACTURED BY TRUSJOIST OR EQUAL.
    10. FASTENERS:
        - □. NAILS, WIRE BRADS AND STAPLES: ASTM F547
        - b. POWER DRIVEN FASTENERS: NATIONAL EVALUATION REPORT NER-272
        - c. WOOD SCREWS: ANSI B18.6.1
        - d. LAG BOLTS: ANSI B18.2.1
        - e. BOLTS: ASTM A307, GRADE A OR ASTM A36
C. WOOD TRUSS MEMBERS:
    1. TRUSSES SHOWN ON PLANS ARE FOR CONFIGURATION ONLY. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH MISSOURI PROFESSIONAL ENGINEERS SEAL SHOWING ACTUAL MEMBER STRESSES AND JOINT PLATE SIZES CONFORMING TO LOADING FIGURES CONSTRUCTED BY THE TRUSS SUPPLIER. TRUSS LAYOUT/PLAN DRAWINGS SHALL BE SUBMITTED.
    2. ALL WOOD TRUSS TO WOOD TRUSS (OR WOOD GIRDER) CONNECTIONS SHALL BE BY WOOD TRUSS SUPPLIER. SHOP DRAWINGS SHALL BE SUBMITTED FOR THESES CONNECTIONS, TYPICAL.
    3. TEMPORARY AND PERMANENT WOOD TRUSS BRACING/BRIDGING LOCATION AND SIZE SHALL BE DESIGNED AND INDICATED BY THE TRUSS MANUFACTURER, TYP.
    4. LIVE LOAD DEFLECTION DESIGN LIMITS SHALL NOT BE GREATER THAN THE FOLLOWING:
        - □. ROOF TRUSSES, VERTICAL 1/360 TIMES PROJECTED SPAN.
        - b. FLOOR TRUSSES, VERTICAL 1/480 TIMES SPAN LENGTH.
    5. PROVIDE 1/8" OF CAMBER FOR EACH 6'-0" OF TRUSS SPAN UNO.
    6. PROVIDE GAP AND SIMPSON STC CLIPS (OR OTHER ACCEPTABLE METHOD) AT NON-LOAD BEARING WALLS TO WOOD TRUSS CONNECTION TO ALLOW FOR TRUSS DEFLECTION, TYP. ATTACH FINISHES AT THESE LOCATIONS PER TRUSS MANUFACTURER'S RECOMMENDATIONS.
D. NOTES:
    1. LAY STRUCTURAL PANELS WITH FACE GRAIN PERPENDICULAR TO SUPPORTING MEMBERS AND STAGGER END JOINTS 4'-0".
    2. INSTALL PANELS CONTINUOUSLY OVER TWO OR MORE SPANS.
    3. PANEL CLIPS AT 24"O.C. (OR ONE PER SPAN MIN.) SHALL BE USED FOR ROOF DECKING.
    4. FASTEN PANELS TO SUPPORTS WITH 8d NAILS UNO (10d FOR 3/4" SHEATHING). NAIL SPACING SHALL BE 6" O.C. FIELD (INTERMEDIATE SUPPORTS) UNO.
    5. 1/8" SPACE SHALL BE ALLOWED AT ALL PANEL ENDS AND EDGES.
    6. ROOF DECKING SHALL BE 19/32" APA RATED SHEATHING WITH 40/20 SPAN RATING UNO.
    7. FLOOR DECKING SHALL BE 3/4" T&G, APA RATED SHEATHING WITH 48/24 SPAN RATING UNO.
        - □. FLOOR DECKING SHALL BE GLUED AT THE TOP FLOOR JOISTS AND AT T&G JOINTS IN ACCORDANCE WITH APA RECOMMENDATIONS AND THE GLUE MFR. USE ONLY ADHESIVES CONFORMING TO PERFORMANCE SPECIFICATION AFG-01. IF OSB PANELS WITH SEALED SURFACES AND EDGES ARE TO BE USED, USE ONLY SOLVENT-BASED LGUES. COMPLETE ALL NAILING OF EACH PANEL BELFORE GLUE SETS.
    8. EXTERIOR WALLS SHEATHING SHALL BE 7/16" OSB APA RATED SHEATHING WITH A 24/0 S□AN RATING UNO.
    9. ALL WOOD FRAMING MEMBERS REFERENCED ARE NOMINAL SIZES, DRESSED S4S. PROVIDE ACTUAL SIZES, AS REQUIRED BY PS20. RPOVIDE SEASONED LUMBER S-DRY OR KD WITH 19 PERCENT MAXIMUM MOISTURE CONTENT AT THE TIME OF DRESSING.
    10. ALL BEAMS, HEADERS, LINTELS AND COLUMNS SHALL BE CONNECTED WITH APPROPRIATE METAL STANDARDS OF SIMPSON STRONG-TIE. ATTACH ANCHORS TO WOOD FRAMING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
    11. MISCELLANEOUS FASTENER CONNECTIONS SHALL BE IN ACCORDANCE WITH THE NAILING SCHEDULE OF THE APPROPRIATE BUILDING CODE. WHERE ROUGH CARPENTRY IS EXPOSED TO WEATHER, IN GROUND CONTACT, OR IN AREAS OF HIGH RELATIVE HUMIDITY, PROVIDE HOT-DIP-ZINC COATED FASTENERS PER ASTM A153 OR AISI TYPE 304 STAINLESS STEEL FASTENERS.
    12. ENDS OF STICK BUILT FRAMING MEMBERS SHALL BE HELD IN POSITION BY FULL DEPTH BLOCKING OR BY METAL JOIST HANGERS UNLESS NOTED OTHERWISE.
    13. BEAMS/HEADERS/LINTELS RE□G BEARING STUD(S) AND FULL HEIGHT STUD(S) AT ALL EXTERIOR/INTERIOR OPENINGS:
        - □. THE QUANTITY OF STUDS (I.S., FULL HEIGHT, KING OR JAMB STUDS AT HEADERS) AND JOISTS DISPLACED OR CUT FOR OPENING SHALL BE PLACED HALF ON EACH SIDE OF OPENING.
        - b. ALL DIMENSION LUMBER BEAMS/HEADERS/LINTELS SHALL BE SUPPORTED BY A MINIMUM OF ONE BEARING STUD AND TWO FULL HEIGHT STUDS AT ALL EXTERIOR/INTERIOR OPENINGS.
        - c. ALL DIMENSION BEAMS AND GIRDER TRUSSES SHALL BE SUPPORTED BY A MINIMUM OF TWO STUDS AT EACH BEARING LOCATION, FULL-HEIGHT FROM FOUNDATION TO BEARING ELEVATION UNLESS NOTES. PROVIDE BEARING BLOCKING AT FLOOR LEVELS AS REQUIRED TO MAINTAIN SUPPORT TO FOUNDATION.
    14. STUDS SHALL BE CAPED WITH DOUBLE TOP PLATES UNO. STAGGER JOINTS AND PROVIDE OVERLAPS AT CORNERS AND INTERSECTIONS OF BEARING WALLS. USE TRIPLE TOP PLATES AT SECOND LEVEL IF STUDS ABOVE SECOND LEVEL DO NOT ALIGN (WITHIN 3 INCHES) WITH FRAMING (CL JOISTS AND TRUSSES)/STUDS BELOW SECOND LEVEL. USE FOUR TOP PLATES AT FIRST LEVEL IF STUDS ABOVE FIRST LEVEL DO NOT ALIGN (WITHIN 3 INCHES) WITH FRAMING (CL JOISTS AND TRUSSES)
    15. PROVIDE A SINGLE SILL PLATE AT FOUNDATION LEVEL OF ALL STUD WALLS UNO. SILL PLATES SHALL BE PRESSURE PRESERVATIVE TREATED AND ANCHORED TO FOUNDATION PER THE FOLLOWING UNO:
        - □. NON-LOAD BEARING WALLS: HILTI DN62P8 PINS AT 24" O.C.
        - b. LOAD BEARING/EXTERIOR WALLS: SEE PLANS.
        - c. SHEAR WALLS: SEE PLANS.
    16. ALL MULTIPLE-PLY MICROLAM MEMBERS SHALL BE INTERCONNECTED PER MANUFACTURER INSTRUCTIONS FOR SIDE-LOADED BEAMS.
    17. PRESERVATIVE PRESSURE TREAT LUMBER AND PLYWOOD WITH WATER-BORNE PRESERVATIVES TO COMPLY WITH AWPA C2 AND C9 RESPECTIVELY, AND WITH REQUIREMENTS INDICATED BELOW.
        - □. PRESSURE TREAT ABOVE-GROUND ITEMS WITH WATER-BORNE PRESERVATIVE TO A MINIMUM RETENTION OF 0.25 PCF, FOR INTERIOR USES, AFTER TREATMENT, KILN-DRY LUMBER AND PLYWOOD TO A MAXIMUM MOISTURE CONTENT, RESPECTIVELY, OF 18 PERCENT AND 15 PERCENT, TREAT INDICATED ITEMS AND THE FOLLOWING:
            1. WOOD CANTS, NAILERS, CURBS, EQUIPMENT, SUPPORT BASES, BLOCKING STRIPPING AND SIMILAR MEMBERS IN CONNECTION WITH ROOFING, FLASHING, VAPOR BARRIERS AND WATERPROOFING.
            2. WOOD SILLS, SLEEPERS, BLOCKING, FURRING, STRIPPING AND SIMILAR CONCEALED MEMBERS IN CONTACT WITH MASINRY OR CONCRETE.
        - b. COMPLETE FABRICATION OF TREATED ITEMS PRIOR TO TREATMENT, WHERE POSSIBLE. IF CUT AFTER TREATMENT, COAT CUT SURFACES TO COMPLY WITH AWPA M4. INSPECT EACH PIECE OF LUMBER OR PLYWOOD AFTER FRYING AND DISCARD DAMAGED OR DEFECTIVE PIECES.

CONCRETE:

1. CONCRETE SHALL CONFORM WITH THE REQUIREMENTS SET FORTH IN A.C.I. 301 AND SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH AND DENSITY, IN ACCORDANCE WITH THE FOLLOWING:

INTENDED USE	28-DAY STRENGTH Fc (KSI)	CONCRETE DENSITY	MAX. W/C (INCLUDING FLY ASH)	MIN. CEMENT MATL. (#/CY INCLUDING FLY ASH)	MAXIMUM AGGREGATE (IN)	SLUMP LIMITS (IN)(□0"-2")	TOTAL AIR LIMITS □ 0□B□	REQUIRED ADMIXTURES (C)
DRILLED PIERS	4	145	0.48	564	1	7	6	AE
FOOTINGS	4	145	0.48	564	1	4	-	-
GRADE BEAMS, TIE BEAMS AND BASEMENT WALLS	4	145	0.48	564	3/4	4	-	-
COLUMNS	5	145	0.48	611	3/4	4	-	-
STRUCTURAL SLABS AND BEAMS	4	145	0.48	564	3/4	4	N	-
CONCRETE EXPOSED TO DEICERS	4	145	0.40	564	3/4	4	6	AE, WR
SLABS ON METAL DECK	3.5	110	0.50	541	3/4	5	-	-
INTERIOR TOPPING SLABS	3.5	145	0.50	541	3/4	4	-	-
INTERIOR SLAB ON GRADE	4	145	0.50	564	1	4	N	-
ALL CONCRETE NOT OTHERWISE SPECIFIED	4	145	0.40	564	3/4	4	6	-

A. FOR MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER A.S.T.M.
    C33: 3/8" - #8 AGGREGATE
    ¾" - #67 AGGREGATE
    1" - #57 AGGREGATE
    1 ½" - #467 AGGREGATE
B. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 ½%. "N" IN COLUMN INDICATES ADDITION OF ENTRAINED AIR NOT PERMITTED.
C. ABBREVIATIONS FOR REQUIRED ADMIXTURES AS FOLLOWS:
    AE – AIR-ENTRAINED ADMIXTURE
    WR – WATER REDUCING ADMIXTURE
D. MAXIMUM SHRINKAGE FOR SLAB ON GRADE SHALL BE LIMITED TO ¼" PER 100 FOOT.

2. REINFORCING SHALL CONFORM TO A.S.T.M. A615, GR. 60, INCLUDING TIES AND STIRRUPS. BARS REQUIRING WELDING OR FIELD BENDING SHALL BE A.S.T.M. A706, GRADE 60.
3. WELDED WIRE FABRIC SHALL CONFORM TO A.S.T.M. A185.
4. LAP SPLICES SHALL BE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS NOTED OTHERWISE. WHERE CLASSES ARE NOT CALLED OUT ON DRAWING, USE CLASS "B" SPLICES.
    SPLICES f'c = 4000 P.S.I., Fy = 60,000 P.S.I.

STANDARD TENSION LAP SPLICE, GRADE 60

CLASS A, AB, LAP SPLICE LENGTH (INCHES)

		f'c = 3,000 P.S.I.				f'c = 4,000 P.S.I.				f'c = 5,000 P.S.I			
BAR SIZE	CLASS	A		B		A		B		A		B	
	CASE	1	2	1	2	1	2	1	2	1	2	1	2
#3	.	16	16	16	16	16	16	16	16	16	16	16	16
#4	.	16	16	16	16	16	16	16	16	16	16	16	16
#5	.	16	16	16	16	16	16	16	16	16	16	16	16
#6	.	16	16	16	16	16	16	16	16	16	16	16	16
#7	.	16	16	16	16	16	16	16	16	16	16	16	16
#8	.	16	16	16	16	16	16	16	16	16	16	16	16
#9	.	16	16	16	16	16	16	16	16	16	16	16	16
#10	.	16	16	16	16	16	16	16	16	16	16	16	16
#11	.	16	16	16	16	16	16	16	16	16	16	16	16

"TOP BARS" ARE DEFINED AS ANY BAR WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR, SEE NOTE 4 IN TABLE NOTES

COMPRESSION LAP SCHEDULE

LAP LENGTH (INCHES)

f'c = 3,000 P.S.I. OR GREATER

BAR SIZE	MIN. LAP
#3	12
#4	15
#5	19
#6	22
#7	26
#8	29
#9	33
#10	37
#11	41

TABLE NOTES

1. TABLES ARE BASED A.C.I. 318. WHERE CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED IS AT LEAST 2 BAR DIAMETERS AND THE CLEAR COVER AT LEAST 1 BAR DIAMETER, USE CASE 1. USE CASE 2 FOR OTHER BAR ARRANGEMENTS.
2. ALL SPLICES TO BE CLASS "B" TENSION SPLICE UNLESS OTHERWISE NOTED.
3. SPLICE PLAIN WIRE FABRIC BY LAPPING ONE FULL MESH SPACE PLUS 2 INCHES.
4. FOR TOP BARS, MULTIPLY LENGTHS IN TABLE BY 1.3.
5. FOR EPOXY COATED REINFORCEMENT, MULTIPLY LENGTHS IN TABLE BY 1.3 FOR TOP BARS AND 1.5 FOR COVER LESS THAN 3db OR CLEAR LESS THAN 6db, MULTIPLY LENGTHS IN TABLE BY 1.2 FOR ALL OTHER EPOXY COATED REINFORCEMENT.
6. FOR LIGHT CONCRETE, MULTIPLY LENGTHS IN TABLE BY 1.3.
7. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS.

CONCRETE GENERAL NOTES:

1. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED, IN ACCORDANCE WITH THE LATEST EDITION OF THE A.C.I. DETAILING MANUAL.
2. ALL REINFORCING SHALL BE SUPPORTED IN FORMS, SPACED WITH NECESSARY ACCESSORIES AND SHALL BE SECURELY WIRED TOGETHER, IN ACCORDANCE WITH C.S.R.I. "REINFORCEING BAR DETAILING", LATEST EDITION.
3. MINIMUM CONCRETE COVER, UNLESS NOTED OTHERWISE:
    UNFORMED SURFACE IN CONTACT WITH THE GROUND: 3 IN.
    FORMED SURFACES EXPOSED TO EARTH OR WEATHER:
        1 ½ IN.FOR #5 BAR OR SMALLER
        2 IN. FOR #6 BAR OR LARGER
    FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER:
        WALLS, SLABS: ¾ IN.
        BEAMS, GIRDERS AND COLUMNS (TO TIES OR STIRRUPS): 1 ½ "
4. ALL CONSTRUCTION JOINTS SHOWN ON DRAWINGS SHALL BE INCORPORATED INTO THE STRUCTURE, UNLESS THEIR ELIMINATION IS APPROVED BY THE ENGINEER. ADDITIONAL CONSTRUCTION JOINTS, REQUIRED TO FACILITATE CONSTRUCTION, SHALL BE LOCATED AT POINTS OF MINIMUM SHEAR AND SHALL BE DETAILED ON SHOP DRAWINGS WITH LOCATIONS SUBJECT TO APPROVAL BY ENGINEER. REINFORCEMENT SHALL PASS CONTINUOUSLY THROUGH THE JOINT.
5. ALL ABUTTING CONCRETE MEMBERS SHALL BE DOWELED TOGETHER, UNLESS POURED MONOLITHICALLY. DOWELS SHALL BE EQUAL IN SIZE AND SPACING TO THE REINFORCING IN THE ADJECENT MEMBER.
6. UNLESS OTHERWISE SHOWN IN THE ARCHITECTURAL DRAWINGS, PROVIDE 3.4" CHAMFERS AT ALL EDGES THAT ARE EXPOSED TO THE VIEW IN THE FINISHED STRUCTURE.
7. SEE ARCHITECTURAL DRAWINGS FOR DOOR AND WINDOW OPENINGS, DRIP SLOTS, REGLETS, MASONRY ANCHORS, PRECAST BEARING LEDGES, BRICK LEDGE ELEVATIONS AND FOR MISCELLANEOUS EMBEDDED PLATES, BOLTS, ANCHORS, ANGLES, ETC.
8. REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE FINISHES. WHERE FINISH IS NOT SPECIFIED, CONFORM TO REQUIREMENTS OF A.C.I. 301.
9. MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS SHALL BE REFERRED TO FOR DRAINS, SLEEVES, OUTLET BOXES, CONDUIT, ANCHORS, ETC. THE VARIOUS TRADES ARE RESPONSIBLE FOR PLACING THEIR ITEMS.
10. REFER TO MECHANICAL DRAWINGS FOR HOUSEKEEPING PADS AND INERTIA BASES AT MECHANICAL EQUIPMENT.
11. PROVIDE CONCRETE EQUIPMENT PADS, INERTIA BASES AND CURBS AS NOTED ELSEWHERE IN CONTRACT DOCUMENTS. UNLESS NOTED, DOWEL PADS WITH HOOKED #4 x 0'-6" PROJECTING 3" FROM CONCRETE BELOW AT 18" O.C. EACH WAY. REINFORCE PADS WITH #4@18 EASH WAY, TOP AND BOTTOM, UNLESS OTHERWISE REQUIRED BY EQUIPMENT ANCHORAGE DESIGN.
12. REFER TO MECHANICFOAL DRAWINGS FOR UNDER FLOOR AND PERIMETER FOUNDATION DRAINS.
13. BASE PLATES, ANCHOR BOLTS, SUPPORT ANGLES, ETC., BELOW GRADE SHALL BE COVERED WITH A MINIMUM OF 3" CONCRETE.
14. PROVIDE CONTINUOUS WATERSTOP AT HORIZONTAL AND VERTICAL JOINTS BELOW GRADE.
15. SHORING OF COMPOSITE BEAMS AND GIRDERS IS THE RESPONSIBILITY OF THE CONCRETE CONTRACTOR. SEE COMPOSITE BEAM AND DECK NOTES FOR SHORING REQUIREMENTS.
16. FILL SLABS INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REINFORCED WITH 6□6-WI.4XWI.4 W.W.F., UNLESS NOTED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR PLAN DIMENSIONS, THICKNESSES, SLOPES TO DRAIN, ETC.
17. WHERE REINFORCING IS NOT INDICATED OR DEFINED, INCLUDE FOR BID PURPOSES ONLY:
    A, WALLS: #5 EASH WAY EACH FACE. SPACING IN INCHES = 140 / (WALL THICKNESS IN INCHES) BUT NOT OVER 18" O.C.
    B. BEAMS: 1-#9 CONTINUOUS TOP AND BOTTOM FOR EACH 100 SQUARE INCHES OF BEAM CROSS SECTIONAL AREA AND #4 STIRRUPS SPACED AT ¼ OF BEAM DEPTH FULL LENGTH OF BEAM.
    C. COLUMNS: 1-#9 VERTICAL PER 50 SQUARE INCHES OF CROSS SECTIONAL AREA AND #3 TIES □ 9" O.C.
    D. SLABS: #5 EACH WAY TOP AND BOTTOM. SPACING IN INCHES = 100/(SLAB THICKNESS IN INCHES) BUT NOT OVER 18" O.C.
    ON SHOP DRAWINGS, INDICATE ABOVE REINFORCING AS "PER GENERAL NOTES". SUCH REINFORCING MAY BE REVISED OR RELOCATED BY STRUCTURAL ENGINEER DURING SHOP DRAWING REVIEW.
18. MASONRY DOWELS: PROVIDE, PLACE, AND SPACE TO MATCH MASONRY REINFORCING.
19. PROVIDE STANDARD HOOKS ON BARS TERMINATING AT A CONCRETE FACE UNLESS NOTED (E.G.: EDGES OF OPENINGS, SLAB EDGES, EXPANSION JOINTS, ENDS OF BEAMS, AND AT: TOP, BOTTOM AND ENDS OF WALLS, ETC.)
20. PROVIDE 2-#5 (MINIMUM) @ EACH SIDE OF OPENING. EXTEND 2'-0" BEYOND OPENINGS.

STRUCTURAL STEEL:

1. STEEL SHALL CONFORM TO THE FOLLOWING GRADES:
    ALL WIDE FLANGE (U.N.O.), A992 GRADE 50 (FY=50)
    ALL CHANNEL, ANGLE, BASE PLATES, CONNECTION PLATES (U.N.O.), A36 (FY=36)
    STRUCTURAL PIPE: A53 (FY=35)
    STRUCTURAL HSS RECTANGULAR TUBE: A500 GRADE B (FY=46)
    STRUCTURAL HSS ROUND TUBE: A500 GRADE B (FY=42)
2. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE A.S.C.I. CODE OF STANDARD PRACTICE (1992), EXCEPT AS MODIFIED IN THESE NOTES AND THE PROJECT SPECIFICATIONS.
3. CONNECTIONS MAY BE BOLTED OR WELDED. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF CONNECTIONS NOT DESIGNED ON THE DRAWINGS. GENERALLY, CONNECTIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHEMATIC AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. ANY CONNECTION THAT IS SHOWN OR IS NOT COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THE PROJECT, RETAINED BY THE FABRICATOR. COMPLETELY DETAILED MEANS THE FOLLOWING INFORMATION IS SHOWN ON THE DETAIL:
    A. ALL PLATE DIMENSIONS AND GRADES.
    B. ALL WELD SIZES, LENGTHS, PITCHES, AND RETURNS.
    C. ALL HOLE SIZES AND SPACINGS.
    D. NUMBER AND TYPES OF BOLTS: WHERE BOLTS ARE SHOWN BUT NO NUMBER IS GIVEN, THE CONNECTION HAS NOT BEEN COMPLETELY DETAILED.
    E. WHERE PARTIAL INFORMATION IS GIVEN, IT SHALL BE THE MINIMUM REQUIREMENT FOR THE CONNECTION.
    PRIOR TO FABRICATION, PROVIDE (FOR RECORD COPY) DESIGN CALCULATIONS FOR TYPICAL BEAM CONNECTIONS, ALL PRIMARY BRACING AND HANGER CONNECTIONS, SIGNED AND SEALED BY A PREOFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT SHALL BE SUBMITTED TO THE ENGINEER.

    CONNECTION DESIGN FORCES:

    A. BEAMS, GREATER OF:
        55□ OF TOTAL ALLOWABLE UNIFORM LOAD CAPACITY FROM A.I.S.C. 9TH EDITION TABLES FOR ALLOWABLE LOADS ON BEAMS, Wc/L.
        REACTIONS SHOWN ON DRAWINGS.
        10 KIPS.
    B. MOMENT CONNECTIONS INDICATED ON THE DRAWINGS THUS: □□ □□□-□DEISGN FOR MOMENT SHOWN OR, IF NOT SHOWN, DEVELOP MOMENT CAPACITY OF MEMBER WITH □b=0.66 FY.
    C. MAINTAIN TENSION INDICATED OF COLUMNS, DIAGONALS AND MEMBERS SUBJECT TO TENSION AT BOLT HOLES, NOTCHES, OR COPES.
    D. CONNECTION FORCE NOTATION:
        P = AXIAL FORCE IN KIPS: □□TENSION, □□COMPRESSION
        □ OR □□= SHEAR IN KIPS
        M = MOMENT IN FOOT KIPS
        T = TORSION IN FOOT KIPS
    E. LOADS SHOWN INCLUDE COMPENSATION FOR CODE PERMITTED LOAD REDUCTIONS FOR CONNECTION DESIGN.
5. THE MINIMUM PLATE THICKNESS SHALL BE 3/8".
6. BOLTED CONNECTIONS:
    A. MINIMUM BOLT DIAMETER = ¾"
    B. SLIP CRITICAL CONNECTIONS OF A3255C OR A490SC BOLTS SHALL BE USED FOR ALL BOLTED CONNECTIONS OF BRACING MEMBERS, MOMENT CONNECTIONS, CANTILEVERS, AND AS SHOWN ON THE DRAWINGS. OVERSIZED AND LONG-SLOTTED HOLES ARE ALLOWED FOR SLIP CRITICAL CONNECTIONS.
    C. ALL OTHER BOLTED CONNECTIONS SHALL BE BEARING TYPE USING A325N OR A490N BOLTS. OVERSIZED HOLES AND LONG-SLOTTED HOLES ARE NOT ALLOWED UNLESS SHOWN ON THE DRAWINGS.
    D. A307 BOLTS MAY BE USED WHERE INDICATED ON THE DRAWINGS.
    E. PROTRUDING BOLT HEADS, SHAFTS OR NUTS SHALL NOT EXTEND INTO NOR PROHIBIT THE APPLICATION OF ARCHITECTURAL FINISHED AND THEY SHALL NOT EXTEND INTO NOT PROHIBIT THE PLACEMENT OF STEEL DECKING TO THE CORRECT LINE AND ELEVATION.
    F. THE FABRICATOR IS RESPONSIBLE FOR VERFYING THE TENSION CAPACITY OF AXIALLY LOADED MEMBERS AFTER A SECTION IS REDUCED FOR BOLT HEADS. MEMBER SIZE MAY BE INCREASED OR CONNECTION PLATES ADDED AS REQUIRED.
    G. SHOP DRAWINGS SHALL INDICATE THE TYPE OF BOLT USED IN EACH CONNECTION AND THE ALLOWABLE VALUES USED FOR THE VARIOUS BOLT TYPES.
7. WELDED CONNECTIONS:
    A. WELDS ARE CONTINUOUS UNLESS NOTED.
    B. ALL FILLET WELDS: A.I.S.C. MINIMUM BUT NOT LESS THAN 1.4" UNLESS NOTED OTHERWISE.
    C. ALL WELDING SHALL BE IN ACCORDANCE WITH THE CURRENT "STRUCTURAL WELDING CODE" (A.W.S. DI.1) PUBLISHED BY THE AMERICAN WELDING SOCIETY. ELECTRODES FOR WELDING SHALL COMPLY WITH
    D. THE REQUIREMENTS OF TABLE 4.1.1 OF (A.W.S. DI.1) ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION
8. UNLESS NOTED OTHERWISE.
    SPLICING OF STEEL MEMBERS, UNLESS SHOWN ON THE
9. DRAWINGS, IS PROHIBITED WITHOUT WRITTEN APPROVAL OF THE ARCHITECT.
    NO CHANGES IN SIZE OR POSITION OF THE STRUCTURAL
10. ELEMENTS SHALL BE ADE AND HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP DRAWINGS.
11. NO FINAL BOLTING OR WELDING SHALL BE MADE UNTIL AS MUCH OF THE STRUCTURE AS WILL BE STIFFENED THEREBY HAS BEEN PROPERLY ALIGNED.
12. UNLESS NOTED OTHERWISE, BEAMS SHALL BEAR 8" MINIMUM ON
13. CONCRETE OR MASONRY. ANCHOR BEAMS TO MASONRY OR CONCRETE WITH 2-3/4" DIA. ANCHOR BOLTS OR WELDED TO
14. EMBED PLATE.
    FABRICATE ALL BEAMS WITH THE MILL CAMBER UP.
    SHEAR STUDS: CONFORM TO A.W.S. DI-1-98, SHOP WELD EXCEPT
15. WHERE APPLIED THROUGH METAL DECK.
    HEADED STUDS SHALL CONFORM TO A.W.S. DI-1-98, SHOP WELD EXCEPT WHERE APPLIED THROUGH METAL DECK. HEADED STUDS
16. SHALL CONFORM TO A.S.T.M. A108, GRADE 1015, WELDABLE (Fy = 65 K.S.I.)
    WHERE FIREPROOFING IS REQUIRED, ADJUST FIREPROOFING THICKNESS BASED ON MEMER SIZES. SEE ARCHITECTURAL DRAWINGS FOR FIREPROOFING REQUIREMENTS AND THICKNESS. THE FABRICATOR IS RESPONSIBLE FOR THE DESIGN AND DETAILING OF STEEL STAIRS. STAIRS SHOWN ON THE STRUCTURAL DRAWINGS ARE SCHMETIS AND ARE ONLY INTENDED TO SHOW THE RELATIONSHIP OF MEMBERS CONNECTED. STAIRS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT, RETAINED BY THE FABRICATOR.

POST-INSTALLED MECHANICAL ANCHORS:

1. POST-INSTALLED MECHANICAL ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN ANCHORS. CARE SHALL BE GIVEN TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED PER MANUFACTURER'S INSTRUCTIONS. DO NOT CUT EXISTING REINFORCING.
2. THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING OR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS. UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT DEPTH REQUIRED TO SUPPORT THE INTENDED LOAD. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE LISTED BELOW, SHALL BE SUBMITTED TO THE ENGINEER WITH CALCULATIONS THAT ARE PREPARED AND SEALED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE PROJECT IS LOCATED, SHOWING THAT THE SUBSTITUTED PRODUCTS WILL ACHIEVE AN EQUIVALENT CAPACITY.
3. UNLESS OTHERWISE NOTED IN THE DETAILS, ANCHORS SHALL BE:
    CONCRETE EXPANSION ANCHORS:
    ALL CONCRETE EXPANSION ANCHORS SHALL MEET THE REQUIREMENTS OF A.C.I. 318, APPENDIX D AND SHALL BE ACCEPTABLE FOR BOTH CRACKED AND UN-CRACKED CONCRETE.
    "STRONG-BOLT" BY SIMPSON STRONG-TIE CO. (ISS-ES ESR-1771)
    "KWIK BOLT TZ" BY HILTI, INC. (ICC-ES ESR-1917)
    "HSL HEAVY DUTY SLEEVE ANCHOR" BY HILTI, INC. (ICC-ES ESR-1546)
    "KWIK BOLT 3" BY HILTI, INC. UNCRACKED ONLY (ICC-ES ESR-2303)
    GROUTED MASONRY EXPANSION ANCHORS:
    "WEDGE-ALL" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-1396)
    "KWIK BOLT 3" BY HILTI, INC. (ICC-ES ESR-1385)
4. ADHERE TO MANUFACTURERS REQUIREMENTS FOR ANCHOR SPACING AND LOCATIONS.
    CONCRETE SCREW ANCHORS:
    ALL SCREW ANCHORS SHALL BE INSTALLED IN DRY, INTERIOR NON-CORROSIVE ENVIRONMENTS OR FOR TEMPORARY OUTDOOR APPLICATIONS.
    "TITEN HD" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2713)
    CRACKED AND UN-CRACKED CONCRETE.
    "KWIK HUS EZ AND EZ-1" BY ILTI, INC. (ICC-ES ESR-3027)
    MASONRY SCREW ANCHORS:
    ALL SCREW ANCHORS SHALL BE INSTALLED IN DRY, INTERIOR NON-CORROSIVE ENVIRONMENTS OR FOR TEMPORARY OUTDOOR APPLICATIONS.
    "TITEN HD" BY SIMPSON STRONG-TIE CO. (ICC-ES ESR-2713)
    "HUS-H SCREW ANCHOR" BY HILTI, INC. (ICC-ES ESR-2369)
5. SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE ICC-ES REPORT AND AS PRESCRIBED BY THE APPLICABLE BUILDING CODE.

STRUCTURAL DRAWING LIST

S1.0	STRUCTURAL GENERAL NOTES
S2.1	STANDARD DETAILS
S2.2	STANDARD DETAILS
S3.0	FOUNDATION DEMOLITION PLAN
S3.1	FOUNDATION PLAN
S3.2	SLAB ON GRADE PLAN
S3.3	SECOND FLOOR FRAMING PLAN
S3.4	ROOF DEMOLITION PLAN
S3.5	ROOF FRAMING PLAN
S4.1	SECTIONS AND DETAILS
S4.2	SECTIONS AND DETAILS
S4.3	SECTIONS AND DETAILS
S5.0	SHEAR WALL ELEVATIONS

NO.	REVISION DESCRIPTION	DATE

ENGINEER SEAL

VonArx Engineering

10765 BUSINESS 21, SUITE A
HILLSBORO, MISSOURI 63050
OFFICE: 636-797-8425

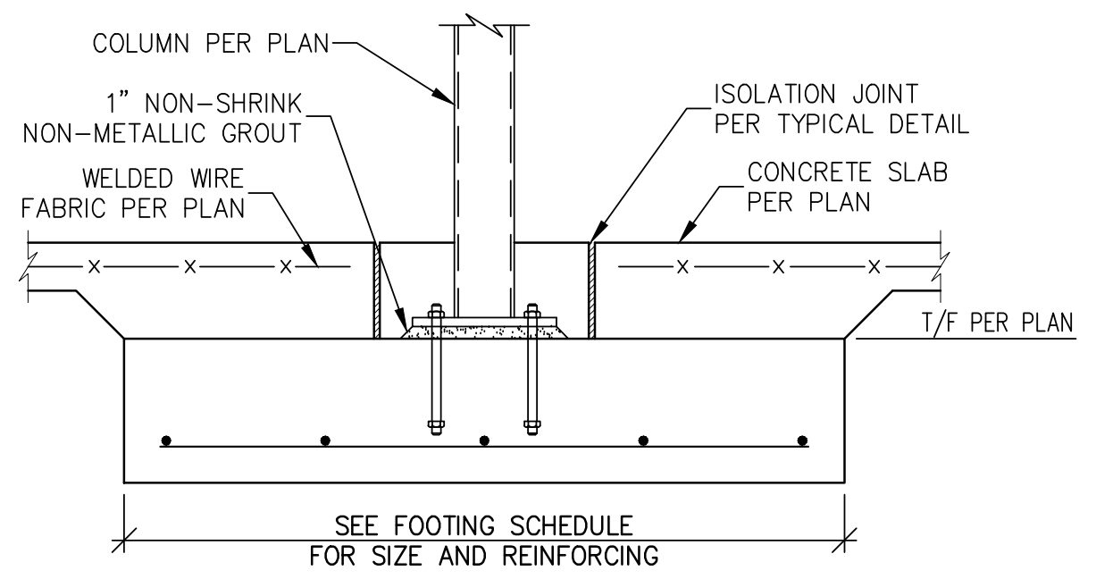
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

GENERAL NOTES

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

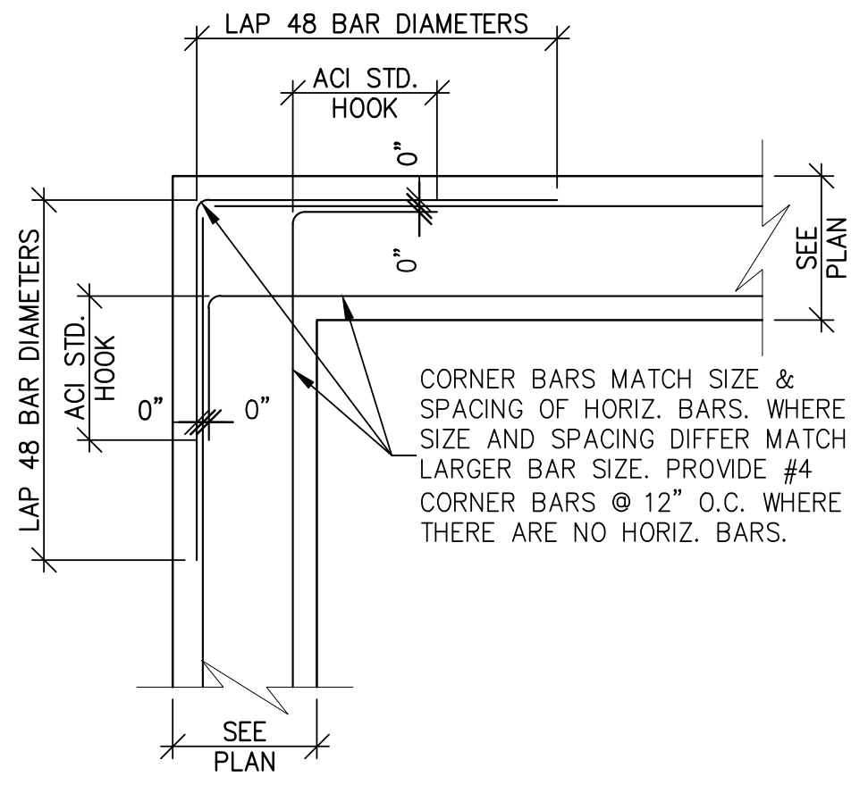
DRAWN BY: E. Fletcher
CHECKED BY: D. □on□r□
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

S1.0


COLUMN PER PLAN
1" NON-SHRINK NON-METALLIC GROUT
WELDED WIRE FABRIC PER PLAN
ISOLATION JOINT PER TYPICAL DETAIL
CONCRETE SLAB PER PLAN
T/F PER PLAN
SEE FOOTING SCHEDULE FOR SIZE AND REINFORCING

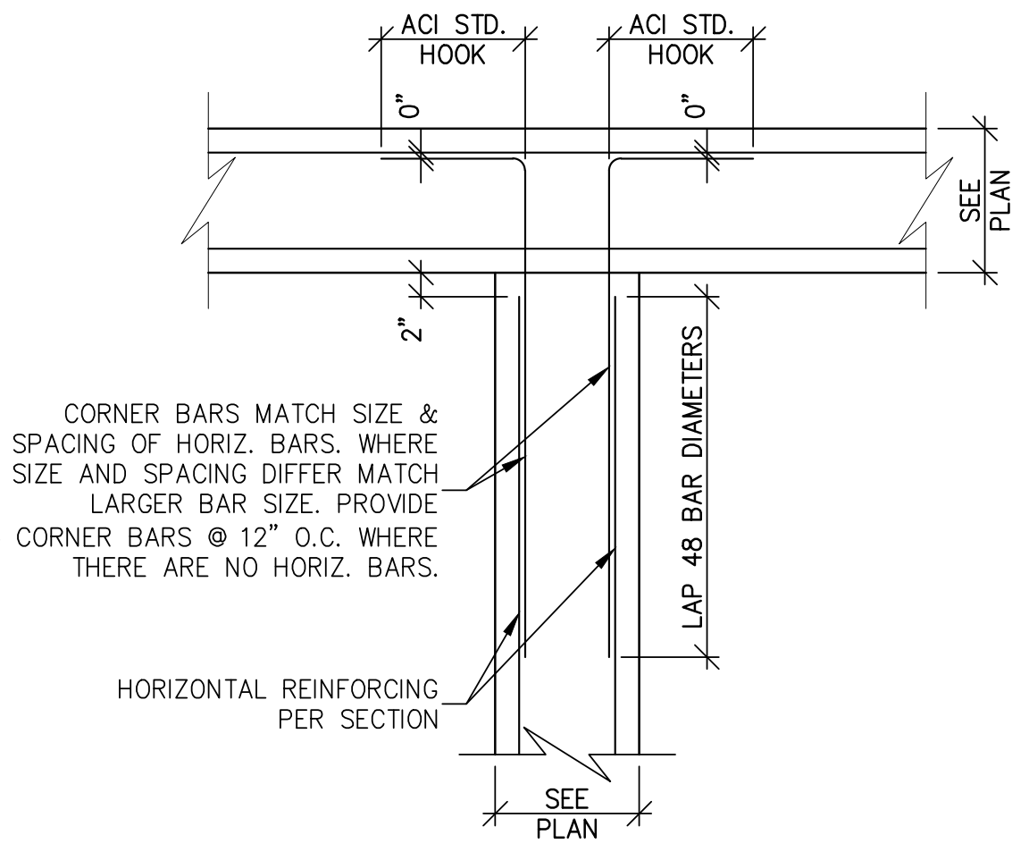
TYPICAL INTERIOR FOOTING DETAIL

N.T.S.


LAP 48 BAR DIAMETERS
ACI STD. HOOK
0"
SEE PLAN
CORNER BARS MATCH SIZE & SPACING OF HORIZ. BARS. WHERE SIZE AND SPACING DIFFER MATCH LARGER BAR SIZE. PROVIDE #4 CORNER BARS @ 12" O.C. WHERE THERE ARE NO HORIZ. BARS.

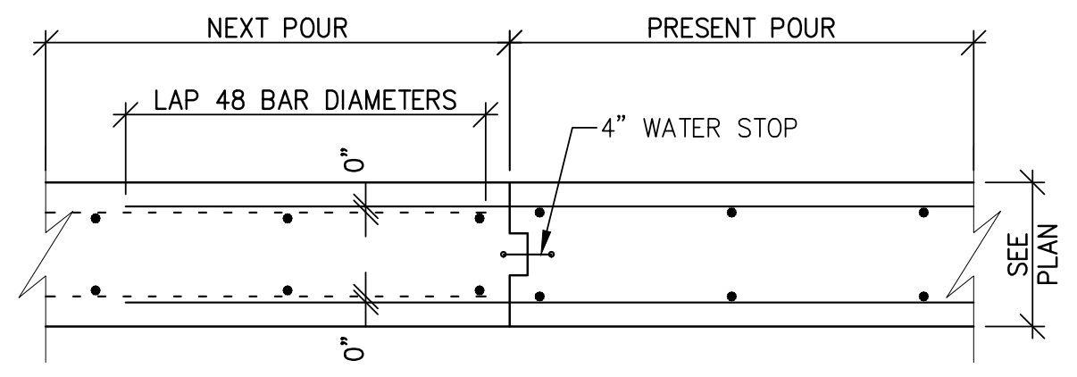
TYPICAL WALL / GRADE BEAM / FOOTING CORNER REINFORCING DETAIL

N.T.S.


ACI STD. HOOK
ACI STD. HOOK
0"
2"
SEE PLAN
CORNER BARS MATCH SIZE & SPACING OF HORIZ. BARS. WHERE SIZE AND SPACING DIFFER MATCH LARGER BAR SIZE. PROVIDE #4 CORNER BARS @ 12" O.C. WHERE THERE ARE NO HORIZ. BARS.
LAP 48 BAR DIAMETERS
HORIZONTAL REINFORCING PER SECTION

TYPICAL WALL / GRADE BEAM / FOOTING INTERSECTION REINFORCING DETAIL

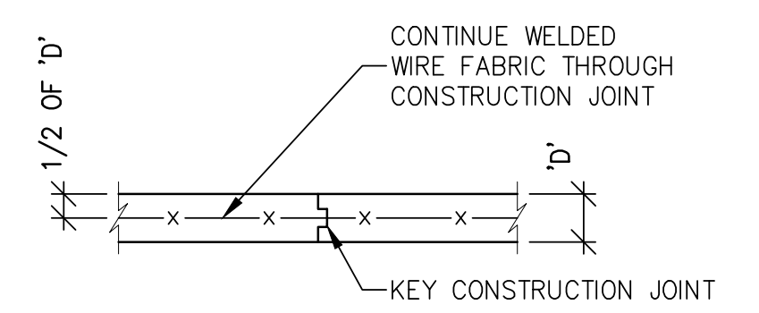
N.T.S.


NEXT POUR
PRESENT POUR
LAP 48 BAR DIAMETERS
4" WATER STOP
0"
SEE PLAN

NOTES:
FOR REINFORCING SIZE AND SPACING SEE FOUNDATION SECTIONS.
FOUNDATION WALLS
LOCATE POUR JOINTS AT A MAXIMUM SPACING OF 100'-0"
RETAINING WALLS
LOCATE POUR JOINTS AT A MAXIMUM SPACING OF 25'-0"
LOCATE EXPANSION JOINTS AT A MAXIMUM SPACING OF 50'-0" O.C. AND CONTROL JOINTS AT A MAXIMUM SPACING OF 50'-0" ALTERNATE AT 25'-0" O.C. TYP. U.N.O.

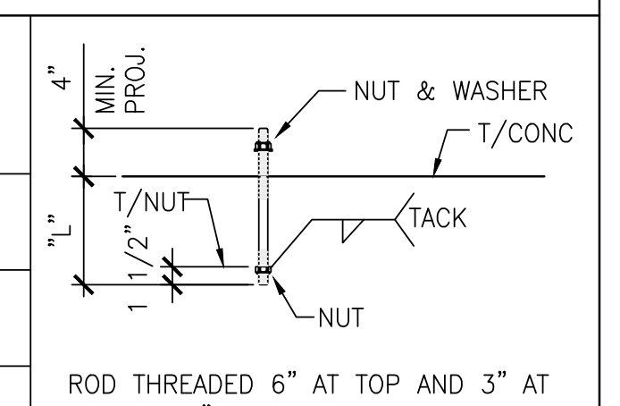
TYPICAL WALL POUR JOINT DETAIL

N.T.S.


CONTINUE WELDED WIRE FABRIC THROUGH CONSTRUCTION JOINT
1/2 OF 'D'
'D'
KEY CONSTRUCTION JOINT

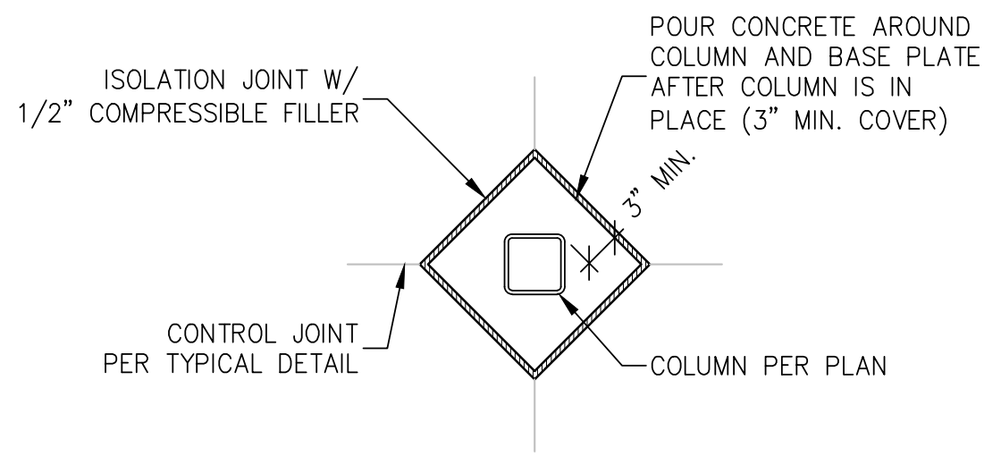
TYPICAL CONSTRUCTION JOINT DETAIL

N.T.S.

F1554 ANCHOR ROD SCHEDULE		
ROD SIZE	"L"	 4" MIN. PROJ. NUT & WASHER T/CONC T/NUT TACK "L" 1 1/2" NUT
3/4" DIA.	9"	
1" DIA	1'-3"	
1 1/4" & 1 1/2" DIA.	AS REQ'D.	ROD THREADED 6" AT TOP AND 3" AT BOTTOM. 4" MIN. PROJECTION.

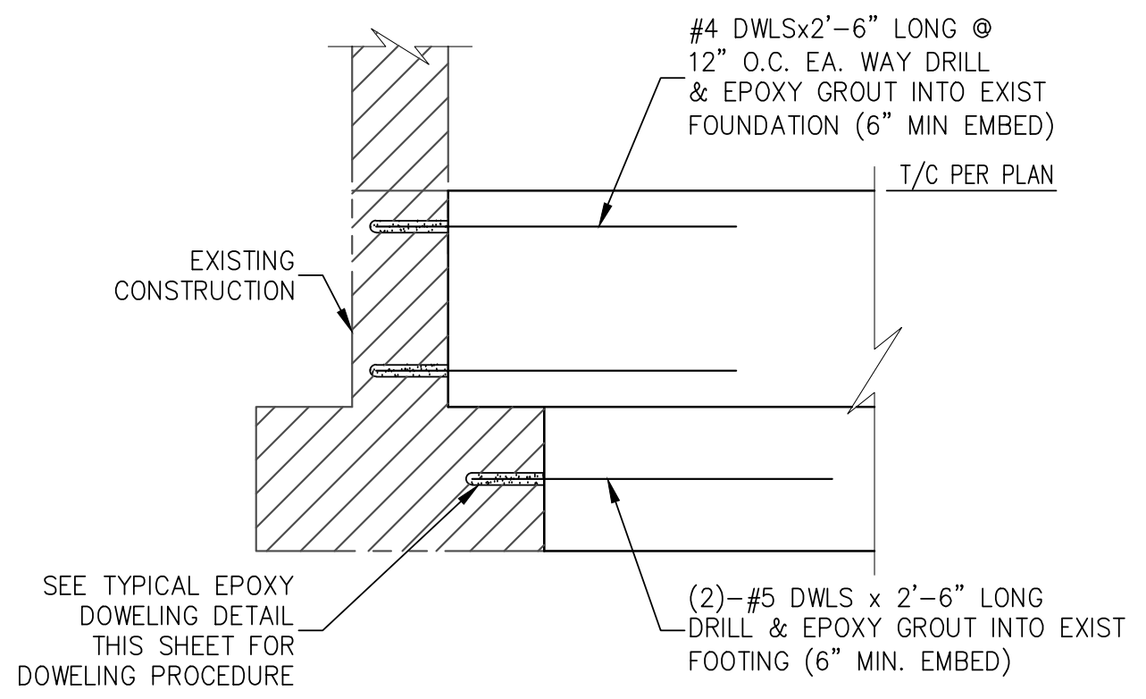
- SEE SPECIFIC DETAILS FOR SPECIAL EMBEDMENT LENGTHS AND ROD SIZES DUE TO HIGH LOADING CONDITIONS.
- UNLESS OTHERWISE SPECIFIED, ALL ANCHOR RODS SHALL BE GRADE 36
- SEE THE COLUMN SCHEDULE FOR ANCHOR ROD SIZES REQUIRED ON THIS PROJECT

ANCHOR ROD SCHEDULE


ISOLATION JOINT W/ 1/2" COMPRESSIBLE FILLER
POUR CONCRETE AROUND COLUMN AND BASE PLATE AFTER COLUMN IS IN PLACE (3" MIN. COVER)
3" MIN.
CONTROL JOINT PER TYPICAL DETAIL
COLUMN PER PLAN

TYPICAL ISOLATION JOINT DETAIL

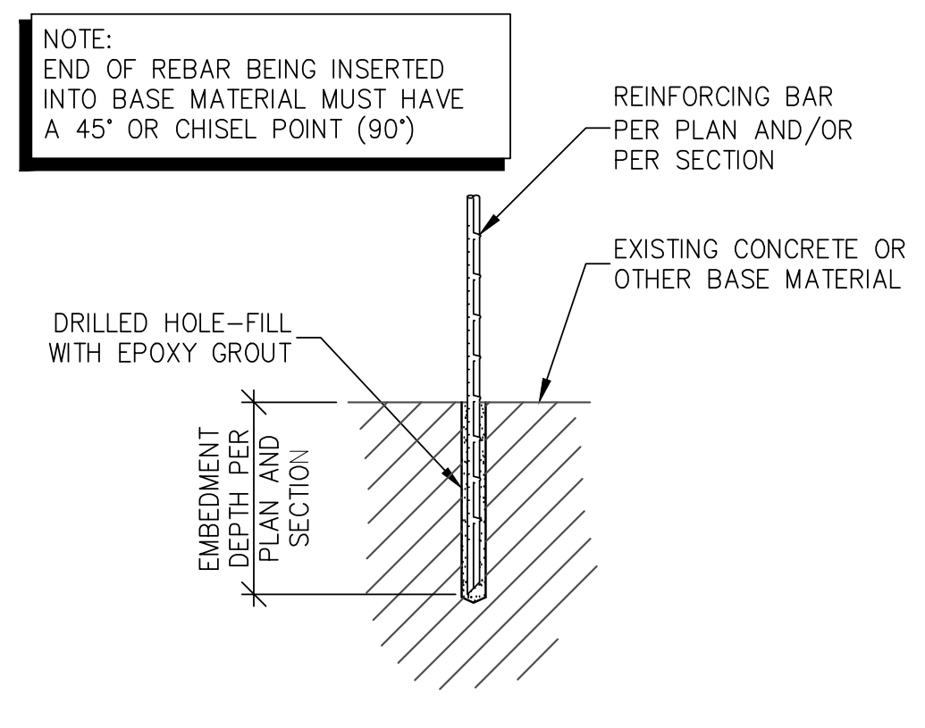
N.T.S.


#4 DWLSx2'-6" LONG @ 12" O.C. EA. WAY DRILL & EPOXY GROUT INTO EXIST FOUNDATION (6" MIN EMBED)
T/C PER PLAN
EXISTING CONSTRUCTION
SEE TYPICAL EPOXY DOWELING DETAIL THIS SHEET FOR DOWELING PROCEDURE
(2)-#5 DWLS x 2'-6" LONG DRILL & EPOXY GROUT INTO EXIST FOOTING (6" MIN. EMBED)

TYPICAL FOUNDATION DOWELING DETAIL

N.T.S.

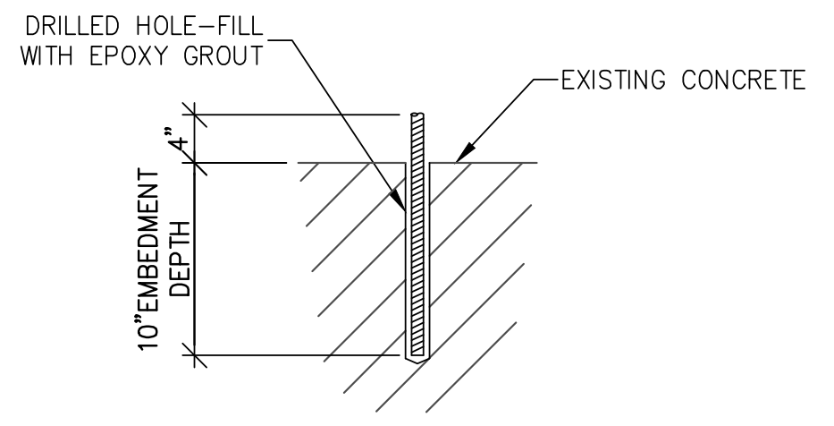
NOTE:
END OF REBAR BEING INSERTED INTO BASE MATERIAL MUST HAVE A 45° OR CHISEL POINT (90°)


REINFORCING BAR PER PLAN AND/OR PER SECTION
EXISTING CONCRETE OR OTHER BASE MATERIAL
DRILLED HOLE-FILL WITH EPOXY GROUT
EMBEDMENT DEPTH PER PLAN AND SECTION

1. DRILL HOLE TO THE REQUIRED DEPTH; APPROX. 1/8" WIDER DIAMETER THAN THE REBAR.
2. CLEAN OUT DUST AND FRAGMENTS; PREFERABLY USING A JET OF WATER OR COMPRESSED AIR AND A NYLON BRUSH. DO NOT USE A WIRE BRUSH.
3. INJECT APPROPRIATE EPOXY GROUT INTO PRE-DRILLED HOLE IN BASE MATERIAL.
4. PLACE CHISEL POINTED END OF REBAR ON TOP OF EPOXY GROUT AND DRIVE REBAR TO BOTTOM OF HOLE.
5. CARE SHOULD BE TAKEN NOT TO DISTURB THE INSTALLED REBAR UNTIL EPOXY GROUT HAS CURED.

TYPICAL EPOXY DOWELING DETAIL

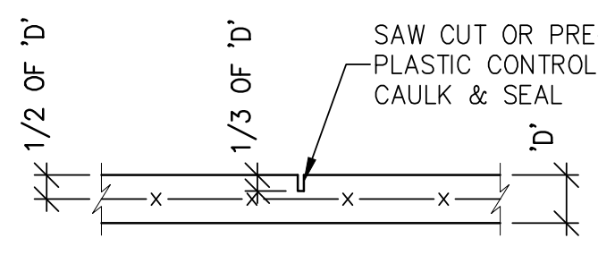
N.T.S.


DRILLED HOLE-FILL WITH EPOXY GROUT
EXISTING CONCRETE
4"
10"EMBEDMENT DEPTH

1. DRILL HOLE TO THE REQUIRED DEPTH; APPROX. 1/8" WIDER DIAMETER THAN THAT OF ANCHOR.
2. CLEAN OUT DUST AND FRAGMENTS; PREFERABLY USING A JET OF WATER OR COMPRESSED AIR AND A NYLON BRUSH. DO NOT USE A WIRE BRUSH.
3. INJECT APPROPRIATE EPOXY GROUT INTO PRE-DRILLED HOLE IN BASE MATERIAL.
4. PLACE ANCHOR ON TOP OF EPOXY GROUT AND DRIVE ANCHOR TO BOTTOM OF HOLE.
5. CARE SHOULD BE TAKEN NOT TO DISTURB THE INSTALLED ANCHOR UNTIL EPOXY GROUT HAS CURED.

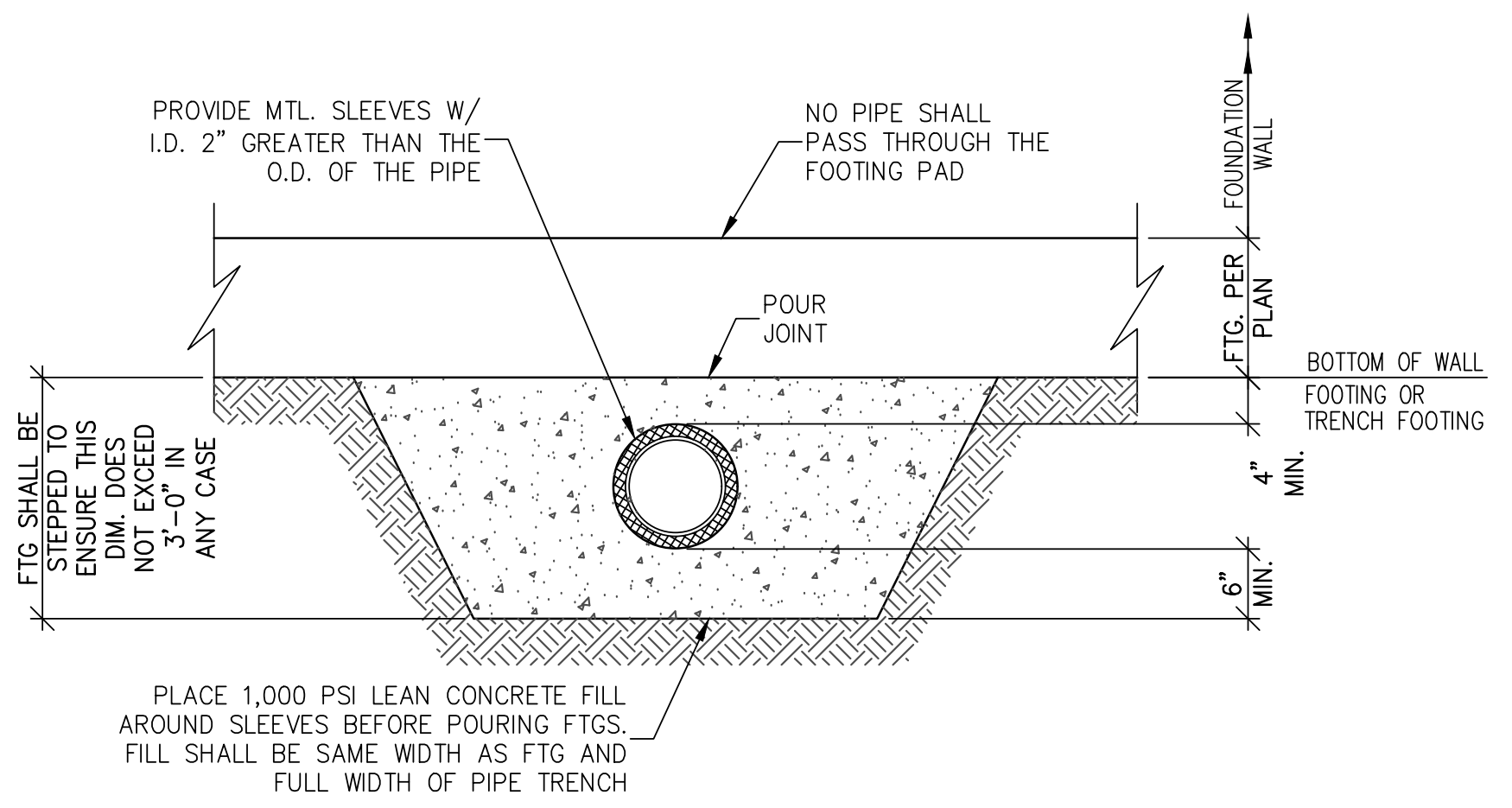
TYPICAL EPOXY ANCHOR DETAIL

N.T.S.


1/2 OF 'D'
1/3 OF 'D'
SAW CUT OR PRE-MOLDED PLASTIC CONTROL JOINT CAULK & SEAL
'D'

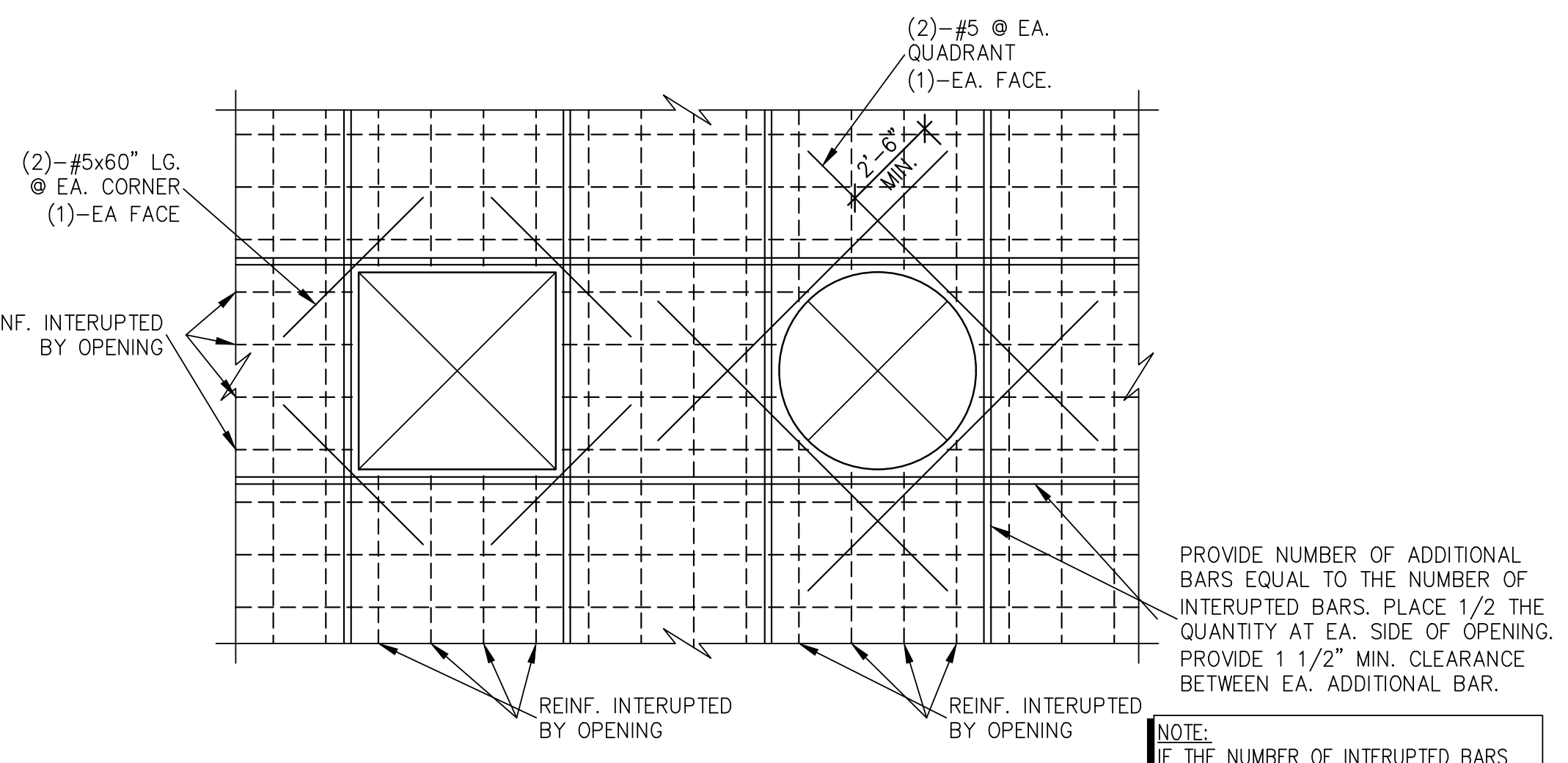
TYPICAL CONTROL JOINT DETAIL

N.T.S.


PROVIDE MTL. SLEEVES W/ I.D. 2" GREATER THAN THE O.D. OF THE PIPE
NO PIPE SHALL PASS THROUGH THE FOOTING PAD
FOUNDATION WALL
FTG. PER PLAN
POUR JOINT
BOTTOM OF WALL FOOTING OR TRENCH FOOTING
4" MIN.
6" MIN.
FTG SHALL BE STEPPED TO ENSURE THIS DIM. DOES NOT EXCEED 3'-0" IN ANY CASE
PLACE 1,000 PSI LEAN CONCRETE FILL AROUND SLEEVES BEFORE POURING FTGS. FILL SHALL BE SAME WIDTH AS FTG AND FULL WIDTH OF PIPE TRENCH

PIPE TRENCH PERPENDICULAR TO FOUNDATION DETAIL

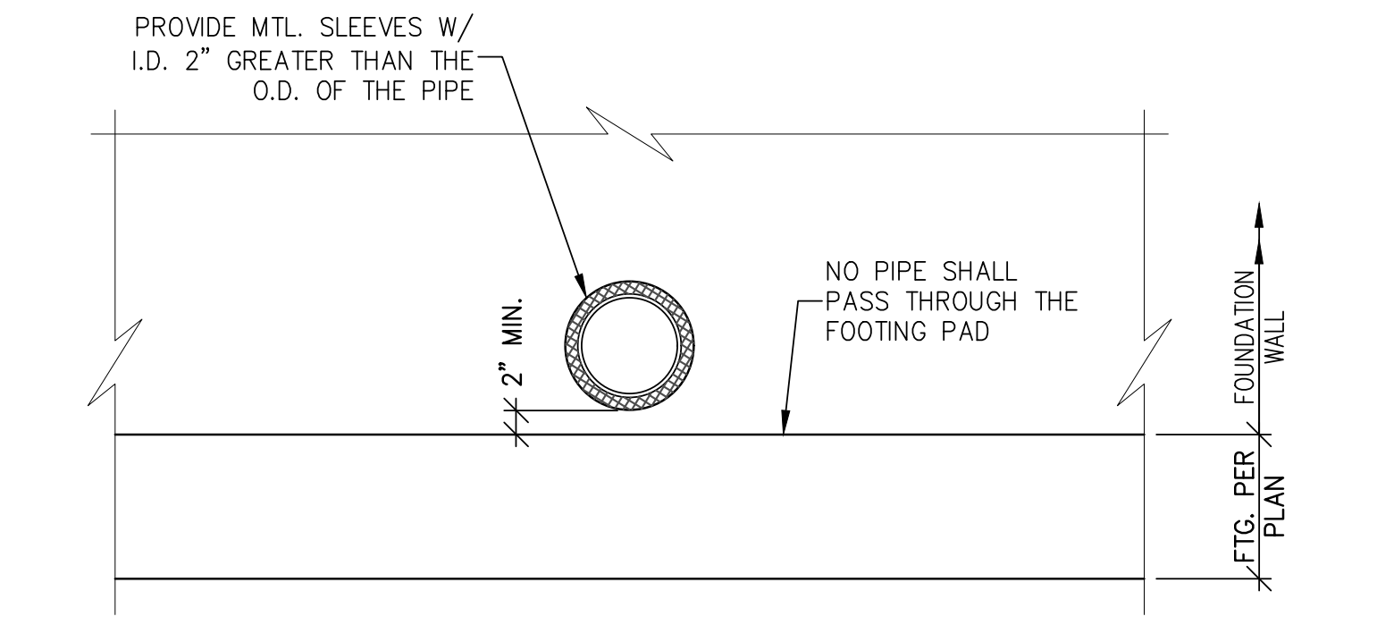
N.T.S.


(2)-#5 @ EA. QUADRANT (1)-EA. FACE.
2'-6" MIN.
(2)-#5x60" LG. @ EA. CORNER (1)-EA FACE
REINF. INTERUPTED BY OPENING
PROVIDE NUMBER OF ADDITIONAL BARS EQUAL TO THE NUMBER OF INTERUPTED BARS. PLACE 1/2 THE QUANTITY AT EA. SIDE OF OPENING. PROVIDE 1 1/2" MIN. CLEARANCE BETWEEN EA. ADDITIONAL BAR.
REINF. INTERUPTED BY OPENING
REINF. INTERUPTED BY OPENING

NOTE:
IF THE NUMBER OF INTERUPTED BARS IS AN ODD NUMBER INCREASE THE NUMBER BY ONE.

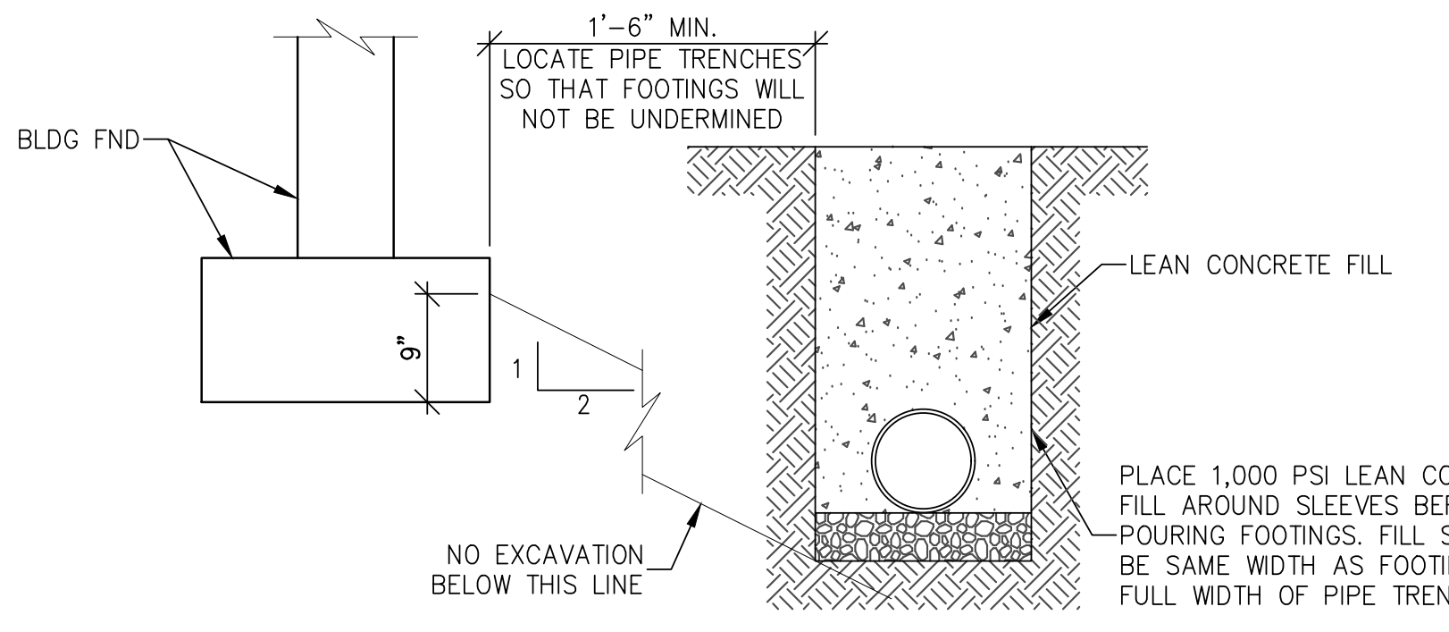
REINFORCING STEEL AT OPENINGS IN WALLS AND SLABS

N.T.S.


PROVIDE MTL. SLEEVES W/ I.D. 2" GREATER THAN THE O.D. OF THE PIPE
2" MIN.
NO PIPE SHALL PASS THROUGH THE FOOTING PAD
FOUNDATION WALL
FTG. PER PLAN

PIPE PENETRATION THROUGH FOUNDATION WALL DETAIL

N.T.S.


1'-6" MIN.
LOCATE PIPE TRENCHES SO THAT FOOTINGS WILL NOT BE UNDERMINED
BLDG FND
9"
1
2
LEAN CONCRETE FILL
NO EXCAVATION BELOW THIS LINE
PLACE 1,000 PSI LEAN CONCRETE FILL AROUND SLEEVES BEFORE POURING FOOTINGS. FILL SHALL BE SAME WIDTH AS FOOTING AND FULL WIDTH OF PIPE TRENCH

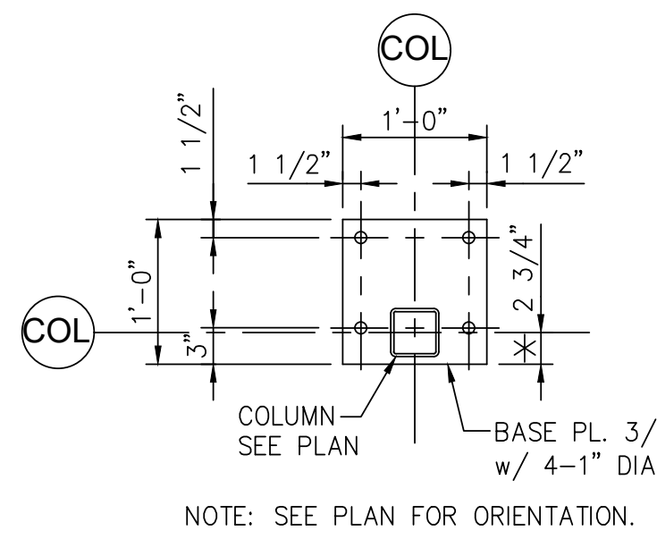
PIPE TRENCH PARALLEL TO FOUNDATION DETAIL

N.T.S.

CONCRETE		
ANCHOR DIAMETER	CONCRETE THICKNESS	ANCHOR EMBEDMENT
1/2"	3 1/2" TO 6 1/2"	2 1/4"
1/2"	GREATER THAN 6 1/2"	4 1/4"
5/8"	3 3/4" TO 7 1/2"	2 1/2"
5/8"	GREATER THAN 7 1/2"	5"
3/4"	5" TO 10"	3 1/2"
3/4"	GREATER THAN 10"	6 3/4"
7/8"	5 1/2" TO 11 1/4""	4"
7/8"	GREATER THAN 11 1/4"	7 1/2"
1"	6" TO 12 1/4""	4 1/4"
1"	GREATER THAN 12 1/4"	8 1/4"

GENERAL
- ANCHORS TO BE MINUMUM STANDARD HAS-E RODS (fy=58 ksi), UNLESS NOTED OTHERWISE
- ALL ADHESIVE ANCHORS MUST BE EMBEDED IN HOLES DRILLED TO THE DIAMETER SPECIFIED BY HILTI
- SURFACES TO BE PREPARED PER HILTI CRITERIA
- USE OF ANCHORS MUST ADHERE TO THE TEMPERATURE REQUIREMENT
- ANCHOR EMBEDMENT TO BE MAX. 1" LESS THAN CONCRETE THICKNESS.
- SEE PLAN & DETAILS FOR ANCHOR SIZES
- WHERE SPACING AND EDGE DISTANCE ARE NOT SPECIFIED, ADHERE TO MIN. SPACING & EDGE DISTANCE PER HILTI

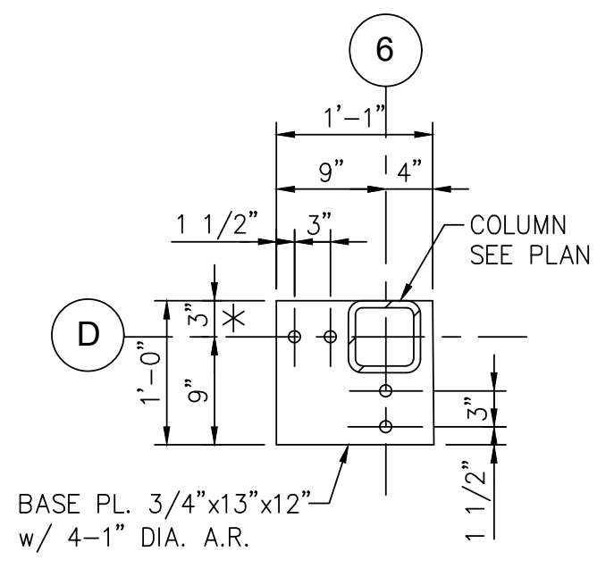
HILTI HIT HY-150 ADHESIVE ANCHORS EMBEDMENT GUIDELINES


COL
COL
1'-0"
1 1/2"
1 1/2"
1 1/2"
2 3/4"
1'-0"
3"
COLUMN SEE PLAN
BASE PL. 3/4"x12"x12" w/ 4-1" DIA. A.R.

NOTE: SEE PLAN FOR ORIENTATION.

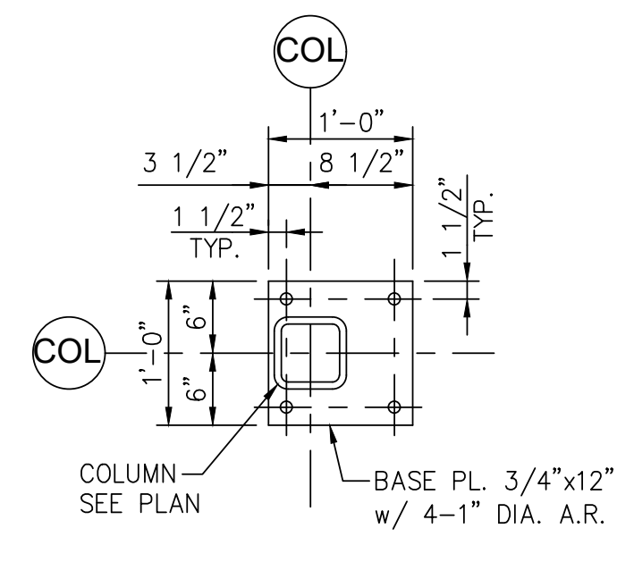
BASE PLATE DETAIL AT COL. C.7-2

3/4"=1'-0" S3.1


6
D
1'-1"
9"
4"
1 1/2"
3"
COLUMN SEE PLAN
3"
9"
1'-0"
3"
1 1/2"
BASE PL. 3/4"x13"x12" w/ 4-1" DIA. A.R.

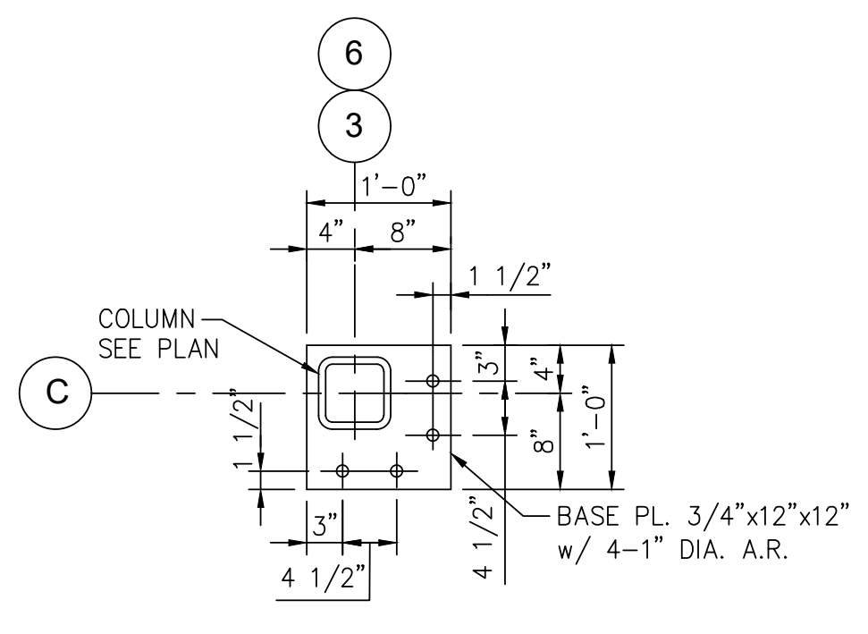
BASE PLATE DETAIL AT COL. D-4

3/4"=1'-0" S3.1


COL
COL
1'-0"
3 1/2"
8 1/2"
1 1/2" TYP.
1 1/2" TYP.
6"
6"
1'-0"
COLUMN SEE PLAN
BASE PL. 3/4"x12"x12" w/ 4-1" DIA. A.R.

BASE PLATE DETAIL AT COL. C-3, C.7-2

3/4"=1'-0" S3.1


6
3
C
1'-0"
4"
8"
1 1/2"
COLUMN SEE PLAN
1 1/2"
3"
4"
8"
1'-0"
3"
4 1/2"
4 1/2"
BASE PL. 3/4"x12"x12" w/ 4-1" DIA. A.R.

BASE PLATE DETAIL AT COL. C-2 COL. C-4 OPP. HAND

3/4"=1'-0" S3.1

Additive CSI Format

Section 033000

1.01 SUMMARY

A. Section Includes: Furnishing of all labor, materials, services and equipment necessary for the supply and installation of crystalline waterproofing additive to concrete as indicated on the drawings and as specified herein.

B. *Related Sections:*

1. Section 031000 - Concrete Forming
2. Section 032000 - Concrete Reinforcement
3. Section 031516 - Concrete Construction Joints
4. Section 033713 - Shotcrete
5. Section 034000 - Precast Concrete
6. Section 071616 - Crystalline Coatings
7. Section 079000 - Joint Protection

1.02 REFERENCES

A. Applicable Standards: The following standards are referenced herein.

1. American Society for Testing and Materials (ASTM)
2. Army Corps of Engineers (CRD)
3. American Concrete Institute (ACI)
4. American National Standards Institute (ANSI)
5. NSF International
6. European Standards (EN)
7. Drinking Water Inspectorate (DWI)

1.03 SYSTEM DESCRIPTION

A. Crystalline Waterproofing Additive: Concrete waterproofing and protection system shall be of the crystalline type that chemically controls and permanently fixes a non-soluble crystalline structure within the pores and capillary tracts of the concrete. The crystalline system causes the concrete to become sealed against the penetration of liquids from any direction, and protects the concrete from deterioration due to harsh environmental conditions. The system is used for above or below-grade walls and slabs, including liquid retaining structures and where enhanced chemical resistance is required.

1.04 SYSTEM PERFORMANCE REQUIREMENTS

A. Testing Requirements: Crystalline waterproofing system shall have been be tested in accordance with the following standards and conditions, and the testing results shall meet or exceed the performance requirements as specified herein.

B. Independent Laboratory: Testing shall have been performed by an accredited independent laboratory meeting the requirements of ASTM E 329 or other applicable international standard for certification of testing laboratories. Testing laboratory shall have obtained all control and treated concrete samples.

C. Crystalline Formation: Crystalline capability of waterproofing system shall be evidenced by independent SEM (Scanning Electron Microscope) photographs showing crystalline formation within the concrete matrix.

D. Permeability 1: Independent testing shall be performed according to U.S. Army Corps of Engineers CRD-C48 (Mod.) "Permeability of Concrete". Concrete samples shall be pressure tested to 150 psi (350 foot head of water or 1.05 MPa/106 m head of water). After 5 days the untreated samples shall show measurable leakage and the treated samples shall exhibit no measurable leakage.

E. Permeability 2: Independent testing shall be performed according to EN 12390-8. Treated samples shall be exposed to water with a pressure of 0.5 MPa for 72 hours. Treated samples must exhibit a reduction in permeability coefficient of at least 80% when compared to control concrete. Control samples must have a depth of penetration of at least 50 mm.

F. Sulfuric Acid Resistance: Independent testing shall be performed to determine the "Sulfuric Acid Resistance of Concrete Specimens". Treated concrete samples dosed at 3% shall be tested against untreated control samples. All samples shall be immersed in 7% sulfuric acid and weighed daily until control samples reach a mass loss of 50%. On inspection the percentage mass loss of the treated samples shall be significantly lower than the control samples.

G. Sulfate Resistance: Independent testing shall be performed to determine the "Sulfate Resistance of Concrete Specimens" treated with integral crystalline admixture. Treated and untreated samples shall be immersed in a concentrated sulfate solution for at least 4 months. On inspection the percentage mass loss of the treated samples shall be significantly lower than the control samples.

H. Compressive Strength: Concrete samples containing the crystalline waterproofing additive shall be tested against an untreated control sample of the same mix. At 28 days, the treated samples shall exhibit equal or increased compressive strength over the control sample.

I. Potable Water Approval: Waterproofing materials shall have current, valid approval certificate from NSF (NSF 61), DWI, or other recognized certification agency.

1.05 SUBMITTALS

A. General: Submit listed submittals in accordance with conditions of the Contract and with Division 1 Submittal Procedures Section.

B. Product Data: Submit product data, including manufacturer's specifications, installation instructions, and general recommendations for waterproofing applications.

C. Test Reports: Submit, for acceptance, complete test reports from approved independent testing laboratories certifying that waterproofing system conforms to performance characteristics and testing requirements specified herein.

D. Manufacturer's Certification: Provide document signed by manufacturer or manufacturer's representative certifying that the materials to be installed comply with the requirements of this specification.

1.06 QUALITY ASSURANCE

A. Manufacturer Qualifications: Manufacturer to be ISO 9001 registered, and to have no less than 10 years experience in manufacturing the crystalline waterproofing additive for the required work. Manufacturer must be capable of providing field service representation during construction phase. Manufacturers who cannot provide on-going field support or who cannot provide the performance test data specified herein shall not be considered for the project.

B. Installer: Ready-mix supplier and/or installer of crystalline waterproofing additive shall be approved by the manufacturer or manufacturer's representative in writing.

C. Pre-Installation Conference: Prior to installation of waterproofing system, conduct meeting with Architect/Engineer, owner's representative, concrete supplier, concrete placer and waterproofing manufacturer's representative to verify and review the following:

1. Project requirements for waterproofing as set out in Contract Documents.
2. Manufacturer's product data including mixing and installation instructions.

D. Technical Consultation: The waterproofing manufacturer's representative shall provide technical consultation on waterproofing applications and shall provide on-site support as needed.

1.07 DELIVERY, STORAGE AND HANDLING

A. Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.

B. Delivery: Deliver packaged waterproofing materials to project site in original undamaged containers, with manufacturer's labels and seals intact.

C. Storage: Store waterproofing materials in dry, enclosed location, at a minimum temperature of 45 °F (7 °C).

1.08 WARRANTY

A. Project Warranty: Refer to conditions of the Contract for project warranty provisions.

B. Manufacturer's Warranty: Manufacturer shall provide standard product warranty executed by authorized company official.

PART 2 – PRODUCTS

2.01 MATERIALS

A. *Acceptable Manufacturer:*

Xypex Chemical Corporation
13731 Mayfield Place, Richmond, B.C., Canada V6V 2G9
Tel: 800 961.4477 or 604 273.5265 Fax: 604 270.0451
E-mail: info@xypex.com Website: www.xypex.com

Note: Acceptable manufacturers include licensed manufacturing operations of Xypex Chemical Corporation.

B. Proprietary Products: Xypex crystalline waterproofing materials as follows:

1. Xypex Admix C-500 / C-500NF
2. Xypex Admix C-1000 / C1000NF
3. Xypex Admix C-2000 / C2000NF
4. Xypex Concentrate
5. Xypex Patch'n' Plug

C. Substitutions: No substitutions permitted.

D. Source Quality: Obtain all proprietary crystalline waterproofing products from a single manufacturer.

2.02 DOSAGE

A. General: Xypex Admix must be added to concrete mix at time of batching.

B. Dosage Rate: Under normal conditions, the crystalline waterproofing powder shall be added to the concrete mix at the following rates:

1. Xypex Admix C-500 2% – 3% by weight of cement content
2. Xypex Admix C-1000 2% – 3% by weight of cement content
3. Xypex Admix C-2000 2% by weight of cement content

For Xypex Admix NF Series dosage rates are 1% - 1.5% by weight of cement content.

Note: For enhanced chemical protection or for meeting specific project requirements or where the concrete mix design contains greater than 25% type F fly ash content or includes a Portland cement/slag cement/type C fly ash blend, consult with a manufacturer or its authorized representative to determine the appropriate dosage rates.

PART 3 – EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

A. Compliance: Comply with manufacturer's product data regarding installation, including technical bulletins, product catalogue, installation instructions and product packaging labels.

3.02 PROJECT CONDITIONS

A. Crack Control: All reinforcement shall be in accordance with applicable standards. Concrete elements shall be designed and constructed to minimize and control cracking.

B. Setting Time and Strength: Some delay of set may occur when using Xypex Admix products. The amount of set delay will depend upon the concrete mix design, the particular Admix product used, dosage rate of the Admix, temperature of the concrete and climatic conditions. Concrete containing a Xypex Admix product may develop higher ultimate strengths than plain concrete. Conduct trial mixes under project conditions to determine setting time and strength of the concrete. Consult with a manufacturer or manufacturer's representative regarding concrete mix design, project conditions and proper dosage rate.

C. Weather Conditions: For mixing, transporting and placing concrete under conditions of high temperature or low temperature, follow concrete practices such as those referred to in ACI 305R (Hot Weather Concreting) and ACI 306R (Cold Weather Concreting) or other applicable standards.

3.03 APPLICATION

A. General: Xypex Admix is added to the concrete at the time of batching. It is important to obtain a homogeneous mixture of Xypex Admix with the concrete. Do not add dry Admix powder directly to wet mixed concrete as this could cause clumping and thorough dispersion may not occur.

B. Concrete Batching & Mixing: Procedures for addition of Xypex Admix will vary according to type of batch plant operation and equipment.

1. Addition to Coarse Aggregate Belt: Add Xypex Admix powder directly to the course aggregate conveyor belt manually or through computer controlled admix batching system. Account for proper health and safety issues relating to moving belts and wind-blown dust.

2. Addition to Ready Mixed Truck at Plant: Add Xypex Admix in bulk powder or soluble bag form to the drum of the ready-mix truck immediately prior to driving the truck under the batch plant. Then add the balance of the materials for the prescribed concrete in accordance with standard concrete batching practices. Take measures to ensure that soluble bags are dispersed properly. Such measures can include: adding the bags as far forward in the drum as possible, back adding a small amount of batch water along with the bags, and spinning the drum prior to adding remaining components. Avoid delaying adding other components and utilize high speed mixing to ensure homogeneity of mix. Where there may be insufficient water for thorough dispersion of the bulk powder, mix the Admix powder with water to form a slurry and add to the truck mixer drum prior to batching. Account for added water in the mix design and slump.

3. Addition to Central Mixer: Load the Xypex Admix in bulk powder form or in soluble bag form along with the other components. Mix in accordance with standard batching practices to ensure thorough dispersion and a homogeneous mixture. Account for proper safety issues when accessing the equipment.

4. Precast Batch Plant - Pan Type Mixer: Add Xypex Admix to the rock and sand, then mix thoroughly for 2 - 3 minutes before adding the cement and water. The total concrete mass should be blended using standard practices.

Note 1: While it is preferable to initiate Xypex Admix at the batch plant, when necessary, a slurry mixture containing the Admix can be added on site to the ready mix truck. To create a slurry, mix 5 parts Admix powder to 3 parts water by volume. Use a water to powder ratio of 0.67 by mass. Following addition to the drum, mix concrete for a minimum of 5 minutes on high speed or until thoroughly dispersed. Account for added water in the mix design and slump.

Note 2: Consult with local Xypex Technical Services Representative concerning additional procedures for addition and mixing.

C. Construction and Cold Joints: In addition to specified waterstops, apply one coat of Xypex Concentrate slurry at a rate of 2 lb./sq. yd. (1 kg/m2) to joint surfaces between concrete pours. Moisten surfaces prior to slurry application. Apply slurry and keep moist for 12 hours then allow slurry to set or dry. Where joint surfaces are not accessible prior to pouring new concrete, contact Xypex Technical Services Representative for assistance.

Note: Inclusion, type and location of waterstops are at the discretion of the designer. Expanding waterstops may be placed on Xypex after it has dried or before Xypex slurry application. Xypex slurry may only be applied over waterstops approved by waterstop manufacturer.

D. Sealing Strips: Where hydrostatic conditions exist, sealing strips shall also be installed at construction joints by using grooves that are created along the joints. Dimensions of the grooves should be 1 inch (25 mm) wide and 1.5 inches (37 mm) deep. If grooves have not been pre-formed then chase grooves to those dimensions. Fill the grooves as follows:

1. Apply slurry coat of Xypex Concentrate to slot in accordance with manufacturer's instructions or recommendations.
2. While slurry coat is still tacky, fill slot with Xypex Concentrate Dry-Pac.
3. Compact tightly using pneumatic packer or hammer and block.
4. Wet Dry-Pac surface lightly with water, then apply a slurry coat of Xypex Concentrate at a coverage rate of 1.5 – 2 lb./sq. yd. (0.8 – 1 kg/m2) over sealing strip and extending to 6" (150 mm) on either side.

Note: For further information, see Xypex Schematic Drawings for standard construction joint details.

E. Form Tie Holes: Form tie holes shall be waterproofed in accordance with manufacturer's technical literature including relevant Method Statements (www.xypex.com/technical/statements). Procedures are generally as follows:

1. Prepare the tie hole to create a straight sided void with a profile of at least ICRI CSP-3. For through element tie holes such as those created by taper ties the prepared void is to be at least 5" (125 mm) deep. For cone ties the void is to be to the bottom of the cone.
2. Clean and profile the area to 6 inch (150 mm) diameter around the tie hole to an ICRI CSP-3 profile.
3. For through-element tie holes create a solid plug of material at the bottom of the profiled hole using Xypex Patch'n Plug leaving at least 4" (100 mm) of empty tie hole from the top of the plug to the surface of the concrete element.
4. Apply a coat of Xypex Concentrate slurry at a rate of 1.5 lb./sq. yd. (0.8 kg/m2) to the inside of the tie hole and to a 12" (300 mm) diameter area around the hole.
5. Fill and compact the tie hole with Xypex Concentrate Dry-Pac.
6. Wet Dry-Pac surface lightly with water, then apply a slurry coat of Xypex Concentrate at a coverage rate of 1.5 - 2 lb. /sq. yd. (0.8 - 1 kg/m2) over the repaired area to a 12" (300 mm) diameter area around the filled void.

F. Repair of Defects: Concrete defects shall be repaired in accordance with manufacturer's technical literature including relevant Method Statements (www.xypex.com/technical/statements). Procedures are generally as follows:

1. Cracks and Faulty Construction Joints:
   a. Chisel out cracks, faulty construction joints and other defects to a depth of 1.5 inches (37 mm) and a width of one inch (25 mm). A "V" shaped slot is not acceptable. The slot may be saw cut instead of chiseled but ensure that the slot is dovetailed or otherwise shaped such that there will be mechanical interlocking of materials placed into the slot at a later stage.
   b. Clean slot of debris and dust. Soak area with water and remove excess surface water. Apply a slurry coat of Xypex Concentrate at the rate of 1.5 lb./sq. yd. (0.8 kg/m2) to the slot.
   c. While slurry coat is still tacky, fill cavity with Dry-Pac. Compress tightly into cavity using pneumatic packer or block and hammer.
   d. Wet Dry-Pac surface lightly with water, then apply a slurry coat of Xypex Concentrate at a coverage rate of 1.5 – 2 lb./sq. yd. (0.8 – 1 kg/m2) over the repaired area to 6" (150 mm) on either side of slot.
2. Rock Pockets, Honeycombing or other defective concrete: Areas of poor concrete consolidation (honeycomb or rock pockets) shall be repaired.

Note: Where there is active water-flow see Method Statements or contact Xypex Technical Services Representative for assistance.

3.04 Placing

A. Concrete Placement: Concrete placement shall be in accordance with "309R: Guide for Consolidation of Concrete" or other applicable standard. Special attention is to be given to consolidation at joints, penetrations and other potential leakage locations.

3.05 CURING

A. General: Concrete containing Xypex Admix shall be moist cured in accordance with ACI 308, "Standard Practice for Curing Concrete" or other applicable standard.

B. Curing Compounds: Curing compounds may be used in the event that project requirements or conditions prevent moist curing. Curing compounds must comply with ASTM C-309 or other applicable standard.

3.06 PROTECTION

A. Protection: Protect installed product and finished surfaces from damage during construction.

3.07 FIELD QUALITY CONTROL

A. Examination for Defects: Do not conceal Xypex treated concrete before it has been observed by Architect/Engineer, waterproofing manufacturer's representative or other designated entities. Concrete shall be examined for structural defects such as honeycombing, rock pockets, tie holes, faulty construction joints, cold joints and cracks larger than 1/64" (0.4 mm). Such defects to be repaired in accordance with manufacturer's repair procedures as noted above.

B. *Testing for Tanks and Foundation Works*

1. Testing: Fill tank or, for foundation works, shut off dewatering system as soon as practical so that the structure shall be exposed to it's normal service conditions. Examine for leaks.
2. Monitoring:
   a. Actively seeping cracks and joints shall be left to self-seal for as long as practical. Depending on job site and ambient conditions cracks sealing can be expected to take several days to weeks.
   b. Any cracks or joints that do not seal in the allowable time frame shall be repaired.
   c. Moving cracks shall be repaired using polyurethane injection or other appropriate method.
3. Repair: Use Xypex repair procedures to seal any static cracks or joint that does not self-seal. See Method Statements (www.xypex.com/technical/statements) or contact Xypex Technical Services Representative for appropriate repair procedures.

Note: Lower temperatures will extend the time for crystalline development.

3.08 INTERACTION WITH OTHER MATERIALS

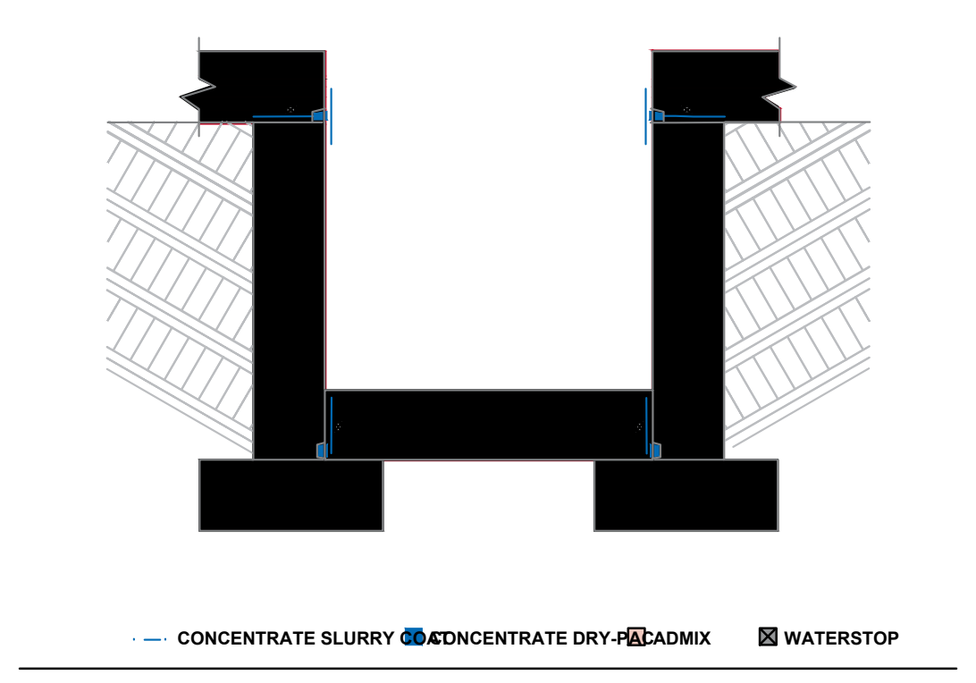
A. Backfilling: Normal backfilling procedures may be used after concrete has been cured.

B. *Paint, Epoxy, Grout, Cement Parge Coat, Plaster or Stucco: Xypex Admix treatment* of concrete does not adversely affect the bond of subsequently applied materials. Follow surface preparation and other relevant directions of the coating or parge manufacturer.

C. Responsibility to Ensure Compatibility: Xypex Admix products are compatible with most admixtures used in the production of quality concrete. However, Xypex Chemical Corporation makes no representations or warranties regarding such compatibility of Xypex Admix products with other additives or admixtures. It shall be the responsibility of the concrete contractor to take whatever measures are necessary, including testing, to ensure compatibility of the Xypex Admix with other additives or admixtures being used in the concrete mix, and it shall be the responsibility of the installer of the surface-applied material that is to be applied over the Xypex treated concrete to take whatever measures are necessary, including testing, to ensure acceptance by or adhesion to the Xypex treated concrete.

XYPEX

ELEVATOR PIT / SUMP PIT


CONCENTRATE SLURRY COAT
CONCENTRATE DRY-PAC
ADMIX
WATERSTOP

STEP 1: Clean joint thoroughly. Between pours apply Xypex Concentrate slurry to joint surface at the rate of 2.0 lb./sq.yd. (1.0 kg/m2).

STEP 2: Where the bottom slab will contact the wall, modify the formwork to create a linear groove in the finished concrete surface. The linear groove is to be aligned with the bottom of the slab. The linear groove is to be 1½" (37 mm) high by 1" (25 mm) deep.

STEP 3: Apply slurry of Xypex Concentrate at 2.0 lb./sq.yd. (1.0 kg/m2) over sealing strip and extending to the surfaces of contact with the slab.

STEP 4: Pour Xypex Admix treated concrete and cure in accordance with ACI, EN or other accepted quality concreting authority. Strip forms including forms for linear groove.

STEP 5: Clean linear groove thoroughly. Apply Xypex Concentrate slurry to the linear groove at the rate of 1.5 lb./sq.yd. (0.8 kg/m2). Fill linear groove with Xypex Concentrate Dry-Pac and pack tightly to create the Xypex "sealing strip".

STEP 6: At the bottom of the upper slab to wall construction joint modify the forms to create a linear groove in the finished concrete surface. The linear groove is to be 1" (25 mm) high by 1½" (37 mm) deep.

STEP 7: Pour concrete and strip forms. Clean linear groove thoroughly. Apply Xypex Concentrate slurry to the linear groove at the rate of 1.5 lb./sq.yd. (0.8 kg/m2). Fill linear groove with Xypex Concentrate Dry-Pac and pack tightly to create the Xypex "sealing strip".

STEP 8: Apply Xypex Concentrate slurry at the rate of 1.5 lb./sq.yd. (0.8 kg/m2) over sealing strip and extending to 6" (150 mm) on either side. Cure for 48 - 72 hours in accordance with normal Xypex coating curing procedures.

Note 1: Schematic diagrams show Xypex application and waterstops. Inclusion, type and location of waterstops are at the discretion of the designer. Expanding waterstops may be placed on Xypex after it has dried or before Xypex slurry application. Xypex slurry may only be applied over waterstops approved by waterstop manufacturer.

Note 2: Keyways may be incorporated into the joint design at the discretion of the designer.

Note 3: Xypex Admix may be considered for footings to protect the concrete and thus extend the service life of the structure.

Note 4: Schematic drawings show Xypex Admix application. Specifier may consider the alternative use of Xypex dry shake (DS-Series) or Xypex coatings, where applicable. Refer to Xypex Standard Specifications for more information.

NO.	REVISION DESCRIPTION	DATE

ENGINEER SEAL: 3/22/19

VonArx Engineering
10785 BUSINESS 21, SUITE A
HILLSBORO, MISSOURI 63050
CERTIFICATE OF AUTHORITY 0975
OFFICE: 636-797-8425

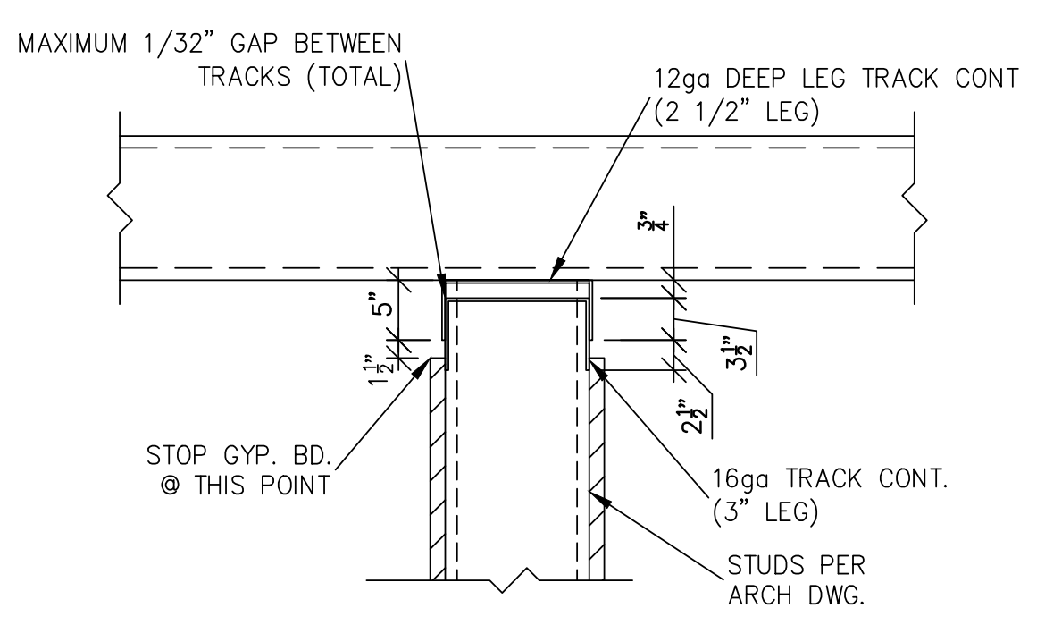
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

STANDARD DETAILS & SPECS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

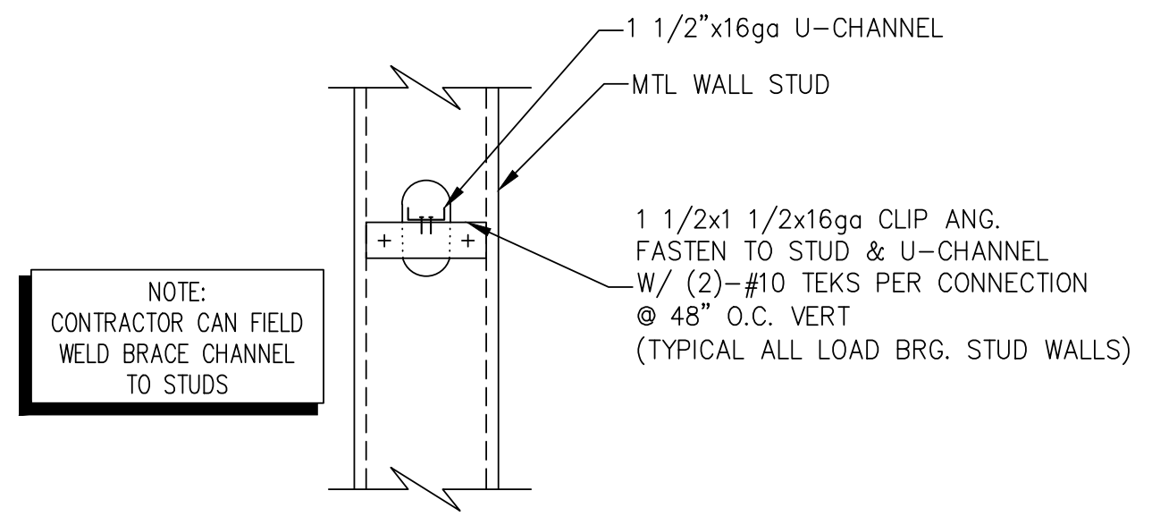
DRAWN BY: E. Fletcher
CHECKED BY: D. VonArx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

S2.1


MAXIMUM 1/32" GAP BETWEEN TRACKS (TOTAL)
12ga DEEP LEG TRACK CONT (2 1/2" LEG)
STOP GYP. BD. @ THIS POINT
16ga TRACK CONT. (3" LEG)
STUDS PER ARCH DWG.

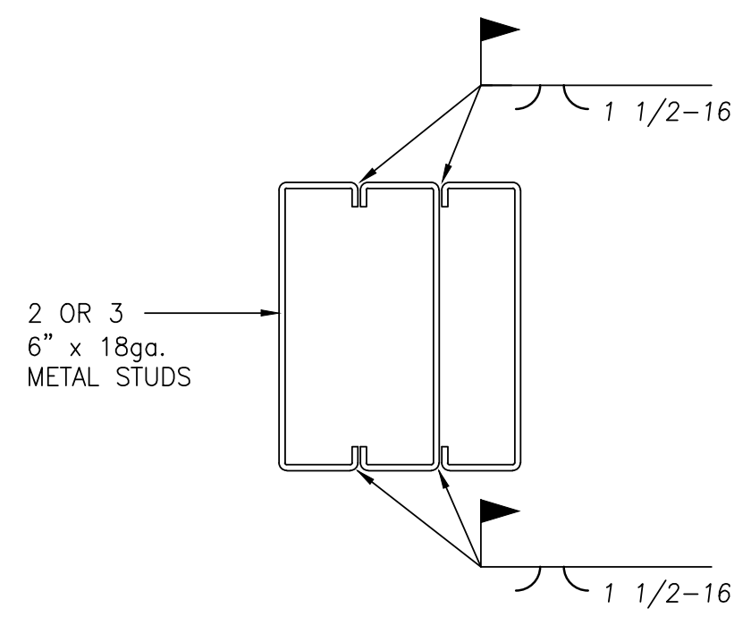
TYPICAL VERTICAL SLIDE TRACK DETAIL

N.T.S.

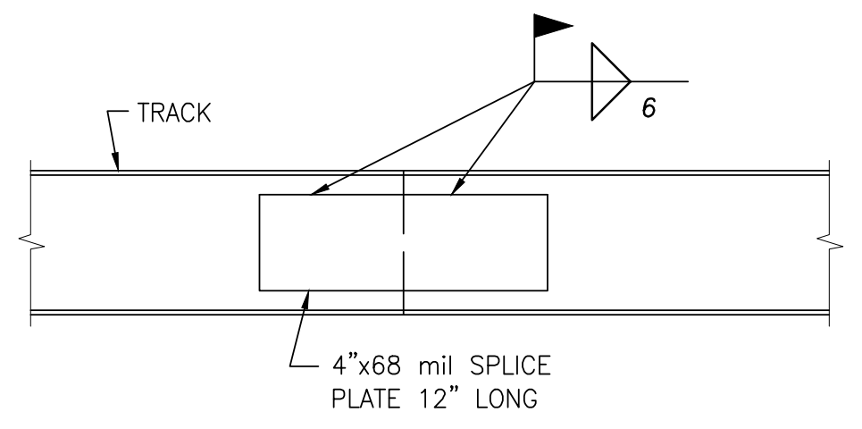

1 1/2"x16ga U-CHANNEL
MTL WALL STUD
1 1/2x1 1/2x16ga CLIP ANG. FASTEN TO STUD & U-CHANNEL W/ (2)-#10 TEKS PER CONNECTION @ 48" O.C. VERT (TYPICAL ALL LOAD BRG. STUD WALLS)
NOTE: CONTRACTOR CAN FIELD WELD BRACE CHANNEL TO STUDS.

TYPICAL MTL STUD BRACE CHANNEL

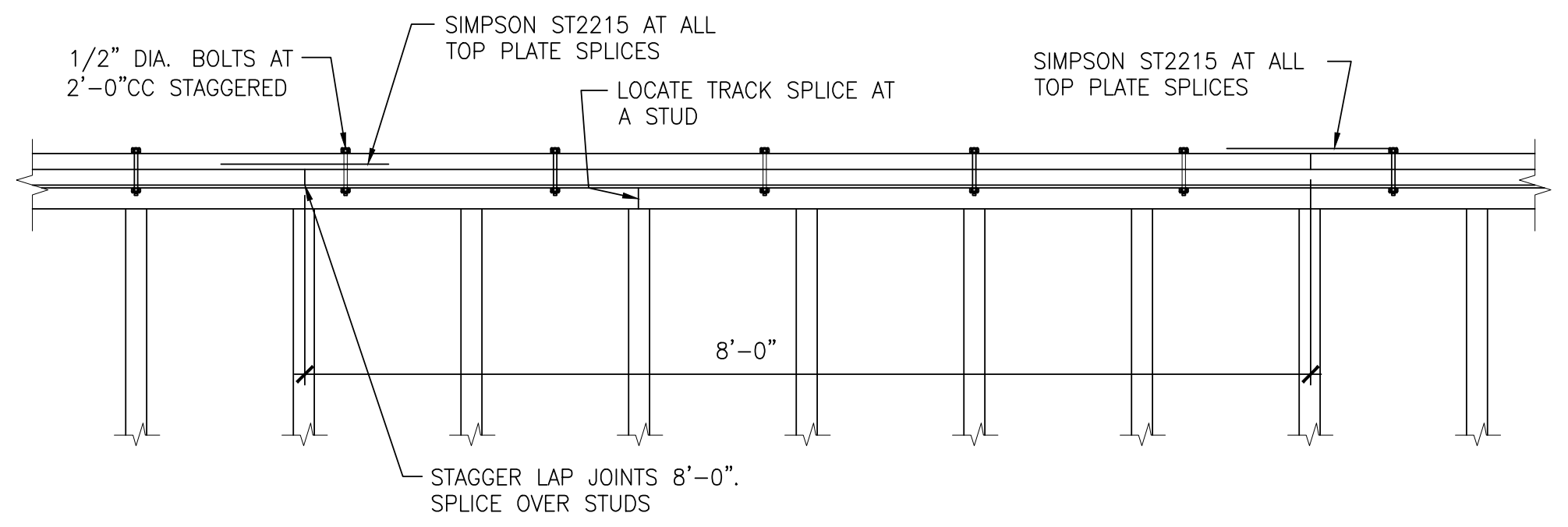
N.T.S.


1 1/2-16
2 OR 3 6" x 18ga. METAL STUDS
1 1/2-16

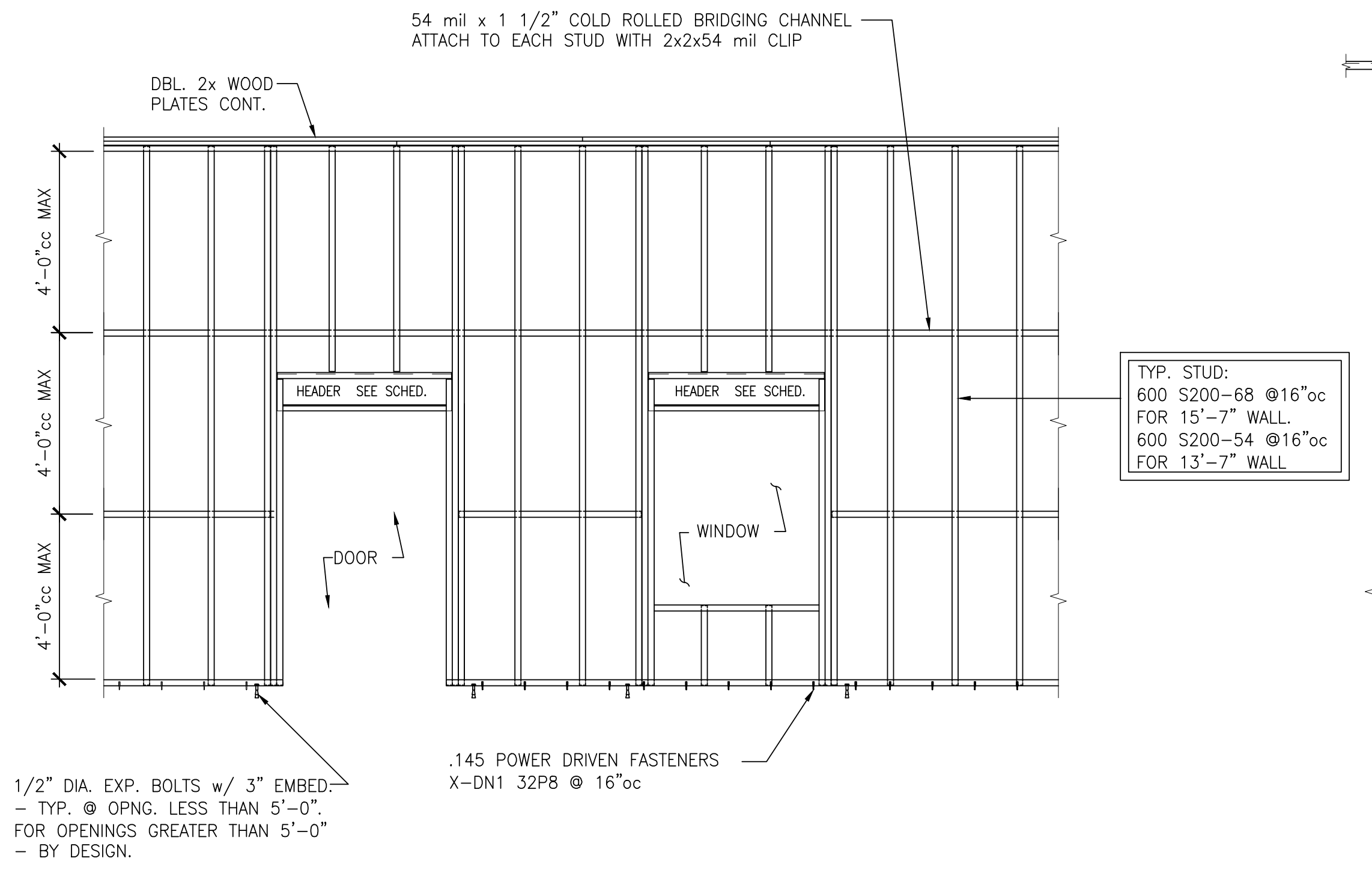
TYPICAL BOXED COLUMN


TRACK
6
4"x68 mil SPLICE PLATE 12" LONG

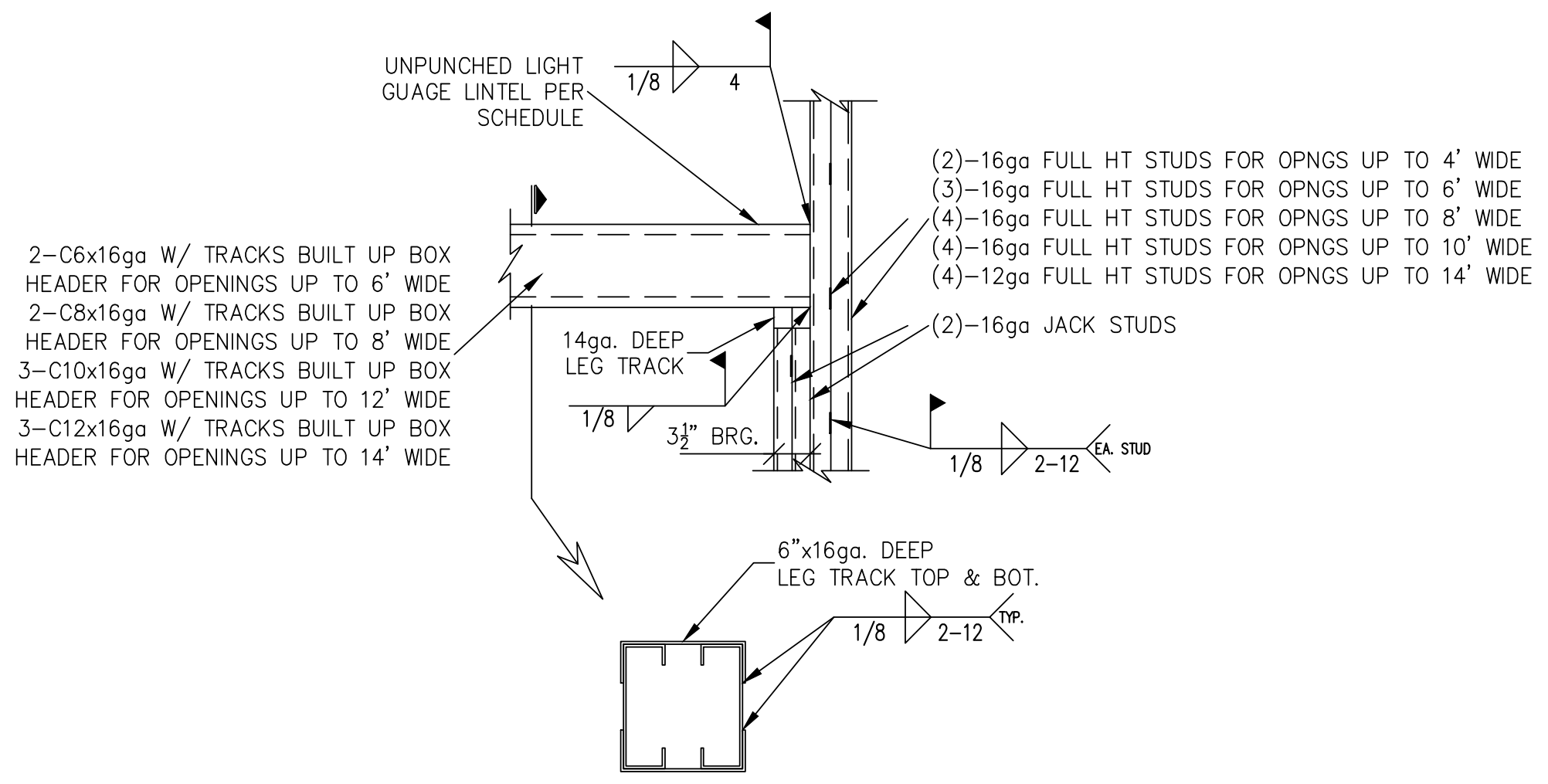
TRACK SPLICE DETAIL


1/2" DIA. BOLTS AT 2'-0"CC STAGGERED
SIMPSON ST2215 AT ALL TOP PLATE SPLICES
LOCATE TRACK SPLICE AT A STUD
SIMPSON ST2215 AT ALL TOP PLATE SPLICES
8'-0"
STAGGER LAP JOINTS 8'-0". SPLICE OVER STUDS

TYPICAL BEARING WALL TOP PLATE SPLICE


54 mil x 1 1/2" COLD ROLLED BRIDGING CHANNEL ATTACH TO EACH STUD WITH 2x2x54 mil CLIP
DBL. 2x WOOD PLATES CONT.
4'-0"cc MAX.
4'-0"cc MAX.
4'-0"cc MAX.
HEADER SEE SCHED.
HEADER SEE SCHED.
DOOR
WINDOW
TYP. STUD: 600 S200-68 @16"oc FOR 15'-7" WALL. 600 S200-54 @16"oc FOR 13'-7" WALL
1/2" DIA. EXP. BOLTS w/ 3" EMBED. - TYP. @ OPNG. LESS THAN 5'-0". FOR OPENINGS GREATER THAN 5'-0" - BY DESIGN.
.145 POWER DRIVEN FASTENERS X-DN1 32P8 @ 16"oc

TYPICAL LOAD BEARING STUD EXTERIOR WALL


UNPUNCHED LIGHT GUAGE LINTEL PER SCHEDULE
1/8 4
(2)-16ga FULL HT STUDS FOR OPNGS UP TO 4' WIDE
(3)-16ga FULL HT STUDS FOR OPNGS UP TO 6' WIDE
(4)-16ga FULL HT STUDS FOR OPNGS UP TO 8' WIDE
(4)-16ga FULL HT STUDS FOR OPNGS UP TO 10' WIDE
(4)-12ga FULL HT STUDS FOR OPNGS UP TO 14' WIDE
(2)-16ga JACK STUDS
2-C6x16ga W/ TRACKS BUILT UP BOX HEADER FOR OPENINGS UP TO 6' WIDE
2-C8x16ga W/ TRACKS BUILT UP BOX HEADER FOR OPENINGS UP TO 8' WIDE
3-C10x16ga W/ TRACKS BUILT UP BOX HEADER FOR OPENINGS UP TO 12' WIDE
3-C12x16ga W/ TRACKS BUILT UP BOX HEADER FOR OPENINGS UP TO 14' WIDE
14ga. DEEP LEG TRACK
1/8
3 1/2" BRG.
1/8 2-12 EA. STUD
6"x16ga. DEEP LEG TRACK TOP & BOT.
1/8 2-12 TYP.

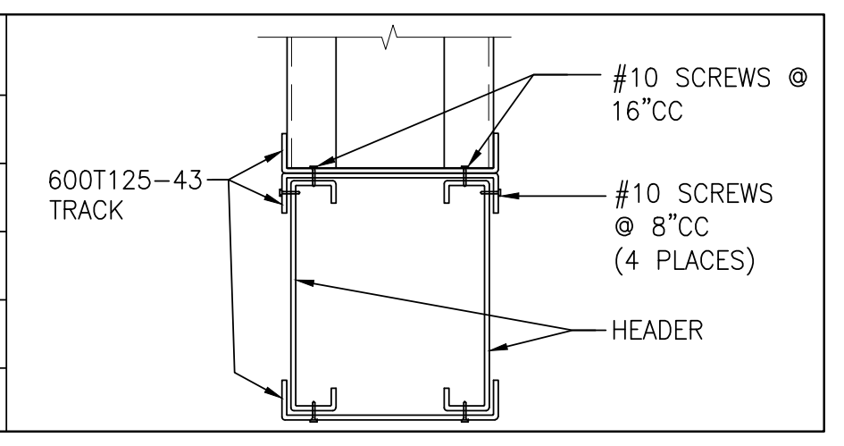
TYPICAL LINTEL DETAIL @ METAL STUD WALL

N.T.S.

TYPE	RATED SHEATHING THICKNESS & LOCATION	#10 SCREWS SPACING PANEL EDGES	#10 SCREWS SPACING INTERMEDIATE	HOLD DOWNS EACH END	HOLD DOWN ROD (A307)	ANCHOR EMBEDMENT	SILL BOLTS
A	15/32 EXTERIOR SIDE	6"cc	12"cc	SIMPSON S/HD8	7/8" DIA.	10"	3/8" DIA. @ 16"cc
B	15/32 EXTERIOR SIDE	4"cc	12"cc	SIMPSON S/HD8	7/8" DIA.	10"	3/8" DIA. @ 16"cc
C	15/32 EXTERIOR SIDE	2"cc	12"cc	SIMPSON S/HD8	7/8" DIA.	10"	3/8" DIA. @ 16"cc

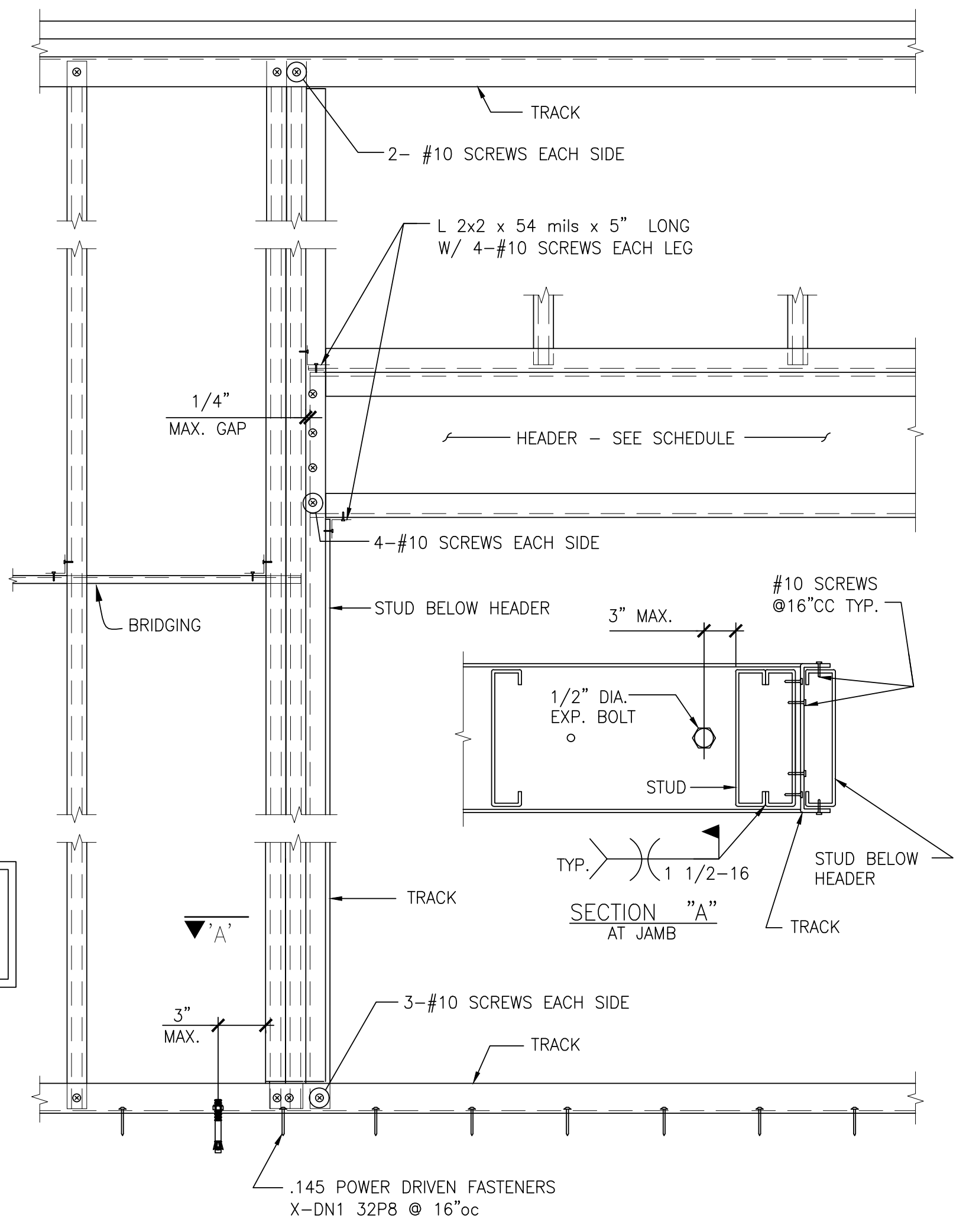
METAL STUD SHEARWALL SCHEDULE

TYPE	OPENING WIDTH	HEADER
H1	1'-0" TO 4'-0"	600S162-43
H2	4'-1" TO 8'-0"	800S162-54
H3	8'-1" TO 9'-4"	1200S162-68
H4	9'-5" TO 10'-4"	1400S162-68

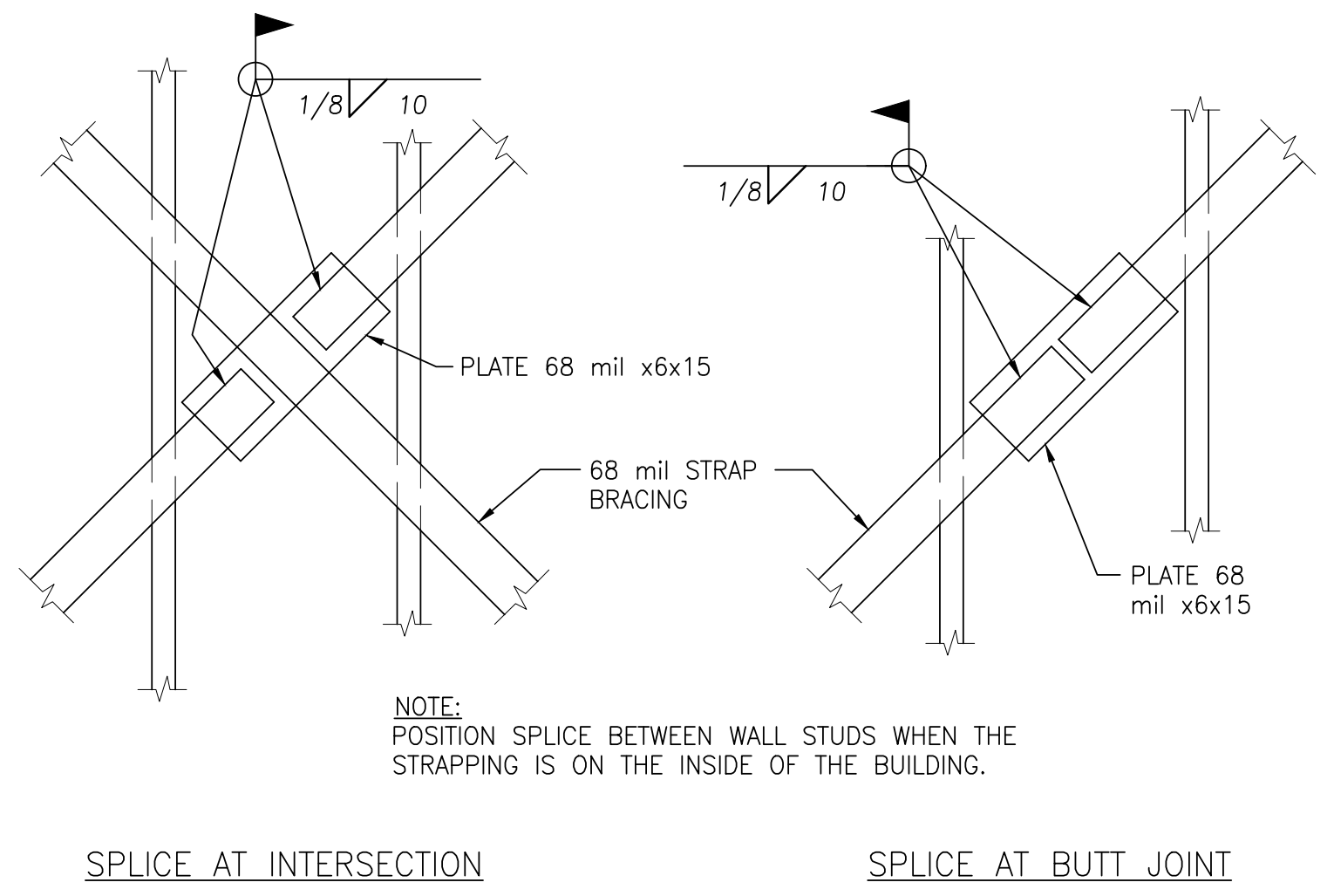

600T125-43 TRACK
#10 SCREWS @ 16"CC
#10 SCREWS @ 8"CC (4 PLACES)
HEADER

NOTE: SEE SHEAR WALL ELEVATIONS ON SHEET S5.0.

EXTERIOR WALL HEADER SCHEDULE


TRACK
2- #10 SCREWS EACH SIDE
L 2x2 x 54 mils x 5" LONG W/ 4-#10 SCREWS EACH LEG
1/4" MAX. GAP
HEADER - SEE SCHEDULE
4-#10 SCREWS EACH SIDE
BRIDGING
STUD BELOW HEADER
3" MAX.
#10 SCREWS @16"CC TYP.
1/2" DIA. EXP. BOLT
STUD
TYP.
1 1/2-16
STUD BELOW HEADER
TRACK
SECTION "A" AT JAMB
TRACK
A
3" MAX.
3-#10 SCREWS EACH SIDE
TRACK
.145 POWER DRIVEN FASTENERS X-DN1 32P8 @ 16"oc

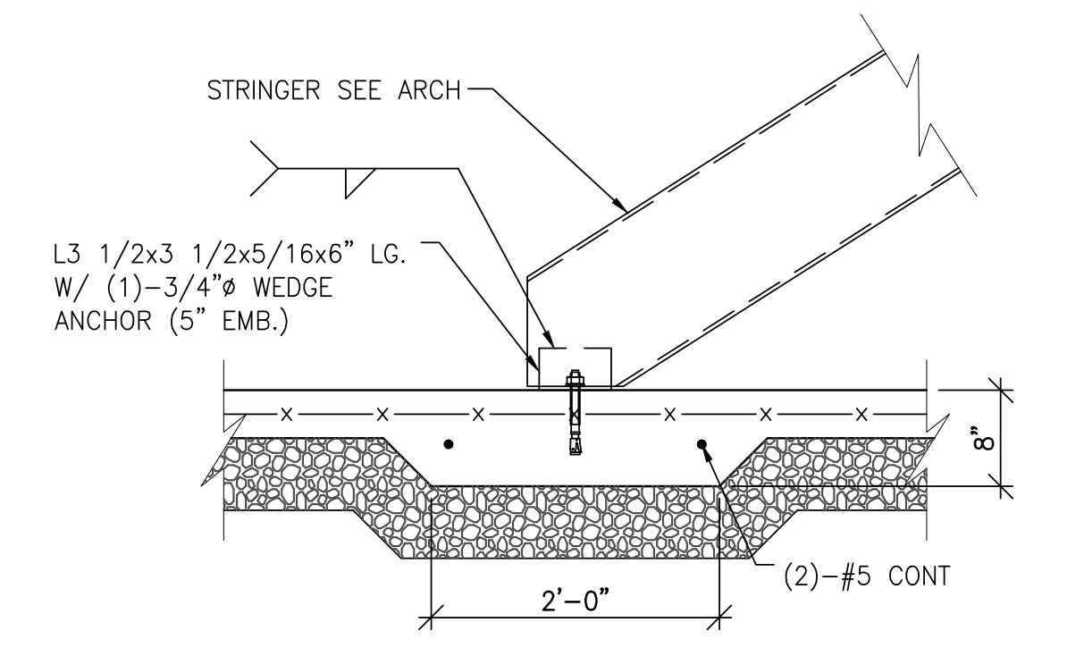
TYPICAL LOAD BEARING EXTERIOR WALL OPENING


1/8 10
PLATE 68 mil x6x15
68 mil STRAP BRACING
1/8 10
PLATE 68 mil x6x15
NOTE: POSITION SPLICE BETWEEN WALL STUDS WHEN THE STRAPPING IS ON THE INSIDE OF THE BUILDING.

SPLICE AT INTERSECTION

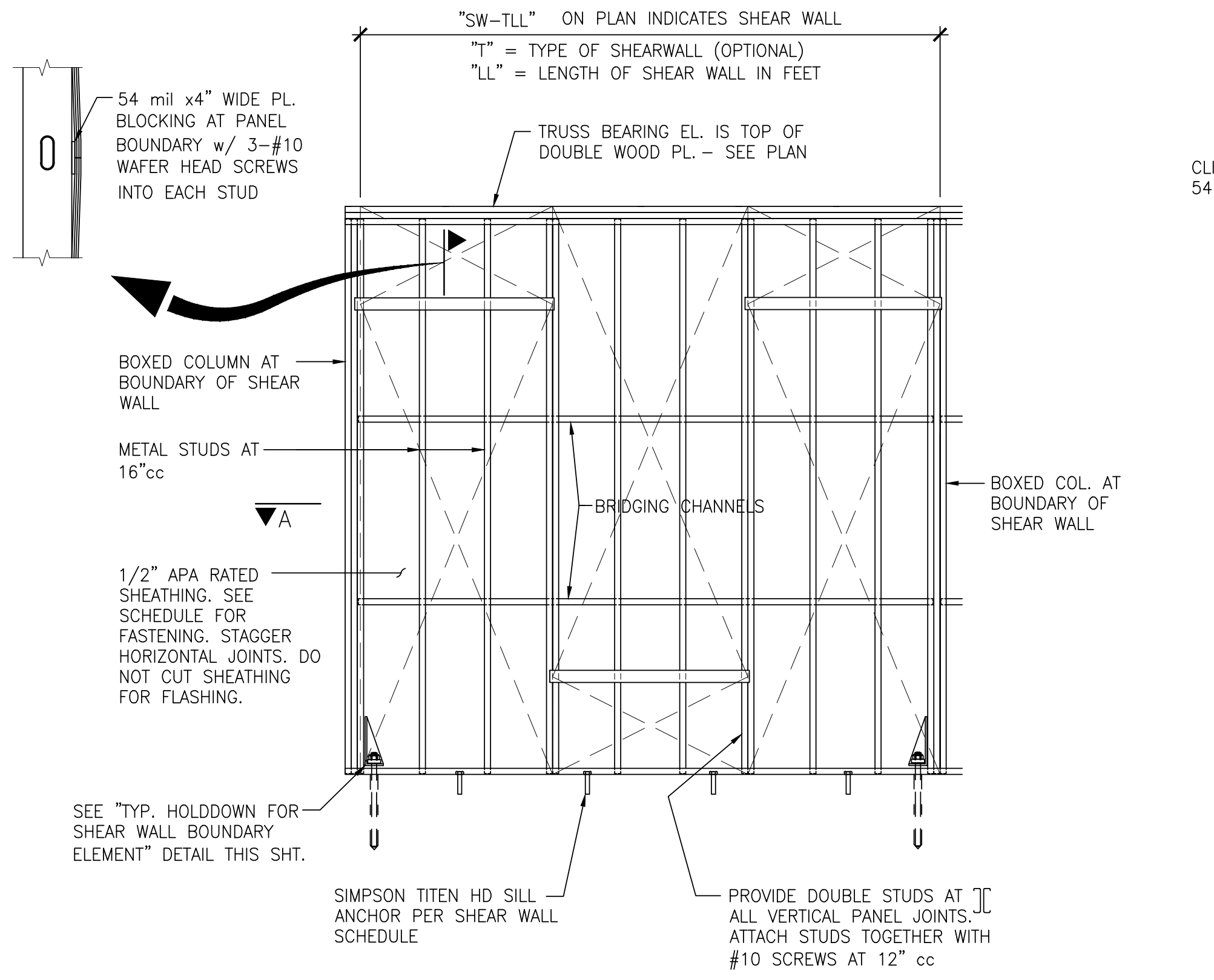
SPLICE AT BUTT JOINT

TYPICAL STRAP BRACING AT METAL STUDS - CENTER

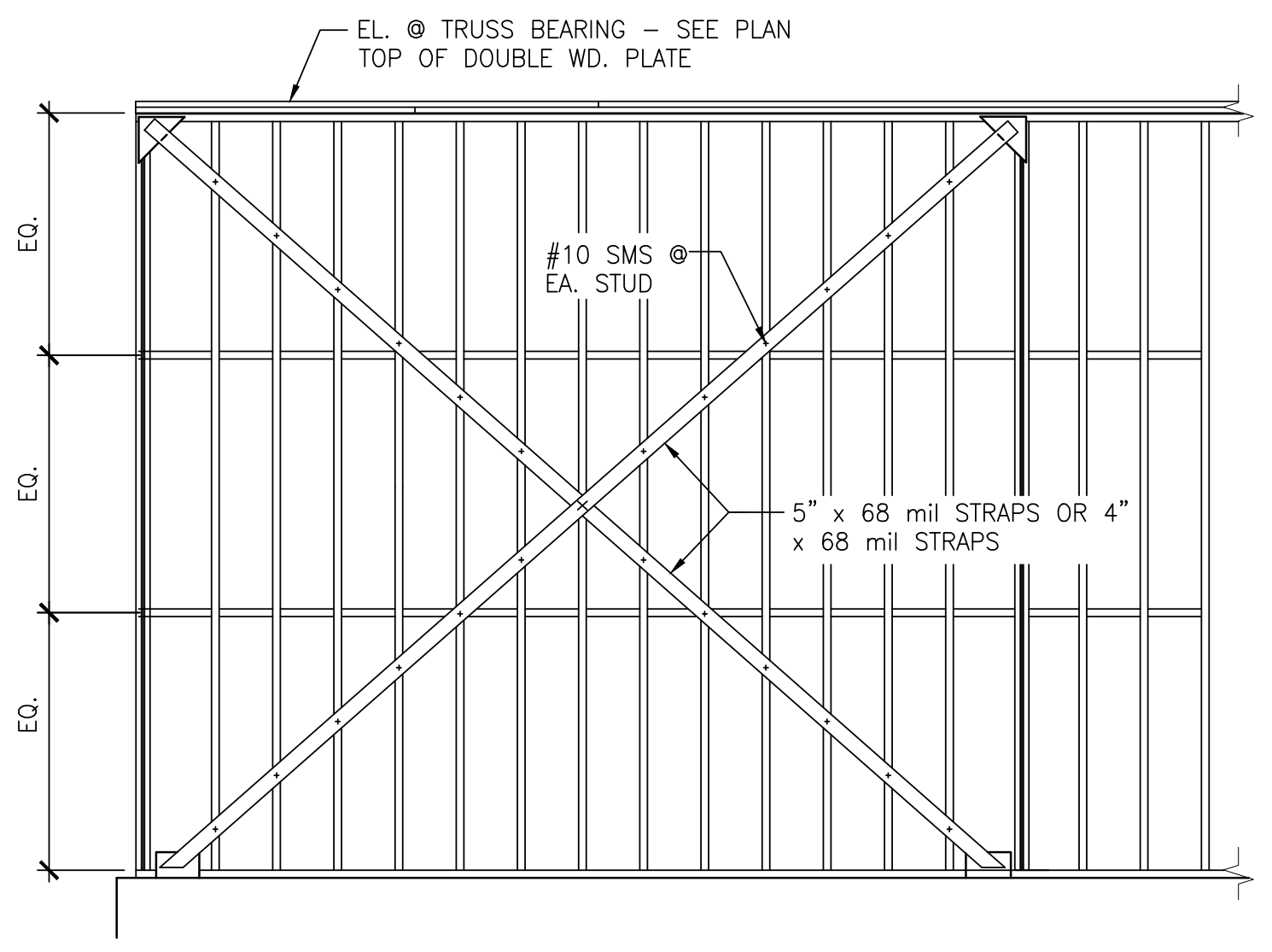

STRINGER SEE ARCH
L3 1/2x3 1/2x5/16x6" LG. W/ (1)-3/4"Ø WEDGE ANCHOR (5" EMB.)
2'-0"
(2)-#5 CONT

TYPICAL STRINGER TO FLOOR CONNECTION DETAIL

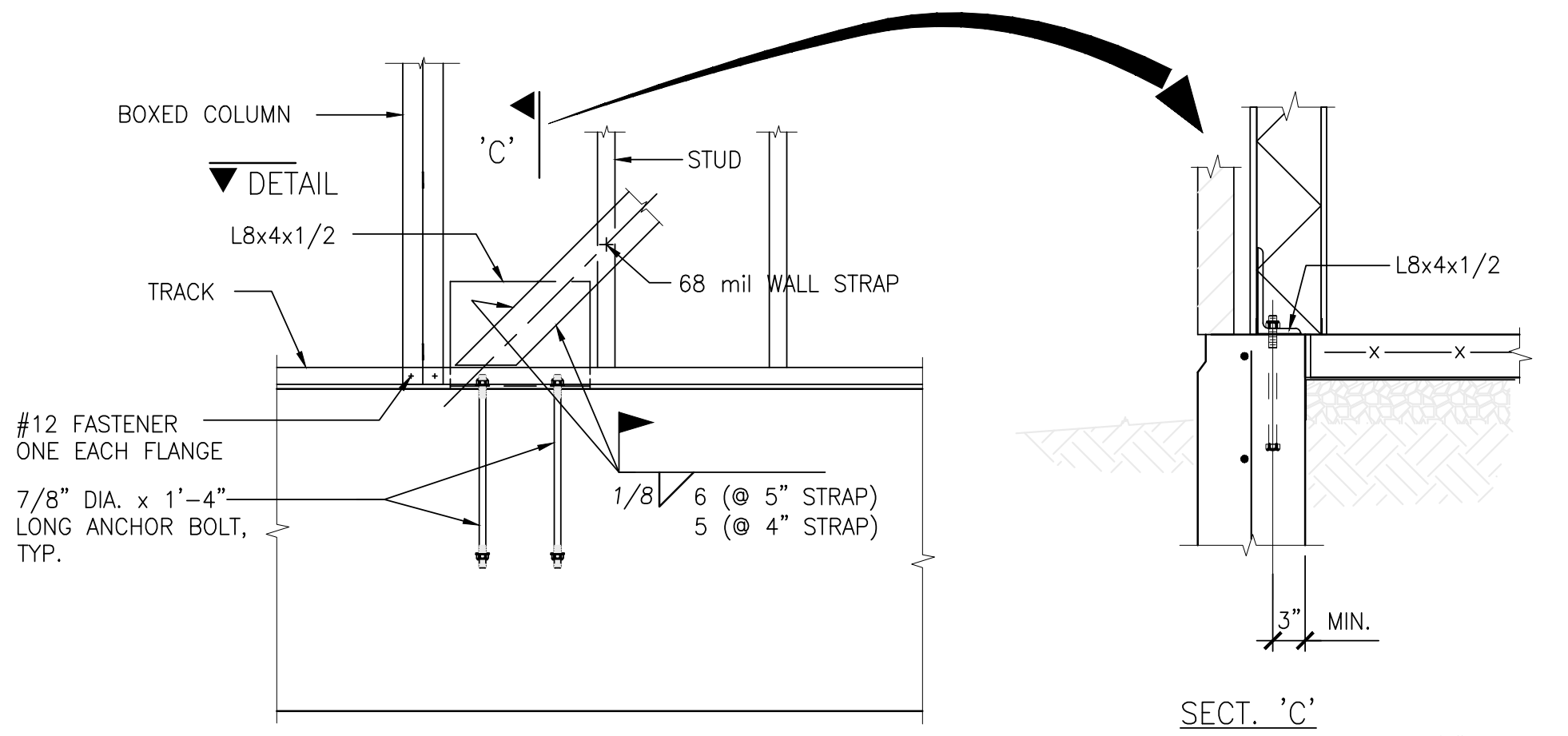
N.T.S.


"SW-TLL" ON PLAN INDICATES SHEAR WALL
"T" = TYPE OF SHEARWALL (OPTIONAL)
"LL" = LENGTH OF SHEAR WALL IN FEET
54 mil x4" WIDE PL. BLOCKING AT PANEL BOUNDARY w/ 3-#10 WAFER HEAD SCREWS INTO EACH STUD
TRUSS BEARING EL. IS TOP OF DOUBLE WOOD PL - SEE PLAN
BOXED COLUMN AT BOUNDARY OF SHEAR WALL
METAL STUDS AT 16"cc
A
BRIDGING CHANNELS
BOXED COL. AT BOUNDARY OF SHEAR WALL
1/2" APA RATED SHEATHING, SEE SCHEDULE FOR FASTENING. STAGGER HORIZONTAL JOINTS. DO NOT CUT SHEATHING FOR FLASHING.
SEE "TYP. HOLDDOWN FOR SHEAR WALL BOUNDARY ELEMENT" DETAIL THIS SHT.
SIMPSON TITEN HD SILL ANCHOR PER SHEAR WALL SCHEDULE
PROVIDE DOUBLE STUDS AT ALL VERTICAL PANEL JOINTS. ATTACH STUDS TOGETHER WITH #10 SCREWS AT 12" cc

METAL STUD SHEARWALL ELEVATION

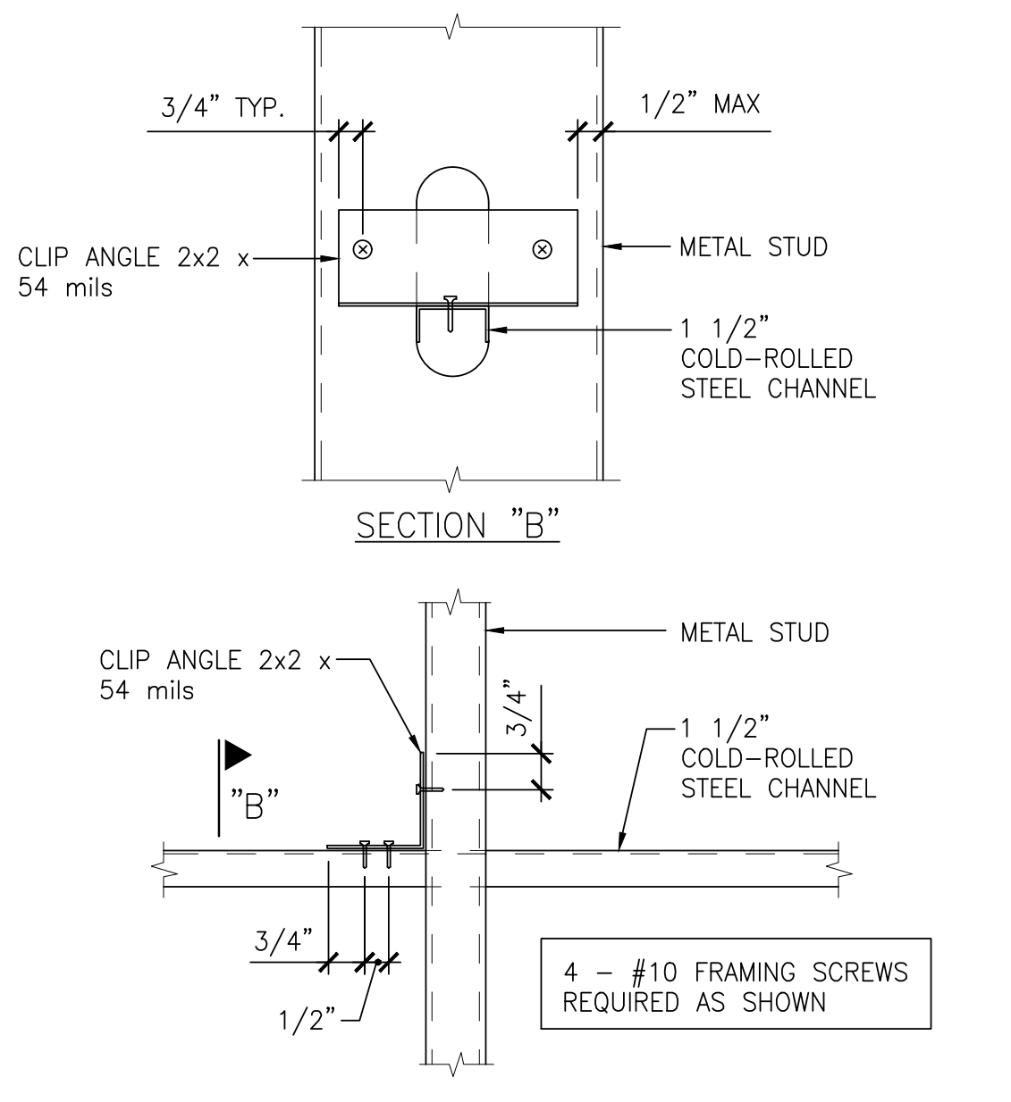

EL. @ TRUSS BEARING - SEE PLAN TOP OF DOUBLE WD. PLATE
#10 SMS @ EA. STUD
5" x 68 mil STRAPS OR 4" x 68 mil STRAPS
EQ.
EQ.
EQ.

TYPICAL STRAP BRACING ELEVATION AT METAL STUDS

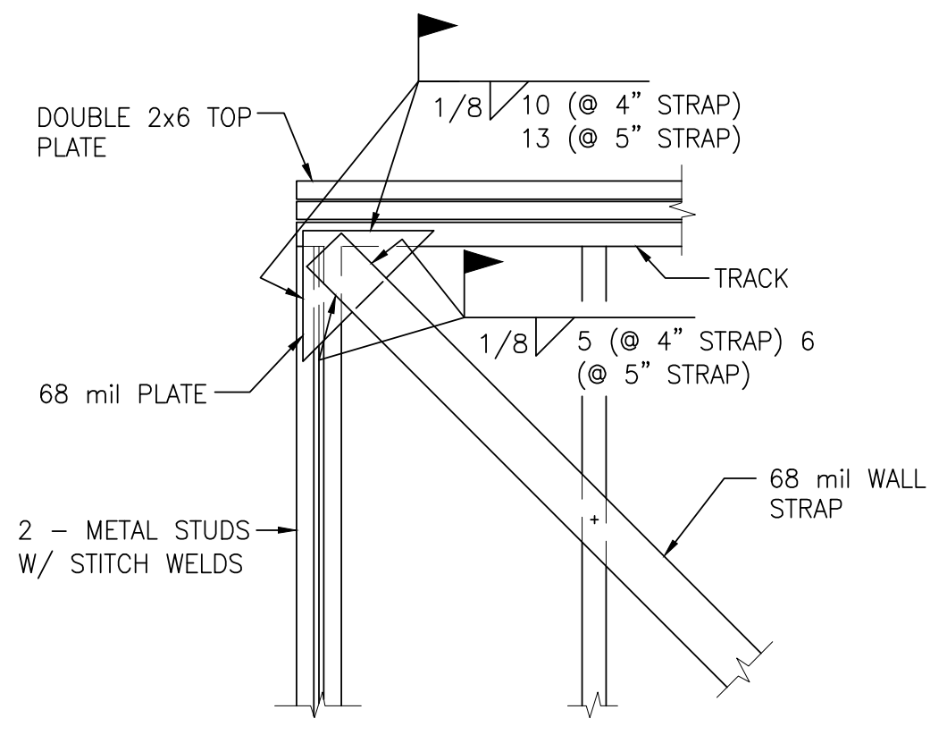

BOXED COLUMN
'C'
DETAIL
STUD
L8x4x1/2
68 mil WALL STRAP
TRACK
#12 FASTENER ONE EACH FLANGE
7/8" DIA. x 1'-4" LONG ANCHOR BOLT, TYP.
1/8 6 (@ 5" STRAP) 5 (@ 4" STRAP)
L8x4x1/2
3" MIN.

SECT. 'C'

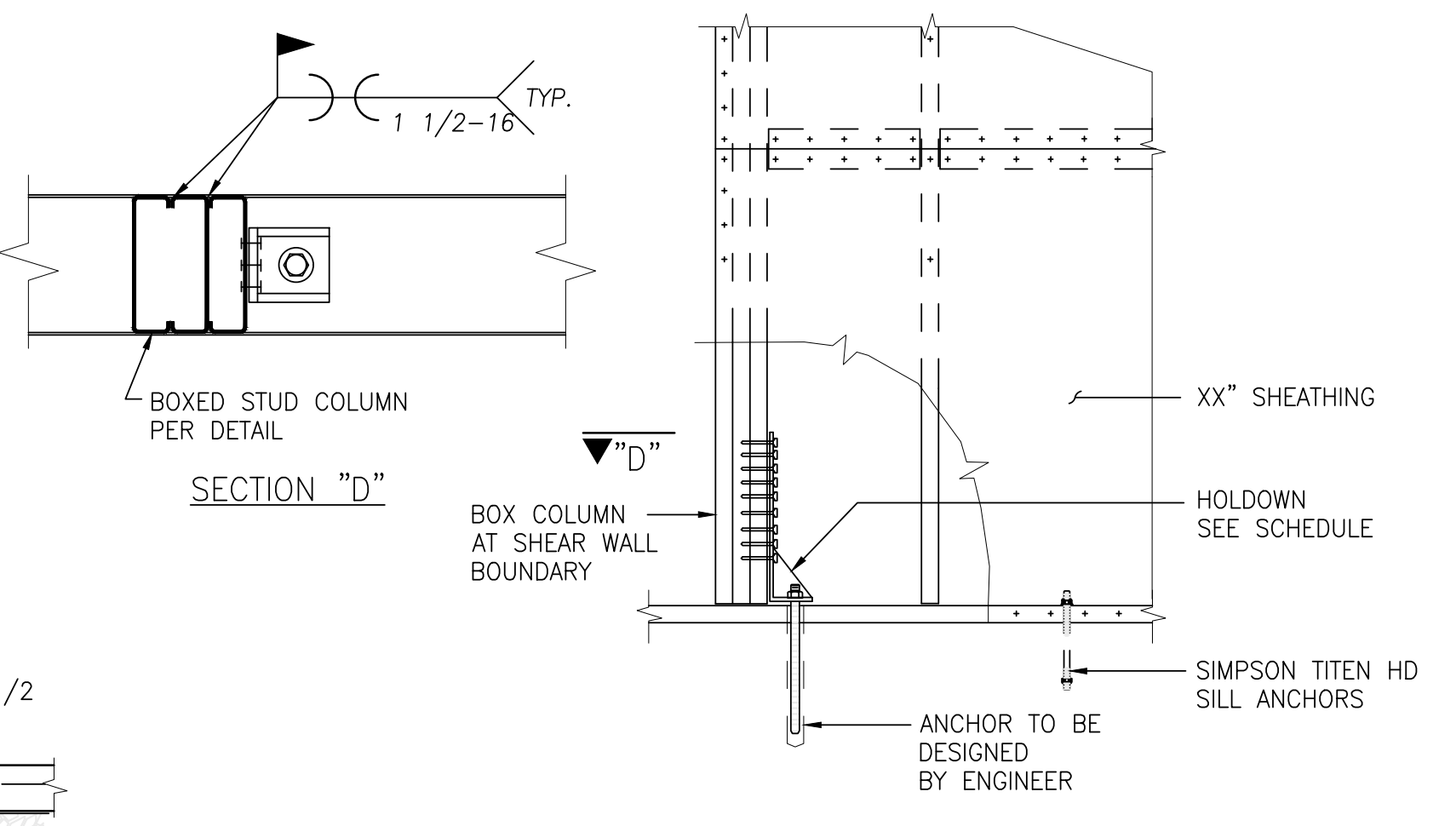
TYPICAL STRAP BRACING AT METAL STUDS - BOTTOM


3/4" TYP.
1/2" MAX
CLIP ANGLE 2x2 x 54 mils
METAL STUD
1 1/2" COLD-ROLLED STEEL CHANNEL
SECTION "B"
CLIP ANGLE 2x2 x 54 mils
METAL STUD
3/4"
1 1/2" COLD-ROLLED STEEL CHANNEL
"B"
3/4"
1/2"
4 - #10 FRAMING SCREWS REQUIRED AS SHOWN

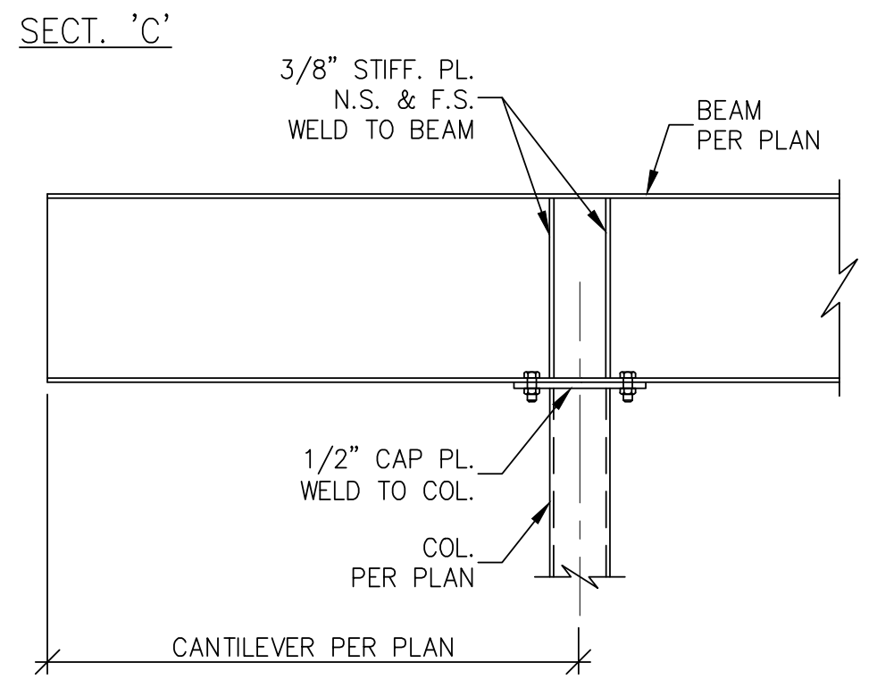
TYPICAL METAL STUD WALL BRIDGING CHANNELS


DOUBLE 2x6 TOP PLATE
1/8 10 (@ 4" STRAP) 13 (@ 5" STRAP)
TRACK
68 mil PLATE
1/8 5 (@ 4" STRAP) 6 (@ 5" STRAP)
68 mil WALL STRAP
2 - METAL STUDS W/ STITCH WELDS

TYPICAL STRAP BRACING AT METAL STUDS - TOP

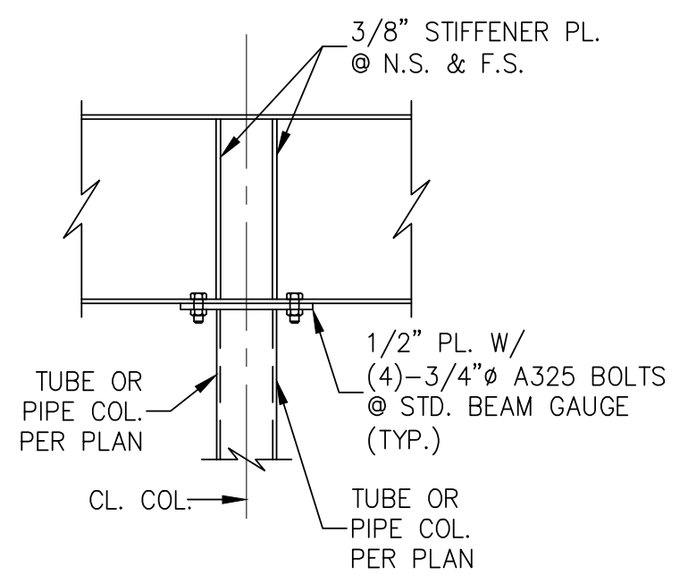

TYP.
1 1/2-16
BOXED STUD COLUMN PER DETAIL
SECTION "D"
"D"
XX" SHEATHING
BOX COLUMN AT SHEAR WALL BOUNDARY
HOLDOWN SEE SCHEDULE
SIMPSON TITEN HD SILL ANCHORS
ANCHOR TO BE DESIGNED BY ENGINEER

TYPICAL HOLDOWN FOR SHEAR WALL BOUNDARY ELEMENT


3/8" STIFF. PL. N.S. & F.S. WELD TO BEAM
BEAM PER PLAN
1/2" CAP PL. WELD TO COL.
COL. PER PLAN
CANTILEVER PER PLAN

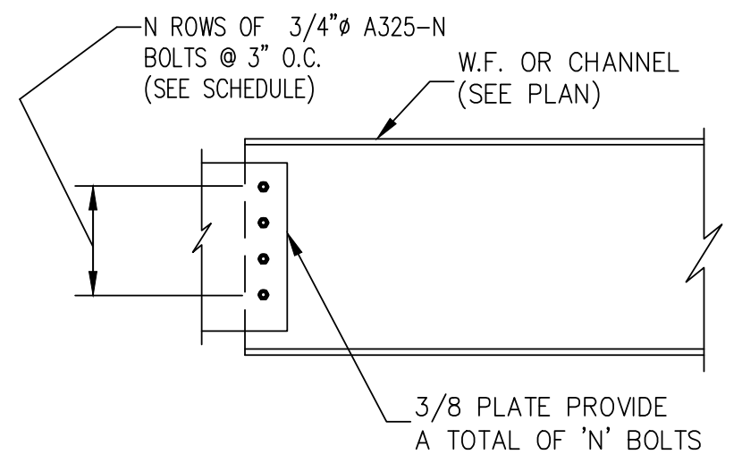
TYPICAL CANTILEVER OR BEAM SPLICE DETAIL

N.T.S.


3/8" STIFFENER PL. @ N.S. & F.S.
TUBE OR PIPE COL. PER PLAN
CL. COL.
1/2" PL. W/ (4)-3/4"Ø A325 BOLTS @ STD. BEAM GAUGE (TYP.)
TUBE OR PIPE COL. PER PLAN

TYP. COLUMN CONN. DETAIL

N.T.S.


N ROWS OF 3/4"Ø A325-N BOLTS @ 3" O.C. (SEE SCHEDULE)
W.F. OR CHANNEL (SEE PLAN)
3/8 PLATE PROVIDE A TOTAL OF 'N' BOLTS

NOMINAL BEAM DEPTH (INCHES)	N
8" & 10"	2
12" & 14"	3
16"	4
18"	5
21"	6
24" & 27"	7

TYPICAL SHEAR CONNECTION DETAIL

N.T.S.

NO.	DESCRIPTION	DATE
	REVISION	

ENGINEER SEAL:
DAVID L. VONARX
NUMBER E-36647
3/22/19

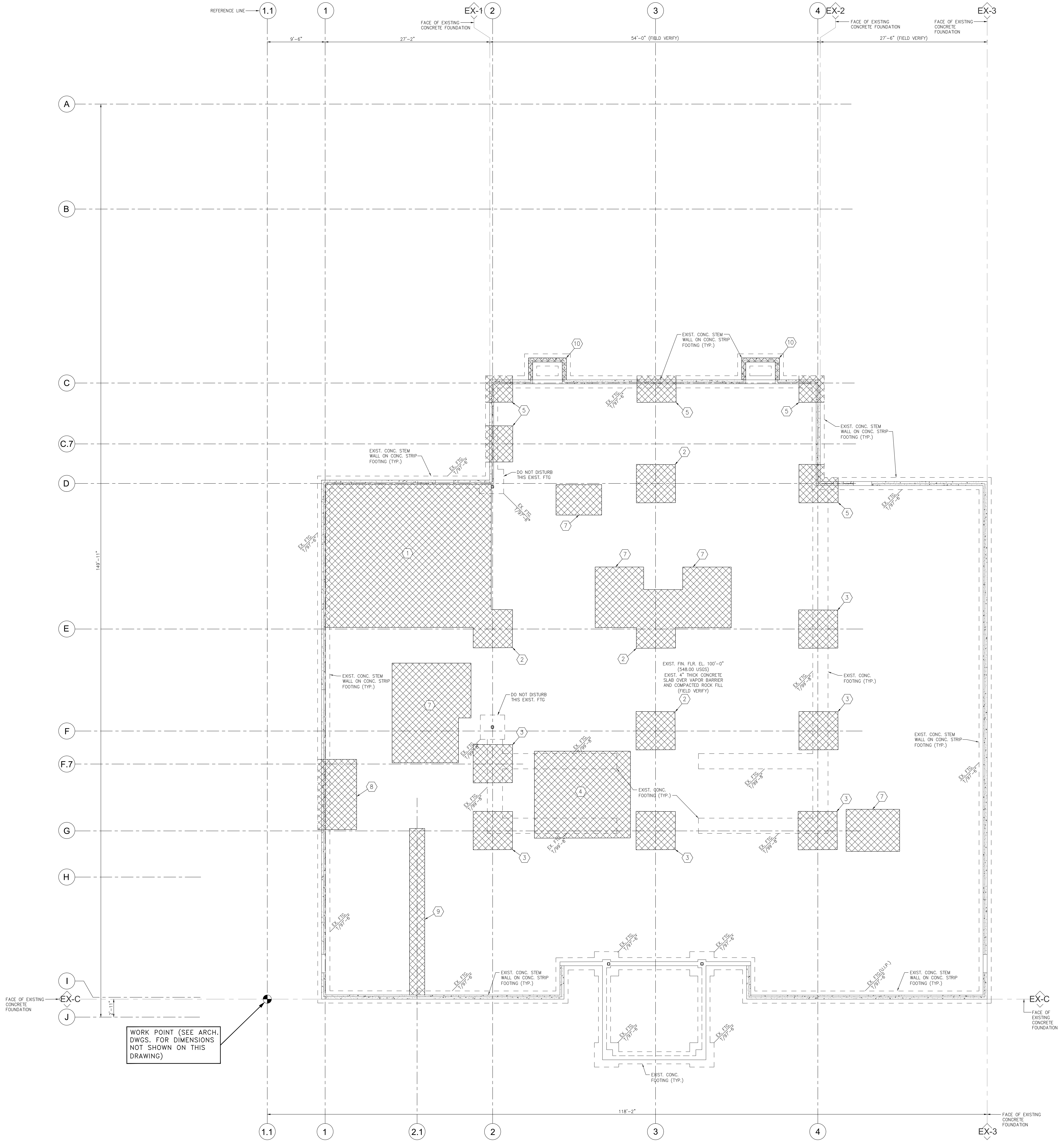
VonArx Engineering
10785 BUSINESS 21, SUITE A
HILLSBORO, MISSOURI 63050
dvonarx@vonarxengineering.com
CERTIFICATE OF AUTHORITY 0975
OFFICE: (636)797-8425

Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

DRAWN BY: E. Fletcher
CHECKED BY: D. VonArx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

STANDARD DETAILS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐


REFERENCE LINE
1.1
1
EX-1
2
3
4
EX-2
EX-3
FACE OF EXISTING CONCRETE FOUNDATION
FACE OF EXISTING CONCRETE FOUNDATION
FACE OF EXISTING CONCRETE FOUNDATION
9'-6"
27'-2"
54'-0" (FIELD VERIFY)
27'-6" (FIELD VERIFY)
S
W
E
N
A
B
C
C.7
D
E
F
F.7
G
H
I
EX-C
J
149'-11"
2'-11"
FACE OF EXISTING CONCRETE FOUNDATION
10
EXIST. CONC. STEM WALL ON CONC. STRIP FOOTING (TYP.)
10
5
5
5
EX. FTG. T/97'-6"
EXIST. CONC. STEM WALL ON CONC. STRIP FOOTING (TYP.)
EXIST. CONC. STEM WALL ON CONC. STRIP FOOTING (TYP.)
DO NOT DISTURB THIS EXIST. FTG
2
5
7
1
7
7
3
2
2
EXIST. CONC. STEM WALL ON CONC. STRIP FOOTING (TYP.)
EXIST. FIN. FLR. EL. 100'-0" (548.00 USGS)
EXIST. 4" THICK CONCRETE SLAB OVER VAPOR BARRIER AND COMPACTED ROCK FILL (FIELD VERIFY)
EXIST. CONC. FOOTING (TYP.)
DO NOT DISTURB THIS EXIST. FTG
3
3
EX. FTG. T/99'-8"
EXIST. CONC. STEM WALL ON CONC. STRIP FOOTING (TYP.)
8
4
EXIST. CONC. FOOTING (TYP.)
EX. FTG. T/97'-6"
3
7
3
3
3
9
EXIST. CONC. STEM WALL ON CONC. STRIP FOOTING (TYP.)
EX. FTG.(U.I.P.) T/97'-6"
EXIST. CONC. STEM WALL ON CONC. STRIP FOOTING (TYP.)
WORK POINT (SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN ON THIS DRAWING)
EX-C
FACE OF EXISTING CONCRETE FOUNDATION
EXIST. CONC. FOOTING (TYP.)
118'-2"
FACE OF EXISTING CONCRETE FOUNDATION
1.1
1
2.1
2
3
4
EX-3

NOTE:
CONTRACTOR TO PROVIDE TEMPORARY SHORING DURING CONSTRUCTION TO SUPPORT EXISTING FRAMING ADEQUATELY WITH RESPECT TO LOAD CAPACITY AND DEFLECTION. THE CONTRACTOR SHALL PROVIDE A DETAILED SHORING PLAN PRIOR TO THE COMMENCEMENT OF DEMOLITION. THE SHORING PLAN SHALL INCLUDE A WRITTEN DESCRIPTION OF THE SHORING METHODS AND DRAWINGS AND CALCULATIONS. THE SHORING PLAN SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

KEYED NOTES

1	DEMO EX. CONC. WALL AND EX. CONC. FLOOR SLAB AS REQ'D. TO CONSTRUCT FLOOR DRAINS AND SLOPED SLABS. COORDINATE WITH ARCH. FOR LIMITS OF DEMOLITION.
2	SAWCUT AND REMOVE EX. CONC. FLOOR SLAB AS REQ'D. TO CONSTRUCT COLUMN FOOTING.
3	SAWCUT AND REMOVE EX. CONC. FLOOR SLAB AND EX. STRIP FOOTING AS REQ'D. TO CONSTRUCT COLUMN FOOTING.
4	SAWCUT AND REMOVE EX. CONC. FLOOR SLAB AND EX. STRIP FOOTING AS REQ'D. TO CONSTRUCT ELEVATOR PIT.
5	SAWCUT AND REMOVE EX. CONC. FLOOR SLAB, EX. WALL FOOTING, AND EX. CONC. STEM WALL AS REQ'D. TO CONSTRUCT COLUMN FOOTING.
6	DEMO EX. WALL FOOTING AND EX. CONC. STEM WALL AS REQ'D. TO CONSTRUCT COLUMN FOOTING.
7	SAWCUT AND REMOVE EX. CONC. FLOOR SLAB AS REQ'D. TO CONSTRUCT SLOPED SLABS. SEE ARCH. DWGS. FOR LOCATIONS, DIMENSIONS, SLOPES, ETC.
8	SAWCUT AND REMOVE EX. CONC. FLOOR SLAB AND PORTION OF TOP OF EX. CONC. STEM WALL AS REQ'D. TO CONSTRUCT SLOPED SLAB. SEE ARCH. DWGS. FOR LOCATION, DIMENSION, SLOPES, ETC.
9	SAWCUT AND REMOVE EX. CONC. FLOOR SLAB AS REQ'D. TO CONSTRUCT BEARING WALL STRIP FOOTING.
10	REMOVE EXISTING STEM WALLS DOWN TO TOP OF EXISTING FOOTING.

FOUNDATION AND SLAB DEMOLITION PLAN

3/16"=1'-0"

PLAN NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING FOUNDATION CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITH THE DRAWINGS.
2. FLOOR CONSTRUCTION TO BE 4" CONCRETE SLAB ON GRADE OVER 10 MIL. POLY VAPOR BARRIER OVER 4" GRANULAR FILL. REINFORCE SLAB WITH 6x6-W2.9xW2.9 W.W.F.
3. COLUMN FOOTINGS ARE CENTERED EACH WAY ON COLUMN CENTERS UNLESS NOTED OTHERWISE.
4. SEE SHEET S1.0, S2.1 AND S2.2 FOR GENERAL NOTES AND STANDARD DETAILS.
7. SEE ARCHITECT'S DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SLAB AND FOUNDATION DEMO.
8. SEE ARCHITECT'S DRAWINGS FOR EXISTING BUILDING INFORMATION.

REVISION		
NO.	DESCRIPTION	DATE

ENGINEER SEAL:
DAVID L VONARX
NUMBER E-26647
3/22/19

VonArx Engineering
10785 BUSINESS 21, SUITE A
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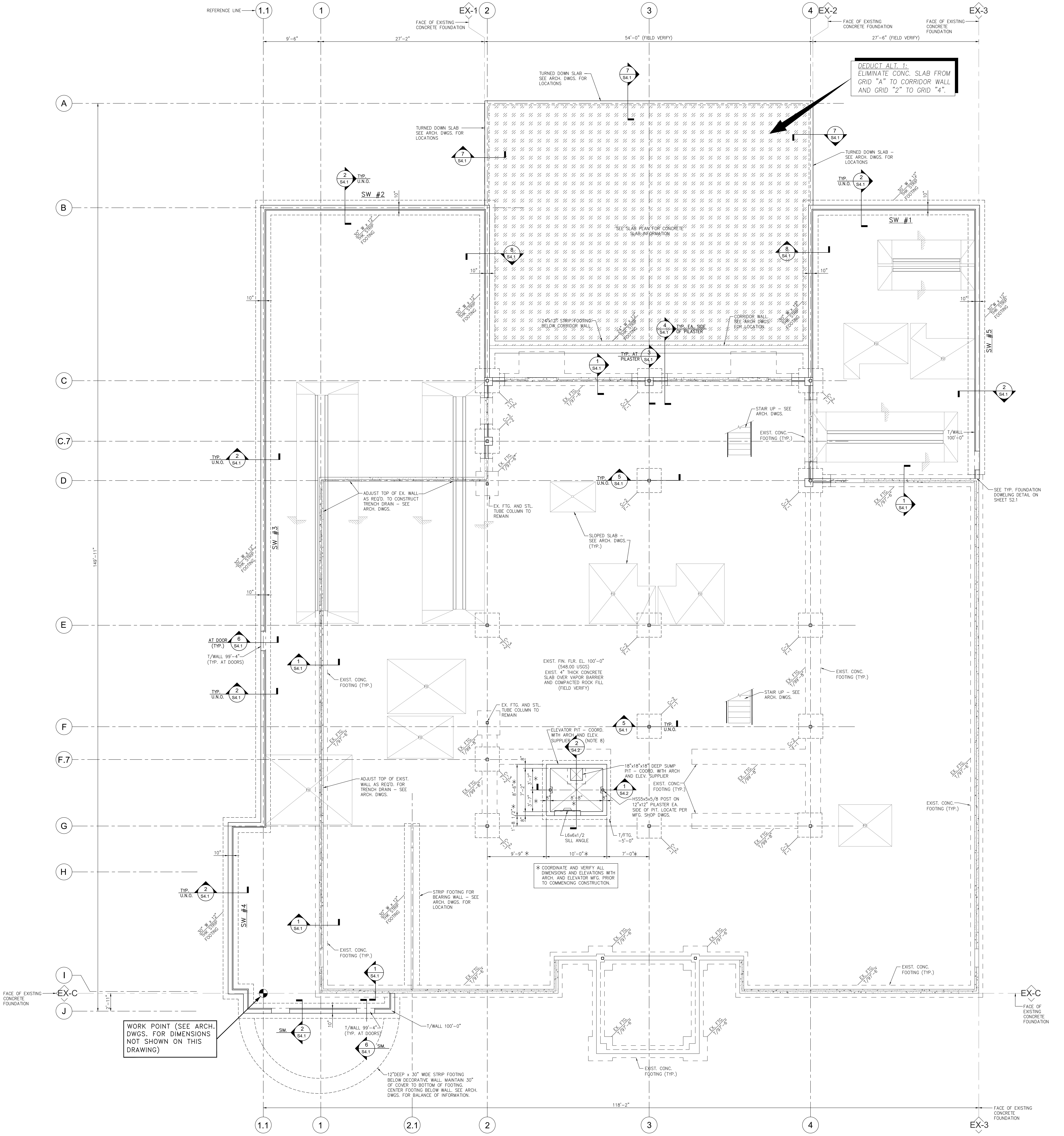
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

DRAWN BY: E. Fletcher
CHECKED BY: D. VonArx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

EXISTING BUILDING FOUNDATION DEMOLITION PLAN

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

S3.0


REFERENCE LINE
1.1
1
2.1
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4
EX-1
EX-2
EX-3
EX-C
A
B
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C.7
D
E
F
F.7
G
H
I
J
FACE OF EXISTING CONCRETE FOUNDATION
9'-6"
27'-2"
54'-0" (FIELD VERIFY)
27'-6" (FIELD VERIFY)
149'-11"
118'-2"
2'-11"
DEDUCT ALT. 1:
ELIMINATE CONC. SLAB FROM GRID "A" TO CORRIDOR WALL AND GRID "2" TO GRID "4".
TURNED DOWN SLAB SEE ARCH. DWGS. FOR LOCATIONS
SEE SLAB PLAN FOR CONCRETE SLAB INFORMATION
24"x12" STRIP FOOTING BELOW CORRIDOR WALL
24" W x 12" THK STRIP FOOTING
30" W x 12" THK STRIP FOOTING
CORRIDOR WALL. SEE ARCH DWGS. FOR LOCATION.
TYP. EA. SIDE OF PILASTER
TYP. AT PILASTER
TYP. U.N.O.
SW #1
SW #2
SW #3
SW #4
SW #5
10"
C-1 F-1
C-2 F-1
C-3 F-2
EX. FTG. T/97'-6"
EX. FTG. T/99'-8"
STAIR UP – SEE ARCH. DWGS.
EXIST. CONC. FOOTING (TYP.)
T/WALL 100'-0"
SEE TYP. FOUNDATION DOWELING DETAIL ON SHEET S2.1
ADJUST TOP OF EX. WALL AS REQ'D. TO CONSTRUCT TRENCH DRAIN – SEE ARCH. DWGS.
EX. FTG. AND STL. TUBE COLUMN TO REMAIN
SLOPED SLAB – SEE ARCH. DWGS. (TYP.)
AT DOOR (TYP.)
T/WALL 99'-4" (TYP. AT DOORS)
EXIST. FIN. FLR. EL. 100'-0" (548.00 USGS) EXIST. 4" THICK CONCRETE SLAB OVER VAPOR BARRIER AND COMPACTED ROCK FILL (FIELD VERIFY)
ELEVATOR PIT – COORD. WITH ARCH AND ELEV. SUPPLIER (NOTE 8)
18"x18"x18" DEEP SUMP PIT – COORD. WITH ARCH AND ELEV. SUPPLIER
HSS5x5x5/8 POST ON 12"x12" PILASTER EA. SIDE OF PIT. LOCATE PER MFG. SHOP DWGS.
L6x6x1/2 SILL ANGLE
T/FTG. -5'-0"
8'-8"
8'-6"*
7'-2"
3'-7"*
9'-9"*
10'-0"*
7'-0"*
* COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH. AND ELEVATOR MFG. PRIOR TO COMMENCING CONSTRUCTION.
ADJUST TOP OF EXIST. WALL AS REQ'D. FOR TRENCH DRAIN – SEE ARCH. DWGS.
STRIP FOOTING FOR BEARING WALL – SEE ARCH. DWGS. FOR LOCATION
WORK POINT (SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN ON THIS DRAWING)
SIM.
12"DEEP x 30" WIDE STRIP FOOTING BELOW DECORATIVE WALL. MAINTAIN 30" OF COVER TO BOTTOM OF FOOTING. CENTER FOOTING BELOW WALL. SEE ARCH. DWGS. FOR BALANCE OF INFORMATION.
S4.1
S4.2

NOTE:
CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS RELATIVE TO THIS WORK FOR CONFLICTS OR DISCREPANCIES AND NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION

COLUMN SCHEDULE							
		BASE PLATE SIZE					
MARK	COL. SIZE	LENGTH	WIDTH	THK	ANCHOR RODS	BOLT LENGTH	REMARKS
C-1	HSS4x4x1/2	12"	12"	3/4"	4-3/4" DIA. A36	??"	SEE BASE PLATE DETAILS ON S2.1
C-2	HSS6x6x1/2	12"	12"	3/4"	4-3/4" DIA. A36	??"	SEE BASE PLATE DETAILS ON S2.1
C-3	HSS6x6x5/8	12"	12"	1"	4-1" DIA. A36	??"	SEE BASE PLATE DETAILS ON S2.1

FOOTING SCHEDULE					
MARK	LENGTH	WIDTH	THICKNESS	REINF. EA. WAY BOT. (U.N.O.)	COMMENTS
F-1	4'-0"	4'-0"	12"	5-??	
F-2	4'-0"	4'-0"	14"		

PLAN LEGEND

▨	EXISTING CONCRETE FOUNDATION WALL
C-# / F-#	COLUMN DESIGNATION AND FOOTING DESIGNATION – SEE SCHEDULES THIS SHEET

FOUNDATION PLAN

3/16"=1'-0"

PLAN NOTES:

1. TOP OF BUILDING ADDITION SLAB TO MATCH EXISTING TOP OF SLAB ELEVATION. FIELD VERIFY ALL ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING FOUNDATION CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITH THE DRAWINGS.
3. FLOOR CONSTRUCTION TO BE 4" CONCRETE SLAB ON GRADE OVER 10 MIL. POLY VAPOR BARRIER OVER 4" GRANULAR FILL. REINFORCE SLAB WITH 6x6-W2.9xW2.9 W.W.F.
4. COLUMN FOOTINGS ARE CENTERED EACH WAY ON COLUMN CENTERS UNLESS NOTED OTHERWISE.
5. TOP OF ALL NEW INTERIOR COLUMN AND STRIP FOOTINGS TO BE EL. (MINUS) 1'-0".
6. BOTTOM OF NEW FOUNDATION WALL STRIP FOOTINGS AND NEW COLUMN FOOTINGS TO BE A MINIMUM OF 30" BELOW FINISH GRADE AT THE BUILDING – AND/OR – MATCH THE BOTTOM OF THE EXISTING ADJACENT FOOTING IF EXISTING FOUNDATION IS IN CLOSE PROXIMITY TO THE NEW WORK.
7. SEE SHEET S2.1 AND S2.2 FOR GENERAL NOTES AND STANDARD DETAILS.
8. SEE SHEET S2.2 FOR SPECIAL WATER PROOFING SPECIFICATIONS FOR THE ELEVATOR PIT.
9. SEE SHEET S4.1 FOR COLUMN PILASTER DETAILS.
10. SEE SHEET S2.1 FOR COLUMN BASE PLATE DETAILS.
11. SEE SHEET S5.0 FOR SHEAR WALL ELEVATIONS (SW-#).
12. SEE ARCH. DWGS. FOR SLOPED AND/OR DEPRESSED SLABS, CONCRETE FINISHES AND TREATMENTS.
7. SEE ARCHITECT'S DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SLAB AND FOUNDATION DEMO.
8. SEE ARCHITECT'S DRAWINGS FOR EXISTING BUILDING INFORMATION.

REVISION		
NO.	DESCRIPTION	DATE

ENGINEER SEAL:
STATE OF MISSOURI
DAVID L. VONARX
NUMBER E-26647
REGISTERED PROFESSIONAL ENGINEER
3/22/19

VonArx Engineering

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CERTIFICATE OF AUTHORITY 0975
OFFICE: (636)797-8425

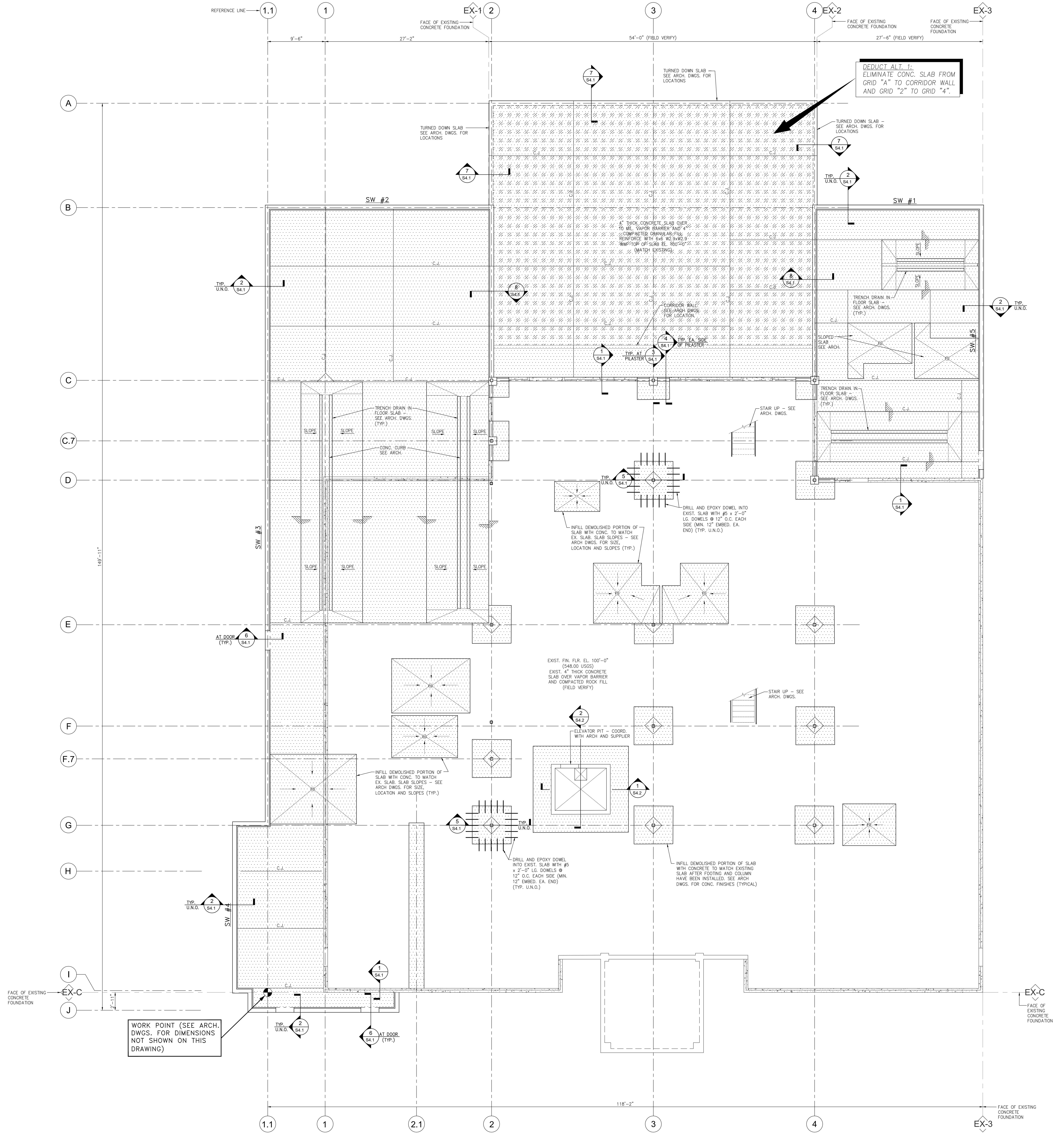
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

BUILDING ADDITION FOUNDATION PLAN

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: E. Fletcher
CHECKED BY: D. VonArx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

S3.1


REFERENCE LINE
1.1
1
2
2.1
3
4
EX-1
EX-2
EX-3
FACE OF EXISTING CONCRETE FOUNDATION
9'-6"
27'-2"
54'-0" (FIELD VERIFY)
27'-6" (FIELD VERIFY)
118'-2"
149'-11"
2'-11"
A
B
C
C.7
D
E
F
F.7
G
H
I
J
EX-C
DEDUCT ALT. 1:
ELIMINATE CONC. SLAB FROM GRID "A" TO CORRIDOR WALL AND GRID "2" TO GRID "4".
TURNED DOWN SLAB SEE ARCH. DWGS. FOR LOCATIONS
TURNED DOWN SLAB – SEE ARCH. DWGS. FOR LOCATIONS
7 S4.1
TYP. U.N.O. 2 S4.1
SW #1
SW #2
SW #3
SW #4
SW #5
4" THICK CONCRETE SLAB OVER 10 MIL. VAPOR BARRIER AND 4" COMPACTED GRANULAR FILL REINFORCE WITH 6x6 W2.9xW2.9 WWF TOP OF SLAB EL. 100'-0" (MATCH EXISTING)
C.J.
8 S4.1
CORRIDOR WALL SEE ARCH DWGS FOR LOCATION.
1 S4.1
TYP. AT PILASTER 3 S4.1
4 S4.1 TYP. EA. SIDE OF PILASTER
TRENCH DRAIN IN FLOOR SLAB – SEE ARCH. DWGS. (TYP.)
SLOPE
SLOPED SLAB SEE ARCH.
CONC. CURB SEE ARCH.
STAIR UP – SEE ARCH. DWGS.
TYP. U.N.O. 5 S4.1
DRILL AND EPOXY DOWEL INTO EXIST. SLAB WITH #5 x 2'-0" LG. DOWELS @ 12" O.C. EACH SIDE (MIN. 12" EMBED. EA. END) (TYP. U.N.O.)
INFILL DEMOLISHED PORTION OF SLAB WITH CONC. TO MATCH EX. SLAB. SLAB SLOPES – SEE ARCH DWGS. FOR SIZE, LOCATION AND SLOPES (TYP.)
FD
AT DOOR (TYP.) 6 S4.1
EXIST. FIN. FLR. EL. 100'-0" (548.00 USGS) EXIST. 4" THICK CONCRETE SLAB OVER VAPOR BARRIER AND COMPACTED ROCK FILL (FIELD VERIFY)
2 S4.2
ELEVATOR PIT – COORD. WITH ARCH AND SUPPLIER
1 S4.2
INFILL DEMOLISHED PORTION OF SLAB WITH CONCRETE TO MATCH EXISTING SLAB AFTER FOOTING AND COLUMN HAVE BEEN INSTALLED. SEE ARCH DWGS. FOR CONC. FINISHES (TYPICAL)
1 S4.1
WORK POINT (SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN ON THIS DRAWING)

SLAB ON GRADE PLAN

3/16"=1'-0"

PLAN NOTES:

1. TOP OF BUILDING ADDITION SLAB TO MATCH EXISTING TOP OF SLAB ELEVATION. FIELD VERIFY ALL ELEVATIONS PRIOR TO COMMENCING CONSTRUCTION.
2. CONTRACTOR TO FIELD VERIFY ALL EXISTING FOUNDATION CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITH THE DRAWINGS.
3. FLOOR CONSTRUCTION TO BE 4" CONCRETE SLAB ON GRADE OVER 10 MIL. POLY VAPOR BARRIER OVER 4" GRANULAR FILL. REINFORCE SLAB WITH 6x6–W2.9xW2.9 W.W.F.
4. SEE SHEET S1.0, S2.1 AND S2.2 FOR GENERAL NOTES AND STANDARD DETAILS.
5. SEE ARCH. DWGS. FOR SLOPED AND/OR DEPRESSED SLABS, CONCRETE FINISHES AND TREATMENTS.
7. SEE ARCHITECT'S DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SLAB AND FOUNDATION DEMO.
8. SEE ARCHITECT'S DRAWINGS FOR EXISTING BUILDING INFORMATION.

NO.	REVISION DESCRIPTION	DATE

VonArx Engineering

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ENGINEER SEAL:
STATE OF MISSOURI
DAVID L. VONARX
NUMBER E-36647
3/22/19

Jefferson County Animal Care Facility

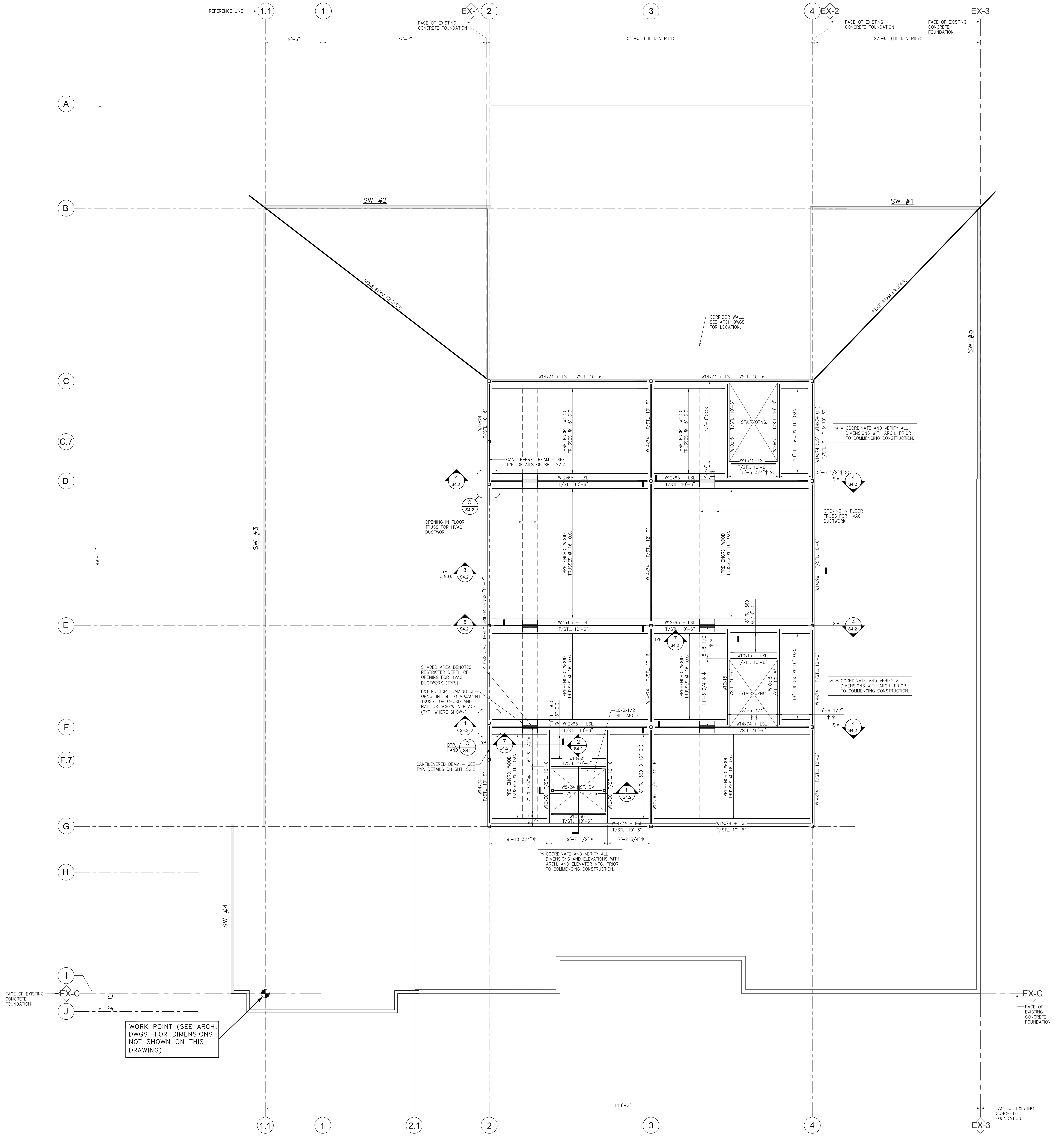
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

BUILDING ADDITION SLAB ON GRADE PLAN

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: E. Fletcher
CHECKED BY: D. Vonarx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

S3.2


REFERENCE LINE
1.1
1
EX-1
2
3
4
EX-2
EX-3
FACE OF EXISTING CONCRETE FOUNDATION
9'-6"
27'-2"
54'-0" (FIELD VERIFY)
27'-6" (FIELD VERIFY)
A
B
C
C.7
D
E
F
F.7
G
H
I
EX-C
J
149'-11"
SW #1
SW #2
SW #3
SW #4
SW #5
RIDGE BEAM (SLOPES)
CORRIDOR WALL. SEE ARCH DWGS. FOR LOCATION.
W14x74 + LSL T/STL. 10'-6"
W14x74 T/STL. 10'-6"
CANTILEVERED BEAM – SEE TYP. DETAILS ON SHT. S2.2
PRE-ENGRD. WOOD TRUSSES @ 16" O.C.
W12x65 + LSL T/STL. 10'-6"
13'-8"✱✱
2'-10"
STAIR OPNG.
W10x15
T/STL. 10'-6"
W10x15+LSL T/STL. 10'-6"
8'-5 3/4"✱✱
18" TJI 360 @ 16" O.C.
W14x74 (LO) W14x74 (HI) T/STL. 9'-1" & 10'-6"
✱✱ COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCH. PRIOR TO COMMENCING CONSTRUCTION.
5'-6 1/2"✱✱
SIM.
4 S4.2
C S4.2
OPENING IN FLOOR TRUSS FOR HVAC DUCTWORK
TYP. U.N.O.
3 S4.2
W14x74 T/STL. 12'-0"
W14x99 T/STL. 10'-6"
EXIST. MULTI-PLY GRIDER TRUSS "GT-2"
5 S4.2
TYP.
7 S4.2
5'-5 1/2"
W10x15 + LSL T/STL. 10'-6"
11'-3 3/4"✱✱
8'-5 3/4"
SHADED AREA DENOTES RESTRICTED DEPTH OF OPENING FOR HVAC DUCTWORK (TYP.)
EXTEND TOP FRAMING OF OPNG. IN LSL TO ADJACENT TRUSS TOP CHORD AND NAIL OR SCREW IN PLACE (TYP. WHERE SHOWN)
L6x6x1/2 SILL ANGLE
OPP. HAND
2 S4.2
1 S4.2
6'-6 1/2"✱
7'-9 3/4"✱
2'-2"✱
W10x30 T/STL. 10'-6"
W8x24 HST. BM. T/STL. 13'-3"✱
W14x74 + LSL
9'-10 3/4"✱
9'-7 1/2"✱
7'-2 3/4"✱
✱ COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH. AND ELEVATOR MFG. PRIOR TO COMMENCING CONSTRUCTION.
6'-11"
WORK POINT (SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN ON THIS DRAWING)
118'-2"
2.1

2nd LEVEL FRAMING PLAN

3/16"=1'-0"

PLAN NOTES:

1. FLOOR CONSTRUCTION TO BE 3/4" TONGUE AND GROOVE PLYWOOD – COORDINATE WITH ARCHITECT'S DRAWINGS.
2. "LSL" NOTED ON DRAWING DENOTES WEYERHAEUSER TIMBERSTRAND LAMINATED STRAND LUMBER (LSL) FLOOR JOIST OR APPROVED EQUAL.
3. TOP OF STEEL ELEVATIONS ARE NOTED ON PLAN.
4. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITH THE DRAWINGS.
5. SEE SHEET S1.0 FOR STRUCTURAL GENERAL NOTES.
6. SEE SHEET S2.1 AND S2.2 FOR STRUCTURAL STANDARD DETAILS.
7. SEE SHEET S5.0 FOR SHEAR WALL ELEVATIONS (SW-#).
8. SEE ARCHITECT'S DRAWINGS FOR ADDITIONAL INFORMATION REGARDING SECOND FLOOR DEMO AND NEW CONSTRUCTION.
9. SEE ARCHITECT'S DRAWINGS FOR EXISTING BUILDING INFORMATION.

REVISION		
NO.	DESCRIPTION	DATE

ENGINEER SEAL:
DAVID L. VONARX
NUMBER E-26647
3/22/19

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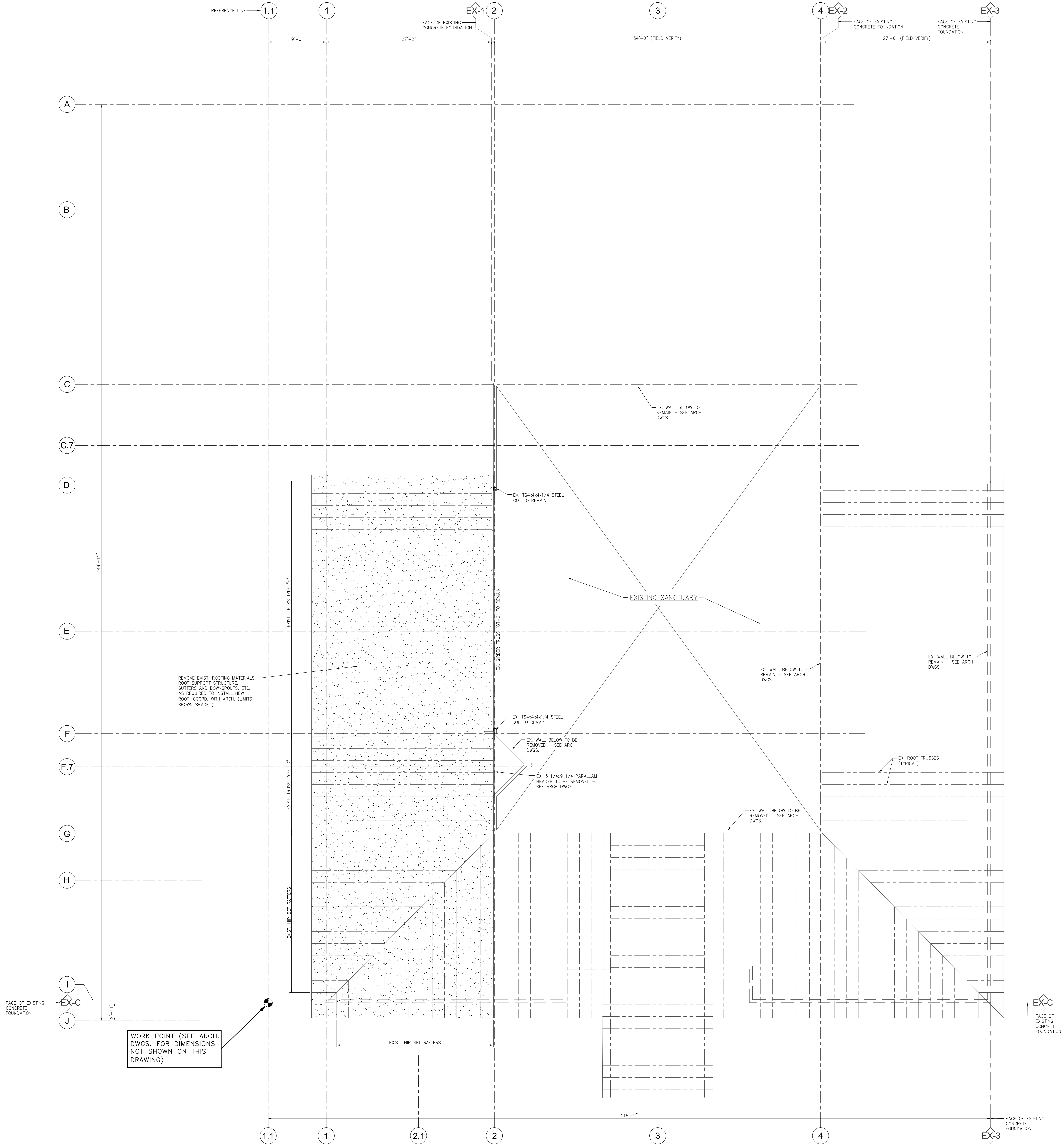
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

SECOND LEVEL FRAMING PLAN

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: E. Fletcher
CHECKED BY: D. VonArx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

S3.3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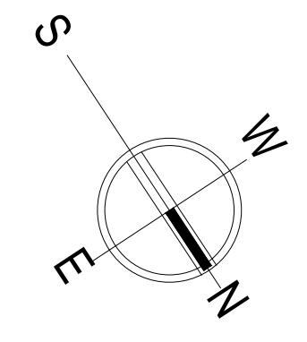
1.1
1
EX-1
2
3
4
EX-2
EX-3
FACE OF EXISTING CONCRETE FOUNDATION
FACE OF EXISTING CONCRETE FOUNDATION
FACE OF EXISTING CONCRETE FOUNDATION
9'-6"
27'-2"
54'-0" (FIELD VERIFY)
27'-6" (FIELD VERIFY)
A
B
C
C.7
D
E
F
F.7
G
H
I
EX-C
J
149'-11"
2'-11"
FACE OF EXISTING CONCRETE FOUNDATION
EXIST. TRUSS TYPE "E"
EXIST. TRUSS TYPE "D"
EXIST. HIP SET RAFTERS
EX. GIRDER TRUSS "GT-2" TO REMAIN
EX. WALL BELOW TO REMAIN – SEE ARCH DWGS.
EX. TS4x4x4x1/4 STEEL COL TO REMAIN
EXISTING SANCTUARY
REMOVE EXIST. ROOFING MATERIALS, ROOF SUPPORT STRUCTURE, GUTTERS AND DOWNSPOUTS, ETC. AS REQUIRED TO INSTALL NEW ROOF. COORD. WITH ARCH. (LIMITS SHOWN SHADED)
EX. TS4x4x4x1/4 STEEL COL TO REMAIN
EX. WALL BELOW TO BE REMOVED – SEE ARCH DWGS.
EX. 5 1/4x9 1/4 PARALLAM HEADER TO BE REMOVED – SEE ARCH DWGS.
EX. WALL BELOW TO REMAIN – SEE ARCH DWGS.
EX. WALL BELOW TO REMAIN – SEE ARCH DWGS.
EX. ROOF TRUSSES (TYPICAL)
EX. WALL BELOW TO BE REMOVED – SEE ARCH DWGS.
WORK POINT (SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN ON THIS DRAWING)
EXIST. HIP SET RAFTERS
EX-C
FACE OF EXISTING CONCRETE FOUNDATION
118'-2"
1.1
1
2.1
2
3
4
EX-3
FACE OF EXISTING CONCRETE FOUNDATION



NOTE:
CONTRACTOR TO PROVIDE TEMPORARY SHORING DURING CONSTRUCTION TO SUPPORT EXISTING FRAMING ADEQUATELY WITH RESPECT TO LOAD CAPACITY AND DEFLECTION. THE CONTRACTOR SHALL PROVIDE A DETAILED SHORING PLAN PRIOR TO THE COMMENCEMENT OF DEMOLITION. THE SHORING PLAN SHALL INCLUDE A WRITTEN DESCRIPTION OF THE SHORING METHODS AND DRAWINGS AND CALCULATIONS. THE SHORING PLAN SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL.

ROOF DEMOLITION PLAN

3/16"=1'-0"

PLAN NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITH THE DRAWINGS.
2. SEE SHEET S1.0 FOR STRUCTURAL GENERAL NOTES.
3. SEE SHEET S2.1 AND S2.2 FOR STRUCTURAL STANDARD DETAILS.
4. SEE ARCHITECT'S DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ROOF DEMO AND NEW ROOFING.
5. SEE ARCHITECT'S DRAWINGS FOR EXISTING BUILDING INFORMATION.

NO.	REVISION DESCRIPTION	DATE

ENGINEER SEAL:
DAVID L. VONARX
NUMBER E-26647
3/22/19

VonArx Engineering
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CERTIFICATE OF AUTHORITY 0975
OFFICE: (636)797-8425

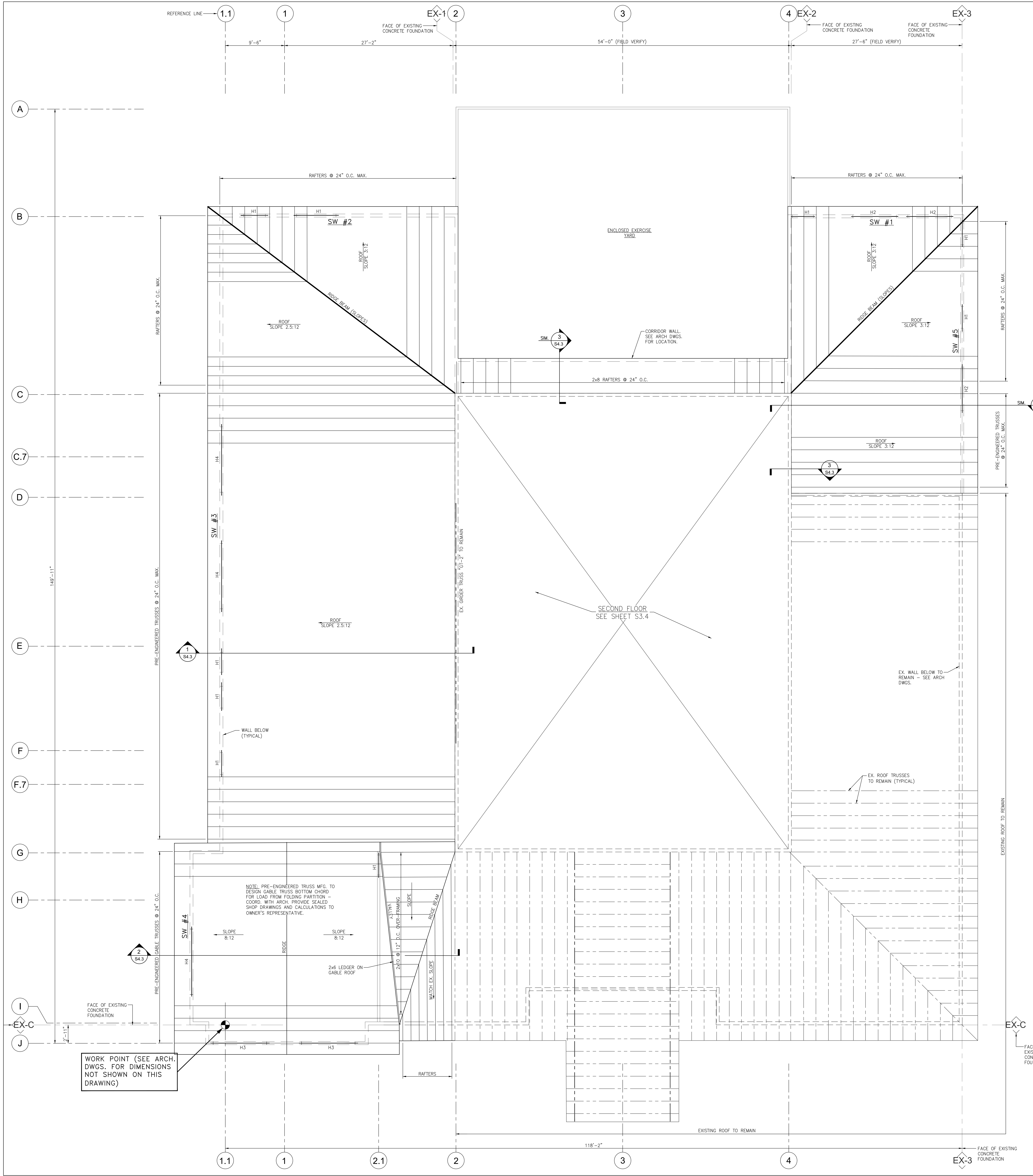
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

ROOF DEMOLITION PLAN

PROGRESS SET ☐ BID SET ☒ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: E. Fletcher
CHECKED BY: D. VonArx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

S3.4

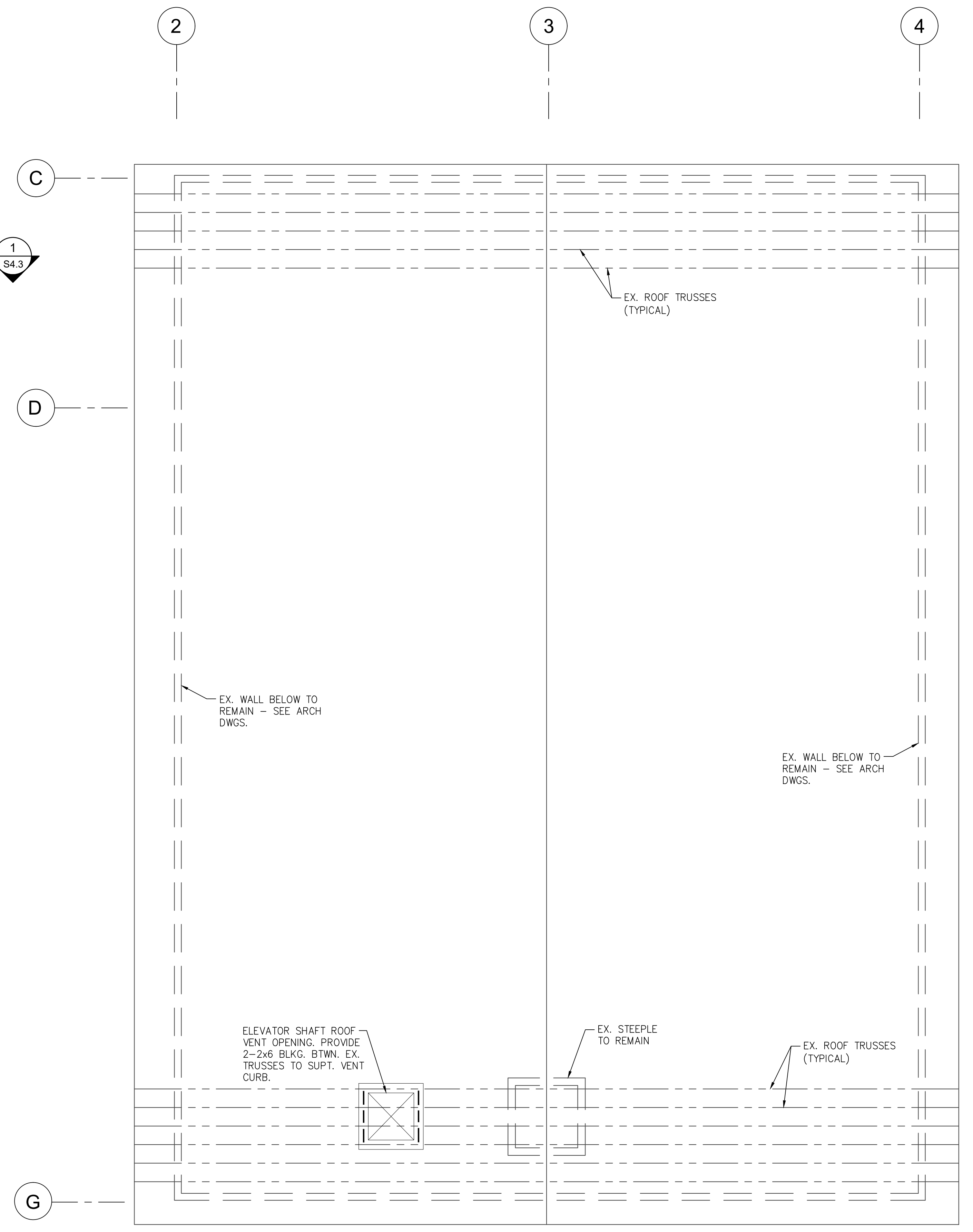

REFERENCE LINE
1.1
1
EX-1
2
3
4
EX-2
EX-3
FACE OF EXISTING CONCRETE FOUNDATION
9'-6"
27'-2"
54'-0" (FIELD VERIFY)
27'-6" (FIELD VERIFY)
A
B
C
C.7
D
E
F
F.7
G
H
I
EX-C
J
149'-11"
RAFTERS @ 24" O.C. MAX.
H1
H2
SW #1
SW #2
SW #3
SW #4
SW #5
ROOF SLOPE 3:12
ROOF SLOPE 2.5:12
RIDGE BEAM (SLOPES)
ENCLOSED EXERCISE YARD
CORRIDOR WALL. SEE ARCH DWGS. FOR LOCATION.
SIM
3
S4.3
1
S4.3
2x8 RAFTERS @ 24" O.C.
PRE-ENGINEERED TRUSSES @ 24" O.C. MAX.
H4
EX. GIRDER TRUSS "GT-2" TO REMAIN
SECOND FLOOR SEE SHEET S3.4
EX. WALL BELOW TO REMAIN - SEE ARCH DWGS.
WALL BELOW (TYPICAL)
EX. ROOF TRUSSES TO REMAIN (TYPICAL)
EXISTING ROOF TO REMAIN
NOTE: PRE-ENGINEERED TRUSS MFG. TO DESIGN GABLE TRUSS BOTTOM CHORD FOR LOAD FROM FOLDING PARTITION - COORD. WITH ARCH. PROVIDE SEALED SHOP DRAWINGS AND CALCULATIONS TO OWNER'S REPRESENTATIVE.
SLOPE 8:12
RIDGE
2x6 LEDGER ON GABLE ROOF
2x10 @ 12" O.C. OVER-FRAMING
RIDGE BEAM
MATCH EX. SLOPE
SLOPE
PRE-ENGINEERED GABLE TRUSSES @ 24" O.C.
2
S4.3
FACE OF EXISTING CONCRETE FOUNDATION
2'-11"
H3
WORK POINT (SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN ON THIS DRAWING)
RAFTERS
118'-2"
2.1

MAIN ROOF FRAMING PLAN

3/16"=1'-0"

PLAN NOTES:

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY STRUCTURAL ENGINEER OF ANY DISCREPANCIES WITH THE DRAWINGS.
2. SEE SHEET S1.0 FOR STRUCTURAL GENERAL NOTES.
3. SEE SHEET S2.1 AND S2.2 FOR STRUCTURAL STANDARD DETAILS.
4. SEE SHEET S3.4 FOR PARTIAL EXISTING ROOF DEMOLITION PLAN.
5. SEE SHEET S2.2 FOR HEADER SCHEDULE.
6. SEE SHEET S5.0 FOR SHEAR WALL ELEVATIONS.
7. SEE ARCHITECT'S DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ROOF DEMO AND NEW ROOFING.
8. SEE ARCHITECT'S DRAWINGS FOR EXISTING BUILDING INFORMATION.


2
3
4
C
D
G
EX. ROOF TRUSSES (TYPICAL)
EX. WALL BELOW TO REMAIN - SEE ARCH DWGS.
ELEVATOR SHAFT ROOF VENT OPENING. PROVIDE 2-2x6 BLKG. BTWN. EX. TRUSSES TO SUPT. VENT CURB.
EX. STEEPLE TO REMAIN

ROOF FRAMING PLAN ABOVE SECOND FLOOR

3/16"=1'-0"

NO.	DESCRIPTION	DATE
	REVISION	

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4848 STATE ROUTE 30, HOUSE SPRINGS, MO

ROOF FRAMING PLANS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

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SCALE: As Noted
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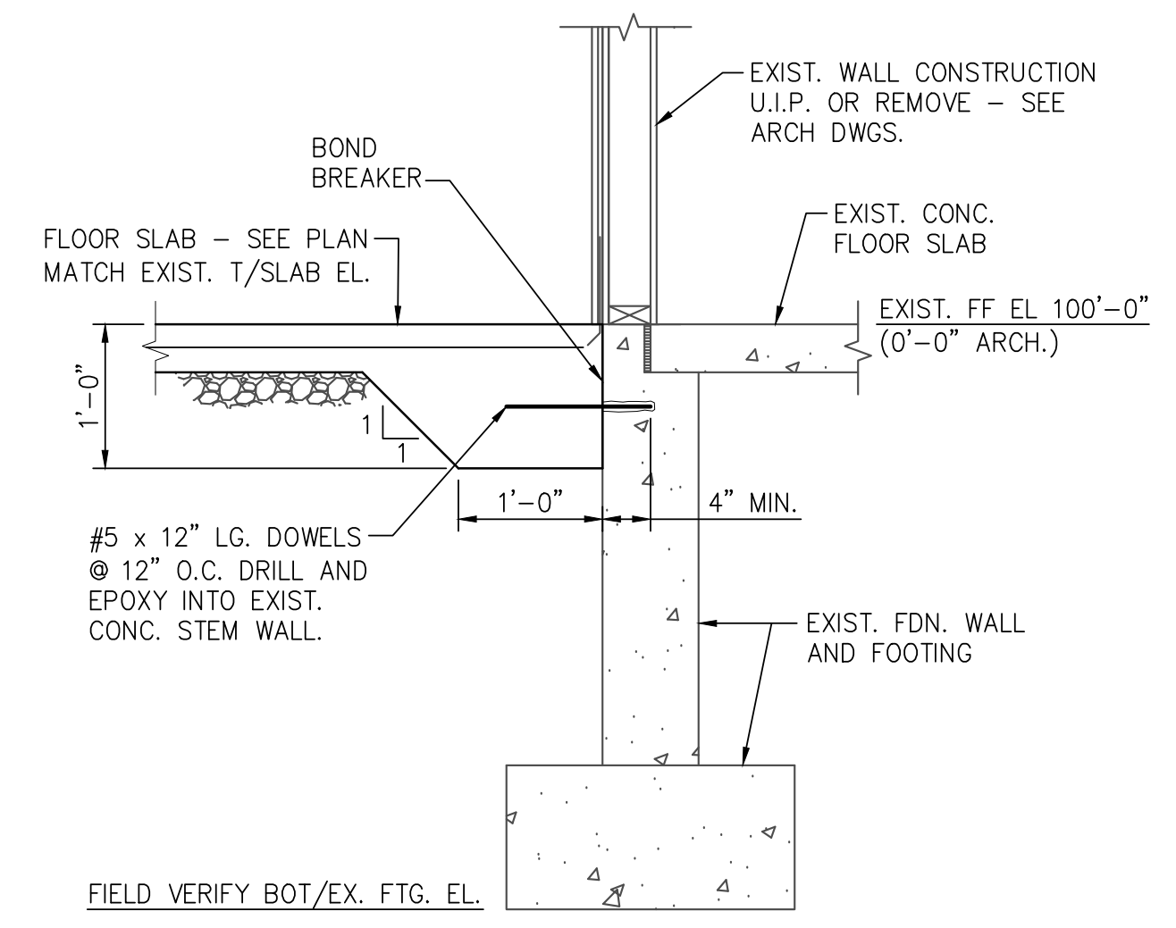
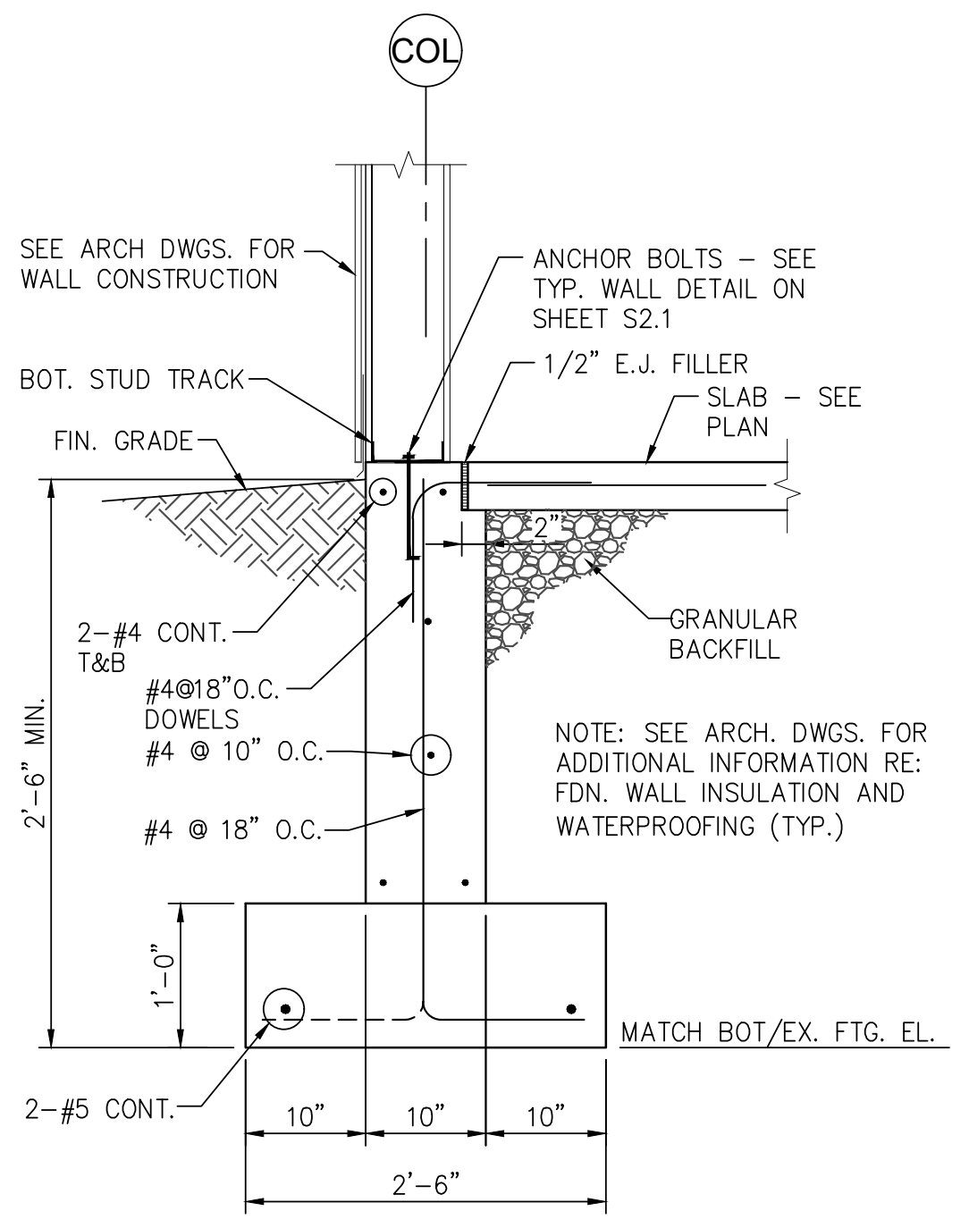

EXIST. WALL CONSTRUCTION U.I.P. OR REMOVE – SEE ARCH DWGS.
BOND BREAKER
EXIST. CONC. FLOOR SLAB
FLOOR SLAB – SEE PLAN MATCH EXIST. T/SLAB EL.
EXIST. FF EL 100'–0" (0'–0" ARCH.)
1'–0"
1
1
#5 x 12" LG. DOWELS @ 12" O.C. DRILL AND EPOXY INTO EXIST. CONC. STEM WALL.
1'–0"
4" MIN.
EXIST. FDN. WALL AND FOOTING
FIELD VERIFY BOT/EX. FTG. EL.

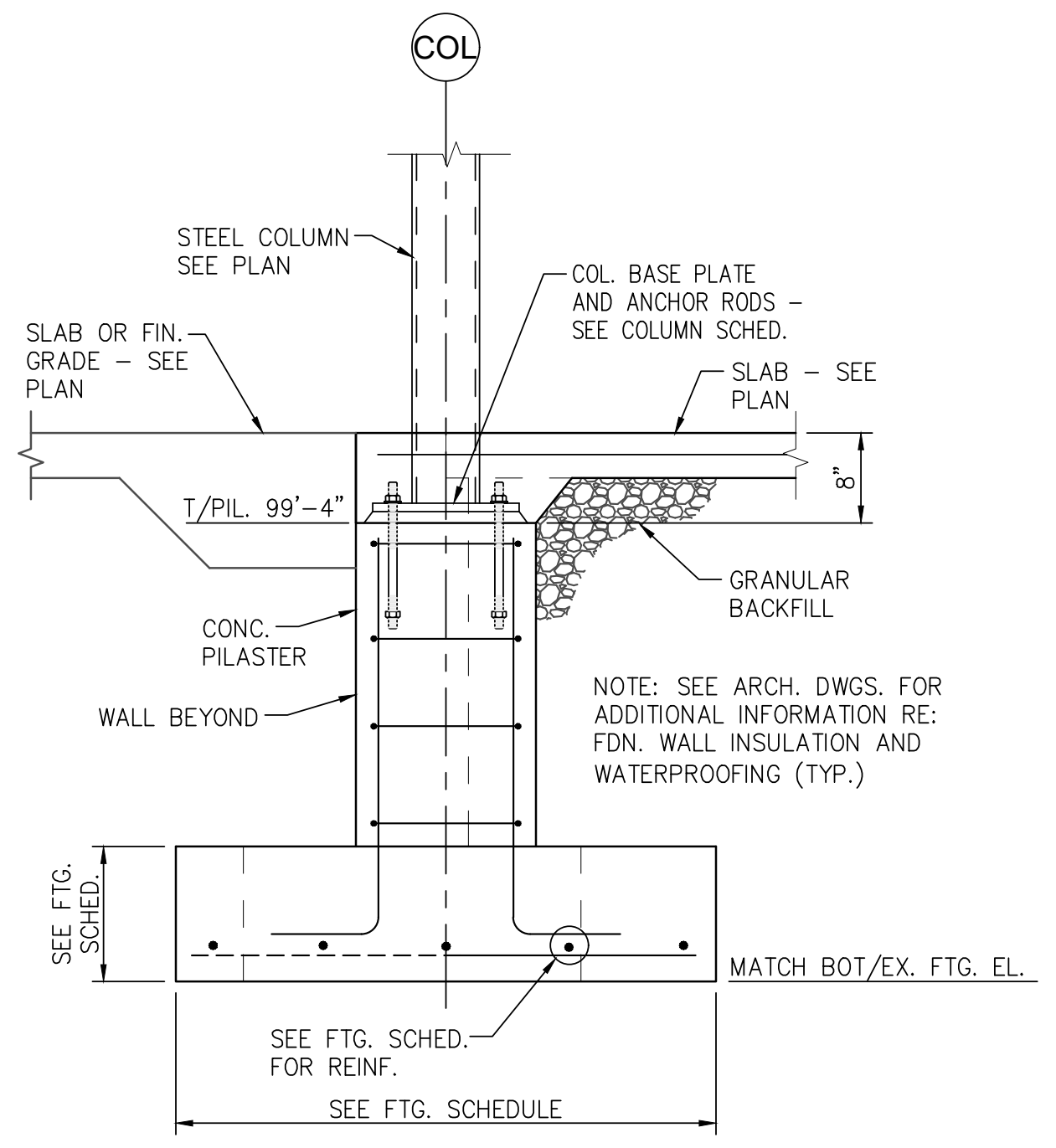
SECTION 1

3/4"=1'–0" S3.1 S3.2


COL
SEE ARCH DWGS. FOR WALL CONSTRUCTION
ANCHOR BOLTS – SEE TYP. WALL DETAIL ON SHEET S2.1
1/2" E.J. FILLER
BOT. STUD TRACK
SLAB – SEE PLAN
FIN. GRADE
2"
2–#4 CONT. T&B
GRANULAR BACKFILL
#4@18"O.C. DOWELS
#4 @ 10" O.C.
#4 @ 18" O.C.
2'–6" MIN.
NOTE: SEE ARCH. DWGS. FOR ADDITIONAL INFORMATION RE: FDN. WALL INSULATION AND WATERPROOFING (TYP.)
1'–0"
MATCH BOT/EX. FTG. EL.
2–#5 CONT.
10"
10"
10"
2'–6"

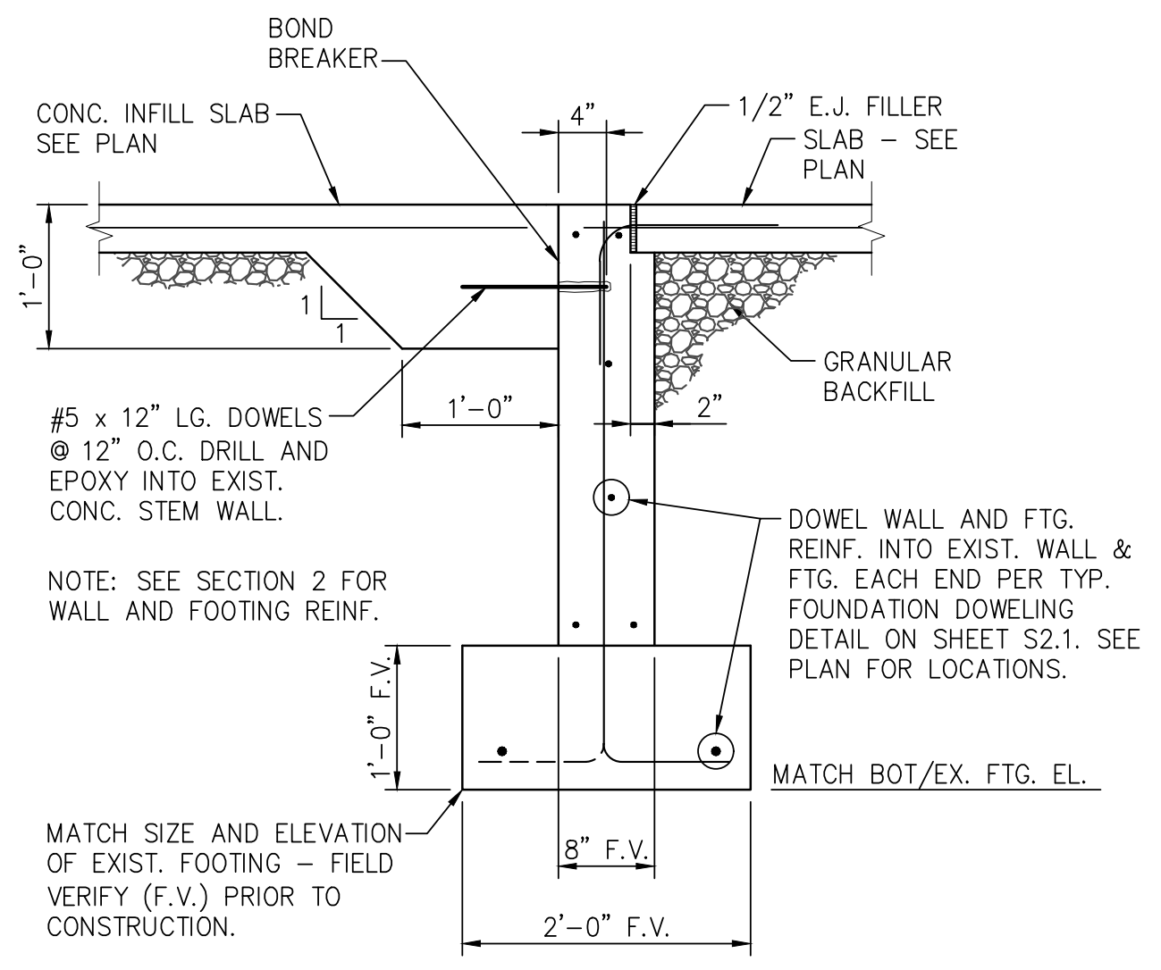
SECTION 2

3/4"=1'–0" S3.1 S3.2


COL
STEEL COLUMN SEE PLAN
COL. BASE PLATE AND ANCHOR RODS – SEE COLUMN SCHED.
SLAB OR FIN. GRADE – SEE PLAN
SLAB – SEE PLAN
8"
T/PIL. 99'–4"
GRANULAR BACKFILL
CONC. PILASTER
WALL BEYOND
NOTE: SEE ARCH. DWGS. FOR ADDITIONAL INFORMATION RE: FDN. WALL INSULATION AND WATERPROOFING (TYP.)
SEE FTG. SCHED.
MATCH BOT/EX. FTG. EL.
SEE FTG. SCHED. FOR REINF.
SEE FTG. SCHEDULE

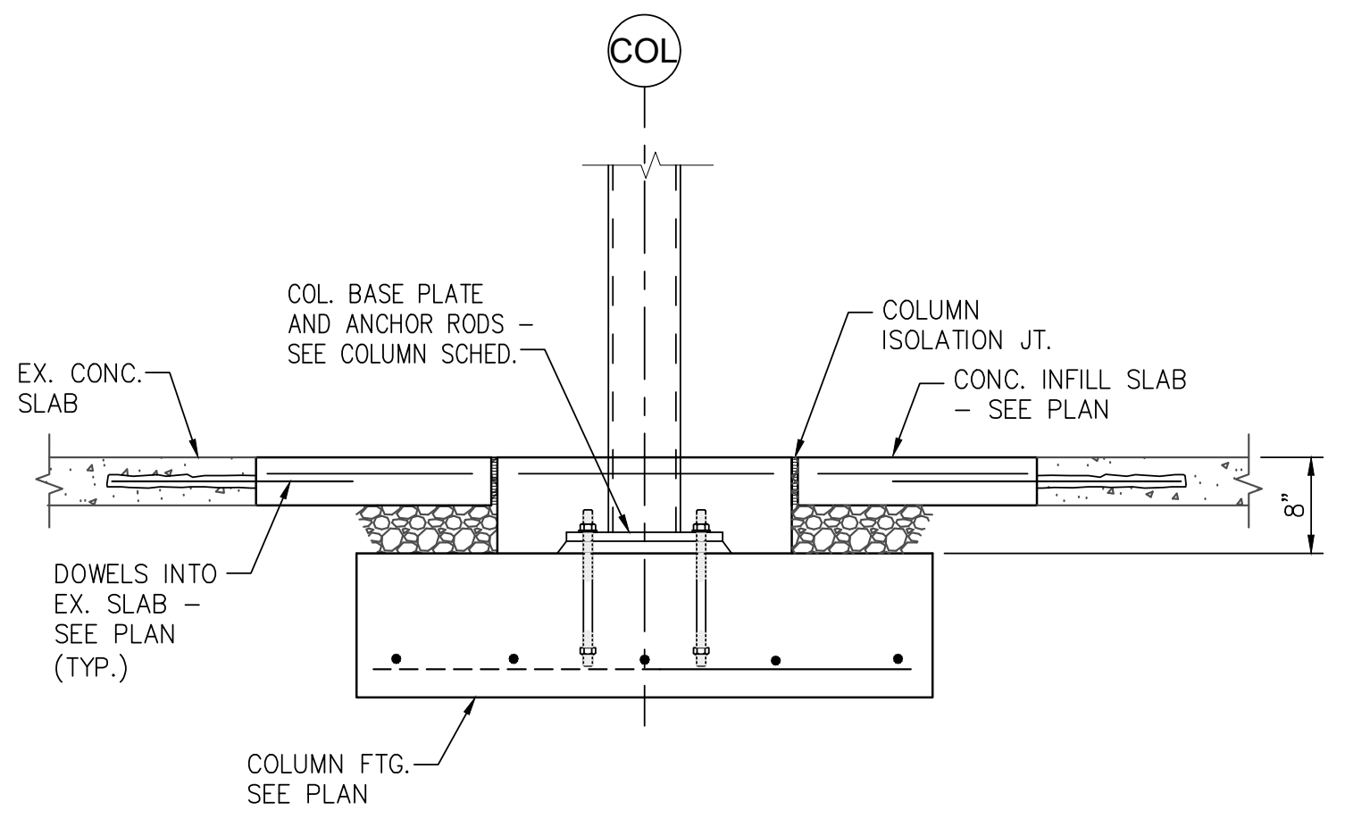
SECTION 3

3/4"=1'–0" S3.1 S3.2


BOND BREAKER
CONC. INFILL SLAB SEE PLAN
4"
1/2" E.J. FILLER
SLAB – SEE PLAN
1'–0"
1
1
GRANULAR BACKFILL
#5 x 12" LG. DOWELS @ 12" O.C. DRILL AND EPOXY INTO EXIST. CONC. STEM WALL.
1'–0"
2"
DOWEL WALL AND FTG. REINF. INTO EXIST. WALL & FTG. EACH END PER TYP. FOUNDATION DOWELING DETAIL ON SHEET S2.1. SEE PLAN FOR LOCATIONS.
NOTE: SEE SECTION 2 FOR WALL AND FOOTING REINF.
1'–0" F.V.
MATCH BOT/EX. FTG. EL.
MATCH SIZE AND ELEVATION OF EXIST. FOOTING – FIELD VERIFY (F.V.) PRIOR TO CONSTRUCTION.
8" F.V.
2'–0" F.V.

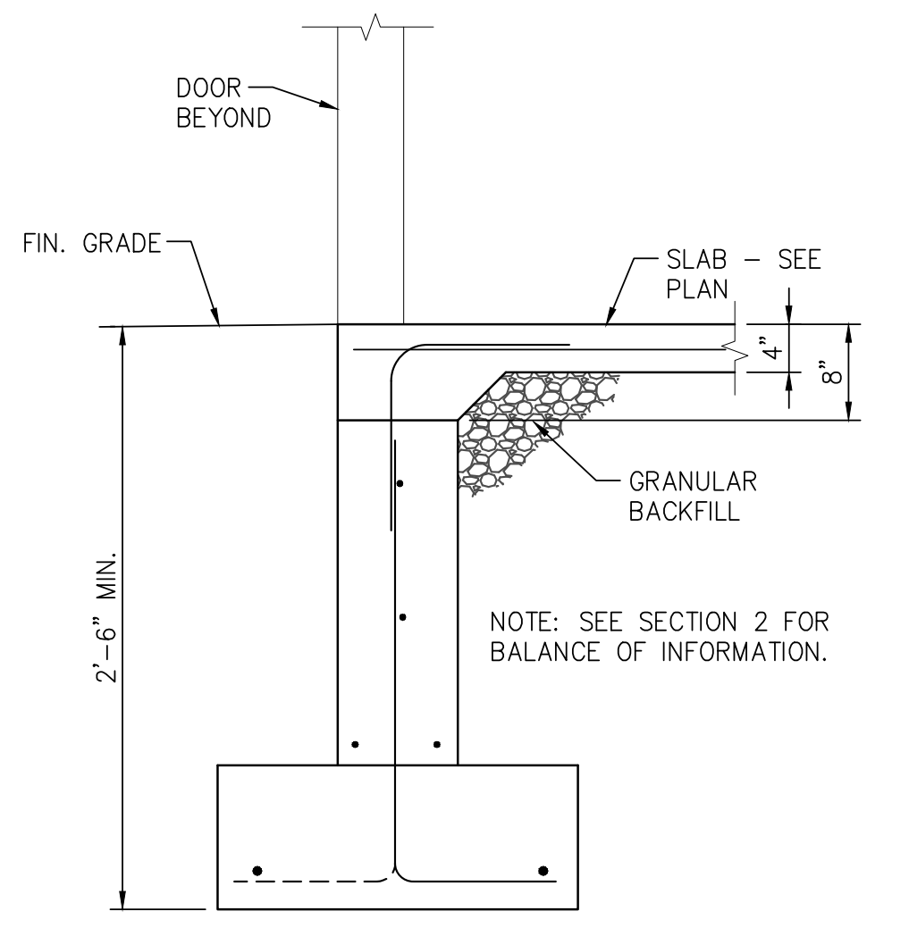
SECTION 4

3/4"=1'–0" S3.1 S3.2


COL
COL. BASE PLATE AND ANCHOR RODS – SEE COLUMN SCHED.
COLUMN ISOLATION JT.
EX. CONC. SLAB
CONC. INFILL SLAB – SEE PLAN
8"
DOWELS INTO EX. SLAB – SEE PLAN (TYP.)
COLUMN FTG. SEE PLAN

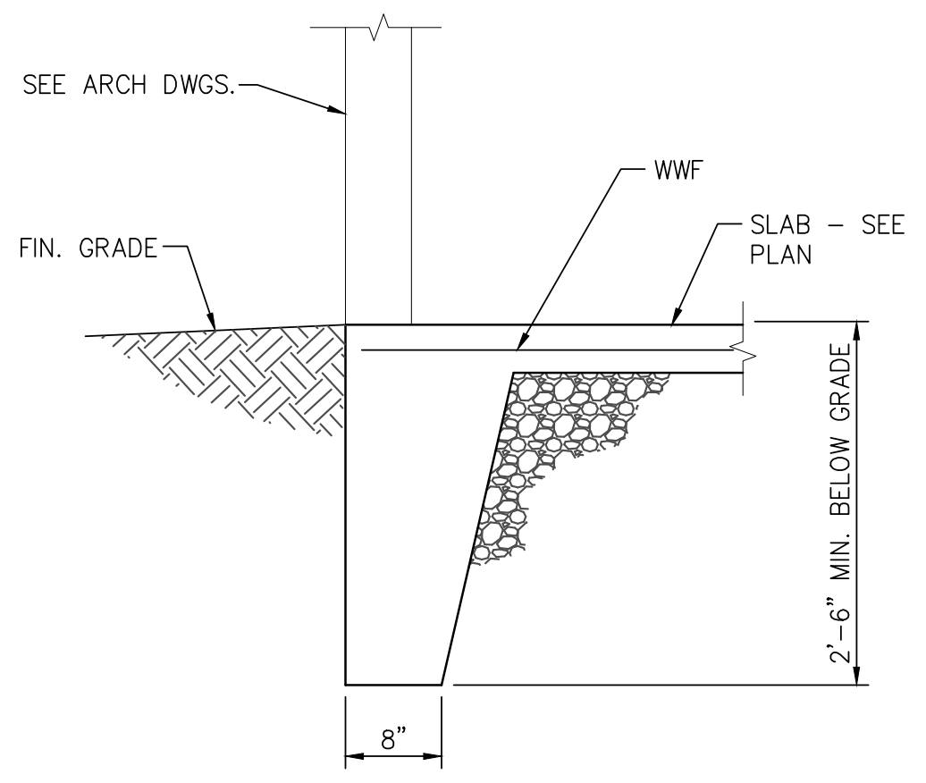
SECTION 5

3/4"=1'–0" S3.1 S3.2


DOOR BEYOND
FIN. GRADE
SLAB – SEE PLAN
4"
8"
GRANULAR BACKFILL
2'–6" MIN.
NOTE: SEE SECTION 2 FOR BALANCE OF INFORMATION.

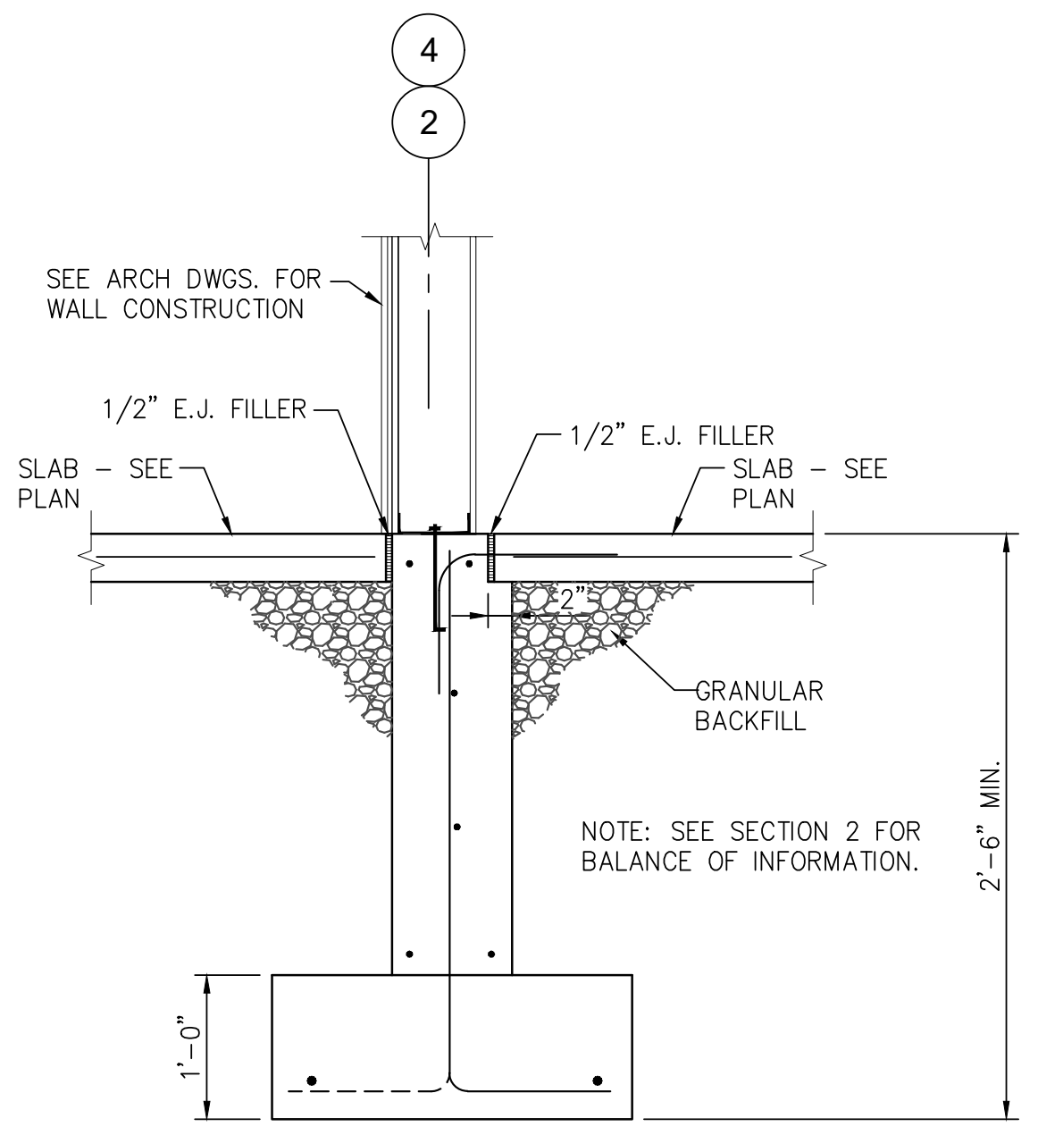
SECTION 6

3/4"=1'–0" S3.1 S3.2


SEE ARCH DWGS.
WWF
FIN. GRADE
SLAB – SEE PLAN
2'–6" MIN. BELOW GRADE
8"

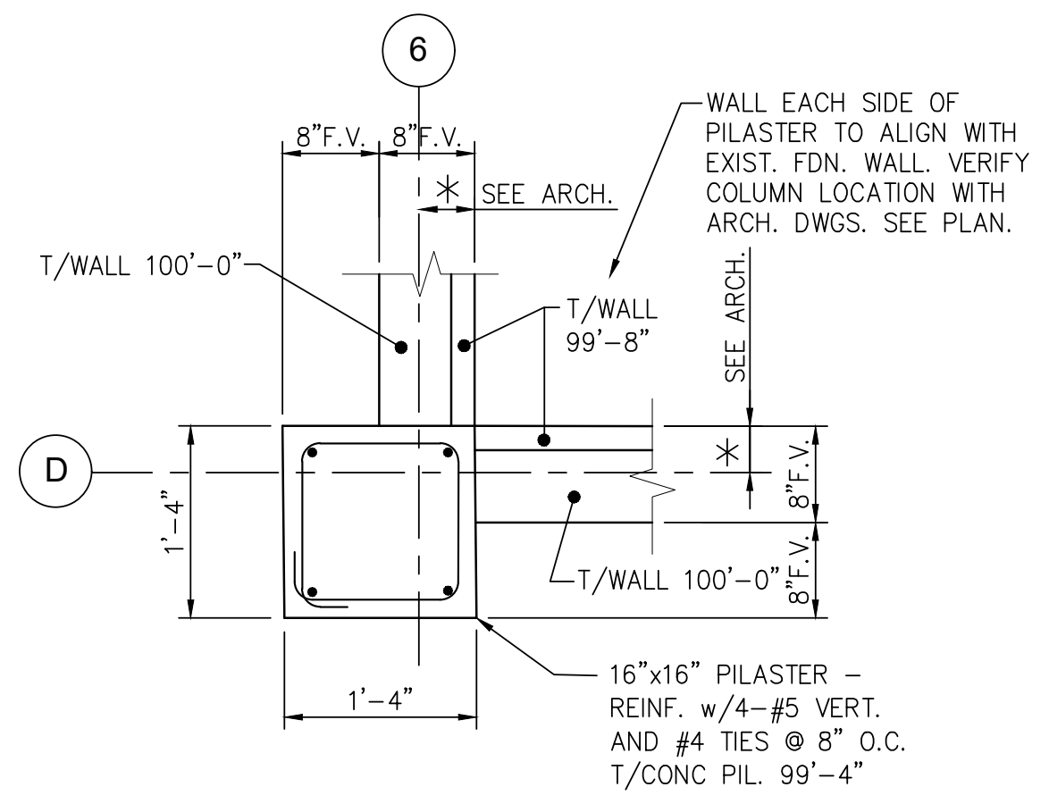
SECTION 7

3/4"=1'–0" S3.1 S3.2


4
2
SEE ARCH DWGS. FOR WALL CONSTRUCTION
1/2" E.J. FILLER
1/2" E.J. FILLER
SLAB – SEE PLAN
SLAB – SEE PLAN
2"
GRANULAR BACKFILL
NOTE: SEE SECTION 2 FOR BALANCE OF INFORMATION.
2'–6" MIN.
1'–0"

SECTION 8

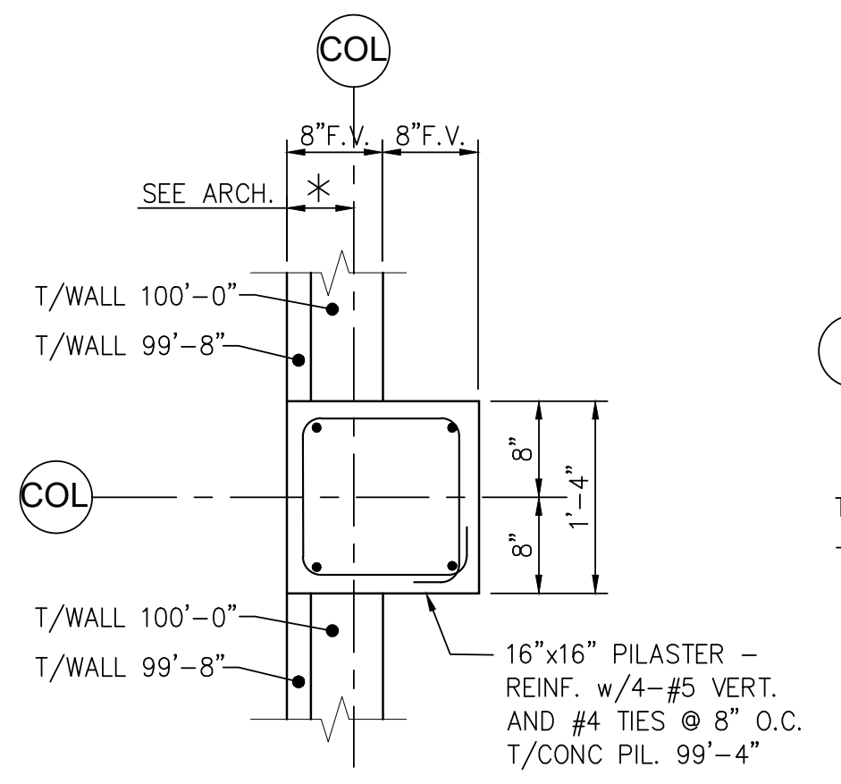
3/4"=1'–0" S3.1 S3.2


6
8"F.V.
8"F.V.
SEE ARCH.
WALL EACH SIDE OF PILASTER TO ALIGN WITH EXIST. FDN. WALL. VERIFY COLUMN LOCATION WITH ARCH. DWGS. SEE PLAN.
T/WALL 100'–0"
T/WALL 99'–8"
SEE ARCH.
D
1'–4"
8"F.V.
8"F.V.
T/WALL 100'–0"
1'–4"
16"x16" PILASTER – REINF. w/4–#5 VERT. AND #4 TIES @ 8" O.C. T/CONC PIL. 99'–4"

PILASTER DETAIL AT COL. D–4

3/4"=1'–0" S3.1

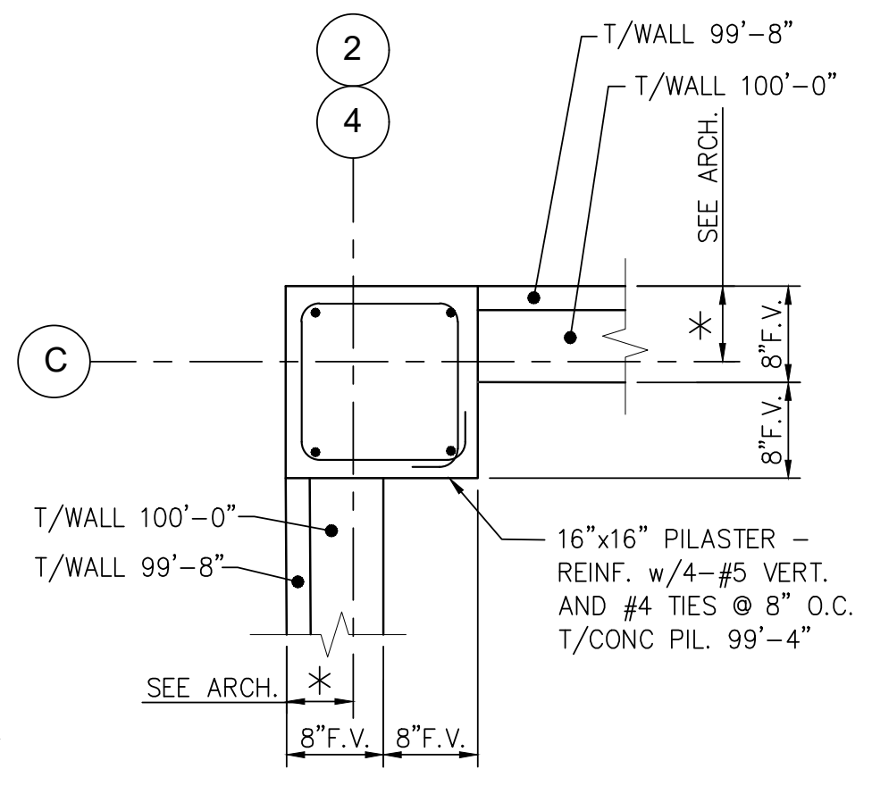
*NOTE: CONTRACTOR TO COORDINATE ALL COLUMN LOCATIONS WITH ARCHITECT'S DRAWINGS. COLUMN LOCATIONS ARE DEPENDENT UPON WALL/PARTITION TYPES AND LOCATIONS.


COL
8"F.V.
8"F.V.
SEE ARCH.
T/WALL 100'–0"
T/WALL 99'–8"
COL
8"
8"
1'–4"
T/WALL 100'–0"
T/WALL 99'–8"
16"x16" PILASTER – REINF. w/4–#5 VERT. AND #4 TIES @ 8" O.C. T/CONC PIL. 99'–4"

NOTE: SEE PLAN FOR ORIENTATION.

PILASTER DETAIL AT COL. C–3, C.7–2

3/4"=1'–0" S3.1


2
4
T/WALL 99'–8"
T/WALL 100'–0"
SEE ARCH.
C
8"F.V.
8"F.V.
T/WALL 100'–0"
T/WALL 99'–8"
16"x16" PILASTER – REINF. w/4–#5 VERT. AND #4 TIES @ 8" O.C. T/CONC PIL. 99'–4"
SEE ARCH.
8"F.V.
8"F.V.

NOTE: SEE PLAN FOR ORIENTATION.

PILASTER DETAIL AT COL. C–2 COL. C–4 OPP. HAND

3/4"=1'–0" S3.1

REVISION		
NO.	DESCRIPTION	DATE

ENGINEER SEAL:

DAVID L. VONARX
NUMBER E-26647
3/22/19

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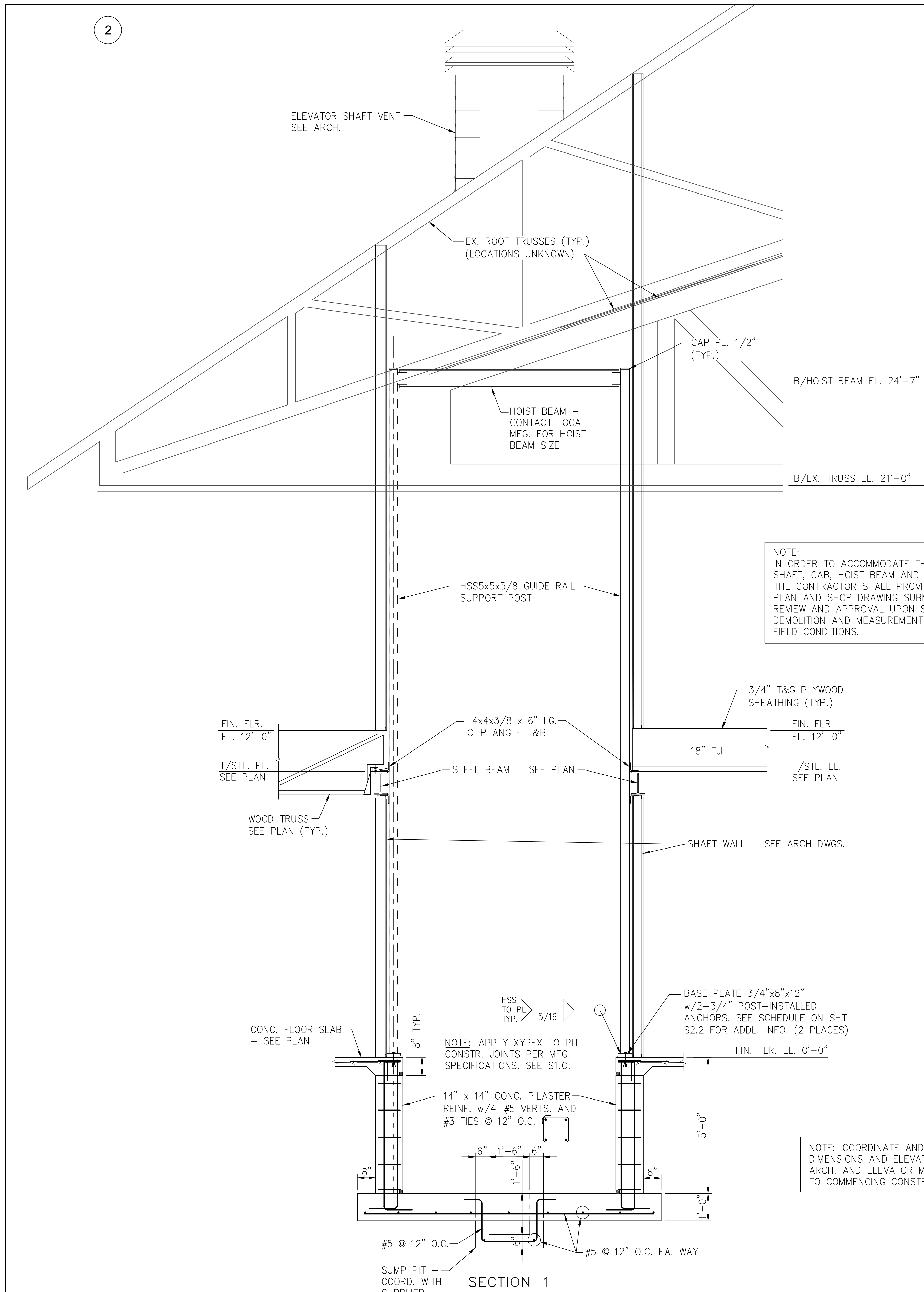
SECTIONS AND DETAILS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

S4.1

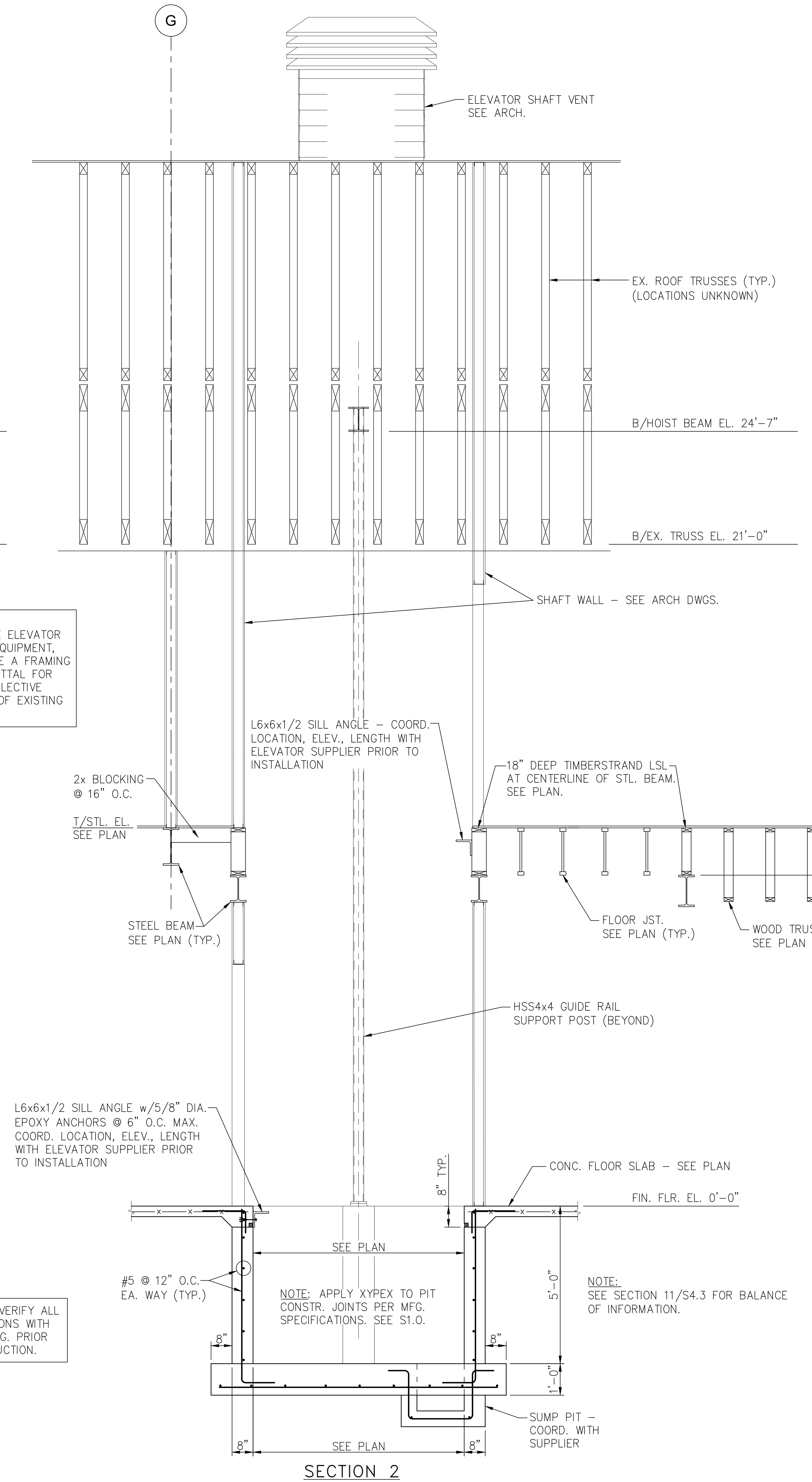

2
ELEVATOR SHAFT VENT SEE ARCH.
EX. ROOF TRUSSES (TYP.) (LOCATIONS UNKNOWN)
CAP PL. 1/2" (TYP.)
B/HOIST BEAM EL. 24'-7"
HOIST BEAM – CONTACT LOCAL MFG. FOR HOIST BEAM SIZE
B/EX. TRUSS EL. 21'-0"
HSS5x5x5/8 GUIDE RAIL SUPPORT POST
3/4" T&G PLYWOOD SHEATHING (TYP.)
FIN. FLR. EL. 12'-0"
L4x4x3/8 x 6" LG. CLIP ANGLE T&B
18" TJI
FIN. FLR. EL. 12'-0"
T/STL. EL. SEE PLAN
STEEL BEAM – SEE PLAN
T/STL. EL. SEE PLAN
WOOD TRUSS SEE PLAN (TYP.)
SHAFT WALL – SEE ARCH DWGS.
HSS TO PL. TYP. 5/16
BASE PLATE 3/4"x8"x12" w/2–3/4" POST–INSTALLED ANCHORS. SEE SCHEDULE ON SHT. S2.2 FOR ADDL. INFO. (2 PLACES)
CONC. FLOOR SLAB – SEE PLAN
8" TYP.
FIN. FLR. EL. 0'-0"
14" x 14" CONC. PILASTER REINF. w/4–#5 VERTS. AND #3 TIES @ 12" O.C.
6" 1'-6" 6"
1'-6"
5'-0"
8"
8"
1'-0"
6"
#5 @ 12" O.C.
#5 @ 12" O.C. EA. WAY
SUMP PIT – COORD. WITH SUPPLIER

NOTE: APPLY XYPEX TO PIT CONSTR. JOINTS PER MFG. SPECIFICATIONS. SEE S1.0.

SECTION 1
1/2"=1'-0" S3.1 S3.2 S3.3 S3.5

NOTE:
IN ORDER TO ACCOMMODATE THE ELEVATOR SHAFT, CAB, HOIST BEAM AND EQUIPMENT, THE CONTRACTOR SHALL PROVIDE A FRAMING PLAN AND SHOP DRAWING SUBMITTAL FOR REVIEW AND APPROVAL UPON SELECTIVE DEMOLITION AND MEASUREMENT OF EXISTING FIELD CONDITIONS.

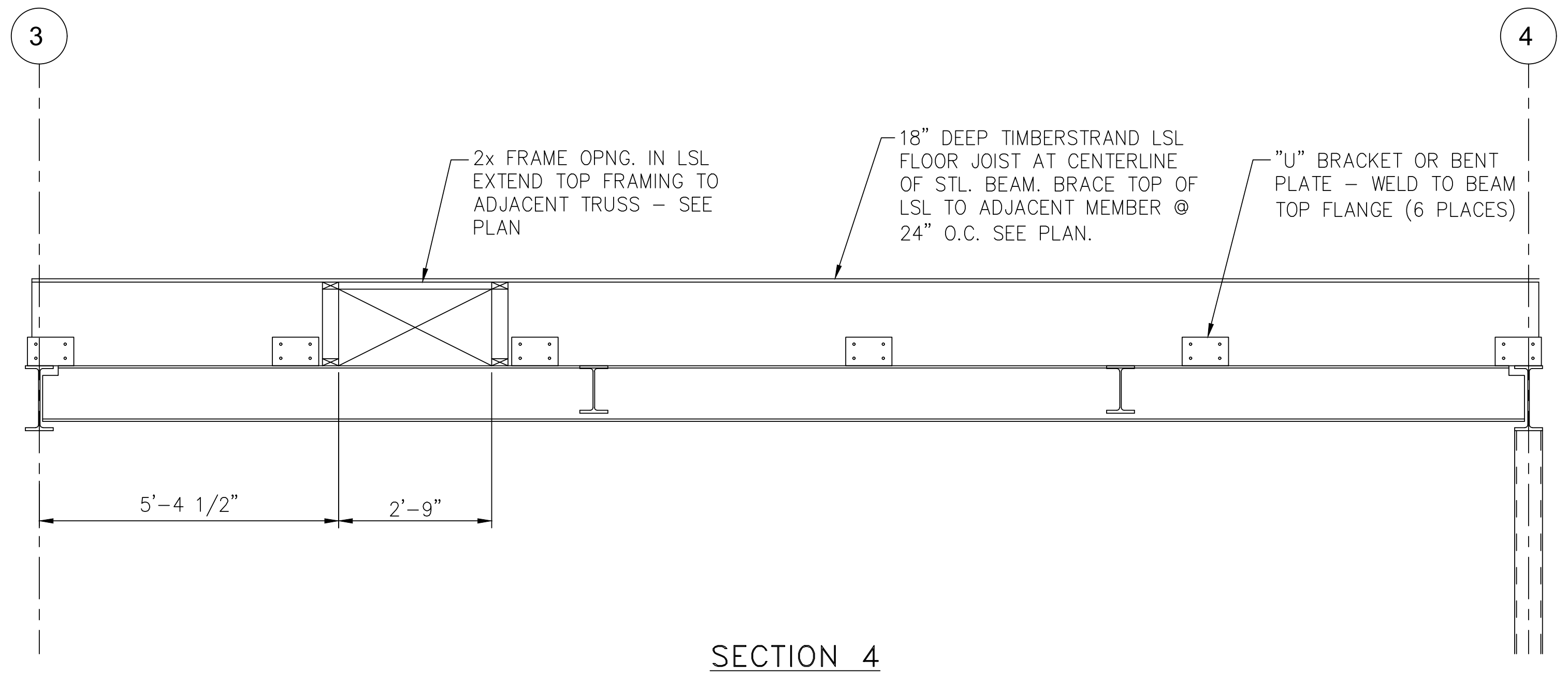
NOTE: COORDINATE AND VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCH. AND ELEVATOR MFG. PRIOR TO COMMENCING CONSTRUCTION.


G
ELEVATOR SHAFT VENT SEE ARCH.
EX. ROOF TRUSSES (TYP.) (LOCATIONS UNKNOWN)
B/HOIST BEAM EL. 24'-7"
B/EX. TRUSS EL. 21'-0"
SHAFT WALL – SEE ARCH DWGS.
L6x6x1/2 SILL ANGLE – COORD. LOCATION, ELEV., LENGTH WITH ELEVATOR SUPPLIER PRIOR TO INSTALLATION
2x BLOCKING @ 16" O.C.
18" DEEP TIMBERSTRAND LSL AT CENTERLINE OF STL. BEAM. SEE PLAN.
T/STL. EL. SEE PLAN
FIN. FLR. EL. 12'-0"
T/STL. EL. SEE PLAN
STEEL BEAM SEE PLAN (TYP.)
FLOOR JST. SEE PLAN (TYP.)
WOOD TRUSS SEE PLAN (TYP.)
HSS4x4 GUIDE RAIL SUPPORT POST (BEYOND)
L6x6x1/2 SILL ANGLE w/5/8" DIA. EPOXY ANCHORS @ 6" O.C. MAX. COORD. LOCATION, ELEV., LENGTH WITH ELEVATOR SUPPLIER PRIOR TO INSTALLATION
CONC. FLOOR SLAB – SEE PLAN
8" TYP.
FIN. FLR. EL. 0'-0"
SEE PLAN
#5 @ 12" O.C. EA. WAY (TYP.)
5'-0"
8"
8"
1'-0"
SUMP PIT – COORD. WITH SUPPLIER
8"
SEE PLAN
8"

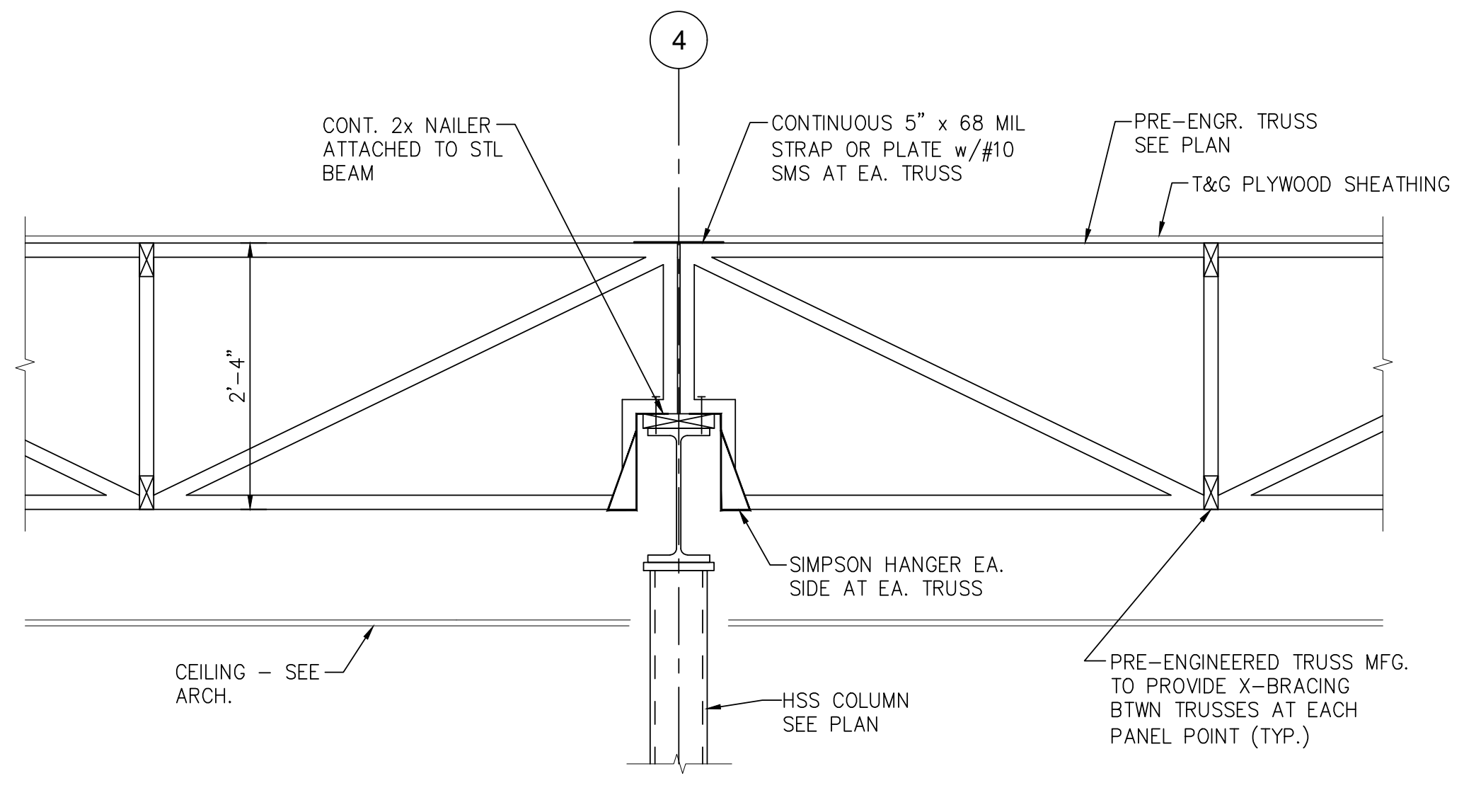
NOTE: APPLY XYPEX TO PIT CONSTR. JOINTS PER MFG. SPECIFICATIONS. SEE S1.0.

NOTE:
SEE SECTION 11/S4.3 FOR BALANCE OF INFORMATION.

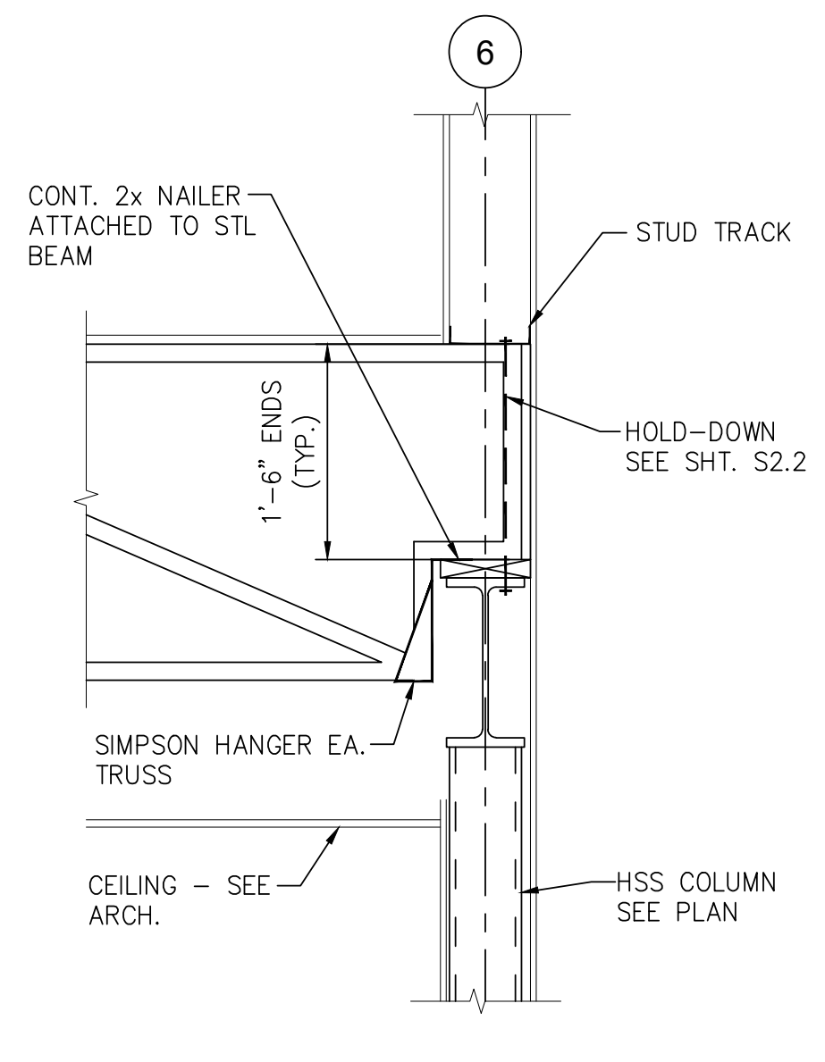
SECTION 2
1/2"=1'-0" S3.1 S3.2 S3.3 S3.5


3
4
2x FRAME OPNG. IN LSL EXTEND TOP FRAMING TO ADJACENT TRUSS – SEE PLAN
18" DEEP TIMBERSTRAND LSL FLOOR JOIST AT CENTERLINE OF STL. BEAM. BRACE TOP OF LSL TO ADJACENT MEMBER @ 24" O.C. SEE PLAN.
"U" BRACKET OR BENT PLATE – WELD TO BEAM TOP FLANGE (6 PLACES)
5'-4 1/2"
2'-9"

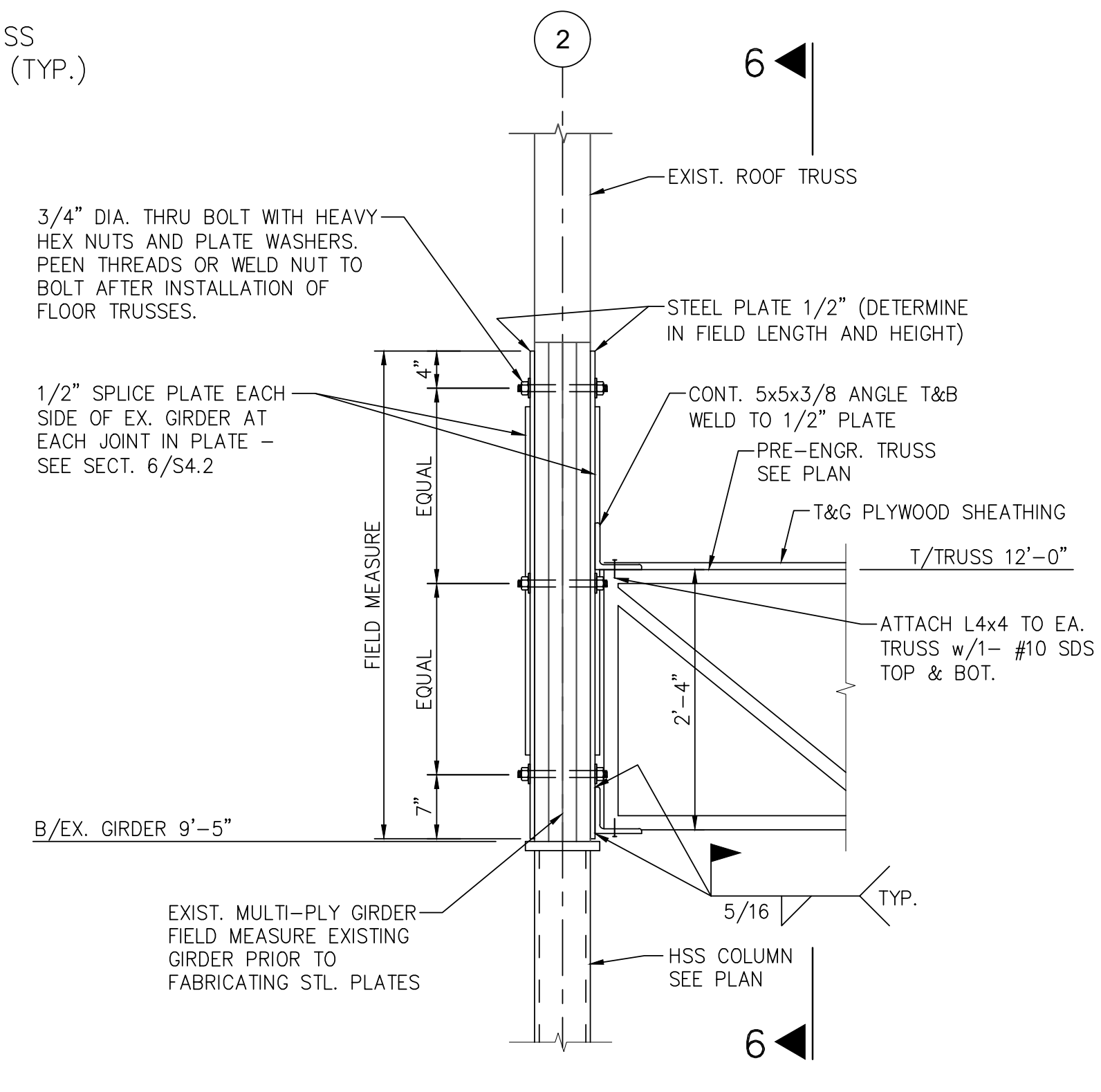
SECTION 4
1/2"=1'-0" S3.3


4
CONT. 2x NAILER ATTACHED TO STL BEAM
CONTINUOUS 5" x 68 MIL STRAP OR PLATE w/#10 SMS AT EA. TRUSS
PRE–ENGR. TRUSS SEE PLAN
T&G PLYWOOD SHEATHING
2'-4"
SIMPSON HANGER EA. SIDE AT EA. TRUSS
CEILING – SEE ARCH.
HSS COLUMN SEE PLAN
PRE–ENGINEERED TRUSS MFG. TO PROVIDE X–BRACING BTWN TRUSSES AT EACH PANEL POINT (TYP.)

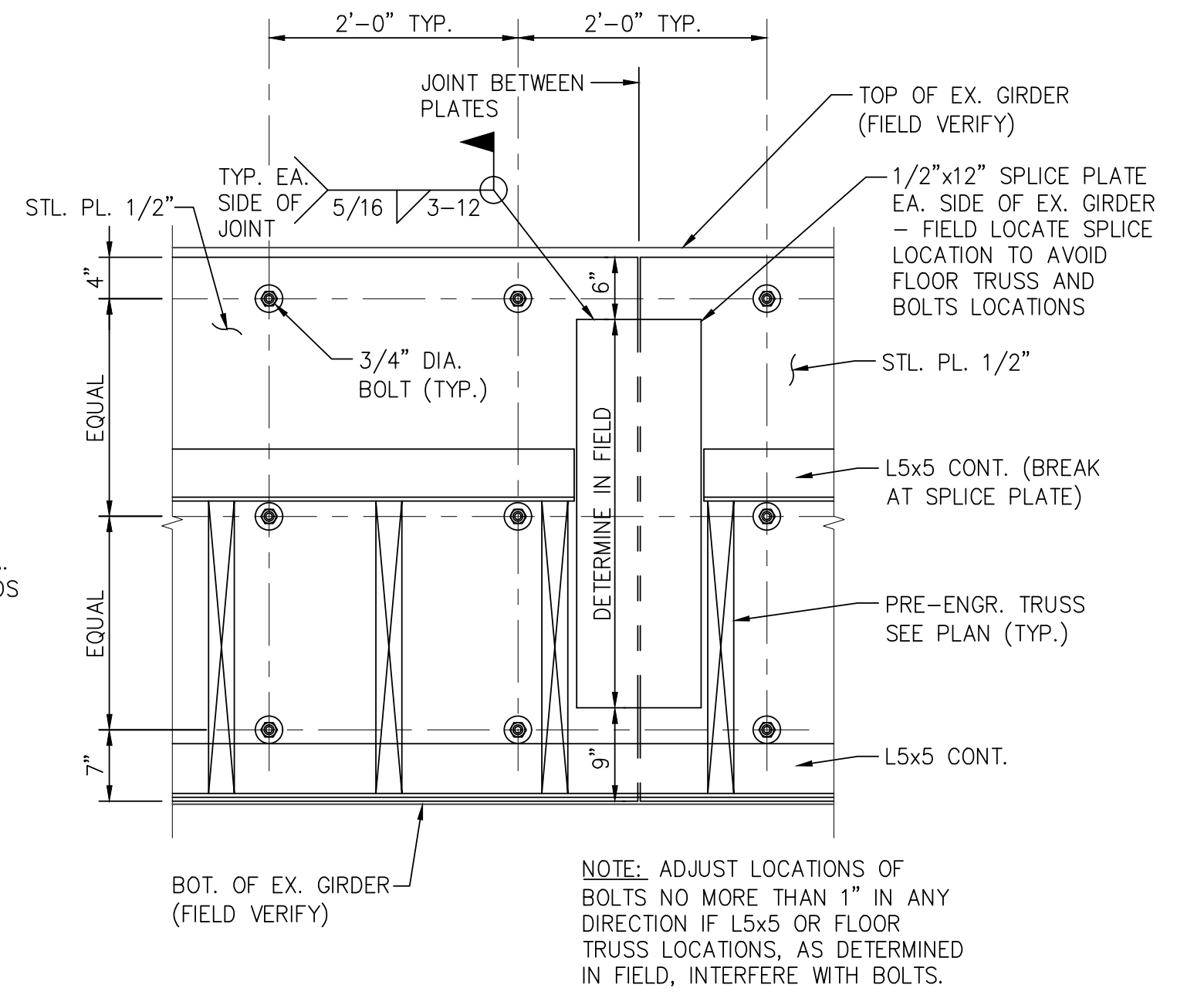
DETAIL A
3/4"=1'-0" S4.2


6
CONT. 2x NAILER ATTACHED TO STL BEAM
STUD TRACK
1'-6" ENDS (TYP.)
HOLD–DOWN SEE SHT. S2.2
SIMPSON HANGER EA. TRUSS
CEILING – SEE ARCH.
HSS COLUMN SEE PLAN

DETAIL B
3/4"=1'-0" S4.2

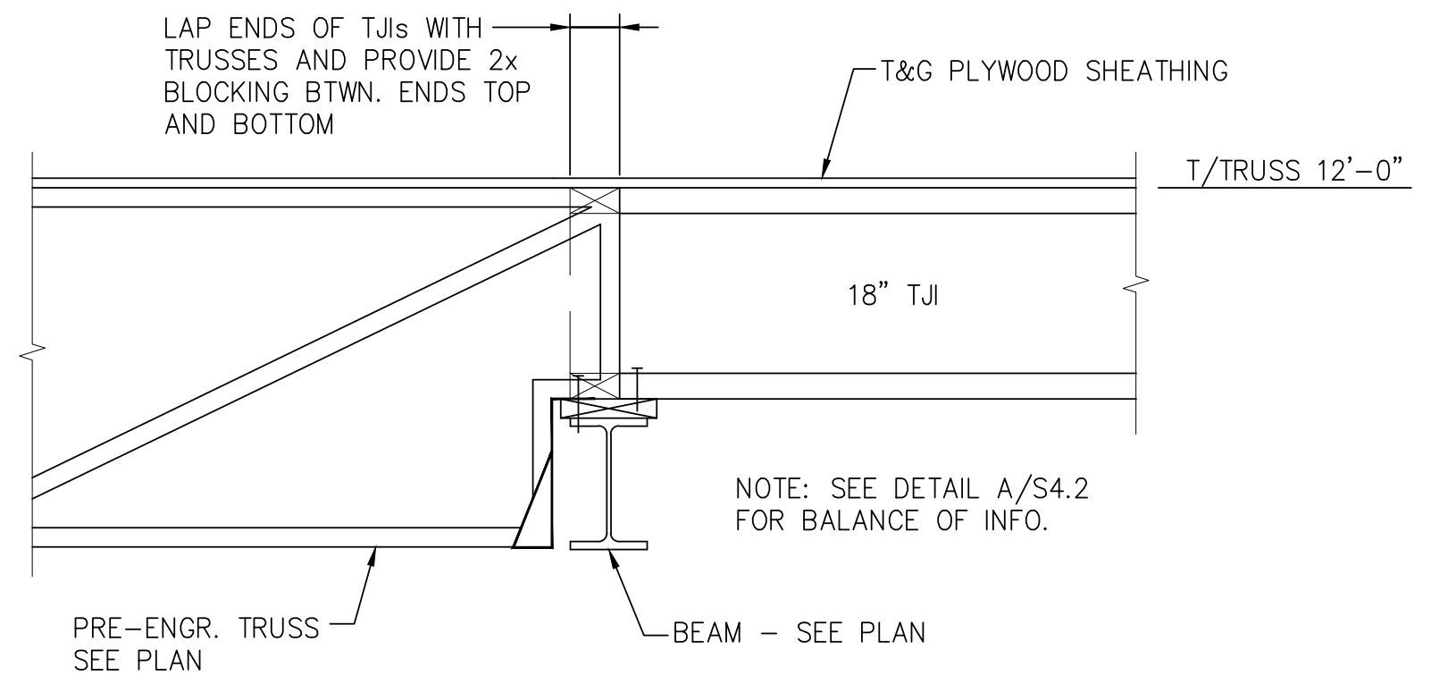

2
6
EXIST. ROOF TRUSS
3/4" DIA. THRU BOLT WITH HEAVY HEX NUTS AND PLATE WASHERS. PEEN THREADS OR WELD NUT TO BOLT AFTER INSTALLATION OF FLOOR TRUSSES.
STEEL PLATE 1/2" (DETERMINE IN FIELD LENGTH AND HEIGHT)
1/2" SPLICE PLATE EACH SIDE OF EX. GIRDER AT EACH JOINT IN PLATE – SEE SECT. 6/S4.2
CONT. 5x5x3/8 ANGLE T&B WELD TO 1/2" PLATE
PRE–ENGR. TRUSS SEE PLAN
T&G PLYWOOD SHEATHING
T/TRUSS 12'-0"
ATTACH L4x4 TO EA. TRUSS w/1– #10 SDS TOP & BOT.
4"
EQUAL
EQUAL
7"
FIELD MEASURE
2'-4"
B/EX. GIRDER 9'-5"
5/16
TYP.
EXIST. MULTI–PLY GIRDER FIELD MEASURE EXISTING GIRDER PRIOR TO FABRICATING STL. PLATES
HSS COLUMN SEE PLAN
6

SECTION 5
3/4"=1'-0" S3.3


2'-0" TYP.
2'-0" TYP.
JOINT BETWEEN PLATES
TOP OF EX. GIRDER (FIELD VERIFY)
STL. PL. 1/2"
TYP. EA. SIDE OF JOINT
5/16
3–12
1/2"x12" SPLICE PLATE EA. SIDE OF EX. GIRDER – FIELD LOCATE SPLICE LOCATION TO AVOID FLOOR TRUSS AND BOLTS LOCATIONS
4"
6"
3/4" DIA. BOLT (TYP.)
STL. PL. 1/2"
EQUAL
EQUAL
DETERMINE IN FIELD
L5x5 CONT. (BREAK AT SPLICE PLATE)
PRE–ENGR. TRUSS SEE PLAN (TYP.)
7"
9"
L5x5 CONT.
BOT. OF EX. GIRDER (FIELD VERIFY)

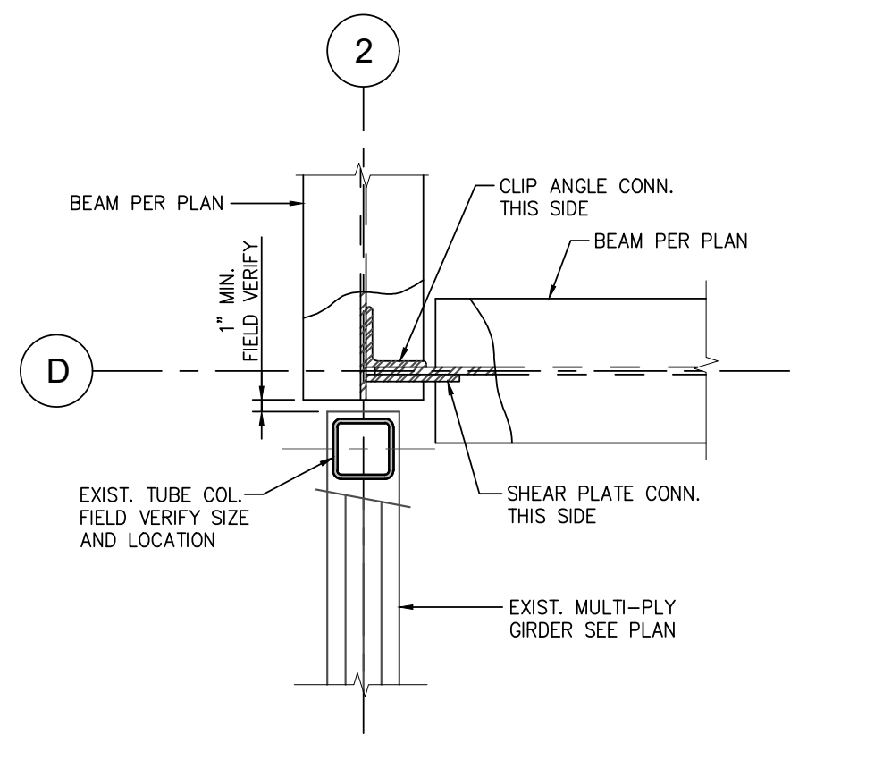
NOTE: ADJUST LOCATIONS OF BOLTS NO MORE THAN 1" IN ANY DIRECTION IF L5x5 OR FLOOR TRUSS LOCATIONS, AS DETERMINED IN FIELD, INTERFERE WITH BOLTS.

SECTION 6
3/4"=1'-0" S3.3

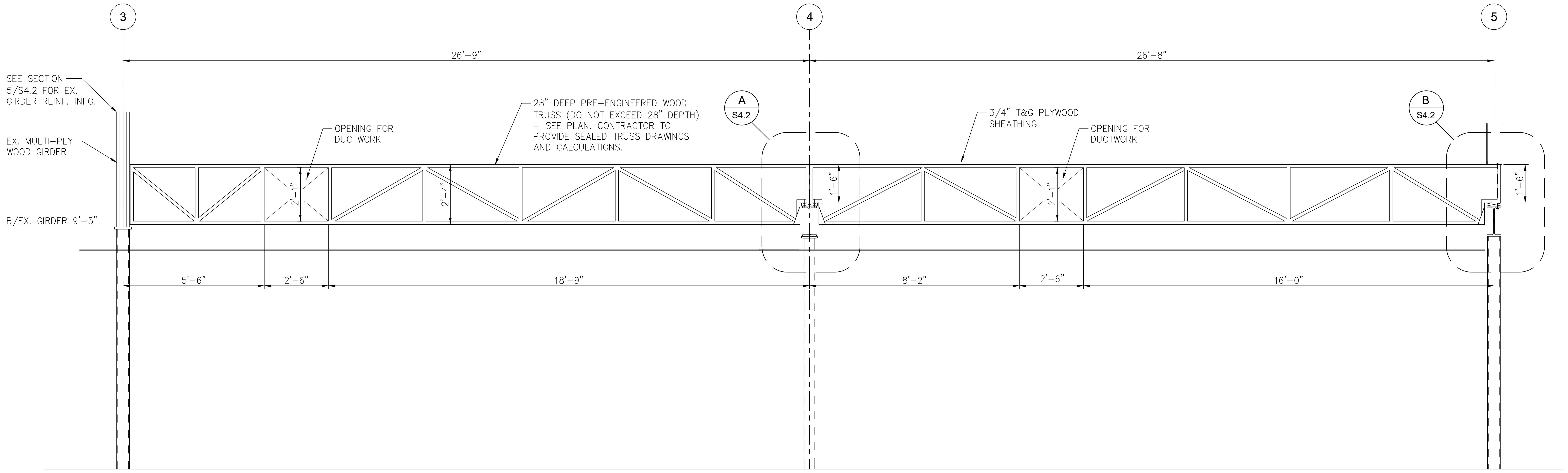

LAP ENDS OF TJIs WITH TRUSSES AND PROVIDE 2x BLOCKING BTWN. ENDS TOP AND BOTTOM
T&G PLYWOOD SHEATHING
T/TRUSS 12'-0"
18" TJI
PRE–ENGR. TRUSS SEE PLAN
BEAM – SEE PLAN

NOTE: SEE DETAIL A/S4.2 FOR BALANCE OF INFO.

SECTION 7
3/4"=1'-0" S3.3


2
BEAM PER PLAN
CLIP ANGLE CONN. THIS SIDE
BEAM PER PLAN
1" MIN. FIELD VERIFY
D
EXIST. TUBE COL. FIELD VERIFY SIZE AND LOCATION
SHEAR PLATE CONN. THIS SIDE
EXIST. MULTI–PLY GIRDER SEE PLAN

DETAIL C
1"=1'-0" S3.3


3
4
5
26'-9"
26'-8"
SEE SECTION 5/S4.2 FOR EX. GIRDER REINF. INFO.
EX. MULTI–PLY WOOD GIRDER
OPENING FOR DUCTWORK
28" DEEP PRE–ENGINEERED WOOD TRUSS (DO NOT EXCEED 28" DEPTH) – SEE PLAN. CONTRACTOR TO PROVIDE SEALED TRUSS DRAWINGS AND CALCULATIONS.
A S4.2
3/4" T&G PLYWOOD SHEATHING
OPENING FOR DUCTWORK
B S4.2
2'-1"
2'-4"
1'-6"
2'-1"
1'-6"
B/EX. GIRDER 9'-5"
5'-6"
2'-6"
18'-9"
8'-2"
2'-6"
16'-0"

SECTION 3 – PRE–ENGINEERED WOOD TRUSS ELEVATION
1/2"=1'-0" S3.3

REVISION

NO.	DESCRIPTION	DATE

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NUMBER E-46647
3/22/19

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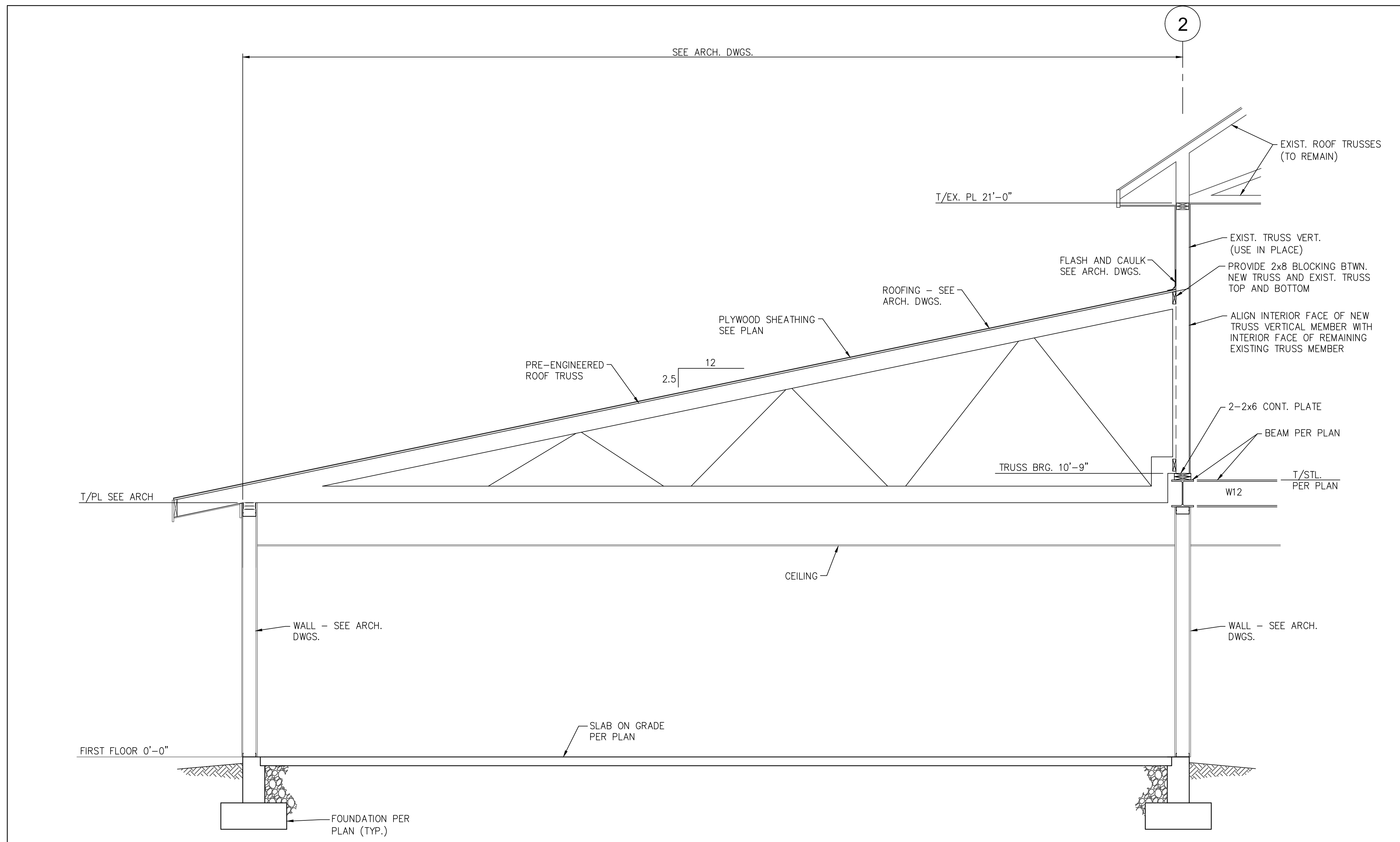
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

SECTIONS AND DETAILS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

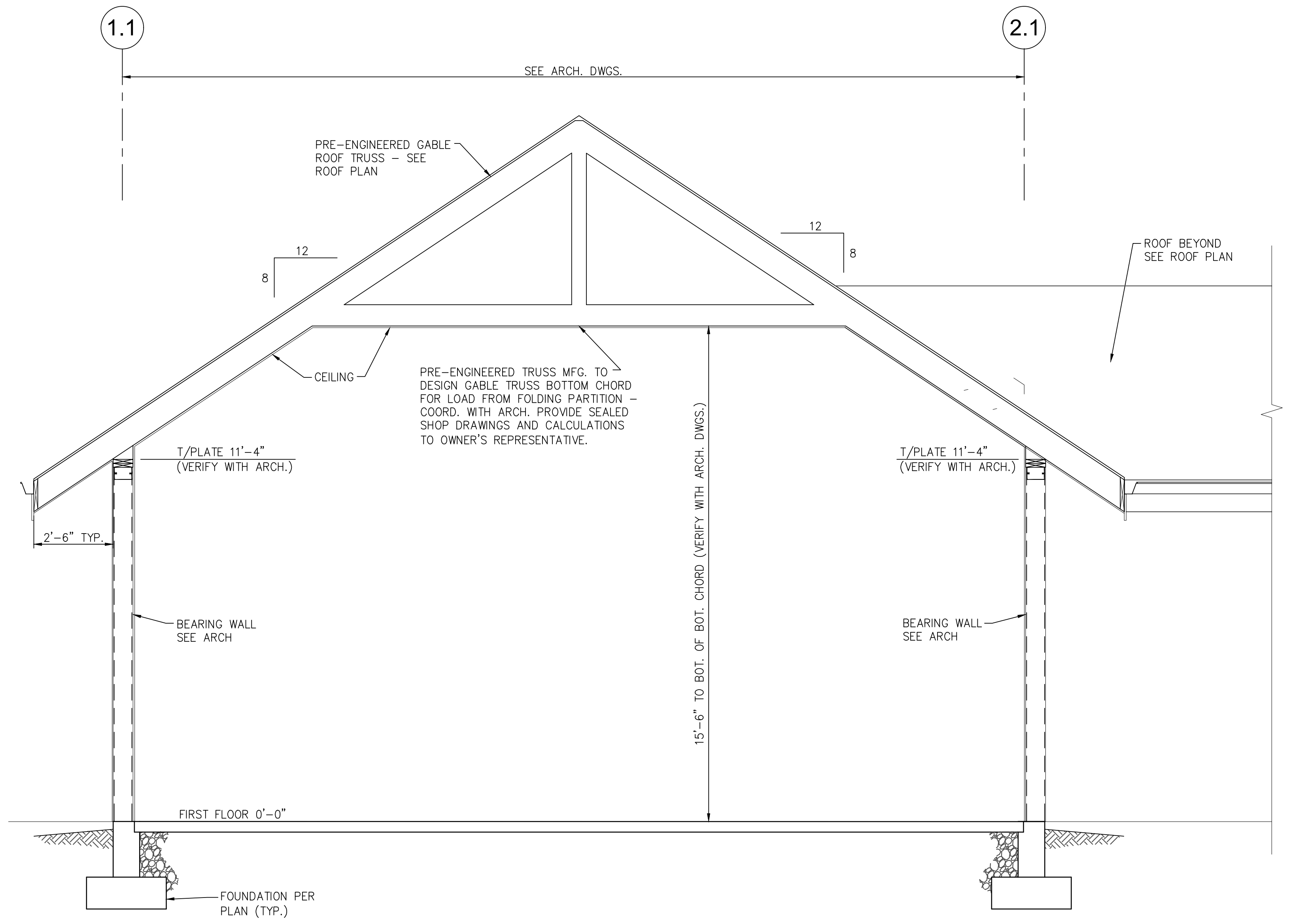
DRAWN BY: E. Fletcher
CHECKED BY: D. VonArx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

S4.2


2
SEE ARCH. DWGS.
EXIST. ROOF TRUSSES (TO REMAIN)
T/EX. PL 21'-0"
EXIST. TRUSS VERT. (USE IN PLACE)
FLASH AND CAULK SEE ARCH. DWGS.
PROVIDE 2x8 BLOCKING BTWN. NEW TRUSS AND EXIST. TRUSS TOP AND BOTTOM
ROOFING – SEE ARCH. DWGS.
PLYWOOD SHEATHING SEE PLAN
ALIGN INTERIOR FACE OF NEW TRUSS VERTICAL MEMBER WITH INTERIOR FACE OF REMAINING EXISTING TRUSS MEMBER
PRE-ENGINEERED ROOF TRUSS
12
2.5
2-2x6 CONT. PLATE
BEAM PER PLAN
TRUSS BRG. 10'-9"
T/STL. PER PLAN
W12
T/PL SEE ARCH
CEILING
WALL – SEE ARCH. DWGS.
WALL – SEE ARCH. DWGS.
SLAB ON GRADE PER PLAN
FIRST FLOOR 0'-0"
FOUNDATION PER PLAN (TYP.)

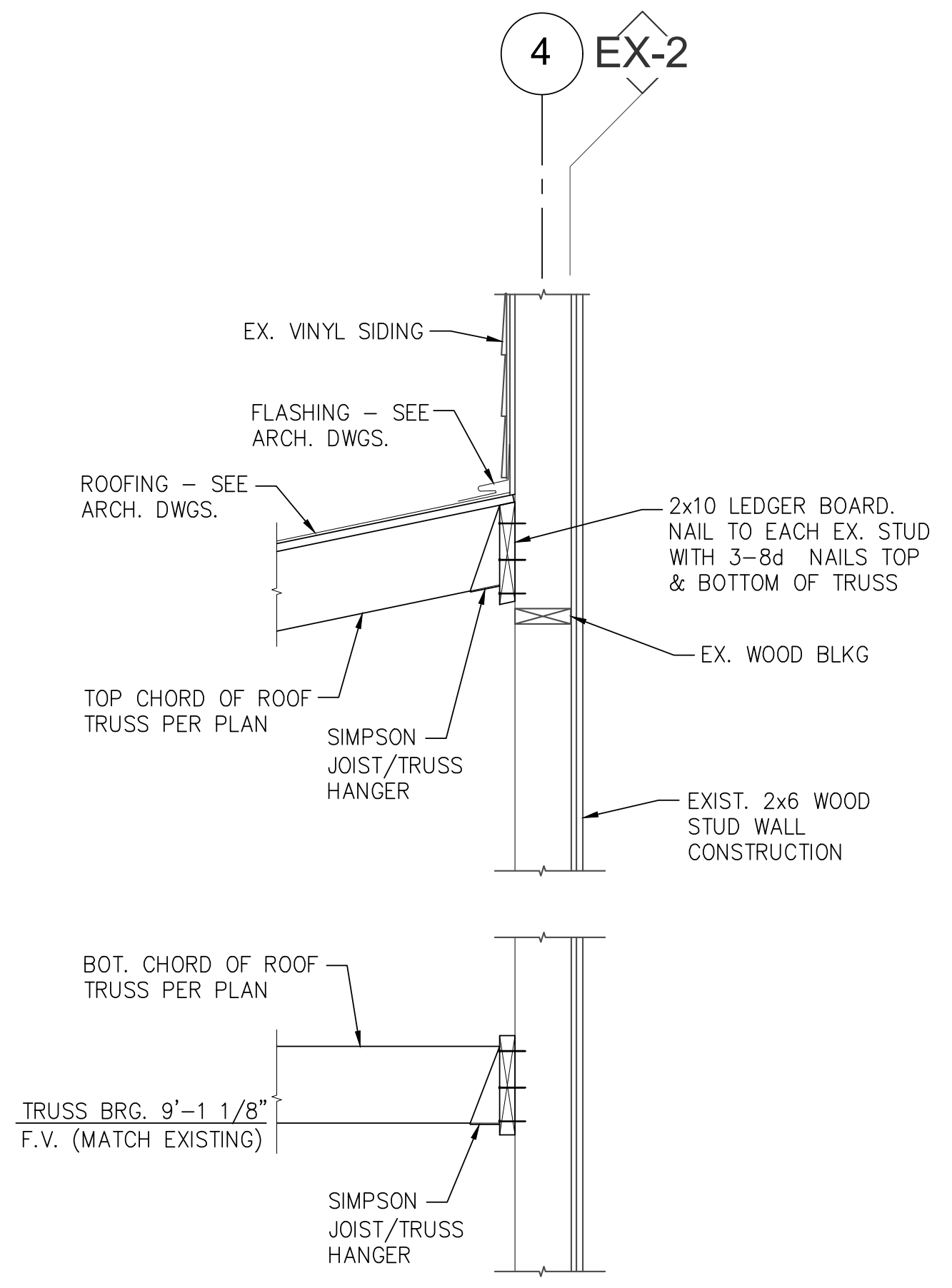
SECTION 1

3/8"=1'-0" S3.5


1.1
2.1
SEE ARCH. DWGS.
PRE-ENGINEERED GABLE ROOF TRUSS – SEE ROOF PLAN
12
8
12
8
ROOF BEYOND SEE ROOF PLAN
CEILING
PRE-ENGINEERED TRUSS MFG. TO DESIGN GABLE TRUSS BOTTOM CHORD FOR LOAD FROM FOLDING PARTITION – COORD. WITH ARCH. PROVIDE SEALED SHOP DRAWINGS AND CALCULATIONS TO OWNER'S REPRESENTATIVE.
15'-6" TO BOT. OF BOT. CHORD (VERIFY WITH ARCH. DWGS.)
T/PLATE 11'-4" (VERIFY WITH ARCH.)
T/PLATE 11'-4" (VERIFY WITH ARCH.)
2'-6" TYP.
BEARING WALL SEE ARCH
BEARING WALL SEE ARCH
FIRST FLOOR 0'-0"
FOUNDATION PER PLAN (TYP.)

SECTION 2

3/8"=1'-0" S3.5


4
EX-2
EX. VINYL SIDING
FLASHING – SEE ARCH. DWGS.
ROOFING – SEE ARCH. DWGS.
2x10 LEDGER BOARD. NAIL TO EACH EX. STUD WITH 3-8d NAILS TOP & BOTTOM OF TRUSS
EX. WOOD BLKG
TOP CHORD OF ROOF TRUSS PER PLAN
SIMPSON JOIST/TRUSS HANGER
EXIST. 2x6 WOOD STUD WALL CONSTRUCTION
BOT. CHORD OF ROOF TRUSS PER PLAN
TRUSS BRG. 9'-1 1/8" F.V. (MATCH EXISTING)
SIMPSON JOIST/TRUSS HANGER

SECTION 3

3/4"=1'-0" S3.5

REVISION

NO.	DESCRIPTION	DATE

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Jefferson County Animal Care Facility

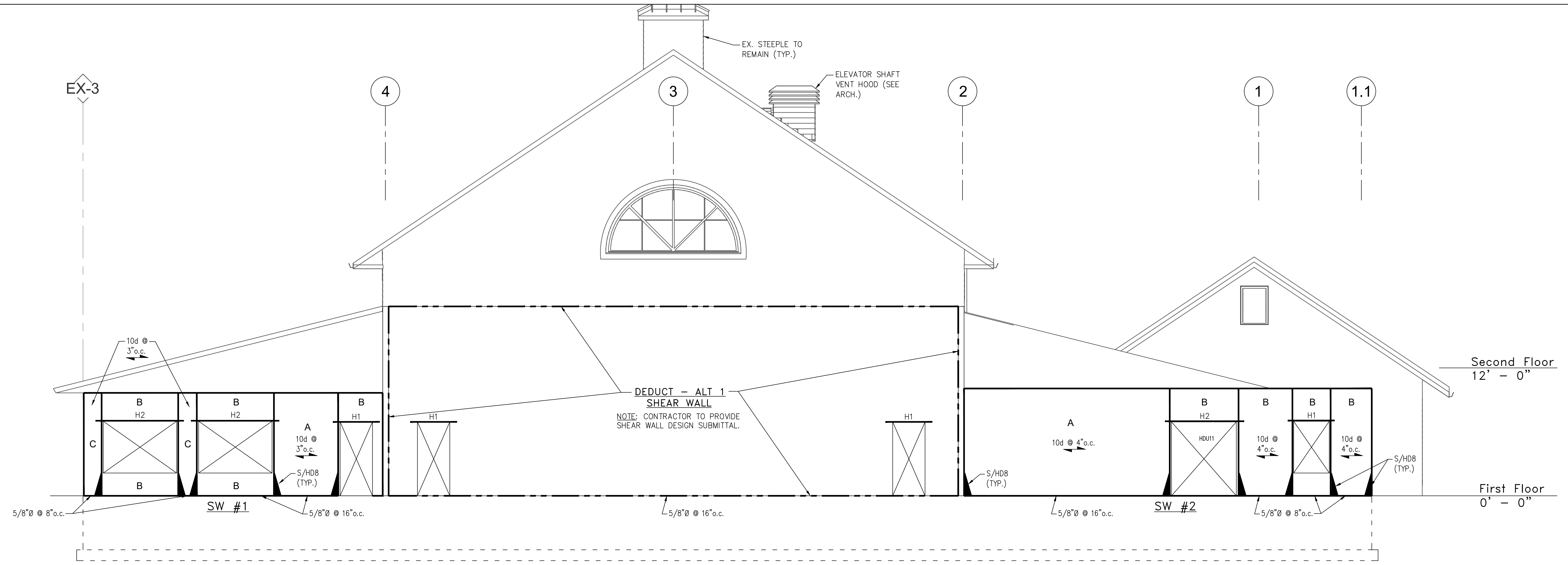
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

SECTIONS AND DETAILS

PROGRESS SET ☐ | BID SET ■ | PERMIT SET ☐ | CONSTRUCTION SET ☐

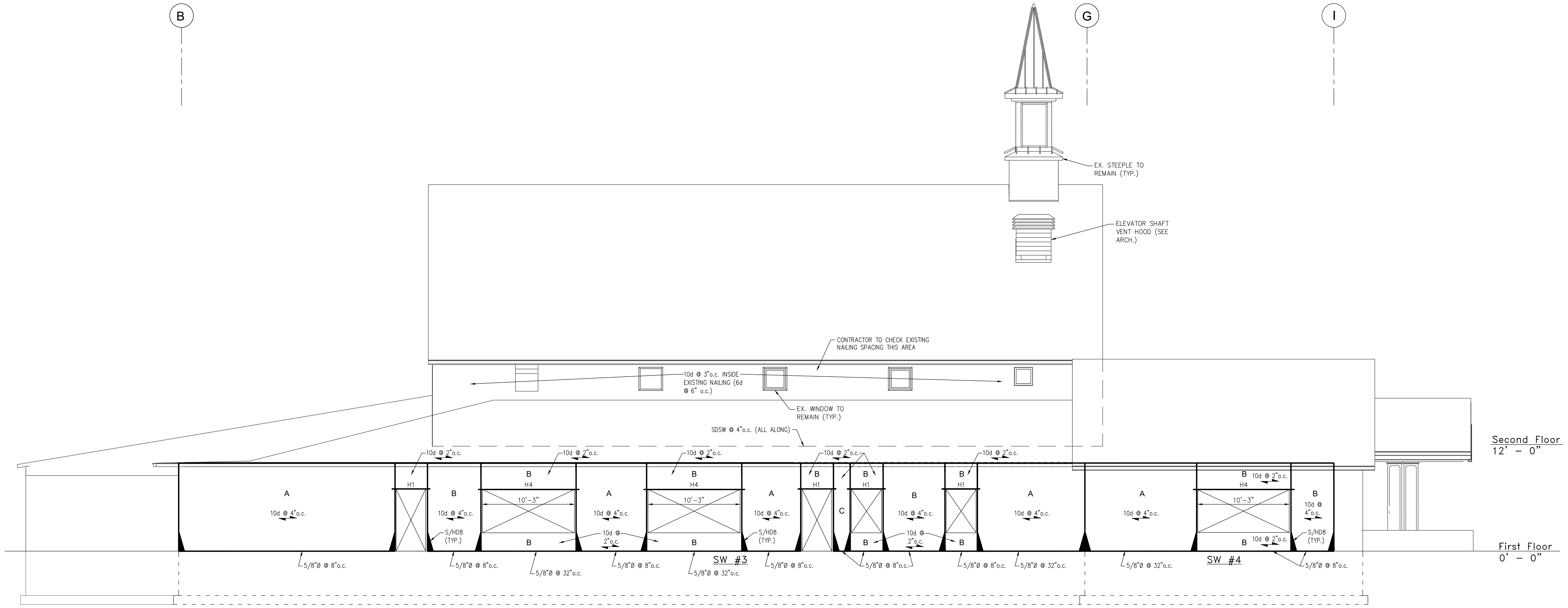
DRAWN BY: E. Fletcher
CHECKED BY: D. VonArx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

S4.3


EX. STEEPLE TO REMAIN (TYP.)
ELEVATOR SHAFT VENT HOOD (SEE ARCH.)
EX-3
4
3
2
1
1.1
10d @ 3"o.c.
B
H2
C
A
10d @ 3"o.c.
H1
S/HD8 (TYP.)
SW #1
5/8"Ø @ 8"o.c.
5/8"Ø @ 16"o.c.
DEDUCT – ALT 1 SHEAR WALL
NOTE: CONTRACTOR TO PROVIDE SHEAR WALL DESIGN SUBMITTAL.
10d @ 4"o.c.
HDU11
10d @ 4"o.c.
SW #2
5/8"Ø @ 8"o.c.
Second Floor
12' – 0"
First Floor
0' – 0"

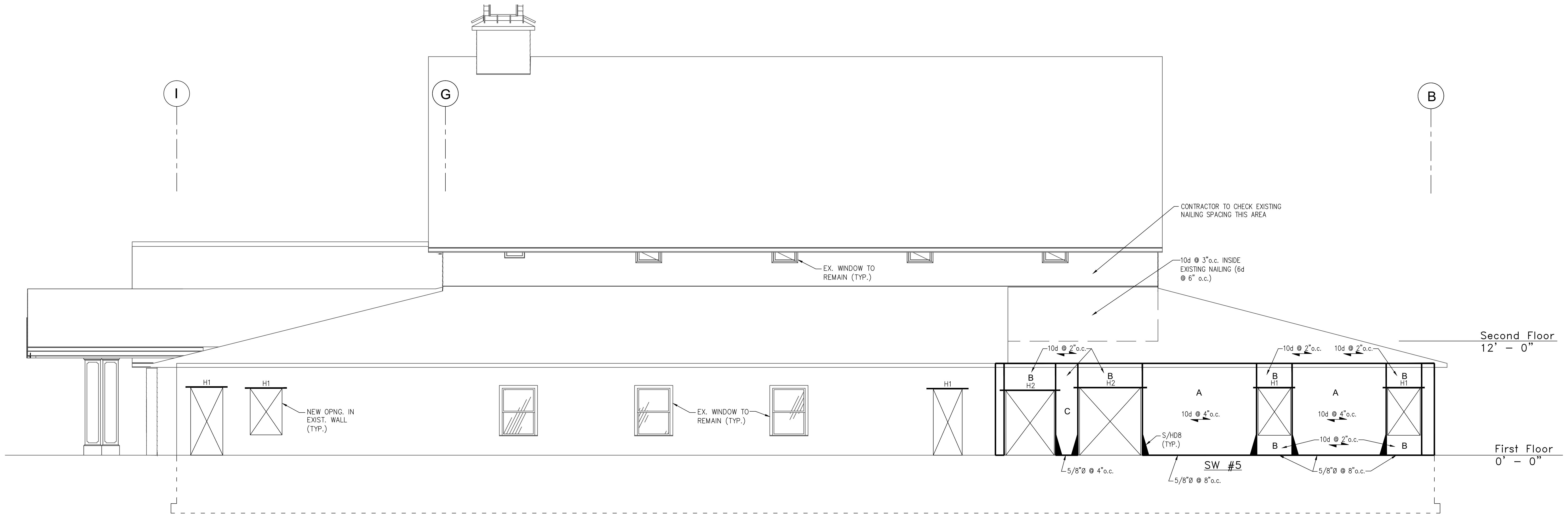
NORTH (REAR) SHEAR WALL ELEVATION
3/16"=1'-0"

NOTE: SEE SHEAR WALL SCHEDULE ON SHEET S2.2 FOR ADDITIONAL INFORMATION AND STANDARD SHEAR WALL CONSTRUCTION DETAILS.


B
G
I
EX. STEEPLE TO REMAIN (TYP.)
ELEVATOR SHAFT VENT HOOD (SEE ARCH.)
CONTRACTOR TO CHECK EXISTING NAILING SPACING THIS AREA
10d @ 3"o.c. INSIDE EXISTING NAILING (6d @ 6" o.c.)
EX. WINDOW TO REMAIN (TYP.)
SDSW @ 4"o.c. (ALL ALONG)
10d @ 2"o.c.
A
10d @ 4"o.c.
H1
B
H4
10'–3"
S/HD8 (TYP.)
10d @ 2"o.c.
C
5/8"Ø @ 8"o.c.
5/8"Ø @ 32"o.c.
SW #3
SW #4
Second Floor
12' – 0"
First Floor
0' – 0"

WEST SHEAR WALL ELEVATION
3/16"=1'-0"

NOTE: SEE SHEAR WALL SCHEDULE ON SHEET S2.2 FOR ADDITIONAL INFORMATION AND STANDARD SHEAR WALL CONSTRUCTION DETAILS.


I
G
B
CONTRACTOR TO CHECK EXISTING NAILING SPACING THIS AREA
10d @ 3"o.c. INSIDE EXISTING NAILING (6d @ 6" o.c.)
EX. WINDOW TO REMAIN (TYP.)
H1
NEW OPNG. IN EXIST. WALL (TYP.)
EX. WINDOW TO REMAIN (TYP.)
10d @ 2"o.c.
B
H2
C
A
10d @ 4"o.c.
H1
S/HD8 (TYP.)
10d @ 2"o.c.
5/8"Ø @ 4"o.c.
5/8"Ø @ 8"o.c.
SW #5
5/8"Ø @ 8"o.c.
Second Floor
12' – 0"
First Floor
0' – 0"

EAST SHEAR WALL ELEVATION
3/16"=1'-0"

NOTE: SEE SHEAR WALL SCHEDULE ON SHEET S2.2 FOR ADDITIONAL INFORMATION AND STANDARD SHEAR WALL CONSTRUCTION DETAILS.

NO.	DESCRIPTION	DATE
	REVISION	

ENGINEER SEAL:
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3/22/19

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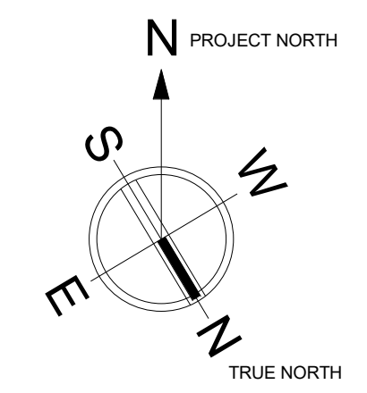
4848 STATE ROUTE 30, HOUSE SPRINGS, MO

SHEAR WALL ELEVATIONS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: E. Fletcher
CHECKED BY: D. VonArx
SCALE: As Noted
DATE: 03/22/2019
PROJECT NO: 15071

S5.0

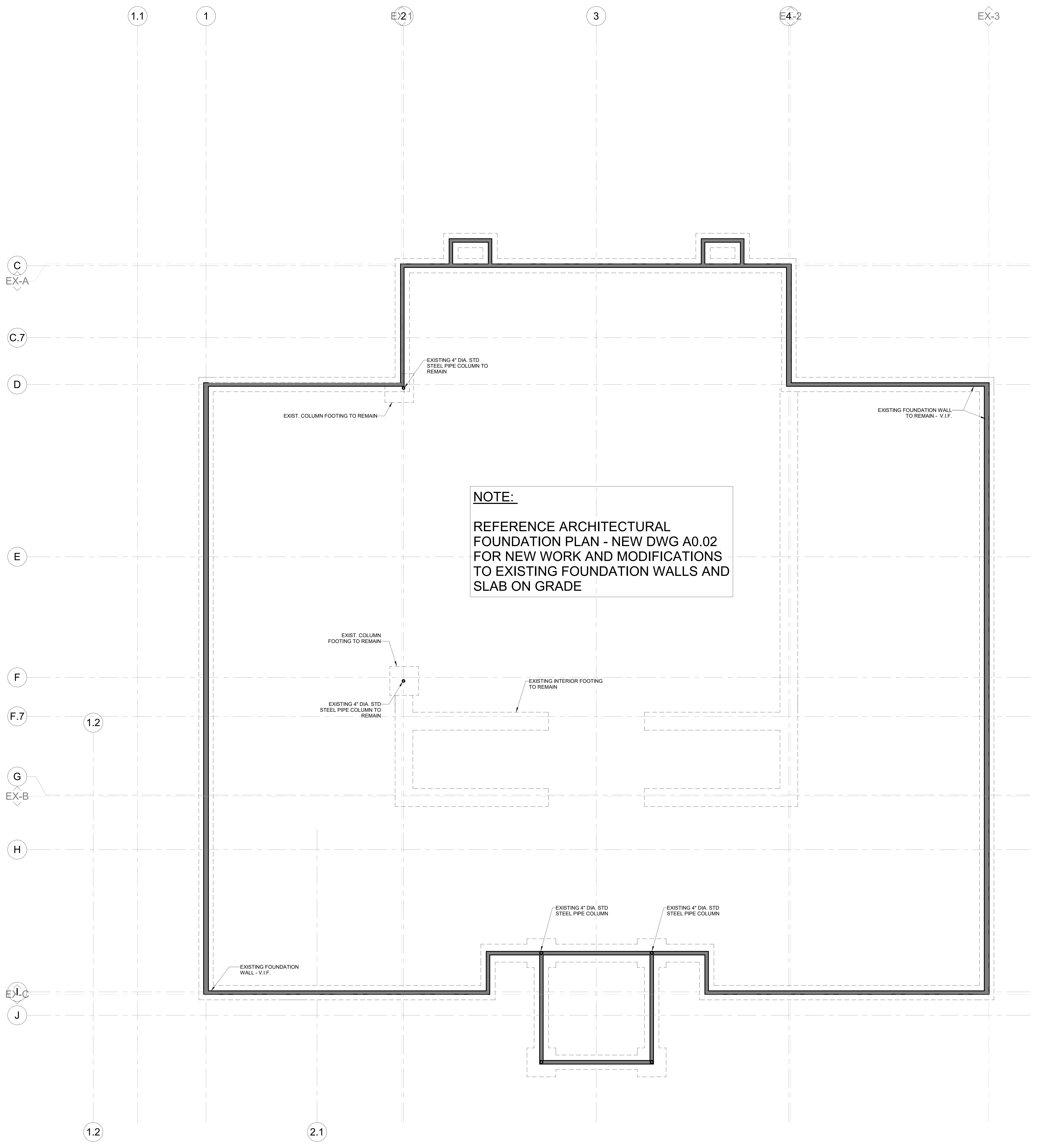

N
PROJECT NORTH
S
W
E
N
TRUE NORTH

NOTE:

1. ALL INTERIOR DIMENSIONS ARE TAKEN FROM CENTERLINE OF STUD AND/OR STRUCTURE UNLESS OTHERWISE NOTED.

2. ALL EXTERIOR DIMENSIONS ARE TAKEN FROM FACE OF FOUNDATION WALL UNLESS OTHERWISE NOTED.

3. ALL INTERIOR DOOR OPENINGS SHOULD BE LOCATED 4" (ROUGH) MIN. FROM THE JAM TO THE NEAREST ADJACENT WALL UNLESS OTHERWISE NOTED


1.1
1
2
EX-1
3
4
EX-2
EX-3
C
EX-A
C.7
D
E
F
F.7
1.2
G
EX-B
H
I
EX-C
J
1.2
2.1
EXISTING 4" DIA. STD STEEL PIPE COLUMN TO REMAIN
EXIST. COLUMN FOOTING TO REMAIN
EXISTING FOUNDATION WALL TO REMAIN - V.I.F.
EXIST. COLUMN FOOTING TO REMAIN
EXISTING INTERIOR FOOTING TO REMAIN
EXISTING 4" DIA. STD STEEL PIPE COLUMN TO REMAIN
EXISTING 4" DIA. STD STEEL PIPE COLUMN
EXISTING 4" DIA. STD STEEL PIPE COLUMN
EXISTING FOUNDATION WALL - V.I.F.

NOTE:

REFERENCE ARCHITECTURAL FOUNDATION PLAN - NEW DWG A0.02 FOR NEW WORK AND MODIFICATIONS TO EXISTING FOUNDATION WALLS AND SLAB ON GRADE

① FOUNDATION PLAN - EXIST + DEMO
3/16" = 1'-0"

NO..	REVISION DESCRIPTION	DATE

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Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO
County Project # PW19B035BLD

ARCHITECTURAL FOUNDATION PLAN - EXISTING

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: Author
CHECKED BY: Checker
SCALE: 3/16" = 1'-0"
DATE: 15 MAR 19
PROJECT NO: 1723

AEX0.01

NOTE:

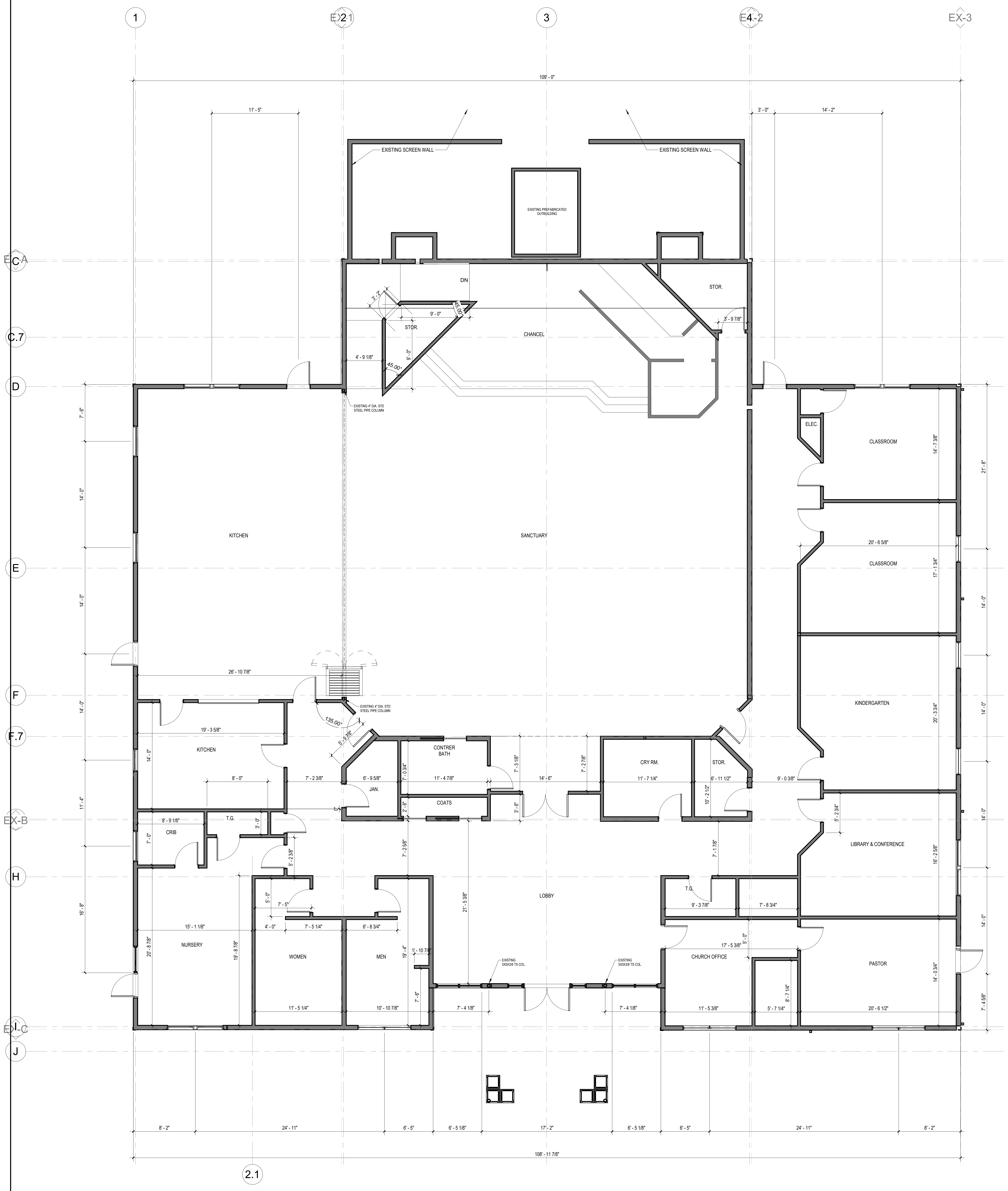
1. ALL INTERIOR DIMENSIONS ARE TAKEN FROM CENTERLINE OF STUD AND/OR STRUCTURE UNLESS OTHERWISE NOTED.

2. ALL EXTERIOR DIMENSIONS ARE TAKEN FROM FACE OF FOUNDATION WALL UNLESS OTHERWISE NOTED.

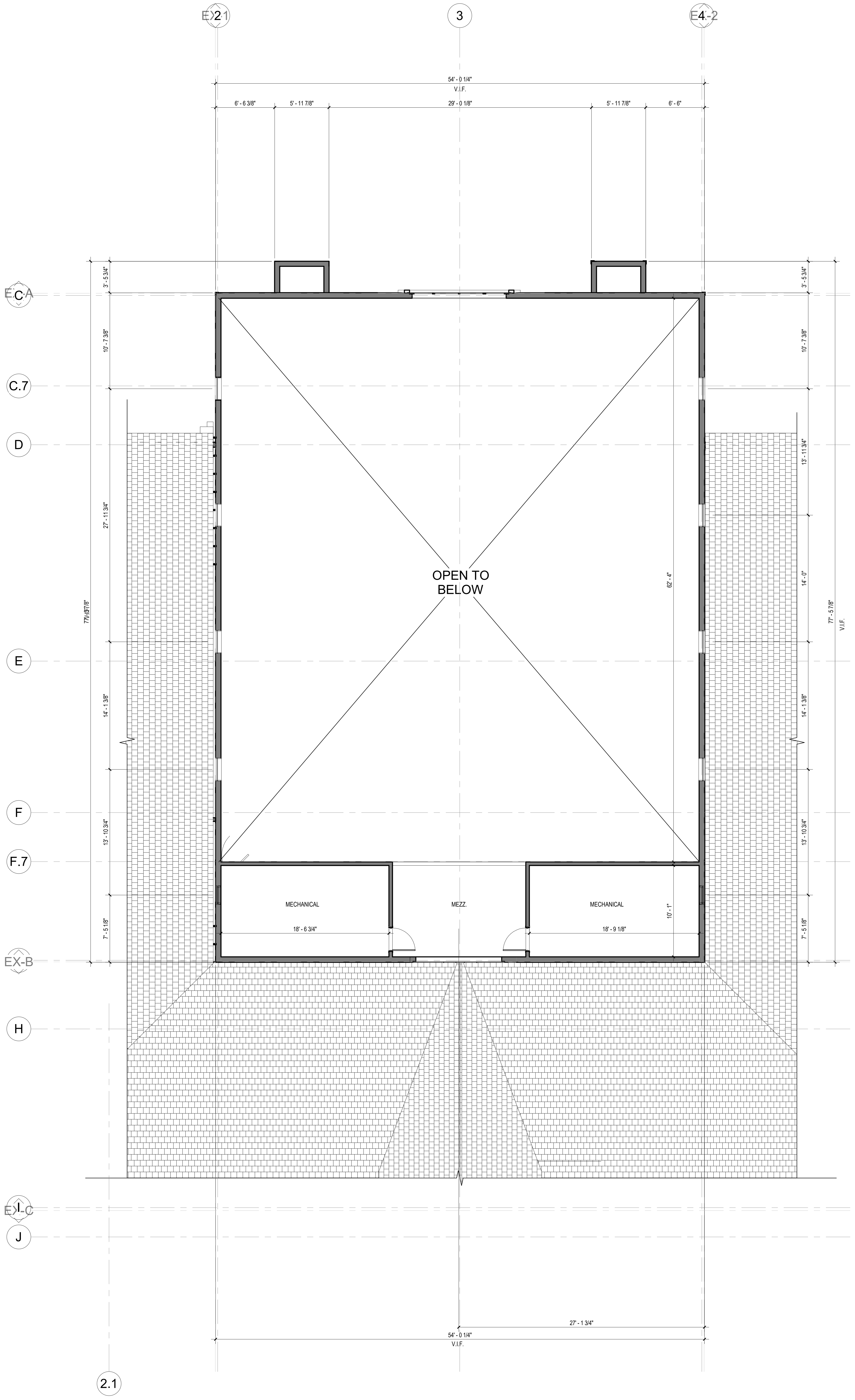
3. ALL INTERIOR DOOR OPENINGS SHOULD BE LOCATED 4" (ROUGH) MIN. FROM THE JAM TO THE NEAREST ADJACENT WALL UNLESS OTHERWISE NOTED

N PROJECT NORTH

TRUE NORTH


1
EX-1
3
E4-2
EX-3
EX-A
C.7
D
E
F
F.7
EX-B
H
EX-C
J
2.1
109' - 0"
11' - 5"
3' - 0"
14' - 2"
EXISTING SCREEN WALL
EXISTING SCREEN WALL
EXISTING PREFABRICATED OUTBUILDING
DN
STOR.
STOR.
CHANCEL
3' - 2"
9' - 0"
45.00°
4' - 9 1/8"
3' - 9 7/8"
EXISTING 4" DIA. STD STEEL PIPE COLUMN
KITCHEN
SANCTUARY
ELEC.
CLASSROOM
CLASSROOM
KINDERGARTEN
26' - 10 7/8"
135.00°
5' - 9 7/8"
19' - 3 5/8"
KITCHEN
8' - 0"
7' - 2 3/8"
JAN.
CONTRER BATH
COATS
11' - 4 7/8"
14' - 6"
CRY RM.
11' - 7 1/4"
STOR.
6' - 11 1/2"
9' - 0 3/8"
8' - 9 1/8"
T.G.
CRIB
NURSERY
15' - 1 1/8"
WOMEN
MEN
7' - 5 1/4"
6' - 8 3/4"
11' - 5 1/4"
10' - 10 7/8"
LOBBY
21' - 5 3/8"
EXISTING 5X5X3/8 TS COL.
T.G.
9' - 3 7/8"
7' - 8 3/4"
LIBRARY & CONFERENCE
CHURCH OFFICE
17' - 5 3/8"
11' - 5 3/8"
5' - 7 1/4"
PASTOR
20' - 6 1/2"
20' - 6 5/8"
8' - 2"
24' - 11"
6' - 5"
6' - 5 1/8"
17' - 2"
6' - 5 1/8"
6' - 5"
24' - 11"
8' - 2"
108' - 11 7/8"

① FIRST FLOOR PLAN - EXISTING
3/16" = 1'-0"


EX-1
3
E4-2
EX-A
C.7
D
E
F
F.7
EX-B
H
EX-C
J
2.1
54' - 0 1/4"
V.I.F.
6' - 6 3/8"
5' - 11 7/8"
29' - 0 1/8"
5' - 11 7/8"
6' - 6"
OPEN TO BELOW
62' - 4"
77' - 5 7/8"
MECHANICAL
MEZZ.
MECHANICAL
18' - 6 3/4"
18' - 9 1/8"
27' - 1 3/4"
54' - 0 1/4"
V.I.F.

② SECOND FLOOR PLAN - EXISTING
3/16" = 1'-0"

NOTE:
G.C. TO VERIFY ALL DIMENSIONS IN FIELD

REVISION		
NO..	DESCRIPTION	DATE

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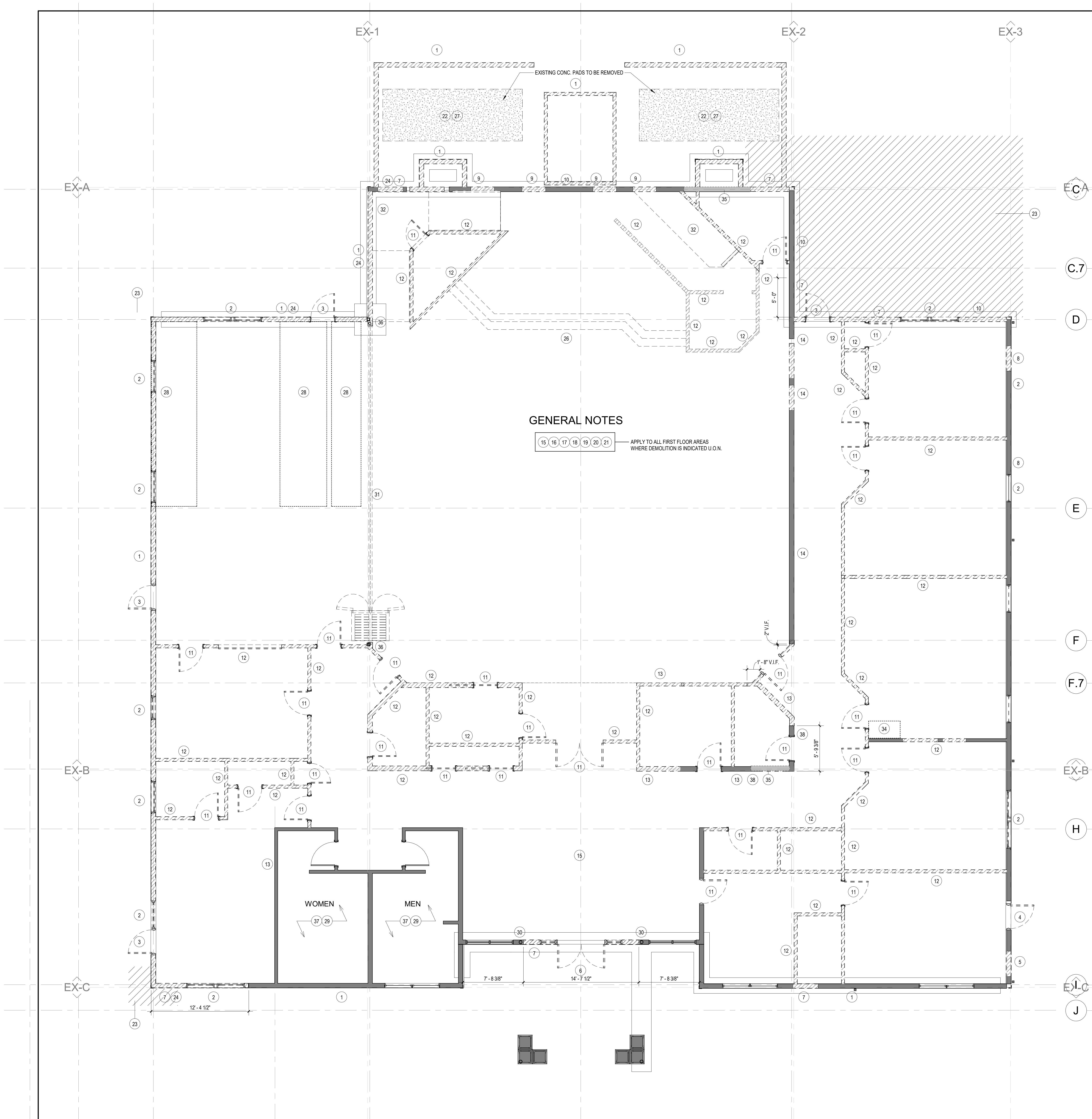
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO
County Project # PW19B035BLD

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	
DATE:	15 MAR 19
PROJECT NO:	1723

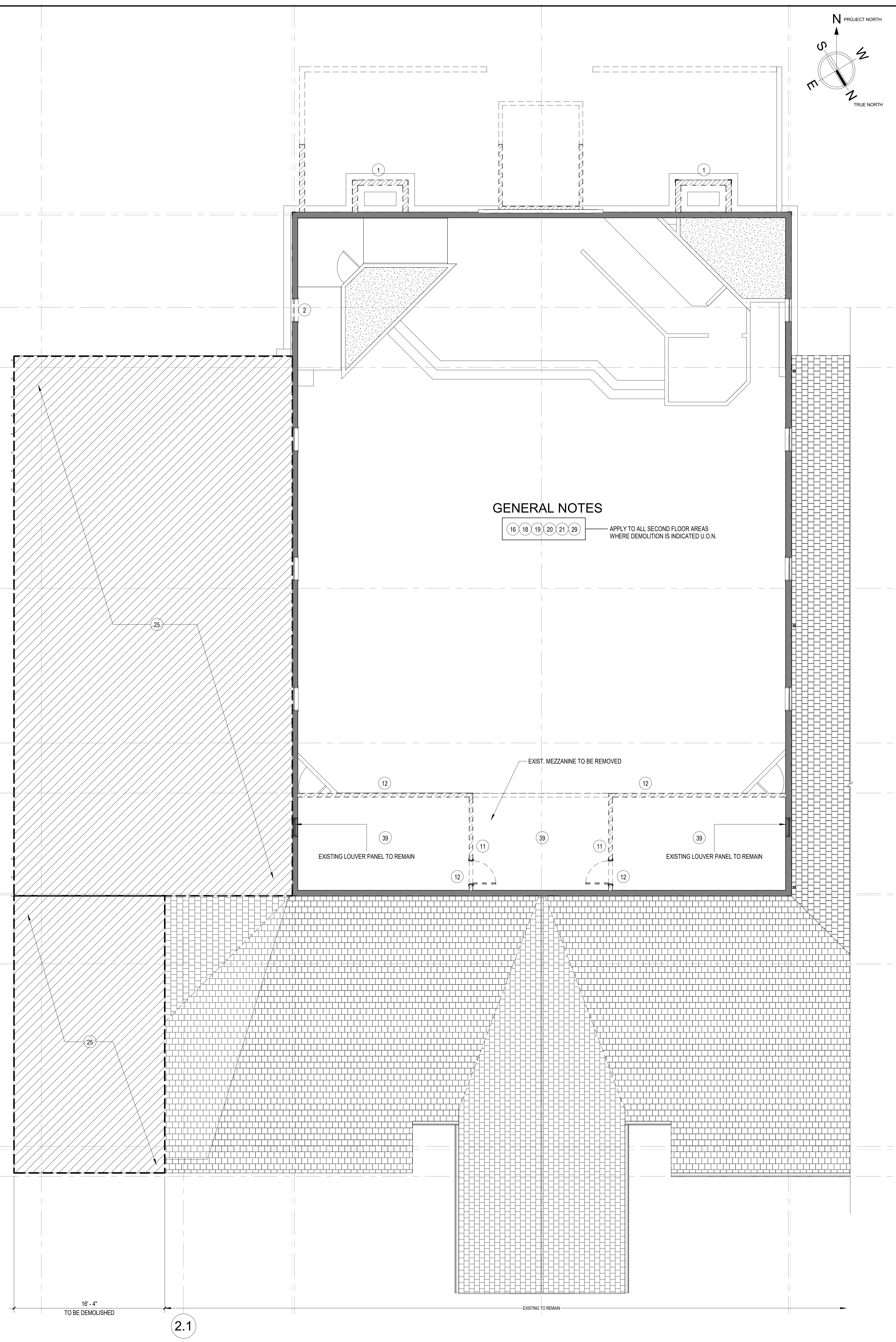
FLOOR PLANS - EXISTING

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

AEX0.02



① FIRST FLOOR - DEMOLITION
3/16" = 1'-0"


N
S
W
E
PROJECT NORTH
TRUE NORTH
GENERAL NOTES
16 18 19 20 21 29
APPLY TO ALL SECOND FLOOR AREAS WHERE DEMOLITION IS INDICATED U.O.N.
EXIST. MEZZANINE TO BE REMOVED
EXISTING LOUVER PANEL TO REMAIN
EXISTING LOUVER PANEL TO REMAIN
16'-4"
TO BE DEMOLISHED
EXISTING TO REMAIN
2.1

② SECOND FLOOR - DEMOLITION
3/16" = 1'-0"

DEMOLITION NOTES:

① REMOVE EXTERIOR STUD WALL, VINYL SIDING AND ALL ASSOCIATED FLASHINGS, TRIMS AND ATTACHMENTS
② REMOVE EXTERIOR WINDOW AND ALL ASSOCIATED FLASHINGS, TRIMS AND ATTACHMENTS
③ REMOVE EXTERIOR DOOR AND ALL ASSOCIATED FLASHINGS, TRIMS, AND ATTACHMENTS
④ REMOVE EXTERIOR DOOR AND ALL ASSOCIATED FLASHINGS, TRIMS AND ATTACHMENTS IN PREPERATION OF INSTALLATION OF NEW WINDOW
⑤ REMOVE EXTERIOR WINDOW AND ALL ASSOCIATED FLASHINGS, TRIMS AND ATTACHMENTS IN PREPERATION OF INSTALLATION OF NEW DOOR
⑥ REMOVE EXTERIOR STOREFRONT AND ALL ASSOCIATED FLASHINGS, TRIMS AND ATTACHMENTS IN PREPERATION OF INSTALLATION OF NEW STOREFRONT. REFER TO DRAWINGS FOR NEW STOREFRONT
⑦ REMOVE PORTION OF EXTERIOR WALL, VINYL SIDING AND ALL ASSOCIATED FLASHINGS, TRIMS, AND ATTACHMENTS
⑧ REMOVE PORTION OF EXTERIOR WALL, VINYL SIDING AND ALL ASSOCIATED FLASHINGS, TRIMS, AND ATTACHMENTS FOR INSTALLATION OF NEW WINDOW. REFER TO DRAWINGS FOR NEW WINDOW LOCATIONS
⑨ REMOVE PORTION OF EXTERIOR WALL, VINYL SIDING AND ALL ASSOCIATED FLASHINGS, TRIMS, AND ATTACHMENTS FOR INSTALLATION OF NEW DOOR/OPENING. REFER TO DRAWINGS FOR DOOR & OPENING LOCATIONS
⑩ REMOVE VINYL SIDING AND ALL ASSOCIATED FLASHINGS, TRIMS AND ATTACHMENTS DOWN TO THE STUDS FOR PREPERATION OF NEW INTERIOR WALL
⑪ REMOVE INTERIOR DOOR, FRAME AND ALL ASSOCIATED HARDWARE
⑫ REMOVE INTERIOR PARTITION
⑬ REMOVE PORTION OF INTERIOR PARTITION IN PREPERATION OF NEW WORK
⑭ REMOVE PORTION OF INTERIOR PARTITON; COORDINATE WITH SIZES AND LOCATIONS OF NEW DOORS/OPENINGS AS INDICATED ON DRAWINGS
⑮ REMOVE FLOORING TO CONCRETE SUBFLOOR IN PREPERATION OF INSTALLATION OF NEW FLOORING. GC TO COORDINATE WITH FINISHES
⑯ REMOVE ALL EXISTING MILLWORK, CARPENTRY AND ALL ASSOCIATED HARDWARE AND ATTACHMENTS
⑰ REMOVE EXISTING CEILING AND ALL ASSOCIATED, HARDWARE, FIXTURES AND ATTACHEMENTS
⑱ REMOVE ALL ELECTRICAL AND LIGHTING FIXTURES AND ALL ASSOCIATED WIRES, CONDUITS, FITTINGS, BOXES AND ATTACHEMENTS (GC TO COORD. WITH ELECTRICAL DWGS). REFER TO THE DEMOLITION RCP ON A1.06 FOR FIXTURES TO BE RETAINED
⑲ REMOVE ALL PLUMBING FIXTURES AND ALL ASSOCIATED PIPES, HANGERS, FITTINGS, AND ATTACHEMENTS (GC TO COOR. WITH PLUMBING DWGS)
⑳ REMOVE ALL MECHANICAL EQUIPMENT AND ALL ASSOCIATED DUCTS, PIPES, HANGERS, FITTINGS, AND ATTACHEMENTS (GC TO COOR. WITH MECHANICAL DWGS)
㉑ REMOVE EQUIPMENT, FURNISHINGS AND ALL ASSOCIATED ATTACHMENTS
㉒ REMOVE CONCRETE PAD AND FILL AND ALL ASSOCIATED FITTINGS AND ATTACHMENTS
㉓ REMOVE SOIL IN PREPERATION FOR NEW BUILDING FOUNDATIONS, SITE WORK AND UTILITIES (GC TO COOR WITH CIVIL AND STRUCTURAL DRAWINGS)
㉔ REMOVE ALL GUTTERS, DOWNSPOUTS AND ALL ASSOCIATED FLASHINGS AND ATTACHMENTS
㉕ REMOVE EXISTING ASPHALT SHINGLE ROOFING TO ACCOMODATE NEW ROOF
㉖ REMOVE INTERIOR STAIRS AND ELEVATED PLATFORM IN MAIN ASSEMBLY HALL
㉗ RELOCATE EQUIPMENT AND ALL ASSOCIATED ATTACHMENTS
㉘ SAW-CUT AND REMOVE PORTION OF CONCRETE SLAB AND TRENCH AS REQUIRED FOR INSTALLATION OF PLUMBING (GC TO COOR. WITH PLUMBING DWGS)
㉙ EXISTING CEILING TO REMAIN. SEE RCP FOR EXISTING FIXTURE LOCATIONS
㉚ EXISTING COLUMN TO REMAIN. SEE STRUCTURAL DRAWINGS
㉛ EXISTING MOVABLE PARTITION TO BE REMOVED AND RELOCATED. REFER TO DRAWING FOR NEW LOCATION
㉜ EXISTING RAMP TO BE REMOVED

㉞ SAW CUT SLAB TO PREPARE FOR NEW RECESSED FLOOR SCALE
㉟ REMOVE PORTION OF EXISTING INTERIOR PARTITON DOWN TO THE STUDS IN PREPERATION FOR NEW RATED PARTITION
㊱ EXISTING STRUCTURAL COLUMN TO BE REMOVED. COORD. W/ STRUCTURAL ENGINEER FOR TEMPORARY SUPPORT OF WALL DURING CONSTRUCTION
㊲ RETAIN ALL FIXTURES AND FINISHES; NOT PART OF BASIC SCOPE; SEE SPECIFICATION FOR ALTERNATE
㊳ PROVIDE ALTERNATE COST FOR REMOVAL OF EXISTING G.W.B. TO EXPOSE STUDS
㊴ REMOVE EXISTING FLOOR STRUCTURES AND FRAMING

GENERAL NOTE:

REFERENCE KEY NOTES FOR SPECIFIC DETAIL AND SCOPE OF WORK

NO..	REVISION DESCRIPTION	DATE

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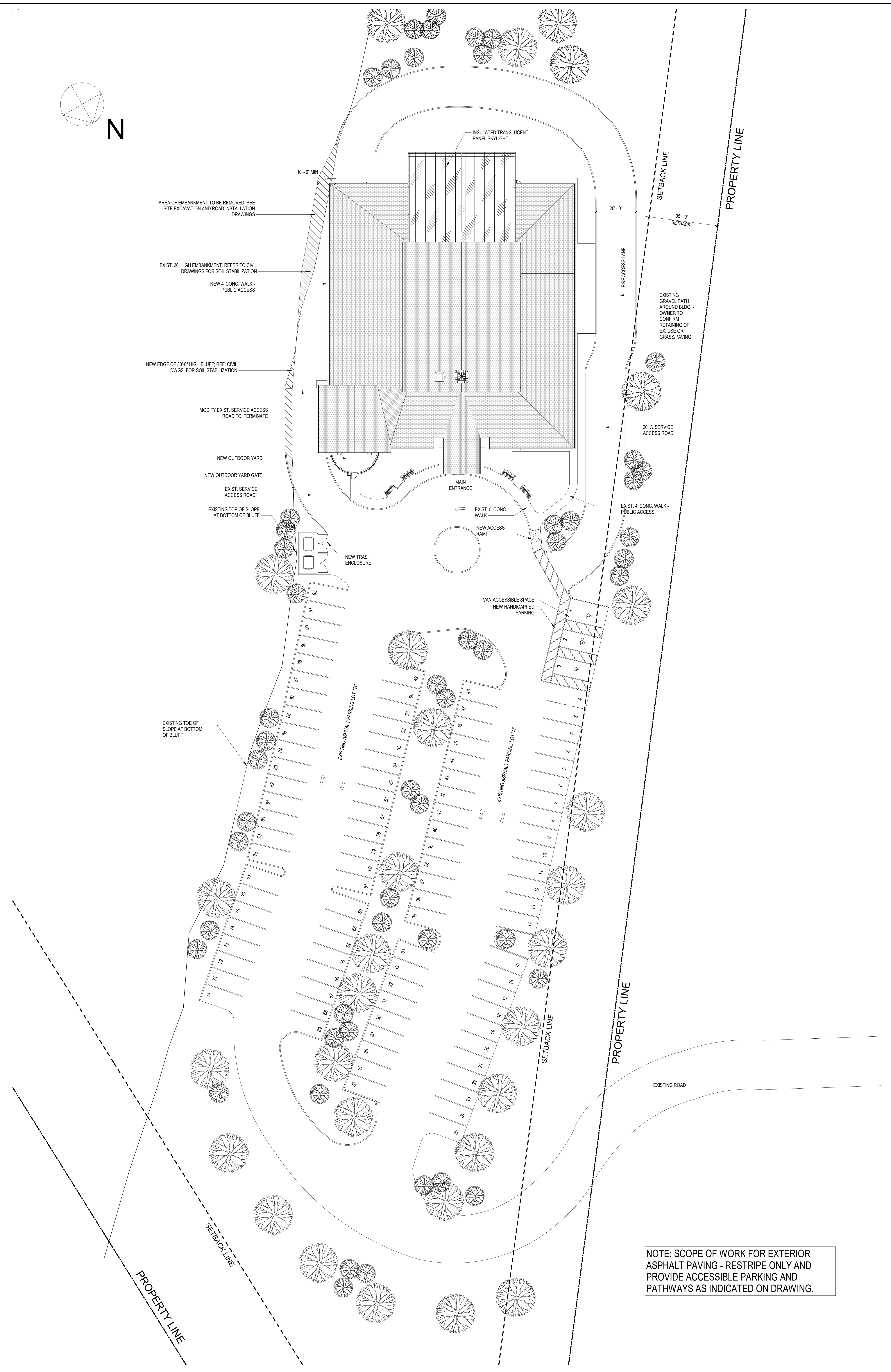
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO
County Project # PW19B035BLD

DRAWN BY: Author
CHECKED BY: Checker
SCALE: 3/16" = 1'-0"
DATE: 15 MAR 19
PROJECT NO: 1723

FLOOR PLANS - DEMOLITION

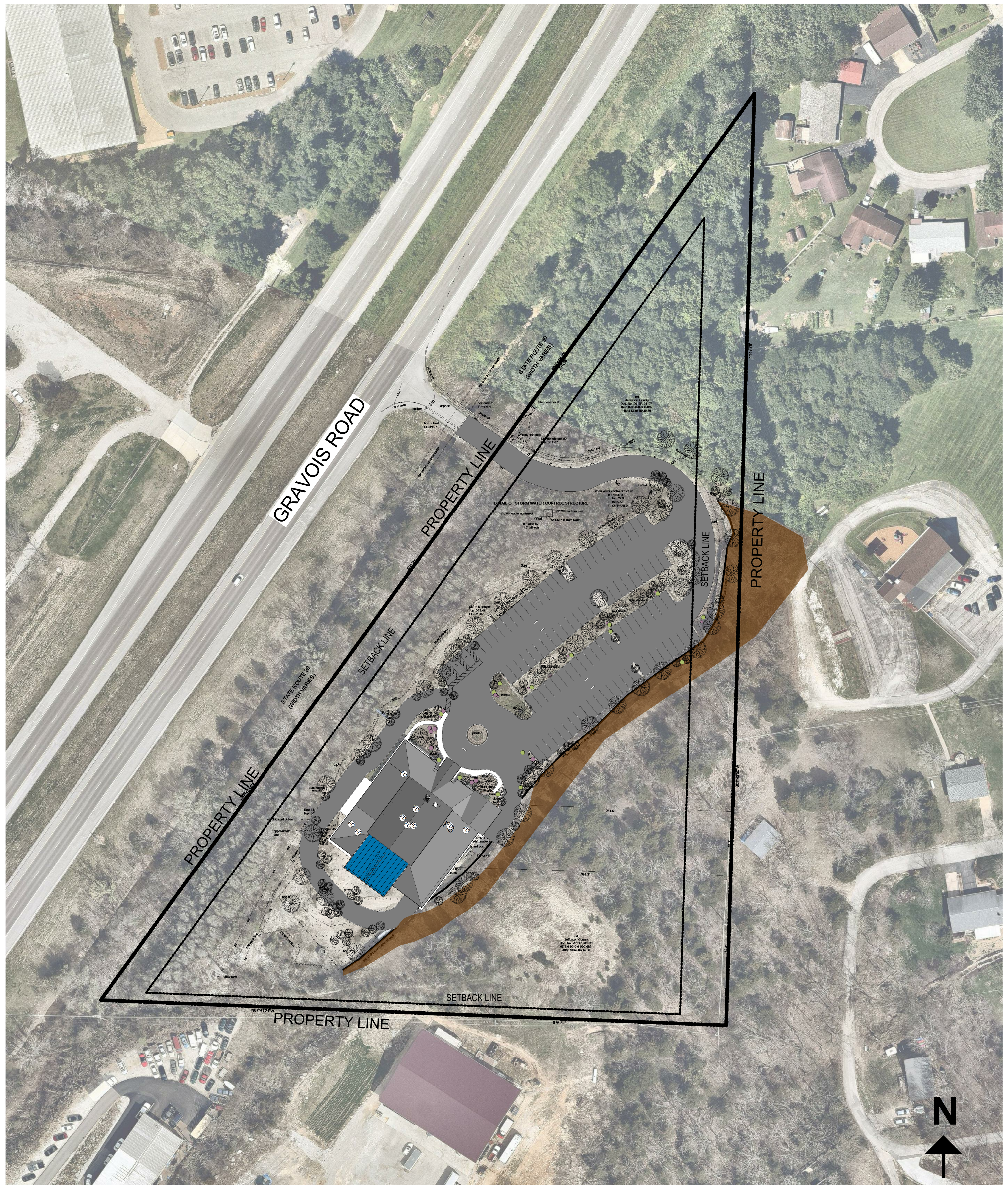
PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

AD1.00


N
INSULATED TRANSLUCENT PANEL SKYLIGHT
10' - 0" MIN
AREA OF EMBANKMENT TO BE REMOVED. SEE SITE EXCAVATION AND ROAD INSTALLATION DRAWINGS
EXIST. 30' HIGH EMBANKMENT. REFER TO CIVIL DRAWINGS FOR SOIL STABILIZATION
NEW 4' CONC. WALK - PUBLIC ACCESS
NEW EDGE OF 30'-0" HIGH BLUFF; REF. CIVIL DWGS. FOR SOIL STABILIZATION
MODIFY EXIST. SERVICE ACCESS ROAD TO TERMINATE
NEW OUTDOOR YARD
NEW OUTDOOR YARD GATE
EXIST. SERVICE ACCESS ROAD
EXISTING TOP OF SLOPE AT BOTTOM OF BLUFF
NEW TRASH ENCLOSURE
20' - 0"
SETBACK LINE
35' - 0" SETBACK
PROPERTY LINE
FIRE ACCESS LANE
EXISTING GRAVEL PATH AROUND BLDG. - OWNER TO CONFIRM RETAINING OF EX. USE OR GRASS/PAVING
20' W SERVICE ACCESS ROAD
MAIN ENTRANCE
EXIST. 5' CONC. WALK
EXIST. 4' CONC. WALK - PUBLIC ACCESS
NEW ACCESS RAMP
VAN ACCESSIBLE SPACE
NEW HANDICAPPED PARKING
EXISTING TOE OF SLOPE AT BOTTOM OF BLUFF
EXISTING ASPHALT PARKING LOT "B"
EXISTING ASPHALT PARKING LOT "A"
EXISTING ROAD
SETBACK LINE
PROPERTY LINE

NOTE: SCOPE OF WORK FOR EXTERIOR ASPHALT PAVING - RESTRIPE ONLY AND PROVIDE ACCESSIBLE PARKING AND PATHWAYS AS INDICATED ON DRAWING.

① SITE PLAN
1" = 20'-0"


GRAVOIS ROAD
PROPERTY LINE
SETBACK LINE
STATE ROUTE 30 (WIDTH VARIES)
DETAIL OF STORM WATER CONTROL STRUCTURE
N

② LOCUS PLAN
1" = 60'-0"

NO.	DESCRIPTION	DATE
	REVISION	

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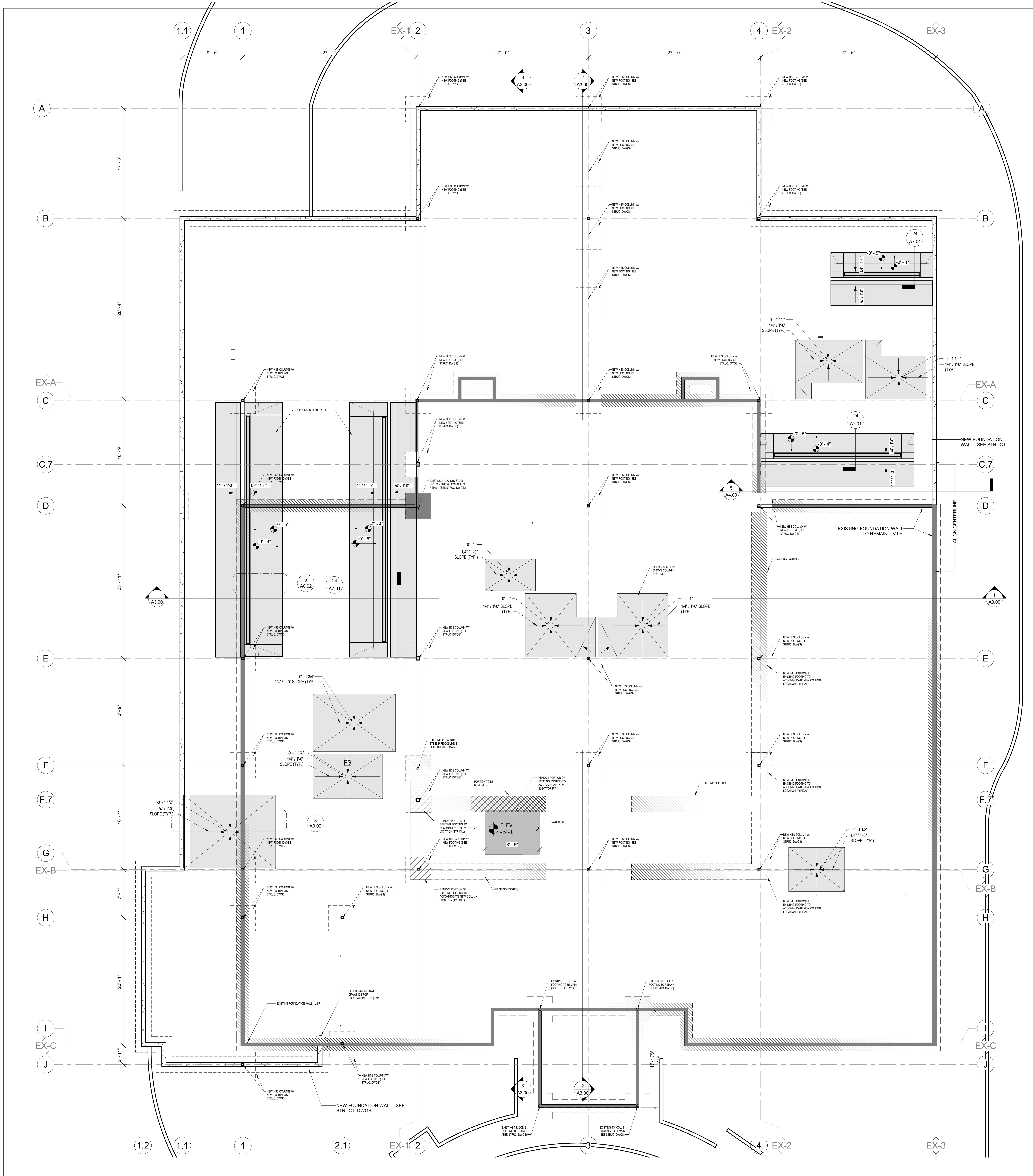
Jefferson County Animal Care Facility
4848 STATE ROUTE 30, HOUSE SPRINGS, MO
County Project # PW19B035BLD

ARCHITECTURAL SITE PLAN - NEW

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY:	Author
CHECKED BY:	Checker
SCALE:	As indicated
DATE:	15 MAR 19
PROJECT NO:	1723

A0.01


1.1
1
EX-1
2
3
4
EX-2
EX-3
9' - 6"
27' - 2"
27' - 0"
27' - 0"
27' - 6"
A
B
EX-A
C
C.7
D
E
F
F.7
G
EX-B
H
I
EX-C
J
1.2
2.1
17' - 3"
28' - 4"
16' - 9"
23' - 11"
16' - 9"
16' - 4"
7' - 7"
20' - 1"
2' - 11"
3 A3.00
2 A3.00
1 A3.00
5 A4.00
24 A7.01
2 A0.02
3 A0.02
NEW HSS COLUMN W/ NEW FOOTING (SEE STRUC. DWGS)
DEPRESSED SLAB (TYP.)
EXISTING 4" DIA. STD STEEL PIPE COLUMN & FOOTING TO REMAIN (SEE STRUC. DWGS)
NEW FOUNDATION WALL - SEE STRUCT.
EXISTING FOUNDATION WALL TO REMAIN - V.I.F.
ALIGN CENTERLINE
EXISTING FOOTING
REMOVE PORTION OF EXISTING FOOTING TO ACCOMMODATE NEW COLUMN LOCATION (TYPICAL)
DEPRESSED SLAB (ABOVE COLUMN FOOTING
PORTION TO BE REMOVED
REMOVE PORTION OF EXISTING FOOTING TO ACCOMMODATE NEW ELEVATOR PIT
ELEVATOR PIT
ELEV: - 5' - 0"
8' - 6"
FS
-0' - 1 1/2" 1/4" / 1'-0" SLOPE (TYP.)
-0' - 1" 1/4" / 1'-0" SLOPE (TYP.)
-0' - 1 3/4" 1/4" / 1'-0" SLOPE (TYP.)
-0' - 1 1/4" 1/4" / 1'-0" SLOPE (TYP.)
-0' - 1 1/8" 1/4" / 1'-0" SLOPE (TYP.)
-0' - 5"
-0' - 4"
1/4" / 1'-0"
1/2" / 1'-0"
EXISTING FOUNDATION WALL - V.I.F.
REFERENCE STRUCT. DRAWINGS FOR FOUNDATION TIE-IN (TYP.)
EXISTING TS. COL & FOOTING TO REMAIN (SEE STRUC. DWGS)
NEW FOUNDATION WALL - SEE STRUCT. DWGS.
15' - 1 7/8"

① FOUNDATION PLAN - NEW
3/16" = 1'-0"

FOUNDATION PLAN - LEGEND & NOTES

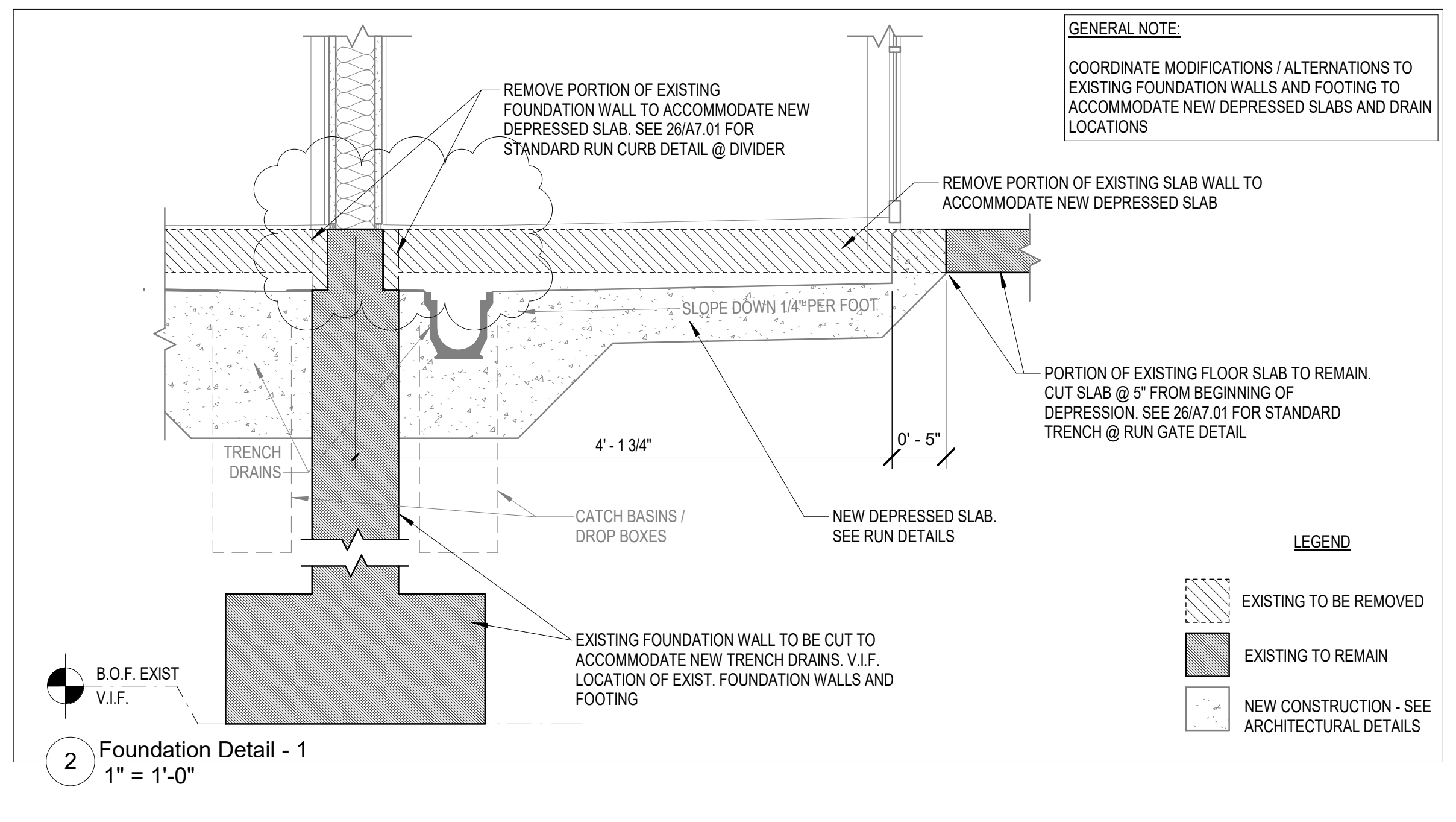
▩	EXIST. FOUNDATION WALL TO REMAIN
⬚	NEW FOUNDATION WALL
░	DEPRESSED SLAB ABOVE
⬚	CONC. FOOTING - NEW
▧	CONC. FOOTING - EXIST. TO REMAIN
▦	CONC. FOOTING - EXIST. TO BE REMOVED

NOTE:

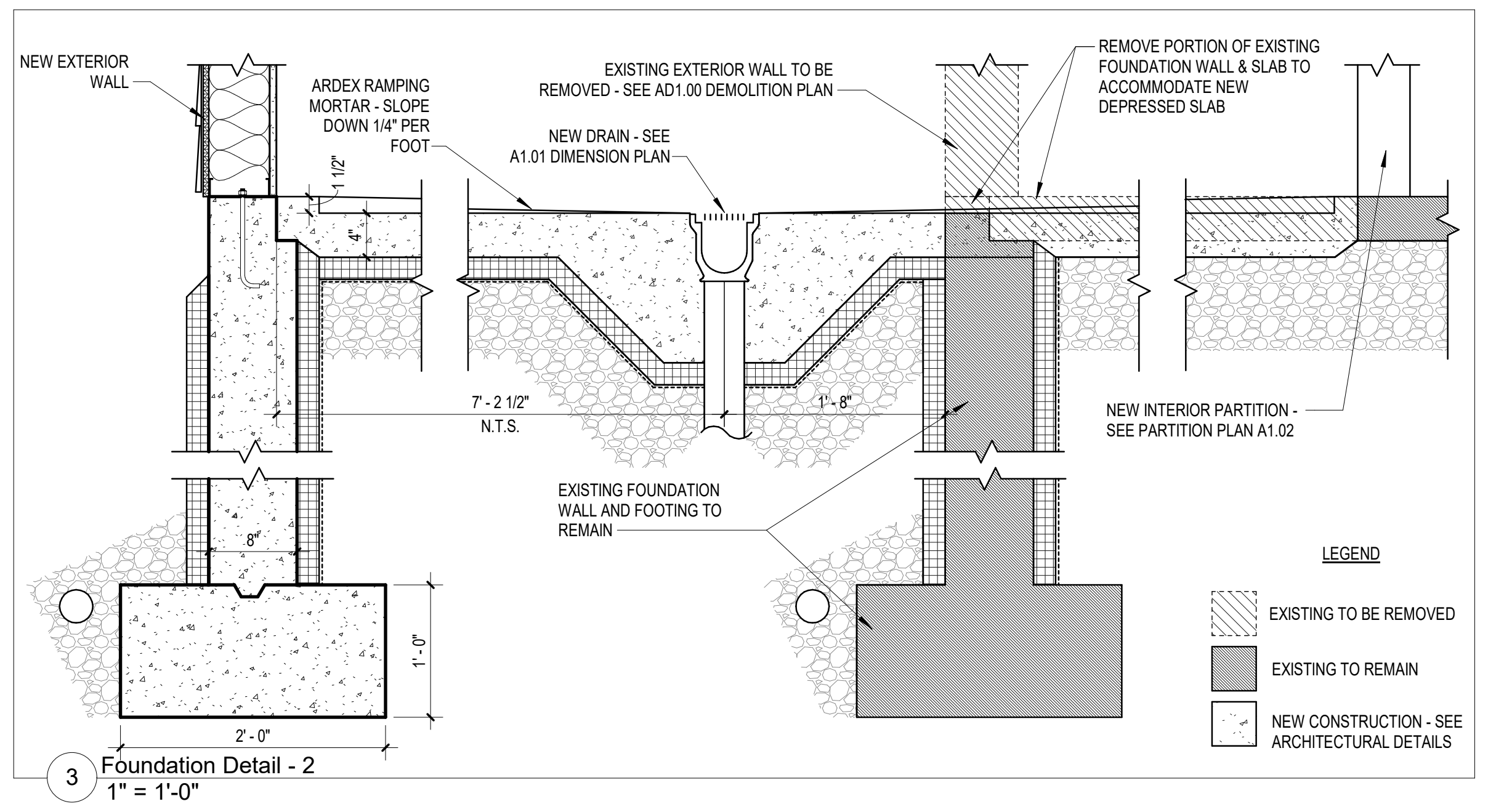
1. ALL INTERIOR DIMENSIONS ARE TAKEN FROM CENTERLINE OF STUD AND/OR STRUCTURE UNLESS OTHERWISE NOTED.

2. ALL EXTERIOR DIMENSIONS ARE TAKEN FROM FACE OF FOUNDATION WALL UNLESS OTHERWISE NOTED.

3. ALL INTERIOR DOOR OPENINGS SHOULD BE LOCATED 4" (ROUGH) MIN. FROM THE JAM TO THE NEAREST ADJACENT WALL UNLESS OTHERWISE NOTED


GENERAL NOTE:
COORDINATE MODIFICATIONS / ALTERNATIONS TO EXISTING FOUNDATION WALLS AND FOOTING TO ACCOMMODATE NEW DEPRESSED SLABS AND DRAIN LOCATIONS
REMOVE PORTION OF EXISTING FOUNDATION WALL TO ACCOMMODATE NEW DEPRESSED SLAB. SEE 26/A7.01 FOR STANDARD RUN CURB DETAIL @ DIVIDER
REMOVE PORTION OF EXISTING SLAB WALL TO ACCOMMODATE NEW DEPRESSED SLAB
SLOPE DOWN 1/4" PER FOOT
PORTION OF EXISTING FLOOR SLAB TO REMAIN. CUT SLAB @ 5" FROM BEGINNING OF DEPRESSION. SEE 26/A7.01 FOR STANDARD TRENCH @ RUN GATE DETAIL
TRENCH DRAINS
4' - 1 3/4"
0' - 5"
CATCH BASINS / DROP BOXES
NEW DEPRESSED SLAB. SEE RUN DETAILS
EXISTING FOUNDATION WALL TO BE CUT TO ACCOMMODATE NEW TRENCH DRAINS. V.I.F. LOCATION OF EXIST. FOUNDATION WALLS AND FOOTING
B.O.F. EXIST V.I.F.
LEGEND
EXISTING TO BE REMOVED
EXISTING TO REMAIN
NEW CONSTRUCTION - SEE ARCHITECTURAL DETAILS

② Foundation Detail - 1
1" = 1'-0"


NEW EXTERIOR WALL
ARDEX RAMPING MORTAR - SLOPE DOWN 1/4" PER FOOT
EXISTING EXTERIOR WALL TO BE REMOVED - SEE AD1.00 DEMOLITION PLAN
NEW DRAIN - SEE A1.01 DIMENSION PLAN
REMOVE PORTION OF EXISTING FOUNDATION WALL & SLAB TO ACCOMMODATE NEW DEPRESSED SLAB
1 1/2"
7' - 2 1/2" N.T.S.
1' - 8"
NEW INTERIOR PARTITION - SEE PARTITION PLAN A1.02
EXISTING FOUNDATION WALL AND FOOTING TO REMAIN
1' - 0"
2' - 0"
LEGEND
EXISTING TO BE REMOVED
EXISTING TO REMAIN
NEW CONSTRUCTION - SEE ARCHITECTURAL DETAILS

③ Foundation Detail - 2
1" = 1'-0"

GENERAL NOTE:

THIS ARCHITECTURAL FOUNDATION PLAN IS TO BE REVIEWED IN TANDEM WITH THE STRUCTURAL DRAWINGS. THE STRUCTURAL DRAWINGS IDENTIFY THE DETAILED SCOPE OF WORK.

N PROJECT NORTH
S W E N TRUE NORTH

REVISION

NO..	DESCRIPTION	DATE
1	Revision 1	Date 1

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County Project # PW19B035BLD

ARCHITECTURAL FOUNDATION PLAN - NEW

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

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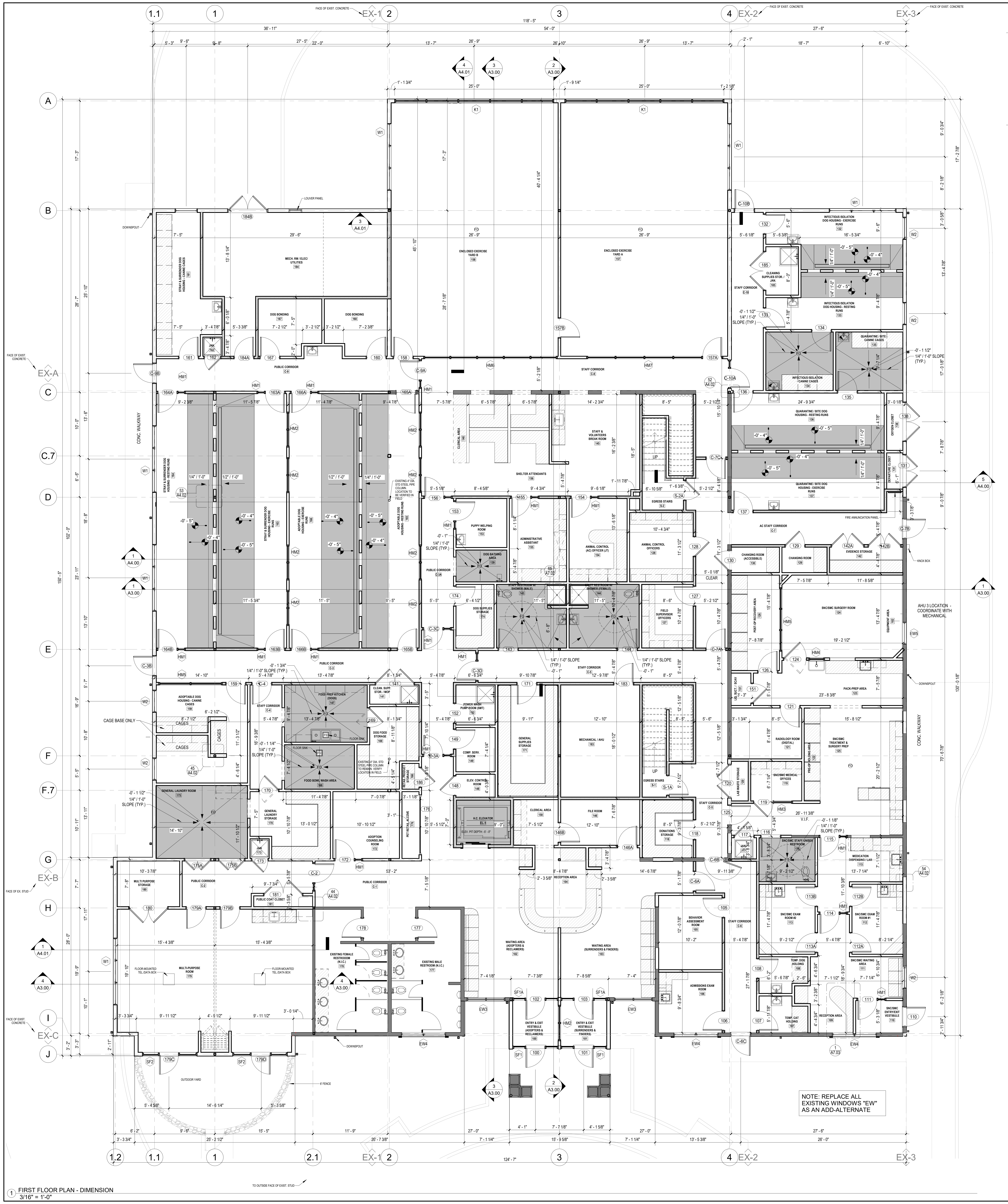

1.1
1
EX-1
2
3
4
EX-2
EX-3
1.2
2.1
A
B
EX-A
C
C.7
D
E
F
F.7
G
EX-B
H
I
EX-C
J
118' - 5"
124' - 7"
150' - 5"
FACE OF EXIST. CONCRETE
CONC. WALKWAY
MECH. RM / ELEC/ UTILITIES
ENCLOSED EXERCISE YARD B
ENCLOSED EXERCISE YARD A
DOG BONDING
INFECTIOUS ISOLATION DOG HOUSING - EXERCISE RUNS
INFECTIOUS ISOLATION DOG HOUSING - RESTING RUNS
INFECTIOUS ISOLATION CANINE CAGES
QUARANTINE / BITE CANINE CAGES
QUARANTINE / BITE DOG HOUSING - RESTING RUNS
QUARANTINE / BITE DOG HOUSING - EXERCISE RUNS
PUBLIC CORRIDOR
STAFF CORRIDOR
AC STAFF CORRIDOR
ADOPTABLE DOG HOUSING - EXERCISE RUNS
STAFF & VOLUNTEERS BREAK ROOM
SHELTER ATTENDANTS
PUPPY WELPING ROOM
ADMINISTRATIVE ASSISTANT
ANIMAL CONTROL (AC) OFFICER LT
ANIMAL CONTROL OFFICERS
EGRESS STAIRS
DOG BATHING AREA
DOG SUPPLIES STORAGE
CHANGING ROOM (ACCESSIBLE)
CHANGING ROOM
EVIDENCE STORAGE
SNC/SMC SURGERY ROOM
AHU 3 LOCATION - COORDINATE WITH MECHANICAL
ADOPTABLE DOG HOUSING - CANINE CAGES
FOOD PREP KITCHEN (DOGS)
DOG FOOD STORAGE
FOOD BOWL WASH AREA
GENERAL LAUNDRY ROOM
GENERAL LAUNDRY STORAGE
ADOPTION COUNSELING ROOM
GENERAL SUPPLIES STORAGE
MECHANICAL / AHU
POWER WASH PUMP ROOM
COMP. SERV. ROOM
ELEC. CONTROL ROOM
H.C. ELEVATOR
CLERICAL AREA
FILE ROOM
DONATIONS STORAGE
RADIOLOGY ROOM (DIGITAL)
SNC/SMC MEDICAL OFFICES
SNC/SMC TREATMENT & SURGERY PREP
PACK-PREP AREA
MEDICATION DISPENSING / LAB
SNC/SMC STAFF SHOWER / RESTROOM
MULTI-PURPOSE STORAGE
PUBLIC COAT CLOSET
MULTI-PURPOSE ROOM
EXISTING FEMALE RESTROOM (H.C.)
EXISTING MALE RESTROOM (H.C.)
WAITING AREA (ADOPTERS & RECLAIMERS)
WAITING AREA (SURRENDERS & FINDERS)
RECEPTION AREA
BEHAVIOR ASSESSMENT ROOM
ADMISSIONS EXAM ROOM
SNC/SMC EXAM ROOM #2
SNC/SMC EXAM ROOM #1
TEMP. DOG HOLDING
TEMP. CAT HOLDING
SNC/SMC WAITING AREA
SNC/SMC ENTRY/EXIT VESTIBULE
ENTRY & EXIT VESTIBULE (ADOPTERS & RECLAIMERS)
ENTRY & EXIT VESTIBULE (SURRENDERS & FINDERS)
OUTDOOR YARD
CAGE BASE ONLY
CAGES
TO OUTSIDE FACE OF EXIST. STUD

NOTE: REPLACE ALL EXISTING WINDOWS "EW" AS AN ADD-ALTERNATE

1 FIRST FLOOR PLAN - DIMENSION
3/16" = 1'-0"

DIMENSION PLAN KEY

▨	DEPRESSED SLAB (DRAIN)
▨	MILLWORK
▨	PORTION OF EXISTING WALL TO BE RATED
▤	RATED WALL

DIMENSION PLAN NOTES

1. ALL EXISTING OVERALL EXTERIOR DIMENSIONS ARE MEASURED TO FACE OF CONCRETE UNLESS OTHERWISE NOTED.

2. ALL EXTERIOR DIMENSIONS ARE MEASURED TO THE OUTSIDE FACE OF THE STUD UNLESS OTHERWISE NOTED

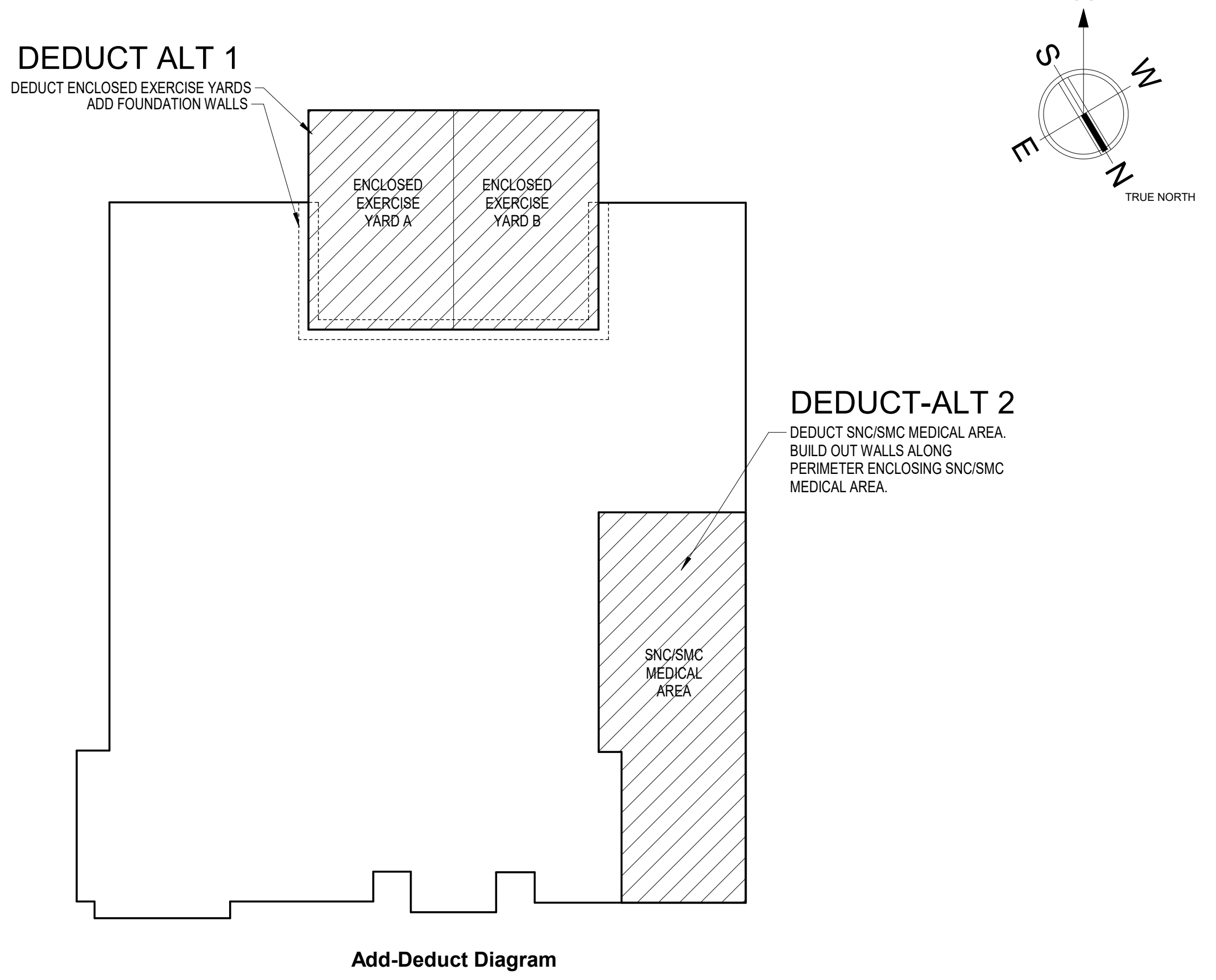
3. ALL EXTERIOR DIMENSIONS AT OPENINGS ARE MEASURED FROM THE CENTERLINE OF THE OPENING TO THE OUTSIDE FACE OF THE STUD UNLESS OTHERWISE NOTED.

4. ALL INTERIOR DIMENSIONS MEASURED AT THE CENTERLINE OF NEW WALLS, AND THE FACE OF STUD AT EXISTING WALLS.

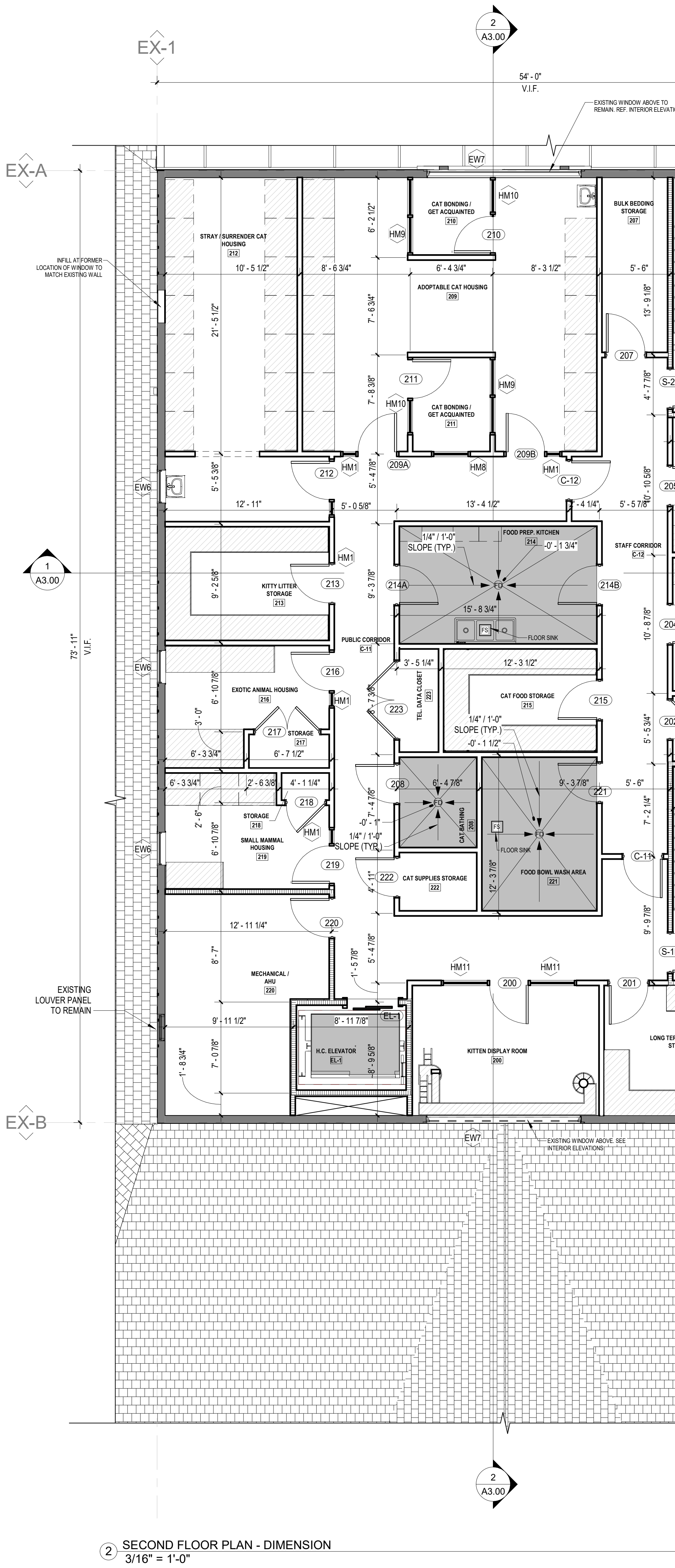
5. ALL DIMENSIONS AT EXISTING WALLS TO BE VERIFIED IN FIELD

6. ALL INTERIOR CORRIDORS TO BE 5' - 0" CLEAR WIDTH UNLESS OTHERWISE NOTED.

NOTE: REFER TO FLOOR PLANS FOR SPECIFIC SCOPES OF WORK


DEDUCT ALT 1
DEDUCT ENCLOSED EXERCISE YARDS
ADD FOUNDATION WALLS
ENCLOSED EXERCISE YARD A
ENCLOSED EXERCISE YARD B
DEDUCT-ALT 2
DEDUCT SNC/SMC MEDICAL AREA. BUILD OUT WALLS ALONG PERIMETER ENCLOSING SNC/SMC MEDICAL AREA.
SNC/SMC MEDICAL AREA
N PROJECT NORTH
S
W
E
N
TRUE NORTH

Add-Deduct Diagram


EX-1
EX-2
EX-A
EX-B
54' - 0"
V.I.F.
73' - 11"
EXISTING WINDOW ABOVE TO REMAIN. REF. INTERIOR ELEVATIONS
STRAY / SURRENDER CAT HOUSING
CAT BONDING / GET ACQUAINTED
ADOPTABLE CAT HOUSING
BULK BEDDING STORAGE
EGRESS STAIRS
GEN. ISOLATION / INFECTIOUS CAT HOUSING
SUPP. STOR.
RESPIRATORY ISOLATION / INFECTIOUS CAT HOUSING
KITTY LITTER STORAGE
FOOD PREP. KITCHEN
PUBLIC CORRIDOR
STAFF CORRIDOR
EXOTIC ANIMAL HOUSING
STORAGE
CAT FOOD STORAGE
SMALL MAMMAL HOUSING
CAT SUPPLIES STORAGE
FOOD BOWL WASH AREA
MOP
MECHANICAL / AHU
H.C. ELEVATOR
KITTEN DISPLAY ROOM
LONG TERM DOCUMENT STORAGE
INFILL AT FORMER LOCATION OF WINDOW TO MATCH EXISTING WALL
EXISTING LOUVER PANEL TO REMAIN
EXISTING LOUVER PANEL

2 SECOND FLOOR PLAN - DIMENSION
3/16" = 1'-0"

REVISION

NO..	DESCRIPTION	DATE

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4848 STATE ROUTE 30, HOUSE SPRINGS, MO
County Project # PW19B035BLD

FLOOR PLANS - DIMENSIONS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

DRAWN BY: Author
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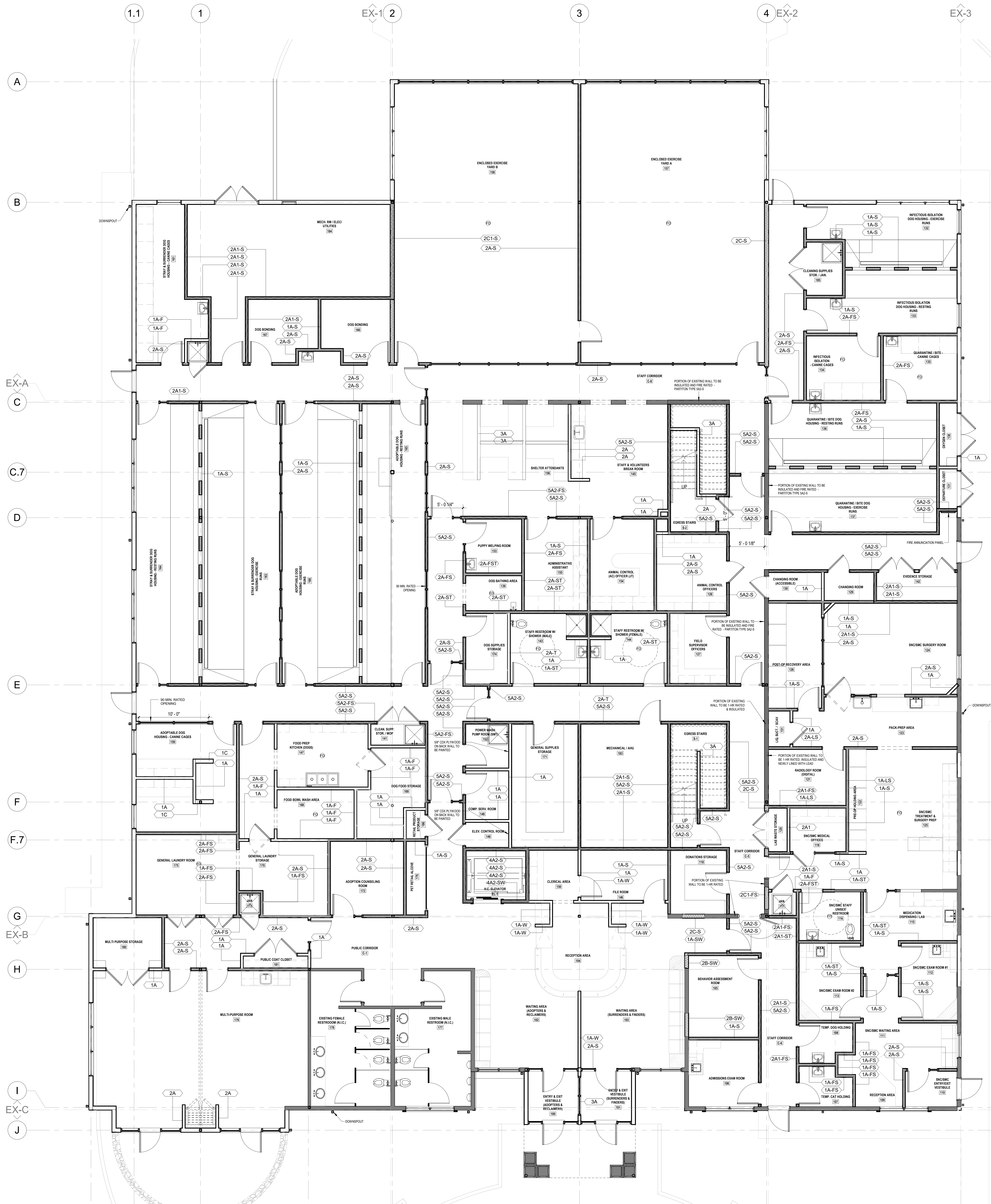
1.1
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EX-1
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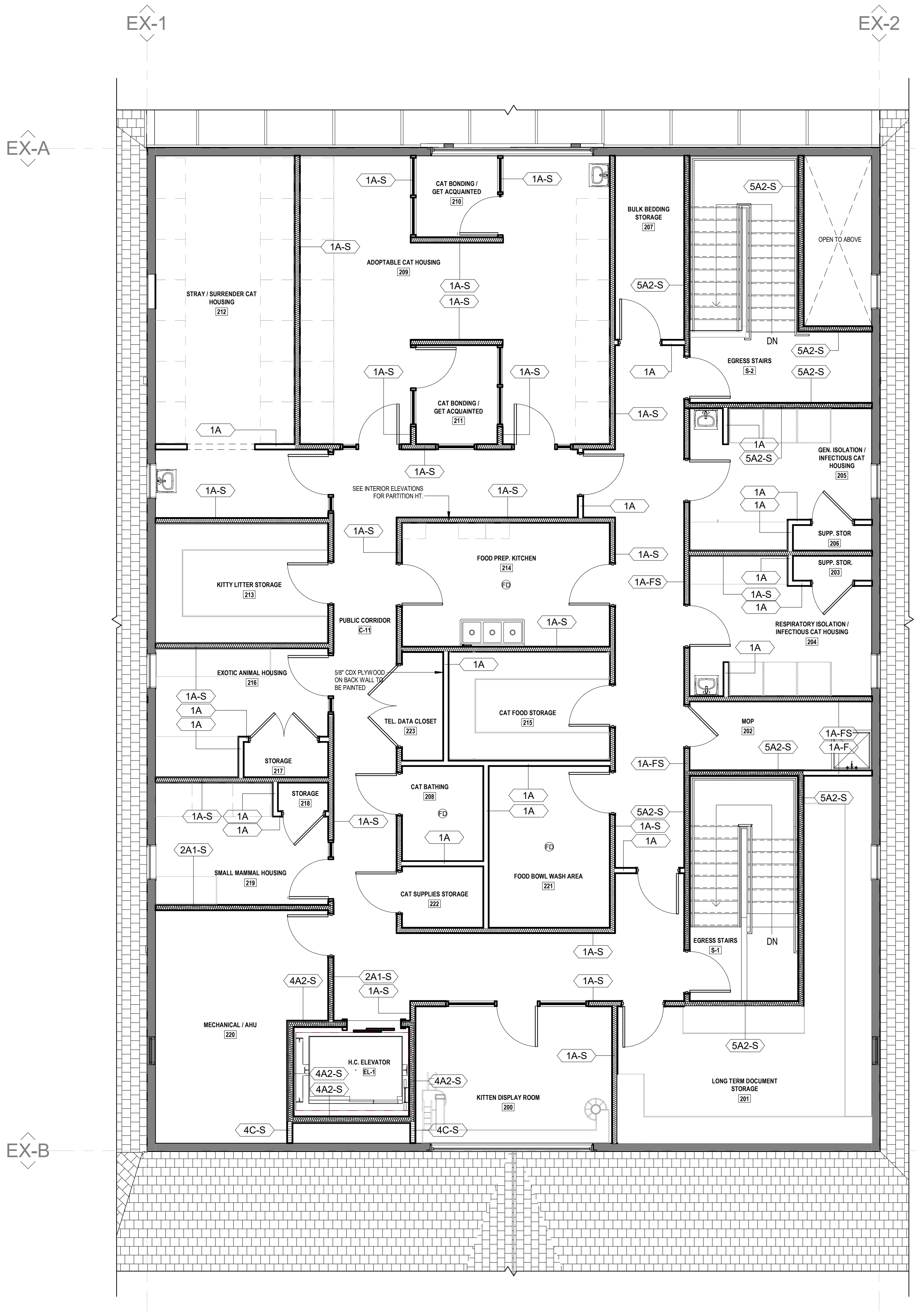
EX-2
EX-3
A
B
EX-A
C
C.7
D
E
F
F.7
G
EX-B
H
I
EX-C
J
1.2
2.1
ENCLOSED EXERCISE YARD B
ENCLOSED EXERCISE YARD A
MECH. RM / ELEC/ UTILITIES
STRAY & SURRENDER DOG HOUSING - CANINE CAGES
DOG BONDING
INFECTIOUS ISOLATION DOG HOUSING - EXERCISE RUNS
CLEANING SUPPLIES STOR. / JAN.
INFECTIOUS ISOLATION DOG HOUSING - RESTING RUNS
INFECTIOUS ISOLATION - CANINE CAGES
QUARANTINE / BITE - CANINE CAGES
QUARANTINE / BITE DOG HOUSING - RESTING RUNS
QUARANTINE / BITE DOG HOUSING - EXERCISE RUNS
STAFF CORRIDOR
PORTION OF EXISTING WALL TO BE INSULATED AND FIRE RATED - PARTITION TYPE 5A2-S
STRAY & SURRENDER DOG HOUSING - RESTING RUNS
STRAY & SURRENDER DOG HOUSING - EXERCISE RUNS
ADOPTABLE DOG HOUSING - EXERCISE RUNS
ADOPTABLE DOG HOUSING - RESTING RUNS
SHELTER ATTENDANTS
STAFF & VOLUNTEERS BREAK ROOM
EGRESS STAIRS
UP
PUPPY WELPING ROOM
DOG BATHING AREA
ADMINISTRATIVE ASSISTANT
ANIMAL CONTROL (AC) OFFICER (LT)
ANIMAL CONTROL OFFICERS
FIRE ANNUNCIATION PANEL
CHANGING ROOM (ACCESSIBLE)
CHANGING ROOM
EVIDENCE STORAGE
90 MIN. RATED OPENING
DOG SUPPLIES STORAGE
STAFF RESTROOM W/ SHOWER (MALE)
STAFF RESTROOM W/ SHOWER (FEMALE)
FIELD SUPERVISOR OFFICERS
SNC/SMC SURGERY ROOM
POST-OP RECOVERY AREA
PORTION OF EXISTING WALL TO BE 1-HR RATED
ADOPTABLE DOG HOUSING - CANINE CAGES
10' - 0"
FOOD PREP KITCHEN (DOGS)
CLEAN. SUPP. STOR. / MOP
POWER WASH PUMP ROOM
GENERAL SUPPLIES STORAGE
MECHANICAL / AHU
PACK-PREP AREA
PORTION OF EXISTING WALL TO BE 1-HR RATED, INSULATED AND NEWLY LINED WITH LEAD
RADIOLOGY ROOM (DIGITAL)
DOG FOOD STORAGE
FOOD BOWL WASH AREA
5/8" CDX PLYWOOD ON BACK WALL TO BE PAINTED
COMP. SERV. ROOM
ELEV. CONTROL ROOM
SNC/SMC TREATMENT & SURGERY PREP
SNC/SMC MEDICAL OFFICES
GENERAL LAUNDRY ROOM
GENERAL LAUNDRY STORAGE
ADOPTION COUNSELING ROOM
PET RETAIL ALCOVE
H.C. ELEVATOR
CLERICAL AREA
FILE ROOM
DONATIONS STORAGE
STAFF CORRIDOR
SNC/SMC STAFF UNISEX RESTROOM
MEDICATION DISPENSING / LAB
MULTI-PURPOSE STORAGE
PUBLIC COAT CLOSET
PUBLIC CORRIDOR
RECEPTION AREA
BEHAVIOR ASSESSMENT ROOM
SNC/SMC EXAM ROOM #1
SNC/SMC EXAM ROOM #2
MULTI-PURPOSE ROOM
EXISTING FEMALE RESTROOM (N.I.C.)
EXISTING MALE RESTROOM (N.I.C.)
WAITING AREA (ADOPTERS & RECLAIMERS)
WAITING AREA (SURRENDERS & FINDERS)
ADMISSIONS EXAM ROOM
TEMP. DOG HOLDING
SNC/SMC WAITING AREA
TEMP. CAT HOLDING
RECEPTION AREA
SNC/SMC ENTRY/EXIT VESTIBULE
ENTRY & EXIT VESTIBULE (ADOPTERS & RECLAIMERS)
ENTRY & EXIT VESTIBULE (SURRENDERS & FINDERS)
DOWNSPOUT
2A1-S
2A-S
2C1-S
2C-S
1A-S
1A-F
1A-FS
2A-FS
5A2-S
5A2-FS
3A
1A
2A
1C
2A-ST
2A-T
2A-FST
1A-ST
4A2-S
4A2-SW
1A-W
2B-SW
2C1-FS
2A1-FS
2A1-ST
1A-LS
2A-LS
4C-S

1 FIRST FLOOR PLAN - PARTITIONS
3/16" = 1'-0"


EX-1
EX-2
EX-A
EX-B
STRAY / SURRENDER CAT HOUSING
CAT BONDING / GET ACQUAINTED
ADOPTABLE CAT HOUSING
BULK BEDDING STORAGE
OPEN TO ABOVE
EGRESS STAIRS
DN
GEN. ISOLATION / INFECTIOUS CAT HOUSING
SEE INTERIOR ELEVATIONS FOR PARTITION HT.
KITTY LITTER STORAGE
PUBLIC CORRIDOR
FOOD PREP. KITCHEN
SUPP. STOR.
RESPIRATORY ISOLATION / INFECTIOUS CAT HOUSING
EXOTIC ANIMAL HOUSING
5/8" PLYWOOD ON BACK WALL TO BE PAINTED
TEL. DATA CLOSET
CAT FOOD STORAGE
MOP
STORAGE
CAT BATHING
SMALL MAMMAL HOUSING
FOOD BOWL WASH AREA
CAT SUPPLIES STORAGE
MECHANICAL / AHU
H.C. ELEVATOR
KITTEN DISPLAY ROOM
LONG TERM DOCUMENT STORAGE
1A-S
1A
1A-F
1A-FS
2A1-S
4A2-S
4C-S
5A2-S

2 SECOND FLOOR PLAN - PARTITIONS
3/16" = 1'-0"

PARTITION PLAN KEY

▨ PORTION OF EXISTING WALL TO BE FIRE RATED - TYPE 5 PARTITION

PARTITION TYPE LEGEND

METAL STUD SUBSTRATE

TYPE	SIZE	FIRE RATING	SPECIALTY
1 PART. HEIGHT	REFER TO PARTITION TYPE DETAILS FOR FRAMING MEMBER TYPE AND SIZE	.75 = 45 MIN.	-S ACOUSTIC INSULATION
2 FULL HEIGHT		1 = 1 HOUR	-L LEAD LINED GWB
3 KNEE WALL			-T TILE
4 RATED SHAFT			-F FIBERGLASS REINFORCED PANEL
			-W 4" HARDWOOD PANEL

EXAMPLE: 2A1-S = PARTITION TYPE #, 1 HOUR, METAL STUD, 3-5/8" STUD, ACOUSTIC INSULATION

NOTE: PROVIDE BLOCKING BETWEEN STUDS FOR WALL CABINETS ABOVE ALL OFFICE DESK LOCATIONS

3 PARTITION TYPE LEGEND ON PLAN
1" = 1'-0"

PROJECT NORTH
TRUE NORTH
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NO..	REVISION DESCRIPTION	DATE

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County Project # PW19B035BLD

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FLOOR PLANS - PARTITIONS

PROGRESS SET ☐ BID SET ■ PERMIT SET ☐ CONSTRUCTION SET ☐

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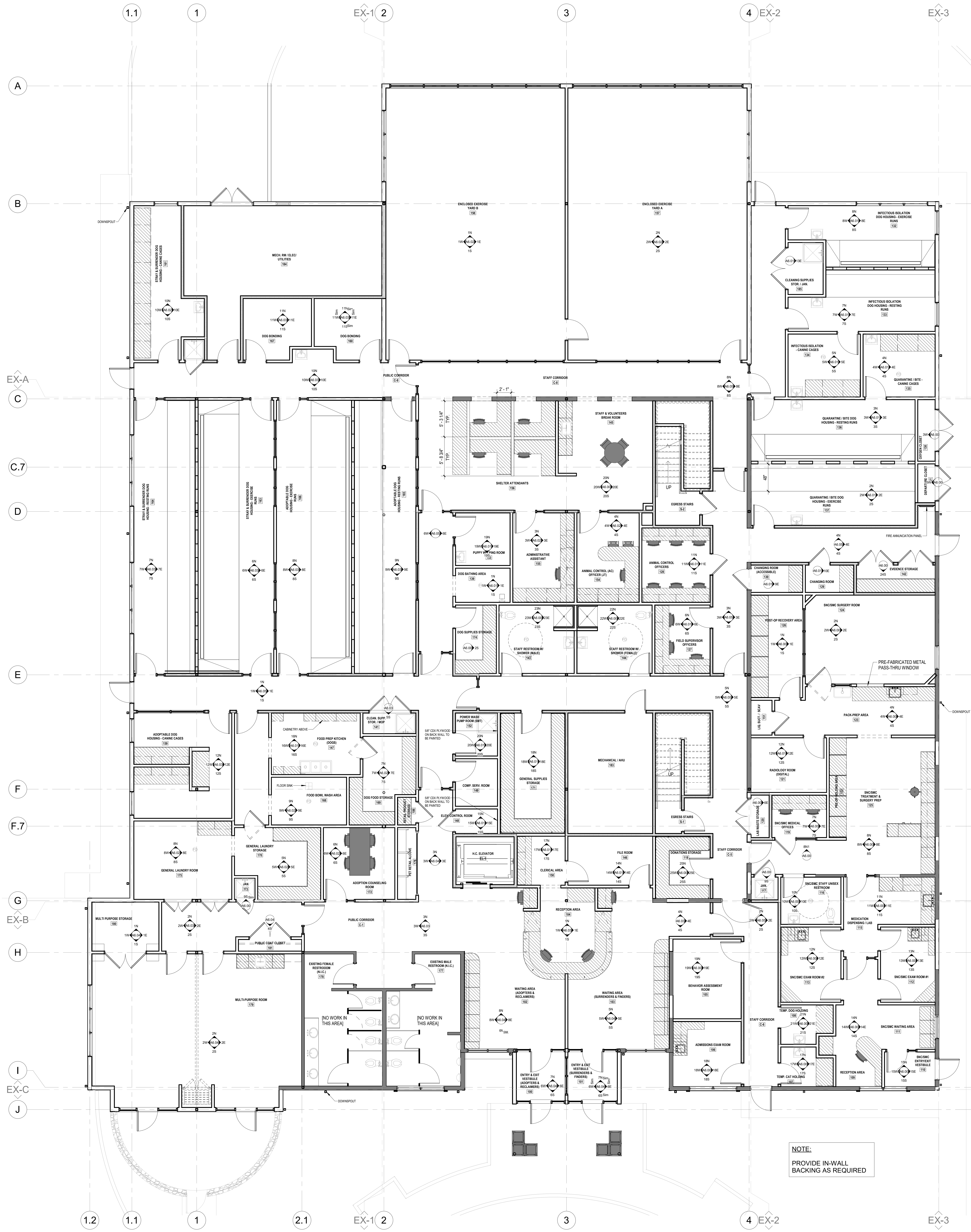
1.1
1
EX-1
2
3
4
EX-2
EX-3
A
B
EX-A
C
C.7
D
E
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[NO WORK IN THIS AREA]
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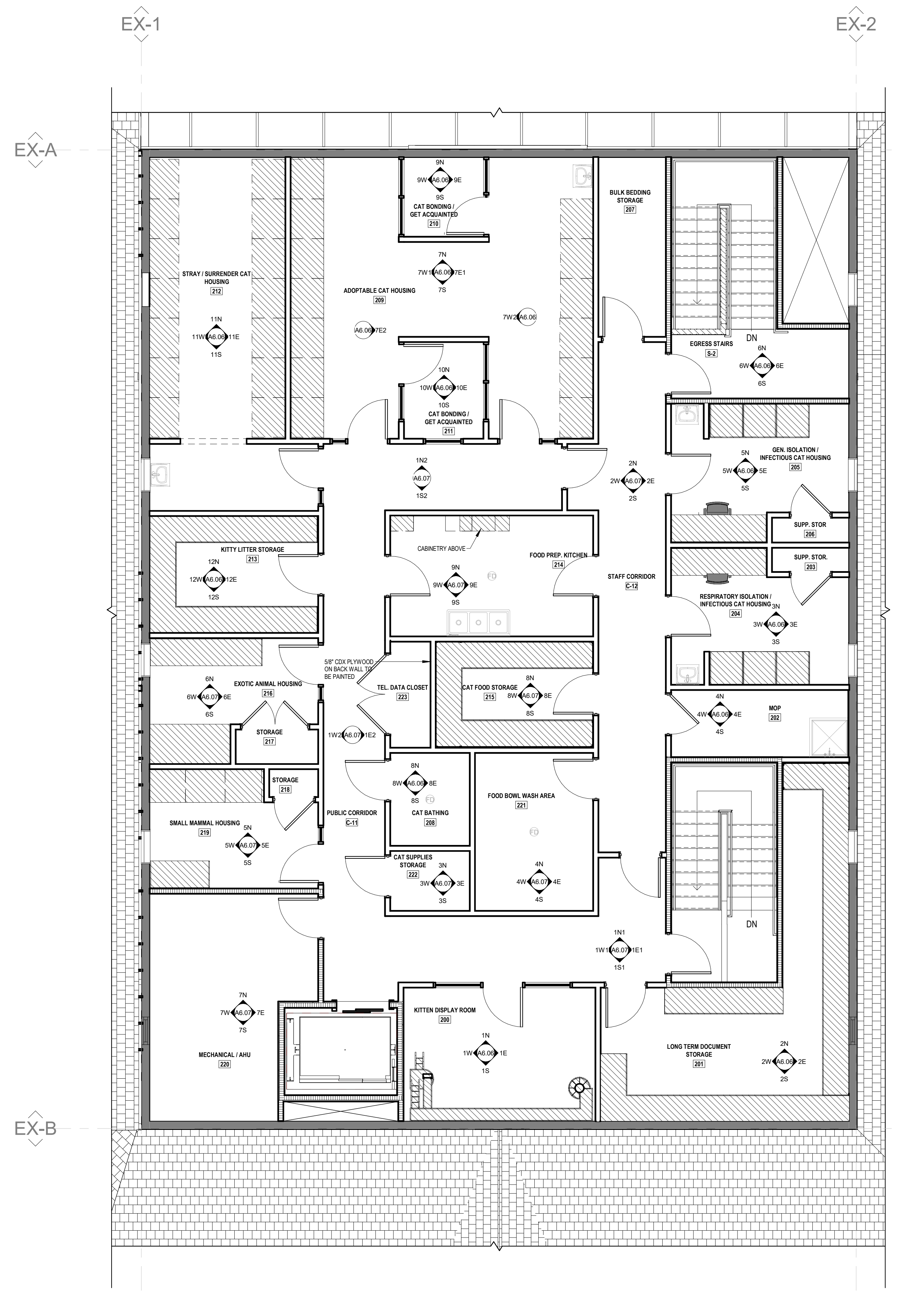
① FIRST FLOOR PLAN - MILLWORK / FURNISHINGS
3/16" = 1'-0"

NOTE:
PROVIDE IN-WALL BACKING AS REQUIRED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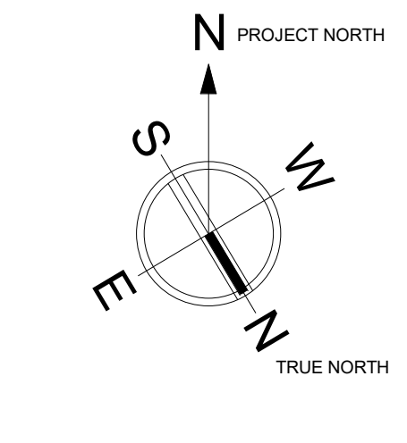
② SECOND FLOOR PLAN - MILLWORK / FURNISHINGS
3/16" = 1'-0"

MILLWORK & FURNISHING LEGEND

▨	GENERAL MILLWORK
■	FURNITURE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NO..	DESCRIPTION	DATE

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