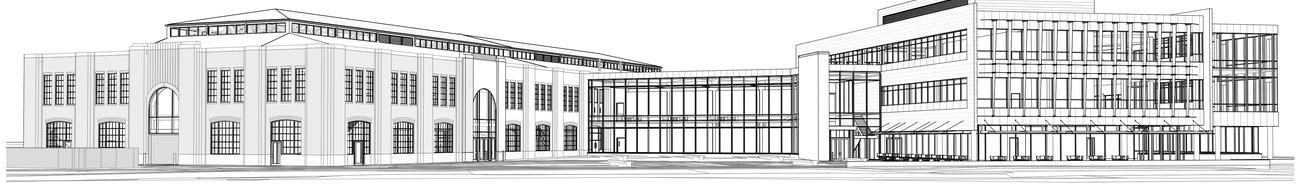

Keynote Masterlist:

Keynote	Description
033000.A	CONCRETE FOOTING – SEE STRUCTURAL
033000.A2	SONOTUBE COLUMN FOOTING – SEE STRUCTRUAL
033000.C	CAST-IN-PLACE CONCRETE WITH GROUT CLEANED FINISH
033000.D	5” CONCRETE FLOOR SLAB – SEE STRUCTURAL
033000.D2	STRUCTURAL CONCRETE FLOOR SYSTEM – SEE STRUCTURAL
033000.D3	CAST-IN-PLACE CONCRETE BEARING WALL – SEE STRUCTURAL
033000.D4	CAST-IN-PLACE CONCRETE COLUMN – SEE STRUCTURAL
033000.E	4” CONCRETE SLAB ON GRADE – SEE STRUCTURAL
033000.F	VAPOR BARRIER
033000.G	4”GRANULAR FILL
033000.H	12” CONCRETE SHEAR WALL – SEE STRUCTURAL
033000.J	CONCRETE CURB – SEE STRUCTURAL
033000.K	12” CAST-IN-PLACE CONCRETE SITE WALL WITH GROUT CLEANED FINISH – CHAMFER EDGES
033000.K2	4” X 12” OPENING AT FLOOR LEVEL FOR WATER DRAINAGE, CHAMFER EDGES
033000.L	CAST-IN-PLACE CONCRETE STAIR
034500.A	PRECAST ARCHITECTRUAL CONCRETE WALL CAP
034500.B	PRECAST ARCHITECTURAL CONCRETE SILL
034500.C	PRECAST ARCHITECTURAL WATER TABLE PANEL
034500.D	PRECAST ARCHITECTUAL CONCRETE COPING
042000.A	8” CONCRETE MASONRY UNITS
042000.A2	10” CONCRETE MASONRY UNITS
042000.A3	6” CONCRETE MASONRY UNITS
042000.A4	4” CONCRETE MASONRY UNITS
042000.B	FACE BRICK
042000.B2	FACE BRICK – SAW TOOTH PATTERN
042000.C	ADJUSTABLE VENEER ANCHORS SPACED AT 16” O.C. MAXIMUM
042000.D	THRU WALL FLASHING ASSEMBLY - SEE TYPICAL DETAILS ON A400
042000.D2	RUBBERIZED ASHPHALT FLASHING
042000.D3	CELLULAR PLASTIC WEEP/VENT
042000.D4	CAVITY DRAINAGE MATERIAL
042000.E	3” EXTRUDED POLYSTYRENE CAVITY WALL INSULATION
042000.F	SOLID MASONRY WALL OF 4” X 12” X 2 1/4" BRICK
042000.G	
051200.A	STEEL COLUMN – REFER TO STRUCTURAL
051200.B	STEEL BEAM – REFER TO STRUCTURAL
051200.C	STEEL WIDE FLANGE – REFER TO STRUCTURAL
051200.D	STEEL TUBE – REFER TO STRUCTURAL
051200.D2	4” X 6” X 1/4” STEEL TUBE JAMB
051200.D3	6” X 6” X 1/4” STEEL TUBE
051200.E	STEEL CHANNEL – REFER TO STRUCTURAL
051200.F	STEEL ANGLE – REFER TO STRUCTURAL
051200.F2	4” X 4” X 1/4" X 8’-0” STEEL ANGLE W/ FOUR 1/2" DIA CHEMICAL ANCHORS SPACED AT 24” O.C.
051200.F3	4” X 4” X 1/4” STEEL ANGLE – CONTINUOUS
051200.G	STEEL PLATE – REFER TO STRUCTURAL
051200.H	STEEL BRACING, SEE STRUCTURAL
051200.J	GALVANIZED STEEL SUPPORT STRUCTURE FOR VERTICAL SUNSHADE – SEE STRUCTURAL
051200.K	GALVANIZED STEEL CANOPY STRUCTURE – SEE STRUCTURAL
051200.L	GALVANIZED STEEL ANGLE – L3 X 3 X 3/16”
051200.M	GALVANIZED STEEL ANGLE – L8 X 4 X 1/2”
051200.N	2” X 10” X 1/4” STEEL TUBE – WELD TO STEEL PLATE ABOVE
051200.N2	2” X 10” X 1/4” STEEL TUBE – WELD TO STEEL EMBED PLATE IN SLAB EDGE
051200.P	METAL TIE ROD – SEE STRUCTURAL
051200.Q	GALVANIZED STEEL TUBE – SEE STRUCTURAL
052100.A	STEEL JOIST – REFER TO STRUCTURAL
053100.A	STEEL DECKING – REFER TO STRUCTURAL
053100.B	STEEL SHEET METAL POURSTOP
054000.A	6” STRUCTURAL STEEL STUDS SPACED AT 24” O.C.
054000.B	3 5/8” STRUCTURAL STEEL STUDS SPACED AT 24” O.C.
054000.C	FRAMING AS REQUIRED
054000.D	2 1/2" - 16 GA., CSJ STRUCTURAL STEEL STUDS AT 16” O.C.
054000.D2	3 5/8" - 16 GA., CSJ STRUCTURAL STEEL STUDS AT 16” O.C.
054000.E	8” STRUCTURAL STEEL STUDS SPACED AT 16” O.C.
055000.A	STEEL LINTEL, SEE STRUCTURAL
055000.B	STEEL ANGLE, 3 1/2” X 21/2” X 1/4", CONT.
055000.C	ELEVATOR HOIST BEAM W8 X 14
055000.C2	ELEVATOR DIVIDER BEAM 5” X 4” X 1/4" STEEL TUBE
055000.C3	ELEVATOR PIT LADDER
055000.D	METAL ACCESS LADDER
055000.E	METAL BOLLARD
055000.E2	4” X 4” X 3/16” STAINLESS STEEL BOLLARD WITH CLOSED TOP AND WALL STOP. PROVIDE PROVISIONS FOR INSTALLATION OF ADA PUSHBUTTON AND CARD READERS WHERE REQUIRED. PROVIDE PROVISIONS FOR THE INSTALLATION OF A 1” CONDUIT WITHIN THE BOLLARD TO FEED THESE DEVICES. COORDINATE WITH ELECTRICAL AND CONTROLS CONTRACTOR AS REQUIRED. TOP OF BOLLARD TO BE 44” ABOVE PAVEMENT SURFACE
055000.F	HSS 3” X 1 1/2” X 3/16" STEEL TUBE COUNTERTOP SUPPORT. PROVIDE HSS 3” x 1 ½”x3/16” VERTICAL TUBES WITHIN END WALLS FOR ATTACHMENT OF FRONT AND BACK HORIZONTAL SUPPORTS
055000.F2	2” X 8” X ¼” STEEL TUBE JAMB (GALV.)
055000.G	3” X 8 5/8” ALUMINUM ANGLE, PAINTED TO MATCH STOREFRONT
055000.H	PRE-FINISHED ALUMINUM CHANNEL, FINISH TO MATCH METAL PLATE PNLS – WELD TO ALUMINUM ANGLE ABV
055000.J	3” X 6” X 10 GAUGE CONTINUOUS CLOSURE – MAINTAIN 1/2" CLEARANCE BETWEEN CLOSURE PLATE AND ALUMINUM FRAMING. FASTEN TO CONCRETE W/ 1/2" DIA. SLEEVE ANCHORS AT 4’-0” O.C.
055000.K	2” X 3” ALUMINUM ANGLE
055000.L	1 1/2” DIAMETER STAINLESS STEEL HANDRAIL
055100.A	METAL PAN STAIR WITH CONCRETE FILLED TREADS
055100.B	STEEL GUARDRAIL – PAINT FINISH
055100.B2	1 1/2" X 1 1/2" STEEL TUBE TOP AND BOTTOM RAILS
055100.B3	1/2" X 1/2” SQUARE PICKETS SPACED AT LESS THAN 4” O.C.
055100.C	1 ½” DIA. HANDRAIL – PAINT FINISH
055100.D	INDUSTRIAL TYPE STAIR WITH STEEL GRATING TREADS
057000.A	DECORATIVE STAINLESS STEEL WOVEN FABRIC
057000.B	ALUMINUM CANOPY PANELS – CUSTOM PUNCH PATTERN, POWDER COATED FINISH
057000.C	
057300.A	DECORATIVE STAINLESS STEEL RAIL SYSTEM WITH GLASS INFILL
057300.A2	DECORATIVE STAINLESS STEEL RAIL SYSTEM WITH STAINELSS STEEL MESH INFILL
057300.A3	DECORATIVE STAINLESS STEEL RAIL SYSTEM – NO GUARDRAIL – POST & HANDRAIL ONLY
057300.B	ILLUMINATED HANDRAIL SYSTEM
057300.C	1 1/2” DIA. WOOD TOP RAIL
057300.D	1 1/2” DIA. WOOD HANDRAIL
057300.E	STAINLESS STEEL SPIDER FITTING
057300.F	STAINLESS STEEL BLADE POST
057300.G	STAINLESS STEEL HANDRAIL SADDLE
057300.H	7”X7”X1/2” EMBED PLATE
057500.A	DECORATIVE FORMED METAL COLUMN COVERS - 9.75 INCH RADIUS
057500.B	HAIRLINE JOINT
057500.C	INTERLOCKING KEYHOLE SYSTEM
057500.D	CAULK STOP
057500.E	SPRING LOADED REVEAL
061053.A	WOOD BLOCKING
061053.B	1/2" PLYWOOD BACKING
061053.C	2 X 4 WOOD STUDS @ 16” O.C.
061600.A	5/8” GLASS MAT GYPSUM WALL SHEATHING
061600.A2	1/4" GLASS MAT SYPSUM WALL SHEATHING
061600.B	5/8" FIRE RESISTANCE TREATED, ORIENTED –STRAND BOARD WALL SHEATHING
061600.C	5/8” ORIENTED –STRAND BOARD ROOF SHEATHING
061600.D	3/4" PLYWOOD UNDERLAYMENT
061600.D2	3/4" PLYWOOD SUBFLOORING
061600.D3	
061600.E	3/4" ORIENTED STRAND BOARD T&G ROOF SHEATHING
061600.F	1/2" ORIENTED STRAND BOARD WALL SHEATHING FASTENED TO STUDS WITH #8 SELF TAPPING SCREWS 6” O.C. @ EDGES OF PLYWOOD AND 12” O.C. INTERMEDIATE
064023.A	LAMINATE CLAD BASE CABINET
064023.B	LAMINATE CLAD WALL CABINET
064023.C	LAMINATE CLAD COUNTERTOP
064023.D	4” OAK HARDWOOD TRIM – STAIN FINISH
064023.D2	6” OAK HARDWOOD BASE – STAIN FINISH
064023.E	3/4" OAK HARDWOOD VENEER PLYWOOD WITH HARDWOOD EDGES – STAIN FINISH
064023.F	SOLID WOOD BENCH
071416.A	COLD FLUID APPLIED WATERPROOFING SYSTEM
072100.A	2” MINERAL-WOOL BOARD INSULATION
072100.B	6” GLASS-FIBER BLANKET INSULATION R=19
072100.B2	3 ½” GLASS FIBER BLANKET INSULATION R=11
072100.C	1” FOAM PLASTIC BOARD INSULATION, R=7
072100.C2	3” FOAM PLASTIC BOARD INSULATION R=15
072100.C3	2” EXTRUDED POLYSTYRENE PERIMETER FOUNDATION INSULATION R=10
072100.C4	2” FOAM PLASTIC BOARD INSULATION R=10
072100.D	6 MIL POLY VAPOR BARRIER
072100.E	SPRAY POLYURETHANE FOAM INSULATION
072100.F	14” BLOWN FIBERGLASS INSULATION
072726.A	FLUID APPLIED MEMBRANE AIR BARRIER SYSTEM, 40 MILS THICK (PERMIABLE)
072726.B	AIR BARRIER FLASHING
073113.A	ASPHALT SHINGLES – ALTERNATE ROOFING SYSTEM
073190.A	COMPOSITE SLATE SHINGLES
073190.B	SELF ADHERING SHEET UNDERLAYMENT
073190.C	ROOFING FELT UNDERLAYMENT (DOUBLE LAYER)
074213.A	FLAT LOCK ZINC, CONCEALED FASTENER, METAL WALL PANELS, 16” X 36” TYPICAL
074213.A2	FLAT LOCK ZINC PANELS WITH THIN ORGANIC COATING
074213.B	PRE-FINISHED GALVANIZED STEEL, HORIZONTAL FLUSH PROFILE, CONCEALED FASTENER METAL WALL PANEL
074213.B2	CONTINUOUS STARTER FLASHING
074213.B3	BASE FLASHING & COUNTERFLASHING – FIELD INSTALL 1/8” SHIM AT 18” O.C. TO ALLOW FOR DRAINAGE
074213.B4	SELF ADHERING BUTYL FLASHING TAPE
074213.B5	SUBGIRT
074213.B6	PANEL CLIP
074213.B7	FIELD APPLIED SEALANT
074213.B8	7/8” X 6” LONG CLOSED CELL BACKER ROD
074213.B9	JAMB FLASHING – EXTEND INTERIOR JAMB FLASHING BELOW SILL OPENING MIN. 1/2”
074213.B10	DOME HEAD RIVET
074213.B11	SHOP ASSEMBLED MITERED CORNER
074213.B12	COLD FORMED METAL FRAMING, 2” Z FURRING CHANNELS
074213.B13	COLD FORMED METAL FRAMING, “J” CHANNEL – CONT.
074213.C	ZINC TRIM FLASHING
074213.D	COLD FORMED METAL FRAMING, 3” Z FURRING CHANNELS
074213.E	COLD FORMED METAL FRAMING, “J” CHANNEL – CONT.
074213.F	BLIND RIVET, STAINLESS STEEL
074213.G	3/8” DIAMETER WEEP HOLE, 6” O.C.
074213.H	STAINLESS STEEL RECEIVER STRIP
074213.J	ZINC, ATYPICAL FLATLOCK PNL
074213.K	STAINLESS STEEL FLATLOCK CLIP
074213.L	ZINC JAMB FLASHING
074213.M	FASTENER
074213.N	ZINC SILL
074213.P	STAINLESS STEEL “J” CHANNEL
074213.Q	ZINC COPING
074213.R	20 GAUGE STAINLESS STEEL CLEAT - 60” O.C.
074213.S	CONCEALED 6” WIDE SPLICE WITH PREFORMED CHANNEL FOR WATER CONTROL
074213.T	SEPARATION SHEET – APPROVED BY ZINC MANUFACTURER
074213.U	ZINC, ATYPICAL FLATLOCK PNL – EXTEND HEMS BOTH SIDES, TILE EDGES TO ALIGN VERTICALLY
074213.V	PRE-FINISHED CORRUGATED PROFILE, GALVANIZED STEEL WALL PANEL
074213.V2	CONTINUOUS STARTER FLASHING
074213.V3	BASE FLASHING & COUNTERFLASHING
074213.V4	CONTINUOUS SHIM – 3/16” THICK X 3” WIDE X 48” LONG AT EACH FASTENING POINT
074213.V5	JAMB FLASHING
074213.V6	SILL FLASHING
074213.V7	HEAD FLASHING
074213.V8	COLD FORMED METAL FRAMING, 2” Z FURRING CHANNELS
074219.A	PRE-FINISHED ALUMINUM, METAL PLATE WALL PANELS – REFER TO BUILDING ELEVATIONS FOR VERTICAL JOINT DIMENSIONS
074219.A2	PRE-FINISHED ALUMINUM, METAL PLATE WALL PANELS – 5’ WIDE PANELS O.C., HEIGHT VARIES, REFER TO WALL SECTIONS & DETAILS, - 1/8” VERTICAL JOINTS, ALIGN WITH GLAZING MULLIONS, REFER TO ELEVATIONS
074219.A3	PRE-FINISHED ALUMINUM, METAL PLATE WALL PANELS – 2’-6” WIDE PANELS O.C., HEIGHT VARIES, REFER TO WALL SECTIONS & DETAILS - 1” VERTICAL JOINTS, ALIGN WITH GLAZING MULLIONS, REFER TO ELEVATIONS
074219.A4	PRE-FINISHED ALUMINUM, METAL PLATE WALL PANELS – 2’-6” WIDE PANELS O.C., HEIGHT VARIES, REFER TO WALL SECTIONS & DETAILS, - 1/8” VERTICAL JOINTS, ALIGN WITH GLAZING MULLIONS, REFER TO ELEVATIONS
074219.B	COLD FORMED METAL FRAMING, 2” Z FURRING CHANNELS
074219.C	COLD FORMED METAL FRAMING, “J” CHANNEL – CONT.
074219.D	PRE-FINISHED ALUMINUM FLASHING
074219.E	3/8” WEEP HOLES, FIELD DRILL AT 16” O.C.
074219.F	PRE-FINISHED ALUMINUM, METAL “J” CHANNEL – CONT.
074219.G	ALUMINUM ANGLE CLOSURE PIECE
074219.H	PRE-FINISHED ALUMINUM ANGLE – 3 1/4” X 3 1/4”
074219.J	PRE-FINISHED ALUMINUM CLOSURE PIECE
075323.A	FULLY ADHERED, 60 MIL EPDM ROOFING SYSTEM
075323.A2	60 MIL EPDM ROOFING SYSTEM FLASHING
075323.B	5/8” GLASS MAT WATER RESISTANT GYPSUM SUBSTRATE BOARD
075323.C	POLYISO ROOF INSULATION – 2” THICK LAYERS TOTAL 4” THICKNESS. TOTAL R=24 MIN
075323.C2	TAPERED POLYISO ROOF INSULATION TO RESULT IN A MINIMUM SLOPE OF ¼” PER FOOT TOWARD THE DRAIN.
075323.D	¼” GLASS MAT COVER BOARD
075323.E	FLEXIBLE WALKWAY
075323.F	ROOF EXPANSION JOINT OF RUBBER MEMBRANE BELLOWS WITH METAL FLANGES.
075323.F2	SHEET EPDM DRAPED BETWEEN WOOD CURBS FILLED WITH GLASS FIBER BATT INSULATION
075323.G	TERMINATION BAR
076200.A	PRE-FINISHED ALUMINUM SHEET METAL, HANGING “K” STYLE GUTTER
076200.B	PRE-FINISHED ALUMINUM SHEET METAL RECTANGULAR DOWNSPOUT
076200.C	PRE-FINISHED ALUMINUM SHEET METAL GRAVEL STOP – 10’ LENGTHS, ALIGN JOINTS WITH METAL PLATE PANEL JOINTS BELOW – REFER TO BUILDING ELEVATIONS – SEE TYPICAL FLASHING DETAIL ON A400 FOR JOINT CONDITION
076200.C2	CONTINUOUS ALUMINUM SHEET METAL CLEAT
076200.C3	1 1/2" CONTINUOUS ALUMINUM SHEET METAL CLEAT
076200.C4	2” X 3” PRE-FINISHED ALUMINUM SHEET METAL ROOF EDGE FLASHING
076200.D	SHEET METAL ZINC SHEET METAL COPING
076200.D2	CONTINUOUS ZINC SHEET METAL CLEAT
076200.E	PRE-FINISHED ALUMINUM SHEET METAL ROOF EDGE FLASHING
076200.F	PRE-FINISHED ALUMINUM SHEET METAL COUNTER FLASHING
076200.G	STAINLESS STEEL REGLET AND PRE-FINISHED ALUMINUM SHEET METAL COUNTER FLASHING
076200.H	PRE-FINISHED ALUMINUM SHEET METAL DRIP EDGE
076200.J	PRE-FINISHED ALUMINUM SHEET METAL EXPANSION JOINT FLASHING, 3” HIGH WITH 12” HORIZONTAL LEGS ON EACH SIDE OF JOINT.
076200.K	EPDM SHEET DRAPED INTO VOID, FILL VOID WITH FIBERGLASS BATT INSULATION
076200.L	PRE-FINISHED ALUMINUM SHEET METAL COPING - 10’ LENGTHS, ALIGN JOINTS WITH METAL PLATE PANEL JOINTS BELOW – REFER TO BUILDING ELEVATIONS – SEE TYPICAL FLASHING DETAIL ON A400 FOR JOINT CONDITION
076200.M	PRE-FINISHED ALUMINUM SHEET METAL FLASHING
077200.A	36” X 36” ROOF HATCH
079200.A	NON-SAG SILICONE JOINT SEALANT
079200.A2	HORIZONTAL TRAFFIC GRADE – SILICONE JOINT SEALANT
079200.B	LATEX JOINT SEALANT
079200.C	ACOUSTICAL JOINT SEALANT
079200.D	MILDEW RESISTANT SILICONE JOINT SEALANT
079200.E	WEEP TUBES
079200.F	CYLINDRICAL SEALANT BACKING
079500.A	FSNE - FLOOR TO WALL – CARPET
079500.A2	FS-150 - FLOOR TO FLOOR – CARPET
079500.B	VSGL – CEILING TO WALL EXPANSION JOINT
079500.C	VSWL – CORNER TO WALL DRYWALL FLANGE
079500.D	ESS – EXTERIOR SILICONE SEAL
081113.A	HOLLOW METAL FRAME
081113.B	HOLLOW METAL DOOR
081416.A	INTERIOR SOLID-CORE DOOR
081416.B	90 MINUTE FIRE RATED SOLID CORE WOOD DOOR
083113.A	CONCEALED ACCESS DOOR – ONE HOUR FIRE RATED
083113.B	FLUSH ACCESS PANEL
083323.A	INSULATED OVERHEAD COILING SERVICE DOOR
083613.A	INSULATED SECTIONAL OVERHEAD DOOR
084113.A	ALUMINUM STOREFRONT SYSTEM
084113.A2	ALUMINUM FRAME
084113.B	ALUMINUM ENTRANCE DOOR
084113.C	INTERIOR ALUMINUM STOREFRONT FRAMING
084113.C2	OUTSIDE CORNER MULLION
084413.A	GLAZED ALUMINUM CURTAINWALL 5600 DURACAST SYSTEM
084413.A2	GLAZED ALUMINUM CURTAINWALL 5600 SSG SYSTEM
084413.B	GLAZED ALUMINUM “WINDOW WALL” 5500 CAPTURED SYSTEM
084413.B2	GLAZED ALUMINUM “WINDOW WALL”5500 SSG SYSTEM
084413.C	CURTAINWALL CONNECTIONS TO SUPERSTRUCTURE BY CURTAINWALL MANUFACTURER
084413.D	4 1/2” EXTENSION MULLION CAP
084413.E	CURTAINWALL HEAD RECEPTOR
084413.F	PRE-FINISHED CURTAINWALL BASE TRIM - 2 PIECE SLIP JOINT, CONCEALED FASTENERS
084413.G	PRE-FINISHED CURTAINWALL BASE TRIM - CONCEALED FASTENERS
084413.H	PRE-FINISHED END CAP - 1/8” ALUMINUM BAR STOCK – PAINT UNFINISHED EDGES IN FIELD - COUNTERSINK SCREWS, PAINT IN FIELD
084413.J	PRE-FINISHED ALUMINUM TRIM – CONCEALED FASTENERS
084413.K	STRUCTURAL SILICONE
085113.A	ALUMINUM WINDOW – 3 ½” FRAME DEPTH (CLERESTORYS) WITH LOW E, TINTED INSULATING GLASS UNITS – LOW LIGHT TRANSMITTANCE
085113.B	ALUMINUM WINDOW – 4 ½” FRAME DEPTH WITH LOW E INSULATING GLASS UNITS
085113.C	ALUMINUM BREAK METAL TRIM FORMED TO CONFIGUARTION INDICATED
087100.A	PUSH PAD FOR DOOR OPERATOR
087100.B	CARD READER
087100.C	BARN DOOR HARDWARE SET
088000.A	LOW E INSULATING GLASS UNITS
088000.B	LOW E INSULATING SPANDREL GLAZING (TRANSLUCENT)
088000.B2	LOW E INSULATING SPANDREL GLAZING (OPAQUE)
088000.C	HEAT STRENGTHENED FLOAT GLASS
088000.C2	FLOAT GLASS – PROVIDE FULLY TEMPERED AT LOCATIONS IDENTIFIED WITH “FT” AND WHERE REQUIRED BY CODE
088000.D	120 MIN FIRE-RATED SAFETY GLAZING
088000.E	90 MIN FIRE RATED ASSEMBLY
088300.A	SILVERED FLAT GLASS MIRROR – SURFACE TO BE FLUSH WITH ADJACENT TILE
089000.A	PRE-FINISHED, EXTRUDED ALUMINUM, DRAINABLE, STATIONARY LOUVER
089000.A2	PRE-FINISHED ALUMINUM SILL
092116.A	ONE HOUR FIRE RATED VERTICAL GYPSUM BOARD SHAFTWALL ASSEMBLY
092116.A2	TWO HOUR FIRE RATED VERTICAL GYPSUM BOARD SHAFTWALL ASSEMBLY
092116.B	ONE HOUR FIRE RATED HORIZONTAL GYPSUM BOARD SHAFTWALL ASSEMBLY
092116.B2	TWO HOUR FIRE RATED HORIZONTAL GYPSUM BOARD SHAFTWALL ASSEMBLY
092116.C	6” C-H STUD
092116.C2	4” C-H STUD
092116.D	6” J-RUNNER
092116.D2	4” J-RUNNER
092216.A	3 5/8” METAL STUDS @ 16” O.C.
092216.A2	3 5/8” METAL DEFLECTION TRACK
092216.B	6” METAL STUDS @ 16” O.C.
092216.B2	6” METAL DEFLECTION TRACK
092216.B3	6” METAL STUD BOX HEADER
092216.C	KINETICS ISOMAX RESILIENT SOUND ISOLATION WALL CLIP @ 16” O.C. EACH WAY
092216.D	GRID SUSPENSION SYSTEM FOR GYPSUM BOARD CEILINGS
092216.E	1 5/8” METAL STUDS @ 16” O.C.
092216.F	7/8” FURRING CHANNELS @ 16” O.C.
092401.A	DIRECT APPLIED EXTERIOR FINISH SOFFIT
092401.B	ALUMINUM TRIM UNIT
092900.A	5/8” TYPE X GYPSUM WALLBOARD
092900.A2	5/8” TYPE X GLASS MAT WATER-RESISTANT BACKING BOARD
092900.B	METAL TRIM
092900.B2	METAL CONTROL JOINT
092900.C	SOUND ATTENUATION BLANKETS
092900.D	“F” REVEAL MOLDING TRIM
092900.E	1” Z REVEAL MOLDING TRIM
092900.F	
092900.G	
093000.A	12 X 24 PORCELAIN PAVER TILE
093000.A2	CT-3, 12 X 24 PORCELAIN PAVER TILE, CHENILE
093000.A3	CT-4, 12 X 24 PORCELAIN PAVER TILE, CREME
093000.A4	CT-7, 12 X 24 PORCELAIN PAVER TILE, GRIS
093000.A5	CT-8, 12 X 24 PORCELAIN PAVER TILE, SAUGE
093000.A6	CT-9, 6 X 24 PORCELAIN PAVER TILE, SAUGE
093000.B	1 X 2 PORCELAIN MOSAIC TILE
093000.B2	CT-1, 1” X 2” CHENILE
093000.B3	CT-2, 1” X 2” CREME
093000.B4	CT-5, 1” X 2” GRIS
093000.B5	CT-6, 1” X 2” SAUGE
093000.C	6” X 6” CERAMIC WALL TILE
093000.D	CT-10, 6” X 12” PORCELAIN COVE BASE, COLOR TO MATCH ADJACENT FLOOR
093000.E	METAL STAIR NOSING
095113.A	ACOUSTICAL PANEL CEILING SYSTEM
095113.A2	LARGE FORMAT ACOUSTICAL PANEL CEILING SYSTEM
095113.A3	LARGE FORMAT ACOUSTICAL PANEL CEILING SYSTEM – 4’ X 5’ TILES
095113.B	EXTRUDED ALUMINUM EDGE MOLDING 2 1/4” STANDARD PROFILE
095113.B2	EXTRUDED ALUMINUM EDGE MOLDING 4” STANDARD PROFILE
096513.A	4” RESILIENT WALL BASE
096513.A2	6” RESILIENT VINYL WALL BASE
096513.B	RESILIENT MOLDING ACCESSORY
096513.B2	STAIR NOSING TRANSITION
096516.A	RESILIENT SHEET FLOORING
096516.B	RESILIENT STAIR TREAD
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XXXXXX	TBD?

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4H Renovation & NIC Building

Nebraska NOVA
Former State Fair Park
Lincoln, NE

Bid Package # 2

(RE-ISSUED 11/09/2012 ADDENDUM #1)

Issue Date: ~~October10/29/2012~~

SHA Project No. 11053

Site Staging - Master Plan
1" = 200'-0"

Vicinity Map

Professional Seals

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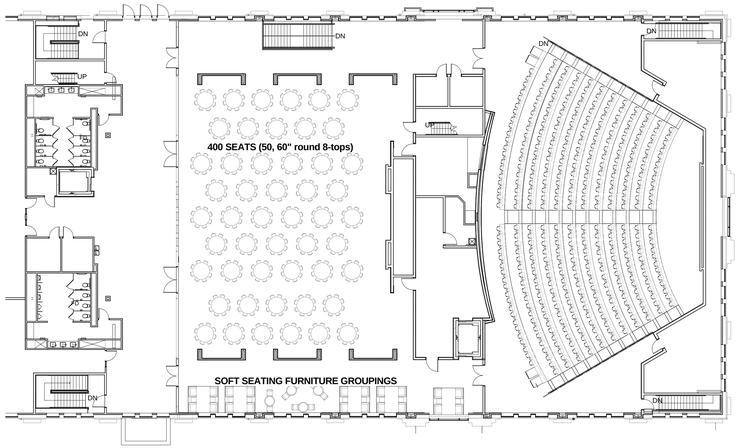
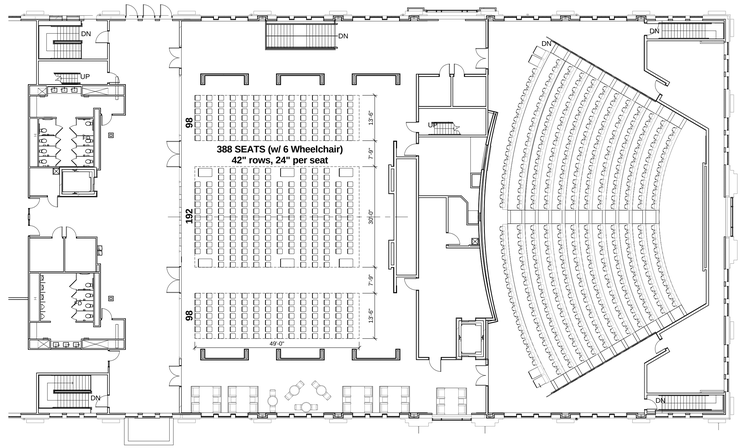


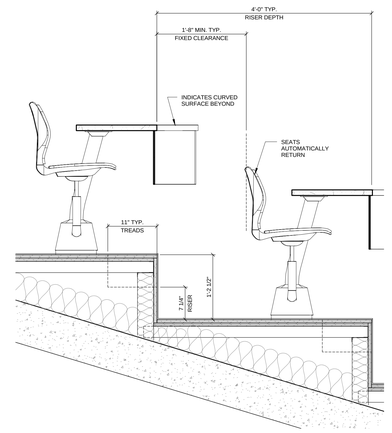
L1 ASSEMBLY SEATING - LAYOUT A

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



L8 ASSEMBLY SEATING - LAYOUT B

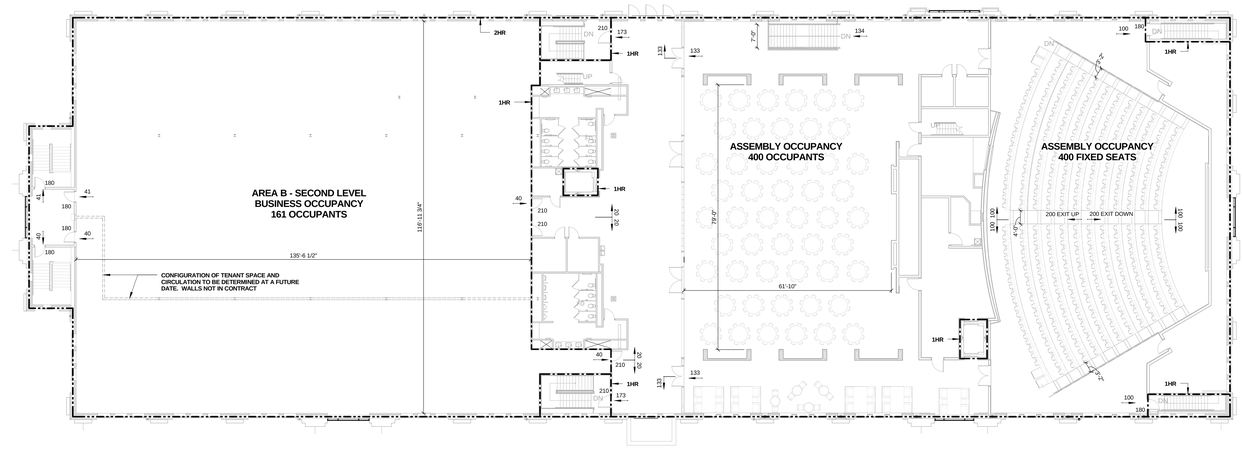
SCALE: 1/16" = 1'-0"



L15 AUDITORIUM FIXED SEAT SPACING

SCALE: 1" = 1'-0" TYPICAL ROW SHOWN

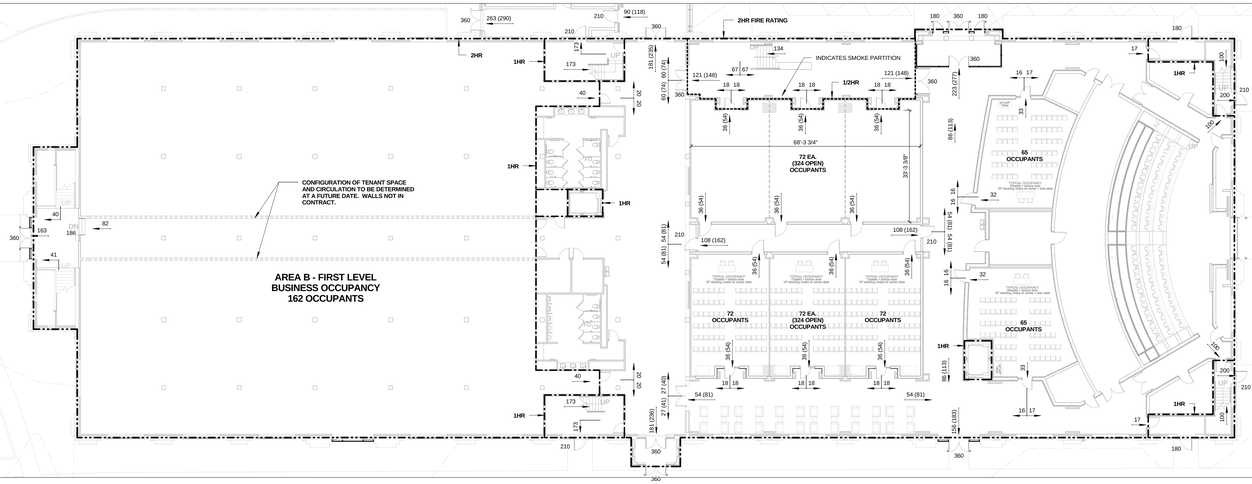
2HR FIRE RATING
1HR FIRE RATING
1/2HR FIRE RATING



F1 SECOND LEVEL CODE PLAN

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

2HR FIRE RATING
1HR FIRE RATING
1/2HR FIRE RATING



A1 FIRST LEVEL CODE PLAN

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

2009 IBC
Non-Structural Building Code Information

USE AND OCCUPANCY CLASSIFICATION - CHAPTER 3

OCCUPANCY CLASSIFICATION

NIC Office Building	**Group B (SEE SHEET G102)**
4H Renovation	**Group A3 & B**

CONSTRUCTION TYPE:

NIC Office Building	**TYPE II-B**
4H Renovation	**TYPE III-B**

GENERAL BUILDING HEIGHTS AND AREAS - CHAPTER 5

ALLOWABLE FLOOR AREA (Table 503) OCCUPANCY CLASSIFICATION	A-3	B
ACTUAL BUILDING AREA (NOT INCLUDING BASEMENT)	**24,720 sf**	**15,912 sf**
CONSTRUCTION TYPE	III-B	III-B
TABULAR ALLOWABLE AREA - At' (Table 503)	9,500 sf	19,000 sf
FRONTAGE INCREASE - If' (506.2)		
Perimeter which fronts open space - 'F'	894 ft	894 ft
Perimeter of entire building - 'P'	961 ft	961 ft
Minimum width of open space - 'W'	30 ft	30
Frontage increase percentage by Equation 5-2	.68%	.68%
AUTO SPRINKLER INCREASE	**200%**	**200%**
ALLOWABLE AREA per floor Equation 5-1 (sec. 506.1)	**34,963 sf**	**69,925 sf**
ALLOWABLE AREA total Equation 5-1 (sec. 506.1)	**69,925 sf**	**139,851 sf**

SEPARATED OCCUPANCIES (Table 508.4)
ALLOWABLE BUILDING AREA $\frac{24{,}720}{34{,}963} + \frac{15{,}912}{69{,}925} = .94 < 1$

REQUIREMENTS BASED ON TYPES OF CONSTRUCTION - CHAPTER 6

FIRE RESISTIVE REQUIREMENTS (Table 601)

4H Building Construction Type	III-B
STRUCTURAL FRAME	0
EXTERIOR BEARING WALLS	2
INTERIOR BEARING WALLS	0
EXTERIOR NON-BEARING WALLS	0
INTERIOR NON-BEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

FIRE PROTECTION SYSTEMS - CHAPTER 9

4H BUILDING IS FULLY SPRINKLERED THROUGHOUT IN ACCORDANCE WITH SECTION 903

ACCESSABILITY - CHAPTER 11

PARKING AND PASSENGER LOADING FACILITIES (Table 1106.1)

# SPACES PROVIDED	65
REQUIRED MINIMUM # OF ACCESSIBLE SPACES	3

OCCUPANT LOAD AREAS (IBC 2009 SECTION 1004) TO CALCULATE PLUMBING FIXTURES (UPC 2009)

	LEVEL 1	LEVEL 2
BUSINESS GSF*	16145	16097
ASSEMBLY (POSTED)	525	525

OCCUPANT LOAD (IBC 2009 SECTION 1004)

	LEVEL 1			LEVEL 2		
	AREA	LOAD FACTOR (TABLE 1004.1.1)	OCC. LOAD	AREA	LOAD FACTOR (TABLE 1004.1.1)	OCC. LOAD
BUSINESS GSF	16145	100	**161.45**	16097	100	**160.97**
ASSEMBLY (POSTED)	525	FIXED	**525**	525	FIXED	**525**

TOTAL BUILDING OCCUPANT LOAD (BUSINESS)	**323**
TOTAL BUILDING OCCUPANT LOAD (ASSEMBLY)	**1050**

FIXTURE COUNTS - UNIFORM PLUMBING CODE 2009

Calculated Occupant Load (IBC 2009)	50/50 split of Male and Female Load	Type of Building or Occupancy	Fixtures Per Person Range	Water Closets		Urinals	Lavatories		Bath Tubs or Showers	Drinking Fountains
				Male	Female	Male	Male	Female		
323	162	Retail or Wholesale Stores	101-200	2	4	2	1	2	n/a	2
1050	525	Assembly for pucic use	401-525	4	12	4	3	3	n/a	3
			Required	**6**	**16**	**6**	**4**	**5**		**5**

FIXTURES PER FLOOR (REQUIRED / (ACTUAL))

LEVEL 1				3 (4)	8 (8)	3 (4)	2 (3)	2.5 (3)	n/a	3 (4)
LEVEL 2				3 (4)	8 (8)	3 (4)	2 (3)	2.5 (3)	n/a	2 (2)
			Required/(Actual)	**6 (8)**	**16 (16)**	**6 (8)**	**4 (6)**	**5 (6)**		**5 (6)**

*Table 4-1 Note 13: Must be at least 1 drinking fountain per floor in an office building.

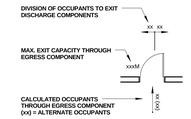
*Table 4-1 Note 3: For each urinal added in excess of the min. required, one water closet shall be permitted to be deducted. The number of water closets shall not be reduced to less than 2/3 of the min. requirement.

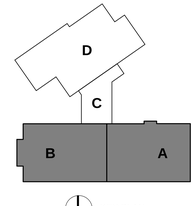
* Table 4-1 Note 14: The total number of water closets for females shall be equal to the total number of water closets and urinals required for males.

A15 CODE REVIEW SUMMARY

NO SCALE 4H BUILDING RENOVATION (SEE G102 FOR CODE REVIEW OF NEW NIC OFFICE BUILDING ADDITION)

EGRESS LEGEND





KEY PLAN

C:\REVIT files on C drive\11053-05_4H Bldg_2012_LeBlanc.rvt

REVISIONS	
ADDENDUM #1 - 11/09/12	

DESIGN ARCHITECT: NUP
ARCHITECT OF RECORD: CMB
DRAWN BY: CMB
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ISSUED: 10/29/2012

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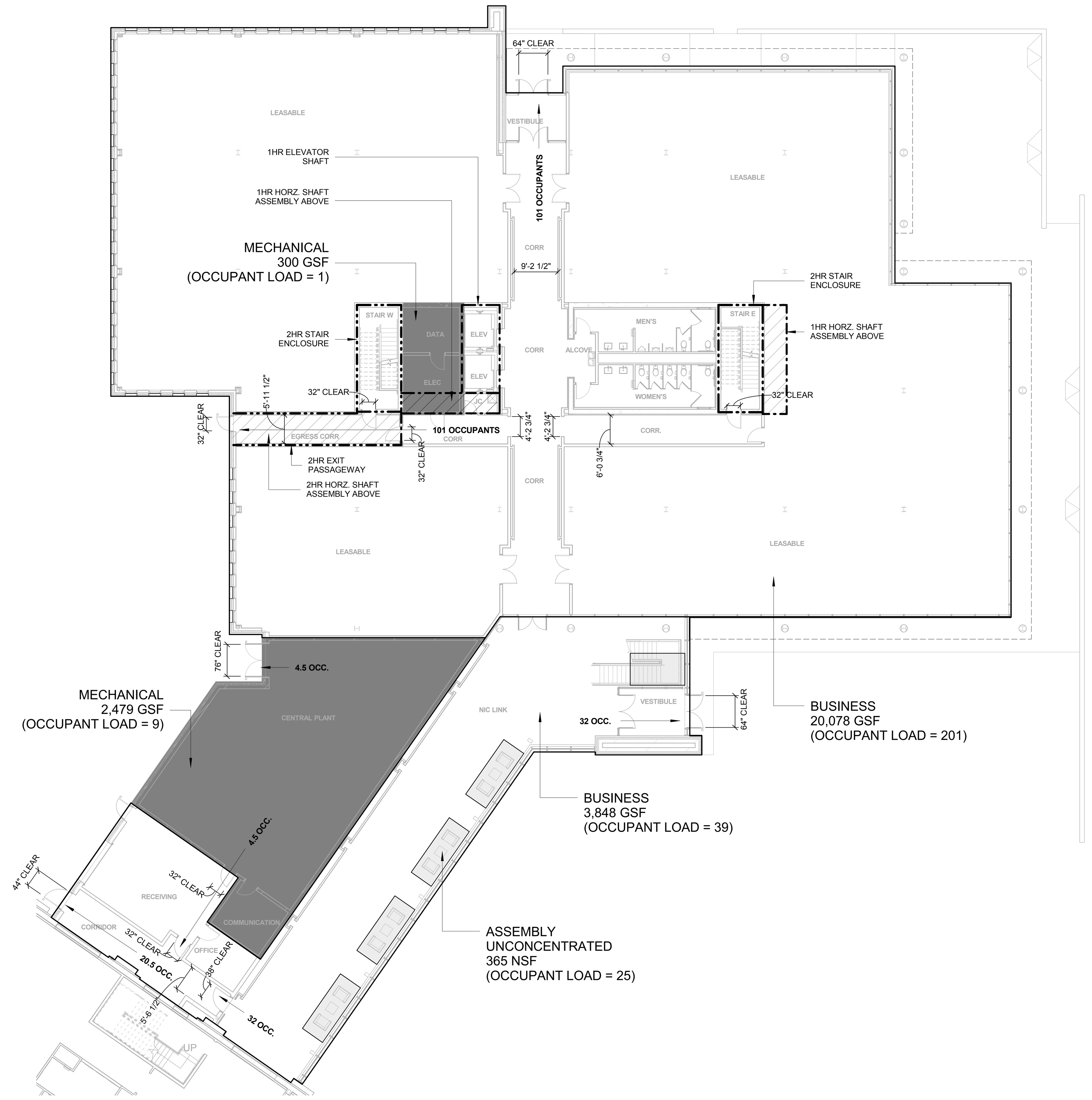
Code Review and Plans - 4H

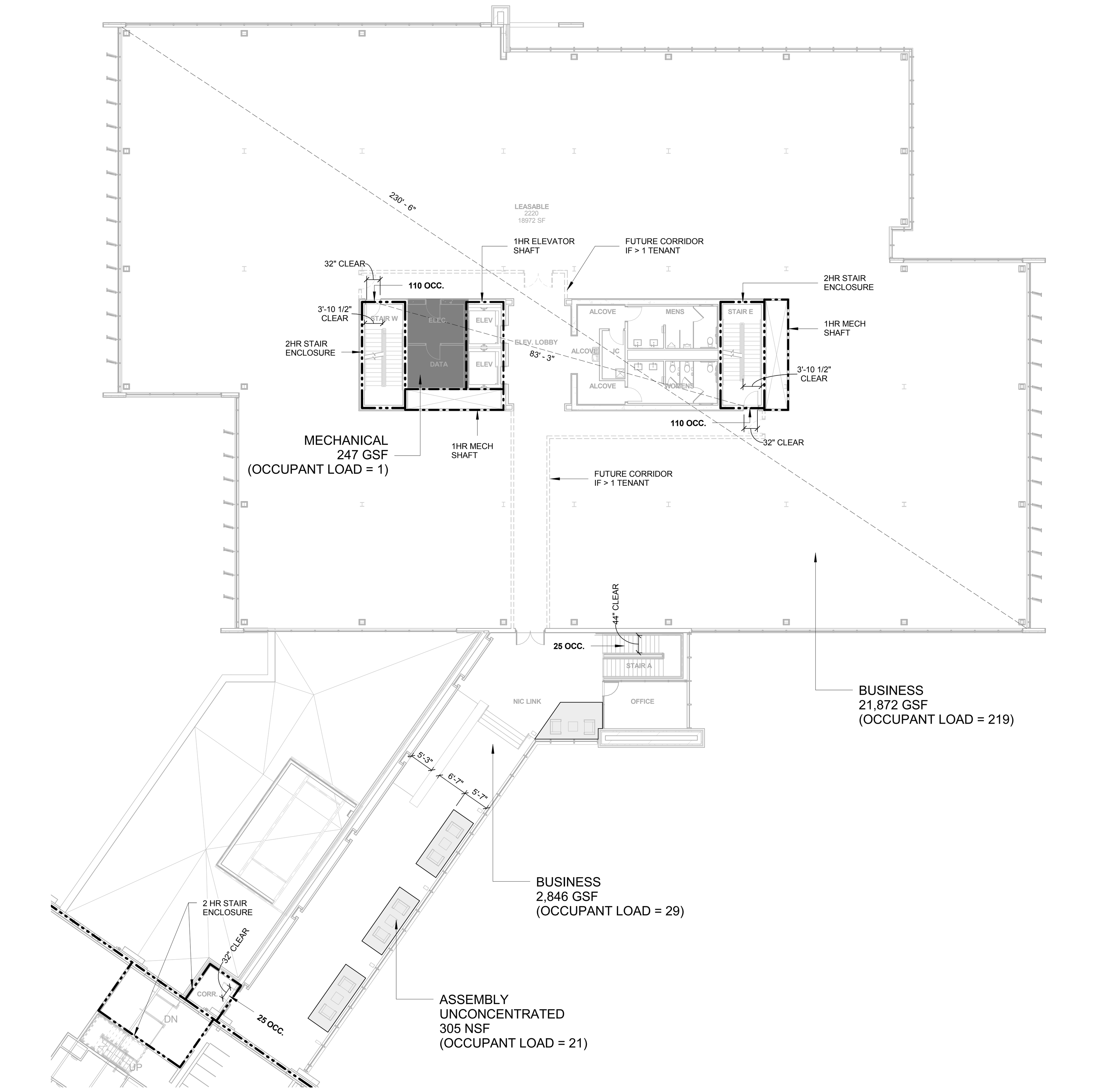
SHA PROJECT NO: 11053

G101



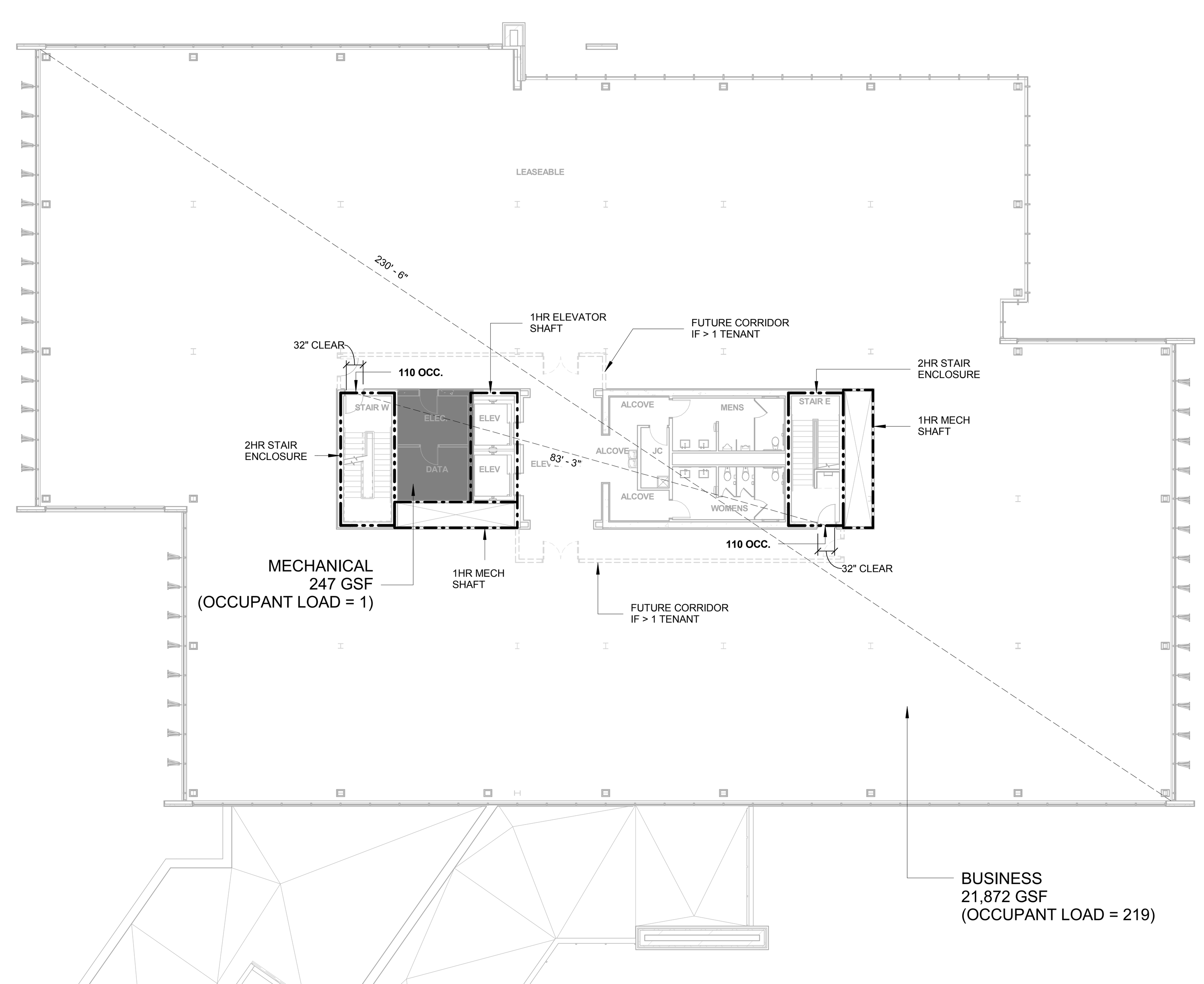
G1 MAIN LEVEL CODE PLAN

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



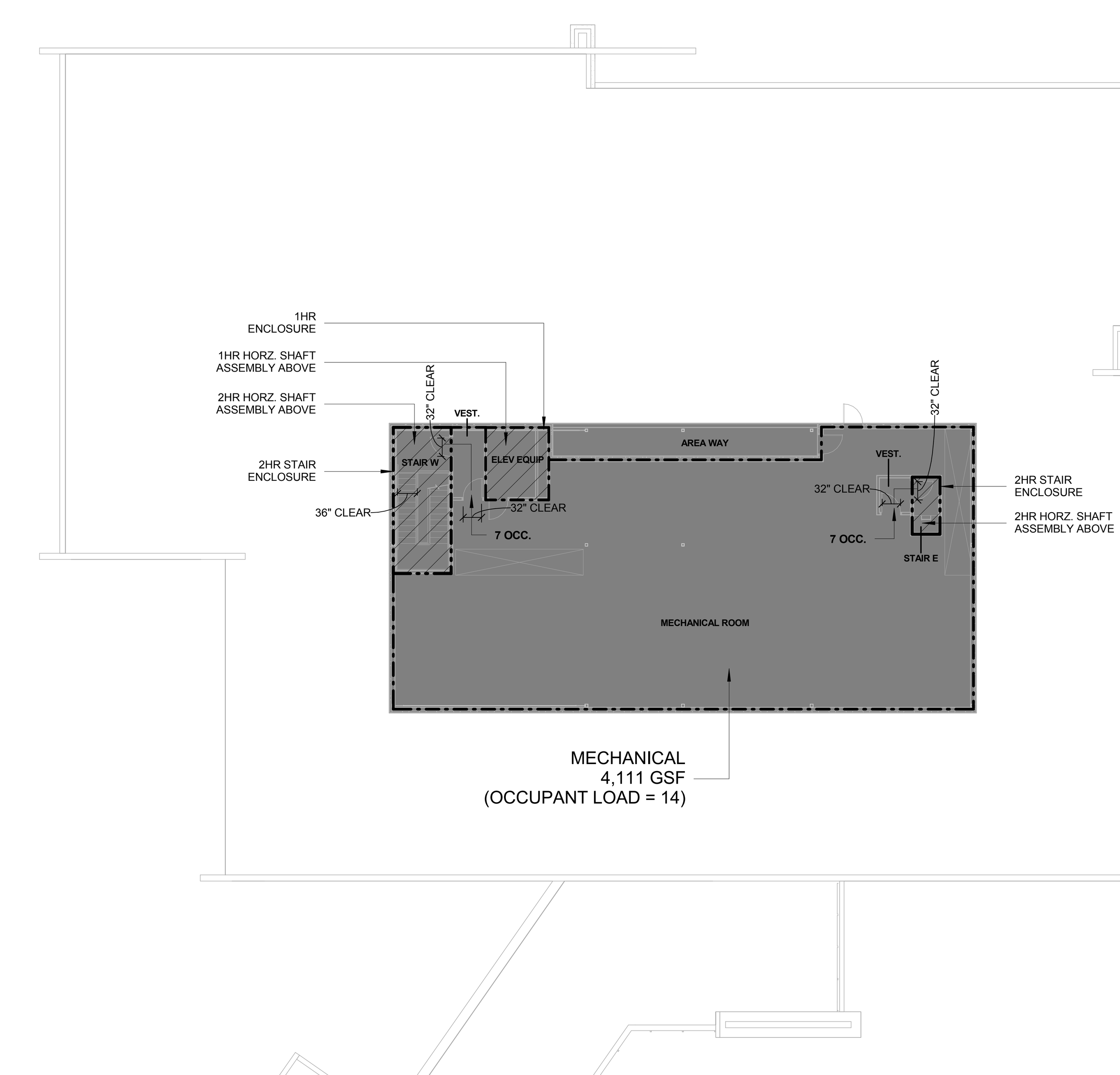
G8 SECOND LEVEL CODE PLAN

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



A1 THIRD LEVEL CODE PLAN

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



A8 PENTHOUSE CODE PLAN

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

LIFE SAFETY

USE AND OCCUPANCY CLASSIFICATION

OCCUPANCY CLASSIFICATION
Business Occupancy

CONSTRUCTION TYPE:
Type IIB - Fully Sprinkled

GENERAL BUILDING HEIGHTS AND AREAS

ALLOWABLE FLOOR AREA (Table 503)

OCCUPANCY CLASSIFICATION	B
ACTUAL BUILDING AREA (NOT INCLUDING BASEMENT OR PENTHOUSE)	**75,735 SF**
CONSTRUCTION TYPE	IIB
TABULAR ALLOWABLE AREA - A't' (Table 503)	23,000 SF
FRONTAGE INCREASE - I'f' (506.2)	
Perimeter which fronts open space - 'F'	793'
Perimeter of entire building - 'P'	858'
Minimum width of open space - 'W'	30'
Frontage increase percentage by Equation 5-2	67%
AUTO SPRINKLER INCREASE	**200%**
ALLOWABLE AREA per floor Equation 5-1 (sec. 506.1)	**84,410 sf**
ALLOWABLE AREA total Equation 5-1 (sec. 506.1)	**337,640 sf**

BUILDING HEIGHT (Table 503)

ACTUAL BUILDING HEIGHT (FROM GROUND PLANE, DOES NOT INCLUDE ROOF TOP STRUCTURES)	46' - 6"
CONSTRUCTION TYPE	IIB
ALLOWABLE HEIGHT IN FEET	55
FIRE SPRINKLER INCREASE (504.2)	20
MAXIMUM HEIGHT IN FEET	**75**
ALLOWABLE STORIES	3
FIRE SPRINKLER INCREASE (504.2)	1
TOTAL ALLOWABLE STORIES	**4**

REQUIREMENTS BASED ON TYPES OF CONSTRUCTION

FIRE RESISTIVE REQUIREMENTS (Table 601)

STRUCTURAL FRAME	0
EXTERIOR BEARING WALLS	0
INTERIOR BEARING WALLS	0
EXTERIOR NON-BEARING WALLS	0
INTERIOR NON-BEARING WALLS	0
FLOOR CONSTRUCTION	0
ROOF CONSTRUCTION	0

FIRE RESISTANCE EXTERIOR WALLS (Table 602)

FIRE SEPARATION IS GREATER THAN 30 FT	0

FIRE PROTECTION SYSTEMS

BUILDING IS FULLY SPRINKLERED

REQUIREMENTS BASED ON MEANS OF EGRESS

OCCUPANT LOADS (Section 1004) - REFER TO CODE PLANS

STAIR - MINIMUM REQUIRED EGRESS WIDTH (Section 1005)

LEVEL	OCCUPANT LOAD	REQ'D STAIR WIDTH = Occ. Load X 0.3 (Section 1005.1)	MIN. REQ'D CLEAR WIDTH 44"
Main Level	N/A	N/A	44"
Second Level	110	33"	44"
Third Level	110	33"	44"

OTHER COMPONENTS - MINIMUM REQUIRED EGRESS WIDTH (Section 1005)

LEVEL	OCCUPANT LOAD	REQ'D WIDTH OTHER EGRESS COMPONENTS = Occ. Load X 0.2 (Section 1005.1)	MIN. REQ'D CLEAR WIDTH (32" DOORS, 44" CORRIDORS)
Main Level	101	20.2"	32"/44"
Main Level Link	32	6.4"	32"/44"
Second Level	110	22"	32"/44"
Second Level Link	25	5"	32"/44"
Third Level	110	22"	32"/44"

FIRE RESISTANCE RATINGS

CORRIDORS (Table 1018.1)	0
EXIT ENCLOSURES (Section 1022) 4 stories	2
ELEVATOR MACHINE ROOM (Section 3006.4)	1
ELEVATOR SHAFT ENCLOSURE (Section 708) < 4 stories	1
MECHANICAL SHAFT ENCLOSURE (Section 708) 4 stories	1

PLUMBING

OCCUPANT LOAD FOR PLUMBING FIXTURE COUNT

* AREA DOES NOT INCLUDE CORE ELEMENTS, CORRIDORS, OR AREA C (LINK).

	LEVEL 1			LEVEL 2			LEVEL 3		
	AREA	LOAD FACTOR (TABLE 1004.1.1)	OCC. LOAD	AREA	LOAD FACTOR (TABLE 1004.1.1)	OCC. LOAD	AREA	LOAD FACTOR (TABLE 1004.1.1)	OCC. LOAD
BUSINESS GSF	17131	100	**171.31**	18972	100	**189.72**	18972	100	**189.72**

TOTAL BUILDING OCCUPANT LOAD	551

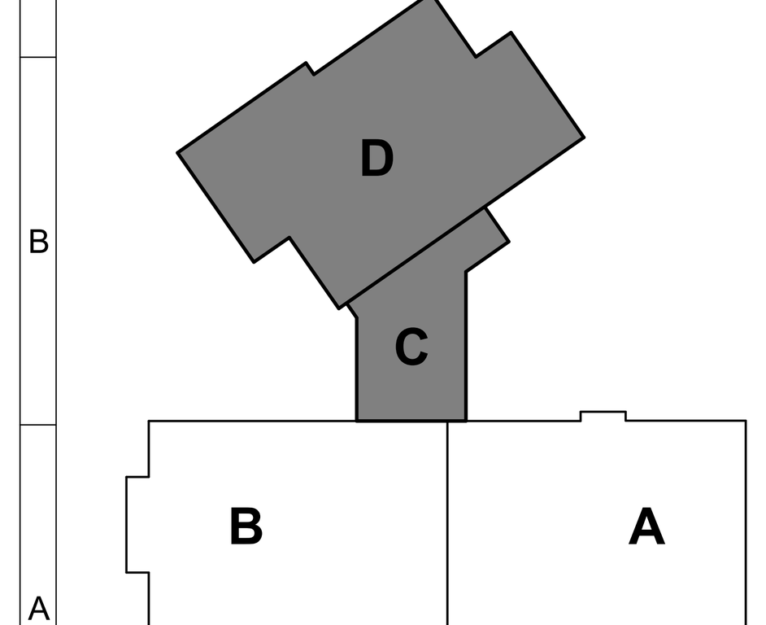
REQUIRED FIXTURE COUNTS - UNIFORM PLUMBING CODE 2009

Calculated Occupant Load (IBC 2009)	50/50 split of Male and Female Load	Type of Building or Occupancy	Water Closets (Fixtures per Person)		Urinals (Fixtures per Person)	Lavatories (Fixtures per Person)		Bath Tubs or Showers (Fixtures per Person)	Drinking Fountains (per person)
			Male	Female	Male	Male	Female		
551	275.50	Retail or Wholesale Stores	3	8	3	2	4	0	4
Level 1			1	3	1	1	2		2
Level 2			1	3	1	1	1		1
Level 3			1	2	1	1	1		1

*Table 4-1 Note 13: Must be at least 1 drinking fountain per floor in an office building.

*Table 4-1 Note 3: For each urinal added in excess of the min. required, one water closet shall be permitted to be deducted. The number of water closets shall not be reduced to less than 2/3 of the min. requirement.

* Table 4-1 Note 14: The total number of water closets for females shall be equal to the total number of water closets and urinals required for males.



KEY PLAN

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REVISIONS:
ADDENDUM #1 - 11/09/12

DESIGN ARCHITECT:
PROJECT ARCHITECT:
DRAWN BY: JAR
ISSUED: 10/29/12

This document originally issued and sealed by:
Christopher M. Beardslee
Registered Architect
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On: **November 09, 2012**
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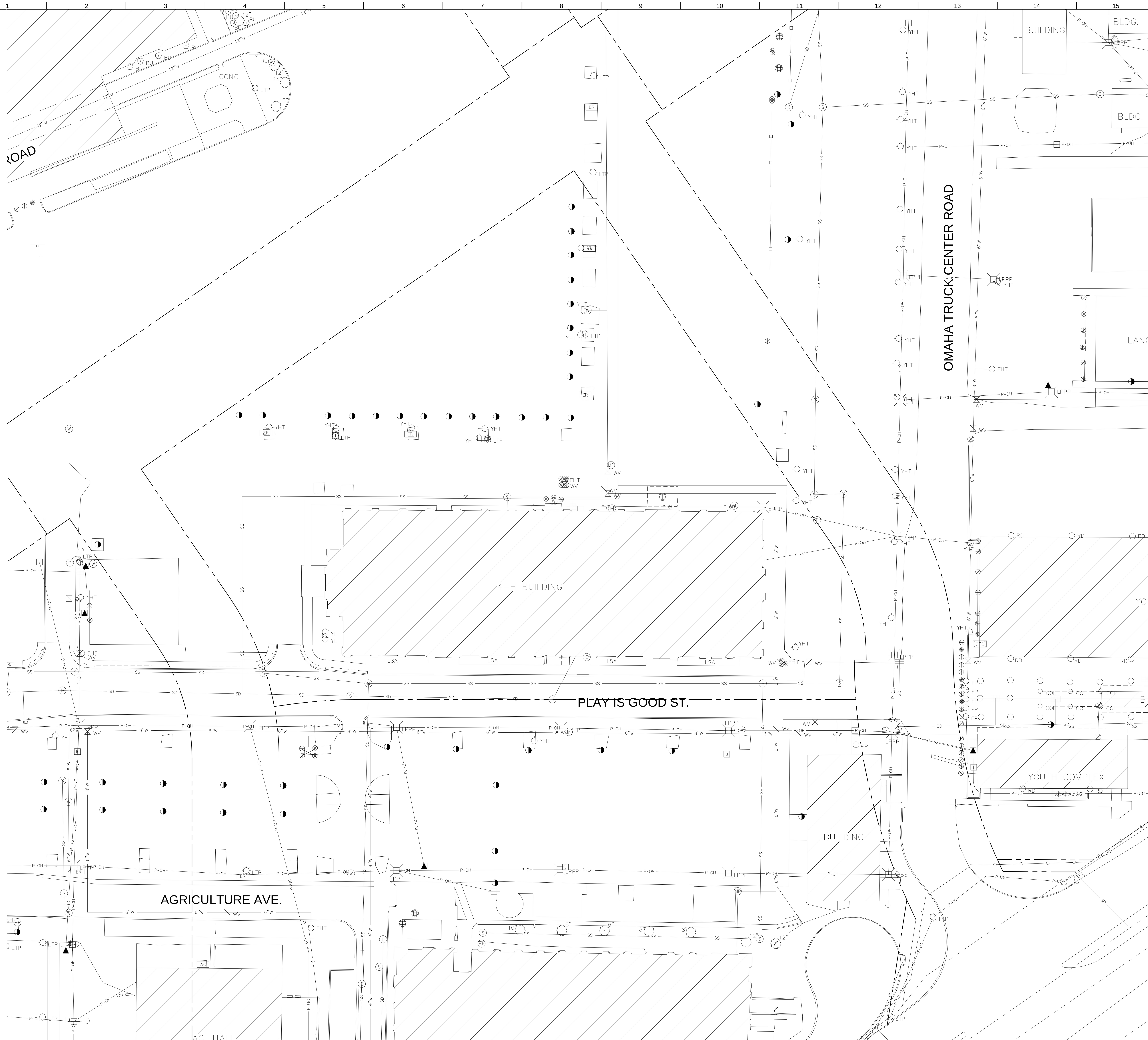
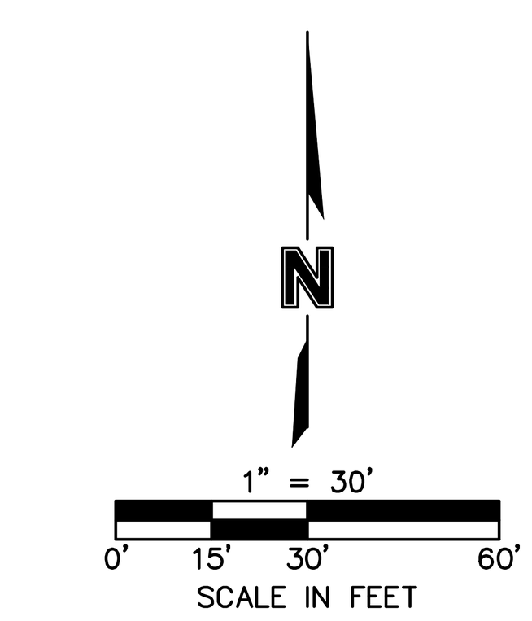
Code Review and Plans

SHA PROJECT NO. 11053

G102





EXISTING LIGHT POLE
EXISTING POWER POLE
EXISTING LIGHT POLE/POWER POLE
EXISTING SERVICE POST INDICATOR VALVE
EXISTING FIRE HYDRANT
EXISTING STORM SEWER OUTLET
EXISTING STORM SEWER MANHOLE
EXISTING STORM SEWER INLET
EXISTING SANITARY SEWER MANHOLE
EXISTING BUILDING TO REMAIN
EXISTING PROPERTY LINE
EXISTING RAILROAD TRACKS
EXISTING ROADWAY BACK OF CURB
EXISTING FENCE LINE
EXISTING UNDERGROUND POWER
EXISTING OVERHEAD POWER
EXISTING STORM SEWER
EXISTING WATER MAIN
EXISTING SANITARY SEWER MAIN

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DATE: Nov 09, 2012 9:54am XREFS: 0110407_XBASE 0110407_PBASE AS100-Architectural 111361_TB

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TOPOGRAPHY PLAN

SHA PROJECT NO. 11053

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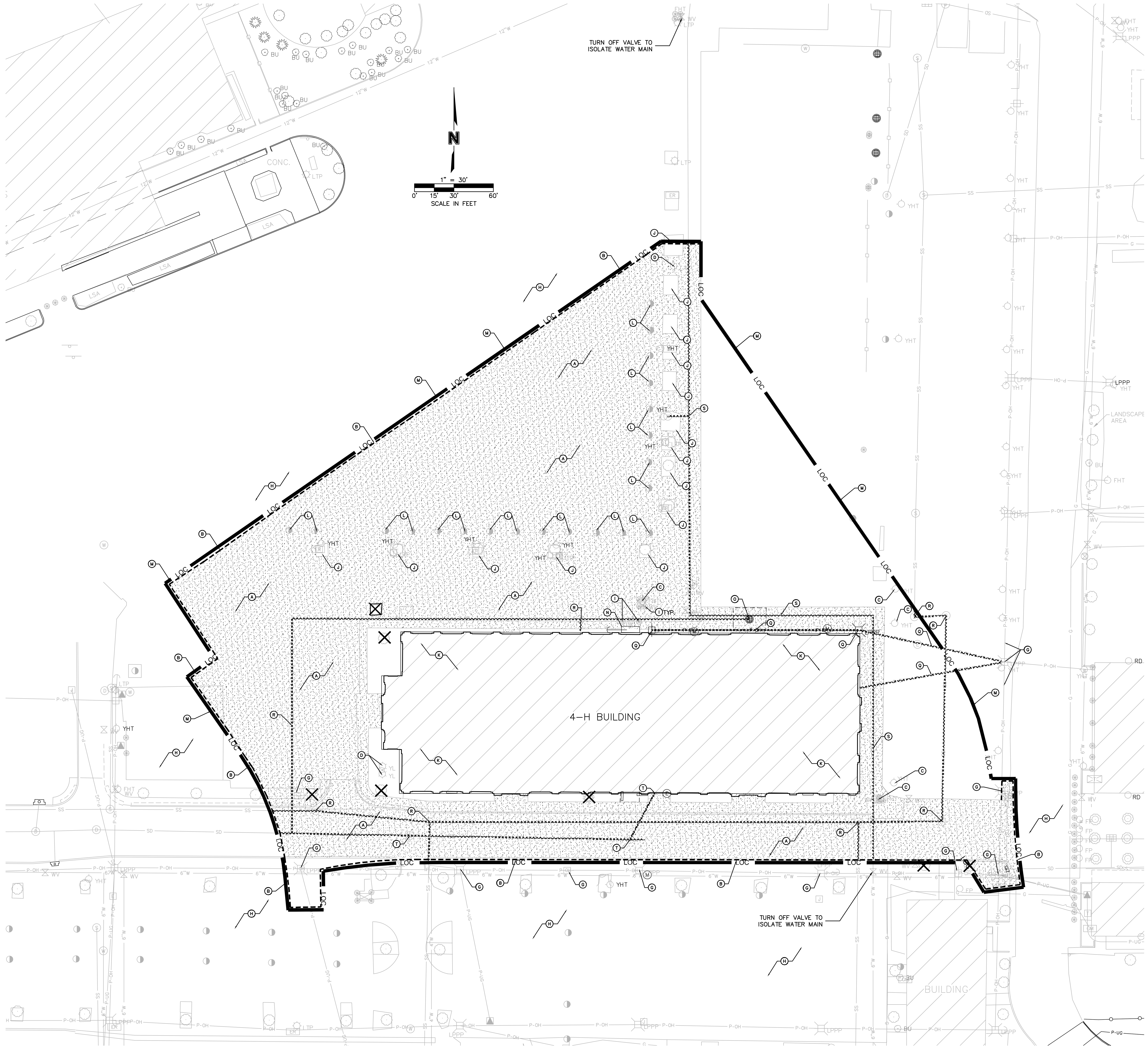

DEMOLITION PLAN NOTES

1. PRIOR TO DEMOLITION OCCURRING, EROSION CONTROL DEVICES ARE TO BE INSTALLED. EROSION CONTROL DEVICES WILL BE ADJUSTED AS DEMOLITION AND CONSTRUCTION PROCEEDS.
2. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A MANNER APPROVED BY ALL GOVERNING AUTHORITIES, FOR ALL STRUCTURES, PADS, WALLS, PANS, FOUNDATIONS, PAVEMENT, UTILITIES, ETC. TO BE DEMOLISHED, SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE GRADE AND BROUGHT UP TO PROPOSED GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
4. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS AND TO THE BEST OF OUR KNOWLEDGE CONSTITUTES ALL KNOWN FACILITIES. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT DIGGERS HOTLINE OF NEBRASKA AT 1–800–331–5666 IN ADVANCE OF ANY EXCAVATION FOR THE MARK–OUT OF THE LOCATION OF UTILITIES AND NOTIFICATION OF COMMENCEMENT OF WORK.
5. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
6. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
7. ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED OR RELOCATED SHALL BE COORDINATED WITH THE AFFECTED UTILITY COMPANY. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE. CONTRACTOR SHALL PAY CLOSE ATTENTION TO EXISTING UTILITIES WITHIN ANY ROAD RIGHT OF WAY DURING CONSTRUCTION.
8. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES USING MEANS OF THEIR CHOICE.
9. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE ANY EXISTING IMPROVEMENTS TO REMAIN, THEN THE CONTRACTOR SHALL RESTORE TO EQUIVALENT CONDITIONS AT HIS OWN COST.

DEMO LEGEND

- (A) REMOVE AND DISPOSE PAVEMENT, COMPLETE (INCLUDING ALL SIDEWALKS, PARKING LOTS AND ROADWAYS)
- (B) SAWCUT EXISTING PAVEMENT
- (C) REMOVE EXISTING HYDRANT, COMPLETE
- (D) REMOVE AND DISPOSE LIGHT POLE, COMPLETE
- (E) PROTECT LIGHT POLE, IN PLACE
- (F) REMOVE AND DISPOSE TREE/BUSH/STUMP, COMPLETE
- (G) PROTECT OVERHEAD POWER, IN PLACE. CONTRACTOR TO LOCATE EXISTING POWER UTILITIES AND PROTECT DURING GRADING OPERATIONS.
- (H) PROTECT EXISTING PAVEMENT
- (I) REMOVE BOLLARD, COMPLETE
- (J) REMOVE PARKING LOT ISLAND, COMPLETE (INCLUDING BUT NOT LIMITED TO: TREES, LANDSCAPING, LIGHT POLES, UTILITY HOOK–UPS, CURBS AND PAVEMENT.)
- (K) PROTECT BUILDING, IN PLACE.
- (L) REMOVE EXISTING SEWER CLEANOUT AND ASSOCIATED UNDERGROUND PIPING.
- LOC (M) LIMITS OF DEMOLITION
- (N) REMOVE AND DISPOSE ELECTRICAL SWITCHGEAR
- (O) REMOVE UNDERGROUND VAULT, COMPLETE
- (P) REMOVE AND DISPOSE POWER POLE. COORDINATE WITH LES FOR DISCONNECT AND REMOVAL
- (Q) REMOVE AND DISPOSE OVERHEAD POWER LINES. COORDINATE WITH GENERAL CONTRACTOR FOR APPROVAL
- (R) REMOVE AND DISPOSE SANITARY SEWER LINES AND MANHOLES. COORDINATE WITH GENERAL CONTRACTOR FOR APPROVAL. INSTALL PLUG AND BLOCKING ON LINES TO REMAIN.
- (S) REMOVE AND DISPOSE WATER MAIN. COORDINATE WITH GENERAL CONTRACTOR FOR APPROVAL. INSTALL PLUG WITH BLOCKING ON LINES TO REMAIN.
- (T) REMOVE AND DISPOSE STORM SEWER LINES, MANHOLES AND INLETS. COORDINATE WITH GENERAL CONTRACTOR FOR APPROVAL. INSTALL CONCRETE PLUG ON LINES TO REMAIN.

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PROJECT ARCHITECT: CMB
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PROFESSIONAL CIVIL ENGINEER
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DEMOLITION PLAN

SHA PROJECT NO. 11053

C001

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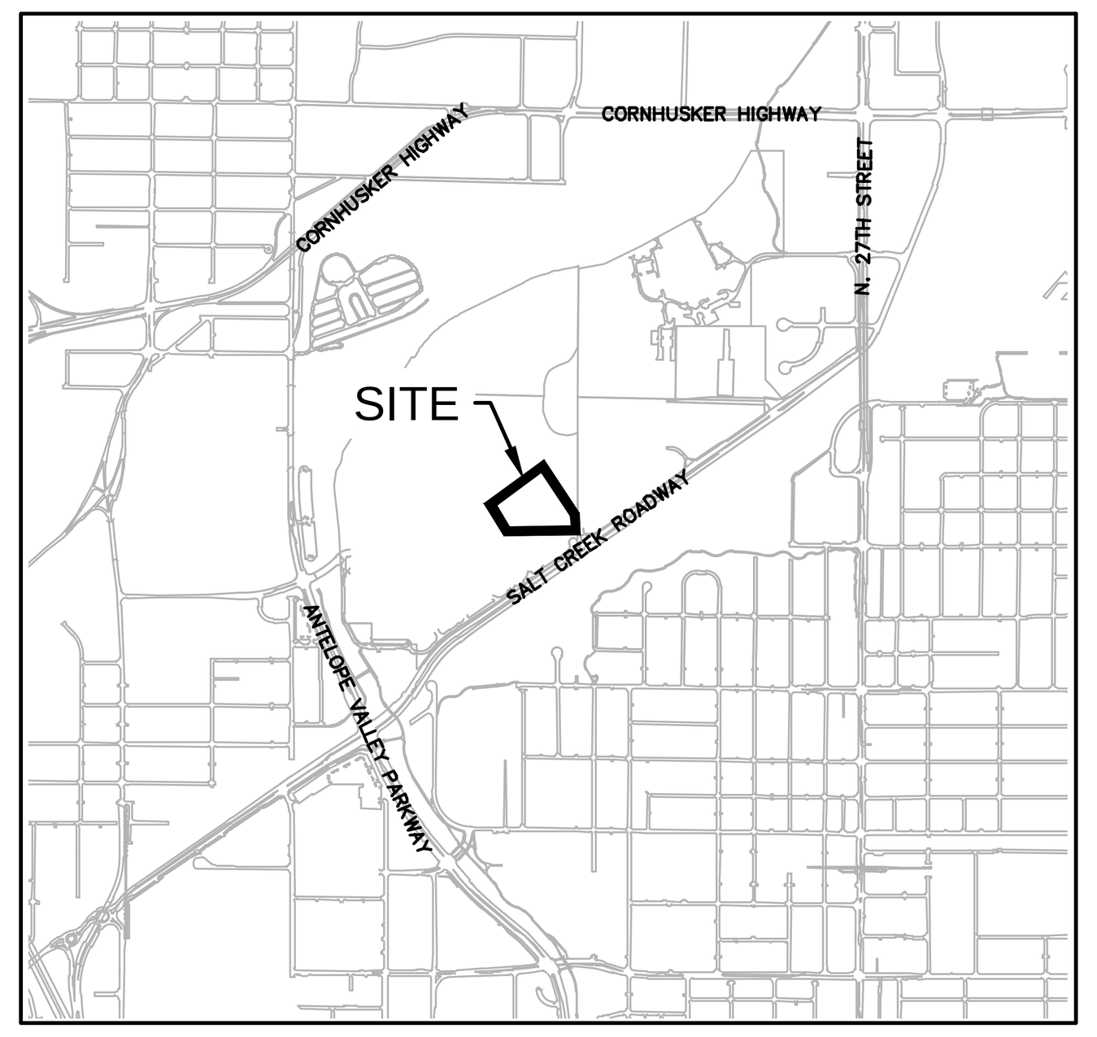

VICINITY MAP
NOT TO SCALE

UTILITY CONTACTS

LINCOLN WASTE WATER – (402)441–7711
LINCOLN ELECTRIC SYSTEM – (402)467–7623
BLACK HILLS ENERGY – (402)437–1715
WINDSTREAM COMMUNICATIONS – (402)436–5691
TIME WARNER – (402)421–0330
LINCOLN WATER SYSTEM – (402)441–7571

NOTE:
ALL DIMENSIONS ARE TO BACK OF CURB, EDGE OF PAVEMENT, CENTER OF STRIPING, OR FACE OF BRICK UNLESS OTHERWISE STATED.

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NATE BUSS, PE
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DEVELOPER

NEBRASKA NOVA
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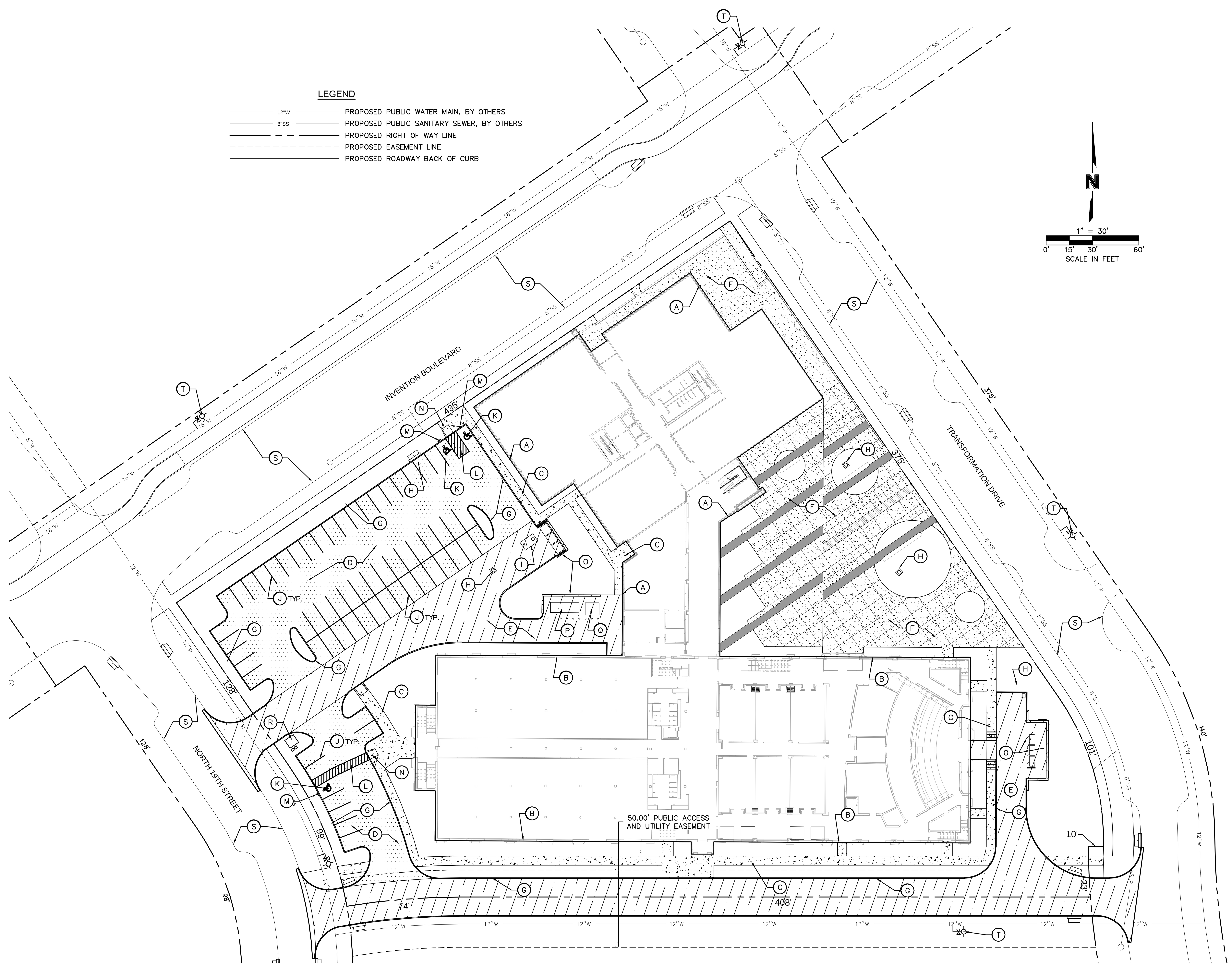
LINCOLN, NE 68508

LEGEND

12"W — PROPOSED PUBLIC WATER MAIN, BY OTHERS
8"SS — PROPOSED PUBLIC SANITARY SEWER, BY OTHERS
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT LINE
PROPOSED ROADWAY BACK OF CURB



CONTROL POINTS

PNT.	NORTHING	EASTING	ELEV.	DESC.
40	210730.78	171232.54		UNL EAST CAMPUS CP#5 STEEL ROD
	50058.05	60852.12		(UNL COORDINATES)
41	212540.51	169112.99		UNL EAST CAMPUS CP#19 STEEL ROD
	51867.39	58732.40		(UNL COORDINATES)
42	208011.37	159632.44		UNL CITY CAMPUS CP#5 STEEL ROD
	47337.66	49252.40		(UNL COORDINATES)
43	209326.24	160418.63		UNL CITY CAMPUS CP#10 STEEL ROD
	48652.62	50038.65		(UNL COORDINATES)
200	212998.30	163104.52		3/4" REBAR
201	213957.86	163299.39		3/4" REBAR
202	211783.80	160915.72		3/4" REBAR
203	211820.83	161383.91		3/4" REBAR
204	212246.89	161370.12		3/4" REBAR
205	211044.07	160354.41		3/4" REBAR

BENCHMARKS

1. CHISELED SQUARE IN NE. CORNER OF CONC. PAD FOR GAS PUMP VENT PIPES. S. OF SALT CREEK BRIDGE, W. SIDE OF N. 14TH STREET.
ELEV.=1150.55 (N.A.V.D. 1988)

2. CHISELED SQUARE ON TOP OF CURB, AT NW. CORNER OF BRIDGE AT W. ENTRANCE TO STATE FAIR GROUNDS.
ELEV.=1148.25 (N.A.V.D. 1988)

3. TAIL OF ARROW ON FIRE HYDRANT, S. OF SE. CORNER OF THE ICE BOX, COLISEUM, AT NE. CORNER OF HORSE BARN.
ELEV.=1150.16 (N.A.V.D. 1988)

4. CHISELED SQUARE ON E. END OF N. RETAINING WALL FOR NEW BRIDGE ON NEPARK.ORG ROAD.
ELEV.=1163.09 (N.A.V.D. 1988)

5. CHISELED SQUARE ON TOP OF CURB, E. ISLAND NOSE ON NEPARK.ORG ROAD AND RIVER ROAD.
ELEV.=1151.58 (N.A.V.D. 1988)

6. CHISELED SQUARE ON TOP OF CURB, AT END OF RETURN ON NEPARK.ORG ROAD AND JOURNAL STAR BLVD.
ELEV.=1141.57 (N.A.V.D. 1988)

7. CHISELED SQUARE ON TOP OF CURB, W. ISLAND NOSE ON NEPARK.ORG ROAD AND N. ANTELOPE VALLEY PARKWAY.
ELEV.=1145.61 (N.A.V.D. 1988)

8. CHISELED SQUARE ON TOP OF CURB, AT CENTER OF RETURN AT NE. CORNER OF STATE FAIR PARK DRIVE N., AND ??? W. SIDE OF OVERPASS.
ELEV.=1147.43 (N.A.V.D. 1988)

PROPOSED LEGAL DESCRIPTION

LOT 1, NEBRASKA INNOVATION CAMPUS ADDITION

SITE LEGEND

(A) LIMITS OF PROPOSED BUILDING
(B) LIMITS OF EXISTING BUILDING
(C) 4" THICK CONCRETE SIDEWALK
(D) PROPOSED LIGHT DUTY PAVEMENT
(E) PROPOSED HEAVY DUTY PAVEMENT
(F) PROPOSED PLAZA SIDEWALK, COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILS
(G) CONSTRUCT 24" CONCRETE CURB AND GUTTER, PER DETAIL ON SHEET C400.
(H) PROPOSED STORM SEWER INLET
(I) PROPOSED GREASE INTERCEPTOR, COORDINATE WITH BUILDING MECHANICAL PLANS FOR DETAILS
(J) 4" WHITE PARKING STRIPE
(K) HANDICAPPED MARKING, PER DETAIL ON SHEET C400.
(L) STRIPE AREA WITH 4" WHITE PAINT, 2' O.C. @ 45°.
(M) HANDICAPPED SIGN, PER DETAIL ON SHEET C400.
(N) HANDICAPPED RAMP
(O) PROPOSED SCREEN WALL, COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILS
(P) PROPOSED GENERATOR. COORDINATE WITH SITE ELECTRICAL PLAN
(Q) PROPOSED TRANSFORMER. COORDINATE WITH SITE ELECTRICAL PLAN
(R) PROPOSED LES SWITCH, COORDINATE WITH ELECTRICAL SITE PLAN FOR DETAILS
(S) PROPOSED PUBLIC ROADWAY, BY OTHERS
(T) PROPOSED FIRE HYDRANT, BY OTHERS

GENERAL NOTES

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
2. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REQUEST A FINAL WALK–THROUGH OF THE CONSTRUCTION SITE.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET (OR AVOIDED) BY WORK TO BE DONE SHALL BE CONFIRMED BY THE CONTRACTOR THROUGH FIELD EXPLORATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT TO THE DEVELOPER'S ENGINEER, CITY INSPECTOR, OR DEVELOPER'S ENGINEER FIELD REPRESENTATIVE ANY DISCREPANCIES BETWEEN HIS MEASUREMENTS AND THESE PLANS.
4. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE CONSTITUTES ALL KNOWN FACILITIES. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UNDERGROUND SERVICE ALERT @ 1–800–331–5666 IN ADVANCE OF ANY EXCAVATION FOR THE MARK–OUT OF THE LOCATION OF UTILITIES AND NOTIFICATION OF COMMENCEMENT OF WORK.
5. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLAN IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
6. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
7. THE CONTRACTOR SHALL USE CAUTION AROUND ANY EXISTING UTILITIES OR IMPROVEMENTS LOCATED ON SITE. HE SHALL BE RESPONSIBLE FOR THE REPAIRS OF SUCH STRUCTURES WHEN BROKEN OR OTHERWISE DAMAGED BY THE NEW CONSTRUCTION.
8. ALL SPOIL MATERIAL SHALL BE REMOVED FROM THE SITE, UTILITY EASEMENT, OR ACCESS EASEMENT BY THE CONTRACTOR. SPOIL MATERIAL SHALL BE DEPOSITED WITHIN THE SITE DEVELOPMENT BOUNDARY IN AREAS DESIGNATED BY THE DEVELOPER'S ENGINEER. THE MATERIAL SHALL BE STOCKPILED OR SPREAD AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR DISPOSAL OF SPOIL MATERIAL; IT SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID.
9. A PORTABLE RESTROOM FACILITY WILL BE REQUIRED ON–SITE DURING CONSTRUCTION ACTIVITIES.
10. ANY ON–SITE FUELING WILL COMPLY WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
11. A CONCRETE TRUCK WASHOUT WILL BE LOCATED ON SITE.
12. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EROSION CONTROL MEASURES DAMAGED BY CONSTRUCTION ACTIVITIES.
13. EXISTING UTILITY LINES, EITHER OVERHEAD OR UNDERGROUND, AND PERMANENT STRUCTURE WITHIN THE PROPERTY LINES SHALL BE KEPT FREE OF DAMAGE BY CONTRACTOR'S OPERATIONS. IF SUCH UTILITY OR STRUCTURE IS DAMAGED, IT SHALL BE RESTORED AT THE CONTRACTOR'S EXPENSE. IF ANY UTILITY LINES OR STRUCTURES ARE DAMAGED DURING OPERATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR FURTHER INSTRUCTIONS.
14. HANDICAP PARKING INDICATOR SIGNS CAN BE WALL–MOUNTED IN FRONT OF ACCESSIBLE STALLS.
15. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION.
16. ALL DIMENSIONS ARE TO THE EDGE OF PAVEMENT, FACE OF BUILDING, OR BACK OF CURB. FOLLOW WRITTEN DIMENSIONS ALWAY. DO NOT SCALE. DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
17. CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL & SAFETY MEASURES.
18. ALL DISABLED PARKING STALLS SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (FEDERAL REGISTER/ VOL. 58 NO. 144/ RULES AND REGULATIONS).
19. CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES TO COORDINATE CONNECTIONS.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND DUST CONTROL, ANY DAMAGE FROM BLOWING DUST OR EROSION AND RUNOFF FROM THE SITE SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
21. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.

EXISTING LEGAL DESCRIPTION

A TRACT OF LAND COMPOSED OF A PORTION OF LOT 75 I.T., LOCATED IN THE SOUTHWEST QUARTER OF SECTION 13, TOWNSHIP 10 NORTH, RANGE 6 EAST OF THE 6TH P.M., CITY OF LINCOLN, LANCASTER COUNTY, NEBRASKA, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID LOT 75 I.T., SAID POINT BEING ON A NORTH RIGHT–OF–WAY LINE OF SALT CREEK ROADWAY, THENCE SOUTHWESTERLY ALONG THE SOUTH LINE OF SAID LOT 75 I.T., SAID LINE BEING A NORTH LINE OF SAID RIGHT–OF–WAY ON AN ASSUMED BEARING OF SOUTH 55 DEGREES 19 MINUTES 08 SECONDS WEST, A DISTANCE OF 576.57 FEET TO A POINT; THENCE NORTH 48 DEGREES 04 MINUTES 47 SECONDS WEST, A DISTANCE OF 107.38 FEET TO A POINT OF NON–TANGENT CURVATURE; THENCE ALONG A NON TANGENT CURVE TO THE LEFT, HAVING A RADIUS OF 186.00 FEET, AN ARC LENGTH OF 141.11 FEET, A DELTA ANGLE OF 43 DEGREES 28 MINUTES 06 SECONDS, A CHORD BEARING OF NORTH 21 DEGREES 44 MINUTES 03 SECONDS EAST, AND A CHORD LENGTH OF 137.75 FEET TO A POINT; THENCE NORTH 00 DEGREES 00 MINUTES 00 SECONDS EAST, A DISTANCE OF 348.98 FEET TO A POINT OF CURVATURE; THENCE ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 236.00 FEET, A DELTA ANGLE OF 10 DEGREES 24 MINUTES 18 SECONDS, AN ARC LENGTH OF 42.86 FEET, A CHORD BEARING OF NORTH 05 DEGREES 12 MINUTES 09 SECONDS WEST, AND A CHORD DISTANCE OF 42.80 FEET TO THE POINT OF BEGINNING; THENCE ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 236.00 FEET, A DELTA ANGLE OF 24 DEGREES 11 MINUTES 42 SECONDS, AN ARC LENGTH OF 99.66 FEET, A CHORD BEARING OF NORTH 22 DEGREES 30 MINUTES 09 SECONDS WEST, AND A CHORD DISTANCE OF 98.92 TO A POINT; THENCE NORTH 34 DEGREES 36 MINUTES 00 SECONDS WEST, A DISTANCE OF 127.50 FEET TO A POINT; THENCE NORTH 55 DEGREES 24 MINUTES 00 SECONDS EAST, A DISTANCE OF 435.00 FEET TO A POINT; THENCE SOUTH 34 DEGREES 36 MINUTES 00 SECONDS EAST, A DISTANCE OF 374.60 FEET TO A POINT OF CURVATURE; THENCE ALONG A CURVE TO THE RIGHT HAVING A RADIUS OF 164.00 FEET, A DELTA ANGLE OF 35 DEGREES 47 MINUTES 18 SECONDS, AN ARC LENGTH OF 102.44 FEET, A CHORD BEARING OF SOUTH 16 DEGREES 42 MINUTES 21 SECONDS EAST, AND A CHORD DISTANCE OF 100.78 FEET TO A POINT; THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS WEST, A DISTANCE OF 9.94 FEET TO A POINT OF CURVATURE; THENCE ALONG A NON TANGENT CURVE TO THE LEFT, HAVING A RADIUS OF 496.00 FEET, AN ARC LENGTH OF 32.53 FEET, A DELTA ANGLE OF 03 DEGREES 45 MINUTES 30 SECONDS, A CHORD BEARING OF SOUTH 02 DEGREES 25 MINUTES 21 SECONDS EAST, AND A CHORD LENGTH OF 32.53 FEET TO A POINT; THENCE NORTH 90 DEGREES 00 MINUTES 00 SECONDS WEST, A DISTANCE OF 407.51 FEET TO A POINT OF CURVATURE; THENCE ALONG A CURVE TO THE LEFT HAVING A RADIUS OF 453.50 FEET, A DELTA ANGLE OF 09 DEGREES 18 MINUTES 56 SECONDS, AN ARC LENGTH OF 73.73 FEET, A CHORD BEARING OF SOUTH 85 DEGREES 20 MINUTES 32 SECONDS WEST, AND A CHORD DISTANCE OF 73.65 FEET TO THE POINT OF BEGINNING.

SAID TRACT CONTAINS A CALCULATED AREA OF 163,505.83 SQUARE FEET OR 3.75 ACRES MORE OR LESS.

REVISIONS:
DESIGN ARCHITECT:
PROJECT ARCHITECT: CMB
DRAWN BY: Author
ISSUED:

PROFESSIONAL CIVIL ENGINEER NATHANIEL K. BUSS E-13150 STATE OF NEBRASKA 11/09/12

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SITE PLAN

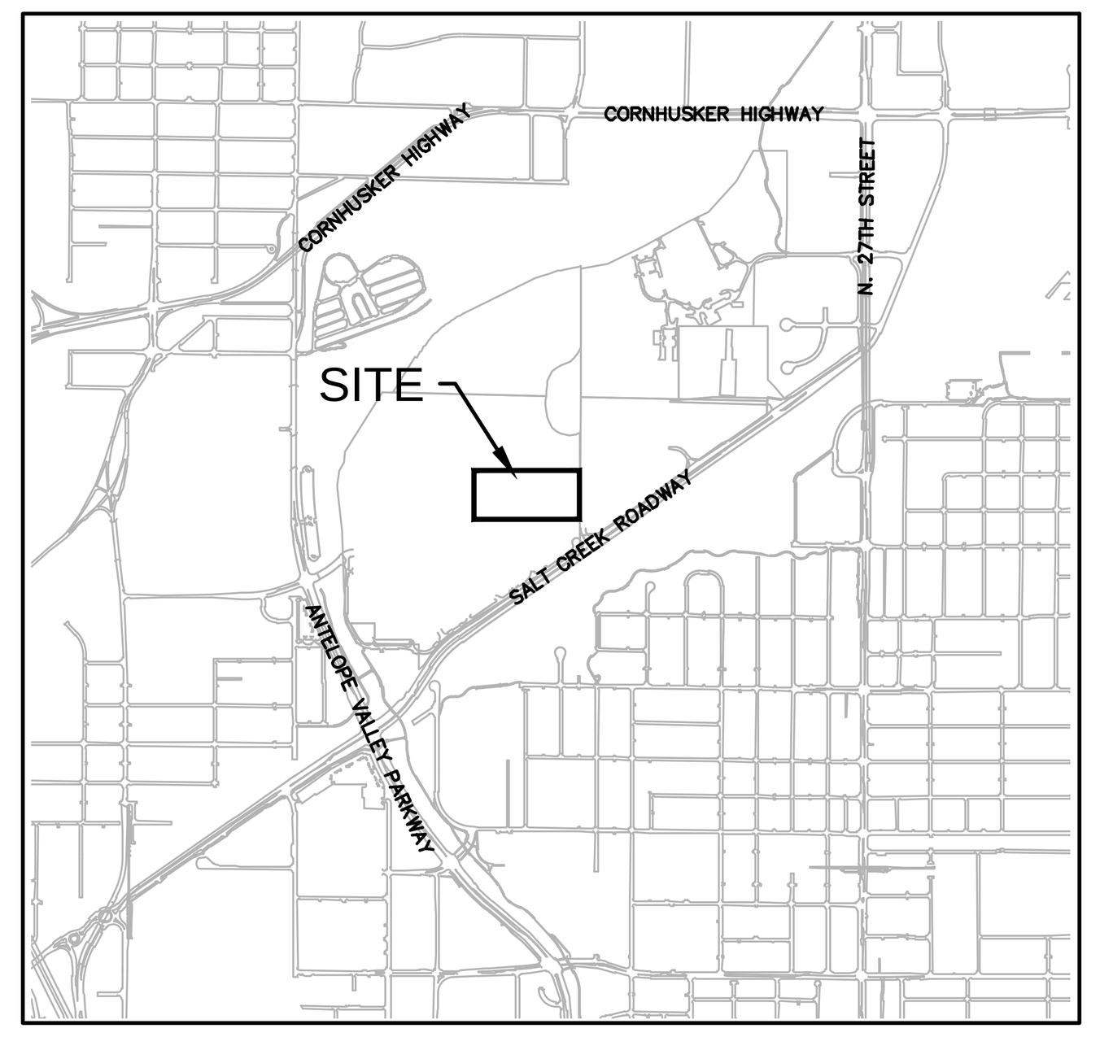
SHA PROJECT NO. 11053

C100

DWG: F:\Projects\011-1361_LDVP\Final_Plans\111361_C100-SIT.dwg USER: nbuss
DATE: Nov 09, 2012 8:31am XREFS: 0110407_PBASE AS100-Architectural 111361_TB VMAP

THIS GRADING AND EROSION CONTROL PLAN IS FOR REFERENCE ONLY

THE OVERALL MASS GRADING OF THE SITE WILL BE COORDINATED UNDER A SEPARATE CONTRACT BY THE OWNER. THE SITE WILL BE BROUGHT TO SUBGRADE IN PAVING AND BUILDING AREA WITHIN ±1". THE CONTRACTOR WILL BE REQUIRED TO PREPARE THE PAVING AND BUILDING SUBGRADES PER THE GEOTECHNICAL REPORT. SILT FENCE AND CONSTRUCTION ENTRANCE WILL BE BY CONTRACTOR.

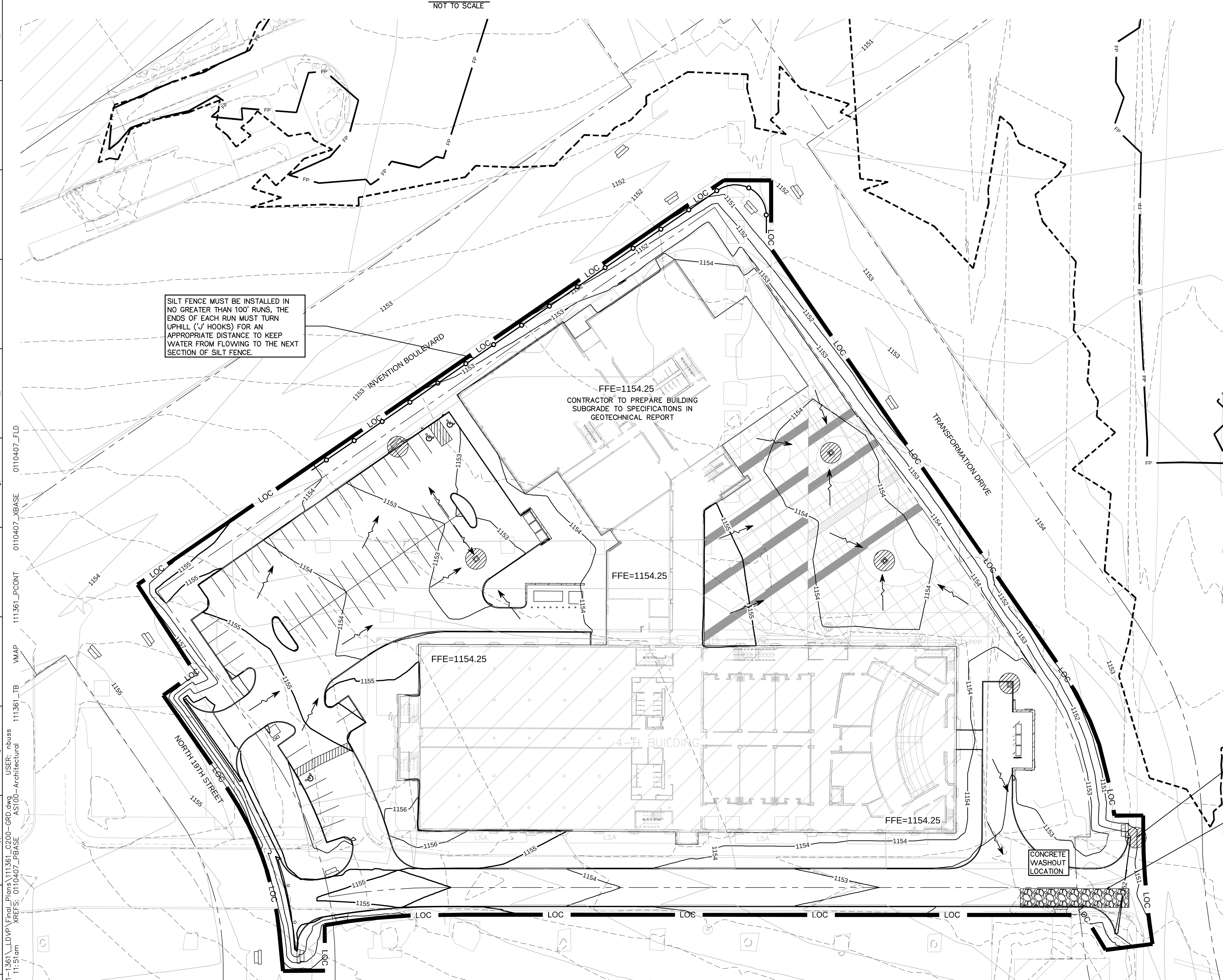


VICINITY MAP
NOT TO SCALE

Diggers Hotline Of Nebraska
Statewide (800) 331-5666
www.ne-diggers.com
Call Before You Dig... Its The Law

SITE INFORMATION	
TOTAL DISTURBED AREA	4.49 Ac.
TOTAL SITE AREA	4.49 Ac.
NPDES PERMIT IS REQUIRED	

PLACE HYDRO SEED AND STRAW MULCH ON ALL DISTURBED EMBANKMENTS. MULCH SHALL BE CRIMPED IN PLACE.



GENERAL NOTES

1. CONTRACTOR TO PRESERVE ALL SURVEY CONTROL.
2. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND REQUEST A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET (OR AVOIDED) BY WORK TO BE DONE SHALL BE CONFIRMED BY THE CONTRACTOR THROUGH FIELD EXPLORATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT TO THE DEVELOPER'S ENGINEER, CITY INSPECTOR, OR DEVELOPER'S ENGINEER FIELD REPRESENTATIVE ANY DISCREPANCIES BETWEEN HIS MEASUREMENTS AND THESE PLANS.
4. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITY PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE CONSTITUTES ALL KNOWN FACILITIES. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT UNDERGROUND SERVICE ALERT @ 1-800-331-5666 IN ADVANCE OF ANY EXCAVATION FOR THE MARK-OUT OF THE LOCATION OF UTILITIES AND NOTIFICATION OF COMMENCEMENT OF WORK.
5. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLAN IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
6. CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER EXISTING LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
7. THE CONTRACTOR SHALL USE CAUTION AROUND ANY EXISTING UTILITIES OR IMPROVEMENTS LOCATED ON SITE. HE SHALL BE RESPONSIBLE FOR THE REPAIRS OF SUCH STRUCTURES WHEN BROKEN OR OTHERWISE DAMAGED BY THE NEW CONSTRUCTION.
8. ALL SPOIL MATERIAL SHALL BE REMOVED FROM THE STREET ROW, UTILITY EASEMENT, OR ACCESS EASEMENT BY THE CONTRACTOR. SPOIL MATERIAL SHALL BE DEPOSITED WITHIN THE SITE DEVELOPMENT BOUNDARY IN AREAS DESIGNATED BY THE DEVELOPER'S ENGINEER. THE MATERIAL SHALL BE STOCKPILED OR SPREAD AS DIRECTED BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR DISPOSAL OF SPOIL MATERIAL; IT SHALL BE CONSIDERED SUBSIDIARY TO THE PRICE BID.
9. A PORTABLE RESTROOM FACILITY WILL BE REQUIRED ON-SITE DURING CONSTRUCTION ACTIVITIES.
10. ANY ON-SITE FUELING WILL COMPLY WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
11. A CONCRETE TRUCK WASHOUT WILL BE LOCATED ON LOT 'X', BLOCK 'X' OF DEVELOPMENT NAME, ADDITION, OR AS APPROVED BY THE ENGINEER..
12. THE CONTRACTOR SHALL REPAIR OR REPLACE ALL EROSION CONTROL MEASURES DAMAGED BY CONSTRUCTION ACTIVITIES.

1" = 30'
0' 15' 30' 60'
SCALE IN FEET

LEGEND

- LIMITS OF CONSTRUCTION (LOC)
- PROPOSED BACK OF CURB
- EXISTING BACK OF CURB
- PROPERTY LINE
- CENTERLINE
- SILT FENCE PER DETAIL ON C201
- 100-YR FLOODPLAIN (FP)
- SALT CREEK FLOOD STORAGE AREA
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR (ROADWAY, BY OTHERS)
- PROPOSED MINOR CONTOUR (ROADWAY, BY OTHERS)
- DIRECTION OF FLOW
- CONSTRUCTION ENTRANCE
- INLET PROTECTION
- EXISTING BUILDING TO REMAIN

THIS GRADING AND EROSION CONTROL PLAN IS FOR REFERENCE ONLY

THE OVERALL MASS GRADING OF THE SITE WILL BE COORDINATED UNDER A SEPARATE CONTRACT BY THE OWNER. THE SITE WILL BE BROUGHT TO SUBGRADE IN PAVING AND BUILDING AREA WITHIN ±1". THE CONTRACTOR WILL BE REQUIRED TO PREPARE THE PAVING AND BUILDING SUBGRADES PER THE GEOTECHNICAL REPORT. SILT FENCE AND CONSTRUCTION ENTRANCE WILL BE BY CONTRACTOR.

BMP IMPLEMENTATION SCHEDULE

SPECIFIED BMP	INSTALLATION	REQUIRED MAINTENANCE	REMOVAL
VEGETATED BUFFER/ FILTER STRIP	PRESERVE BUFFER STRIPS NEIGHBORING SENSITIVE AREAS	WEED AND PEST CONTROL, MOVING, FERTILIZING, IRRIGATING, AND PRUNING, INSPECT FOR VEGETATION FOR CONTINUED ESTABLISHMENT	ADOPT BUFFER INTO FINAL LANDSCAPE
CONSTRUCTION ENTRANCE	UPON MOBILIZATION OF GRADING CONTRACTOR	ADD OR REPLACE ROCK AS REQUIRED TO MAINTAIN FUNCTIONALITY	COMPLETION OF STREET PAVING.
SILT FENCE	IMMEDIATELY FOLLOWING CLEARING AND GRUBBING AROUND PERIMETER	REPAIR WASH-OUTS, DOWNED FABRIC, AND REMOVE SEDIMENT WHEN DEPTH IS ½ THE HEIGHT OF THE FABRIC.	95% VEGETATIVE COVER ON UPSTREAM AREAS.
TEMPORARY SEEDING	IMMEDIATELY FOLLOWING MAJOR GRADING AND INSTALLATION OF EROSION CONTROL PRACTICES	RE-SEED AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER; CONTROL WEEDS; ENSURE GOOD STAND IS MAINTAINED	N/A
CONCRETE WASHOUT	UPON MOBILIZATION OF UTILITY CONTRACTOR	REMOVE CONCRETE RUBBLE AS REQUIRED TO MAINTAIN FUNCTIONALITY	COMPLETION OF STREET PAVING.
STORM DRAIN INLET PROTECTION	IMMEDIATELY FOLLOWING INSTALLATION OF STORM SEWER	REMOVE SEDIMENT WHEN DEPTH IS ½ THE HEIGHT OF THE FABRIC.	COMPLETION OF STREET PAVING.
PERMANENT SEEDING	IMMEDIATELY FOLLOWING FINISHED GRADING AND INSTALLATION OF EROSION CONTROL PRACTICES	RE-SEED AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER; CONTROL WEEDS; ENSURE GOOD STAND IS MAINTAINED	N/A
HYDROSEEDING/ HYDROMULCHING	IMMEDIATELY FOLLOWING FINISHED GRADING	INSPECT FOR EROSION, ADD MULCH AND/OR SEED AS NECESSARY	N/A
MULCHING		INSPECT FOR EROSION, ADD MULCH AS NECESSARY UNTIL GRASSES ARE FIRMLY ESTABLISHED	N/A

EROSION AND SEDIMENT CONTROL NOTES

1. THIS EROSION AND SEDIMENT CONTROL PLAN (E & S PLAN) IS PART OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). THIS E & S PLAN MUST BE USED IN CONJUNCTION WITH THE SWPPP.
2. ALL EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
3. ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF THE GRADING, STOCKPILED AND REDISTRIBUTED WITH THE TOPSOIL FOR FINAL GRADING AND PERMANENT STABILIZATION. IF POSSIBLE, LEAVE VEGETATION BUFFER TO NEIGHBORING PROPERTIES AND SENSITIVE AREAS.
4. THE ENGINEER WILL FLAG ANY TREES TO BE REMOVED. NO TREES SHALL BE REMOVED WITHOUT PRIOR APPROVAL FROM THE OWNERS REPRESENTATIVE & OR THE ENGINEER.
5. THE CONTRACTOR SHALL INSTALL GRAVEL CHECK DAMS OR SEDIMENT BARRIERS IN ANY GULLY WASHOUT AREAS TO CONTROL FURTHER EROSION AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL STRUCTURES UNTIL FINAL SITE STABILIZATION IS ACHIEVED.
7. ADDITIONAL SILT FENCE SHALL BE INSTALLED WHEN NECESSARY TO PREVENT SEDIMENT FROM MIGRATING ONTO THE ROADS OR ADJACENT PROPERTY.
8. INSPECTION AND MAINTENANCE OF EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH SECTION 9.7.4 OF THE CITY OF LINCOLN DRAINAGE CRITERIA MANUAL.
9. WHEN STORM SEWERS ARE INSTALLED AND STREETS PAVED, ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED IF SITE IS NOT STABILIZED.
10. TEMPORARY SEEDING SHALL BE IN ACCORDANCE WITH CHAPTER 9 OF THE CITY OF LINCOLN DRAINAGE CRITERIA MANUAL.
11. THE STRIPPING STOCKPILE IS APPROXIMATE, THE ACTUAL STRIPPING STOCKPILE SHALL BE LOCATED BY THE GRADING CONTRACTOR AT TIME OF GRADING. THE STOCKPILE, SHALL BE STABILIZED WITH TEMPORARY VEGETATION.
12. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES AND STORM WATER MANAGEMENT PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE LOWER PLATTE SOUTH NRD MANUAL OF EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT STANDARDS, DATED 1994 AND APPROVED SUPPLEMENTS.
13. FOLLOWING SOIL DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN (7) CALENDAR DAYS TO THE SURFACE OF ALL PERIMETER CONTROLS, TOPSOIL STOCKPILES, AND ANY OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE WHICH ARE NOT BEING USED FOR MATERIAL STORAGE, OR ON WHICH ACTUAL EARTH MOVING ACTIVITIES ARE NOT BEING PERFORMED.
14. ALL SEDIMENT AND EROSION CONTROL PRACTICES WILL BE INSPECTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES OF PRECIPITATION DURING ANY 24-HOUR PERIOD BY RESPONSIBLE PERSONNEL. ANY NECESSARY REPAIRS OR CLEAN-UP TO MAINTAIN THE EFFECTIVENESS OF THE BEST MANAGEMENT PRACTICES SHALL BE MADE IMMEDIATELY.
15. BMP IMPLEMENTATION SCHEDULE SHALL BE FOLLOWED FOR INSTALLATION, MAINTENANCE AND REMOVAL OF BMP'S.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND DUST CONTROL. ANY DAMAGE FROM BLOWING DUST OR EROSION AND RUNOFF FROM THE SITE SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
17. CONTRACTOR IS RESPONSIBLE FOR OBTAINING PROPER NPDES PERMITS ON ALL BORROW SITES.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL BARRIERS FOR A PERIOD OF 1 YEAR AFTER COMPLETION OF THE PROJECT OR UNTIL HE IS RELEASED FROM THIS RESPONSIBILITY BY THE OWNER, WHICHEVER PERIOD IS SHORTER.

THE UNDERSIGNED CERTIFIES THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE TERMS OF THE INTERLOCAL AGREEMENT FOR NPDES COMPLIANCE.

NATHANIEL BUSS, PE

THIS GRADING AND EROSION CONTROL PLAN IS FOR REFERENCE ONLY

THE OVERALL MASS GRADING OF THE SITE WILL BE COORDINATED UNDER A SEPARATE CONTRACT BY THE OWNER. THE SITE WILL BE BROUGHT TO SUBGRADE IN PAVING AND BUILDING AREA WITHIN ±1". THE CONTRACTOR WILL BE REQUIRED TO PREPARE THE PAVING AND BUILDING SUBGRADES PER THE GEOTECHNICAL REPORT. SILT FENCE AND CONSTRUCTION ENTRANCE WILL BE BY CONTRACTOR.

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PROJECT CONSULTANTS

4H Renovation & NIC Building

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GRADING AND EROSION CONTROL PLAN (FOR REFERENCE ONLY)

SHA PROJECT NO. 11053

C200

DWG: F:\Projects\011-1361_LDVP\Final_Plans\111361_C200-GRD.dwg USER: nbuss
DATE: Nov 09, 2012 11:51am XREFS: 0110407_PBASE AS100-Architectural

THIS GRADING AND EROSION CONTROL PLAN IS FOR REFERENCE ONLY

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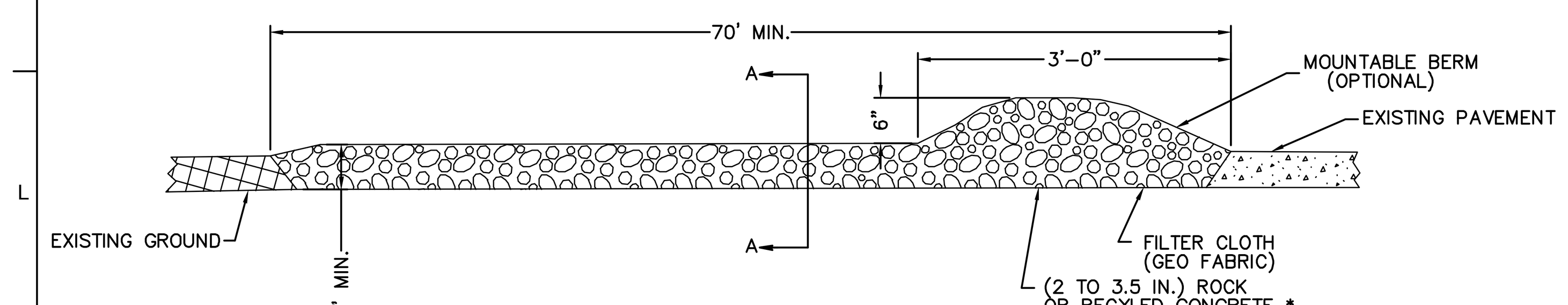
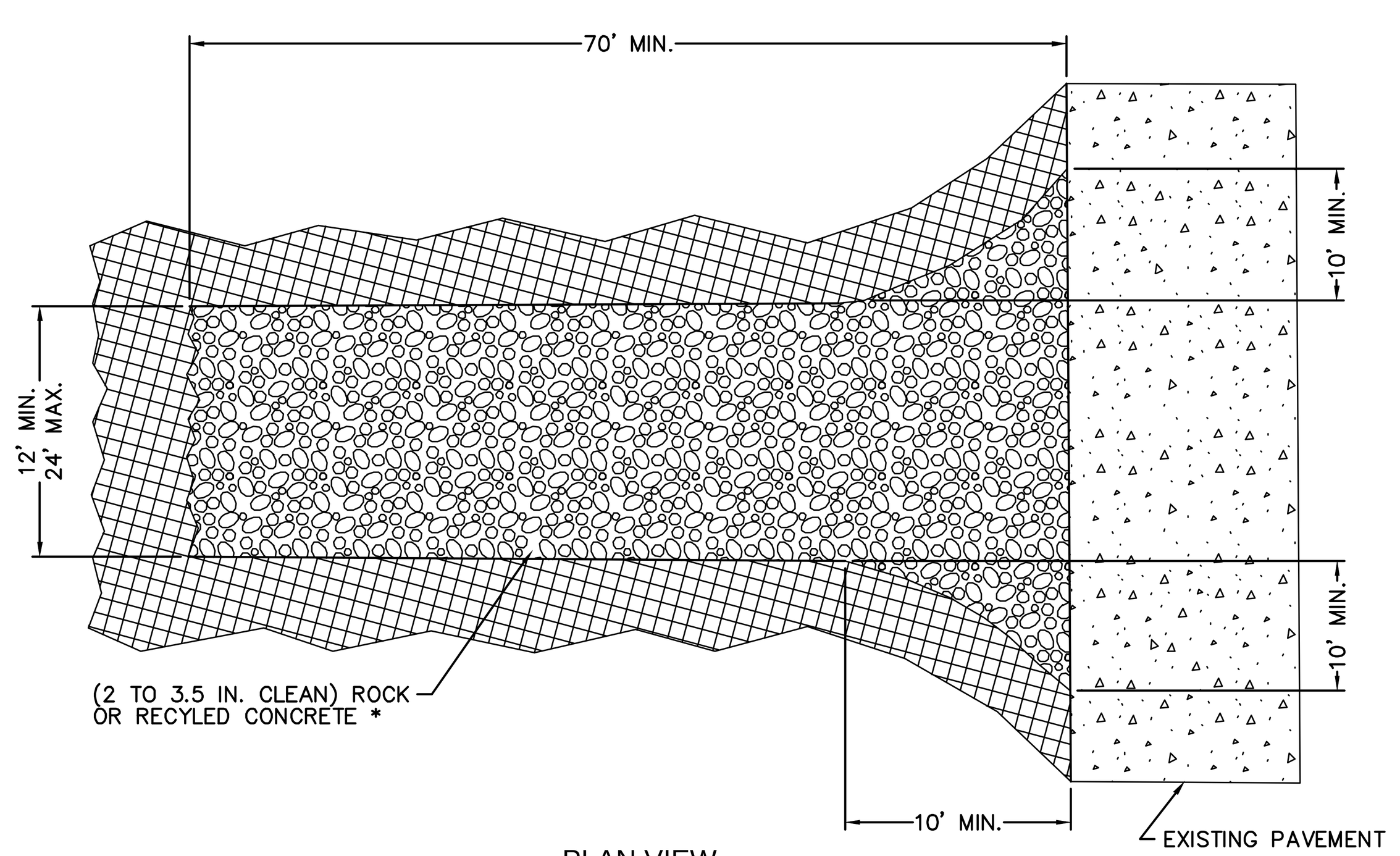
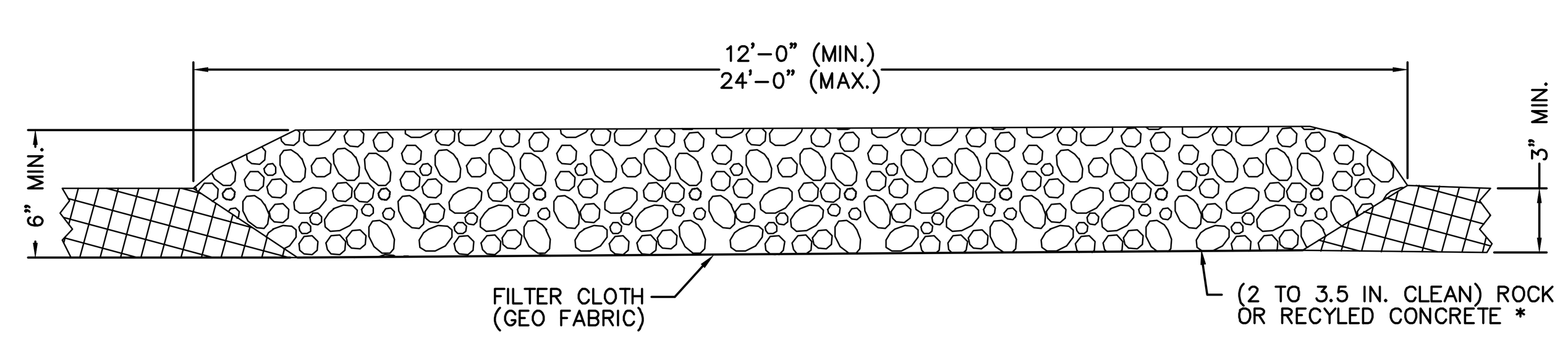


SIDE VIEW



PLAN VIEW



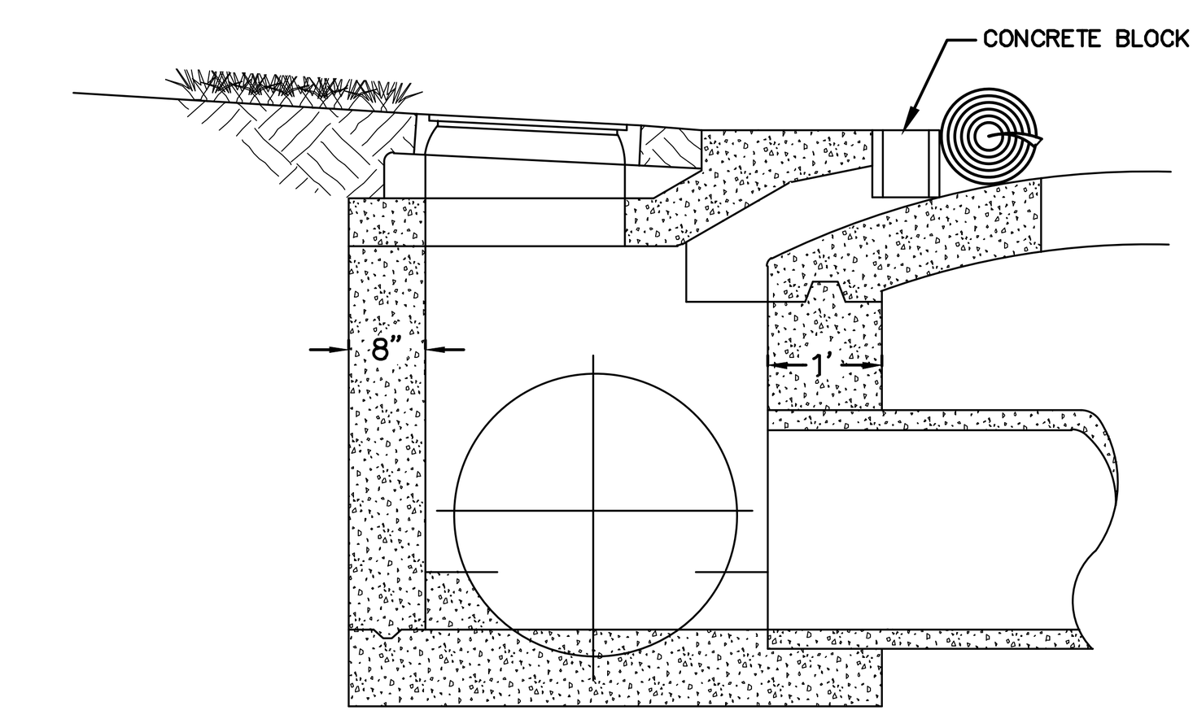
SECTION A-A

NOTE:

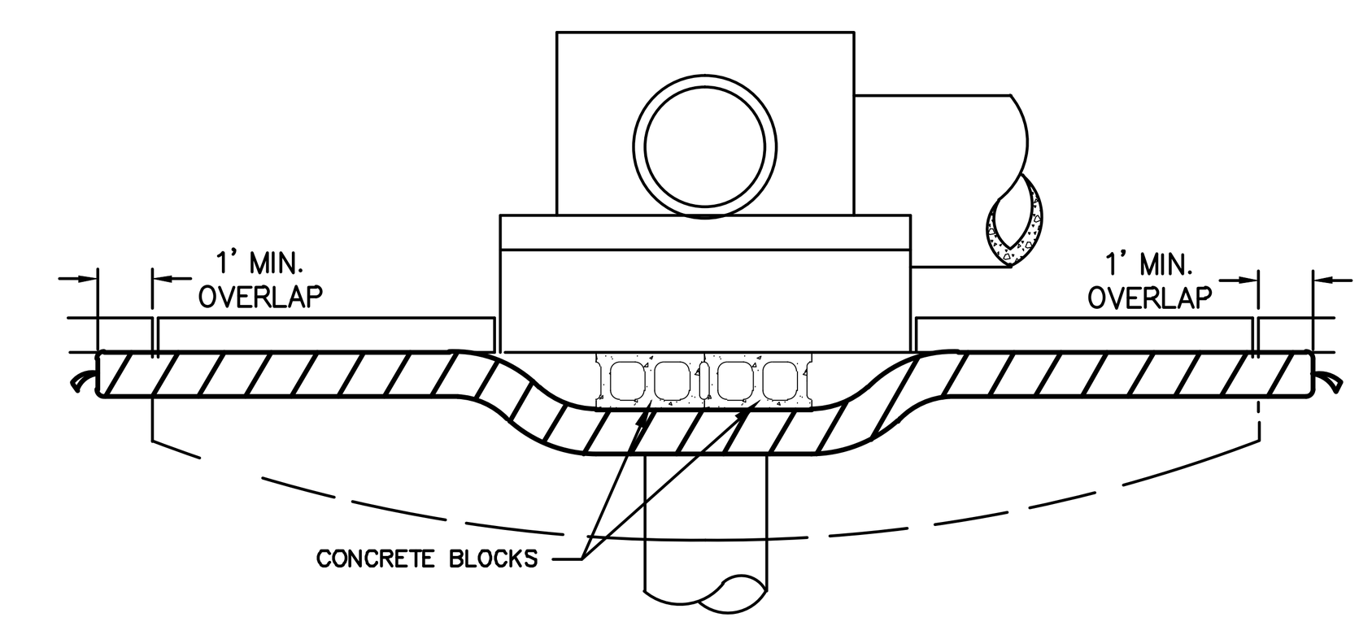
1. * MUST EXTEND THE FULL WIDTH AND LENGTH OF THE CONSTRUCTION ENTRANCE
2. THE 24'-0" WIDTH IS REQUIRED WHEN THE INGRESS AND THE EGRESS ARE THE SAME
3. REFER TO CHAPTER 8 AND 9 OF TH CITY OF LINCOLN DRAINAGE CRITERA MANUAL FOR MORE INFORMATION OF SEDIMENT AND EROSION CONTROL MEASURES
4. FOR ROCK DIMENSIONS AND SPECIFICATIONS SEE TABLE ON LINCOLN STANDARD PLAN NO. 177

CONSTRUCTION ENTRANCE DETAIL

SCALE: NOT TO SCALE



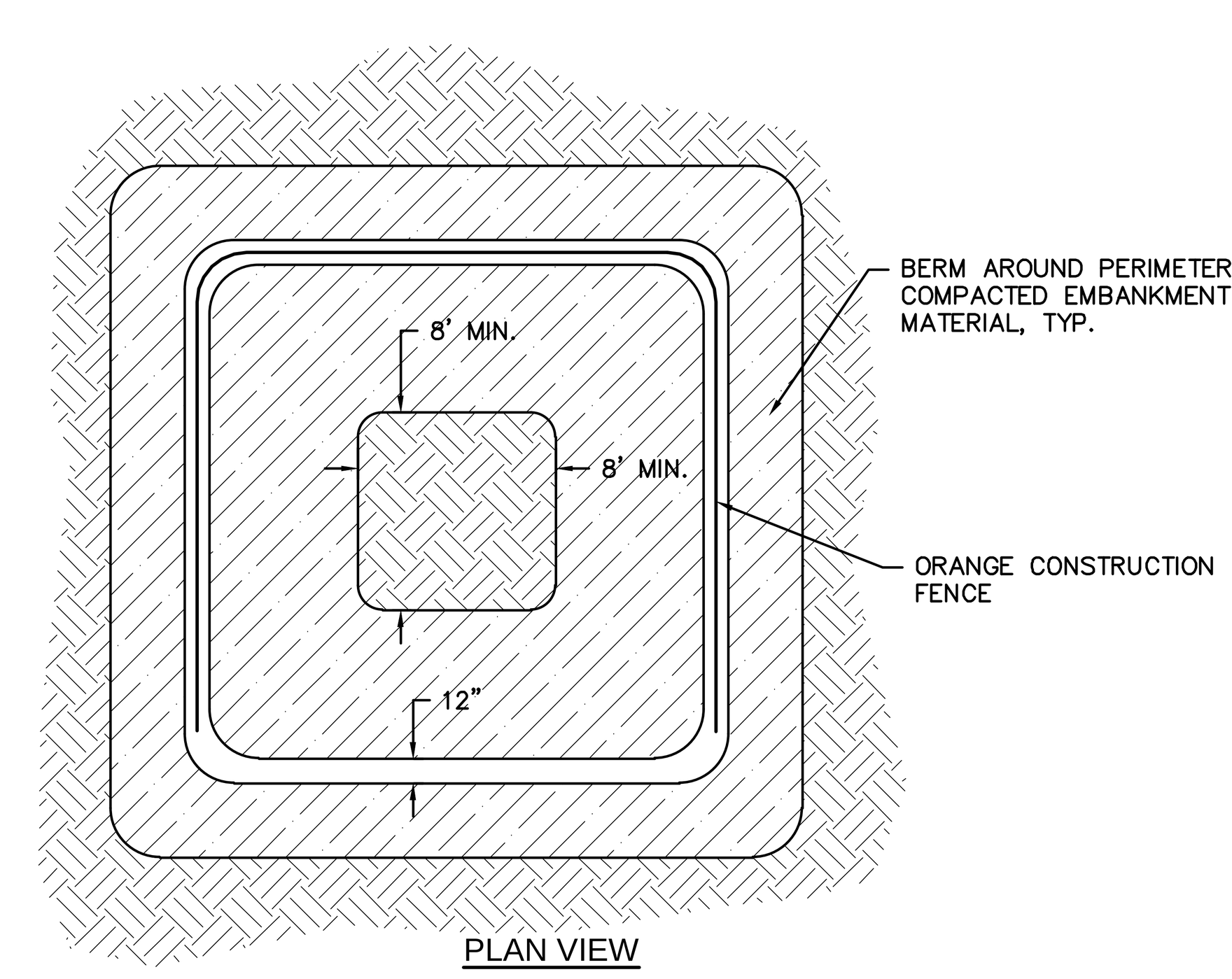
SECTION



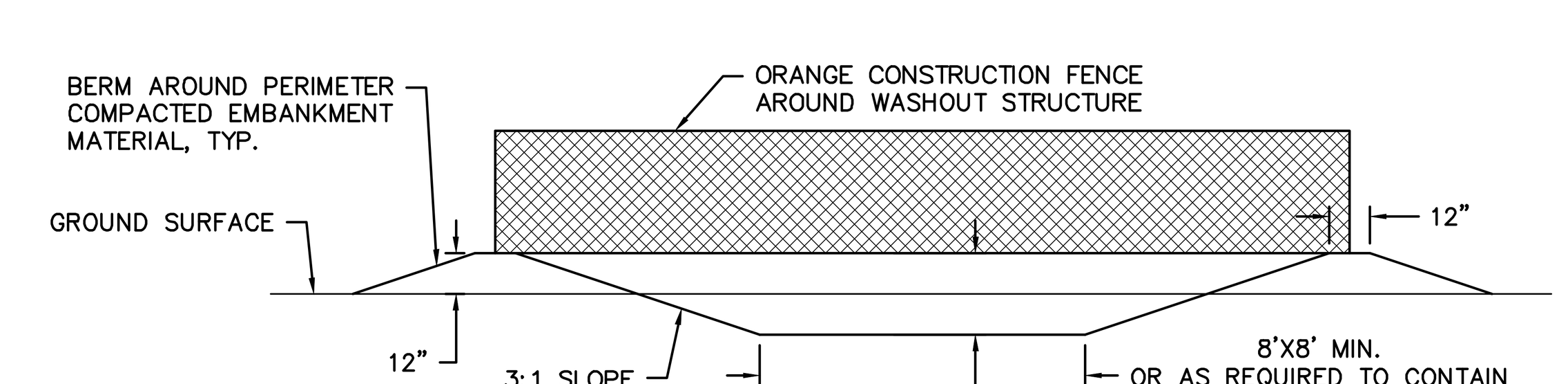
PLAN

TYPE III CURB INLET FILTER

NO SCALE



PLAN VIEW



SECTION

NOTES:

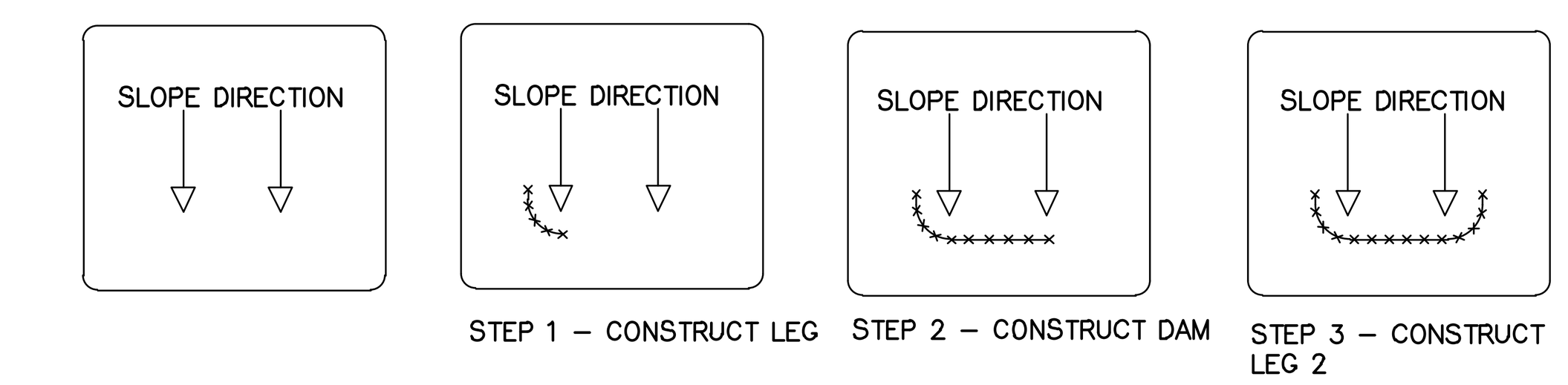
1. CONCRETE WASHOUT AREA SHALL BE INSTALL PRIOR TO ANY CONCRETE PLACEMENT ON SIGHT.
2. VEHICLE TRACKING CONTROL IS REQUIRED AT CONCRETE WASHOUT ENTRANCE IF ACCESS TO CONCRETE WASHOUT AREA IS OFF PAVEMENT.
3. CONCRETE WASHOUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE.
4. WASTE MATERIAL FROM CONCRETE WASHOUT OPERATIONS MUST BE REMOVED ONCE THE MATERIAL HAS REACHED A DEPTH OF 1'.
5. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROVED WASTE SITE.
6. WHEN CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.

CONCRETE WASHOUT AREA DETAIL

NOT TO SCALE

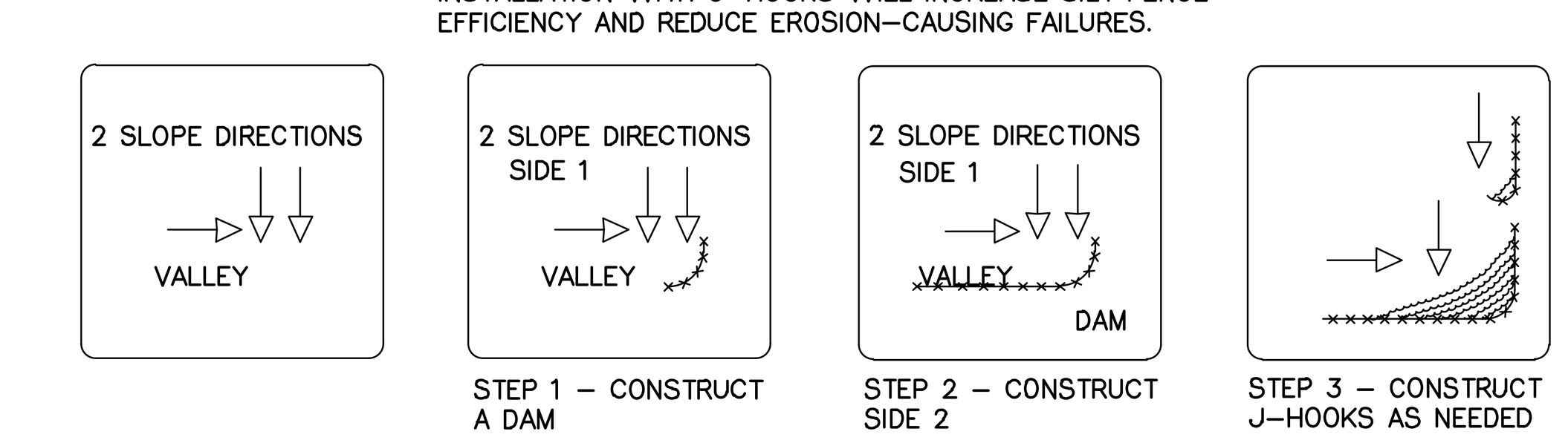
SILT FENCE PLACEMENT/ONE SLOPE

INSTALLATION WITH J-HOOKS OR "SMILES" INCREASE SILT FENCE EFFICIENCY.

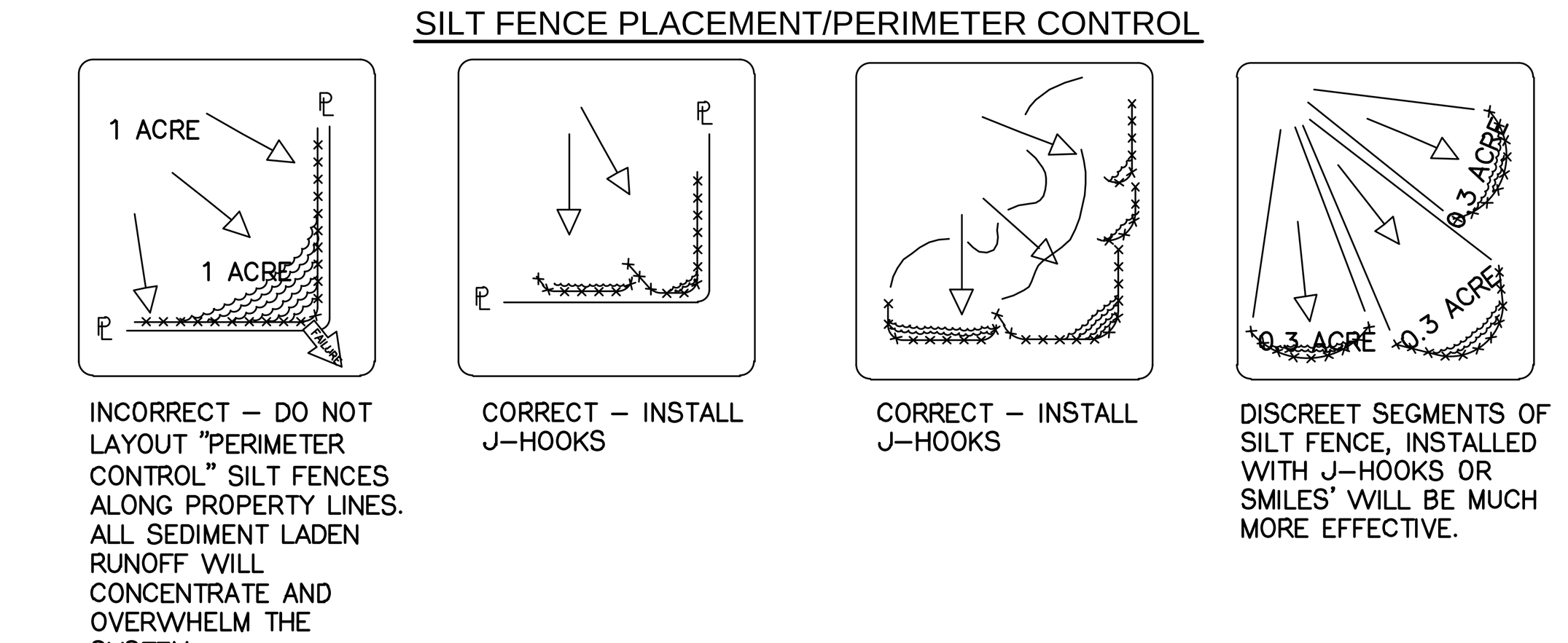


SILT FENCE PLACEMENT/TWO SLOPES

INSTALLATION WITH J-HOOKS WILL INCREASE SILT FENCE EFFICIENCY AND REDUCE EROSION-CAUSING FAILURES.



SILT FENCE PLACEMENT/PERIMETER CONTROL

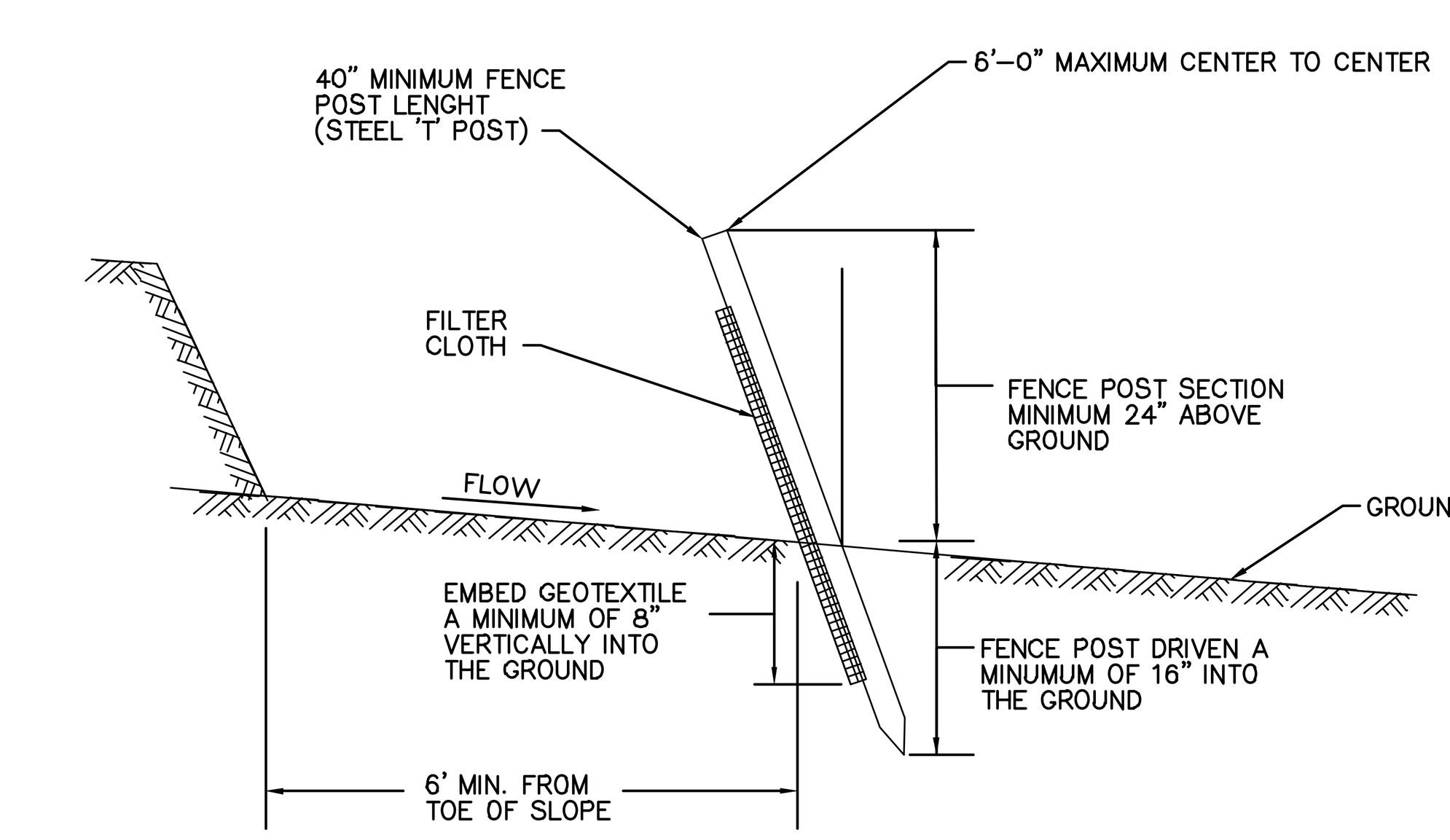


NOTE:

REFER TO CHAPTER 8 AND 9 OF THE CITY OF LINCOLN DRAINAGE CRITERIA MANUAL FOR MORE INFORMATION ON SEDIMENT AND EROSION CONTROL MEASURES

SILT FENCE DETAIL

NOT TO SCALE



SILT FENCE DETAIL

NOT TO SCALE

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DATE: Nov 09, 2012 11:34am XREFS: 111361_TB

REVISIONS:

DESIGN ARCHITECT:
PROJECT ARCHITECT: CMB
DRAWN BY: Author
ISSUED:

PROFESSIONAL CIVIL ENGINEER NATHANIEL K. BUSS E-13150 11/09/12 STATE OF NEBRASKA

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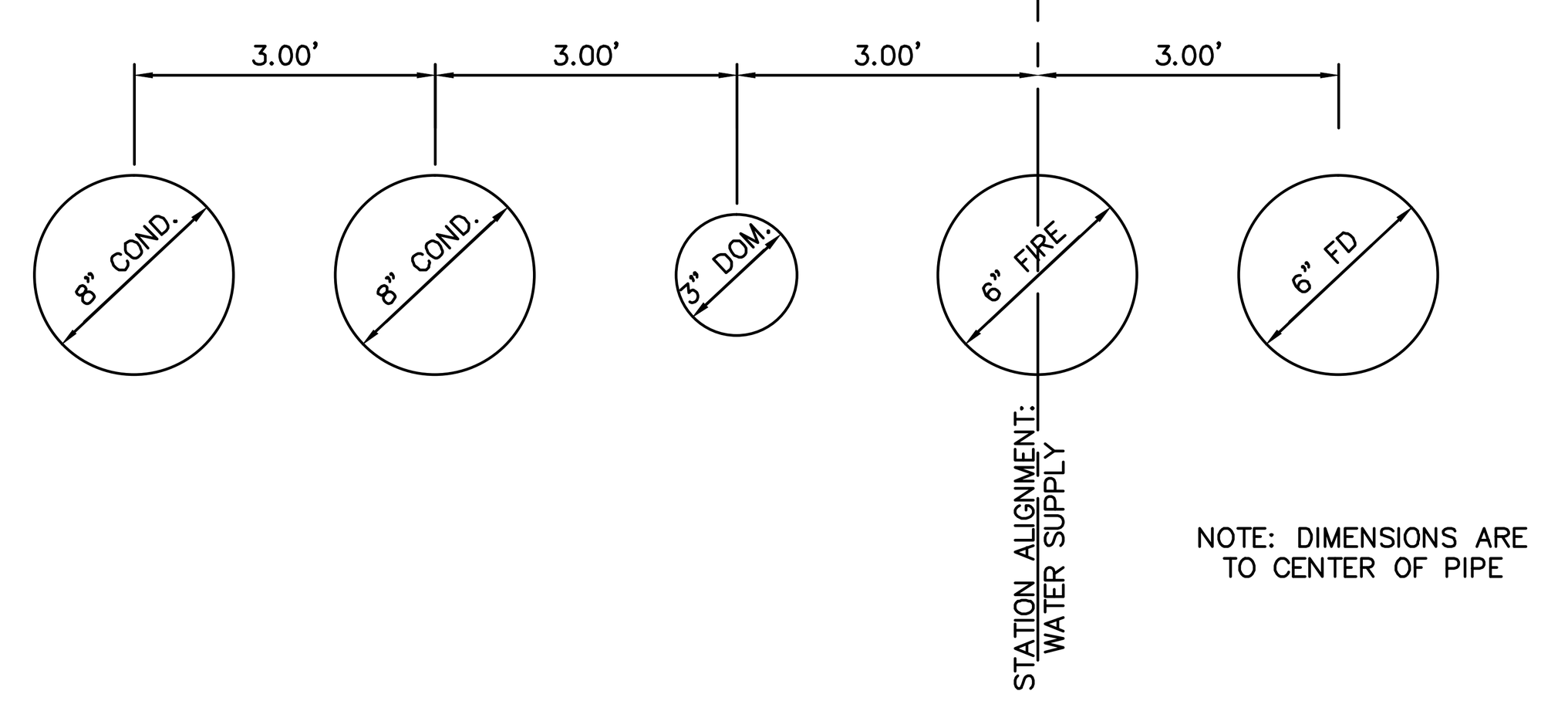
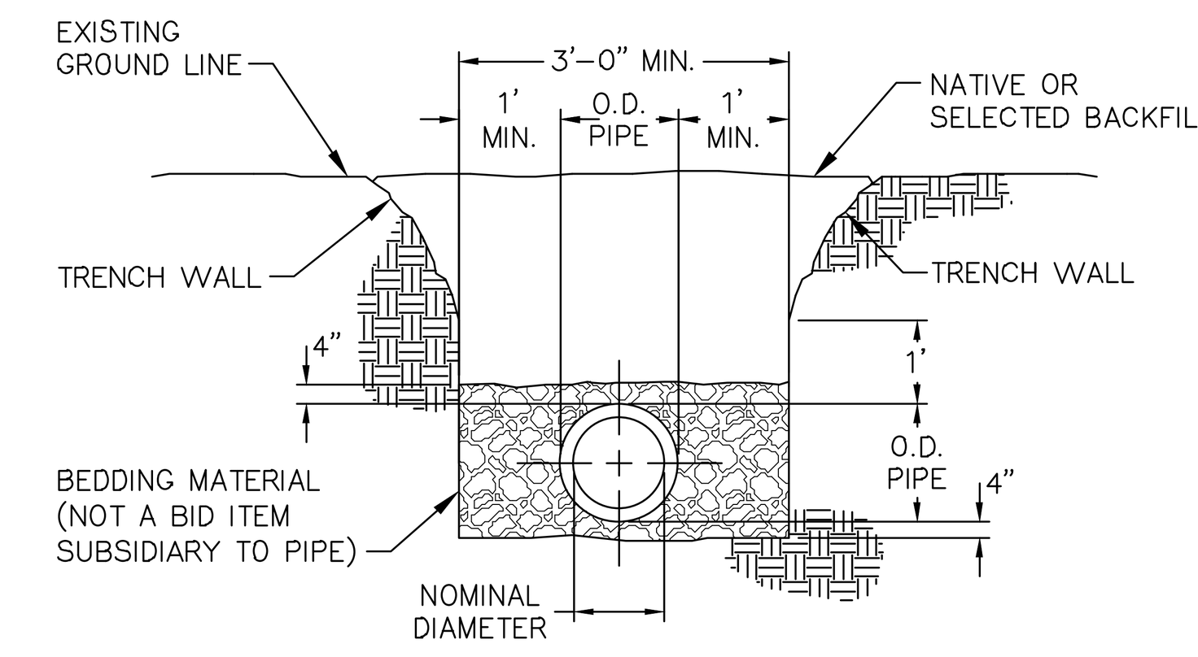
GRADING AND EROSION CONTROL PLAN DETAILS

SHA PROJECT NO. 11053

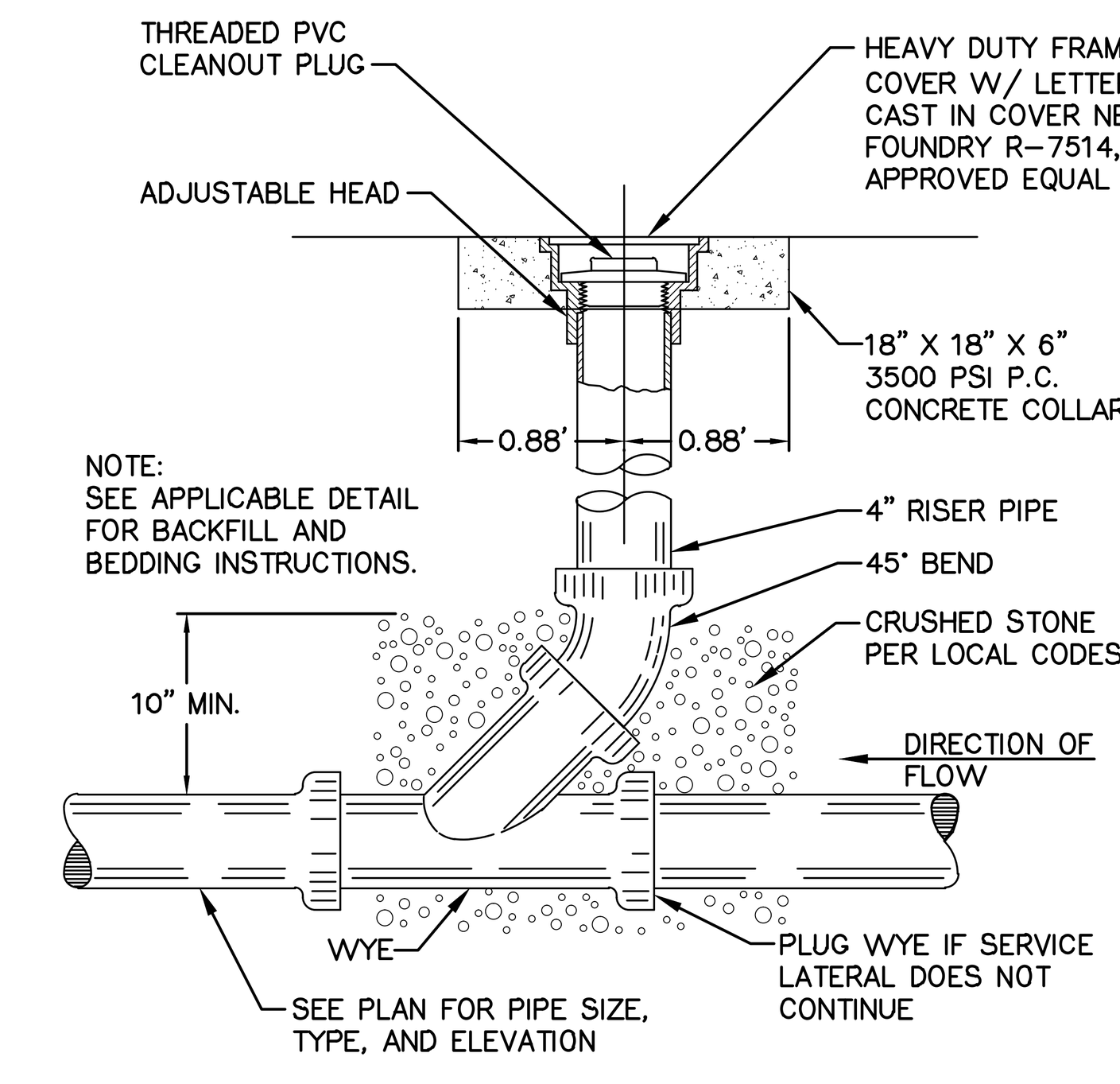
C201



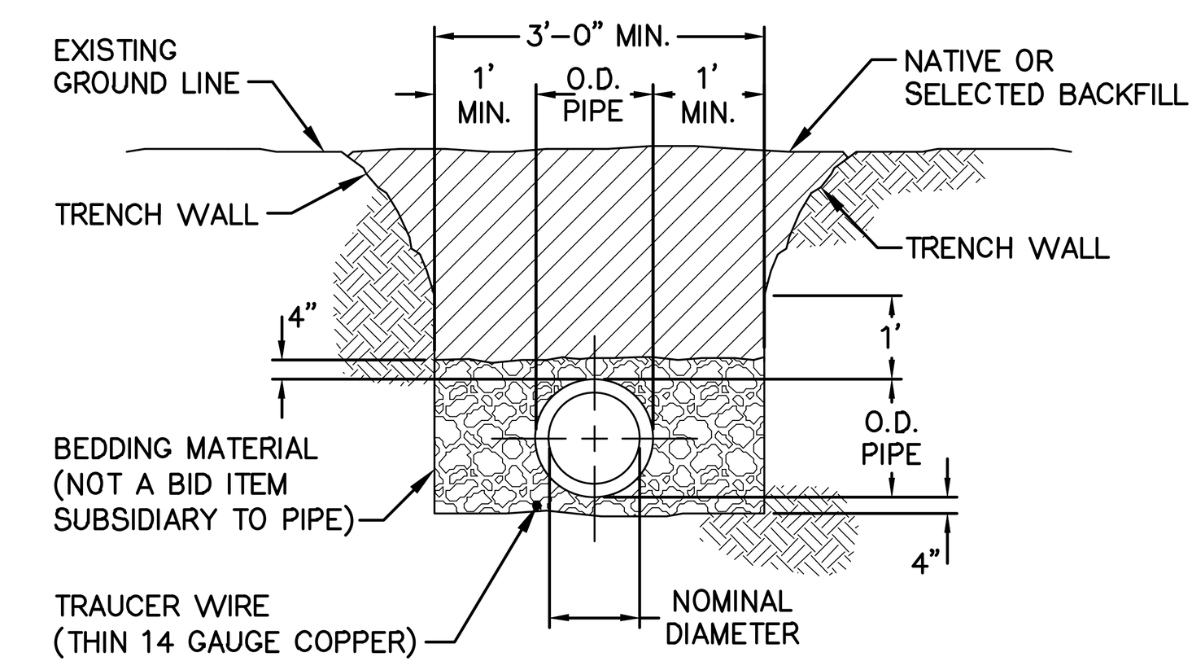
SECTION A - WATER SERVICES CROSS SECTION
NOT TO SCALE



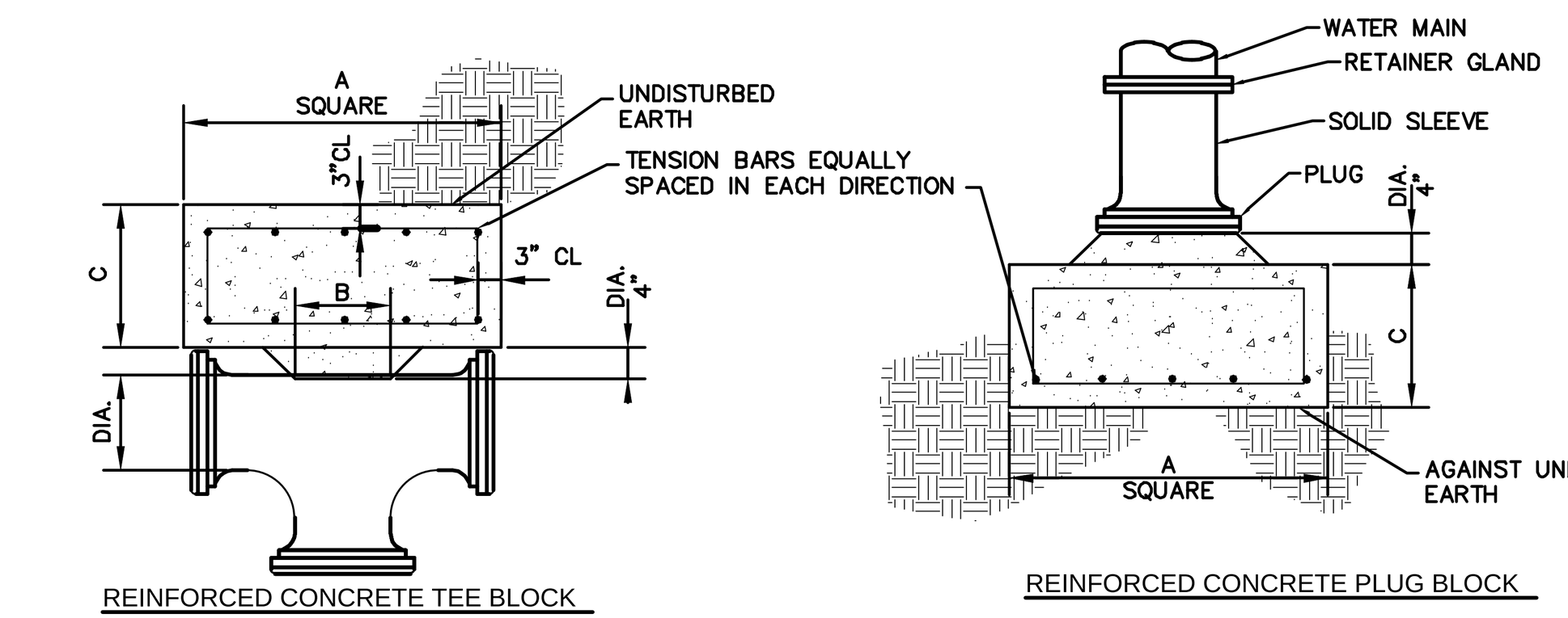
FOUNDATION & BEDDING MATERIAL DETAIL FOR 4" & 8" SANITARY SEWER
NOT TO SCALE



SEWER CLEAN-OUT
NOT TO SCALE



DETAIL OF BEDDING MATERIAL FOR PVC WATER MAIN
NOT TO SCALE



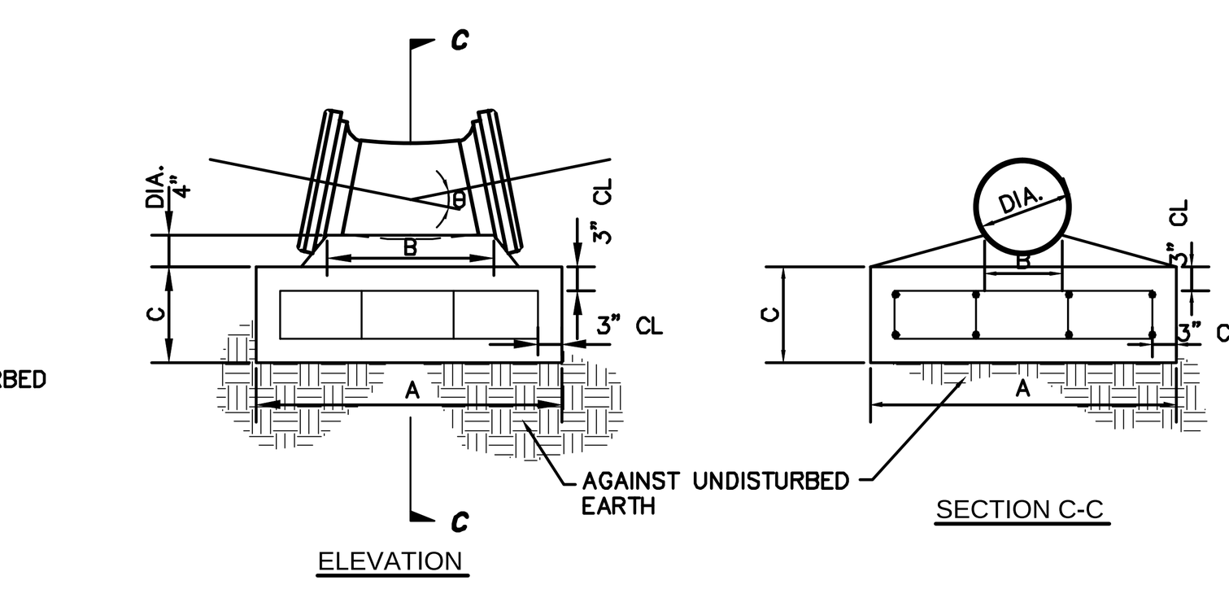
REINFORCED CONCRETE TEE BLOCK

REINFORCED CONCRETE PLUG BLOCK

REINFORCED CONCRETE TEE & PLUG THRUST BLOCKS
NOT TO SCALE

R.C. TEE BLOCK & PLUG BLOCK							
DIA.	A	B	C	ROUND BAR SIZE	# OF BARS EACH WAY	STEEL LBS.	CONC. CU. FEET
6"	1'-9"	0'-6"	0'-6"	#4	2	3.4	0.1
8"	2'-3"	0'-9"	0'-9"	#4	3	10.0	0.2
12"	3'-4"	1'-0"	1'-0"	#4	6	22.7	0.4

NOTES:
1. THRUST BLOCKS TO BE POURED AGAINST UNDISTURBED EARTH.
2. ALL REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM SERIAL DESIGNATION A-305-507 AND SHALL SATISFY THE BEND TEST REQUIREMENTS FOR STRUCTURAL GRADE STEEL IN ACCORDANCE WITH THE REQUIREMENTS.
3. ALL CONCRETE SHALL BE CLASS 47B-3,000
4. MINIMUM DEPTH OF EMBEDMENT FOR REINFORCING STEEL TO BE AS NOTED.
5. ALL REINFORCING STEEL SHALL BE EPOXY COATED.



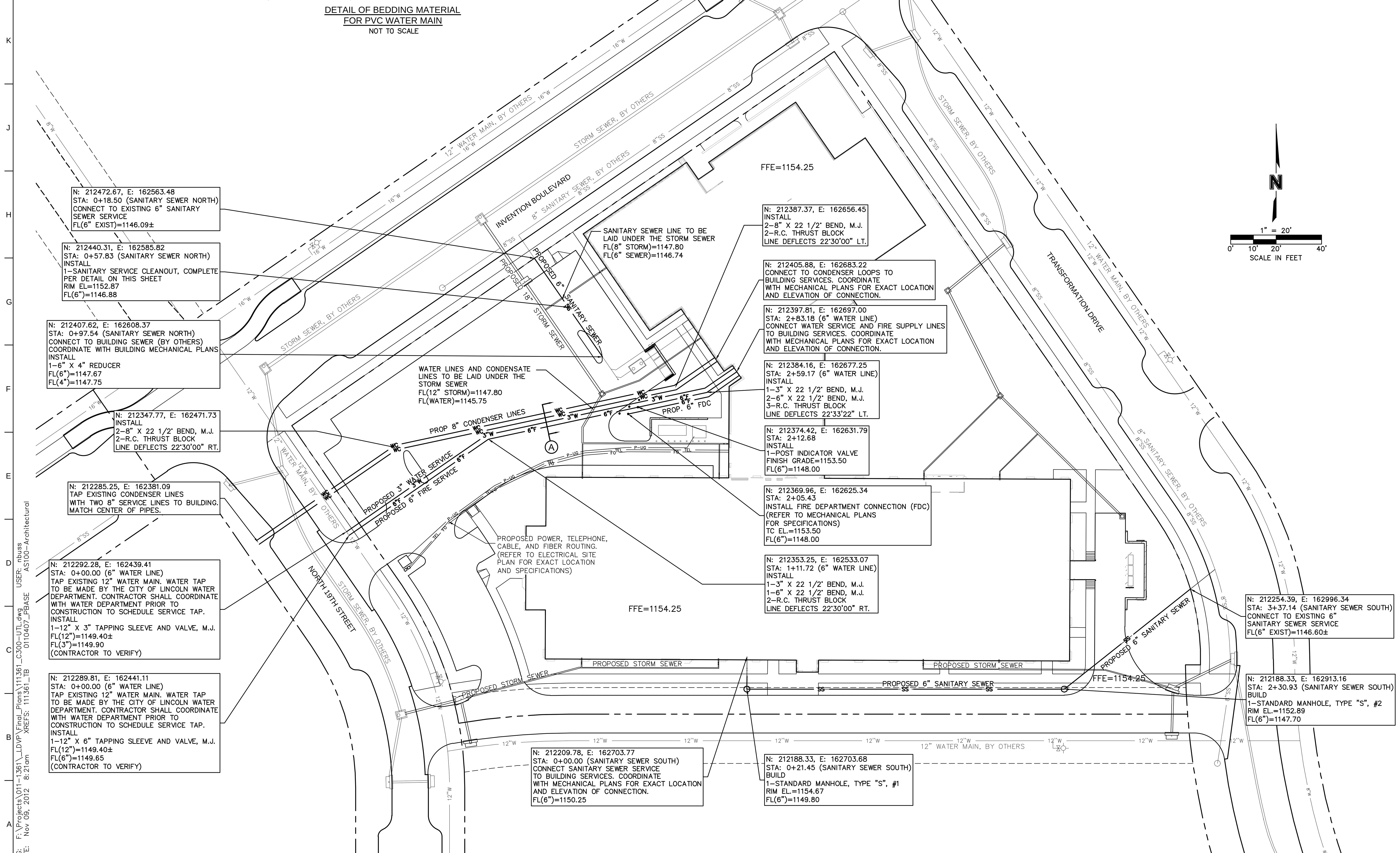
ELEVATION

SECTION C-C

REINFORCED CONCRETE THRUST BLOCKS
NOT TO SCALE

DIA.	Θ = 11 1/4° A	B	C	ROUND BAR SIZE	# OF BARS EACH WAY	STEEL LBS.	CONC. CU. FEET	DIA.	Θ = 22 1/2° A	B	C	ROUND BAR SIZE	# OF BARS EACH WAY	STEEL LBS.	CONC. CU. FEET
6"	1'-3"	0'-9"	0'-9"	#4	2	2.0	0.1	6"	1'-6"	0'-9"	0'-9"	#4	2	2.7	0.1
8"	1'-6"	1'-0"	1'-0"	#4	3	4.0	0.1	8"	1'-6"	1'-0"	1'-0"	#4	3	4.0	0.1
12"	1'-6"	1'-0"	1'-0"	#4	3	4.0	0.1	12"	2'-3"	1'-0"	1'-0"	#4	3	7.0	0.2

DIA.	Θ = 45° A	B	C	ROUND BAR SIZE	# OF BARS EACH WAY	STEEL LBS.	CONC. CU. FEET	DIA.	Θ = 90° A	B	C	ROUND BAR SIZE	# OF BARS EACH WAY	STEEL LBS.	CONC. CU. FEET
6"	1'-9"	1'-0"	1'-0"	#4	2	5.0	0.3	6"	2'-3"	1'-0"	1'-0"	#4	3	7.0	0.3
8"	2'-3"	1'-0"	1'-0"	#4	3	7.0	0.3	8"	3'-0"	1'-0"	1'-0"	#4	6	20.0	0.4
12"	3'-3"	1'-0"	1'-0"	#4	3	22.0	0.4	12"	4'-3"	1'-0"	1'-3"	#5	6	42.0	0.9



UTILITY NOTES

ELECTRICAL SERVICE

1. ELECTRICAL TRANSFORMER PAD TO BE BUILT BY SITE CONTRACTOR. COORDINATE WITH LINCOLN ELECTRIC SYSTEM FOR EXACT SIZE, LOCATION, AND MATERIALS USED FOR PAD.
2. COORDINATE WITH ELECTRICAL SITE PLAN FOR EXACT ROUTING AND INSTALLATION.
3. REFER TO BUILDING ELECTRICAL PLANS FOR CONTINUATION OF SERVICE IN BUILDING.
4. REFER TO ELECTRICAL SITE PLAN FOR PARKING LOT LIGHTING.

TELEPHONE SERVICE

1. COORDINATE WITH ELECTRICAL SITE PLAN FOR EXACT ROUTING AND INSTALLATION.
2. REFER TO BUILDING ELECTRICAL PLANS FOR CONTINUATION OF SERVICE IN BUILDING.

CABLE TELEVISION

1. COORDINATE WITH ELECTRICAL SITE PLAN FOR EXACT ROUTING AND INSTALLATION.
2. REFER TO BUILDING ELECTRICAL PLANS FOR CONTINUATION OF SERVICE IN BUILDING.

GAS MAIN

1. UNDERGROUND GAS SERVICE TO BE BUILT BY BLACK HILLS ENERGY. COORDINATE WITH BLACK HILLS ENERGY FOR EXACT LOCATION AND SCHEDULING OF CONSTRUCTION.
2. REFER TO BUILDING MECHANICAL PLANS FOR CONTINUATION OF SERVICE IN BUILDING.

GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN STRICT LATERAL CLEARANCE AS SHOWN ON THE PLANS FOR ALL UTILITY LINES.
2. IN ANY OF THE MAIN OR SERVICE ROUTES ARE ADJUSTED IN THE FIELD BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE ENGINEER A RECORD OF THE EXACT LOCATIONS, AT THE CONTRACTOR'S EXPENSE, A LICENSED SURVEYOR SHALL BE RETAINED TO LOCATE THE CONDUIT ROUTES. THE CONTRACTOR SHALL PROVIDE THE SURVEYED LOCATIONS TO THE ENGINEER IN ELECTRONIC FORMAT.
3. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED PER THE SPECIFICATIONS IN THE GEOTECHNICAL REPORT.
4. THE CONTRACTOR SHALL RESTORE ANY DISTURBED AREA TO ITS PREVIOUS CONDITION.
5. ALL CONDUITS SHALL BE TERMINATED 5 FEET FROM THE BUILDING.
6. THE CONTRACTOR SHALL VERIFY ALL VERTICAL AND HORIZONTAL CROSSINGS OF ALL PROPOSED AND EXISTING UTILITIES PRIOR TO INSTALLATION OF CONDUIT. CONTACT THE ENGINEER WITH ANY CONFLICTS.
7. ALL CONDUIT STUBS SHALL BE CAPPED AND MARKED ABOVE GROUND WITH REBAR AND A FLAG.

PRIVATE SANITARY SEWER SERVICE NOTES

1. FOR DETAILS OF C.I. MANHOLE RING, COVER, AND STEPS, SEE LINCOLN STANDARD PLAN – 162.
2. FOR DETAILS OF STANDARD SEWER MANHOLE TYPE "S" (LINE) AND TYPE "R" (OUTSIDE DROP), SEE LINCOLN STANDARD PLAN – 200.
3. FOR DETAILS OF PIPE BEDDING, SEE LINCOLN STANDARD PLAN – 185.
4. FOR DETAILS OF STANDARD SANITARY SEWER SERVICES, SEE LINCOLN STANDARD PLAN – 210.
5. FOR DETAILS OF PAVEMENT REPLACEMENT FOR UTILITY CONSTRUCTION, SEE LINCOLN STANDARD PLAN – 670.
6. FOR DETAILS OF SANITARY SEWER CONSTRUCTION, SEE STANDARD SPECIFICATION, CHAPTER 22, 2006 EDITION, CITY OF LINCOLN, NEBRASKA. ALL STANDARD SPECIFICATIONS AND ADDENDA SHALL APPLY.
7. USE 3' COUPLINGS AS REQUIRED BY STANDARD SPECIFICATIONS. MINIMUM PIPE LENGTH = 6.25'
8. SANITARY SEWERS SHALL BE SEPARATED BY AT LEAST 10 FT. (3.48 M) HORIZONTALLY FROM ANY EXISTING OR PROPOSED PARALLEL WATER MAINS, MEASURED EDGE TO EDGE.
9. AT ALL WATER MAIN CROSSINGS, SANITARY SEWERS SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SANITARY SEWER IS AT LEAST 18 IN (457 MM) BELOW THE BOTTOM OF THE WATER MAIN. IN THOSE INSTANCES WHERE THE BOTTOM OF THE WATER MAIN IS LESS THAN 18 IN (457 MM), ABOVE THE TOP OF THE SANITARY SEWER OR THE SANITARY SEWER IS LOCATED ABOVE THE WATER MAIN, THE SANITARY SEWER SHALL BE CONSTRUCTED USING A 20 FT. (6.10 M) LENGTH OF PVC PRESSURE PIPE, MEETING THE REQUIREMENTS OF AWWA C900 FOR DR18, PRESSURE RATING 150 PSI (1034 KPA), CENTERED ON THE WATER MAIN.
10. ALL SANITARY SEWER WILL BE DONE UNDER A PLUMBERS PERMIT, AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
11. PRIOR TO FINAL ACCEPTANCE ALL SEWER MAIN SHALL BE AIR TESTED BY THE CONTRACTOR @ 5 LBS FOR 15 MINUTES, IN ACCORDANCE WITH THE LINCOLN PLUMBING CODE.
12. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL HAVE THE SEWER MAIN TV INSPECTED AND THE COST OF SUCH WORK SHALL BE SUBSIDIARY TO THE PRICE BID FOR SEWER WITH INSTALLATION.
13. PRIOR TO FINAL ACCEPTANCE, VACUUM TESTING SHALL BE PERFORMED ON ALL MANHOLES TO CONFORM TO THE REQUIREMENTS OF STANDARD TEST METHOD FOR CONCRETE MANHOLES BY THE "NEGATIVE AIR PRESSURE (VACUUM) TEST" ASTM DESIGNATION C-1244.
14. CONTRACTOR SHALL VERIFY PROPOSED SANITARY SEWER MANHOLE RIM ELEVATIONS TO BE WITHIN ±0.25' TOLERANCE WITH EXISTING GROUND SURFACE. CONTRACTOR SHALL ADJUST MANHOLE RIM ELEVATIONS TO BE WITHIN TOLERANCE. ADJUSTMENTS SHALL BE A SUBSIDIARY TO THE PRICE BID FOR STANDARD SEWER MANHOLE, TYPE "S".
18. REFER TO MECHANICAL PLANS FOR SANITARY SEWER TIE-INS WITH BUILDING(S).
19. BUILD 1 ½" P.V.C. RISER PIPE WITH 1 ½" SOLVENT WELDED CAP, AT THE END OF SANITARY SEWER SERVICE.
20. CLEAN-OUTS TO BE BUILT AS PER CITY OF LINCOLN CODE.
21. ALL PIPE, SERVICE PIPE, AND FITTINGS SHALL BE SCHEDULE 40 PVC.

PRIVATE WATER SERVICE NOTES

1. FOR DETAILS OF PIPE BEDDING, SEE LINCOLN STANDARD PLAN – 185.
2. FOR DETAILS OF R.C. COLLARS, THRUST BLOCKS, ANCHORAGES, TEE BLOCKS, AND PLUG BLOCKS, REFER TO DETAILS ON SHEET C302.
3. FOR DETAILS OF WATER TAPPING PIT AND THRUST COLLAR FOR PVC PIPE, SEE LINCOLN STANDARD PLAN – 340.
4. FOR DETAILS OF WATER MAIN CONSTRUCTION, SEE STANDARD SPECIFICATION, CHAPTER 23, 2006 EDITION, CITY OF LINCOLN, NEBRASKA. ALL STANDARD SPECIFICATIONS AND ADDENDA SHALL APPLY.
5. ALL ANCHORING COUPLINGS TO BE 18" IN LENGTH UNLESS OTHERWISE NOTED.
6. PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE PRESSURE TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF LINCOLN STANDARD SPECIFICATIONS, CHAPTER 23, WATER MAINS, 2011 EDITION.
7. PRIOR TO FINAL ACCEPTANCE ALL WATER MAIN PIPE SHALL BE DISINFECTED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF LINCOLN STANDARD SPECIFICATIONS, CHAPTER 23, WATER MAINS, 2011 EDITION.
8. FOR PVC WATER MAIN CONSTRUCTION, ALL FITTINGS SHALL BE DUCTILE IRON WRAPPED WITH POLYWRAP. POLYWRAP SHALL BE LINEAR LOW DENSITY POLYETHYLENE FILM MANUFACTURED OF VIRGIN POLYETHYLENE MATERIAL. MINIMUM THICKNESS SHALL BE 8 MIL. POLYWRAP SHALL BE IN ACCORDANCE WITH DRAFT OF AWWA C105 REVISION, DOUBLE WRAPPED (2 LAYERS) AND TAPED AS PER CITY OF LINCOLN STANDARD SPECIFICATION.
9. WHERE THE WATER MAIN IS TO BE CONSTRUCTED BELOW OR WITHIN 18 INCHES (0.5 M) OF ANY SEWER PIPE, THE CONTRACTOR SHALL LAY A FULL LENGTH OF WATER MAIN PIPE CENTERED ON THE SEWER OR SUCH LENGTH AS WILL PROVIDE THE MAXIMUM POSSIBLE SEPARATION OF THE JOINTS IN THE WATER MAIN FROM THE SEWER LINE. IF NOT ALREADY SO, THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER WITH ONE 20 FOOT (6 M) NOMINAL LENGTH OF PRESSURE PIPE MATERIAL CENTERED ON THE WATER MAIN AS PROVIDED IN SECTION 22.02(B), SUCH THAT THE MAXIMUM POSSIBLE SEPARATION BETWEEN THE WATER MAIN AND THE SEWER PIPE JOINTS WILL RESULT. THE BACKFILL MATERIAL SHALL BE SELECT, LOW PERMEABILITY SOIL.
10. ALL WATER MAIN CONSTRUCTION TO BE DONE UNDER A PLUMBERS PERMIT AND SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES.
11. ALL WATER METERS, PUMPS, AND BACKFLOW PREVENTERS ARE LOCATED INSIDE BUILDING. REFER TO MECHANICAL PLANS FOR DESIGN AND LOCATIONS.
12. WATER SERVICE PIPE SHALL HAVE A 5.0' MINIMUM BURY DEPTH AS MEASURED FROM FINISHED GROUND TO TOP OF PIPE.
13. SITE SHALL BE TO FINISHED GRADE PRIOR TO INSTALLATION OF WATER SERVICE.
14. MATERIAL OF PIPE FROM TAP OF PUBLIC WATER MAIN TO METER IN BUILDING SHALL BE TYPE "K" SEAMLESS COPPER (3/4" TO 3"), DUCTILE IRON PIPE (3" AND LARGER), OR AWWA C900 PVC (3" AND LARGER) PER LOCAL CODES AND REGULATIONS.
15. REFER TO ARCHITECTURAL PLANS FOR WATER SERVICE TIE-INS WITH BUILDING.

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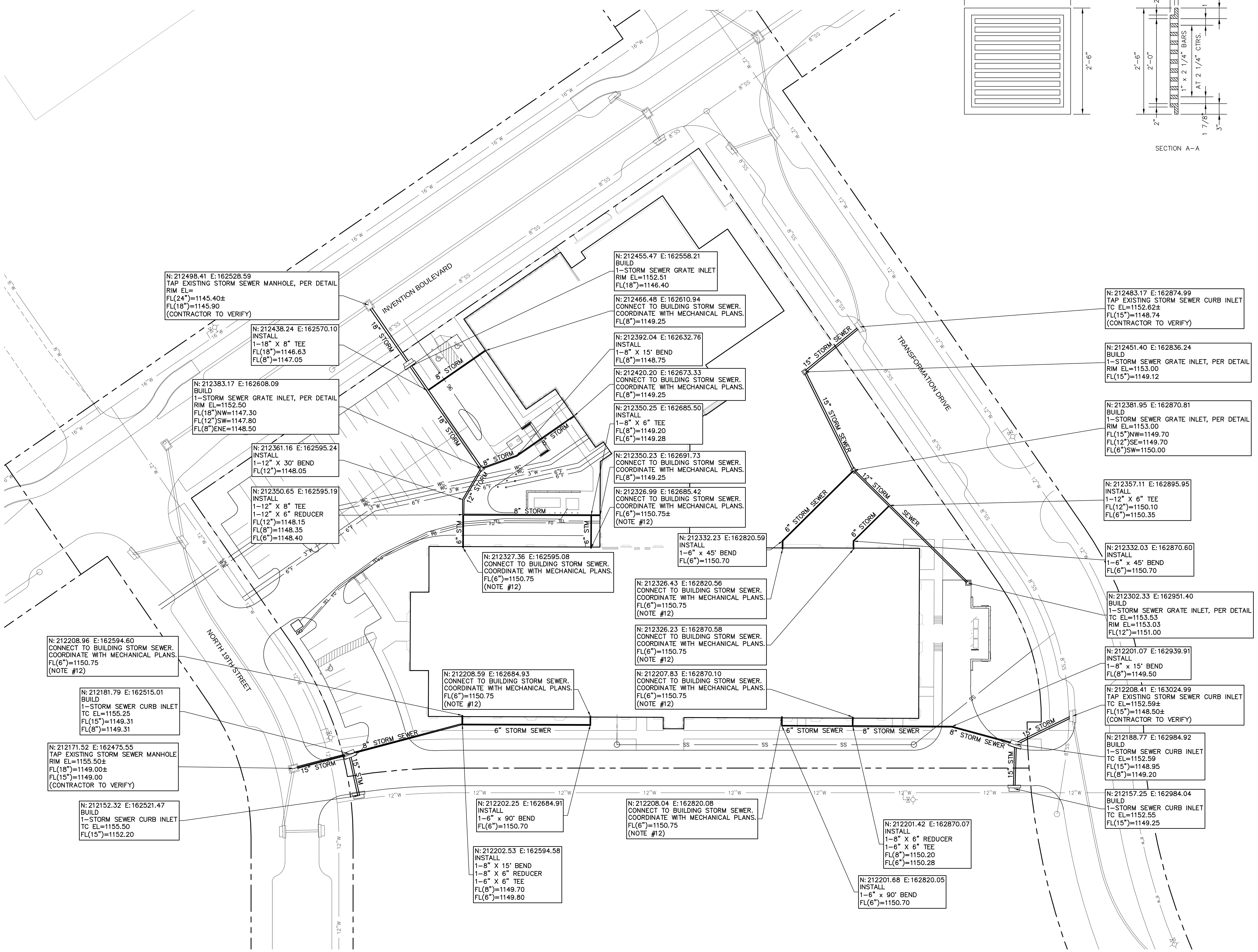
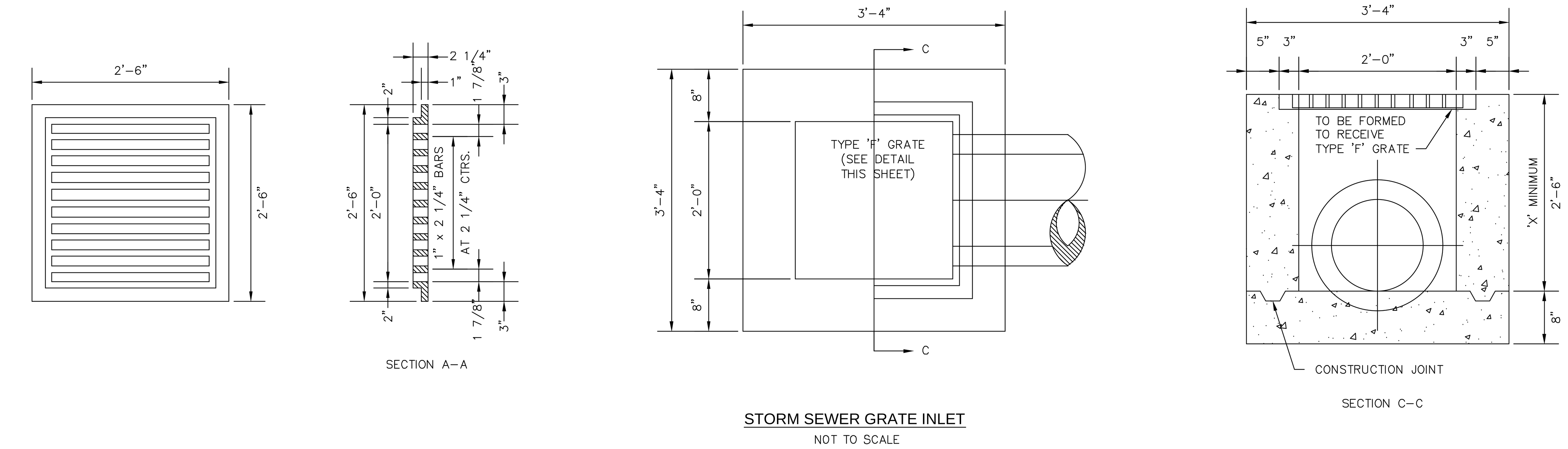
UTILITY PLAN

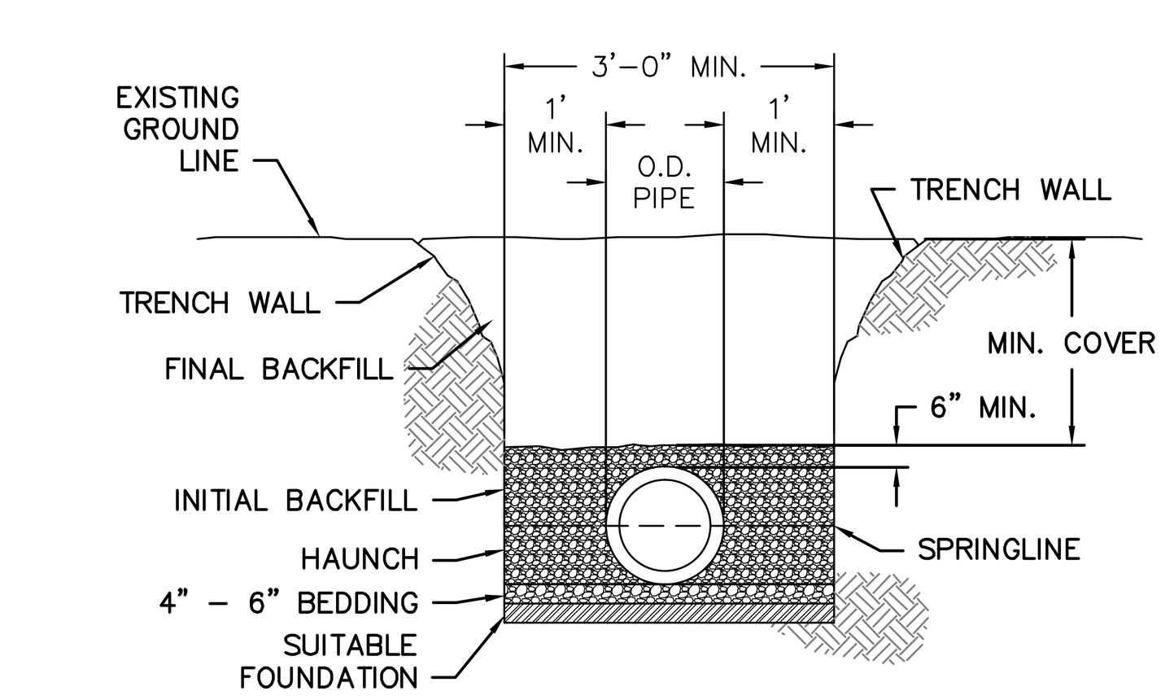
SHA PROJECT NO. 11053

C300





STORM SEWER GRATE INLET
NOT TO SCALE



HDPE PIPE BEDDING DETAIL
NOT TO SCALE

1" = 30'
0' 15' 30' 60'
SCALE IN FEET

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PRIVATE STORM SEWER NOTES

1. FOR DETAILS OF TYPE "A–2" STORM SEWER INLET, SEE LINCOLN STANDARD PLAN – 101.
2. BUILD 72" STORM SEWER INLET (COMPLETE) DOES NOT INCLUDE LENGTH OF CURB AS SHOWN ON LINCOLN STANDARD PLAN – 101.
3. FOR DETAILS OF TYPE "M–2" STORM SEWER MANHOLE, SEE LINCOLN STANDARD PLAN – 142.
4. FOR DETAILS OF R.C. COLLARS, R.C. ELBOWS, AND PLUGS, SEE LINCOLN STANDARD PLAN – 150.
5. FOR DETAILS OF C.I. MANHOLE RING, COVER, AND STEPS, SEE LINCOLN STANDARD PLAN – 162.
6. FOR DETAILS OF STORM SEWER CONSTRUCTION, SEE STANDARD SPECIFICATION, CHAPTER 21, 2006 EDITION, CITY OF LINCOLN, NEBRASKA. ALL STANDARD SPECIFICATIONS AND ADDENDA SHALL APPLY.
7. FOR DETAILS OF PAVEMENT REPLACEMENT FOR UTILITY CONSTRUCTION, SEE LINCOLN STANDARD PLAN – 670.
8. ALL STATIONING AND DIMENSIONS ARE TO BE CENTERLINE OF VAULT UNLESS OTHERWISE NOTED.
9. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR THE INLET THROAT AND CURB AND GUTTER UP TO THE INLET TOP.
10. ALL STORM SEWER PIPE MATERIAL 12" AND SMALLER SHALL BE ADVANCED DRAINAGE SYSTEMS (ADS) PRODUCT OR APPROVED EQUAL.
11. ALL STORM SEWER PIPE MATERIAL TO CONFORM TO LOCAL CODES.
12. COORDINATE BUILDING STORM DRAIN INVERTS WITH EXISTING ABANDONED STORM DRAIN INVERTS AND EXISTING STRUCTURE.

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DATE: Nov 09, 2012 8:33am XREFS: 0110407_PBASE AS100-Architectural 111361_TB VMAP

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PROJECT ARCHITECT: CMB
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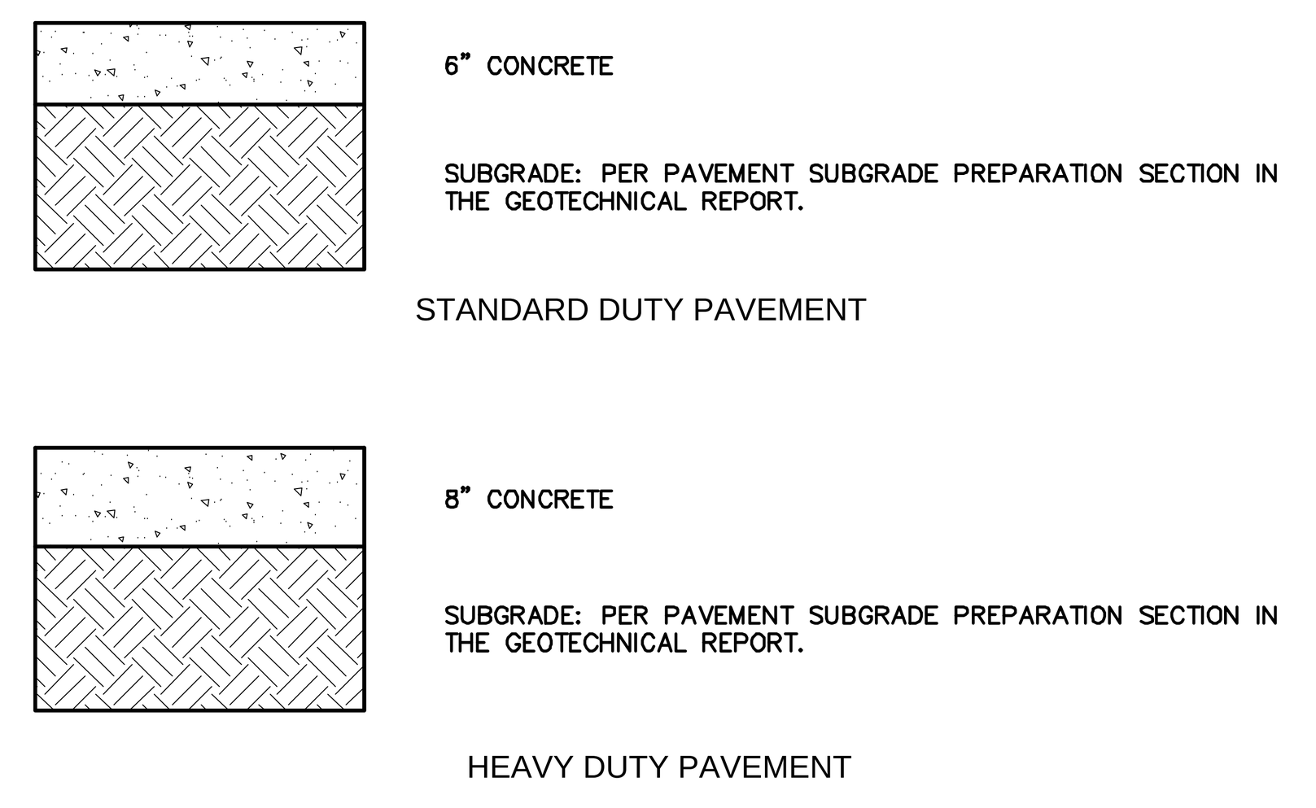
STORM SEWER PLAN

SHA PROJECT NO. 11053

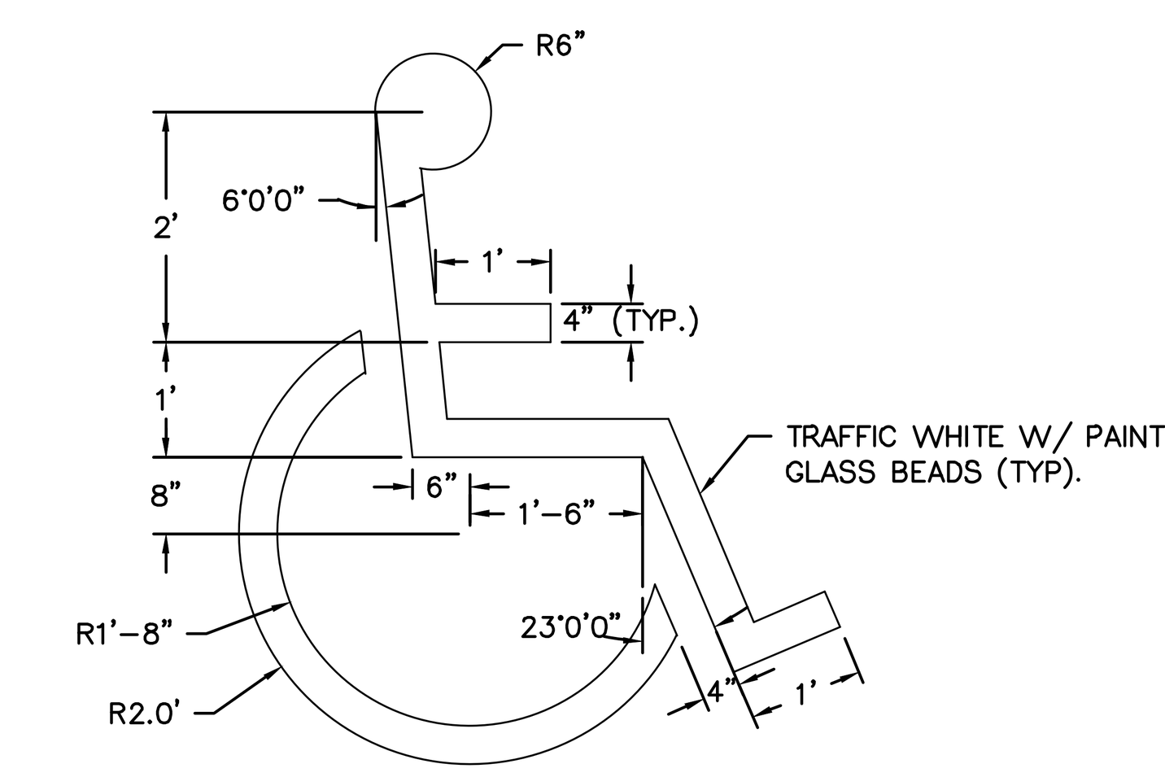
C301



CONCRETE PAVEMENT SECTIONS
NOT TO SCALE

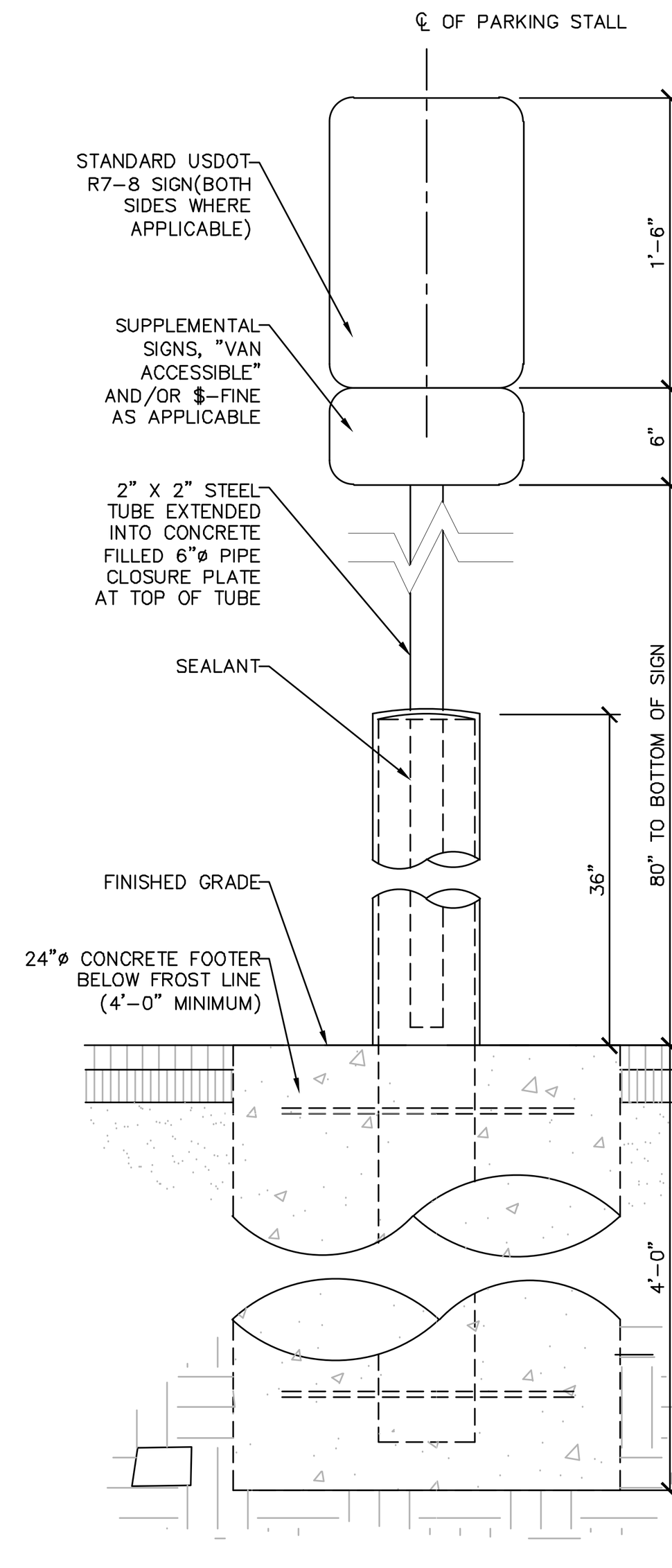
PAVING NOTES

1. FOR DETAILS OF PAVEMENT CONSTRUCTION, SEE STANDARD SPECIFICATION, CHAPTER 1, 2006 EDITION, CITY OF LINCOLN, NEBRASKA. ALL STANDARD SPECIFICATIONS, ADDENDA SHALL APPLY.
2. THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING THE INLET TOP AND BUILDING THE COMBINED CURB AND GUTTER THROUGH THE CONCRETE INLET TOP.
3. FOR DETAILS OF PAVEMENT MARKINGS, SEE STANDARD SPECIFICATION, CHAPTER 13, 2006 EDITION, CITY OF LINCOLN, NEBRASKA. ALL STANDARD SPECIFICATIONS AND ADDENDA SHALL APPLY.

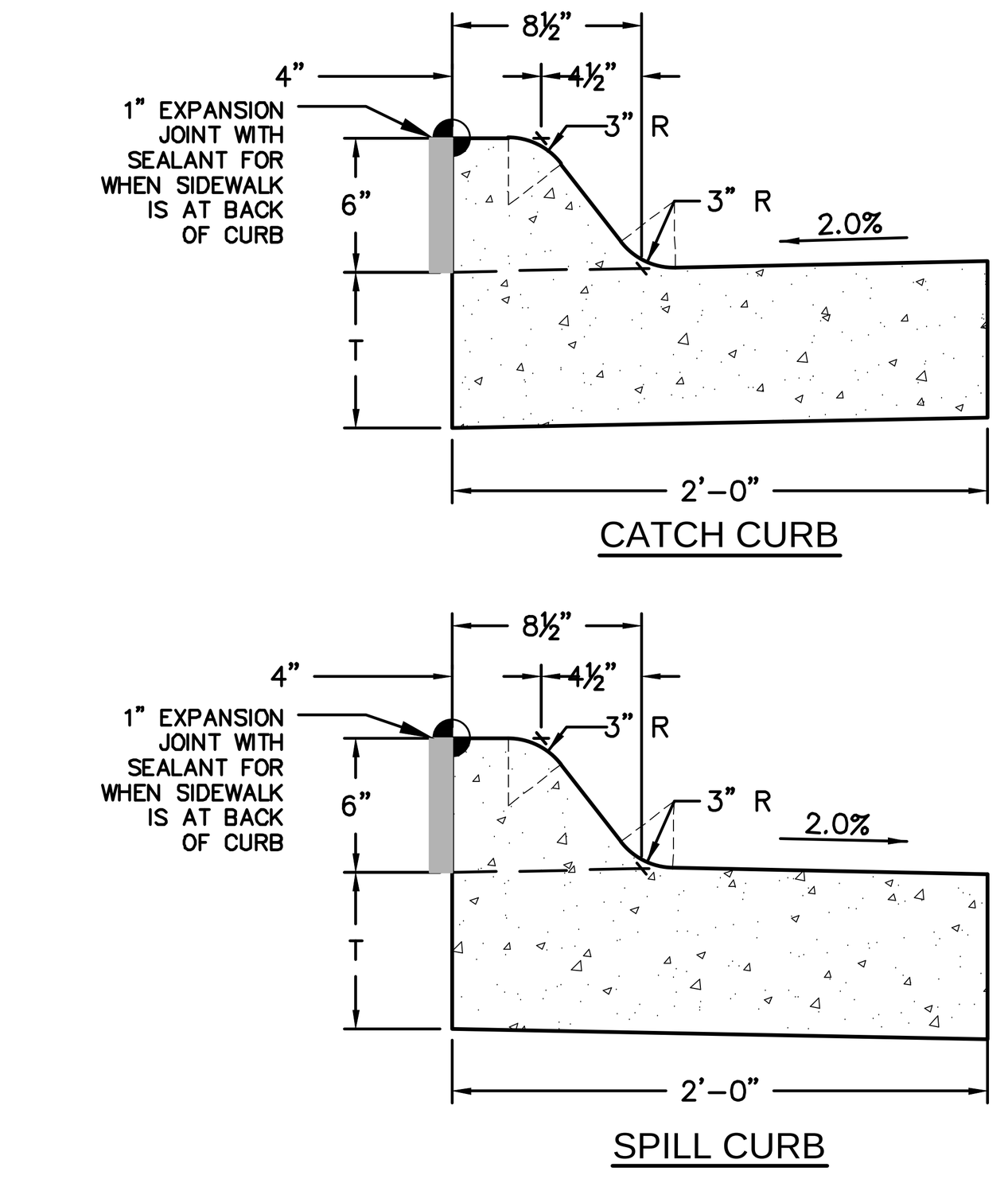


NOTE: SYMBOL TO BE CENTERED IN PARKING SPACE AND ORIENTED AS ILLUSTRATED ON PLANS.

HANDICAP PARKING PAVEMENT MARKING DETAIL
NOT TO SCALE



POST MOUNTED ACCESSIBILITY SIGN
NOT TO SCALE



GENERAL NOTES:

1. 3/4" ISOLATION JOINTS WITH 5/8" DIA. X 2' SMOOTH DOWELS SHALL BE PLACED AT RADIUS POINTS AND AT 150' INTERVALS. THESE DOWEL BARS SHALL BE GREASED AND WRAPPED ON ONE END WITH EXPANSION TUBES.
2. 1" DEEP CONTRACTION JOINTS SHALL BE INSTALLED AT APPROXIMATELY 10' INTERVALS. THESE JOINTS SHALL PASS ACROSS THE ENTIRE CURB SECTION.
3. FIX DOWEL BARS WITH BAR SUPPORTS.
4. DEPTH OF CURB SHALL BE A MINIMUM OF 8" THROUGH HANDICAP ACCESSIBLE RAMP.

COMBINATION CURB AND GUTTER DETAIL
NOT TO SCALE

REPRESENTS TOP OF CURB

POINT TABLE LEGEND

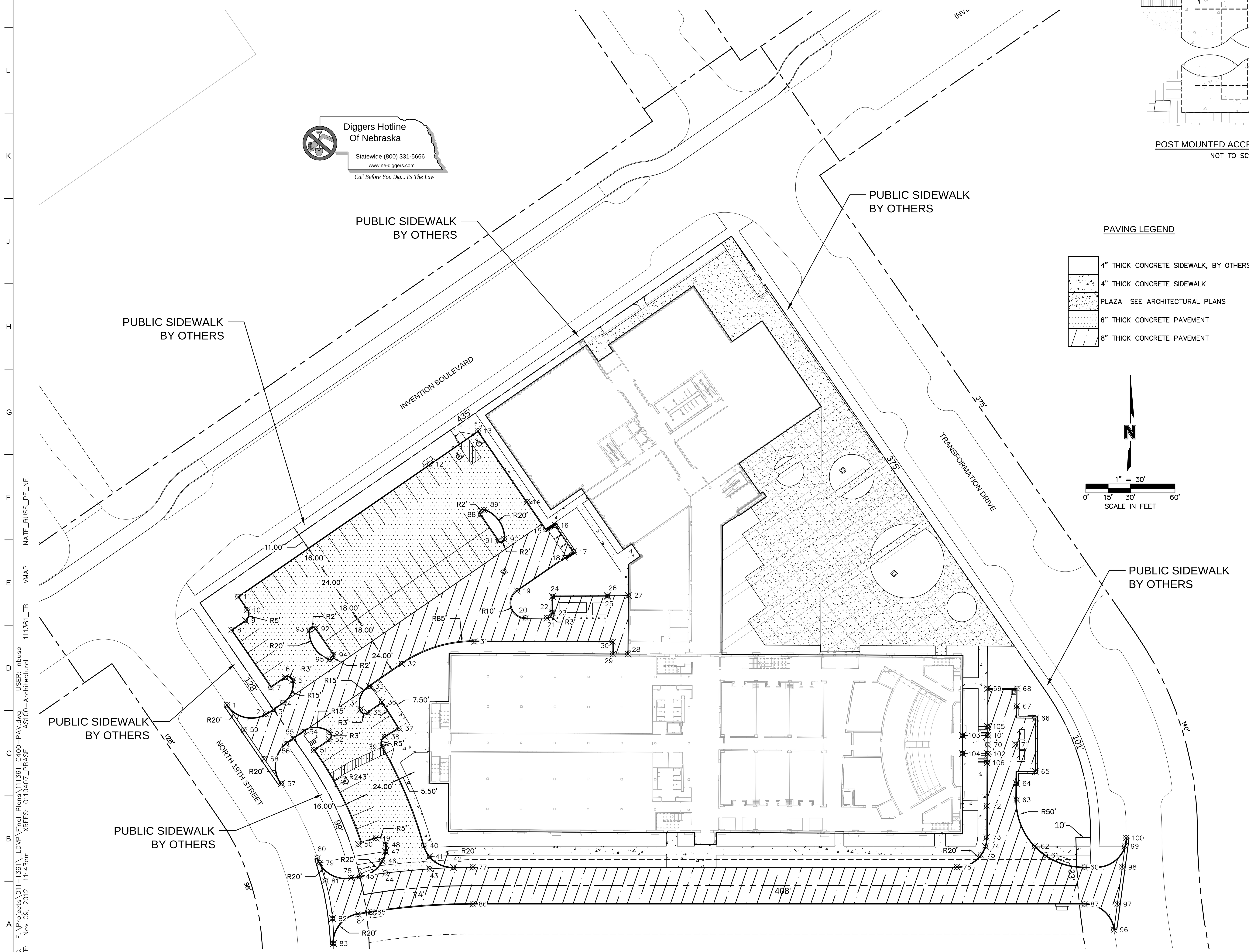
TC = TOP OF CURB

TS = TOP OF SLAB

EXIST = MATCH EXISTING

PAVING LEGEND

4" THICK CONCRETE SIDEWALK, BY OTHERS
4" THICK CONCRETE SIDEWALK
PLAZA SEE ARCHITECTURAL PLANS
6" THICK CONCRETE PAVEMENT
8" THICK CONCRETE PAVEMENT



POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	212293.41	162421.62	1154.55	TC EXIST
2	212287.25	162447.74	1155.50	TC/TS
3	212290.58	162452.73	1155.62	TC/TS
4	212295.12	162459.32	1156.04	TC
5	212310.07	162465.57	1155.86	TC
6	212312.02	162460.92	1155.93	TC
7	212305.26	162451.11	1156.05	TC
8	212343.94	162424.42	1155.59	TC
9	212350.47	162433.89	1155.48	TC
10	212357.43	162435.17	1155.39	TC
11	212366.48	162428.92	1155.29	TC
12	212455.61	162558.12	1152.87	TC
13	212478.06	162590.67	1153.41	TC
14	212430.32	162623.60	1153.86	TC
15	212411.78	162636.40	1153.69	TC
16	212414.49	162642.61	1153.20	TS
17	212396.65	162654.92	1153.20	TS
18	212392.55	162649.25	1153.67	TC
19	212370.28	162616.98	1153.17	TC
20	212352.05	162622.62	1153.57	TC
21	212351.99	162637.05	1153.71	TC
22	212355.48	162640.05	1153.79	TC
23	212355.47	162640.71	1153.31	TS
24	212366.50	162640.76	1153.48	TS
25	212366.35	162677.79	1154.04	TS
26	212367.32	162677.79	1154.04	TS
27	212367.28	162691.79	1154.25	TS

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
28	212327.76	162691.65	1154.25	TS
29	212327.81	162681.38	1154.60	TS
30	212335.81	162681.41	1154.20	TC
31	212336.19	162587.94	1154.20	TC
32	212321.16	162539.32	1154.41	TC
33	212306.03	162517.39	1154.85	TC/TS
34	212290.19	162511.32	1155.16	TC
35	212288.44	162515.97	1155.27	TC
36	212295.44	162525.90	1155.47	TC
37	212277.75	162537.45	1155.48	TC
38	212272.04	162528.00	1155.37	TC
39	212265.25	162526.26	1155.42	TC/TS
40	212198.80	162554.19	1155.71	TC/TS
41	212191.45	162558.02	1155.50	TC/TS
42	212184.15	162574.03	1155.35	TC
43	212183.13	162558.05	1155.01	TS
44	212180.30	162528.23	1154.81	TS
45	212178.09	162511.01	1155.17	TC
46	212188.40	162526.06	1155.29	TC/TS
47	212194.72	162528.23	1155.42	TC/TS
48	212199.33	162528.44	1156.02	TC
49	212203.72	162521.87	1156.16	TC
50	212199.75	162510.00	1156.25	TC
51	212263.15	162480.15	1155.93	TC
52	212270.26	162490.25	1155.69	TC
53	212275.14	162490.29	1155.56	TC
54	212275.36	162472.94	1156.04	TC

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
55	212270.82	162466.36	1155.74	TC/TS
56	212267.34	162461.48	1155.62	TC/TS
57	212240.48	162458.11	1154.87	TC EXIST
58	212257.13	162446.63	1154.77	TS EXIST
59	212276.88	162433.02	1154.65	TS EXIST
60	212184.33	162999.04	1152.84	TC
61	212192.33	162972.66	1152.62	TC/TS
62	212198.33	162965.65	1152.81	TC/TS
63	212229.52	162953.27	1152.87	TC
64	212240.69	162953.31	1152.89	TC
65	212248.69	162965.89	1153.65	TS
66	212284.64	162966.03	1153.65	TS
67	212292.69	162953.53	1153.45	TC
68	212304.49	162953.58	1153.33	TC
69	212304.57	162933.58	1153.71	TC
70	212266.80	162933.92	1153.88	TS
71	212266.80	162952.36	1153.22	TS
72	212225.40	162933.25	1153.69	TC
73	212204.41	162933.16	1153.34	TC
74	212198.33	162932.24	1152.99	TC/TS
75	212192.33	162929.16	1152.86	TC/TS
76	212184.33	162913.16	1152.95	TC
77	212184.33	162587.00	1155.23	TC
78	212177.08	162505.08	1155.13	TC
79	212187.15	162483.97	1154.67	TC
80	212190.42	162482.54	1154.89	TC EXIST
81	212174.95	162487.83	1154.64	TS EXIST

POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
82	212149.64	162492.59	1154.65	TS EXIST
83	212132.83	162493.27	1155.12	TC EXIST
84	212152.52	162509.77	1155.24	TC
85	212154.02	162518.74	1155.24	TC
86	212159.33	162587.00	1155.23	TC
87	212159.33	162999.04	1152.84	TC
88	212421.78	162592.44	1153.45	TC
89	212424.81	162594.74	1153.49	TC
90	212405.30	162608.20	1153.44	TC
91	212404.22	162604.55	1153.40	TC
92	212344.84	162480.91	1155.06	TC
93	212343.76	162477.26	1155.13	TC
94	212327.28	162493.02	1155.06	TC
95	212324.25	162490.72	1155.15	TC
96	212142.15	163018.84	1152.42	TC EXIST
97	212159.33	163021.13	1152.06	TS EXIST
98	212184.33	163024.46	1152.21	TS EXIST
99	212198.33	163026.16	1152.56	TC
100	212203.93	163027.07	1152.73	TC EXIST
101	212273.02	162933.95	1153.85	TC/TS
102	212260.52	162933.90	1153.85	TC/TS
103	212273.09	162916.93	1154.25	TS
104	212260.59	162916.87	1154.25	TS
105	212279.02	162933.47	1153.84	TC
106	212254.52	162933.37	1153.84	TC

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DATE: Nov 09, 2012 11:43am XREFS: 0110407_PBASE AS100-Architectural 111361_TB VMAP NATE_BUSS_PE_NE

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SINCLAIR hille architects
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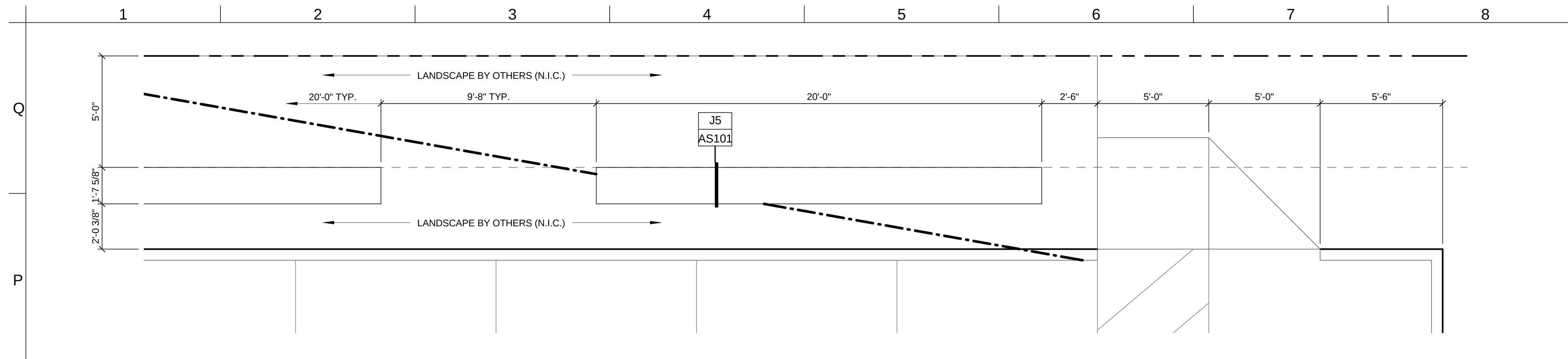
PAVING PLAN

SHA PROJECT NO. 11053

C400

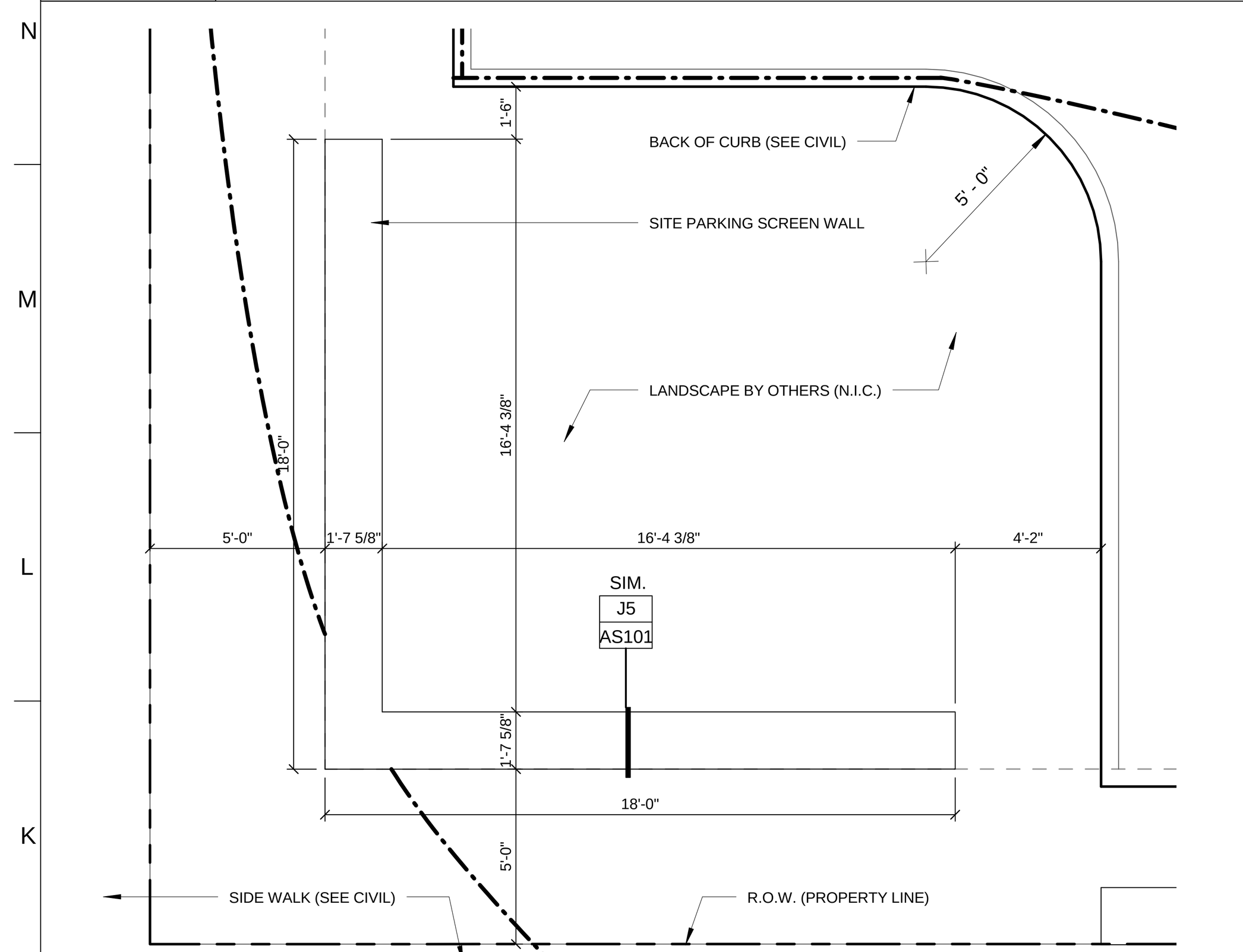
KEYNOTE LEGEND

055000.E	METAL BOLLARD



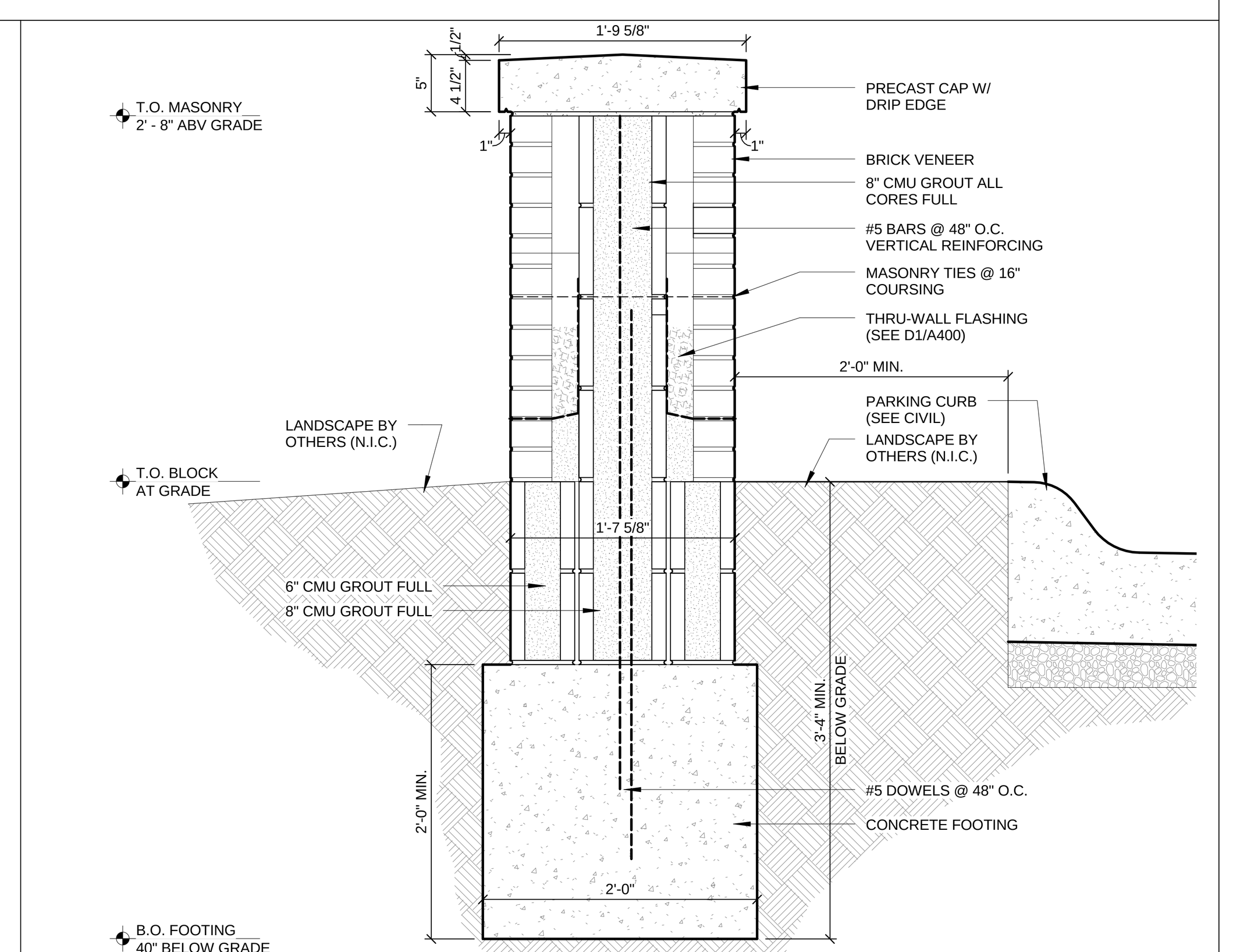
N1 ENLARGED PLAN

SCALE: 1/4" = 1'-0" SITE PARKING SCREEN WALL AT NORTH PARKING BOUNDARY



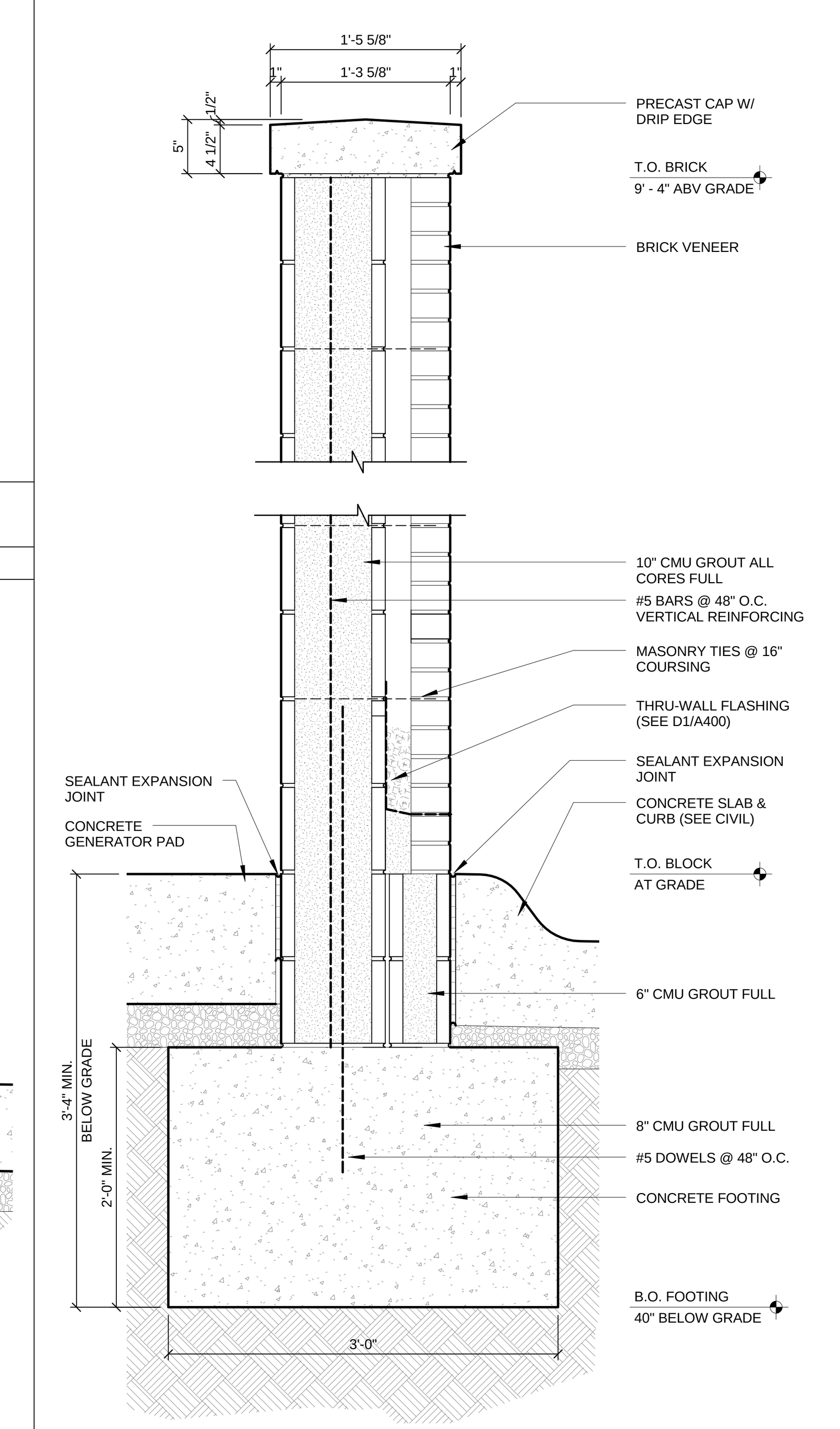
J1 ENLARGED PLAN

SCALE: 1/4" = 1'-0" SITE PARKING SCREEN WALL AT NW CORNER



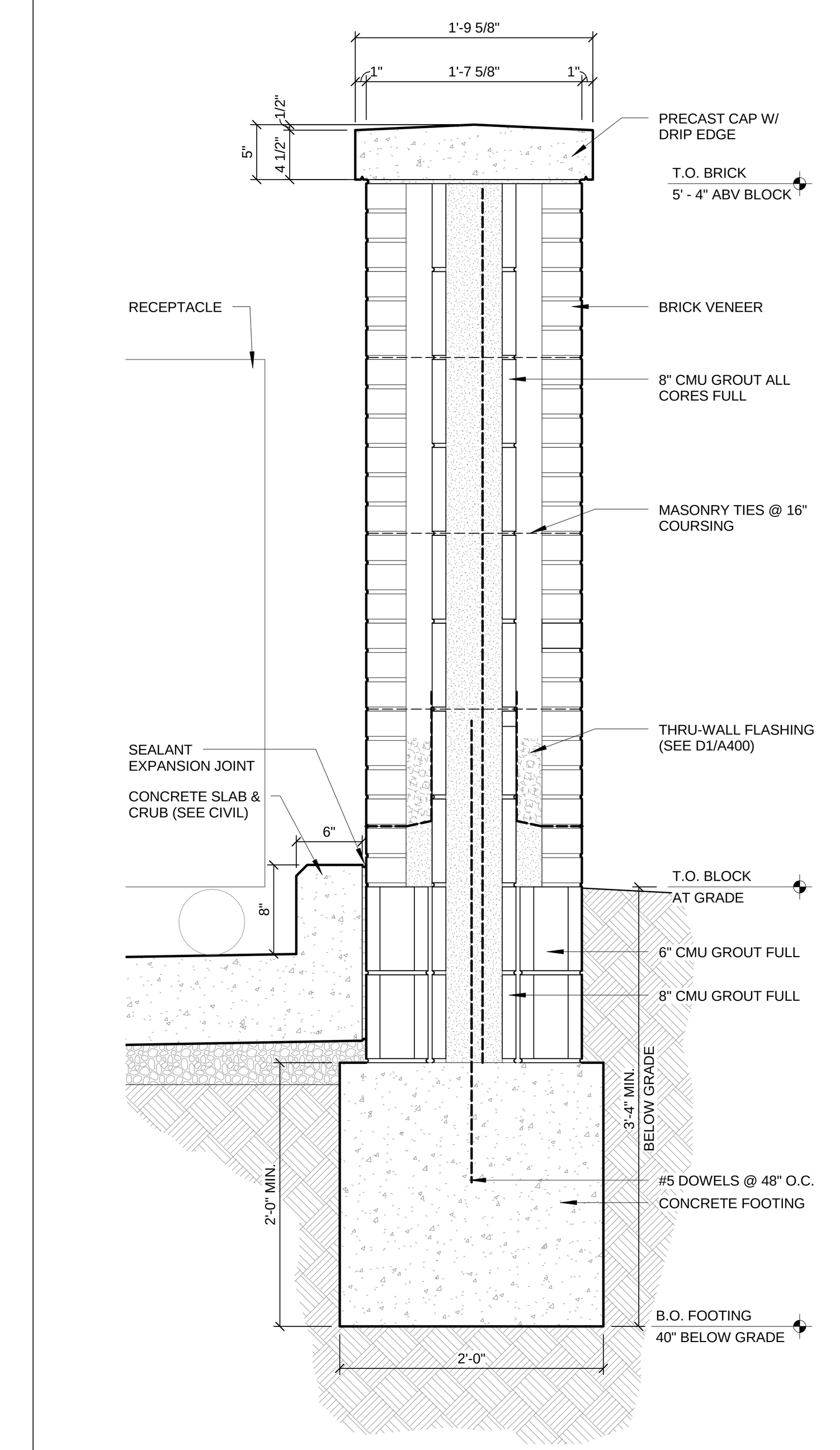
J5 SECTION DETAIL

SCALE: 1" = 1'-0" SITE PARKING SCREEN



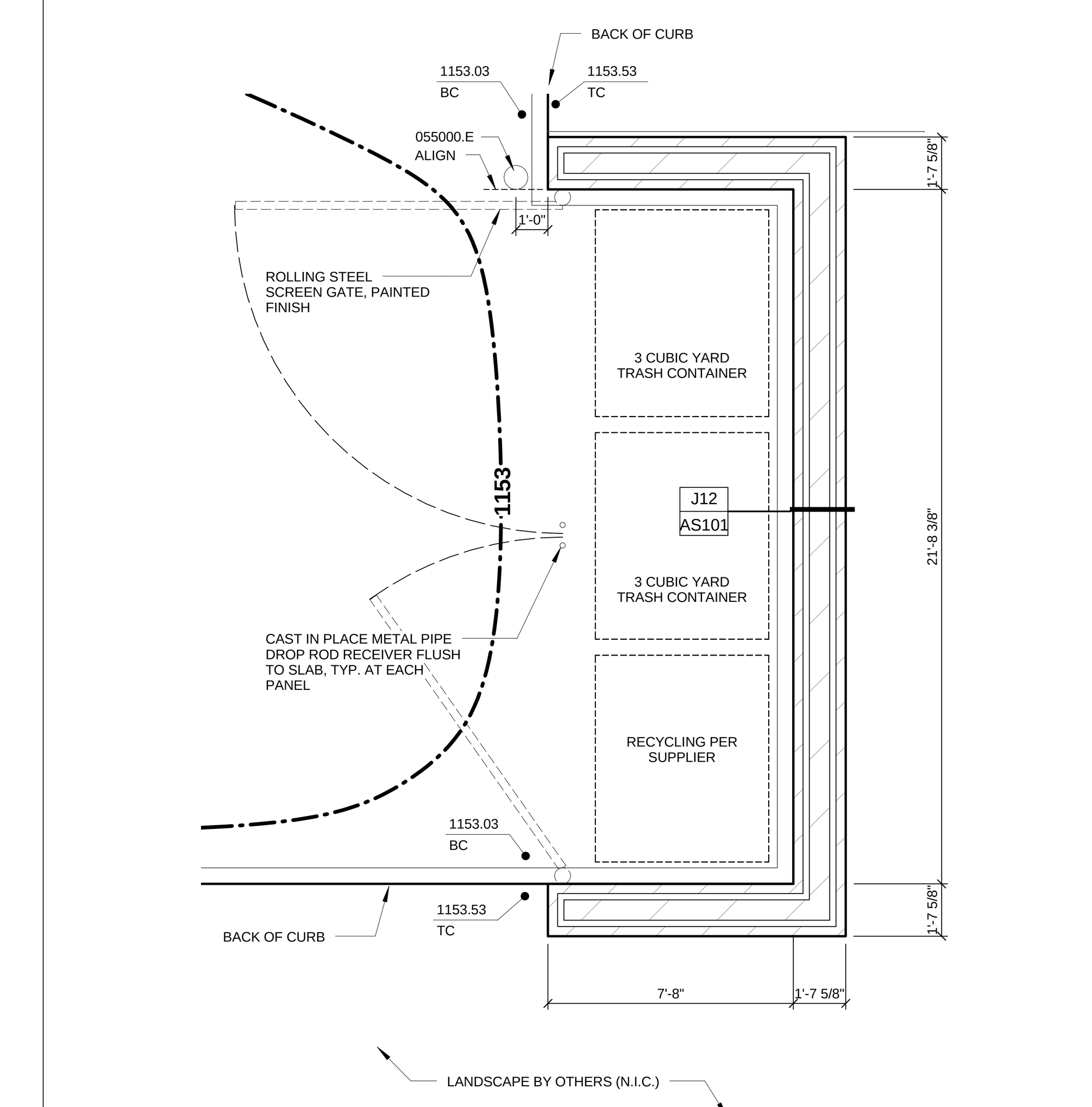
J9 SECTION DETAIL

SCALE: 1" = 1'-0" GENERATOR SCREEN WALL



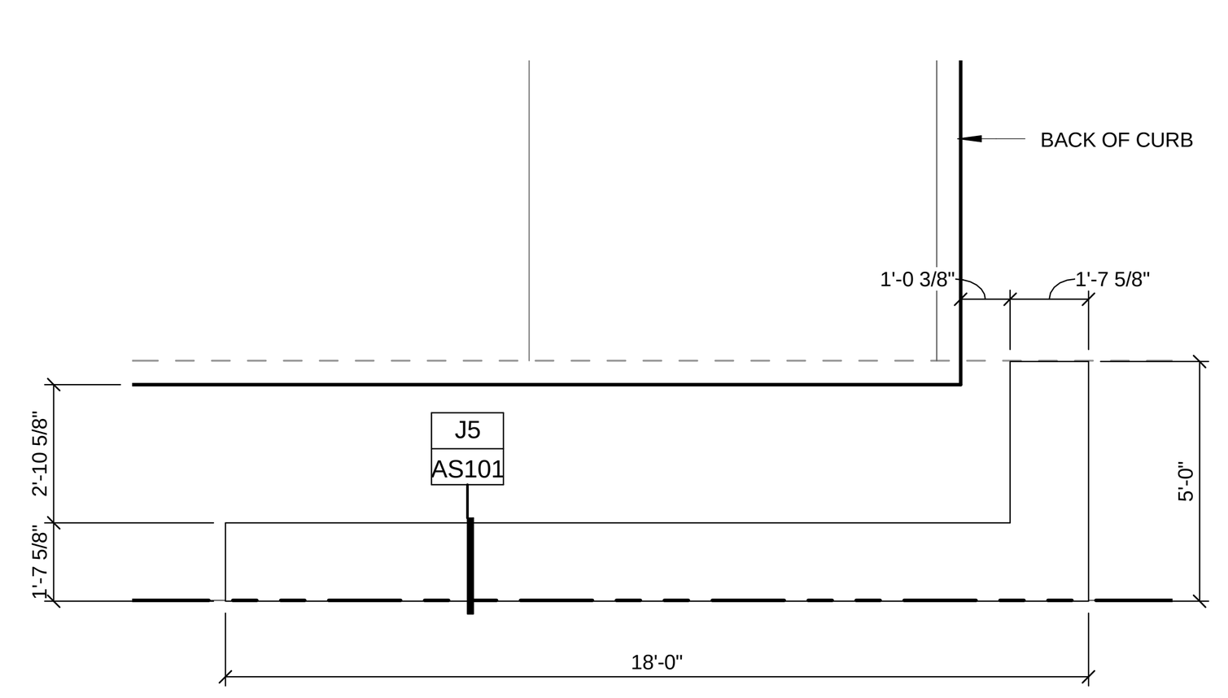
J12 SECTION DETAIL

SCALE: 1" = 1'-0" TRASH ENCLOSURE SCREEN WALL



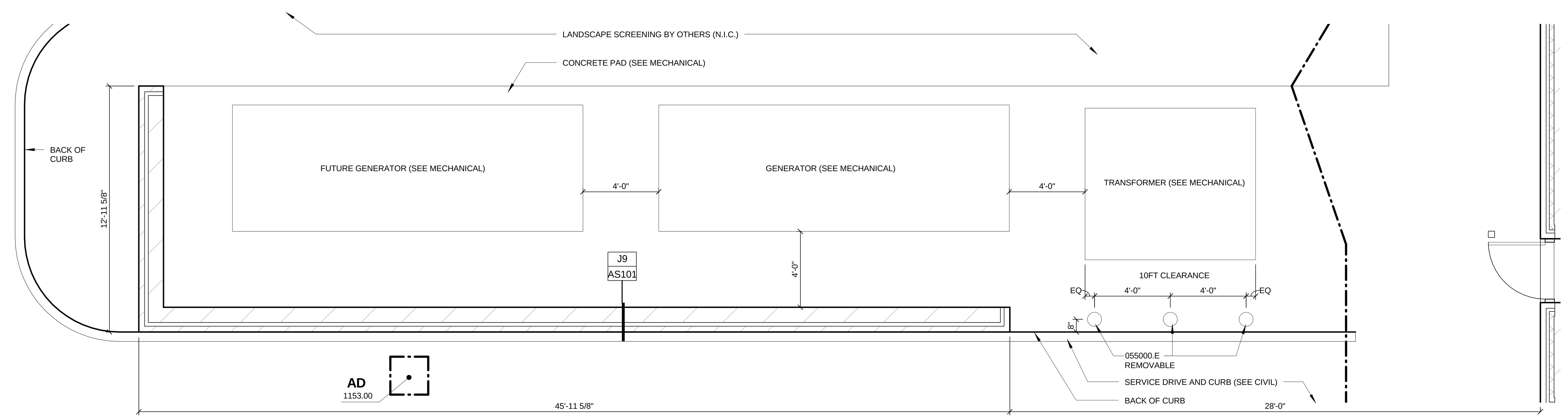
J15 ENLARGED PLAN

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



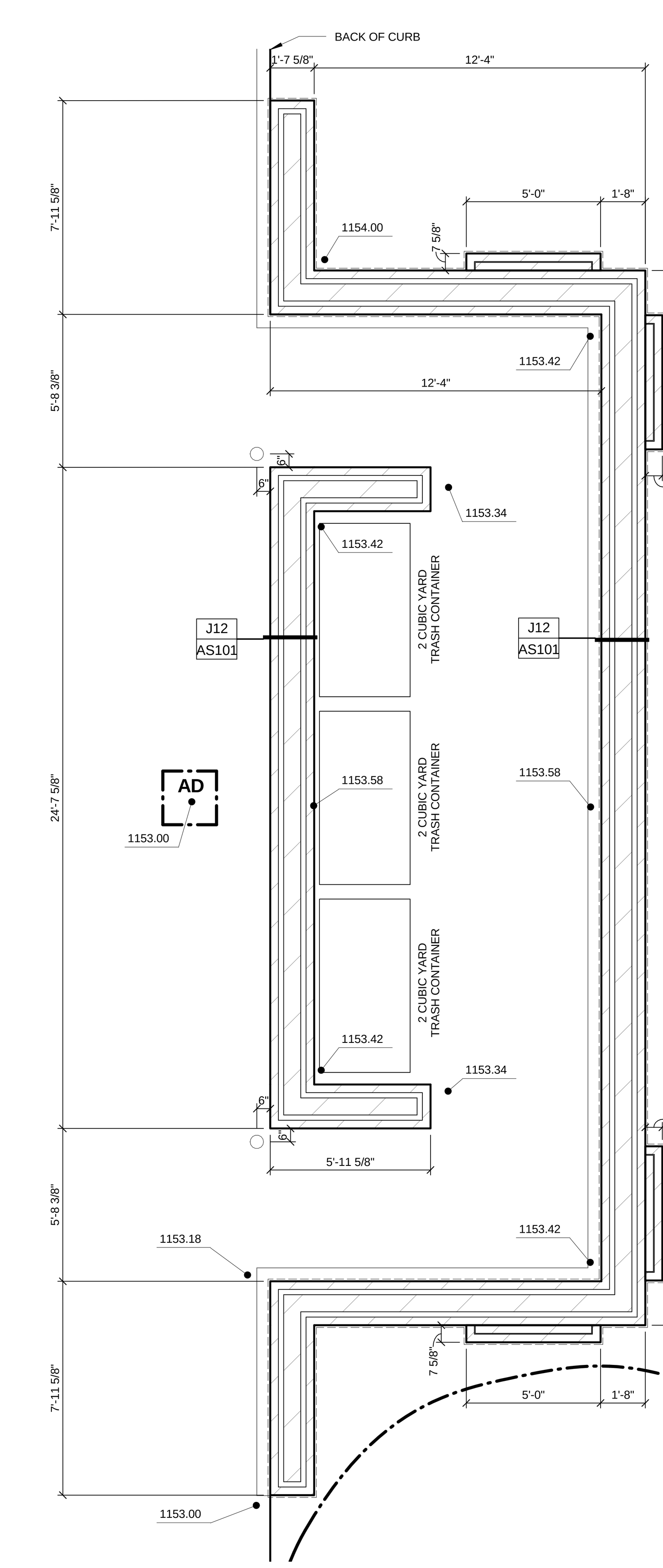
F1 ENLARGED PLAN

SCALE: 1/4" = 1'-0" SITE PARKING SCREEN WALL AT PARKING ENTRY



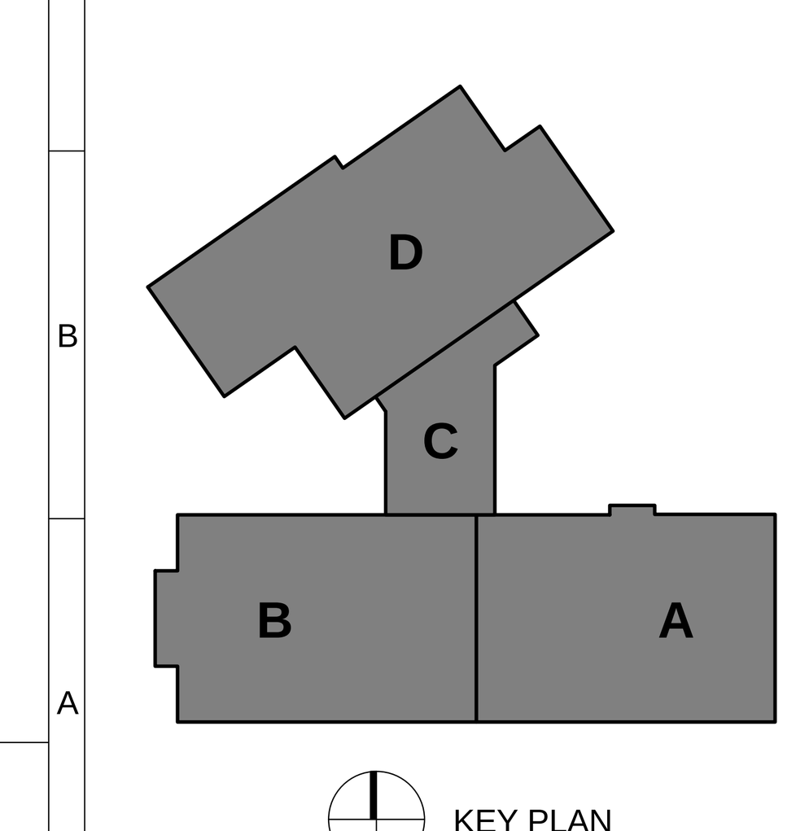
F5 ENLARGED PLAN

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



A15 ENLARGED PLAN

SCALE: 1/4" = 1'-0" TRASH ENCLOSURE - EAST



KEY PLAN

REVISIONS:
ADDENDUM #1 - 11/09/12

DESIGN ARCHITECT: MJP
PROJECT ARCHITECT: CMB
DRAWN BY: Author
ISSUED: 10/29/2012

This document originally issued and sealed by:

Christopher M. Beardslee
Registered Architect
A-2712

On: **November 09, 2012**

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11/9/2012 2:13:18 PM

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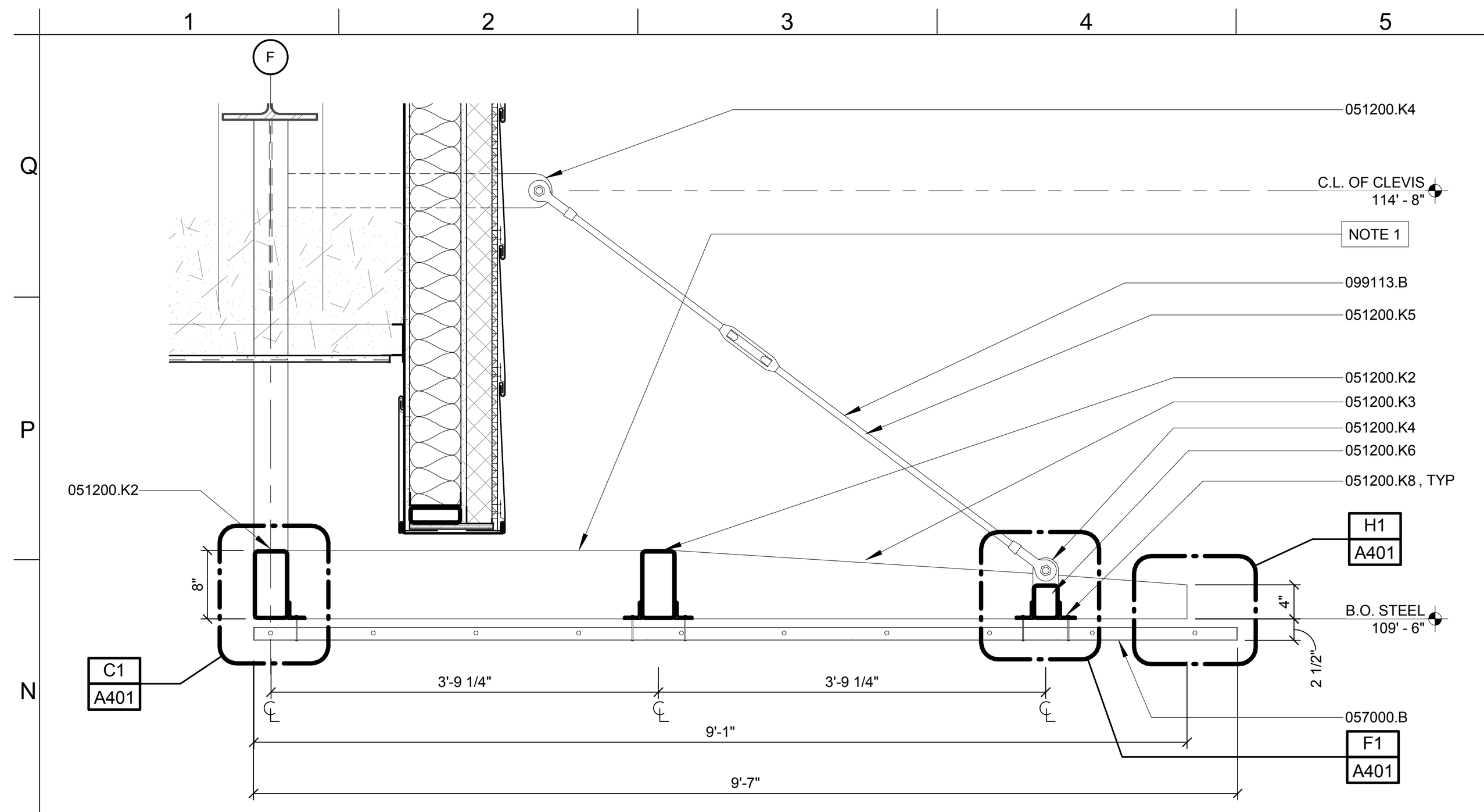
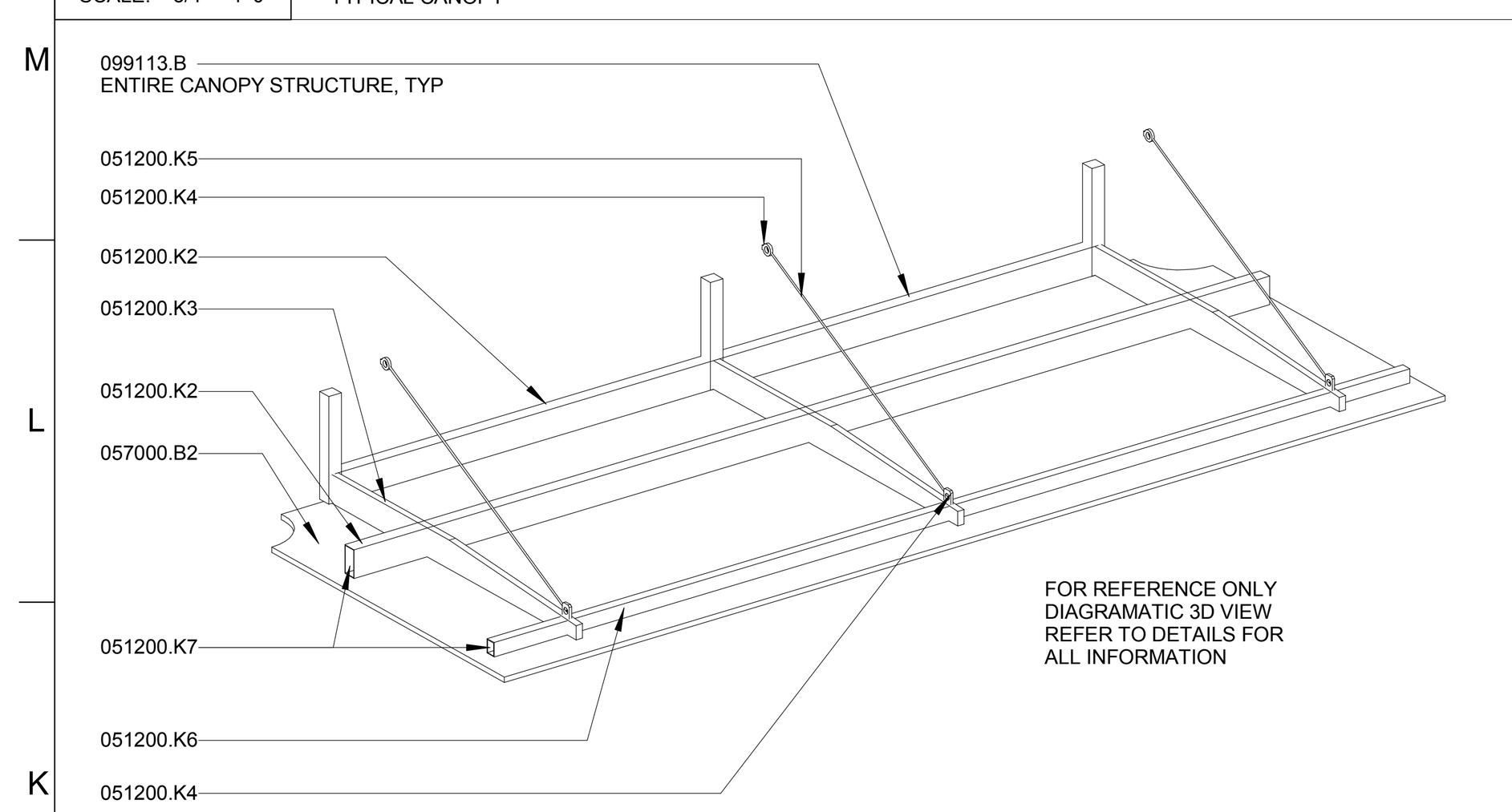
Architectural Site - Enlarged Plans & Details

SHA PROJECT NO. 11053

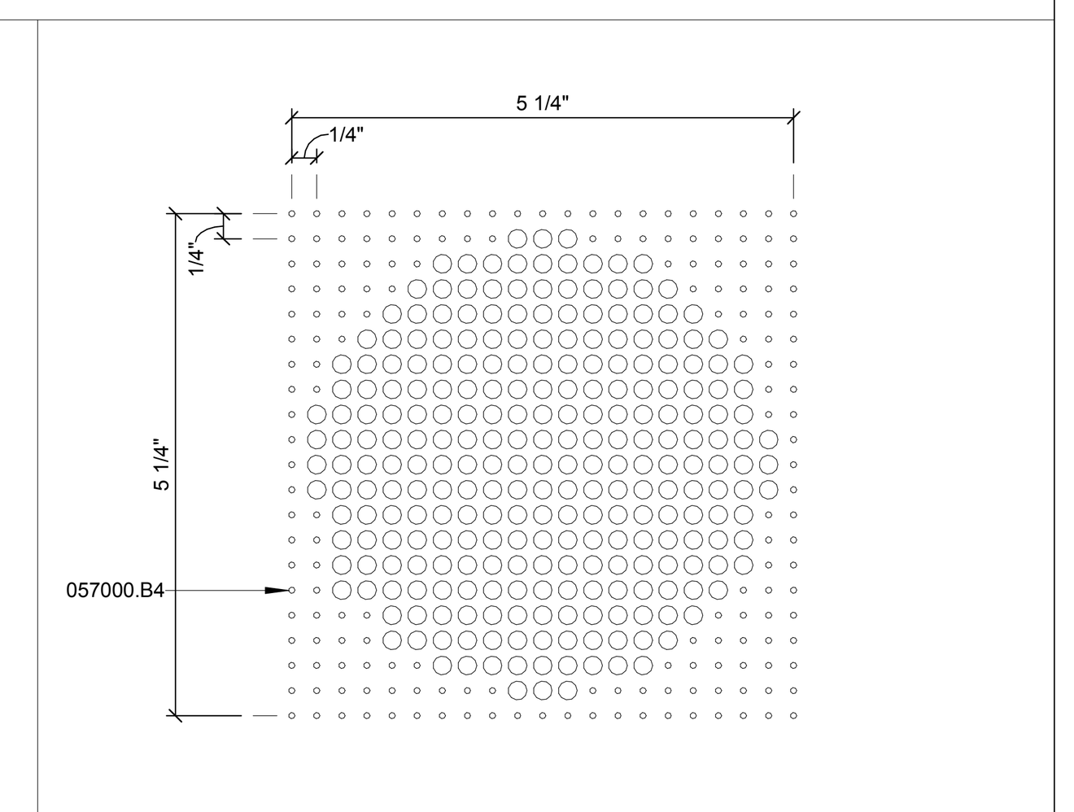
AS101



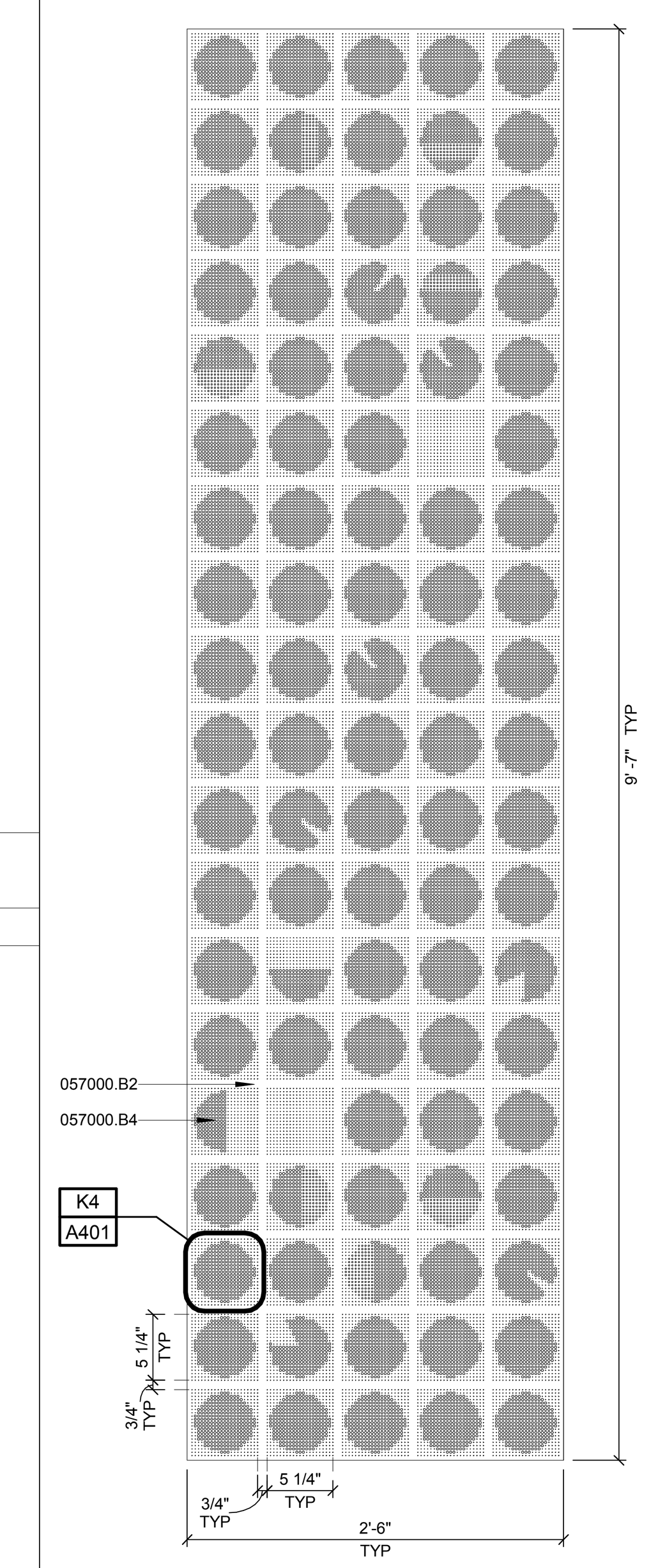
M1 CANOPY SECTION
SCALE: 3/4" = 1'-0" TYPICAL CANOPY



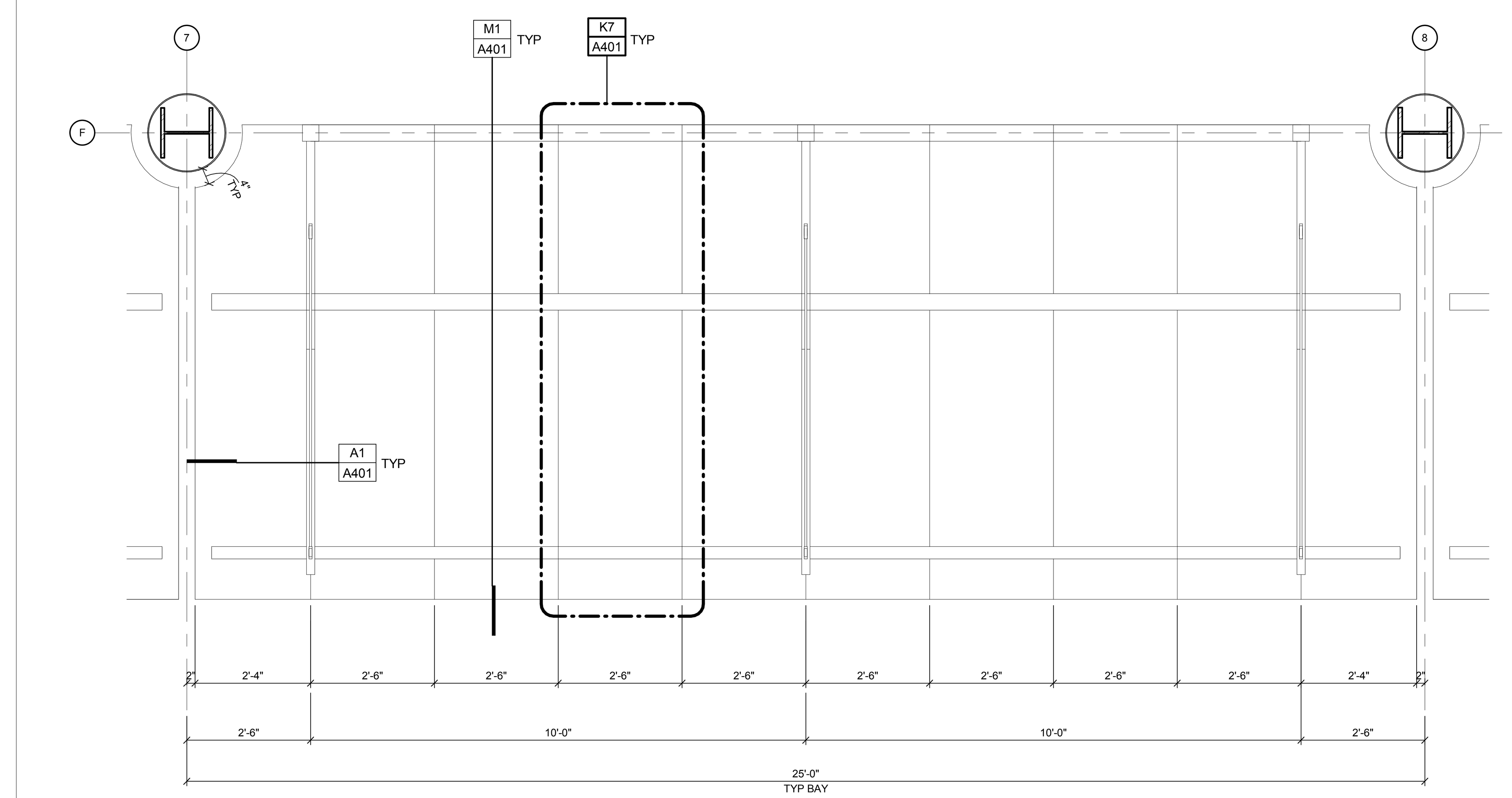
K1 TYPICAL CANOPY BAY
SCALE: TYPICAL CANOPY



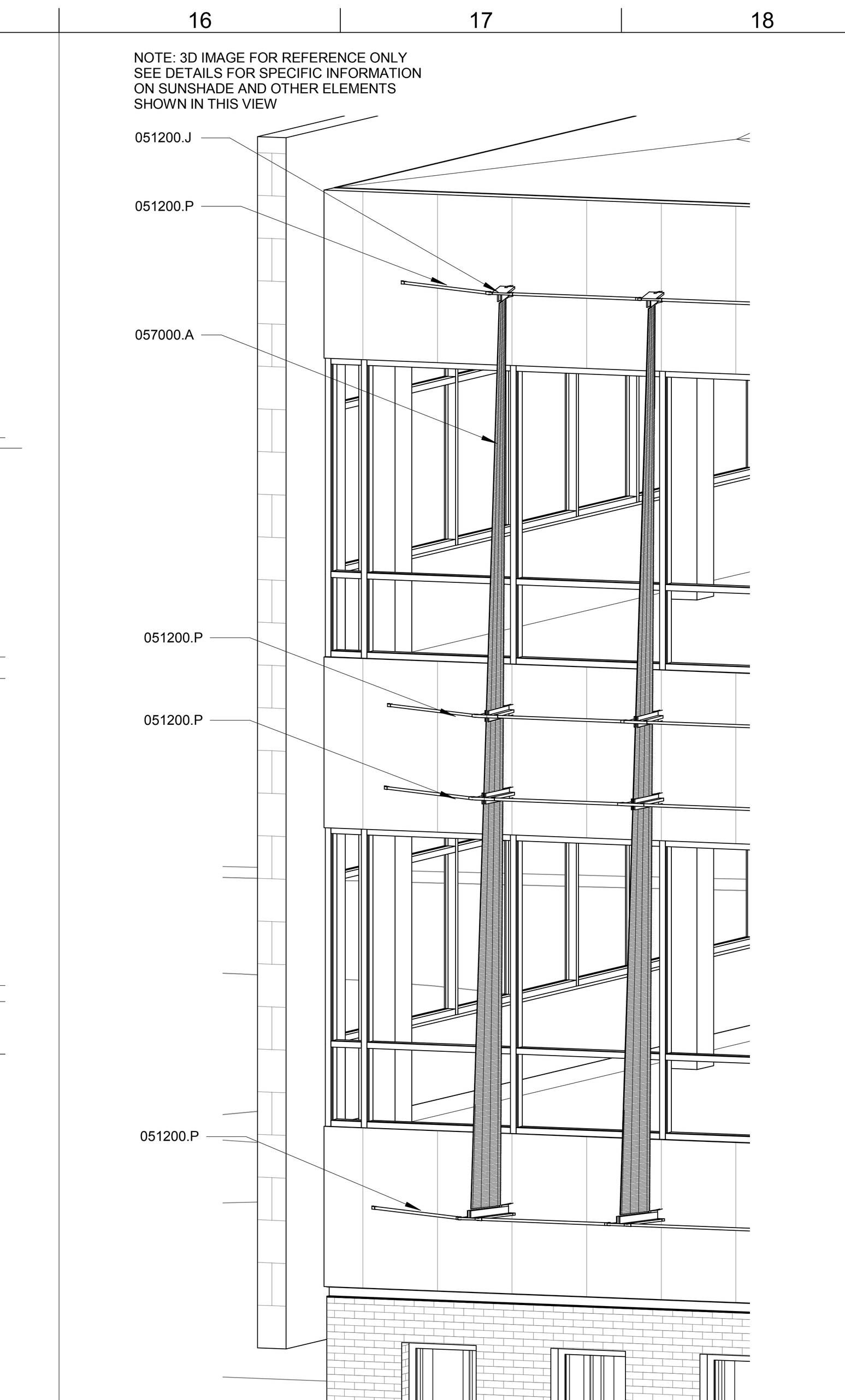
K4 PUNCH PATTERN
SCALE: 6" = 1'-0" FINAL PATTERN TO BE DETERMINED



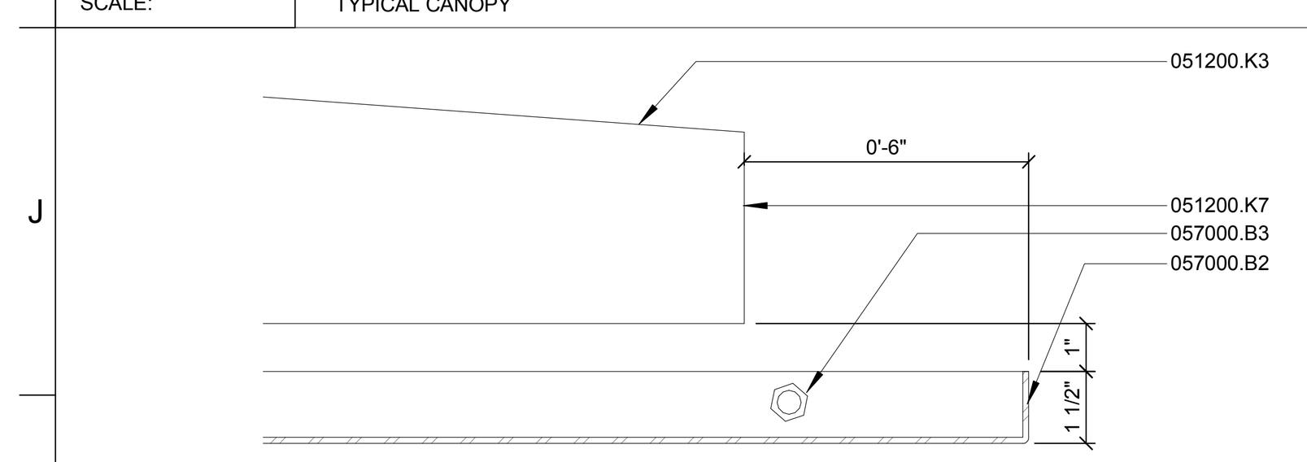
K7 PLAN DETAIL
SCALE: 1" = 1'-0" TYPICAL PANEL



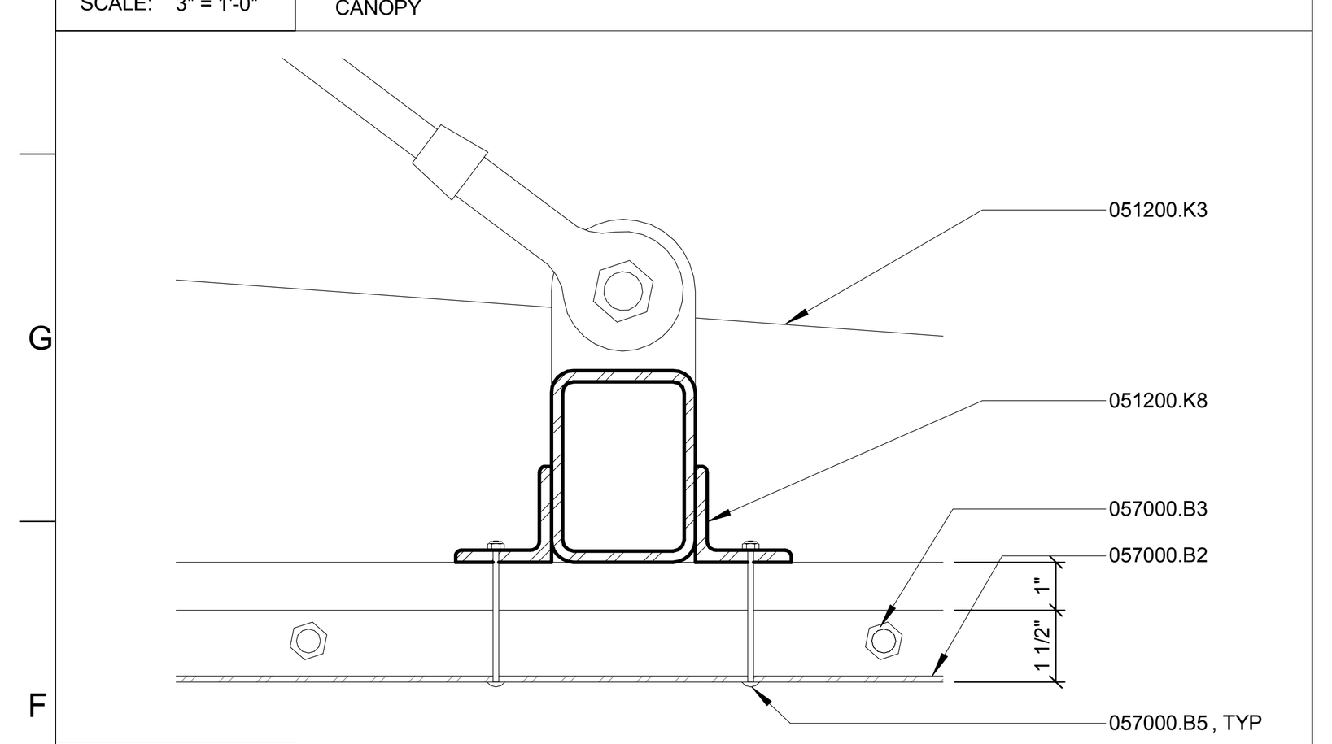
K9 ENLARGED PLAN - CANOPY
SCALE: 1/2" = 1'-0" TYPICAL BAY



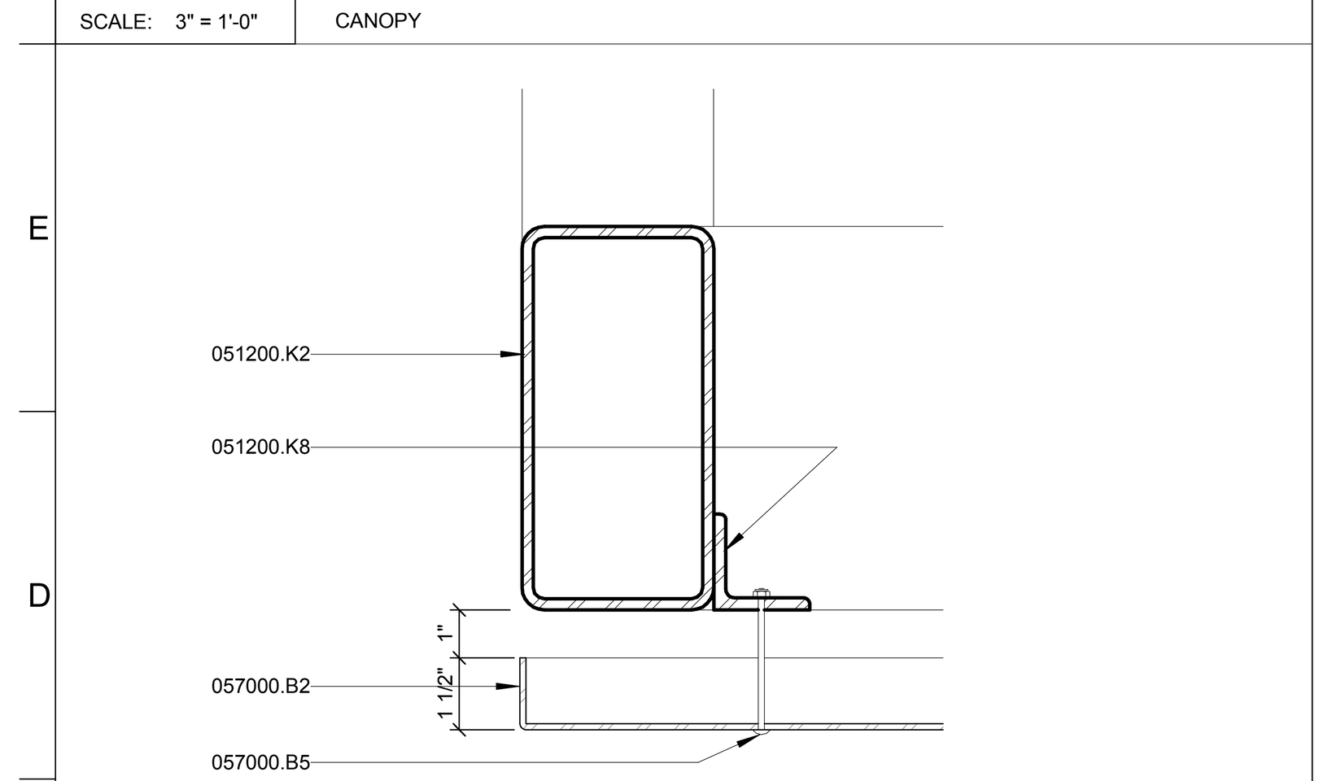
K16 SUNSHADE - WEST VIEW
SCALE: NO SCALE OTHER SIDES SIMILIAR



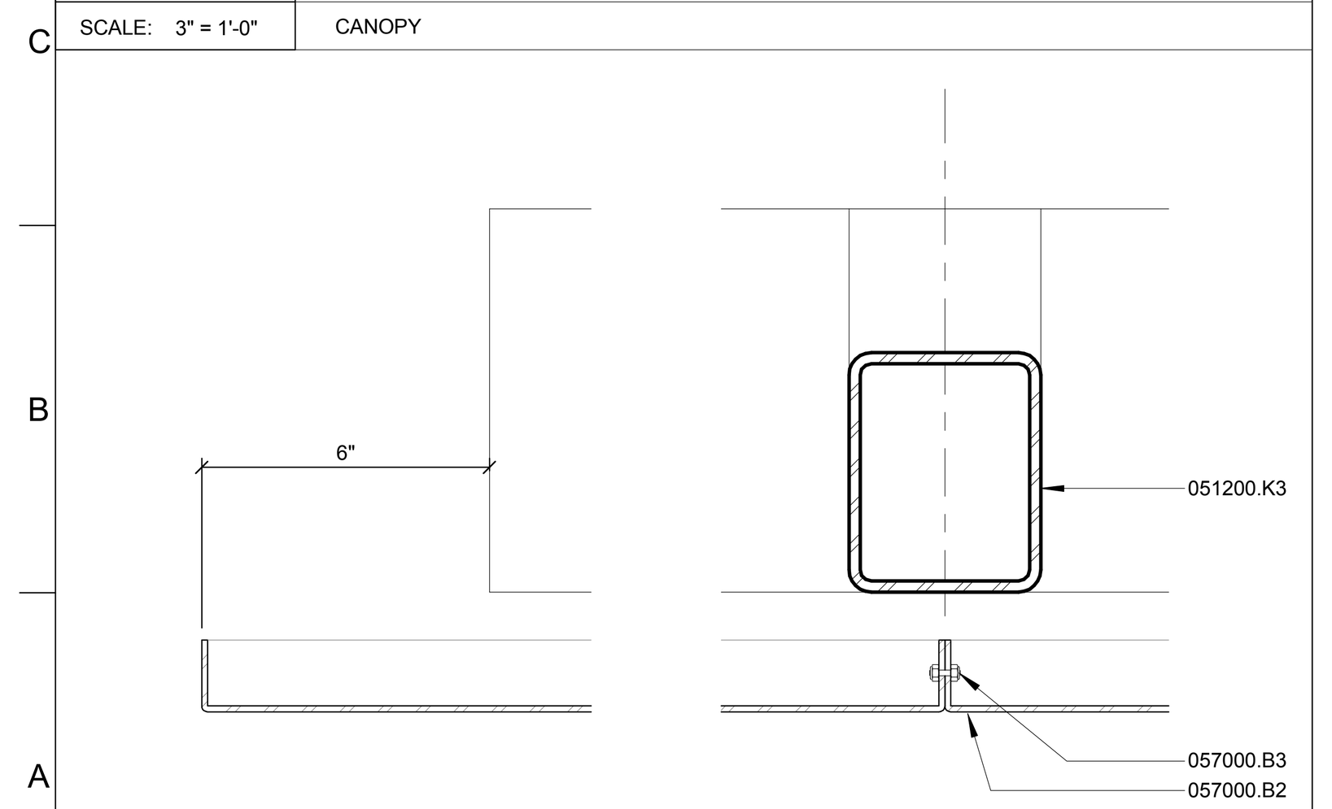
H1 SECTION DETAIL
SCALE: 3" = 1'-0" CANOPY



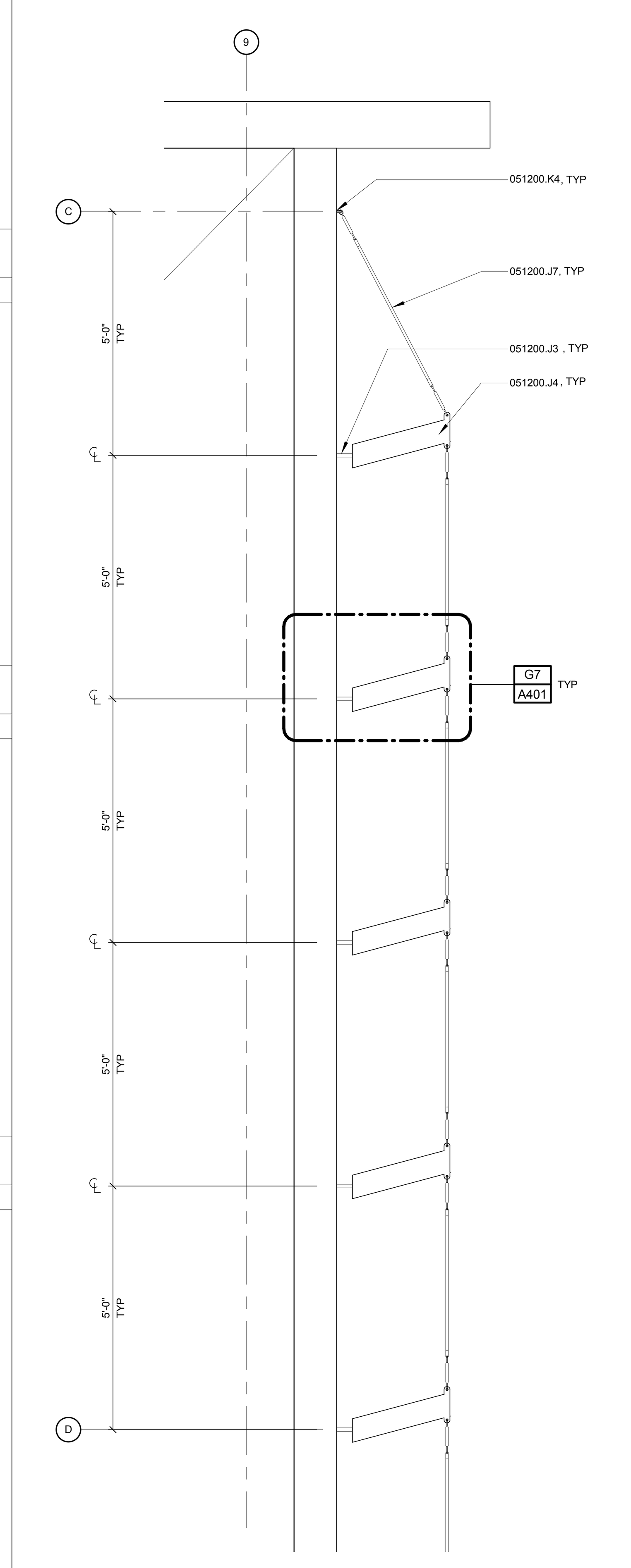
F1 SECTION DETAIL
SCALE: 3" = 1'-0" CANOPY



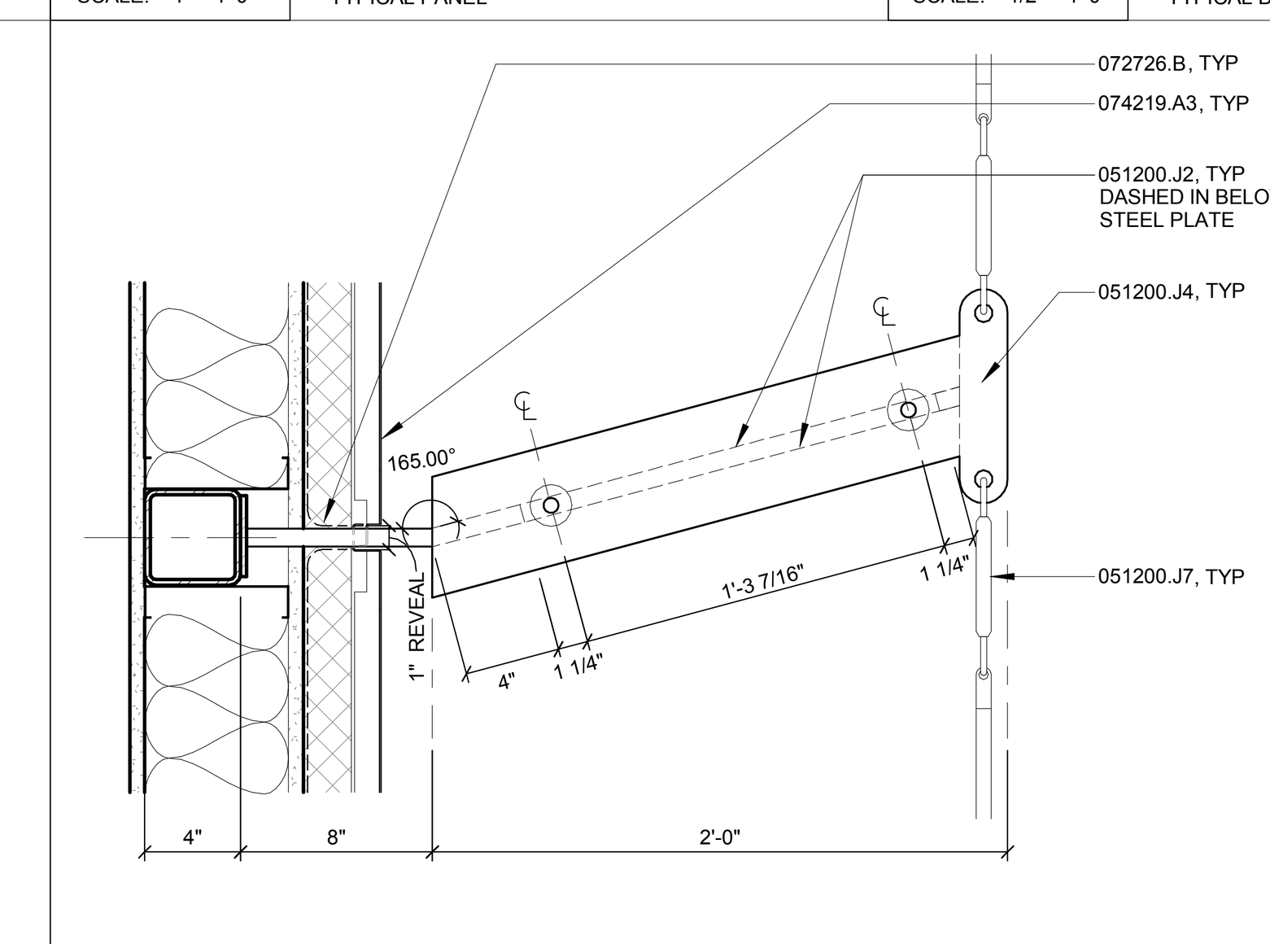
C1 SECTION DTL
SCALE: 3" = 1'-0" CANOPY



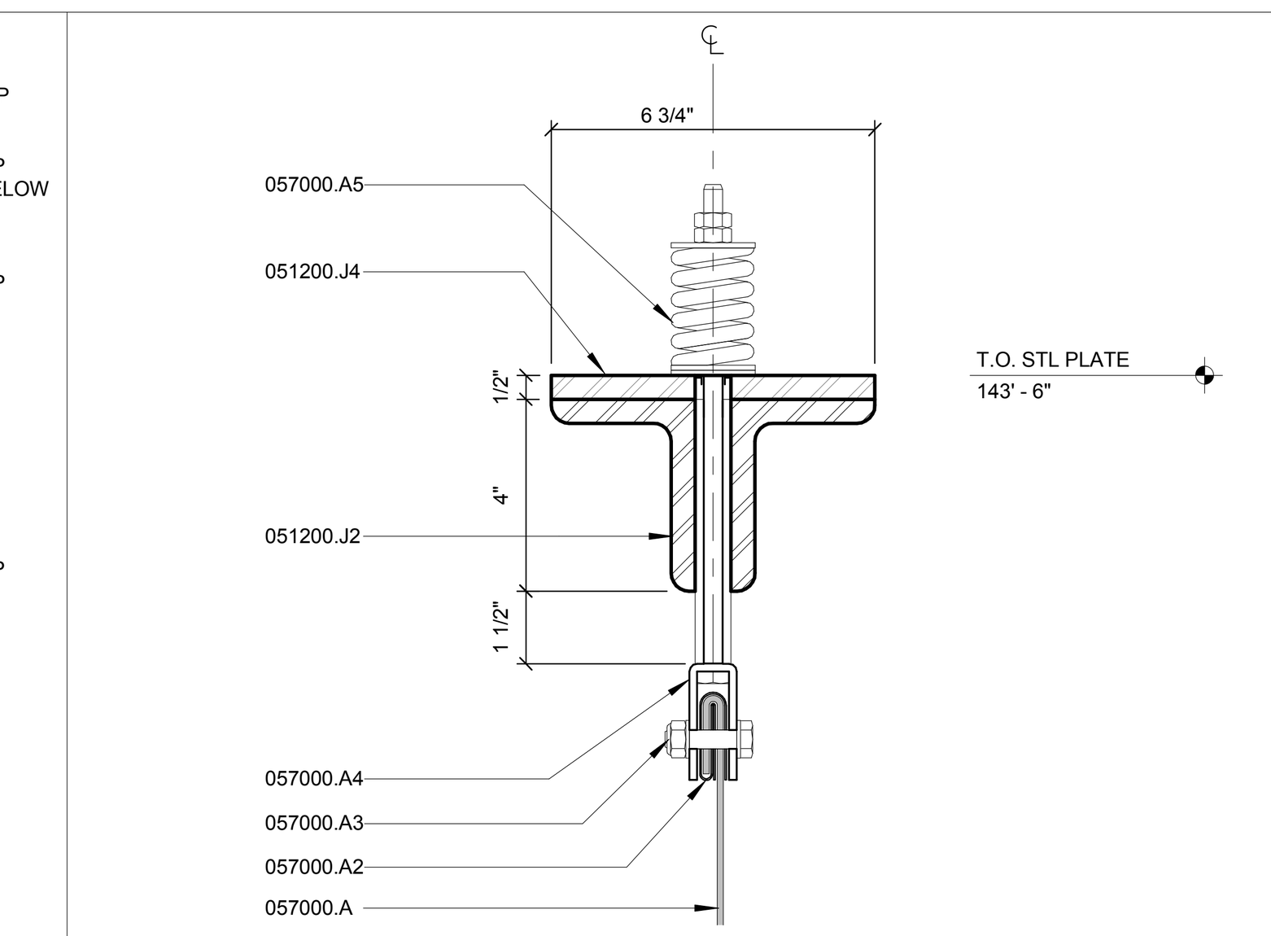
A1 SECTION DTL
SCALE: 3" = 1'-0" CANOPY



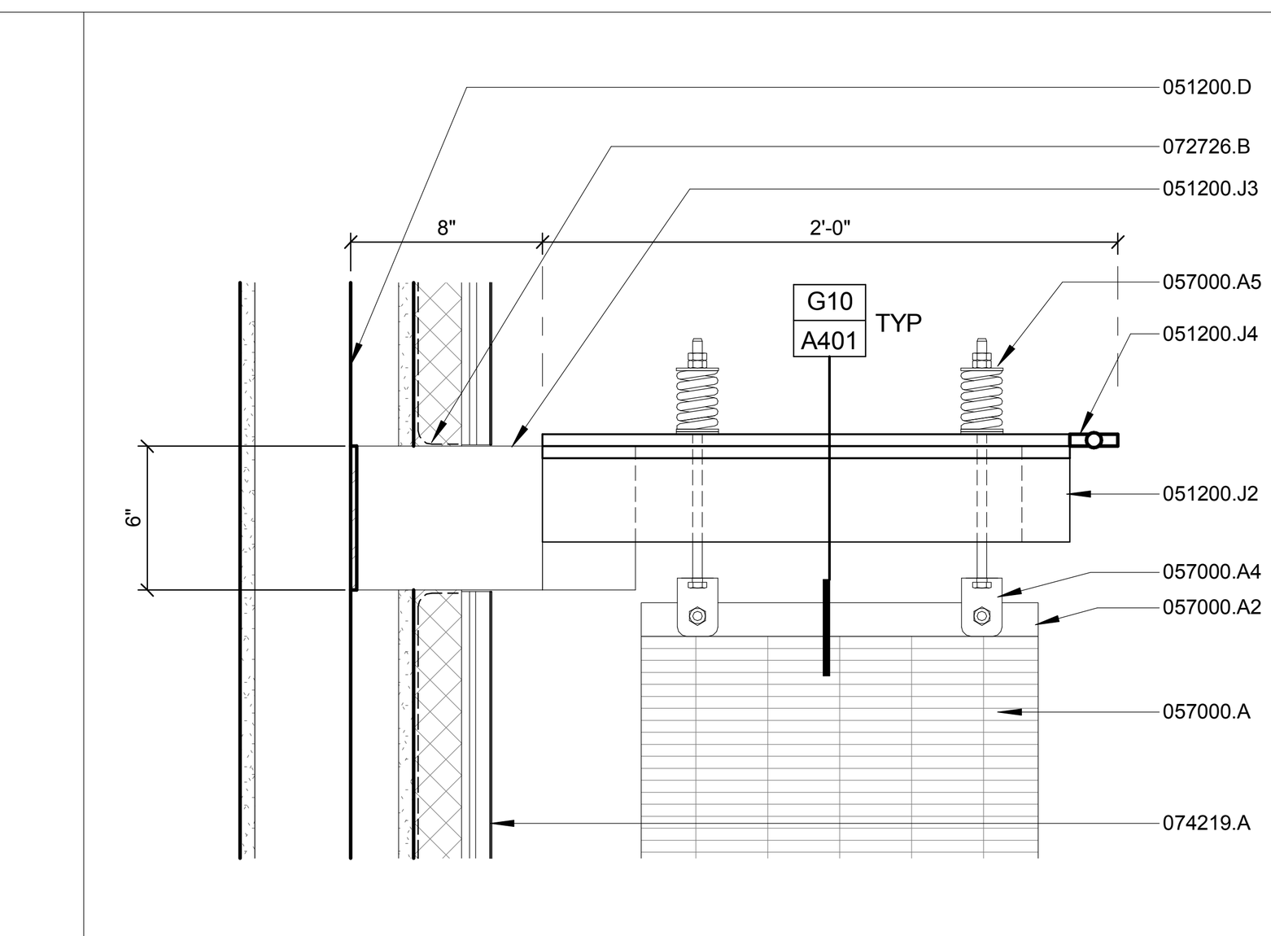
A4 ENLARGED PLAN
SCALE: 1/2" = 1'-0" TYPICAL SUNSHADE



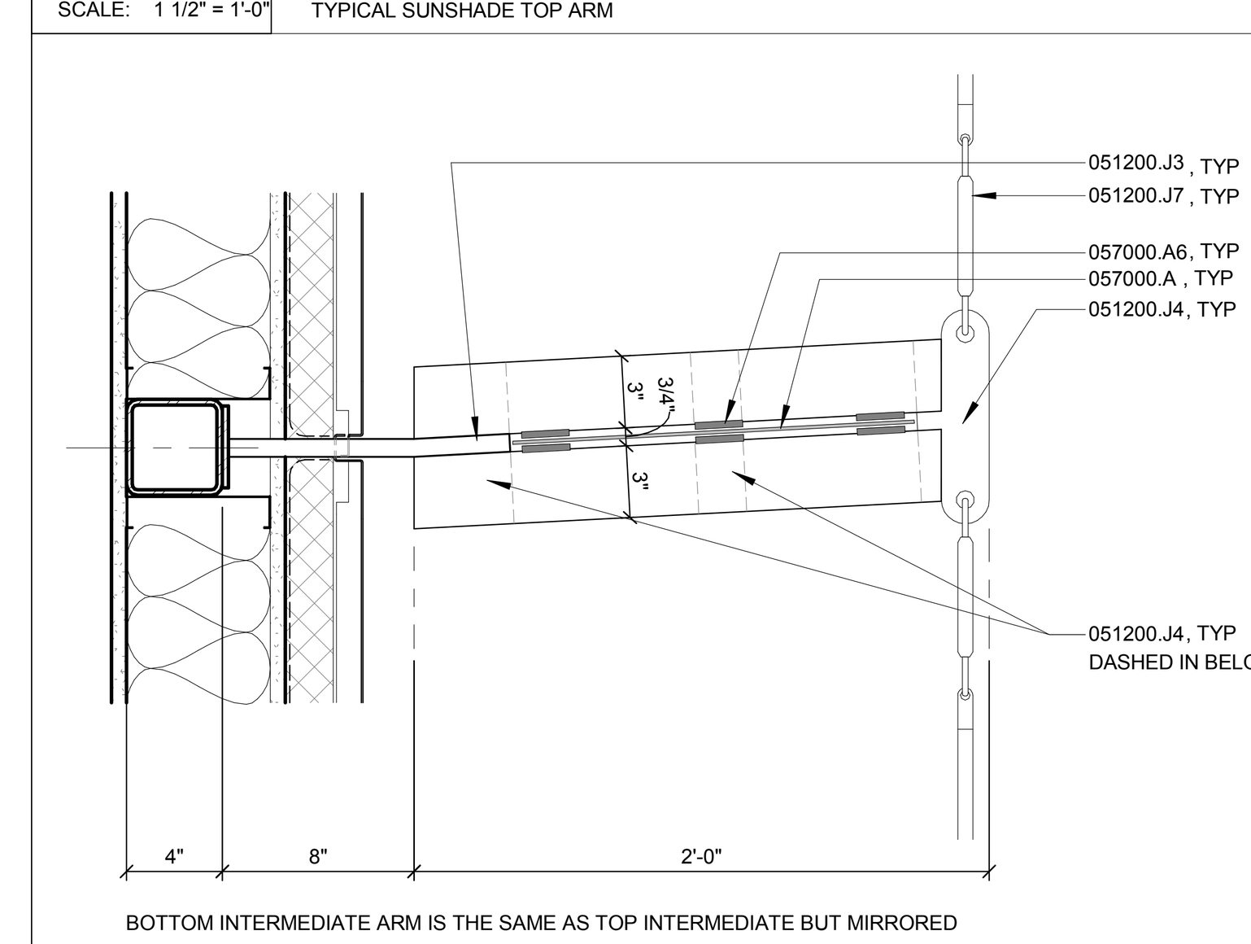
G7 PLAN DTL
SCALE: 1 1/2" = 1'-0" TYPICAL SUNSHADE TOP ARM



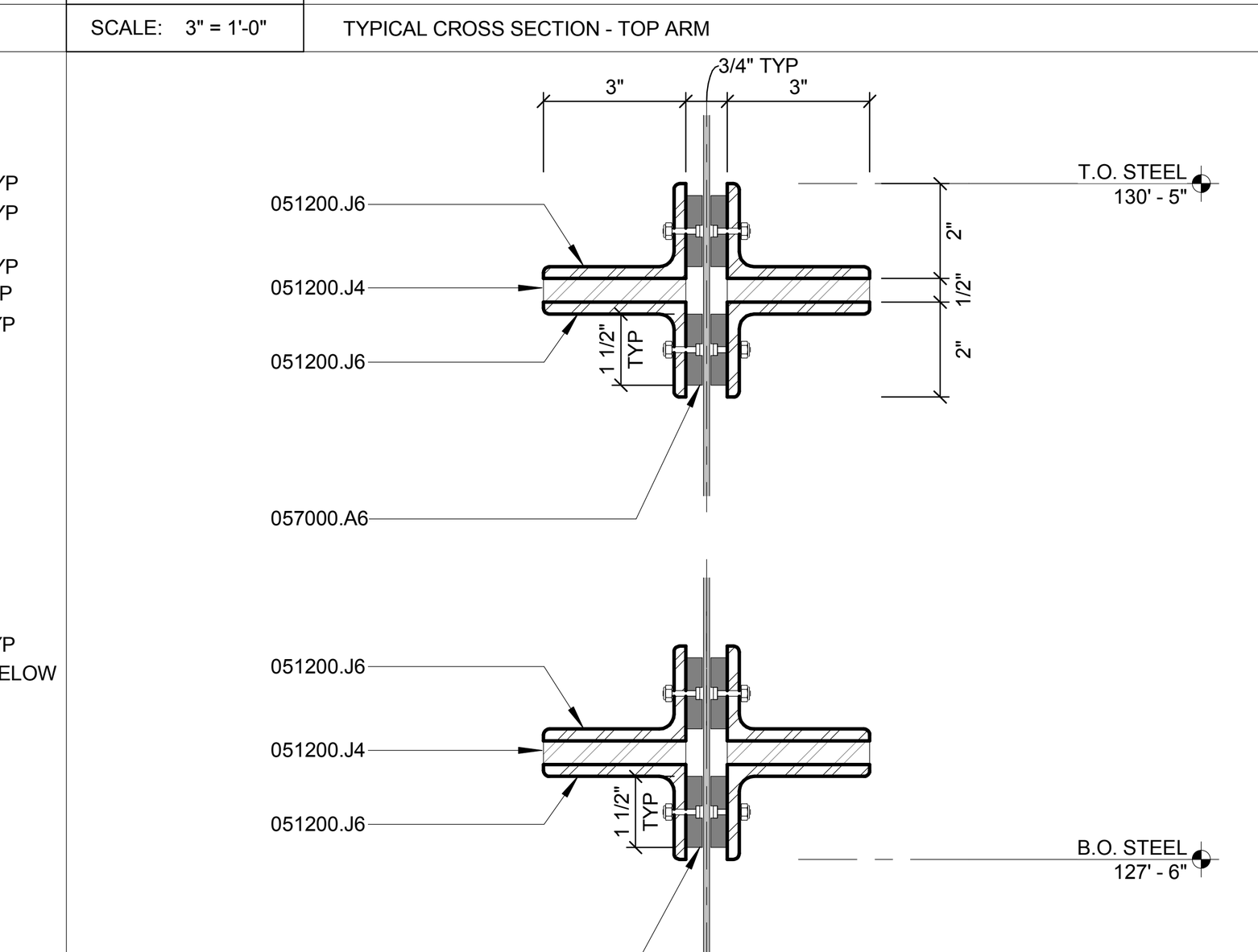
G10 SECTION DTL
SCALE: 3" = 1'-0" TYPICAL CROSS SECTION - TOP ARM



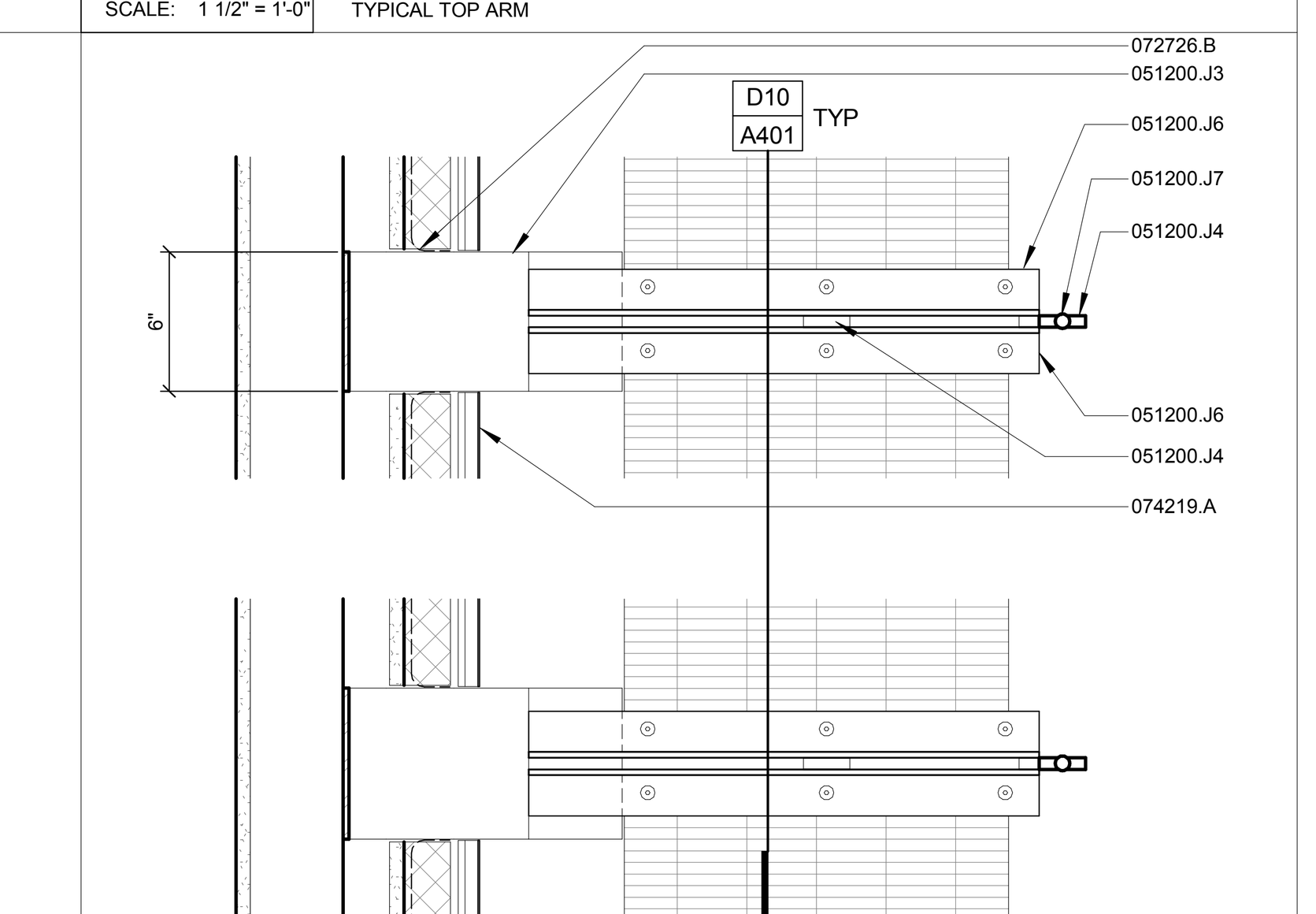
G13 SECTION DTL
SCALE: 1 1/2" = 1'-0" TYPICAL TOP ARM



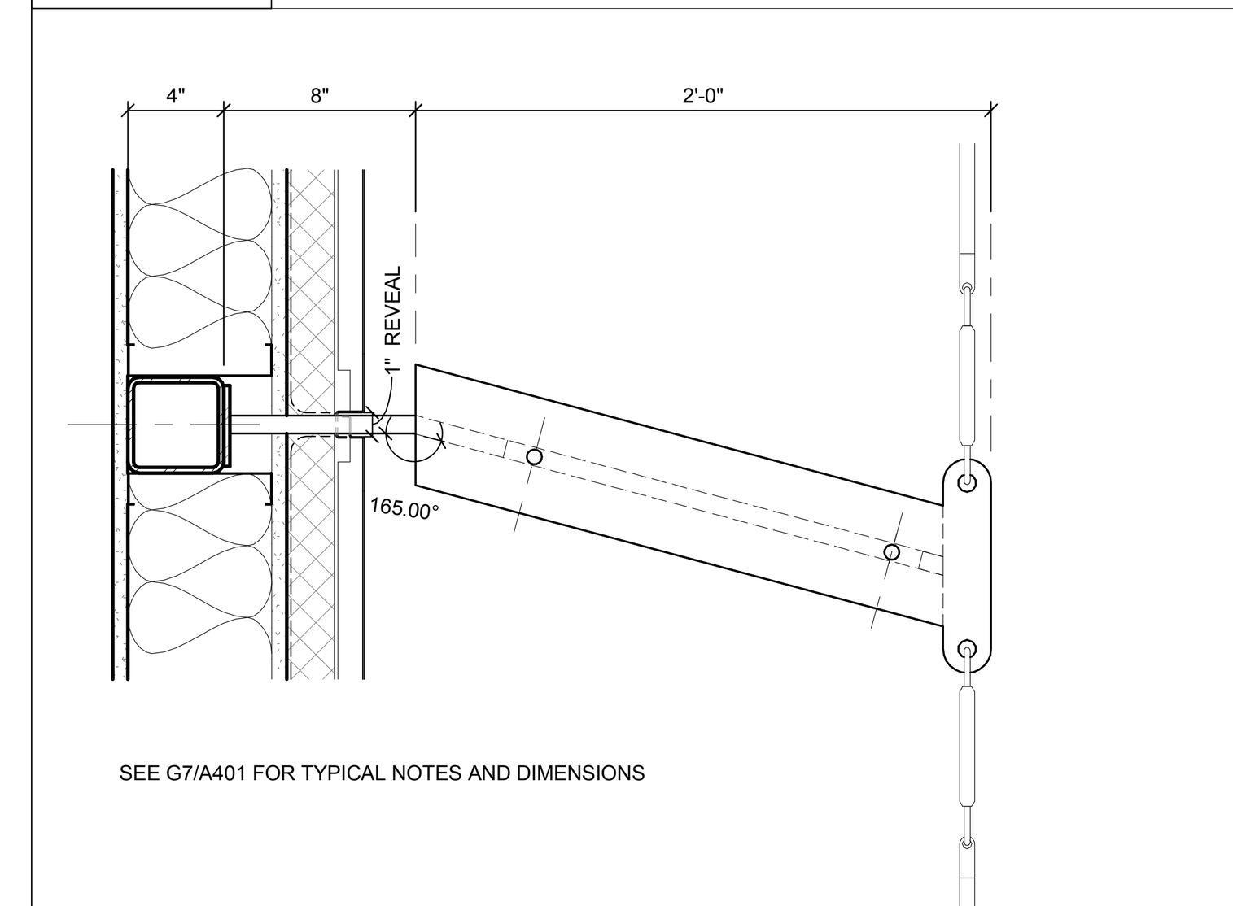
D7 PLAN DTL
SCALE: 1 1/2" = 1'-0" TYPICAL SUNSHADE TOP INTERMEDIATE ARM



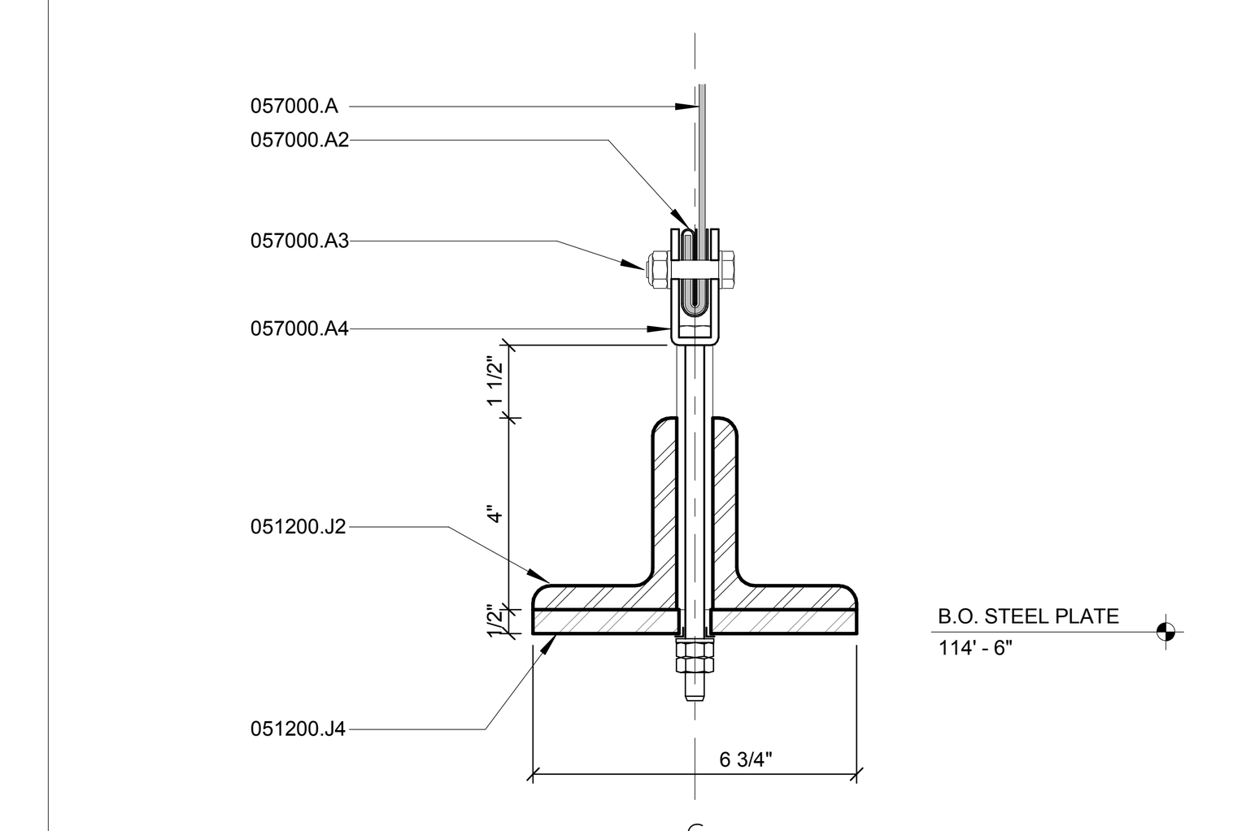
D10 SECTION DTL
SCALE: 3" = 1'-0" TYPICAL CROSS SECTION - INTERMEDIATE ARMS



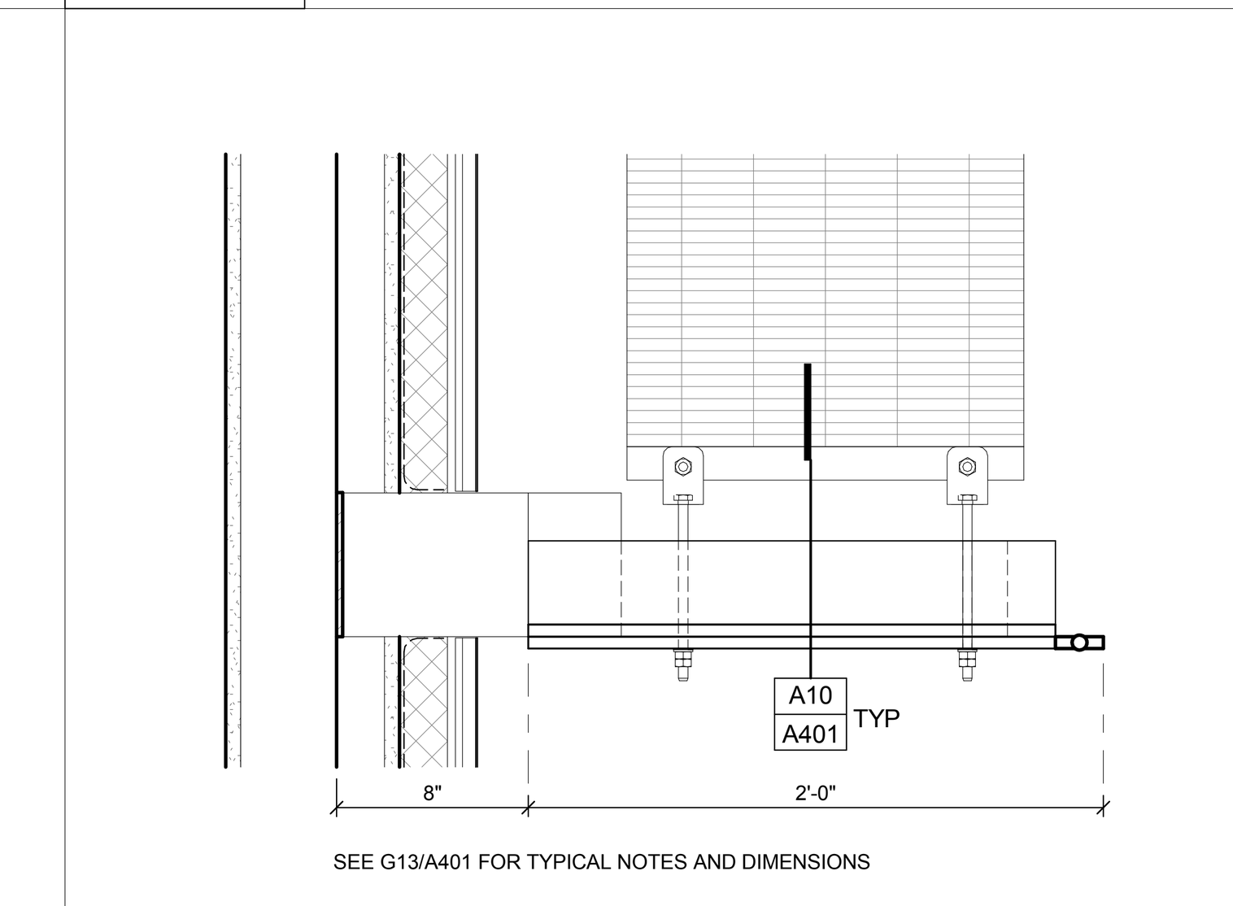
D13 SECTION DTL
SCALE: 1 1/2" = 1'-0" TYPICAL INTERMEDIATE ARMS



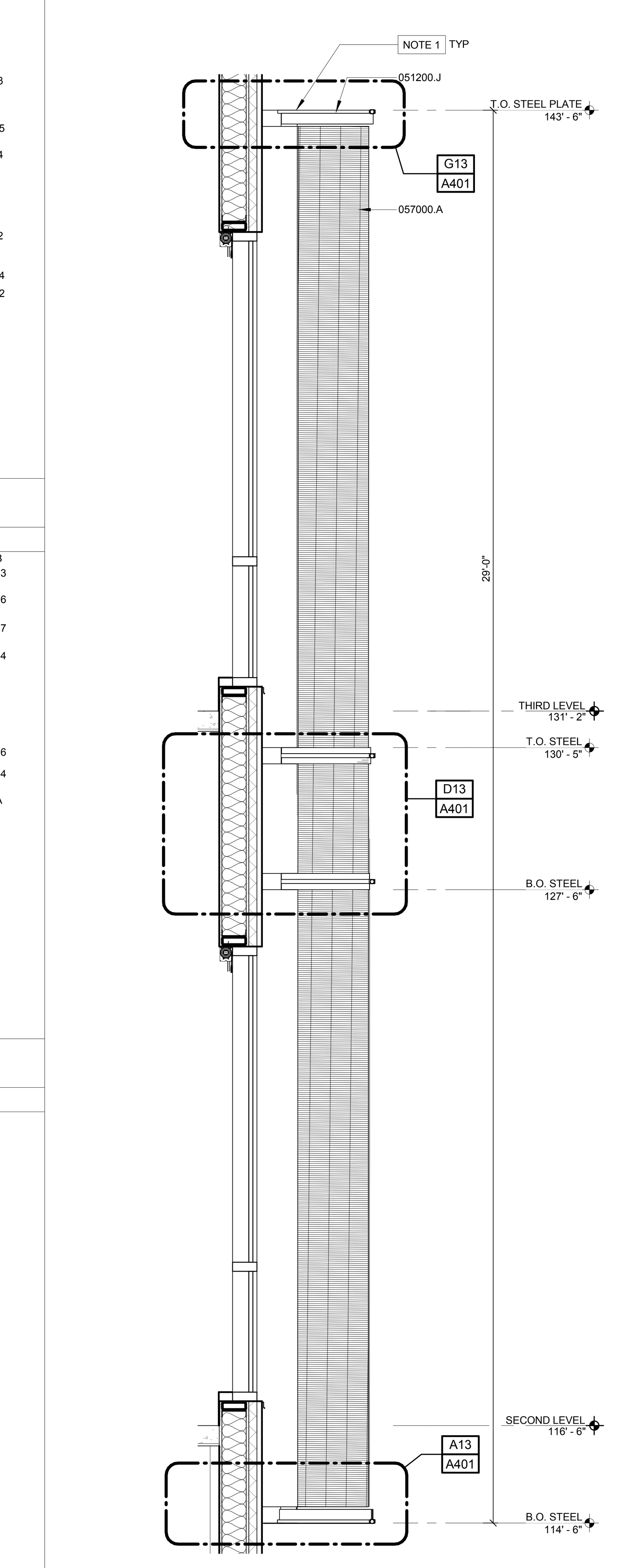
A7 PLAN DTL
SCALE: 1 1/2" = 1'-0" TYPICAL SUNSHADE BOTTOM ARM



A10 SECTION DTL
SCALE: 3" = 1'-0" TYPICAL CROSS SECTION - BOTTOM ARM



A13 SECTION DTL
SCALE: 1 1/2" = 1'-0" TYPICAL BOTTOM ARM



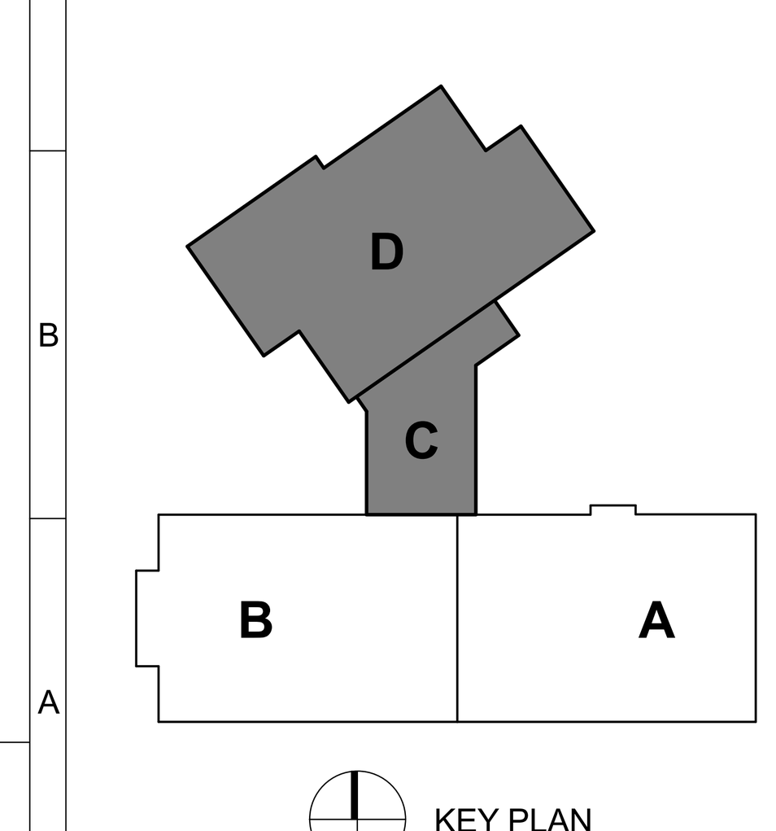
A16 SECTION
SCALE: 1/2" = 1'-0" TYPICAL VERTICAL SUNSHADE

SHEET A401SHEET SPECIFIC NOTES

NOTE 1 ALL GALVANIZED STRUCTURE TO BE PAINTED, COLOR TO BE SELECTED BY ARCHITECT

KEYNOTE LEGEND

051200.D	STEEL TUBE – REFER TO STRUCTURAL
051200.J	GALVANIZED STEEL SUPPORT STRUCTURE FOR VERTICAL SUNSHADE – SEE STRUCTURAL
051200.J2	GALVANIZED STEEL ANGLE - L4 X 3 X 1/2" – REFER TO STRUCTURAL
051200.J3	GALVANIZED STEEL CONNECTION PLATE – 3/4" X 6" – REFER TO STRUCTURAL
051200.J4	GALVANIZED PLATE – 1/2" – REFER TO STRUCTURAL
051200.J6	GALVANIZED STEEL ANGLE – L3 X 2 X 1/4" – REFER TO STRUCTURAL
051200.J7	5/8" STEEL ROD & TURNBUCKLES – GALVANIZED – SEE STRUCTURAL
051200.K2	8" X 4" X 1/4" GALVANIZED STEEL TUBE – SEE STRUCTURAL
051200.K3	TAPERED 8" X 4" X 1/4" GALVANIZED STEEL TUBE – SEE STRUCTURAL
051200.K4	GALVANIZED CLEVIS – SEE STRUCTURAL
051200.K5	3/4" STEEL ROD & TURNBUCKLE – SEE STRUCTURAL
051200.K6	4" X 4" X 1/2" GALVANIZED STEEL TUBE – SEE STRUCTURAL
051200.K7	1/4" GALVANIZED CAP PLATE – SEE STRUCTURAL
051200.K8	1 1/2" X 1 1/2" X 1/4" GALVANIZED STEEL ANGLE – SEE STRUCTURAL
051200.P	METAL TIE ROD – SEE STRUCTURAL
057000.A	DECORATIVE STAINLESS STEEL WOVEN FABRIC
057000.A2	MESH EDGE FITTED WITH A FLAT STAINLESS STEEL TENSION PROFILE
057000.A3	HOLES PUNCHED ON 16" O.C.
057000.A4	STAINLESS STEEL CLEVIS SCREW CONNECTION TO SUBSTRUCTURE
057000.A5	SPRING CONNECTION TO APPLY TENSION
057000.A6	RUBBER GASKET – RECESSED STAINLESS BOLT AND NUT
057000.B	ALUMINUM CANOPY PANELS – CUSTOM PUNCH PATTERN, POWDER COATED FINISH
057000.B2	1/8" THK ALUMINUM PANEL WITH BENT EDGES ON ALL SIDES, OUTSIDE RADIUS .12", TYPICAL
057000.B3	ZINC PLATED HARDWARE
057000.B4	FIVE DIFFERENT PUNCH SIZES RANGING FROM 1/16" DIAMETER UP TO 1" DIAMETER, FINAL PATTERN TO BE DETERMINED BY ARCHITECT
057000.B5	FINISH BOLT, ELONGATED ROUND HEAD POWDER COATED TO MATCH CANOPY COLOR
072726.B	AIR BARRIER FLASHING
074219.A	PRE-FINISHED ALUMINUM, METAL PLATE WALL PANELS – REFER TO BUILDING ELEVATIONS FOR VERTICAL JOINT DIMENSIONS
074219.A3	PRE-FINISHED ALUMINUM, METAL PLATE WALL PANELS – 2'-6" WIDE PANELS O.C., HEIGHT VARIES, REFER TO WALL SECTIONS & DETAILS - 1" VERTICAL JOINTS, ALIGN WITH GLAZING MULLIONS, REFER TO ELEVATIONS
099113.B	PAINT FINISH



KEY PLAN

REVISIONS: ADDENDUM #1 - 11/09/12

DESIGN ARCHITECT:
PROJECT ARCHITECT:
DRAWN BY: JAR
ISSUED: 10/29/12

This document originally issued and sealed by:
Christopher M. Beardslee
Registered Architect
A-2712
On: **November 09, 2012**
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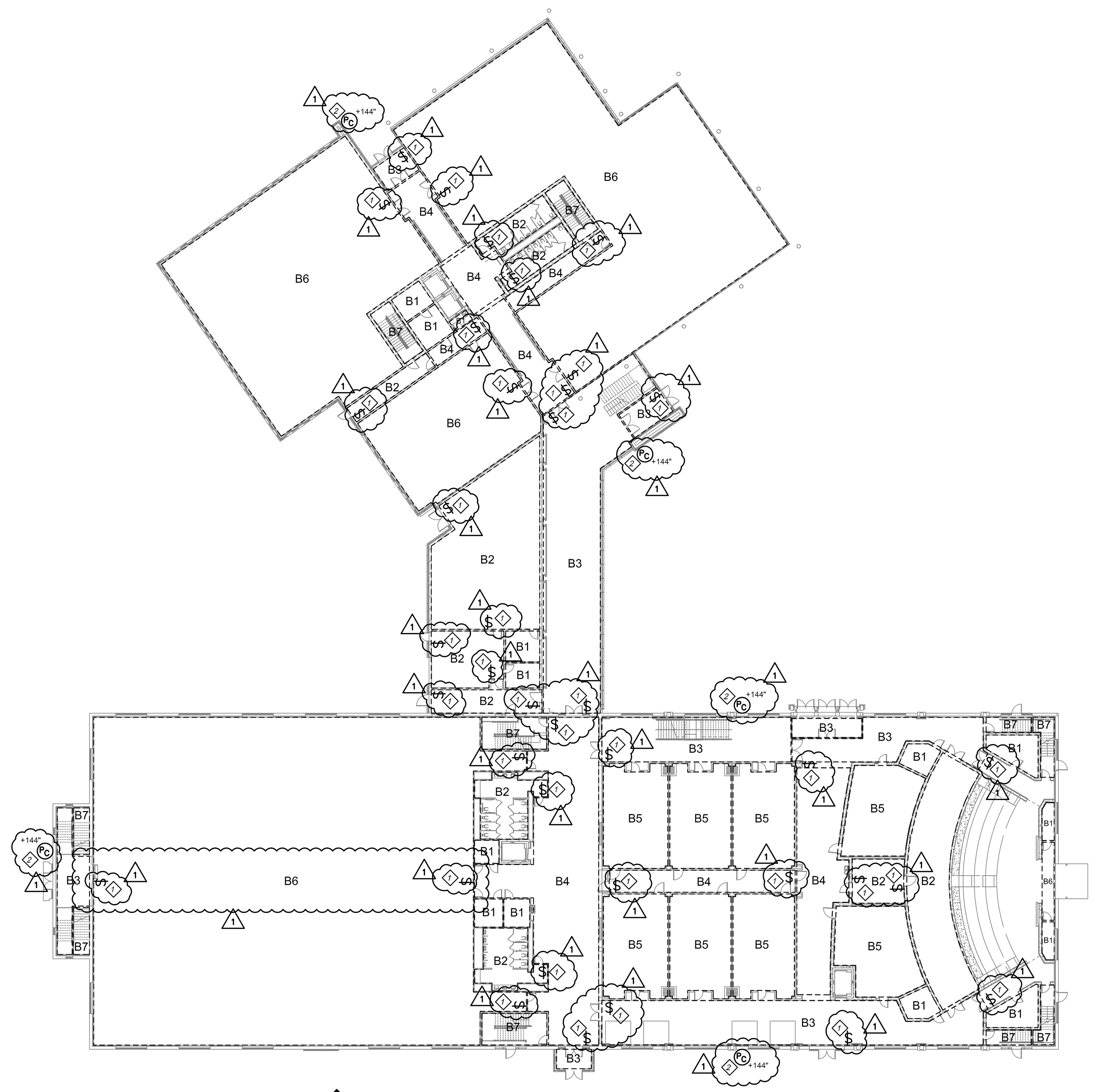
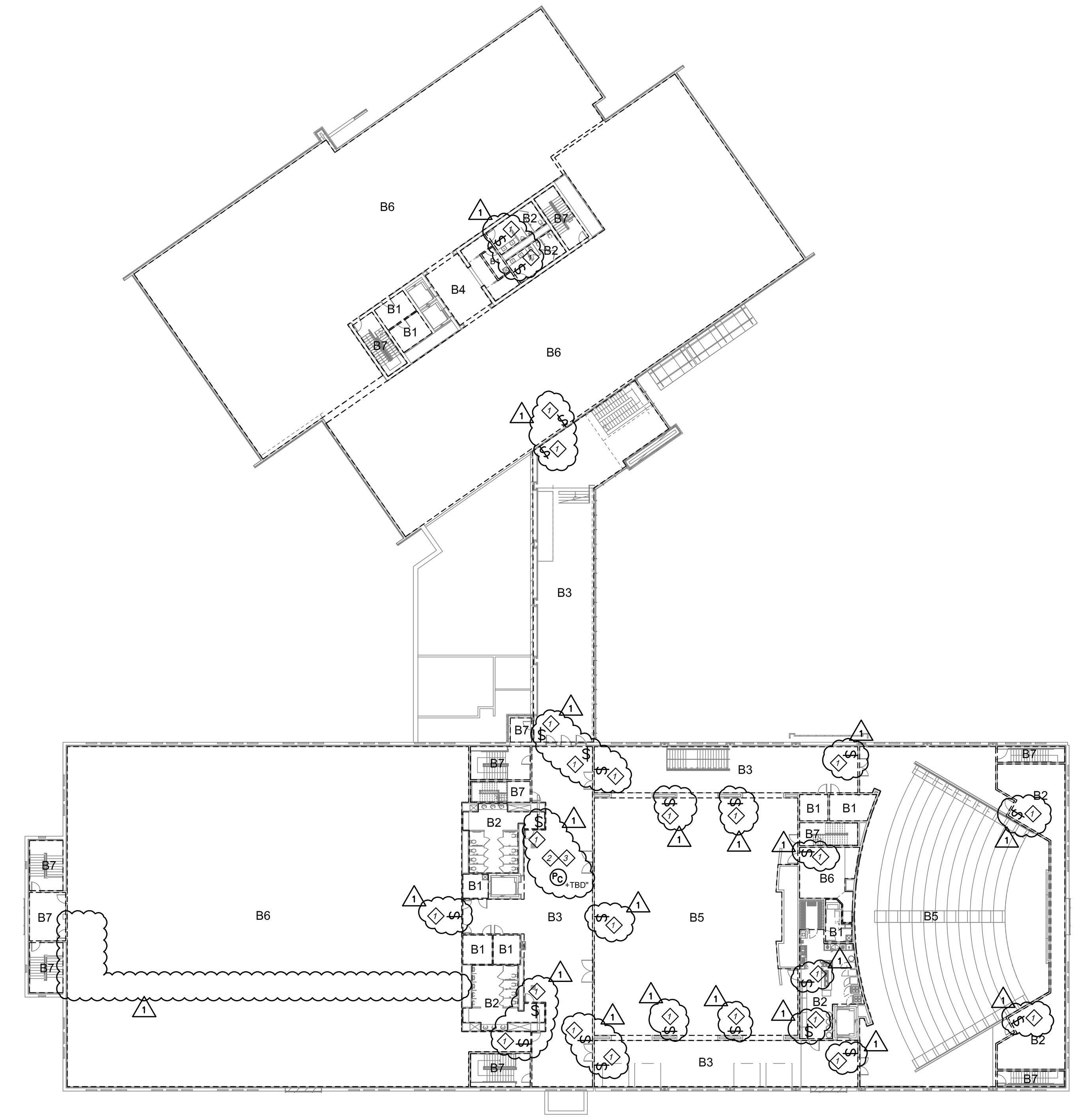
Enlarged Details - Area C & D

SHA PROJECT NO. 11053

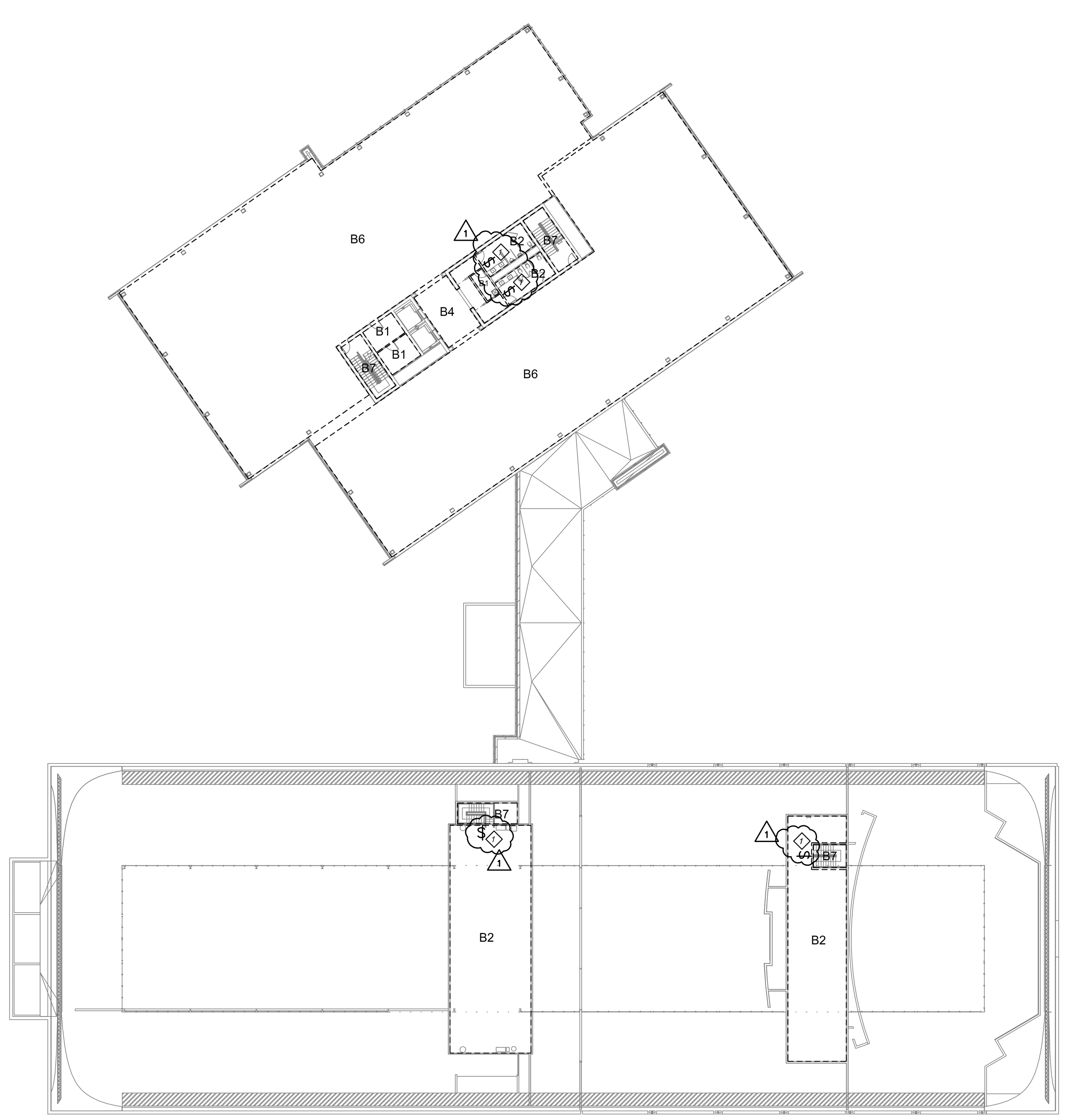
A401



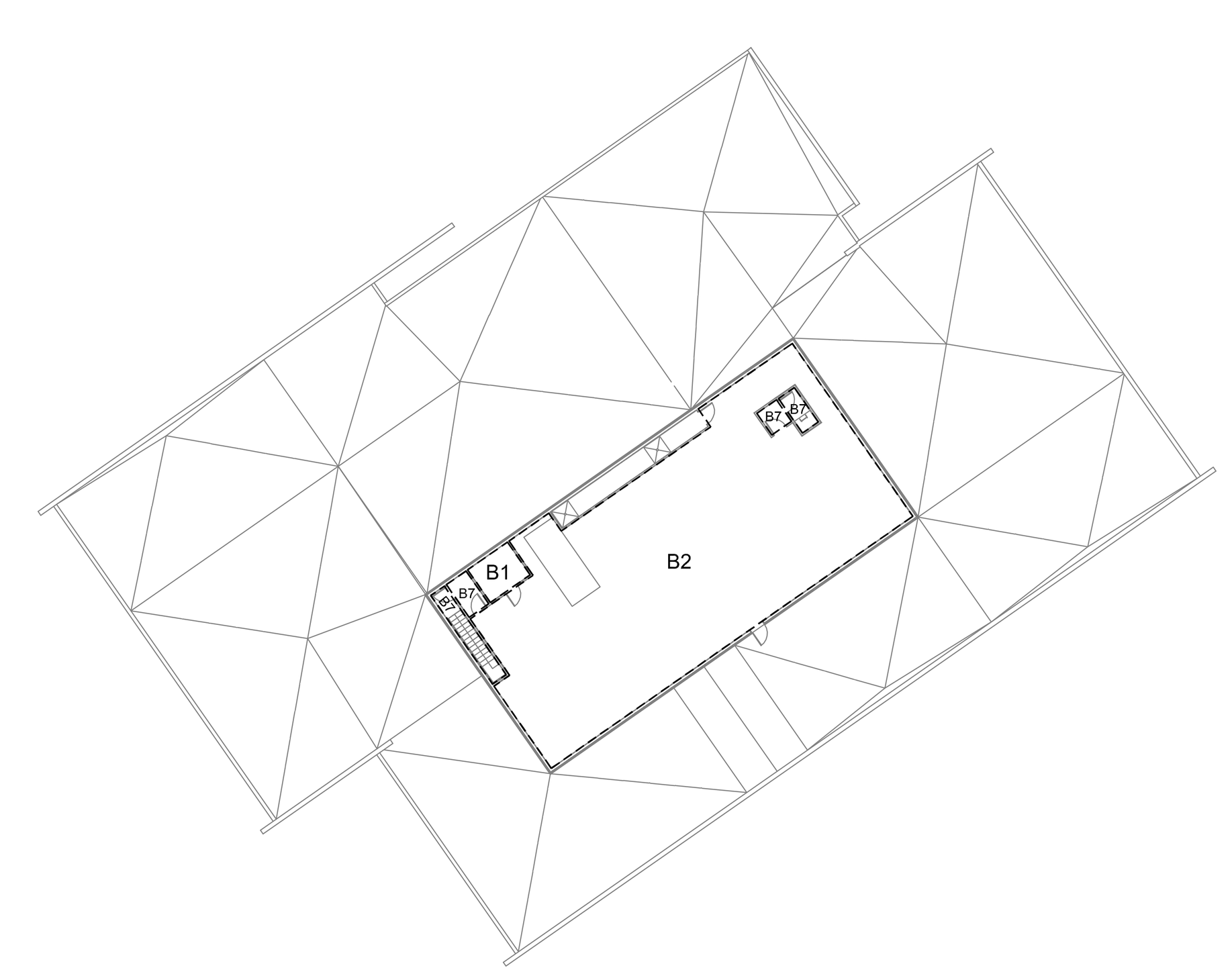
1 First Floor Lighting Control Plan
Scale: 1/32" = 1'-0"



2 Second Floor Lighting Control Plan
Scale: 1/32" = 1'-0"



3 Third Floor Lighting Control Plan
Scale: 1/32" = 1'-0"



4 Fourth Floor Lighting Control Plan
Scale: 1/32" = 1'-0"

LIGHTING CONTROL SCHEDULE

Behaviors		Lighting Controls				Remarks	
NO.	DESCRIPTION	Occupancy Sensor	Photocell	Manual Switch	Time Control	Typical Application	Notes
B1	Wall occupancy sensor acts as manual ON wall switch Wall occupancy sensor turns lights OFF upon vacancy Wall occupancy sensor also functions as a manual switch	OFF	-	ON	-	Elec/Mech Rooms, Active Storage	B,D
B2	Ceiling occupancy sensor(s) turns lights ON with occupancy Ceiling occupancy sensor(s) turns lights OFF upon vacancy Manual, low voltage wall switch(es) also functions as manual switch	ON/OFF	-	ON/OFF	-	Active Storage, Large Restrooms, Food Preparation	B,D
B3	Turn ON lights at specific time Turn OFF lights at specific time Light levels above Photocell trigger point turns OFF Light levels below Photocell trigger point turns ON at level required to maintain Photocell trigger level Time triggers Blink Warn Sequence Manual, low voltage switch(es) interrupts sequence and starts interval ti Lights automatically turn OFF if interval timer reaches zero	-	ON/OFF	ON/OFF	BLINK/OFF	Daylit Main Corridors	A,C,D
B4	Turn ON lights at specific time Turn OFF lights at specific time Time triggers Blink Warn sequence Manual, low voltage switch(s) interrupts sequence and starts interval tim Lights automatically turn OFF if interval timers reaches zero	-	-	ON/OFF	BLINK/OFF	Non-Daylit Main Corridors	C,D
B5	Occupancy sensor turns lights ON with occupancy Occupancy sensor turns lights OFF upon vacancy Manual & automatic settings adjustments via light scene controller	ON/OFF	-	Manual Scene Control	-	Audience Area, Conference Rms.	B
B6	Manual, low voltage switch(es) ON/OFF	-	-	ON/OFF	-	Elec/Mech Rooms, Active Storage	D
B7	Ceiling occupancy sensor(s) turns lights ON with occupancy Ceiling occupancy sensor(s) turns lights OFF with vacancy	ON/OFF	-	-	-	Stairwells	B,D

NOTES:

A AMBIENT LIGHT THRESHOLD REQUIRED FOR STATE CHANGE SHALL BE ADJUSTABLE VIA PROGRAMMING THROUGH THE NETWORK. COORDINATE FINAL LIGHT OUTPUT LEVEL SETTINGS WITH OWNER.

B SET INITIAL OCCUPANT SENSOR TIME DELAY TO FIVE MINUTES, COORDINATE FINAL TIME DELAY SETTINGS WITH OWNER

C SET INITIAL TIME CLOCK SETTINGS FOR ON AT 6AM OFF AT 6PM, COORDINATE FINAL TIME CLOCK SETTINGS WITH OWNER

D ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT AND JUNCTION BOXES REQUIRED FOR LIGTHING CONTROL SYSTEM. THIS INCLUDES CONDUITS AND J-HOOKS TO MANUAL LOW VOLTAGE SWITCHES, OCCUPANT SENSORS (CEILING AND WALL MOUNTED), PHOTOCELLS, ETC. ALL LIGHTING CONTROL CABLES TO BE FURNISHED BY THE CONTROLS CONTRACTOR, INSTALLED BY THE ELECTRICAL CONTRACTOR. PROGRAMMING OF THE LIGHTING CONTROL SYSTEM SHALL BE BY THE CONTROLS CONTRACTOR.

GENERAL ELECTRICAL NOTES

1. THE LIGHTING CONTROL BEHAVIOR PLANS ON THIS SHEET ARE GRAPHICAL IN NATURE AND MEANT TO PROVIDE AN OVERVIEW OF THE LIGHTING CONTROL SCHEME FOR EACH ROOM IN THE BUILDING. THE LIGHTING CONTROL SYSTEM IS TO BE FURNISHED, INSTALLED AND PROGRAMMED BY THE CONTROLS CONTRACTOR. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL LIGHT FIXTURES AND FOR THE NECESSARY ROUGH IN FOR ALL LIGHTING CONTROLS FOR A FULLY FUNCTIONAL VIDEO SECURITY SYSTEM.
2. SEE SHEET ES101 AND THE LIGHTING PLAN SHEETS FOR LOCATIONS OF ALL LIGHT FIXTURES THROUGHOUT THE PROJECT.
3. COORDINATE THE INSTALLATION OF ALL LIGHTING CONTROL DEVICES WITH OTHER TRADES AS REQUIRED. LIGHTING CONTROL LOCATIONS SHALL BE ADJUSTED AS REQUIRED TO AVOID ALL OBSTACLES.
4. SEE DETAIL 1 ON SHEET E503 FOR ALL WORK IN THE ELEVATOR SHAFT AND ELEVATOR MACHINE ROOM.
5. SEE DETAIL 8 ON SHEET E502 FOR LIGHTING CONTROL SCHEMATIC DIAGRAM.
6. AS DENOTED BY KEYED NOTES ON THIS SHEET, WALL MOUNTED LIGHT SWITCHES AND PHOTOCELL CONTROLS WILL BE PROVIDED. WALL AND CEILING OCCUPANT SENSORS ARE NOT SHOWN BUT WILL BE FURNISHED BY THE CONTROLS CONTRACTOR, INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH CONTROLS CONTRACTOR TO DETERMINE NUMBER OF OCCUPANT SENSORS TO BE PROVIDED.
7. WHERE ACCESSIBLE YET CONCEALED AFTER COMPLETION OF CONSTRUCTION, LIGHTING CONTROL WIRING MAY BE RAN 'LOOSE' ABOVE SUSPENDED CEILINGS ALONG SIDE OTHER COMMUNICATIONS WIRING IN CABLE TRAYS AND J-HOOK SYSTEMS. PROVIDE ADDITIONAL J-HOOKS AS REQUIRED TO SUPPORT LIGHTING CONTROLS WIRING OFF OF SUSPENDED CEILINGS.

KEYED ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT AND BACKBOX FOR LIGHT SWITCHES AT LOCATIONS SHOWN. FINAL LOCATIONS AND QUANTITIES OF LIGHT SWITCHES TO BE COORDINATED WITH THE CONTROLS CONTRACTOR PRIOR TO ROUGH-IN WORK. LIGHT SWITCHES TO BE FURNISHED BY CONTROLS CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
2. PROVIDE PHOTOCELL CONTROL AT APPROXIMATELY THE HEIGHT INDICATED WHERE SHOWN. FEED WITH MINIMUM 3/4" CONCEALED CONDUIT.
3. PHOTOCELL TO BE LOCATED ON WALL OF SECOND FLOOR CLERESTORY AREA OF THE 4H CORRIDOR. COORDINATE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.

REVISIONS:
1 ADDENDUM 1 11-09-2012

DESIGN ENGINEER: JPD
PROJECT ENGINEER: BJM
DRAWN BY: JDW
ISSUED: 10/29/2012

This document was originally issued and sealed by:

Brian J. Meyers
Registered Professional
Engineer E13125

On: October 29, 2012

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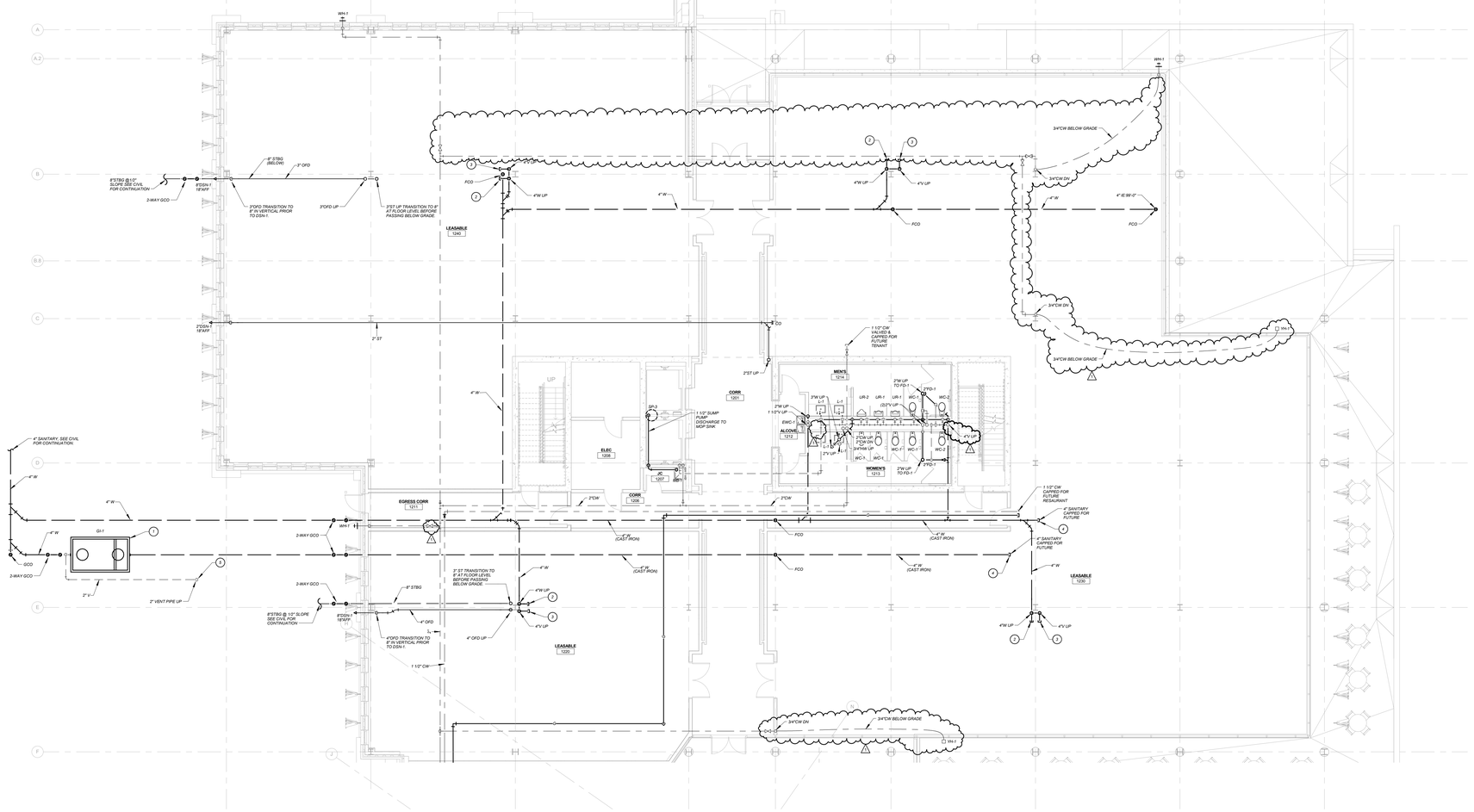
Lighting Control Plan

DAVIS DESIGN PROJECT NO. 11-0214

E402



1 Plbg - Comp. Bldg - 1 - Area D
1/8" = 1'-0"

GENERAL PLUMBING NOTES

1. ROOF DRAIN SYSTEM SERVING AREA D CONSISTING OF ROOF DRAINS RD-2 AND OD-2 IS AN ENGINEERED SIPHONIC SYSTEM DESIGNED BY J.R. SMITH. PIPE ROUTING AND SIZING INDICATED ON DRAWINGS IS BASED UPON PRELIMINARY ENGINEERING CALCULATIONS AND COORDINATION WITH STRUCTURAL TO ALLOW HORIZONTAL PIPING TO RUN LEVEL. SHOP DRAWINGS SIGNED AND SEALED BY SYSTEM DESIGNER ARE REQUIRED FOR INSTALLATION AND INSTALLATION SHALL NOT DEVIATE FROM SHOP DRAWINGS. REFERENCE SPECIFICATION SECTION 22143 FOR ADDITIONAL INFORMATION.
2. INSTALL ALL PIPING TO ALLOW FOR A FUTURE LAY IN CEILING HEIGHT OF 12'-0" ON THIS FLOOR OF AREA D.
3. PROVIDE TEMPORARY SPACERS BELOW PIPING TO RECEIVE INSULATION TO ALLOW FOR INSTALLATION OF PIPE INSULATION WITHOUT CRUSHING.
4. BELOW GRADE CW PIPING SHALL BE SOFT COPPER TUBE ASTM B88 TYPE L WITH NO JOINTS.
5. REFERENCE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATIONS OF EXTERIOR WALL HYDRANTS AND STORM DOWNSPOUT NOZZLES. COORDINATE INTERIOR PIPING WITH STRUCTURE AND WALLS TO VERTICAL WHERE POSSIBLE.

KEYED PLUMBING NOTES

1. GREASE INTERCEPTOR SHALL BE INSTALLED IN PAVEMENT WEST OF TRASH ENCLOSURE. COORDINATE WITH SITE PLAN.
2. 4" WASTE CAPPED AT 12'-6" ABOVE FINISHED FLOOR FOR FUTURE.
3. 4" VENT CAPPED AS HIGH AS POSSIBLE ABOVE FIRST FLOOR FOR FUTURE.
4. PIPING FROM RESTRAURANT AREA. TO REMAIN CAST IRON UNDER ALTERNATE NUMBER 3. PVC NOT ALLOWED FOR PIPING CARRYING KITCHEN WASTE.
5. 3" VENT, TERMINATE WITH GOOSNECK 24" ABOVE GRADE WITHIN TRASH ENCLOUSRE.

D:\Revit\11_0214_MEP_central_erik.ahlmann.rvt

REVISIONS		
	A	ADDENDUM 1 11/08/2012

DESIGN ENGINEER: BMS
PROJECT ENGINEER: BMS
DRAWN BY: MA
ISSUED: 10/29/2012

This document originally issued and sealed by:
Brandon M. Sire
Registered Professional Engineer E-11494
On: **October 29, 2012**
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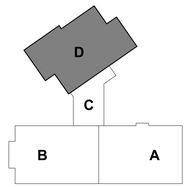
4H Renovation & NIC Building



KEY PLAN

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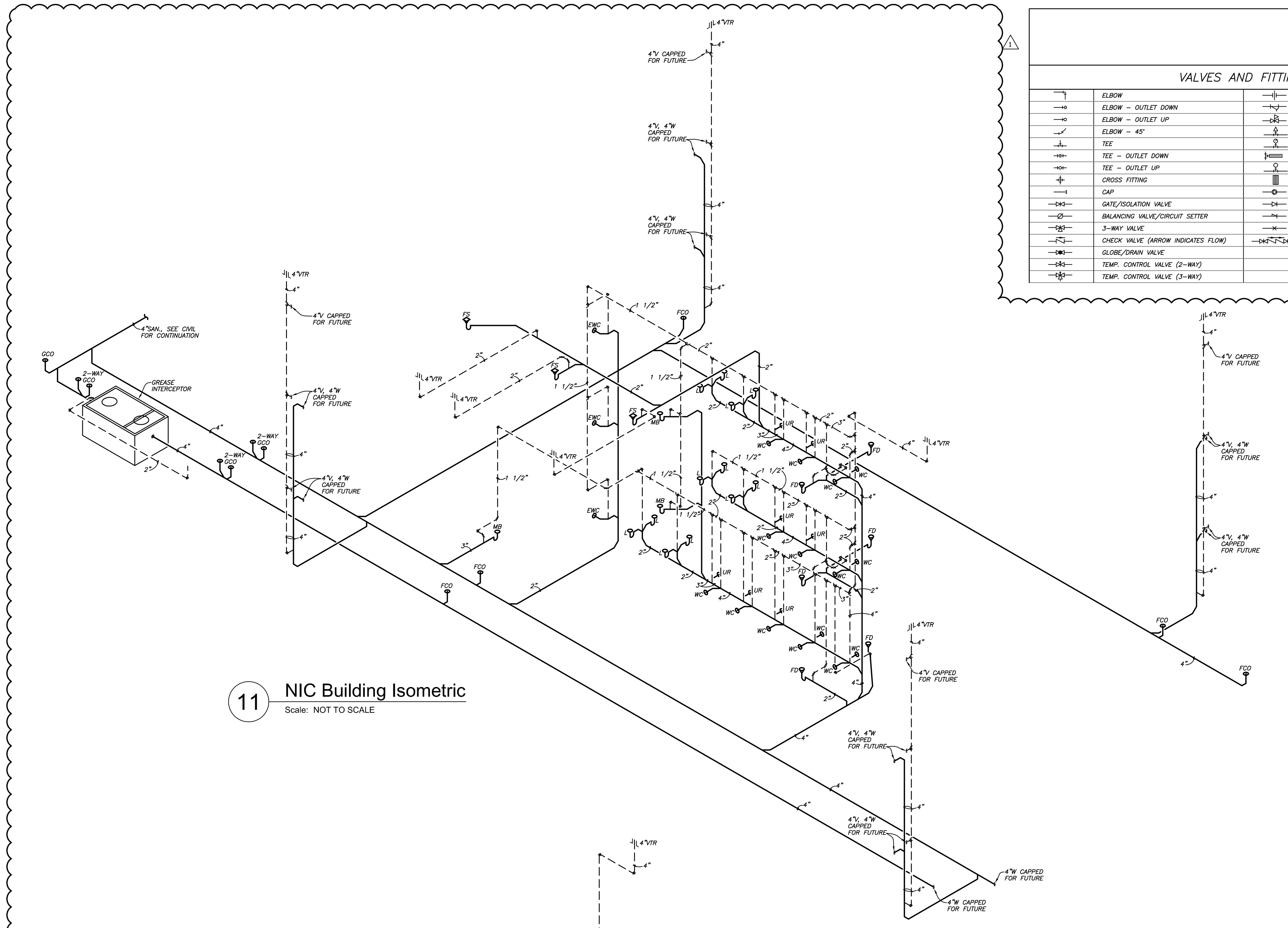
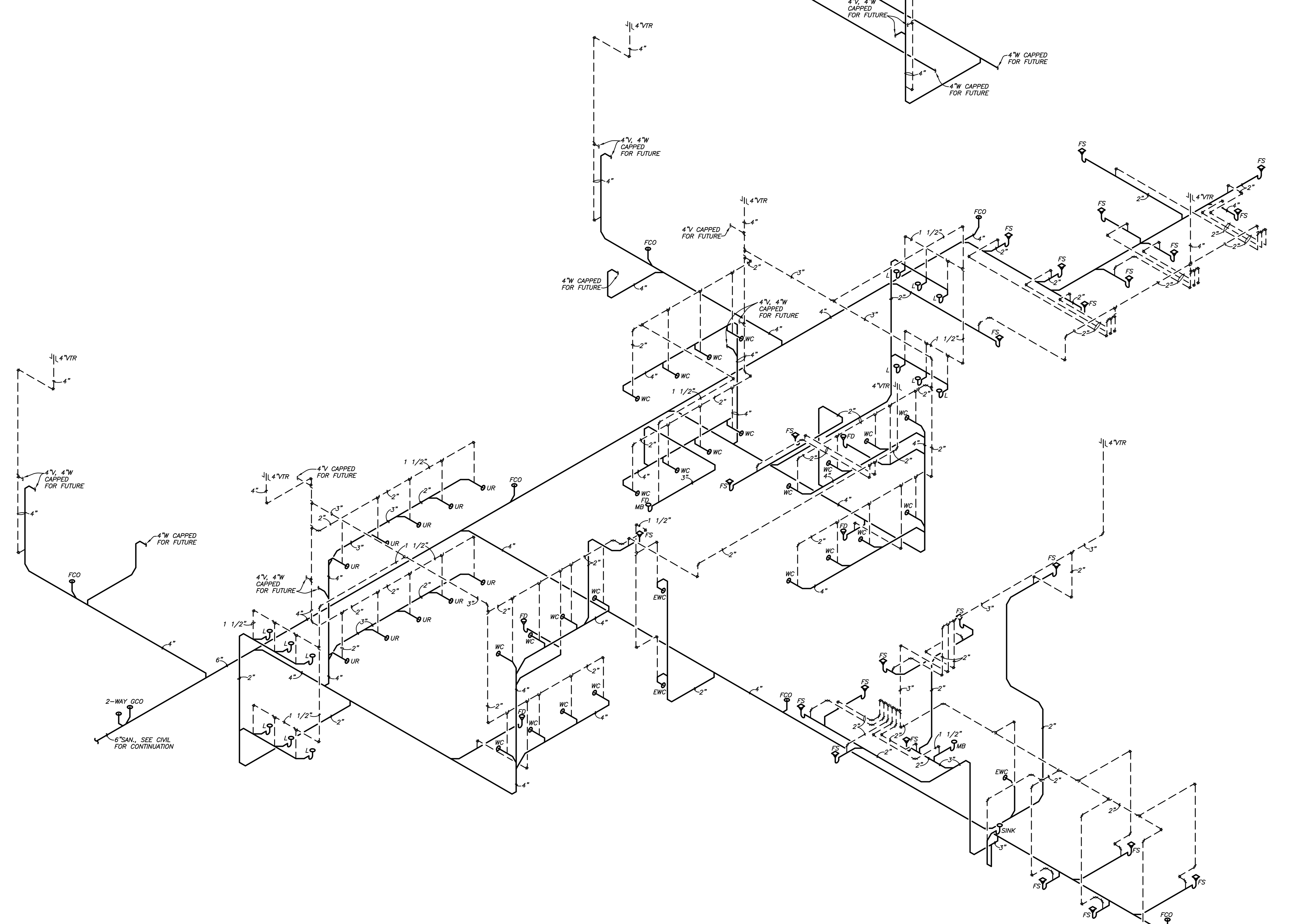
First Floor Plumbing Plan - Area D

DAVIS DESIGN PROJECT NO. 11-0214

P101D



11 NIC Building Isometric
Scale: NOT TO SCALE



12 4H Building Isometric
Scale: NOT TO SCALE

PLUMBING SYMBOL LEGEND
(AS APPLICABLE)

VALVES AND FITTINGS

Symbol	Description	Symbol	Description
	ELBOW		UNION
	ELBOW – OUTLET DOWN		STRAINER
	ELBOW – OUTLET UP		PRESSURE REDUCING VALVE
	ELBOW – 45°		AIR VENT
	TEE		PRESSURE GAUGE
	TEE – OUTLET DOWN		THERMOMETER
	TEE – OUTLET UP		PETE'S PLUG – PRESSURE AND TEMPERATURE TEST PORT
	CROSS FITTING		FLEX CONNECTION
	CAP		INLINE PUMP
	GATE/ISOLATION VALVE		REDUCER, CONCENTRIC
	BALANCING VALVE/CIRCUIT SETTER		REDUCER, ECCENTRIC
	3-WAY VALVE		PIPE ANCHOR
	CHECK VALVE (ARROW INDICATES FLOW)		DOUBLE CHECK BACKFLOW PREVENTER
	GLOBE/DRAIN VALVE		
	TEMP. CONTROL VALVE (2-WAY)		
	TEMP. CONTROL VALVE (3-WAY)		

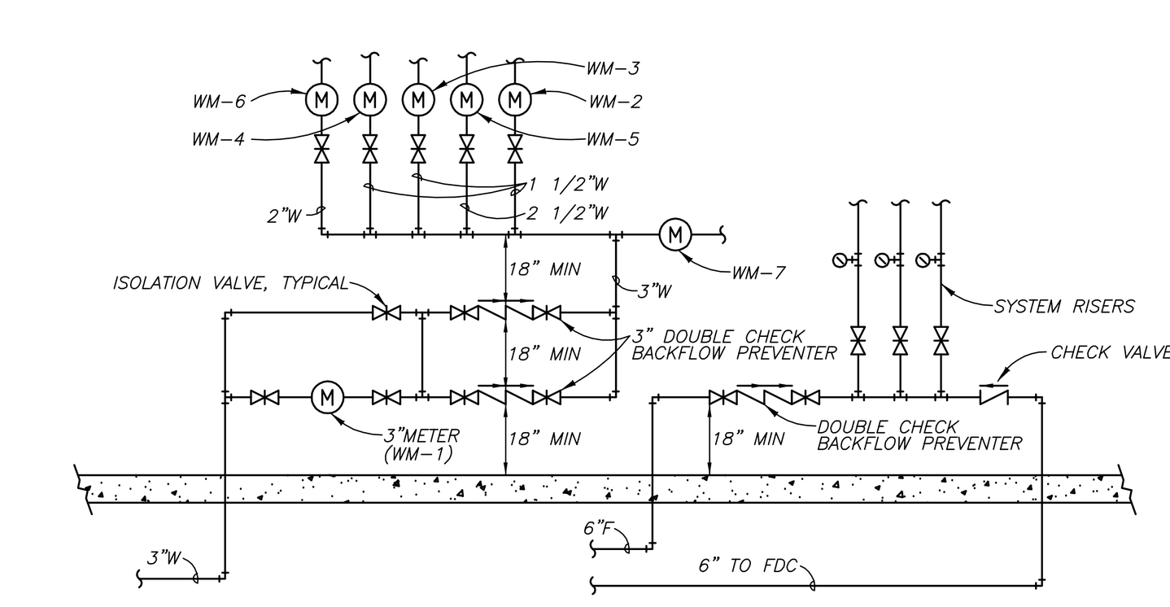
PLUMBING

Symbol	Description	Symbol	Description
	DOMESTIC COLD WATER PIPING	FD	FLOOR DRAIN
	DOMESTIC HOT WATER PIPING	FS	FLOOR SINK
	DOMESTIC HOT WATER RECIRCULATION PIPING	VTR	VENT THRU ROOF
TW	DOMESTIC TEMPERED WATER PIPING	WC	WATER CLOSET
SCW	DOMESTIC SOFTENED COLD WATER PIPING	UR	URINAL
	PIPE REMOVAL	L	LAVATORY
	SANITARY PIPING ABOVE FLOOR OR GRADE	S	SINK
	SANITARY PIPING BELOW FLOOR OR GRADE	DF	DRINKING FOUNTAIN
	VENT PIPING	EWC	ELECTRIC WATER COOLER
VBG	VENT PIPING BELOW FLOOR OR GRADE	SH	SHOWER
F	FIRE SPRINKLER PROTECTION PIPING	ESH	EMERGENCY SHOWER
ST	STORM PIPING ABOVE FLOOR OR GRADE	MB	MOP BASIN
ST	STORM PIPING BELOW FLOOR OR GRADE	SS	SERVICE SINK
OF	STORM OVERFLOW PIPING ABOVE FLOOR OR GRADE	GWH	GAS WATER HEATER
OF	STORM OVERFLOW PIPING BELOW FLOOR OR GRADE	EWH	ELECTRIC WATER HEATER
FDC	FIRE DEPARTMENT CONNECTION		
HB/WH	HOSE BIBB/WALL HYDRANT		
CO/WCO	CLEANOUT/WALL CLEANOUT		
FCO/GCO	FLOOR CLEANOUT/GRADE CLEANOUT		

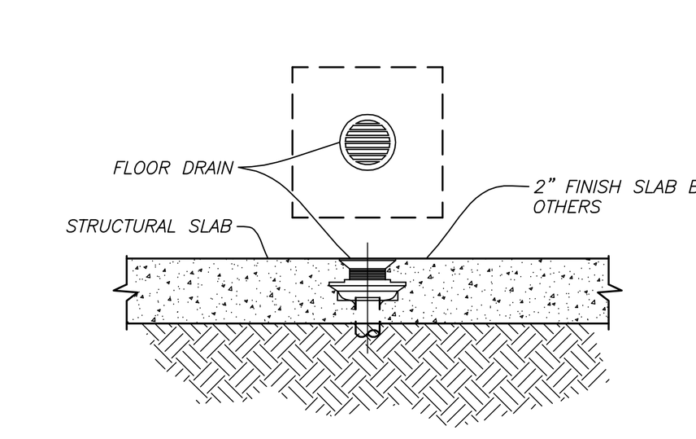
WARMING KITCHEN EQUIPMENT SCHEDULE

MARK	DESCRIPTION	QUANTITY	MECHANICAL CONNECTIONS: HOT WATER	COLD WATER	DRAIN	GAS	NOTES
101	ICE MACHINE + BIN	1	-	3/8"	(2) 3/4" TO FS	-	1,2
101A	WATER FILTER	1	-	1/2"	-	-	
102	COFFEE MAKER	1	-	1/2"	-	-	3
102A	COFFEE / BEVERAGE FILTER	1	-	1/2"	-	-	
103	TEA MAKER	1	-	1/4"	-	-	3
104	PREP TABLE & SINK	1	1/2"	1/2"	1 1/2" TO FS	-	1
105	LEVER DRAIN	4	-	-	2" TO FS	-	1,4
110	PREP TABLE & SINK	1	1/2"	1/2"	1 1/2" TO FS	-	1
111	HAND SINK	1	1/2"	1/2"	1 1/2" IPS	-	
113	3-COMPARTMENT SINK	1	(2) 1/2"	(2) 1/2"	1 1/2" TO FS	-	1
114	UNDERCOUNTER DISH MACHINE	1	-	3/4"	3/4" TO FS	-	1
115	DISPOSER	1	-	1/2"	2" TO FS	-	5,6
116	VACUUM BREAKER	1	1/2"	1/2"	-	-	7
117	PRE-RINSE FAUCET	1	1/2"	1/2"	-	-	
118	SWING SPOUT FAUCET	1	1/2"	1/2"	-	-	
200B	EVAPORATOR	1	-	-	5/8" TO FS	-	1
201	ICE MAKER + BIN	1	-	3/8"	(2) 3/4" TO FS	-	1
201A	WATER FILTER	1	-	1/2"	-	-	
202	COFFEE MAKER	1	-	1/2"	-	-	
202A	COFFEE / BEVERAGE FILTER	1	-	1/2"	-	-	
203	TEA MAKER	1	-	1/4"	-	-	
204	PREP TABLE & SINK	1	1/2"	1/2"	1 1/2" TO FS	-	1
205	LEVER DRAIN	3	-	-	2" TO FS	-	1,4
207	HAND SINK	1	1/2"	1/2"	1 1/2" IPS	-	
212	DROP-IN HOT WELL	1	-	-	1/2" TO FS	-	1
213	3-COMPARTMENT SINK	1	(2) 1/2"	(2) 1/2"	1 1/2" TO FS	-	1
215	DISPOSER	1	-	1/2"	2" TO FS	-	5,6
216	VACUUM BREAKER	1	1/2"	1/2"	-	-	8
217	PRE-RINSE FAUCET	1	1/2"	1/2"	-	-	
218	SWING SPOUT FAUCET	2	1/2"	1/2"	-	-	

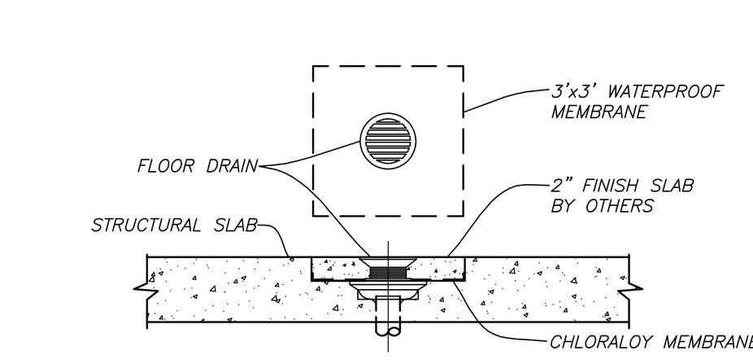
NOTES:
1. EXTEND INDIRECT WASTE DRAIN TO FLOOR DRAIN / FLOOR SINK. PROVIDE AIR GAP, VERIFY SIZE BEFORE INSTALLATION.
2. PROVIDE FILTERED WATER FROM ITEM 101A
3. PROVIDE FILTERED WATER FROM ITEM 102A
4. INSTALL VALVE HANDLE IN FRONT OF SINKS.
5. PIPE AS RECOMMENDED BY MANUFACTURER.
6. CONNECT DIRECTLY TO SANITARY DRAINAGE SYSTEM.
7. SERVES ITEM 115.
8. SERVES ITEM 215.



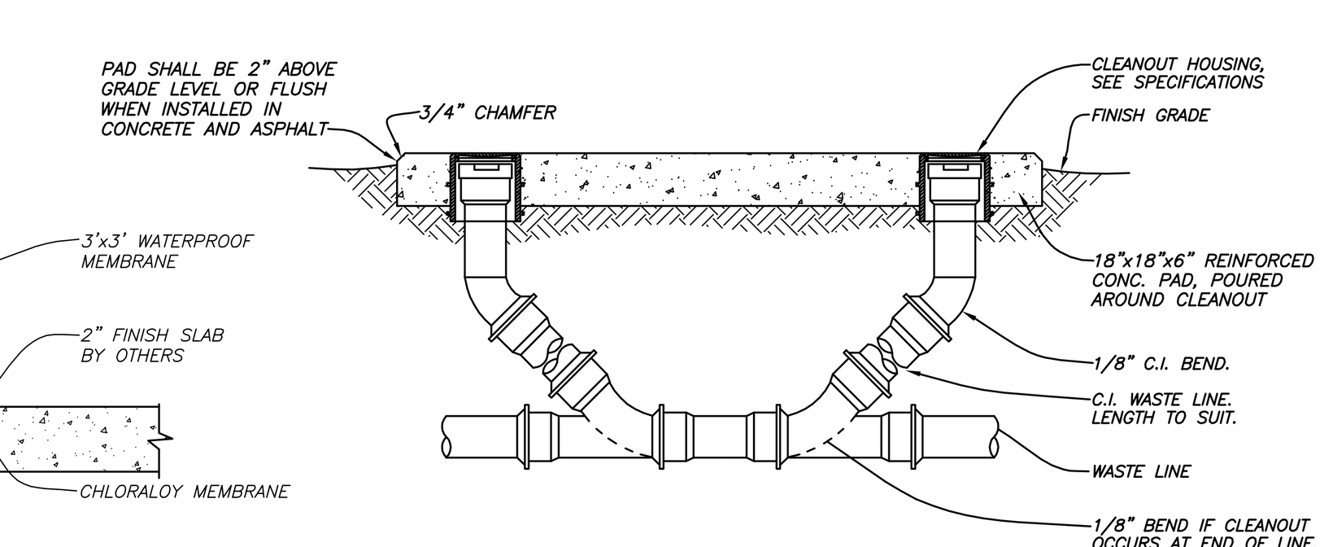
1 Domestic Water and Fire Service Piping Detail
Scale: NOT TO SCALE



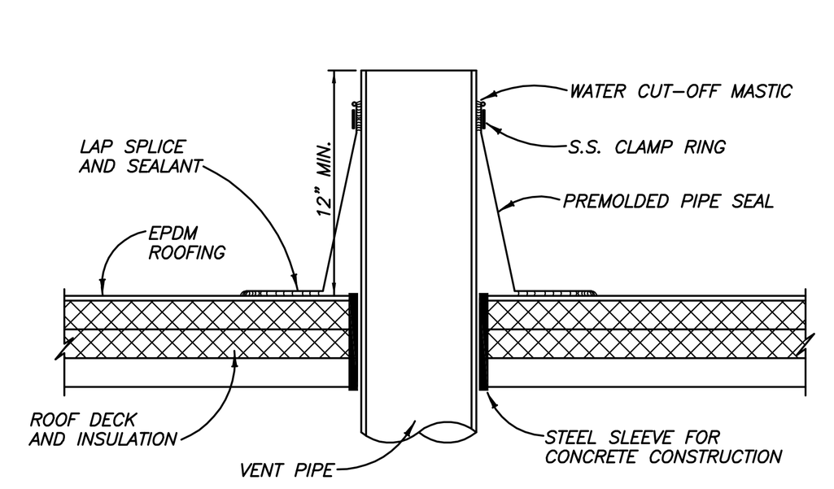
2 Floor Drain (Slab on Grade) Detail
Scale: NO SCALE



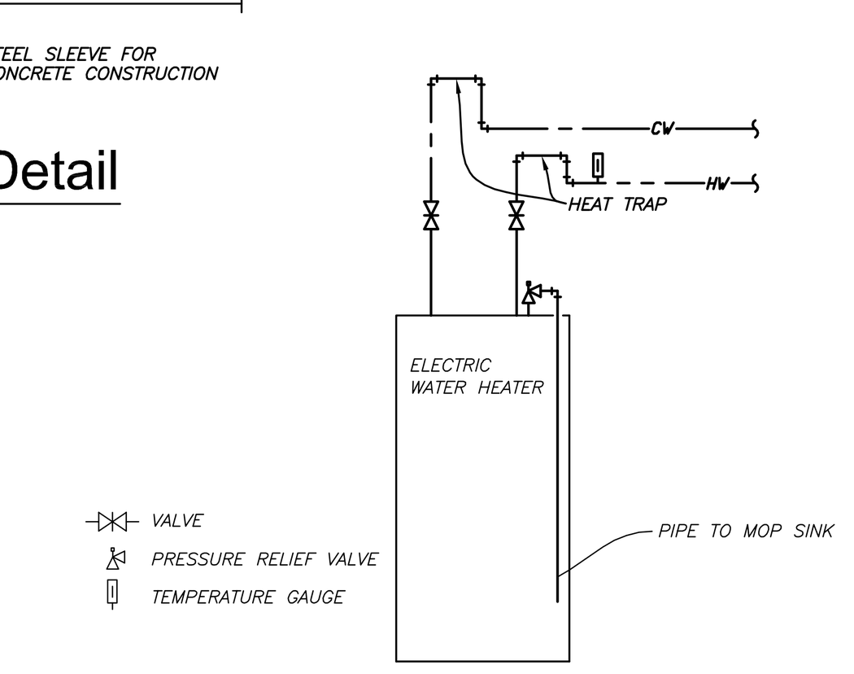
3 Floor Drain Detail
Scale: NO SCALE



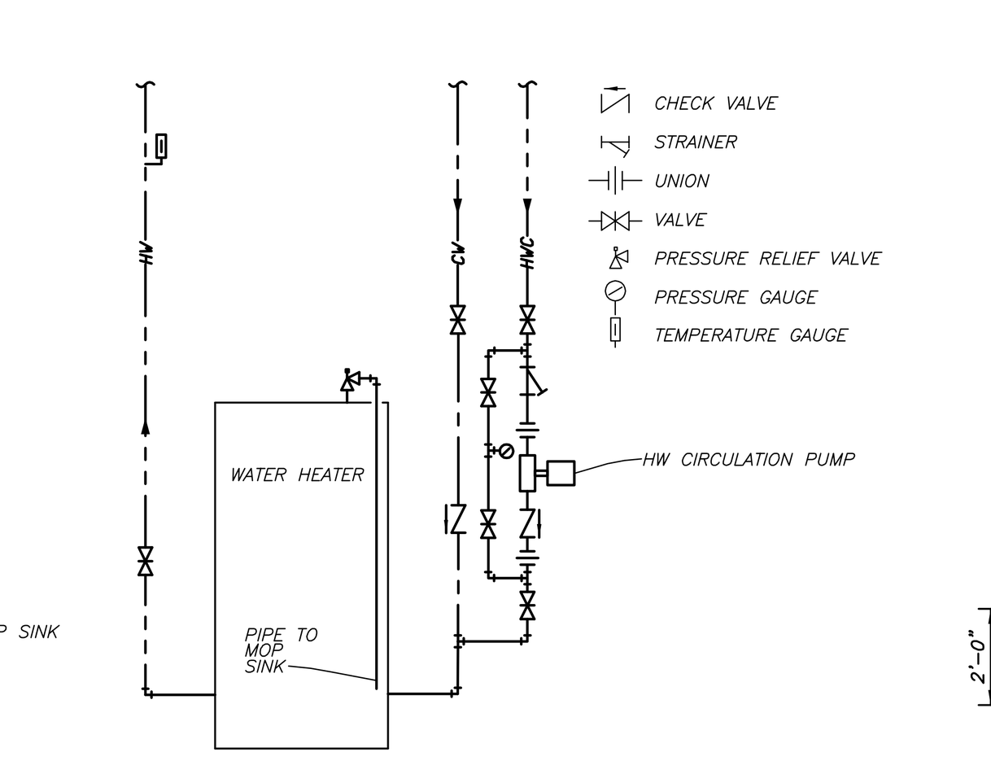
4 2-way Grade Cleanout Detail
Scale: NOT TO SCALE



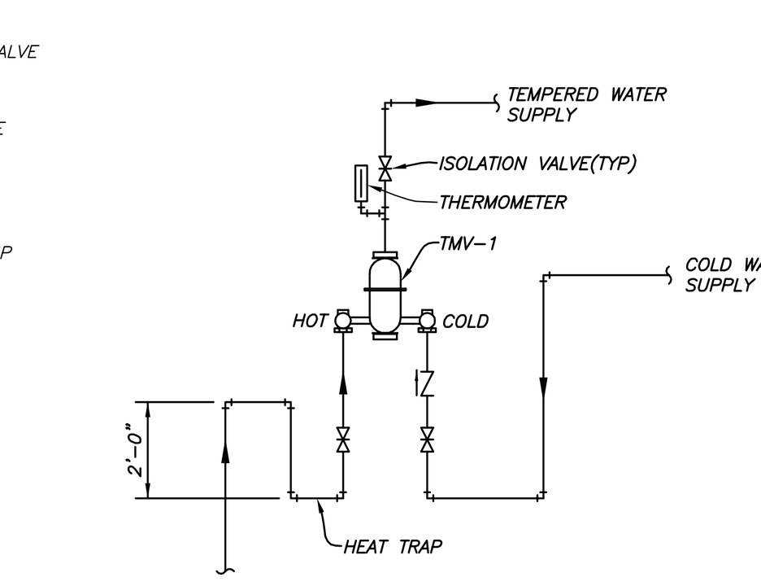
6 Vent Thru Roof Detail
Scale: NOT TO SCALE



7 Domestic Water Heater Piping Detail
Scale: NO SCALE



8 Domestic Water Heater W/ Circulating Pump Detail
Scale: NO SCALE



9 Thermostatic Mixing Valve Detail
Scale: NOT TO SCALE

PLUMBING EQUIPMENT SCHEDULE

EWH-1,2 ELECTRIC WATER HEATER (PUBLIC RESTROOMS)
- MFR/MODEL: AO SMITH DRE-52-12
- CAPACITY: 50 GALLON, 12kW INPUT
- POWER: 480 / 3 / 60
- NOTES: PROVIDE AMTROL ST-5 EXPANSION TANK ON COLD WATER INLET. STORE AT 140°F, DISTRIBUTE 110°F THROUGH TMV-1, TMV-2.

EWH-3 ELECTRIC WATER HEATER (CATERING KITCHENS)
- MFR/MODEL: AO SMITH DRE-52-36
- CAPACITY: 50 GALLON, 36kW INPUT
- POWER: 480 / 3 / 60
- NOTES: PROVIDE AMTROL ST-5 EXPANSION TANK ON COLD WATER INLET. STORE AT 140°F, DISTRIBUTE 110°F THROUGH TMV-3.

TMV-1,2,3 THERMOSTATIC MIXING VALVE
- MFR/MODEL: POWERS LFLM492
- SETPOINT: 110°F
- CONNECTIONS 1" INLETS AND OUTLET
- NOTES: SERVES 110°F FIXTURES.

HWCP-1 HOT WATER CIRCULATION PUMP
- MFR/MODEL: TACO MODEL 003BC
- CAPACITY: 1/40 HP, 1 GPM AT 4 FT OF HEAD
- CONNECTIONS 1/2" INLETS AND OUTLET
- POWER: 120 / 1 / 60
- NOTES: LOW LEAD BRONZE CONSTRUCTION FOR DOMESTIC WATER APPLICATION. SCHEDULED VIA BUILDING MANAGEMENT SYSTEM.

WS-1 WATER SOFTENER (HYDRONIC MAKE-UP)
- MFR/MODEL: WOODS BROTHERS IND. WATER SOFTENER MODEL WB95T60-12
- CAPACITY: 23 GPM CONTINUOUS FLOW, 32 GPM PEAK FLOW, 30,000 GRAINS EACH TANK
- CONNECTIONS 1 1/2" NPT
- POWER: 120 / 1 / 60
- NOTES: TWIN ALTERNATING SYSTEM WITH ELECTRONIC CONTROLLER AND METERED REGENERATION. 12"x52" DUPLEX RESIN TANKS, 18"x40" BRINE TANK DELETE AS PART OF ALTERNATE NO. 1B AND 1C.

SP-1,2,3 SUMP PUMP (ELEVATOR PITS)
- MFR/MODEL: ZOELLER SUMP PUMP PACKAGE #900-0002, WITH FLOAT SWITCH, CHECK VALVE AND 18"X22" POLYETHYLENE BASIN WITH GRATED COVER.
- POWER: 120 / 1 / 60
- CONNECTIONS 1 1/2" DISCHARGE

WM-1 MAIN WATER METER PROVIDED BY CITY, INSTALLED BY CONTRACTOR.

WM-2 4H - EAST SUB-METER
- MFR/MODEL: BADGER MODEL 55 WITH RECORDALL TRANSMITTER REGISTER (RTR)
- CAPACITY: 1 TO 55 GPM (0.5 GPM MIN, 40 GPM MAX CONTINUOUS)
- CONNECTIONS 1" THREADED
- NOTES: PROVIDE DIGITAL PULSE OUTPUT TO BUILDING MANAGEMENT SYSTEM.

WM-3 4H - WEST SUB-METER
- MFR/MODEL: BADGER MODEL 55 WITH RECORDALL TRANSMITTER REGISTER (RTR)
- CAPACITY: 1 TO 55 GPM (0.5 GPM MIN, 40 GPM MAX CONTINUOUS)
- CONNECTIONS 1" THREADED
- NOTES: PROVIDE DIGITAL PULSE OUTPUT TO BUILDING MANAGEMENT SYSTEM.

WM-4 RESTAURANT SUB-METER
- MFR/MODEL: BADGER MODEL 55 WITH RECORDALL TRANSMITTER REGISTER (RTR)
- CAPACITY: 1 TO 55 GPM (0.5 GPM MIN, 40 GPM MAX CONTINUOUS)
- CONNECTIONS 1" THREADED
- NOTES: PROVIDE DIGITAL PULSE OUTPUT TO BUILDING MANAGEMENT SYSTEM.

WM-5 COMMONS/LINK SUB-METER
- MFR/MODEL: BADGER MODEL 170 WITH RECORDALL TRANSMITTER REGISTER (RTR)
- CAPACITY: 2.5 TO 170 GPM (1.5 GPM MIN, 100 GPM MAX CONTINUOUS)
- CONNECTIONS 2" FLANGED
- NOTES: PROVIDE DIGITAL PULSE OUTPUT TO BUILDING MANAGEMENT SYSTEM.

WM-6 COMPANION SUB-METER
- MFR/MODEL: BADGER MODEL 120 WITH RECORDALL TRANSMITTER REGISTER (RTR)
- CAPACITY: 2.5 TO 120 GPM (1.25 GPM MIN, 80 GPM MAX CONTINUOUS)
- CONNECTIONS 1 1/2" FLANGED
- NOTES: PROVIDE DIGITAL PULSE OUTPUT TO BUILDING MANAGEMENT SYSTEM.

WM-7 HYDRONIC MAKEUP WATER METER
- MFR/MODEL: BADGER MODEL 55 WITH RECORDALL TRANSMITTER REGISTER (RTR)
- CAPACITY: 1 TO 55 GPM (0.5 GPM MIN, 40 GPM MAX CONTINUOUS)
- CONNECTIONS 1" THREADED
- NOTES: PROVIDE DIGITAL PULSE OUTPUT TO BUILDING MANAGEMENT SYSTEM.

BFP-1 MAIN BACKFLOW PREVENTER
- MFR/MODEL: 3" DOUBLE CHECK MODEL APPROVED BY CITY
- CONNECTIONS 3" FLANGED

BFP-2 HYDRONIC MAKEUP BACKFLOW PREVENTER
- MFR/MODEL: 1 1/2" REDUCED PRESSURE MODEL APPROVED BY CITY
- CONNECTIONS 1 1/2" THREADED

GI-1 GREASE INTERCEPTOR
- MFR/MODEL: WORKMAN PRECAST MODEL GI-1500
- CAPACITY: 1,500 GALLON
- CONNECTIONS 4" INLET, 4" OUTLET

PLUMBING FIXTURE SCHEDULE

WC-1 WATER CLOSET (WALL HUNG)
- FIXTURE: AMERICAN STANDARD 'AFWALL' FLOWISE, 1.28 GPF, 3351.001, TOP SPUD.
- FLUSH VALVE: SLOAN OPTIMA 111-1.28 ECOS HW WITH COPPER SWEAT ADAPTER, EL-451 120V/6V TRANSFORMER FOR EACH BANK OF WATER CLOSETS AND URINALS UP TO SIX. MOUNT TRIP LEVER ON ACCESSIBLE SIDE OF STALL.
- SEAT: OLSONITE #95CT, ELONGATED OPEN FRONT LESS COVER.
- MOUNTING HT.: 15" FLOOR TO RIM, ADJUSTABLE NO-HUB CARRIER.
- CONNECTIONS: 4"S, 2"V, 1-1/2"CW

WC-2 WATER CLOSET (WALL HUNG, ADA)
- FIXTURE: AMERICAN STANDARD 'AFWALL' FLOWISE, 1.28 GPF, 3351.001, TOP SPUD.
- FLUSH VALVE: SLOAN OPTIMA 111-1.28 ECOS HW WITH COPPER SWEAT ADAPTER, EL-451 120V/6V TRANSFORMER FOR EACH BANK OF WATER CLOSETS AND URINALS UP TO SIX. MOUNT TRIP LEVER ON ACCESSIBLE SIDE OF STALL.
- SEAT: OLSONITE #95CT, ELONGATED OPEN FRONT LESS COVER.
- MOUNTING HT.: 17" FLOOR TO RIM, ADJUSTABLE NO-HUB CARRIER.
- CONNECTIONS: 4"S, 2"V, 1-1/2"CW

UR-1 URINAL
- FIXTURE: AMERICAN STANDARD 'ALLBROOK' FLOWISE, 0.5 GPF, 6550.005, TOP SPUD.
- FLUSH VALVE: SLOAN OPTIMA 186-0.5 ECOS HW WITH COPPER SWEAT ADAPTER, EL-451 120V/6V TRANSFORMER FOR EACH BANK OF WATER CLOSETS AND URINALS UP TO SIX.
- MOUNTING HT.: 24" FLOOR TO RIM, ADJUSTABLE NO-HUB CARRIER.
- CONNECTIONS: 2"S, 1-1/2"V, 3/4"CW

UR-2 URINAL (ADA)
- FIXTURE: AMERICAN STANDARD 'ALLBROOK' FLOWISE, 0.5 GPF, 6550.005, TOP SPUD.
- FLUSH VALVE: SLOAN OPTIMA 186-0.5 ECOS HW WITH COPPER SWEAT ADAPTER, EL-451 120V/6V TRANSFORMER FOR EACH BANK OF WATER CLOSETS AND URINALS UP TO SIX.
- MOUNTING HT.: 17" FLOOR TO RIM, ADJUSTABLE NO-HUB CARRIER.
- CONNECTIONS: 2"S, 1-1/2"V, 3/4"CW

L-1 LAVATORY (COUNTER TOP, ADA)
- FIXTURE: KOHLER 'VERTICYL" UNDERMOUNT SINK K-2882
- SUPPLY TRIM: AMERICAN STANDARD SELECTRONIC PROXIMITY 6" GOOSENECK LAVATORY FAUCET, 6057.165, 0.5 GPM WITH THERMOSTATIC MIXING VALVE AND 120V/24V BOX MOUNT TRANSFORMER FOR EACH BANK OF LAVATORIES.
- SUPPLIES: BRASSCRAFT HSCR1912A C WITH CHROMED RISER TUBES
- TRAP: DEARBORN #507
- CONNECTIONS: 1-1/2"W, 1-1/2"V, 1/2"CW, 1/2" HW
- NOTE: THE WASTE PIPING AND WATER SUPPLY PIPING SHALL BE INSULATED WITH TRUEBRO MODEL 102 INSULATION KIT AS REQUIRED BY THE AMERICANS WITH DISABILITIES ACT (ADA)

MB-1 MOP BASIN
- FIXTURE: FIAT MSB 2424
- SUPPLY TRIM: FIAT 830-AA
- MOP HANGER: FIAT 889-CC
- HOSE AND BRACKET. FIAT 832-AA
- WALL GUARDS: FIAT MSG 2424
- CONNECTIONS: 3"W, 1-1/2"V, 1/2"CW, 1/2" HW

EWC-1 ELECTRIC WATER COOLER (DOUBLE, WALL MOUNT, ADA W/ BOTTLE FILLER)
- FIXTURE: ELKAY LZSTL8WSKL
- TRAP: DEARBORN #507
- SUPPLIES: BRASSCRAFT HSCR1912A C WITH CHROMED RISER TUBES
- MOUNTING HT.: 36-13/16" & 31-5/16" RIM HEIGHT
- CONNECTIONS: 1-1/2"W, 1-1/2"V, 1/2"CW

WH-1 WALL HYDRANT (EXTERIOR)
- FIXTURE: WOODFORD MODEL 65 CHROME FINISH
- VAC. BREAKER: NIDEL MODEL 34HA
- CONNECTIONS: 3/4" CW

HB-1 HOSE BIB (INTERIOR)
- FIXTURE: WOODFORD MODEL 24 CHROME FINISH
- VAC. BREAKER: NIDEL MODEL 34HF WITH 3/4" MALE HOSE CONNECTION.
- CONNECTIONS: 3/4" CW

1 **YH-1** YARD HYDRANT
- FIXTURE: WOODFORD MODEL Y95
- VAC. BREAKER: NIDEL MODEL 50HF
- CONNECTIONS: 3/4" CW
- NOTES: INSTALL SERVICE BELOW FROST DEPTH. PROVIDE 1 CUBIC YARD OF GRAVEL AROUND DRAIN HOLE.

FD-1 FLOOR DRAIN (TILE FLOORS)
- FIXTURE: J.R. SMITH 2000 SERIES CAST IRON FLOOR DRAIN WITH FLASHING COLLAR, 2" 'SPEDI-SET' OUTLET, 8"X 8" SQUARE ADJUSTABLE NICKEL BRONZE STRAINER, DEEP P-TRAP.

FD-2 FLOOR DRAIN (POURED FLOORS)
- FIXTURE: J.R. SMITH 2000 SERIES CAST IRON FLOOR DRAIN WITH FLASHING COLLAR, 2" 'SPEDI-SET' OUTLET, ROUND NICKEL BRONZE STRAINER, DEEP P-TRAP.

FS-1 FLOOR SINK
- FIXTURE: J.R. SMITH MODEL 3100 CAST IRON RECEPTOR, 6 1/2" SQUARE, ACID RESISTANT, COATED INTERIOR, NICKEL BRONZE RIM, SECURED GRATE, ALUMINUM DOME STRAINER, 3/4 GRATE.

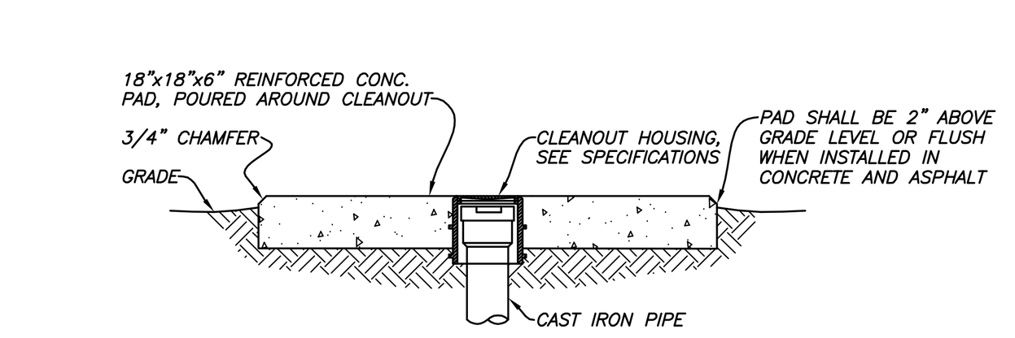
RD-1 ROOF DRAIN
- FIXTURE: J.R. SMITH MODEL 1015 CAST IRON ROOF DRAIN WITH FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, AND CAST IRON DOME.

RD-2 SYPHONIC ROOF DRAIN
- FIXTURE: J.R. SMITH MODEL 1005 CAST IRON ROOF DRAIN WITH FLASHING CLAMP, UNDERDECK CLAMP, SUMP RECEIVER, AND CAST IRON DOME. ENGINEERED SYSTEM, SEE DRAWINGS AND SPECIFICATIONS.

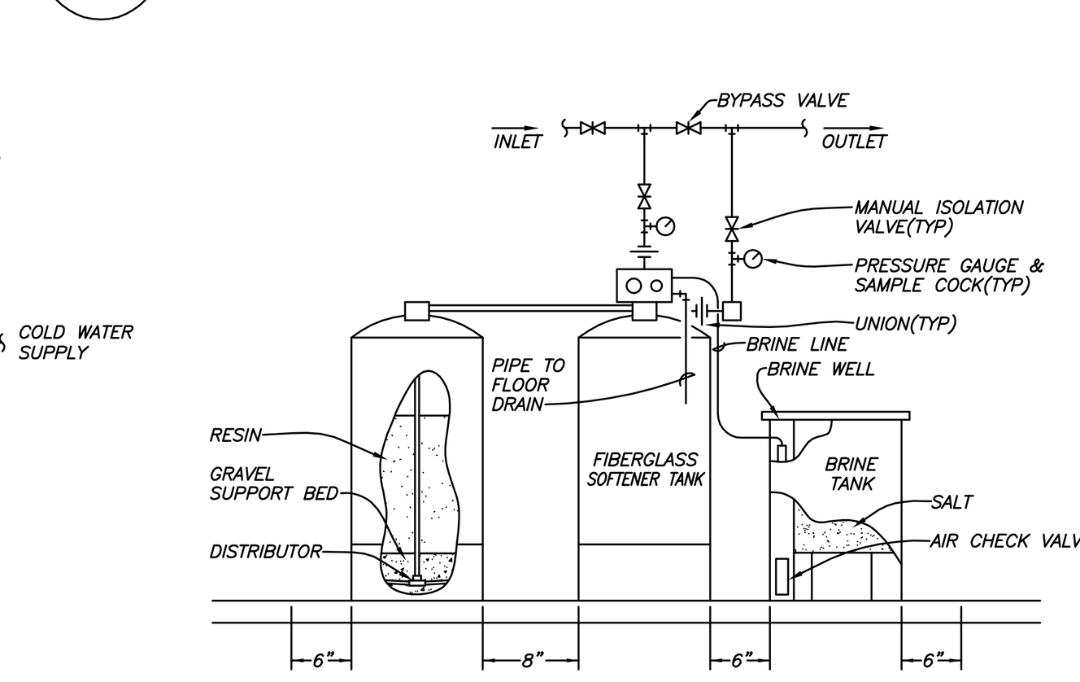
OD-1 OVERFLOW ROOF DRAIN
- FIXTURE: J.R. SMITH MODEL 1045 CAST IRON OVERFLOW TYPE ROOF DRAIN WITH 2 1/2" WATER DAM, FLASHING CLAMP, GRAVEL STOP, UNDERDECK CLAMP, SUMP RECEIVER, AND CAST IRON DOME.

OD-2 SYPHONIC OVERFLOW ROOF DRAIN
- FIXTURE: J.R. SMITH MODEL 1005 CAST IRON ROOF DRAIN WITH WD03 3" EXTERIOR WATER DAM, FLASHING CLAMP, UNDERDECK CLAMP, SUMP RECEIVER, AND CAST IRON DOME. ENGINEERED SYSTEM, SEE DRAWINGS AND SPECIFICATIONS.

DSN-1 DOWNSPOUT NOZZLE
- SMITH MODEL 1770 CAST BRONZE BODY AND FLANGE, WITH BIRDSCREEN.



5 Grade Cleanout Detail
Scale: NOT TO SCALE



10 Water Softener Detail
Scale: NOT TO SCALE

P-501.dwg

REVISIONS: 1 ADDENDUM 1 11-09-2012

DESIGN ENGINEER: BMS
PROJECT ENGINEER: BMS
DRAWN BY: EMA
ISSUED: 10/29/2012

This document originally issued and sealed by:
Brandon M. Sire
Registered Professional Engineer E-11494
On: October 29, 2012
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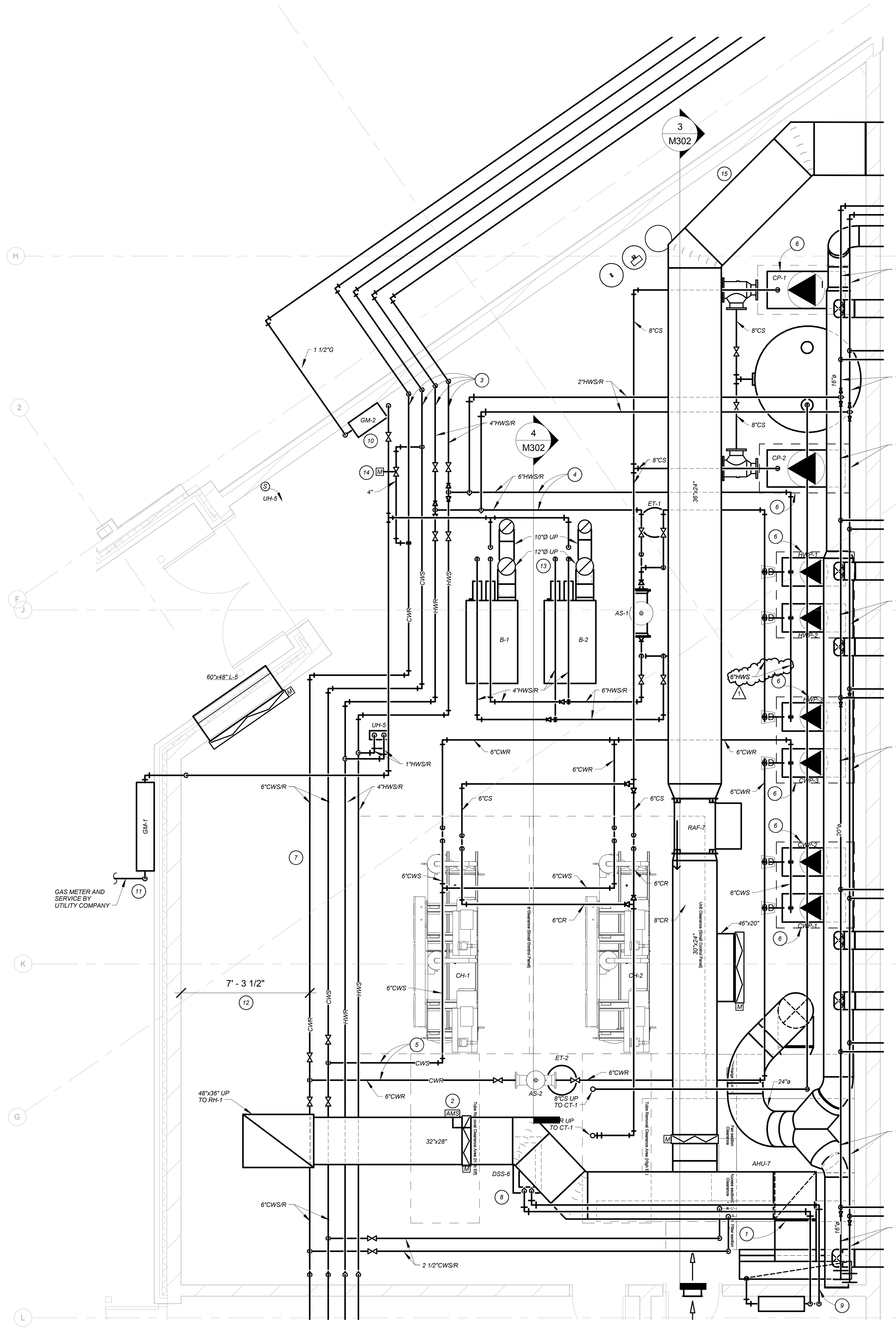
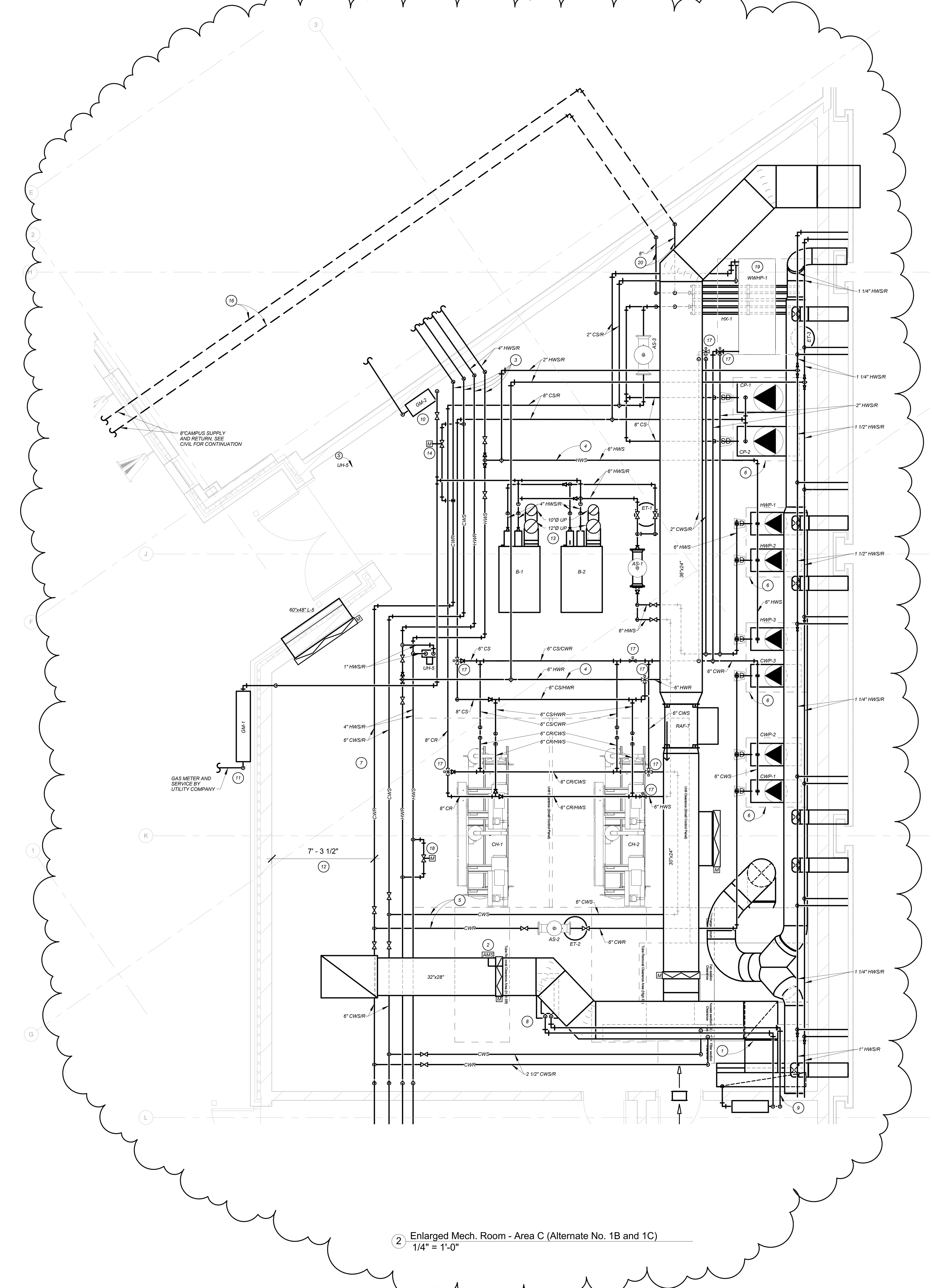
Plumbing Schedules, Details and Isometrics

DAVIS DESIGN PROJECT NO. 11-0214

P501



1 Enlarged Mech. Room - Area C (Base Bid and Alternate No. 1A)
1/4" = 1'-0"



2 Enlarged Mech. Room - Area C (Alternate No. 1B and 1C)
1/4" = 1'-0"

GENERAL MECHANICAL NOTES

1. BOILER AND CHILLER PLANT CONTROLS SHALL BE BY MANUFACTURER AND INTEGRATE VIA BACNET TO THE OWNERS CONTROL SYSTEM. NECESSARY FIELD WIRING FOR BOILER AND CHILLER PLANT CONTROLS SHALL BE PERFORMED BY OWNER'S CONTROL CONTRACTOR. REFERENCE THE FOLLOWING SPECIFICATIONS SECTIONS FOR DETAILS; 230900, 230993, 235216 AND 236426.

2. ALL ROUND DUCTWORK SERVING AIR TERMINALS SHALL BE CONNECTED TO MAINS WITH A HIGH EFFICIENCY TAKEOFF. SEE SPECIFICATIONS FOR DETAILS.

3. PROVIDE TEMPORARY SPACERS BELOW DUCTWORK TO RECEIVE INSULATION TO ALLOW FOR INSTALLATION OF DUCT INSULATION WITHOUT CRUSHING. DO NOT SWALLOW TRAPEZE DUCT HANGERS IN INSULATION.

4. PROVIDE TEMPORARY SPACERS BELOW PIPING TO RECEIVE INSULATION TO ALLOW FOR INSTALLATION OF PIPE INSULATION WITHOUT CRUSHING. DO NOT SWALLOW PIPE HANGERS IN INSULATION.

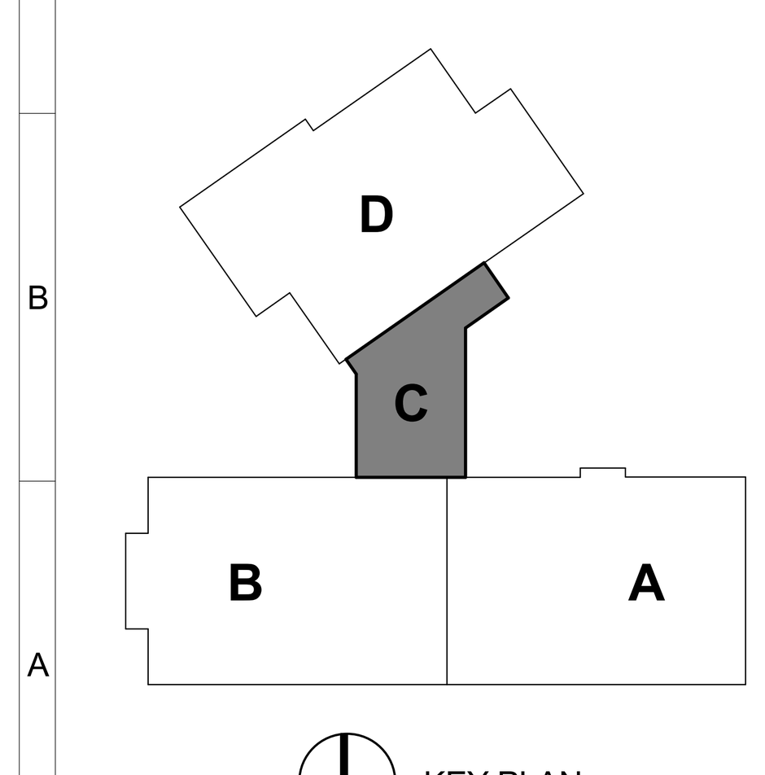
5. BRONZE BALL VALVES WILL NOT BE ACCEPTED AS A SUFFICIENT DIELECTRIC BREAK, SEE SPECIFICATIONS FOR DIELECTRIC FITTING REQUIREMENTS.

6. ALL COOLING COIL CONDENSATE DRAINS SHALL BE ROUTED TO NEAREST FLOOR DRAIN.

7. COORDINATE ALL EQUIPMENT HOUSEKEEPING PADS WITH GENERAL CONTRACTOR.

KEYED MECHANICAL NOTES

1. OMIT TURNING VANES FROM ELBOWS.
2. TWO SECTION OUTSIDE AIR DAMPER 6"x28" OUTSIDE AIR DAMPER WITH OUTSIDE AIRFLOW MEASUREMENT SYSTEM, 26"x28" ECONOMIZER DAMPER.
3. INSTALL CHILLED WATER BTU METER (CWM-4) AND HEATING HOT WATER BTU METER (HWM-4) AT THIS LOCATION. METERS PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE REQUIRED STRAIGHT LENGTHS OF PIPING.
4. INSTALL HEATING HOT WATER BTU METER (HWM-1) AT THIS LOCATION. METER PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE REQUIRED STRAIGHT LENGTHS OF PIPING.
5. INSTALL CHILLED WATER BTU METER (CWM-1) AT THIS LOCATION. METER PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE REQUIRED STRAIGHT LENGTHS OF PIPING.
6. INSTALL PUMPS ON INERTIA BASE, GROUP ADJACENT PUMPS ON COMMON BASES.
7. CONTROLS CONTRACTOR TO UTILIZE UNISTRUT SUPPORT BY ELECTRICAL CONTRACTOR FOR CONTROL PANEL MOUNTING. SEE ELECTRICAL DRAWINGS AND COORDINATE.
8. INSTALL DSS-6 CONDENSING UNIT ON 4" HOUSEKEEPING PAD WITH NEOPRENE PADS FOR VIBRATION ISOLATION.
9. SIZE AND INSTALL REFRIGERANT PIPING TO DSS-6 PER MANUFACTURERES REQUIREMENTS.
10. GM-2 SERVING RESTAURANT AREA SHALL BE AMERICAN METER COMPANY AC-800 OR APPROVED EQUAL, CAPABLE OF 1900 CFH AT 2 PSI INLET PRESSURE. PROVIDE PULSE OUTPUT FOR MONITORING PURPOSES BY BMS
11. MAINTAIN MINIMUM 3'-0" REQUIRED CLEARANCE OF GAS METER FROM ELECTRICAL EQUIPMENT.
12. MAINTAIN MINIMUM 7'-0" CLEAR FROM EDGE OF PIPING TO WALL FOR ELECTRICAL EQUIPMENT.
13. TERMINATE PVC COMBUSTION AIR INLET AND FLUE ABOVE ROOF PER MANUFACTURERS AND CODE REQUIREMENTS.
14. INSTALL 4" CHILLED WATER BYPASS VALVE. CONTROL VALVE SHALL BE PRESSURE INDEPENDENT CHARACTERIZED CONTROL VALVE SIZED FOR A MINIMUM FLOW OF 215 GPM.
15. HVAC WATER TREATMENT SYSTEM INSTALLED IN THIS AREA.
16. CAMPUS CONDENSER LOOP PIPING BELOW BUILDING SHALL MATCH MATERIAL SPECIFIED FOR EXTERIOR CAMPUS CONDENSER PIPING.
17. CONTROL VALVE FOR CHANGEOVER BETWEEN HEATING HOT WATER AND CHILLED WATER OPERATION OF CHILLER/HEATERS CONTROLLED BY CHILLER/HEATER PLANT.
18. INSTALL 4" HEATING HOT WATER BYPASS VALVE. CONTROL VALVE SHALL BE PRESSURE INDEPENDANT CHARACTERIZED CONTROL VALVE SIZED FOR A MINIMUM FLOW OF 245 GPM.
19. SUPPORT WWHP-1 OVER HX-1, MAINTAIN REQUIRED SERVICE CLEARANCES.
20. INSTALL CAMPUS CONDENSER LOOP BTU METER (CCLM-1) AT THIS LOCATION. METER PROVIDED BY CONTROLS CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE REQUIRED STRAIGHT LENGTHS OF PIPING.



KEY PLAN

REVISIONS: 1 ADDENDUM 1 11/09/2012

DESIGN ENGINEER: BMS
PROJECT ENGINEER: BMS
DRAWN BY: EMA
ISSUED: 10/29/2012

This document originally issued and sealed by:

Brandon M. Sire
Registered Professional
Engineer E-11494

On: **October 29, 2012**

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Enlarged Mechanical Plans - Area C

DAVIS DESIGN PROJECT NO. 11-0214

M403C