

FRISCO PENINSULA RECREATION AREA SITE IMPROVEMENTS

DESIGN DEVELOPMENT

TOWN OF FRISCO,
STATE OF COLORADO
80443

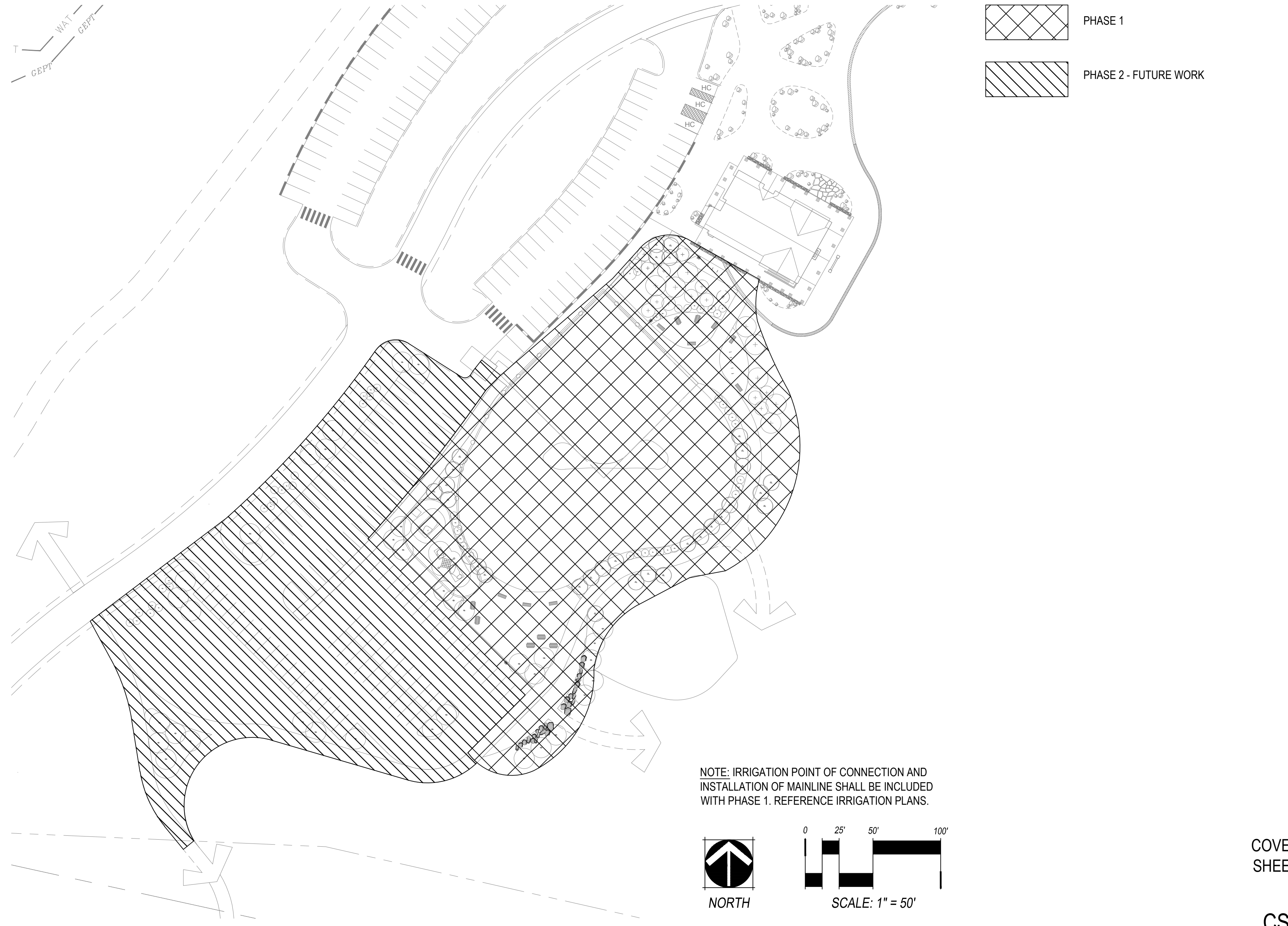
VICINITY MAP



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PHASING DIAGRAM



OWNER

TOWN OF FRISCO
1 MAIN STREET
FRISCO, CO 80443
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DIRECTOR OF RECREATION & ASSISTANT
TOWN MANAGER
P: 970.668.2559

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CONTACT: TYLER LUNDGAARD
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LANDSCAPE ARCHITECT

NORRIS DESIGN
409 MAIN STREET
SUITE 207
FRISCO, CO 80443
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ARCHITECT

ARCHITECTURE URBAN DESIGN INTERIOR DESIGN
OZ ARCHITECTURE
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DENVER, CO 80205
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SKATEPARK DESIGNER

EVERGREEN SKATEPARKS
5327 SE 69TH AVENUE
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CIVIL ENGINEER

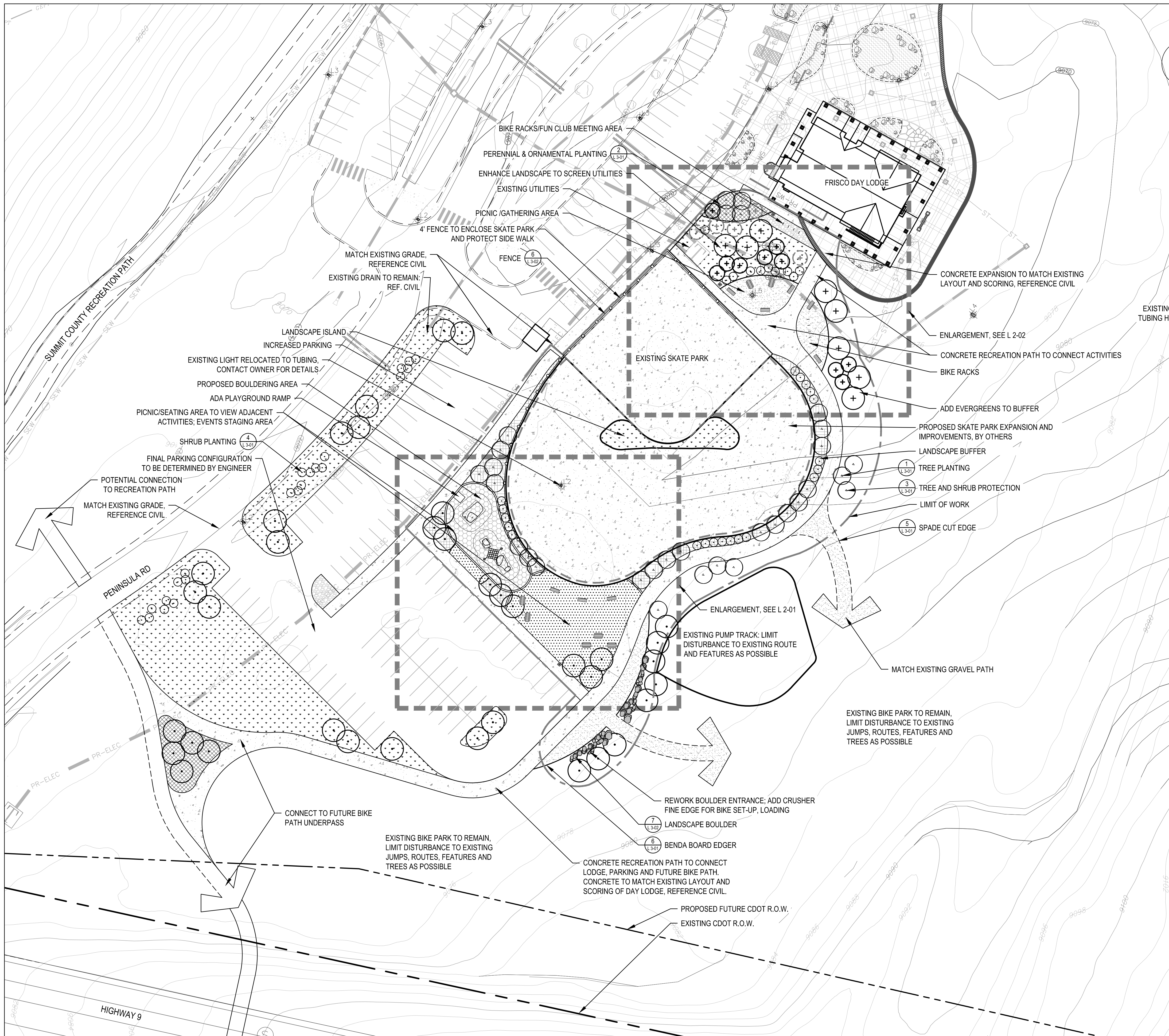
MARTIN & MARTIN
CONSULTING ENGINEERS
101 FAWCETT ROAD
SUITE 260
AVON, CO 81620
P: 970.926.6007

IRRIGATION

NORRIS DESIGN
418 NORTH TOOLE AVENUE
TUCSON, AZ 85701
P: 520.622.9565

LEGEND

- | | |
|-----------------------|----------------------------|
| — BENDA BOARD EDGER | - - - SKATE PARK EXPANSION |
| - - - SPACE CUT EDGER | - - - LIMIT OF WORK |
| — CONCRETE CURB | — ENLARGEMENT LINE |
| — FENCE | |
| CONCRETE (RE-CIVIL) | DECIDUOUS TREES |
| SEED | EVERGREEN TREES |
| COBBLE | DECIDUOUS SHRUBS |
| CRUSHER FINES | EXISTING TREES TO REMAIN |
| PERENNIALS (SEED MIX) | BENCH |
| SOD | BIKE RACK |
| 3"-6" CLEAN COBBLE | PICNIC TABLE |
| ENGINEERED WOOD FIBAR | LANDSCAPE BOULDERS |



FRISCO PENINSULA
 SITE IMPROVEMENTS
 FRISCO, CO
 DESIGN DEVELOPMENT

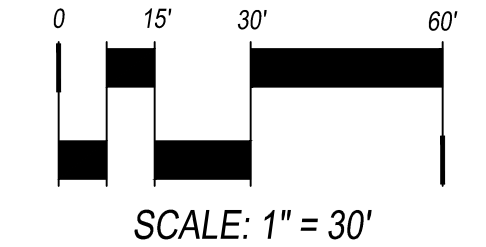
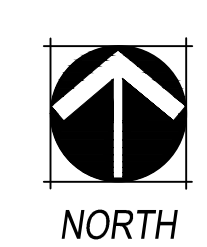
OWNER:
 TOWN OF FRISCO
 1 MAIN STREET
 FRISCO, CO
 970.668.5276
 970.668.0677



DATE:
 04.27.2018
 DD PRICING SET

SHEET TITLE:
 OVERALL
 LANDSCAPE PLAN

L-1-01



NOT FOR CONSTRUCTION

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 DRAWN BY:
 MT
 AR, LM, EN

FRISCO PENINSULA
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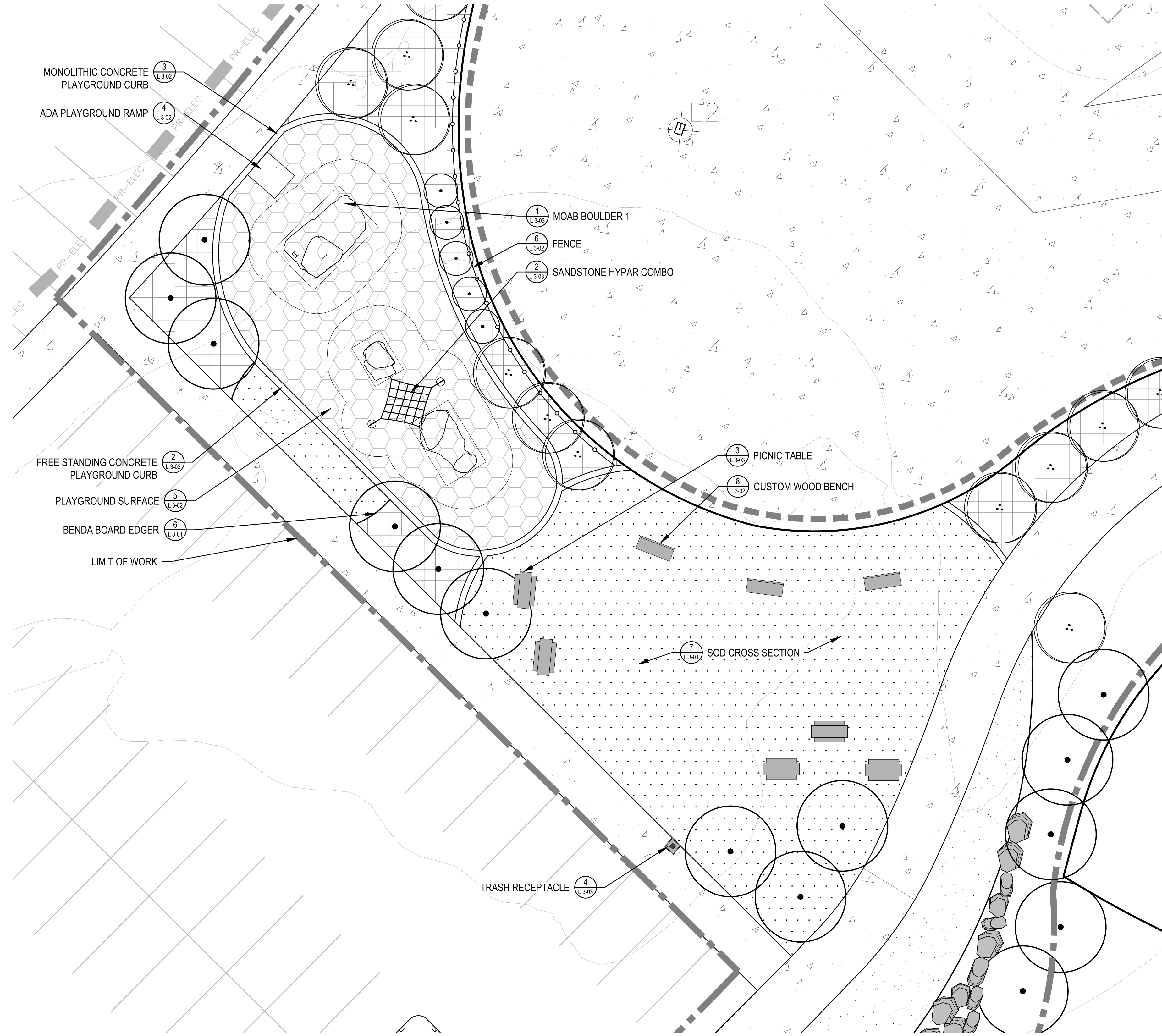
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 04.27.2018
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SHEET TITLE:
 LANDSCAPE
 ENLARGEMENT

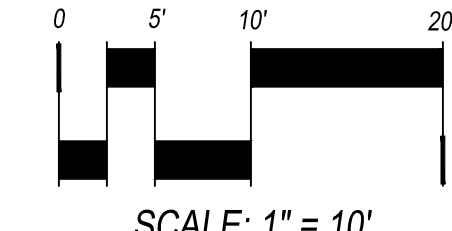
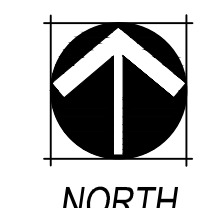
L 2-01

LEGEND

- BENDA BOARD EDGER
- - - SPADE CUT EDGER
- CONCRETE CURB
- FENCE
- - - SKATE PARK EXPANSION
- - - LIMIT OF WORK
- CONCRETE (RE: CIVIL)
- ▾ SEED
- ▒ COBBLE
- ▒ CRUSHER FINES
- ▒ PERENNIALS (SEED MIX)
- ▒ SOD
- ▒ 3"-6" CLEAN COBBLE
- ▒ ENGINEERED WOOD FIBAR
- ▒ BENCH
- ▒ PICNIC TABLE
- ▒ LANDSCAPE BOULDERS
- DECIDUOUS TREES
- ⊕ EVERGREEN TREES
- ⊙ DECIDUOUS SHRUBS



CHECKED BY: MT
 DRAWN BY: AR, LM, EN



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FRISCO PENINSULA
 SITE IMPROVEMENTS
 FRISCO, CO
 DESIGN DEVELOPMENT

OWNER:
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 1 MAIN STREET
 FRISCO, CO
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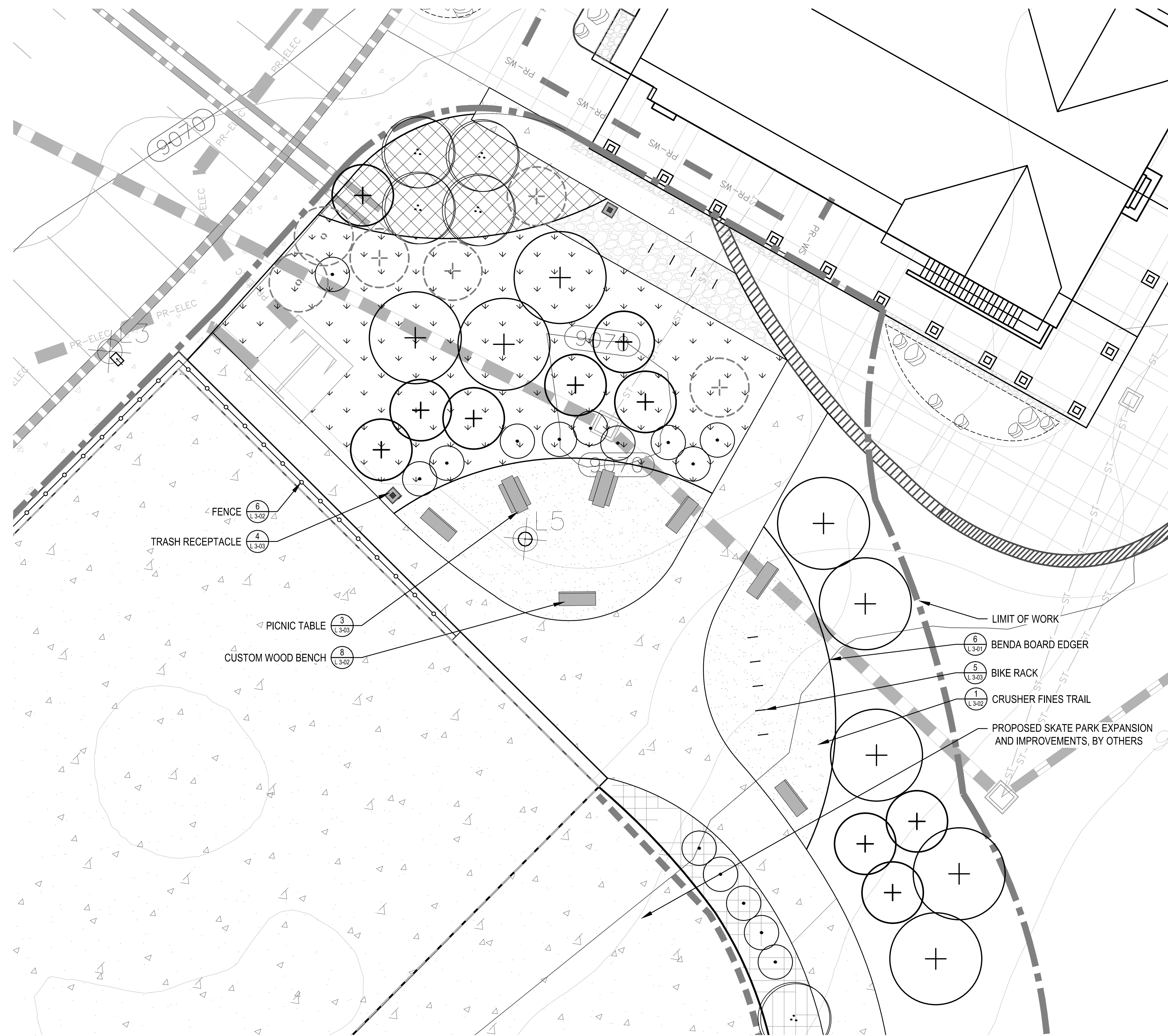
DATE:
 04.27.2018
 DD PRICING SET

SHEET TITLE:
 LANDSCAPE
 ENLARGEMENT

L 2-02

LEGEND

- BENDA BOARD EDGER
- - - SPADE CUT EDGER
- FENCE
- - - SKATE PARK EXPANSION
- - - LIMIT OF WORK
- CONCRETE (RE:CIVIL)
- ▭ SEED
- ▭ COBBLE
- ▭ CRUSHER FINES
- ▭ PERENNIALS (SEED MIX)
- ▭ SOD
- ▭ 3"-6" CLEAN COBBLE
- ▭ ENGINEERED WOOD FIBAR
- ▭ BENCH
- BIKE RACK
- ▭ PICNIC TABLE
- DECIDUOUS TREES
- + EVERGREEN TREES
- DECIDUOUS SHRUBS
- + EXISTING TREES TO REMAIN



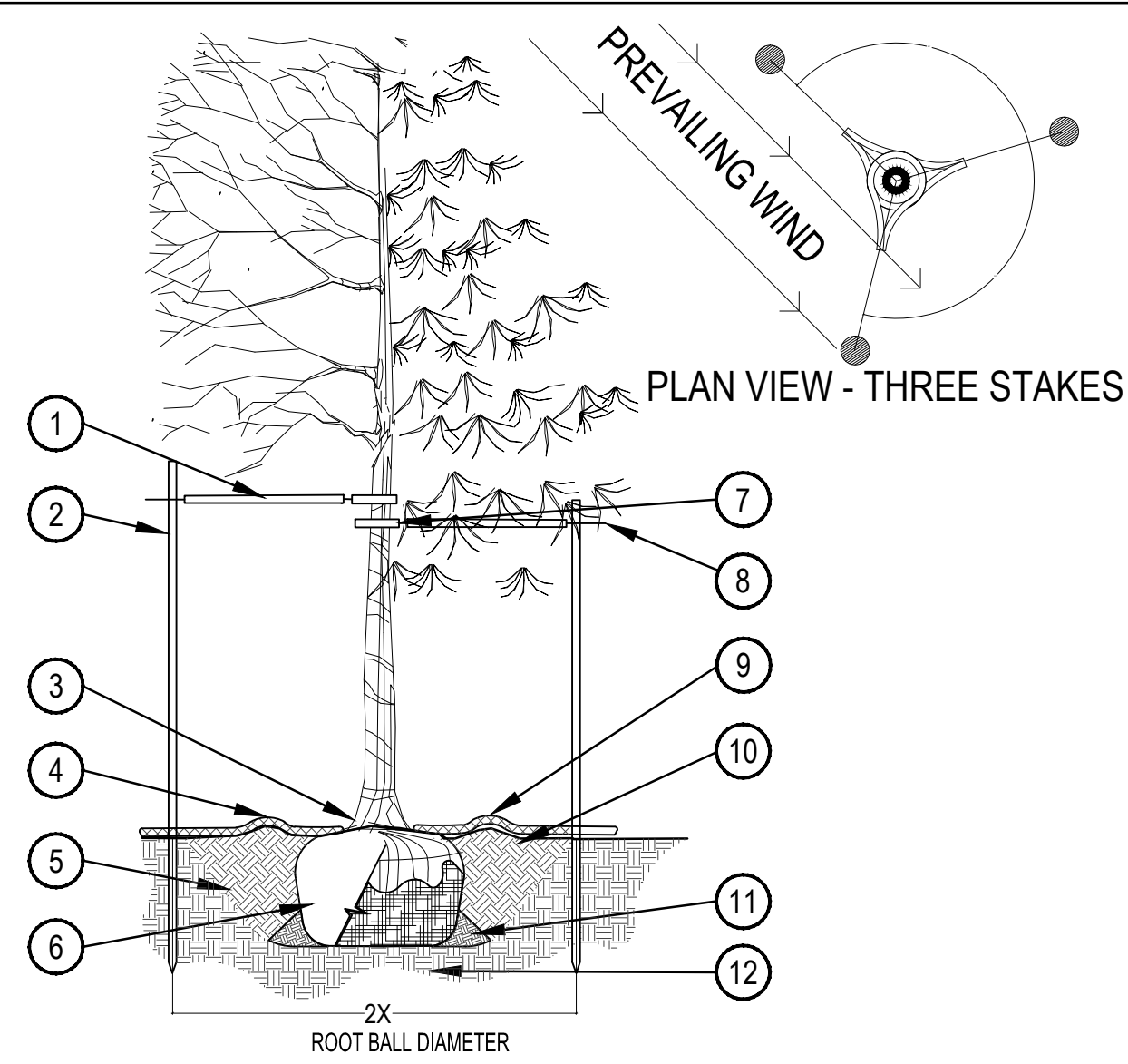
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811
 Know what's below.
 Call before you dig.

NORTH

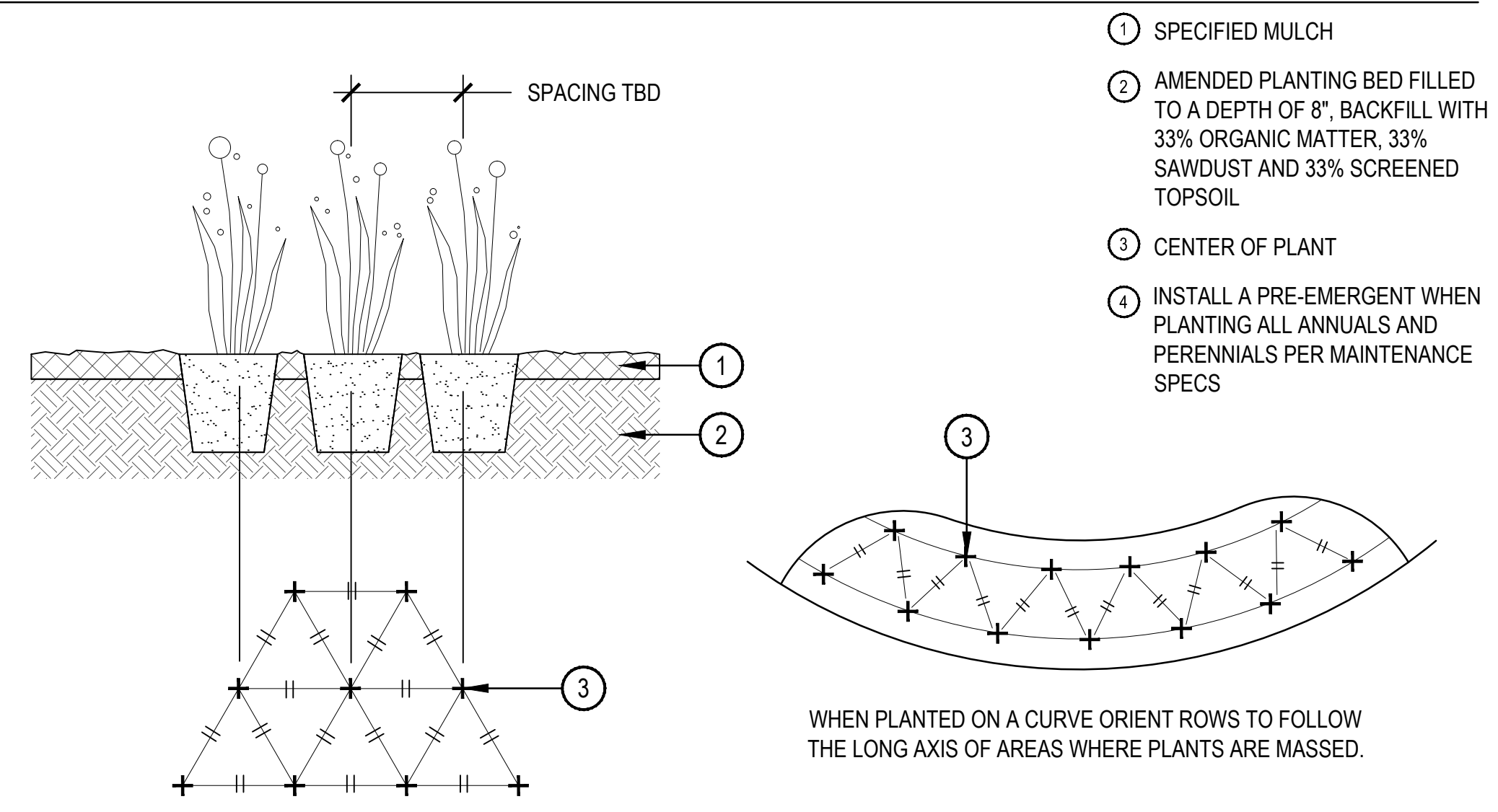
0 5' 10' 20'
 SCALE: 1" = 10'

CHECKED BY: MT
 DRAWN BY: AR, LM, EN



- PRUNING NOTES:**
- ALL PRUNING SHALL COMPLY WITH ANSI A300 STANDARDS. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED. HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
- STAKING NOTES:**
- STAKE TREES PER DIAGRAM. AFTER A MINIMUM OF 3 THREE YEARS CONFIRM TREE IS ESTABLISHED. CHECK FOR ROOTBALL STABILITY. APPLY HAND PRESSURE TO TRUCK OF TREE. WHEN ROOTBALL DOES NOT MOVE, REMOVE STAKING.
 - WIRE OR CABLE SHALL BE MIN. 12 GAUGE, TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP FROM SLIPPING. ALLOW FOR SOME TRUNK MOVEMENT. NYLON STRAPS SHALL BE LONG ENOUGH TO ACCOMMODATE 1-1/2" OF GROWTH AND BUFFER ALL BRANCHES FROM WIRE.
 - ADJUST STAKING, STRAPS AND GUY WIRES ANNUALLY.

- PLACE MIN. 1/2" PVC PIPE AROUND EACH WIRE. EXPOSED WIRE SHALL BE MAX. 2" EACH SIDE
- INSTALL STAKING PER SPECIFICATIONS
- PLANT TREE SO THAT FIRST ORDER MAJOR ROOT IS 1"-2" ABOVE FINAL GRADE
- 3" DEEP MULCH RING PLACED A MINIMUM OF 4 FT. IN DIAMETER ON TOP OF WEED FABRIC. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK (FINISHED GRADE REFERENCES TOP OF MULCH)
- 1:1 SLOPE ON SIDES OF PLANTING HOLE
- REMOVE ALL TWINE, ROPE, BURLAP AND WIRE FROM THE TOP 2/3 OF ROOTBALL
- GROMMETED NYLON STRAPS
- 4-6" HIGH WATER SAUCER IN NON-TURF AREAS
- BACKFILL WITH PLANT MIX. PLANT MIX SHALL CONSIST OF EQUAL PARTS TOPSOIL, COMPOST, AND EXCAVATED SOIL. WATER THOROUGHLY WHEN BACKFILLING
- PLACE SOIL AROUND ROOT BALL FIRMLY. DO NOT COMPACT OR TAMP. SETTLE SOIL WITH WATER TO FILL ALL AIR POCKETS
- PLACE ROOT BALL ON UNDISTURBED SOIL TO PREVENT SETTLEMENT



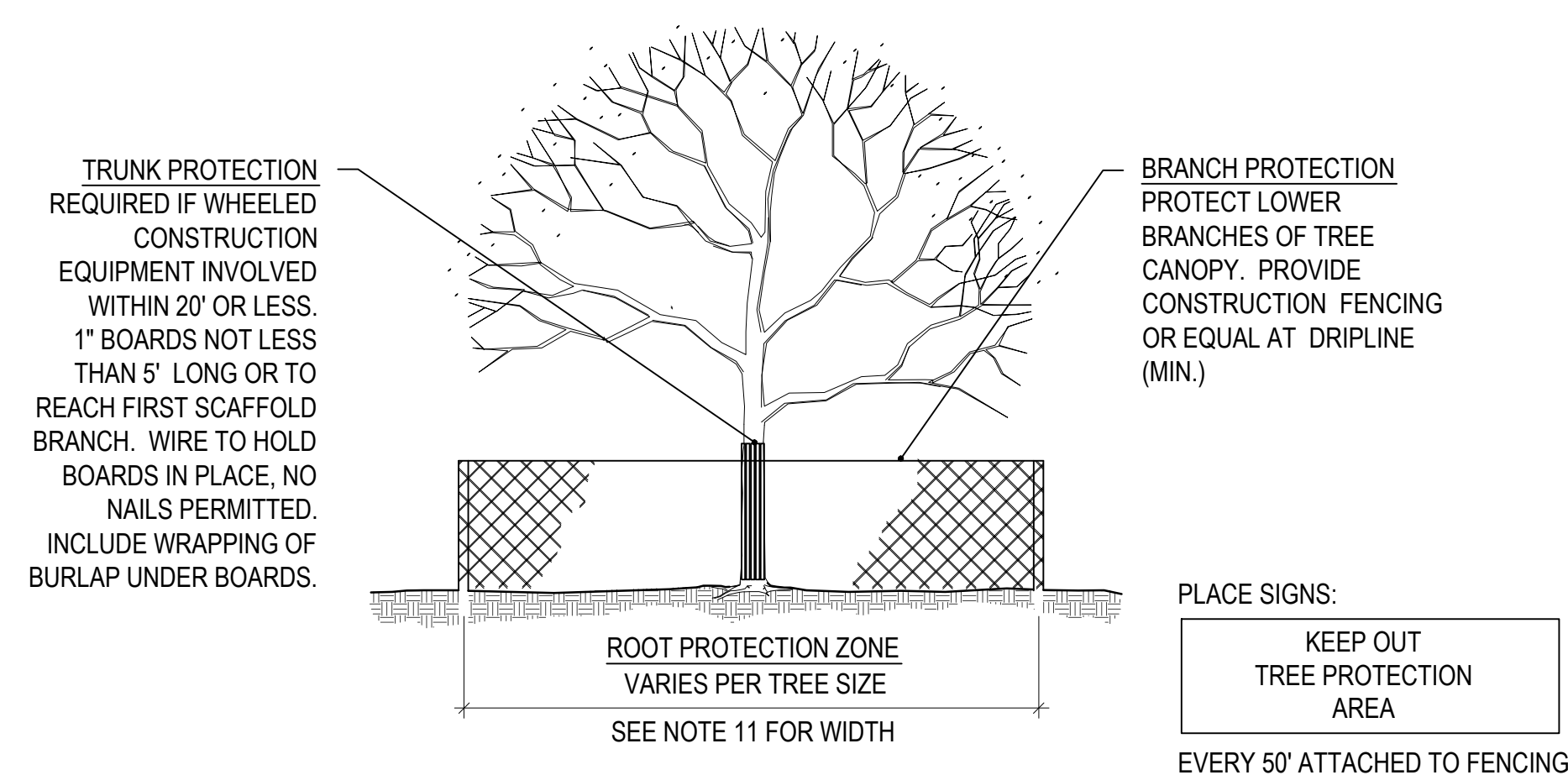
- SPECIFIED MULCH
- AMENDED PLANTING BED FILLED TO A DEPTH OF 8", BACKFILL WITH 33% ORGANIC MATTER, 33% SAWDUST AND 33% SCREENED TOPSOIL
- CENTER OF PLANT
- INSTALL A PRE-EMERGENT WHEN PLANTING ALL ANNUALS AND PERENNIALS PER MAINTENANCE SPECS

1 TREE PLANTING DETAIL

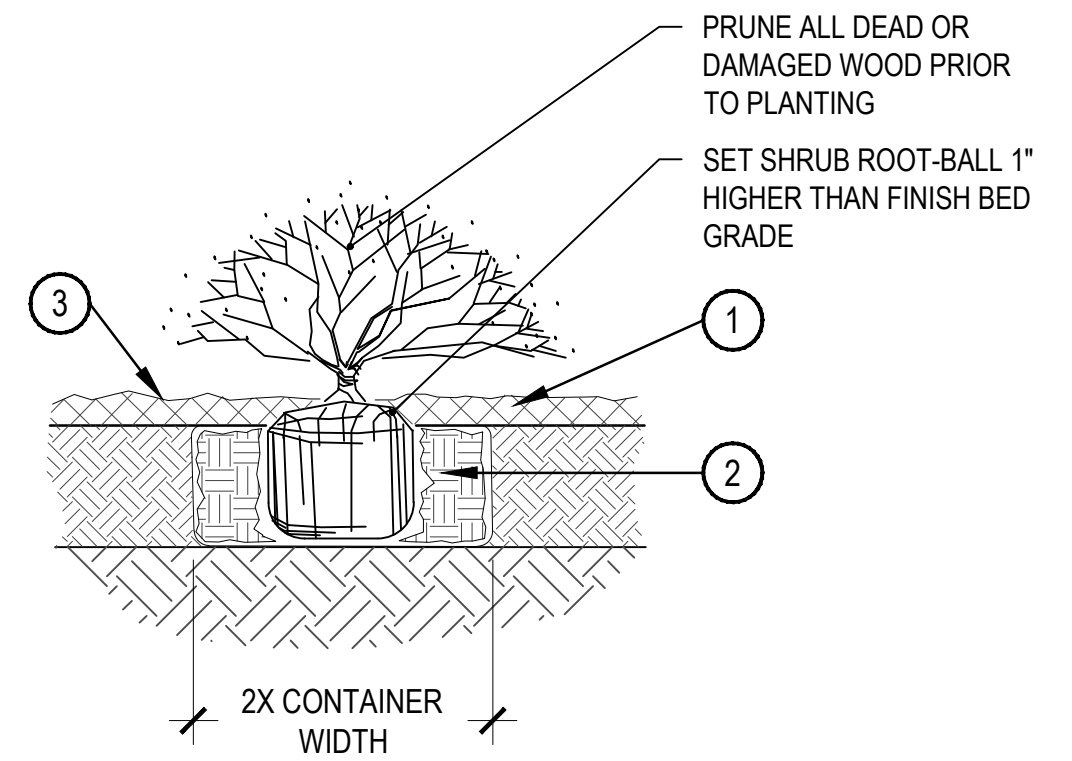
SCALE: 3/16" = 1'-0"

2 PERENNIAL PLANTING

SCALE: 1" = 1'-0"



- NOTES:**
- ALL TREES AND SHRUBS TO BE PROTECTED AND PRESERVED SHALL BE PER DETAIL. GROUPING OF MORE THAN ONE TREE MAY OCCUR.
 - TREES AND SHRUBS TO BE PROTECTED AND PRESERVED SHALL BE IDENTIFIED ON THE TRUNK WITH SURVEY TAPE.
 - TO PREVENT ROOT SMOTHERING, SOIL STOCKPILES, SUPPLIES, EQUIPMENT OR ANY OTHER MATERIAL SHALL NOT BE PLACED OR STORED WITHIN THE DRIP LINE OR WITHIN 15 FEET OF A TREE OR SHRUB TRUNK, WHICHEVER IS GREATER.
 - TREE AND SHRUB ROOTS SHALL NOT BE CUT UNLESS CUTTING IS UNAVOIDABLE.
 - TRENCHES SHALL BE HAND DUG WITHIN THE DRIP LINE IN AREAS WHERE ROOTS TWO INCHES IN DIAMETER AND GREATER ARE PRESENT, OR WHEN IN CLOSE PROXIMITY TO LOW BRANCHING TREES. WHENEVER POSSIBLE, ROOTS TWO INCHES OR GREATER IN DIAMETER SHALL BE TUNNELED OR BORED UNDER AND SHALL BE COVERED TO PREVENT DEHYDRATION.
 - WHEN ROOT CUTTING IS UNAVOIDABLE, A CLEAN SHARP CUT SHALL BE MADE TO AVOID SHREDDING OR SMASHING. ROOT CUTS SHOULD BE MADE BACK TO A LATERAL ROOT. WHENEVER POSSIBLE, ROOTS SHOULD BE CUT BETWEEN LATE FALL AND BUD OPENING, WHEN ROOT ENERGY SUPPLIES ARE HIGH AND CONDITIONS ARE LEAST FAVORABLE FOR DISEASE CAUSING AGENTS. EXPOSED ROOTS SHALL BE COVERED IMMEDIATELY TO PREVENT DEHYDRATION. ROOTS SHALL BE COVERED WITH SOIL OR BURLAP AND KEPT MOIST.
 - WATERING OF PROTECTED TREES IN WHICH ROOTS WERE CUT SHALL BE PROVIDED BY THE CONTRACTOR.
 - AUGER TUNNELING RATHER THAN TRENCHING SHOULD BE USED FOR UTILITY PLACEMENT WITHIN DRIP LINE.
 - FENCING MATERIAL SHALL ENCIRCLE ANY TREE OR SHRUB WHOSE OUTER DRIP LINE EDGE IS WITHIN 20 FEET OF ANY CONSTRUCTION ACTIVITIES.
 - FENCING MATERIAL SHALL BE BRIGHT, CONTRASTING COLOR, DURABLE, AND A MINIMUM OF FOUR FEET IN HEIGHT.
 - FENCING MATERIAL SHALL BE SET AT THE DRIP LINE OR 15 FEET FROM TREE TRUNK, WHICHEVER IS GREATER, AND MAINTAINED IN AN UPRIGHT POSITION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
 - ANY GRADE CHANGES (SUCH AS THE REMOVAL OF TOPSOIL OR ADDITION OF FILL MATERIAL) WITHIN THE DRIP LINE SHOULD BE AVOIDED FOR EXISTING TREES TO REMAIN. RETAINING WALLS AND TREE WELLS ARE ACCEPTABLE ONLY WHEN CONSTRUCTED PRIOR TO GRADE CHANGE.



- SPECIFIED MULCH, REFER TO MATERIAL SCHEDULE: MATERIAL D
- AMENDED SOIL IN PLANTING BED PER SPECIFICATIONS. TILL SOIL TO A DEPTH OF EIGHT INCHES
- FINISH GRADE (TOP OF MULCH)

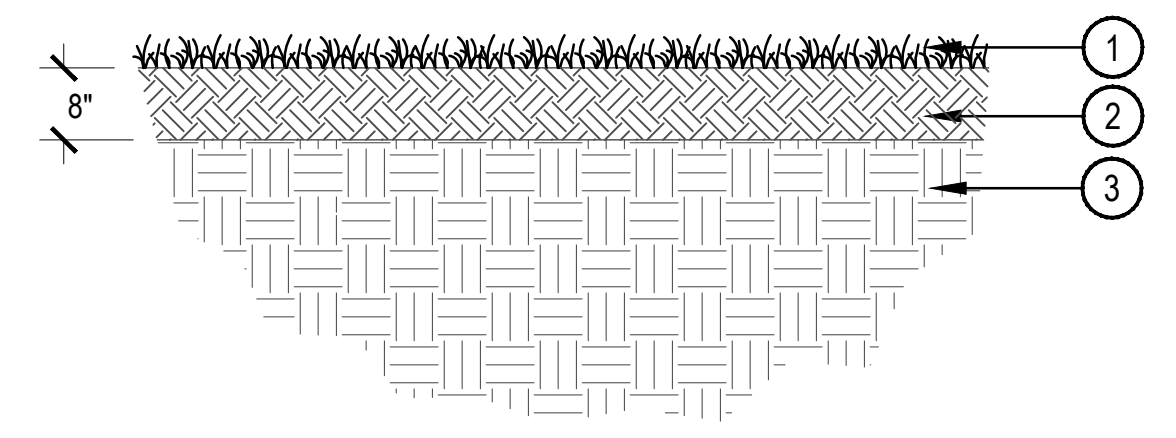
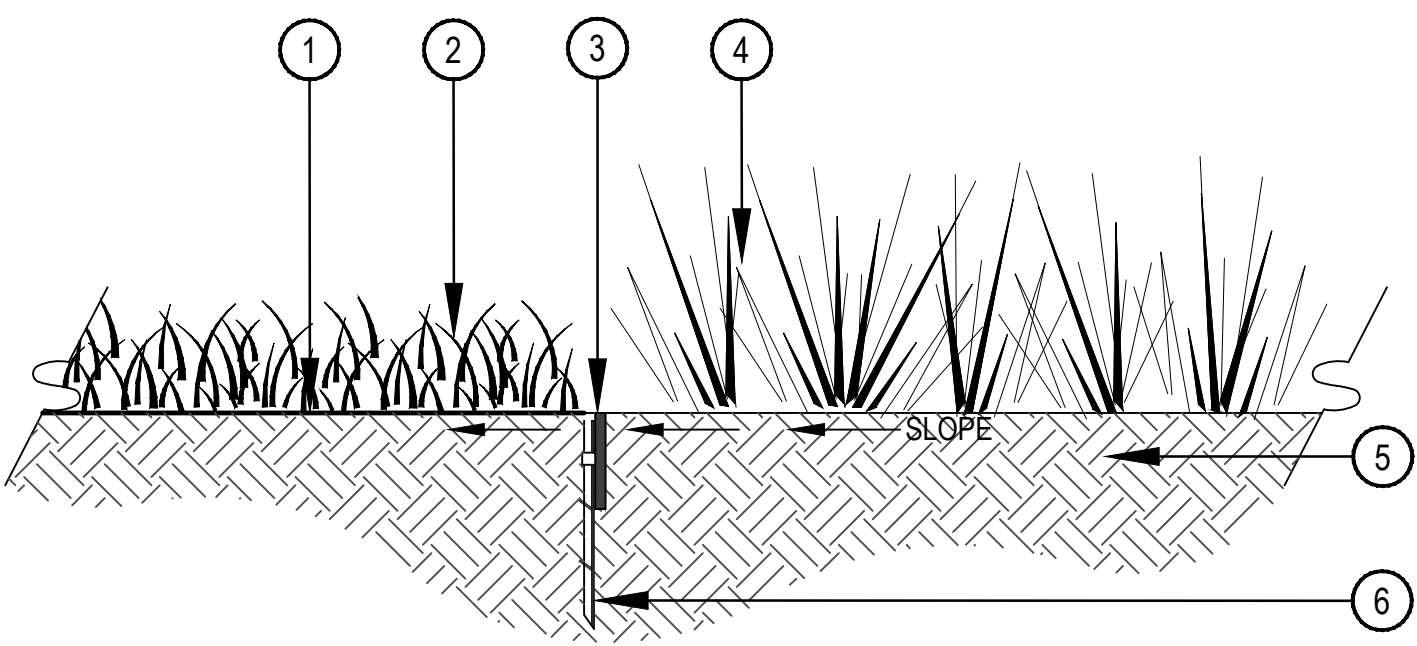
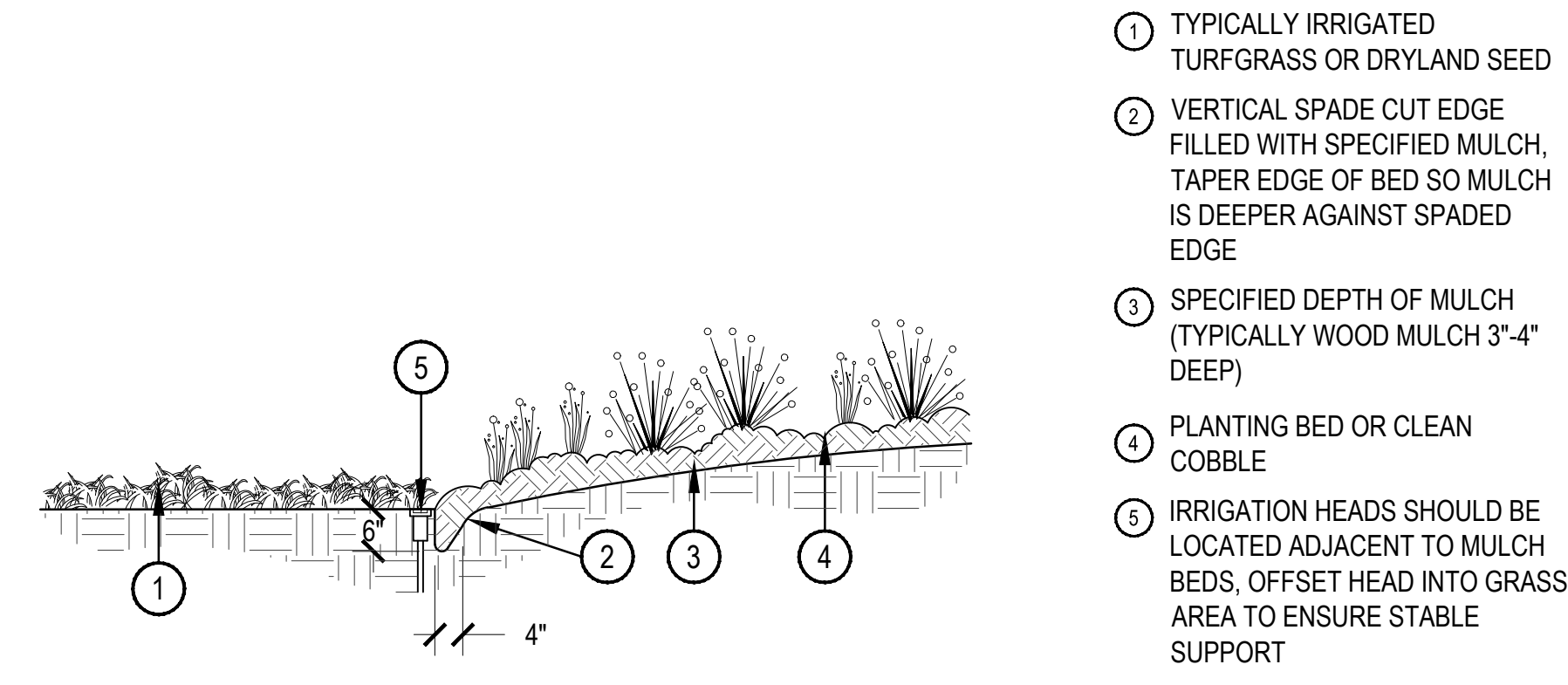
- NOTES:**
- BROKEN OR CRUMBLING ROOT-BALLS WILL BE REJECTED.
 - CARE SHOULD BE TAKEN NOT TO DAMAGE THE SHRUB OR ROOT-BALL WHEN REMOVING IT FROM ITS CONTAINER.
 - ALL JUNIPERS SHOULD BE PLANTED SO THE TOP OF THE ROOT-BALL OCCURS ABOVE THE FINISH GRADE OF THE MULCH LAYER.
 - DIG PLANT PIT TWICE AS WIDE AND HIGH AS THE CONTAINER.

3 TREE AND SHRUB PROTECTION

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

4 SHRUB PLANTING

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



5 SPADE CUT EDGE

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

6 BENDA BOARD EDGER

N.T.S.

7 SOD CROSS SECTION

SCALE: 3/4" = 1'-0"

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FRISCO PENINSULA
 SITE IMPROVEMENTS
 FRISCO, CO
 DESIGN DEVELOPMENT

OWNER:
 TOWN OF FRISCO
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 FRISCO, CO
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 970.668.0677



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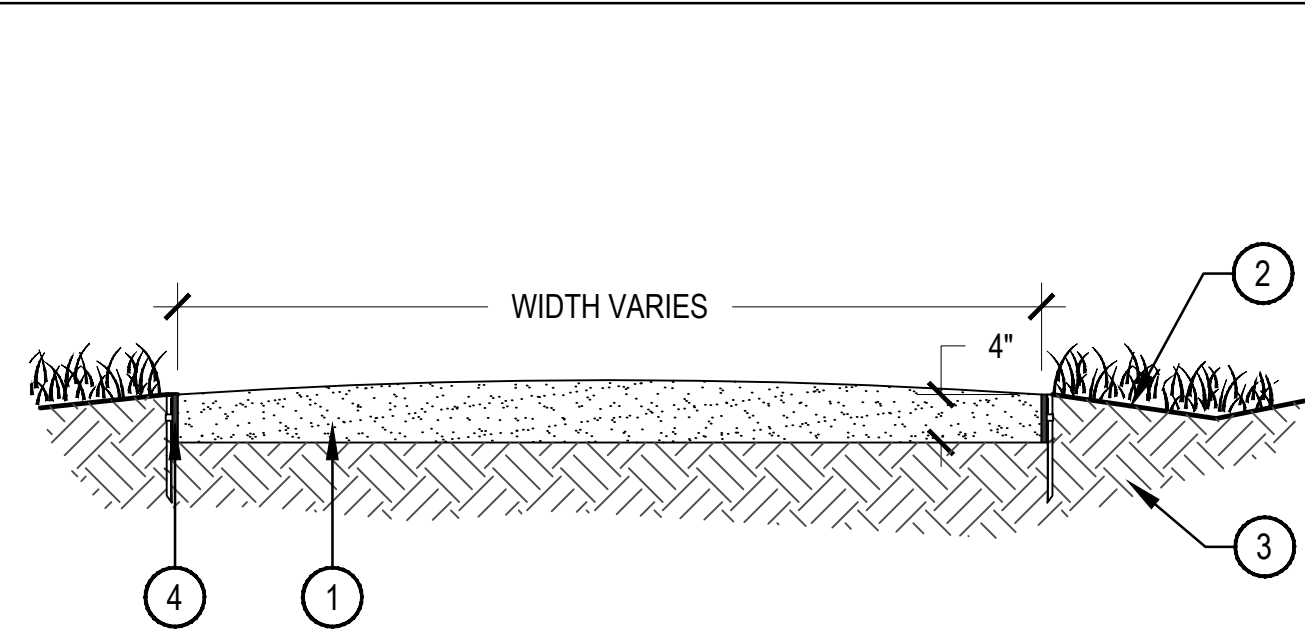
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SHEET TITLE:
 LANDSCAPE
 DETAILS

L 3-01



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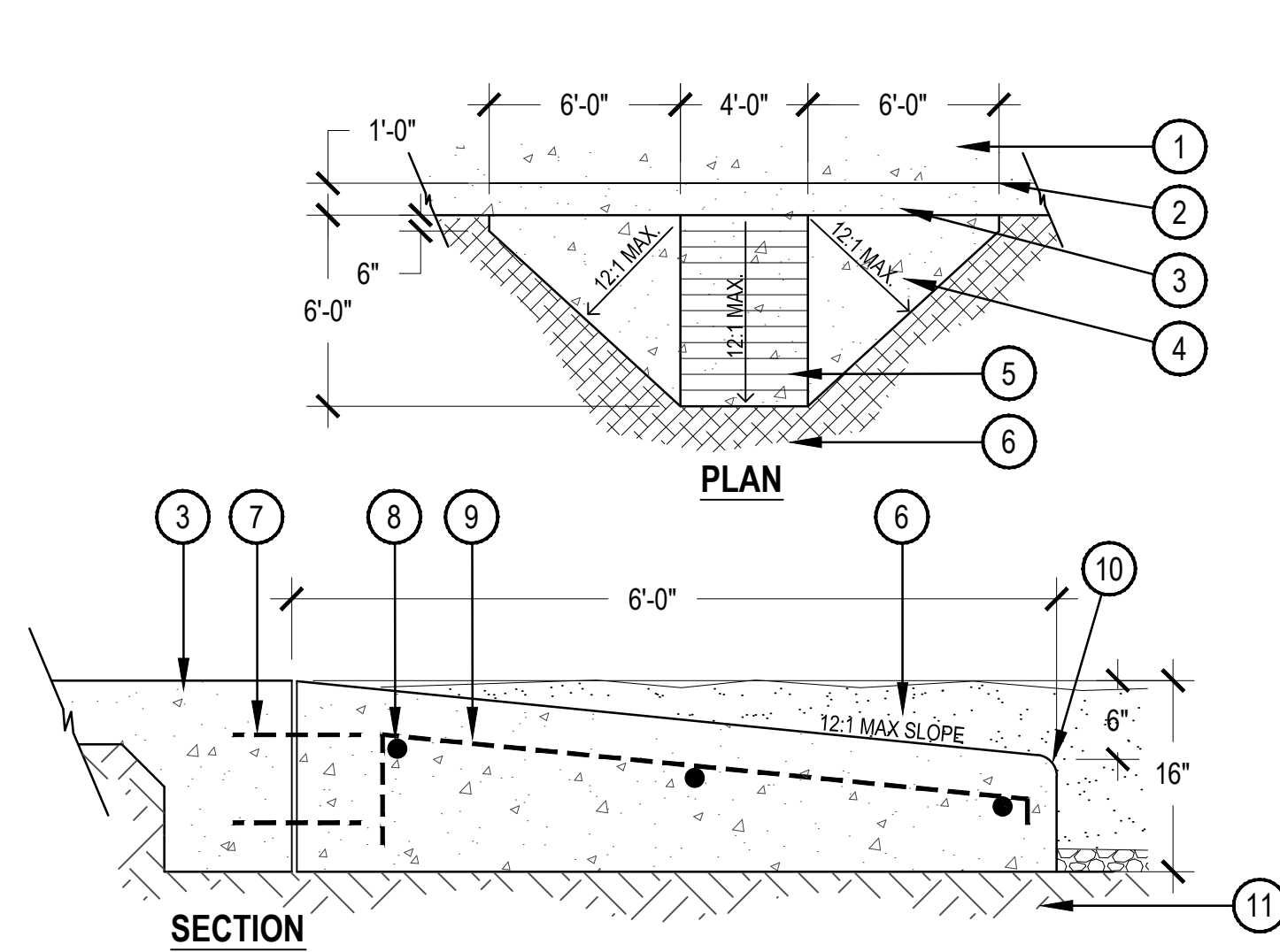
- 1 COMPACTED CRUSHER FINES
- 2 SLOPE ADJACENT GRADE AWAY FROM TRAIL, SWALE IF NECESSARY
- 3 COMPACTED SUBGRADE
- 4 BENDA BOARD EDGER (REFER TO DETAIL 6, SHEET L 3-01)
- 5 SPADE CUT EDGER (REFER TO DETAIL 5, SHEET L 3-01)

COMPACTION NOTES:
 1. COMPACT WET FOR BEST RESULTS.
 2. USE A SMALL (4") RIDING ROLLER TO COMPACT TRAIL.
 3. CROWN TRAIL IN FLAT AREAS (AS SHOWN).
 4. CROSS-SLOPE TRAIL AT 1-2% WITH GRADE WHERE TOPOGRAPHY DICTATES.

REVEGETATION NOTES:
 1. RE-SEED DISTURBED EDGES OF TRAIL UPON COMPLETION OF TRAIL CONSTRUCTION.
 2. FOLLOW SEEDING SPECIFICATIONS AS PROVIDED BY LANDSCAPE ARCHITECT.

1 CRUSHER FINES TRAIL

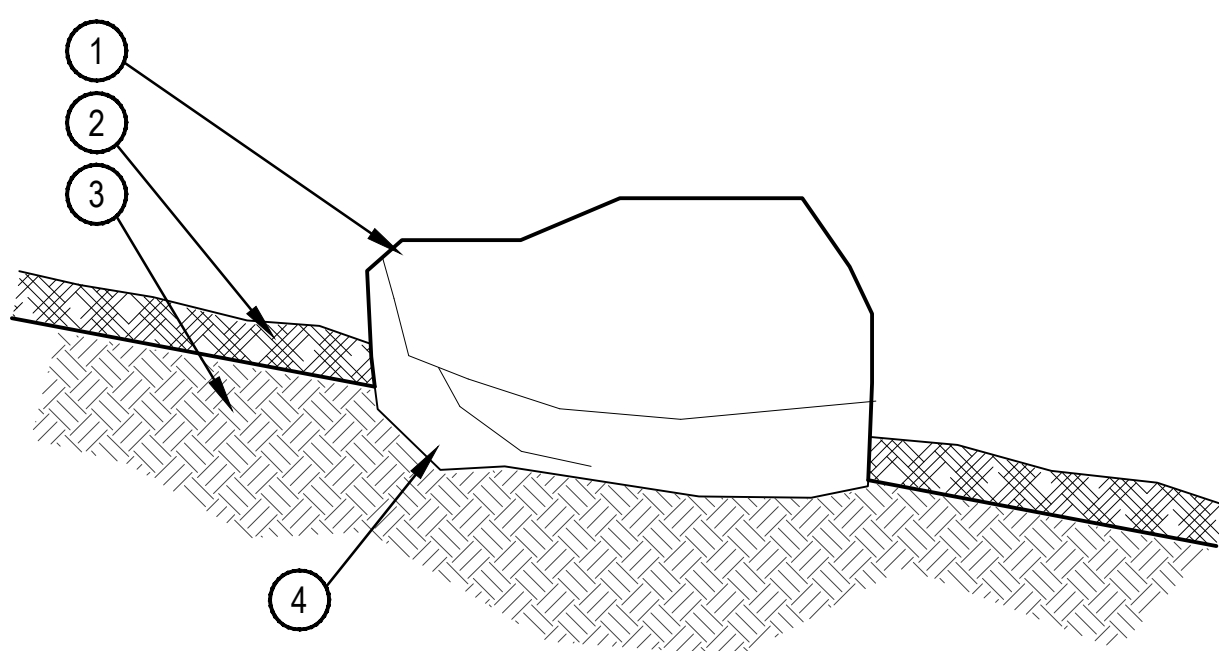
SCALE: 3/4" = 1'-0"



- 1 CONCRETE WALK
- 2 SCORE JOINT
- 3 MONOLITHIC CONCRETE CURB
- 4 CONCRETE RAMP
- 5 TOOLED SCORE JOINTS - 6" APART
- 6 ENGINEERED WOOD FIBER SAFETY SURFACE
- 7 (2) #4 DOWELS 18" O.C.
- 8 (3) #4 REBAR
- 9 #4 REBAR 18" O.C.
- 10 2" RADIUS ON ALL EXPOSED EDGES
- 11 COMPACTED SUBGRADE

4 ADA PLAYGROUND RAMP

N.T.S.



- 1 BROWN MOSS ROCK BOULDERS RELOCATED FROM ON-SITE OR FROM NEARBY QUARRY, BOULDER SHOULD BE SIMILAR TO ROCK FOUND THROUGHOUT SITE. CONTRACTOR SHALL SUBMIT SMALL SAMPLE OR PHOTOS FOR APPROVAL.
- 2 SPECIFIED MULCH OR COBBLE, RE: PLAN
- 3 AMENDED TOPSOIL
- 4 PARTIALLY BURY BOULDER FOR NATURAL APPEARANCE

BOULDER SIZES:
 (15) - 1 TON BOULDERS
 (9) - 1 1/2 TON BOULDERS
 (4) - 2 TON BOULDERS

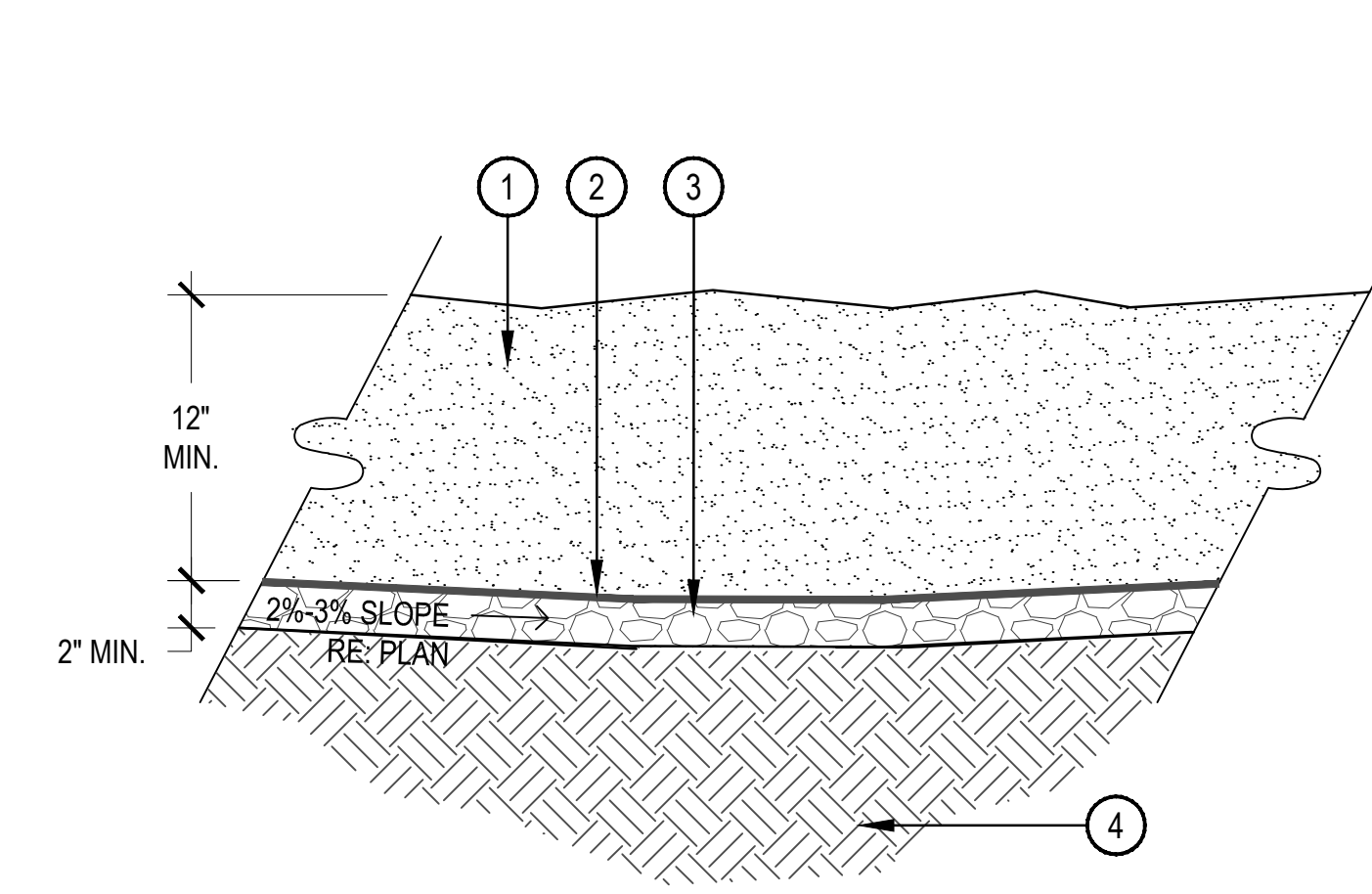
NOTES:
 1. REFER TO PLANS FOR LOCATIONS.
 2. THESE NUMBERS ARE FOR FREE STANDING BOULDERS ONLY. BOULDERS ASSOCIATED WITH THE BOULDER RETAINING WALLS, PARK ENTRY SIGN AND INTERPRETIVE SIGN ARE NOT INCLUDED IN THIS COUNT.

7 LANDSCAPE BOULDER

SCALE: 3/4" = 1'-0"

2 FREE STANDING CONCRETE PLAYGROUND CURB

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

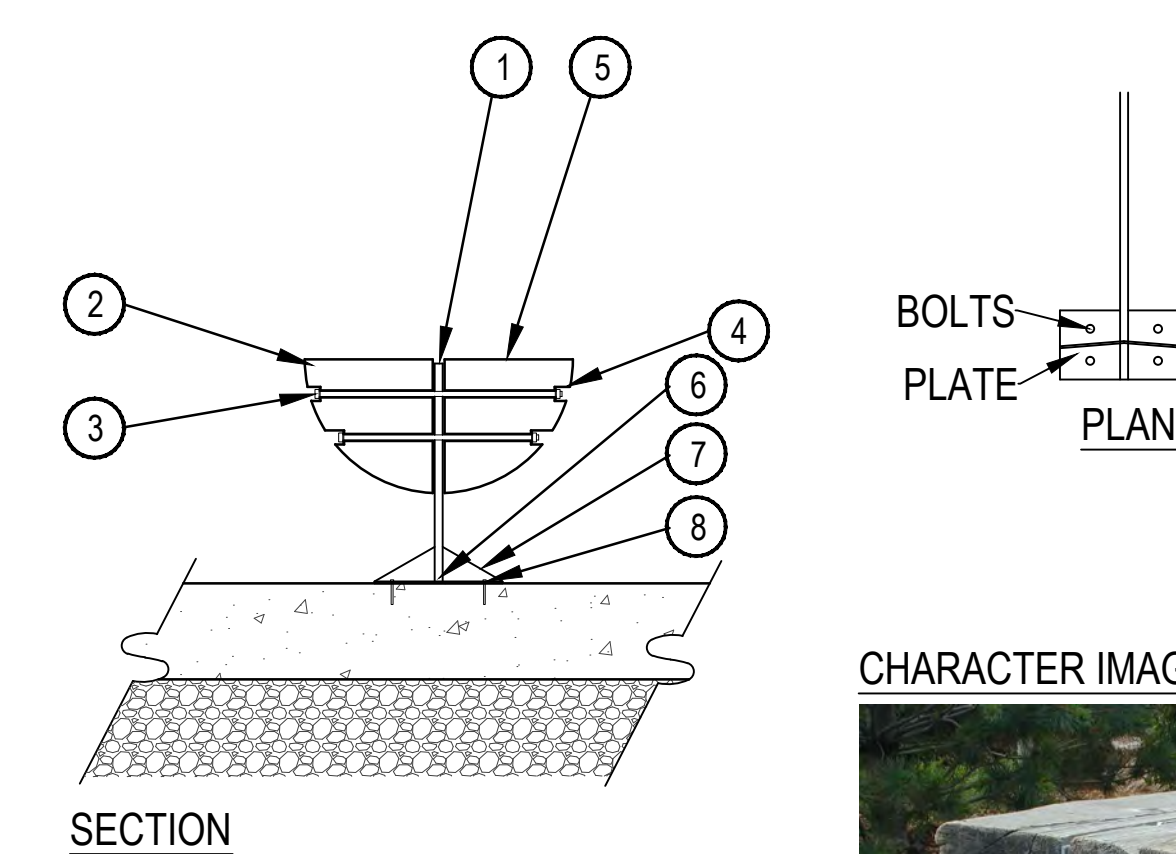


- 1 ENGINEERED WOOD FIBER SAFETY SURFACE TO BE PIONEER PLAYSOFT (SWSPS1), OR APPROVED EQUAL
- 2 GEOTEXTILE FILTER/DRAINAGE MAT
- 3 3/4" WASHED GRAVEL
- 4 COMPACTED SUBGRADE

NOTES:
 1. INSTALL PER MANUFACTURER'S SPECIFICATIONS
 2. CONTRACTOR TO CONFIRM FINAL GRADES PRIOR TO INSTALLING

5 PLAYGROUND SURFACE

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



- 1 1/4" RECESSED STEEL KNIFE PLATE
- 2 ROUGH PINE BEETLE KILL LOG, BARK PEELED, FREE OF PROTRUDING STEMS OR BRANCHES, DRIED
- 3 (4) 5/16" BOLTS APPROXIMATELY EVERY 2'. 3' MAXIMUM SPACING. ALL THREAD OR BOLT ALL THE WAY THROUGH LOGS AND PLATE.
- 4 PRE-DRILL SINK HOLES FOR LAG BOLTS, WASHERS, AND NUTS
- 5 PLANE AND SAND TOP SURFACE. FINISH WITH UV PROTECTION, CLEAR, EXTERIOR GRADE, POLYURETHANE SEALANT
- 6 STEEL PLATE, WELDED JOINT
- 7 STEEL SUPPORT BRACKETS AT END OF BENCH
- 8 (4) 1/2" X 4" LAG BOLTS AT EACH END OF BENCH

NOTES:
 1. FINAL CONSTRUCTION AND SHOP DRAWINGS SHALL BE COMPLETED BY CONSTRUCTION CONTRACTOR.
 2. STEEL SHALL BE POWDER COATED, ANODIZED SILVER OR APPROVED EQUAL.

CHARACTER IMAGE

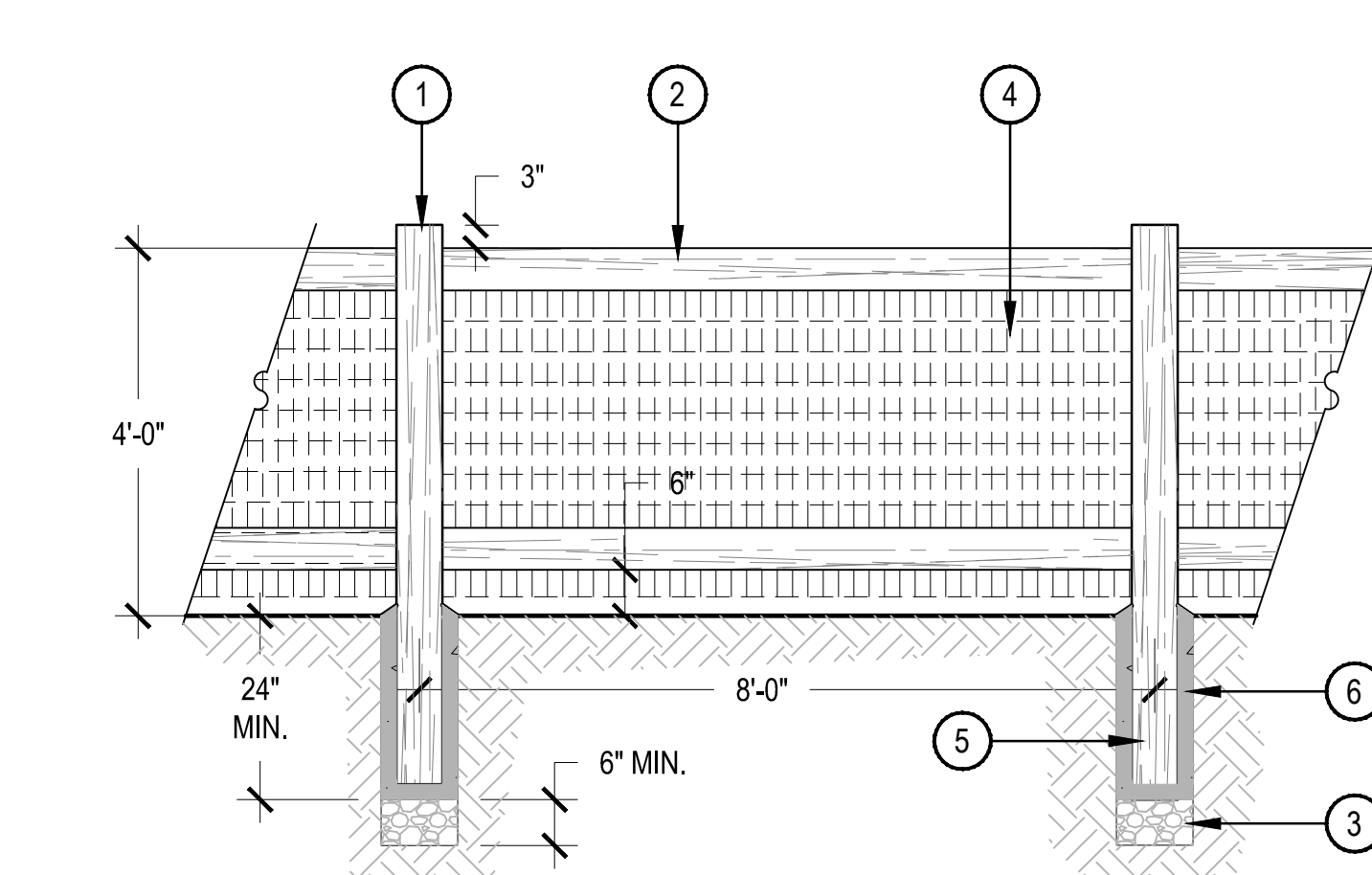


8 CUSTOM WOOD BENCH

SCALE: 1" = 1'-0"

3 MONOLITHIC CONCRETE PLAYGROUND CURB

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



- 1 6" ROUND CEDAR POST
- 2 6" X 2" TREATED TIMBER BEAM
- 3 3/4" WASHED ROCK, CLEAN AGGREGATE DRAINAGE COURSE
- 4 14 GAUGE WELDED WIRE MESH W/ 2"x4" OPENING STAPLED TO POSTS ON BACK-SIDE OF FENCE, TOP OF MESH SHALL BE LEVEL WITH TOP RAIL
- 5 WATERPROOFING BASE OF FENCE POST, WOODLIFE CREOCOAT BLACK BELOW GROUND WOOD PRESERVATIVE; CONTRACTOR TO SUBMIT CUT SHEET FOR APPROVAL
- 6 SET FENCE POST IN 24" DEEP POST HOLES; 10" DIAMETER WIDTH (MIN.); EARTH FORMED CONCRETE FOOTING

NOTES:
 1. DRAWING IS CONCEPTUAL.
 2. INTENTION OF DRAWING IS TO CONVEY MATERIALS, FINISHES, AND PROPORTIONS.

6 FENCE

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

OWNER:
 TOWN OF FRISCO
 1 MAIN STREET
 FRISCO, CO
 970.668.5276
 970.668.0677



DATE:
 04.27.2018
 DD PRICING SET

SHEET TITLE:
 LANDSCAPE
 DETAILS

L 3-02



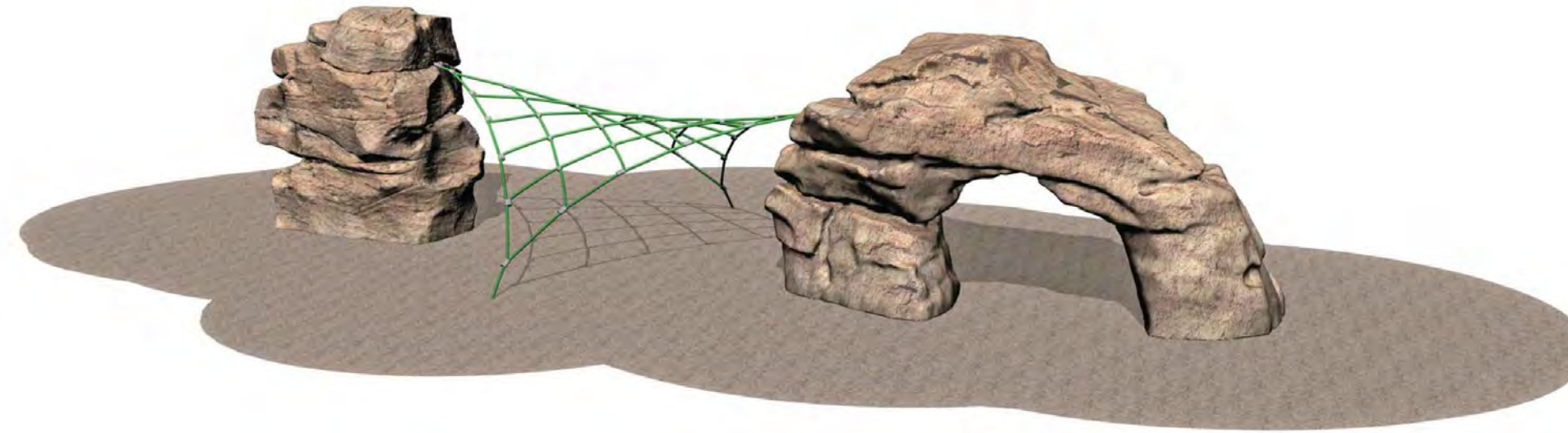
NOT FOR CONSTRUCTION



MODEL: MOAB BOULDER 1_PB010
 MANUFACTURER: ID SCULPTURE
 CONTACT:
 BRANDON SMITH
 A TO Z RECREATION
 303.601.7245
 brandon@atozrecreation.com

1 MOAB BOULDER 1

N.T.S.



MODEL:
 SANDSTONE COMBO_CMB003
 MANUFACTURER: ID SCULPTURE
 CONTACT:
 BRANDON SMITH
 A TO Z RECREATION
 303.601.7245
 brandon@atozrecreation.com

2 SANDSTONE HYPAR COMBO

N.T.S.



MODEL: DOUGLAS FIR 75 SERIES
 TABLE, 75-80D, POWDERCOAT
 TEXTURED SILVER
 MANUFACTURER: DUMOR
 CONTACT:
 ISABEL KEEGAN
 ROCKY MOUNTAIN RECREATION
 303.783.1452
 Isabel@rmrec.com

3 PICNIC TABLE

N.T.S.



MODEL: DOUGLAS FIR
 RECEPTACLE 502, 502-32-BT,
 POWDERCOAT TEXTURED SILVER
 MANUFACTURER: DUMOR
 CONTACT:
 ISABEL KEEGAN
 ROCKY MOUNTAIN RECREATION
 303.783.1452
 Isabel@rmrec.com

4 TRASH RECEPTACLE

N.T.S.



MODEL: BIKE RACK 291 SERIES,
 POWDERCOAT TEXTURED SILVER
 MANUFACTURER: DUMOR
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 ROCKY MOUNTAIN RECREATION
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5 BIKE RACK

N.T.S.

IRRIGATION GENERAL NOTES

- THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE IMPROVEMENTS SHOWN ON THE PLANS.
- THE CONTRACTOR SHALL COORDINATE AS NECESSARY WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR SUCCESSFUL COMPLETION OF THIS WORK.
- THE CONTRACTOR ASSUMES ALL LIABILITY ASSOCIATED WITH THE MODIFICATION OF THE IRRIGATION SYSTEM DESIGN WITHOUT NOTIFYING THE OWNER'S REPRESENTATIVE.
- ALL IRRIGATION EQUIPMENT IS TO BE AS SPECIFIED OR APPROVED EQUAL PER THE DISCRETION OF THE OWNER'S REPRESENTATIVE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT A THOROUGH SITE INSPECTION AND REVIEW OF THE PROJECT CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: LANDSCAPE PLAN, UTILITY PLAN, CIVIL PLAN, GRADING AND DRAINAGE PLAN AND ALL OTHER ASSOCIATED PLANS THAT AFFECT THIS WORK PRIOR TO BEGINNING CONSTRUCTION. IF THE CONTRACTOR OBSERVES ANY DISCREPANCIES AMONG THE CONSTRUCTION DOCUMENTS AND THE EXISTING CONDITIONS ON SITE, IT IS THEIR RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- THE CONTRACTOR SHALL CONFORM TO ALL LOCAL AND STATE REGULATIONS AND INSTALL THE IRRIGATION SYSTEM AND ITS COMPONENTS PER THE MANUFACTURER'S SPECIFICATIONS. THE CONTRACTOR SHALL OBTAIN AND PROVIDE PAYMENT FOR ALL PERMITS REQUIRED BY ANY LOCAL AND STATE AGENCIES AND UTILITY COMPANIES HAVING JURISDICTION OVER THIS SITE.
- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND PAYING FOR TESTING OF THE BACKFLOW PREVENTER BY A STATE CERTIFIED INSPECTOR. CONTRACTOR SHALL PROVIDE CERTIFICATES TO OWNER'S REPRESENTATIVE.
- THE CONTRACTOR MUST VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. IF THE CONTRACTOR FAILS TO DO SO AND DAMAGES ANY UNDERGROUND UTILITIES THROUGH THE COURSE OF HIS WORK THE IRRIGATION CONTRACTOR SHALL PAY FOR ANY REPAIR WORK ASSOCIATED WITH SAID DAMAGES.
- IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN LANDSCAPE AREAS AND WITHIN THE PROJECT LIMITS. EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN FOR GRAPHIC CLARITY ONLY. IF THERE IS A QUESTION REGARDING THE LOCATION OF ANY COMPONENT OF THE IRRIGATION SYSTEM, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE. IF THE CONTRACTOR NEGLECTS TO NOTIFY THE NECESSARY PARTIES, THE CONTRACTOR SHALL PAY FOR ANY REPLACEMENT OR MODIFICATION TO INSURE PROPER LOCATION AND OPERATION OF THE IRRIGATION SYSTEM AND ITS COMPONENTS.
- ALL IRRIGATION DISTRIBUTION LINES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO, MAINLINE, LATERALS, SPRAY HEADS, ROTORS, ROTARY SPRAYS, DRIP EMITTERS SHALL BE KEPT A MINIMUM DISTANCE OF 6' AWAY FROM ALL BUILDING AND WALL FOUNDATIONS, OR AS STIPULATED IN THE GEOTECHNICAL REPORT, WHICHEVER IS GREATER.
- ALL VALVE BOXES AND LIDS SHALL BE PLASTIC WITH BOLT LOCKING COVERS. CONTRACTOR SHALL PROVIDE AND INSTALL BOLT LOCKING KIT. LID COLOR TO BE GREEN. INSTALL PER THE CONSTRUCTION DETAILS. DO NOT INSTALL IN PAVED AREAS.
- ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 1'-0" FROM THE EDGE OF PAVED SURFACES AND 3'-0" FROM THE CENTERLINE OF DRAINAGE SWALES OR RETENTION BASINS. THE CONTRACTOR SHALL ADJUST ALL VALVE BOXES TO BE FLUSH FINISH GRADE. CONTRACTOR TO BRAND VALVE ID NUMBER ON ALL LIDS.
- GROUNDING FOR THE IRRIGATION CONTROLLER IS TO BE INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS AND PER THE AMERICAN SOCIETY OF IRRIGATION CONSULTANTS GUIDELINE 100-2002 FOR EARTH GROUNDING ELECTRONIC EQUIPMENT IN IRRIGATION SYSTEMS FOUND AT www.asic.org/Design_Guides.aspx. FOR TECHNICAL SUPPORT REGARDING THE IRRIGATION CONTROLLER OR GROUNDING PLEASE CONTACT IRRITROL TECHNICAL SERVICES AT (800) 634-8873.
- THE TWO WIRE DECODER CONTROLLER REQUIRES EACH STATION/CONTROL VALVE AND SENSOR TO HAVE AN FD DECODER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE PROPER NUMBER OF DECODERS PER VALVE MANIFOLD. **SURGE SUPPRESSION AND GROUNDING SHALL BE EVERY 500' OR PER EVER 8 DECODERS.** THE RAIN/FREEZE SENSOR REQUIRES THE SD-210TURF DECODER

QTY. OF STATIONS (VALVES) PER MANIFOLD	REQUIRED FD DECODER
1 STATION	FD-101TURF
1 OR 2 STATIONS SIMULTANEOUSLY	FD-201TURF
1 TO 4 STATIONS SIMULTANEOUSLY	FD-202TURF
1 TO 4 STATIONS W/INDIVIDUAL CONTROL	FD-401TURF
SENSORS	SD-210TURF
SURGE SUPPRESSION	LSP1TURF
- CONTRACTOR SHALL PULL AND STORE 30' MIN. OF WIRE INTO EACH VALVE BOX. CONTRACTOR SHALL EXTEND SPARE DECODER WIRES AT THE END OF ALL MAINLINE BRANCHES OR TWO-WIRE PATH BRANCHES SERVING THAT CONTROLLER. COIL 30' LENGTH MIN. OF SPARE WIRES IN A 10" ROUND VALVE BOX.
- CONTROLLER WIRE SHALL BE 14GA MIN. UL APPROVED WIRE, COLOR CODED PER VALVE, TAPED AND BUNDLED EVERY 10'. CONTRACTOR SHALL USE UL APPROVED WIRE STRIPPER AND WATERPROOF CONNECTIONS AT ALL SPLICES AND CONNECTIONS POINTS.
- CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL PRESSURE MAINLINE TRENCHES. SEE IRRIGATION DETAILS FOR MORE INFORMATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ADEQUATE VERTICAL SEPARATION BETWEEN ALL IRRIGATION DISTRIBUTION LINES AND ALL UTILITIES (EXISTING OR PROPOSED), CONDUIT, STORM WATER COMPONENTS, DRAINS, ETC.
- PLANT MATERIAL LOCATIONS TAKE PRECEDENCE OVER IRRIGATION LINES. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL INCLUDING PERENNIAL BEDS.
- THE CONTRACTOR SHALL STAKE THE LOCATION OF THE MAINLINE, DRIP IRRIGATION LINES, CONTROL VALVES, GATE VALVES, ETC. AND SCHEDULE A REVIEW WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- LAYOUT DRIP LATERALS PARALLEL TO TOPOGRAPHY WHEREVER POSSIBLE. STAKE 3/4" DRIP TUBING IN PLACE AT 12" DEPTH AND BURY. INSTALL HOSE END FLUSHABLE TYPE END CAP AT ENDS OF ALL 3/4" POLYETHYLENE DRIP TUBING AND FLUSH THOROUGHLY BEFORE INSTALLING EMITTERS.
- TREES SHALL BE IRRIGATED BY ROOT ZONE WATERING BUBBLERS, SEE EMITTER SCHEDULE FOR ADDITIONAL INFORMATION.
- SHRUBS, GROUNDCOVER AND PERENNIALS SHALL BE IRRIGATED BY PRESSURE REGULATING SINGLE OUTLET EMITTERS, SEE EMITTER SCHEDULE FOR ADDITIONAL INFORMATION.
- CONTRACTOR SHALL FINE TUNE AND ADJUST NOZZLE DIRECTION AND RADIUS TO REDUCE OVERSPRAY ONTO PAVING OR HARD SURFACES.
- CONTRACTOR SHALL INSTALL A QUICK COUPLER IN 10" VALVE BOX AT THE END OF ALL BRANCHES OF THE MAINLINE, OR AS SHOWN ON PLANS, FOR WINTERIZATION AND FLUSHING OF MAINLINE.
- ESTABLISHMENT WATERING WILL REQUIRE UP TO TWICE AS MUCH IRRIGATION FOR A 21 DAY PERIOD. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 30-YEAR AVERAGE WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS ABOVE AND BELOW THE AVERAGE VALUES UTILIZED.
 - FESCUE/BLUEGRASS BLEND TURF 1.75" PER WEEK PEAK SEASON
 - NATIVE SEED 1.00" PER WEEK (FOR ESTABLISHMENT)
- THE CONTRACTOR SHALL PROVIDE A SEASONAL MAINTENANCE SCHEDULE WHICH SHALL BEGIN ON JUNE 1 AND END ON SEPTEMBER 1 TO INSURE THE EFFICIENCY AND LONGEVITY OF THE IRRIGATION SYSTEM. THE MAINTENANCE SCHEDULE SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING LIST OF BEST MANAGEMENT PRACTICES:
 - CHECK HEADS FOR COVERAGE AND LEAKAGE.
 - CHECK CONTROLLER PROGRAMMING AND ADJUST FOR SEASONAL CHANGES AS NECESSARY.
 - VERIFY THAT THE WATER SUPPLY AND PRESSURE ARE AS STATED IN THE DESIGN.
 - CERTIFY THE BACKFLOW PREVENTION DEVICE AND SUBMIT TEST RESULTS TO THE PROPERTY MANAGER.
 - PERIODICALLY VERIFY THE THE SENSORS IN THE IRRIGATION SYSTEM ARE OPERATING CORRECTLY.
 - WINTERIZATION AND SPRING START UP PROCEDURES

IRRIGATION POINT OF CONNECTION NOTES:

- POINT OF CONNECTION:

TOWN OF FRISCO IS RESPONSIBLE FOR PROVIDING WATER SERVICE TO THE APPROXIMATE LOCATION SHOWN ON THE PLANS NEAR THE INTERMEDIATE PUMP TRACK. CONTRACTOR TO COORDINATE WITH TOWN OF FRISCO FOR IRRIGATION CONNECTION INCLUDING SIZE, TYPE OF PIPE AND FINAL LOCATION PRIOR TO THE START OF WORK.

 - CONNECT TO THE SERVICE LINE (PROVIDED BY OTHERS) WITH 1-1/2" TYPE K COPPER PIPE AT A DEPTH OF 48" OR PER LOCAL CODE, WHICHEVER IS GREATER, TO THE 1-1/2" BACKFLOW PREVENTER. INSTALL ONE MANUAL DRAIN VALVE, ONE 1-1/2" FEBCO 825Y BACKFLOW PREVENTER IN A HOTBOX ENCLOSURE WITH FROST BLANKET. EXTEND 1-1/2" TYPE K COPPER PIPE A MINIMUM 30" BEYOND ENCLOSURE TO ONE 1" QUICK COUPLER VALVE, TRANSITION TO AND EXTEND 1-1/2" CL200 PVC MAINLINE TO MASTER VALVE AND CONTROL VALVES AS SHOWN.
 - CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR FOR THE CONNECTION OF THE HEATED HOTBOX ENCLOSURE.
 - THE CONTRACTOR SHALL CONFORM TO ALL LOCAL CODES, OBTAIN AND PROVIDE PAYMENT FOR ALL PERMITS ASSOCIATED WITH THIS WORK.
- CONTROLLER LOCATION: CONTROLLER SHALL BE PEDESTAL MOUNTED IN APPROXIMATE LOCATION INDICATED ON PLANS. THE CONTRACTOR SHALL PROVIDE NECESSARY CONDUIT AND SLEEVING FOR ALL CONTROL WIRE. ALL EQUIPMENT INSTALLATION SHALL CONFORM TO ALL LOCAL CODES. CONTRACTOR SHALL COORDINATE FINAL LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- SENSOR LOCATION: POLE MOUNT THE RAIN/FREEZE SENSOR NEAR THE CONTROLLER. SENSOR SHALL BE MOUNTED IN LOCATION IN FULL SUN, OPEN TO RAINFALL AND AWAY FROM HEAT SOURCES. SENSOR SHALL BE LOCATED NO MORE THAN 500' (LINE OF SIGHT) FROM THE CONTROLLER. MOUNT THE RECEIVER ADJACENT TO OR ON THE SIDE OF THE CONTROLLER PRIOR TO SENSOR INSTALLATION.
- SYSTEM PRESSURE: **THE SYSTEM HAS BEEN DESIGNED FOR A REQUIRED MINIMUM STATIC PRESSURE OF 70 PSI. MAXIMUM SAFE FLOW OF 35 GPM.** THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PRESSURE IN THE FIELD AT THE POINT OF CONNECTION AND MAXIMUM DEMAND OF ANY VALVE OR PROGRAM BEFORE CONSTRUCTION BEGINS AND FOR NOTIFYING THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE DESIGN PRESSURE OF THE SYSTEM AND THE MEASURED PRESSURE IN THE FIELD. IF THE CONTRACTOR FAILS TO NOTIFY OWNER'S REPRESENTATIVE OF SUCH DISCREPANCIES, THEN THE CONTRACTOR ASSUMES ALL LIABILITY AND COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS TO ACCOMMODATE THE ACTUAL PRESSURE.

SLEEVING COORDINATION NOTES:

- INSTALLATION OF IRRIGATION SLEEVING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.** SLEEVES SHALL BE INSTALLED PRIOR TO THE START OF PAVING OPERATIONS. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR FOR LOCATION AND SIZING OF SLEEVES PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL SLEEVE ALL IRRIGATION DISTRIBUTION LINES, VALVE CONTROL WIRES AND COMMUNICATION WIRES UNDER ALL PAVED SURFACES, WALL FOOTERS, DRAINAGE CHANNELS, INLETS, CATCH BASINS, ETC.
- ALL SLEEVES SHALL EXTEND A MINIMUM OF 1 FOOT BEYOND EDGE OF ALL OBSTRUCTIONS. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER ANY OBSTRUCTIONS.
- MARK ALL CURBS OR PAVING WITH AN 'X' AT ALL SLEEVE LOCATIONS.
- SLEEVING SHALL BE INSTALLED PER THE SIZES AND QUANTITIES SHOWN ON THE PLANS BASED ON THE CHART BELOW. ALL MAINLINE, VALVE CONTROL AND COMMUNICATION WIRE, LATERALS AND 3/4" POLYETHYLENE DRIP TUBING UNDER PAVED SURFACES ARE TO BE INSTALLED IN SEPARATE SLEEVING.

SLEEVED PIPE SIZE/WIRE QTY.	REQUIRED SLEEVE SIZE AND QTY.
3/4"-1" PIPING	4" PVC (1)
1-1/2" - 2" PIPING	4" PVC (1)
1-50 CONTROL WIRES	4" PVC (1)

IRRIGATION SCHEDULE

SYMBOL	DESCRIPTION	MFR	MODEL NO.	COMMENTS	DETAIL
	POINT OF CONNECTION	NA	1-1/2" IRRIGATION SERVICE LINE (PROVIDED BY OTHERS)	REFER TO CIVIL SITE AND UTILITY PLANS	
	IRRIGATION CONTROLLER	IRRITROL	RAIN MASTER EAGLE (TW-EG36-SPED)	PEDESTAL MOUNT X VALVES	
NOT SHOWN	TWO-WIRE VALVE DECODERS	RAIN BIRD	TWO-WIRE DECODER (FD-TURF) LINE SURGE PROTECTION (LSP-01)	SEE IRRIGATION NOTES 13 & 14 FOR GROUNDING	
	SENSOR	IRRITROL	WIRELESS RAIN/FREEZE SENSOR (RFS1000)		
	BACKFLOW PREVENTER	FEBCO	1-1/2" REDUCED PRESSURE BACKFLOW PREVENTER (825Y) WYE STRAINER	IN HOT BOX SECURITY ENCLOSURE ON CONCRETE PAD	
NOT SHOWN	SECURITY ENCLOSURE	HOT BOX	ENCLOSURE (HB. 75) 11"W x 22"H x 19"L	28" x 20" x 4" CONCRETE BASE	
	MANUAL DRAIN VALVE	WATTS	CARSON ROUND VALVE BOX (910) BRONZE GATE VALVE (WGV-X)	SIZE PER LINE	
	GATE VALVE	WATTS	CARSON ROUND VALVE BOX (910) BRONZE GATE VALVE (WGV-X)	SIZE PER LINE	
	QUICK COUPLER	RAIN BIRD	CARSON ROUND VALVE BOX (910) 1" COUPLER (LRC-44)		
	VALVE ASSEMBLY TURF	RAIN BIRD	CARSON JUMBO VALVE BOX (1220) SCH. 80 PVC BALL VALVE CONTROL VALVE (100/150-PESB)		
	VALVE ASSEMBLY DRIP	RAIN BIRD	CARSON JUMBO VALVE BOX (1220) 1" SCH. 80 PVC BALL VALVE 1" CONTROL VALVE (100-PESB) 3/4" PRESSURE REGULATING FILTER (PRF-075) (30 PSI)		
	TURF ROTARY	RAIN BIRD	TURF ROTARY (RVAN 14/18/1724 1804-SAM-P45) FIXED TURF ROTARY (R-1318/1724 1804-SAM-P45) 8'-24" HAND ADJUSTABLE AND FIXED ROTARY STREAM 1804 POP UP TURF SPRAY BODY, SEAL-A-MATIC CHECK VALVE W/ 45 PSI PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	0.6" MATCHED PRECIPITATION RATE @ 45 PSI	
	NATIVE SEED ROTARY	RAIN BIRD	SEED ROTARY (RVAN 14/18/1724 1812-SAM-P45) FIXED SEED ROTARY (R-1318/1724 1812-SAM-P45) 8'-24" HAND ADJUSTABLE AND FIXED ROTARY STREAM 1812 POP UP TURF SPRAY BODY, SEAL-A-MATIC CHECK VALVE W/ 45 PSI PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.	0.6" MATCHED PRECIPITATION RATE @ 45 PSI	
	SLEEVING	NA	SCHEDULE 40 PVC PIPE	SEE SLEEVING NOTES	
	PVC MAINLINE	NA	1-1/2" CLASS 200 BE PVC PIPE ALL MAINLINE TO HAVE TRACER WIRE AND TAPE		
	PVC TURF LATERAL	NA	3/4" CLASS 200 PVC PIPE	UNLESS OTHERWISE NOTED ON PLAN	
	DRIP LATERAL	NA	3/4" POLYETHYLENE TUBING		
	FLUSH END CAP	NA	CARSON ROUND VALVE BOX (910) FLUSH END CAP		

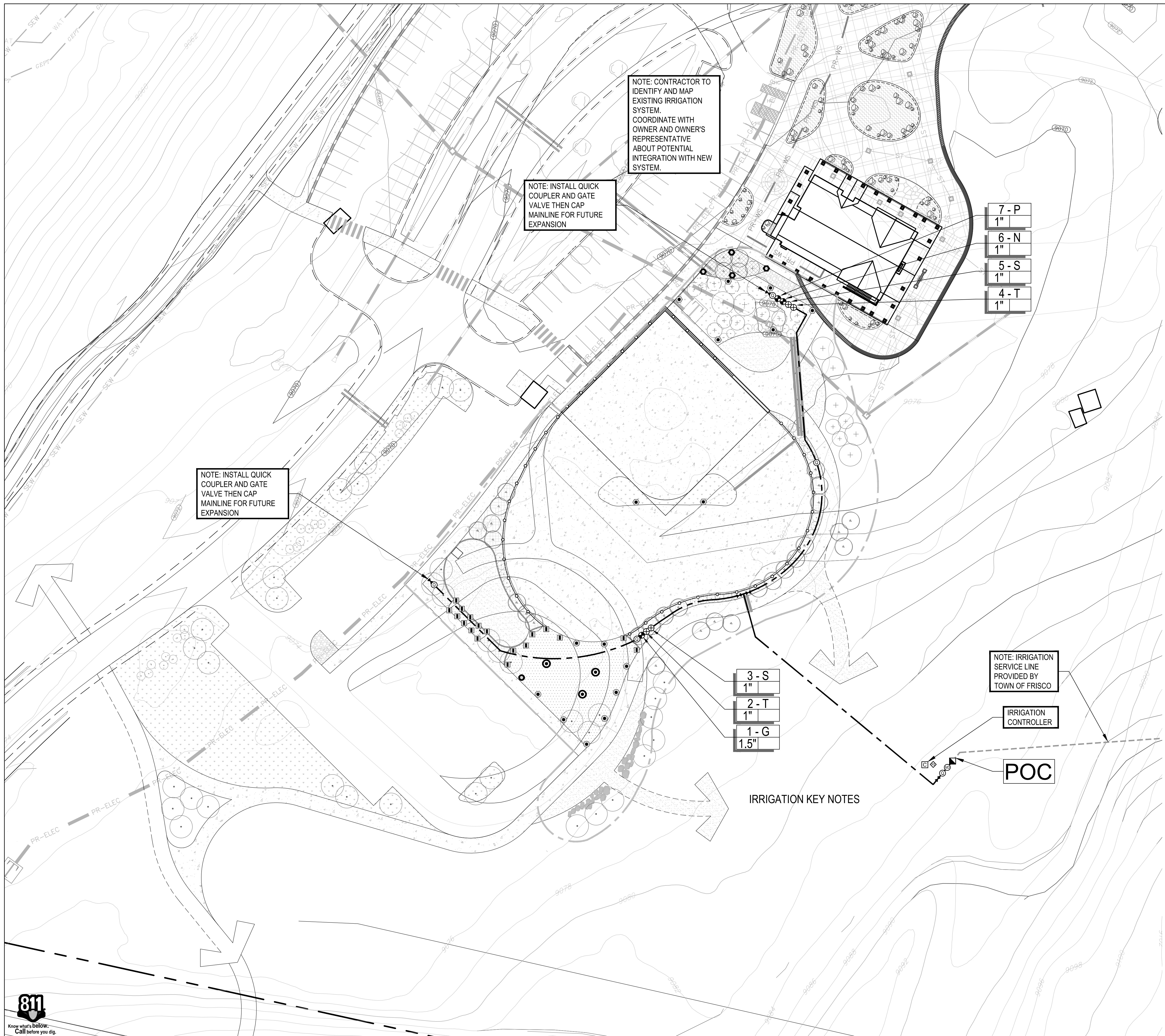
VALVE CALLOUT		EMITTER SCHEDULE			
VALVE/STATION #	ZONE DESIGNATION:	PLANT TYPE	EMITTER	QTY.	TOTAL GPH
X-X	T(TREES), S(SHRUBS), G(TURF), N(SEED), P(PERENNIAL)	PERENNIALS/GRASSES	0.5 GPH	ONE EACH	0.5 GPH
X-X		DECIDUOUS SHRUBS	0.5 GPH	TWO EACH	1.0 GPH
X-X		EVERGREEN SHRUBS	0.5 GPH	TWO EACH	1.0 GPH
X-X		DECIDUOUS TREE	1.0 GPH	SIX EACH	6.0 GPH
X-X		EVERGREEN TREE	1.0 GPH	SIX EACH	6.0 GPH

- EMITTER NOTES**
- ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS.
 - EMITTER SCHEDULE IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL ADJUST EMITTER AND NUMBER OF EMITTERS BASED ON THE NEEDS OF INDIVIDUAL PLANTS OR PLANT HYDROZONES.
 - 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH.
 - RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING.

NATIVE SEED		
SYMBOL	DESCRIPTION	IRRIGATION APPLICATION
	IRRIGATED DRYLAND SEED	SHALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE TURNED OFF AFTER THE ESTABLISHMENT PERIOD.



NOT FOR CONSTRUCTION



NOTE: CONTRACTOR TO IDENTIFY AND MAP EXISTING IRRIGATION SYSTEM. COORDINATE WITH OWNER AND OWNER'S REPRESENTATIVE ABOUT POTENTIAL INTEGRATION WITH NEW SYSTEM.

NOTE: INSTALL QUICK COUPLER AND GATE VALVE THEN CAP MAINLINE FOR FUTURE EXPANSION

NOTE: INSTALL QUICK COUPLER AND GATE VALVE THEN CAP MAINLINE FOR FUTURE EXPANSION

7 - P
1"
6 - N
1"
5 - S
1"
4 - T
1"

3 - S
1"
2 - T
1"
1 - G
1.5"

NOTE: IRRIGATION SERVICE LINE PROVIDED BY TOWN OF FRISCO

IRRIGATION CONTROLLER

POC

IRRIGATION KEY NOTES

IRRIGATION EQUIPMENT IS SHOWN FOR GRAPHIC CLARITY. ALL MAINLINES, LATERALS, VALVES ETC SHALL BE LOCATED WITHIN PLANTING AREAS. IRRIGATION MAINLINE AND LATERAL ROUTING AND EQUIPMENT INSTALLATION SHALL BE ADJUSTED TO AVOID CONFLICTS WITH ELECTRICAL UTILITY, LIGHTING, DRAIN INLETS AND STORM WATER DRAINAGE FIXTURES. ALL ADJUSTMENTS TO MAINTAIN HEAD TO HEAD COVERAGE IN TURF SPRAY AREAS. CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS AND THE OWNER'S REPRESENTATIVE DURING LAYOUT OF SYSTEM. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF CONFLICTS UNABLE TO BE AVOIDED AND PROVIDE ADJUSTED LOCATIONS OF ANY AND ALL EQUIPMENT ON AS-BUILT DRAWINGS.

FRISCO PENINSULA
 SITE IMPROVEMENTS
 FRISCO, CO
 SCHEMATIC DESIGN

OWNER:
 TOWN OF FRISCO
 1 MAIN STREET
 FRISCO, CO
 970.668.5276
 970.668.0677



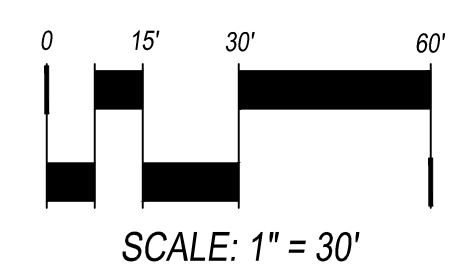
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SHEET TITLE:
 IRRIGATION PLAN

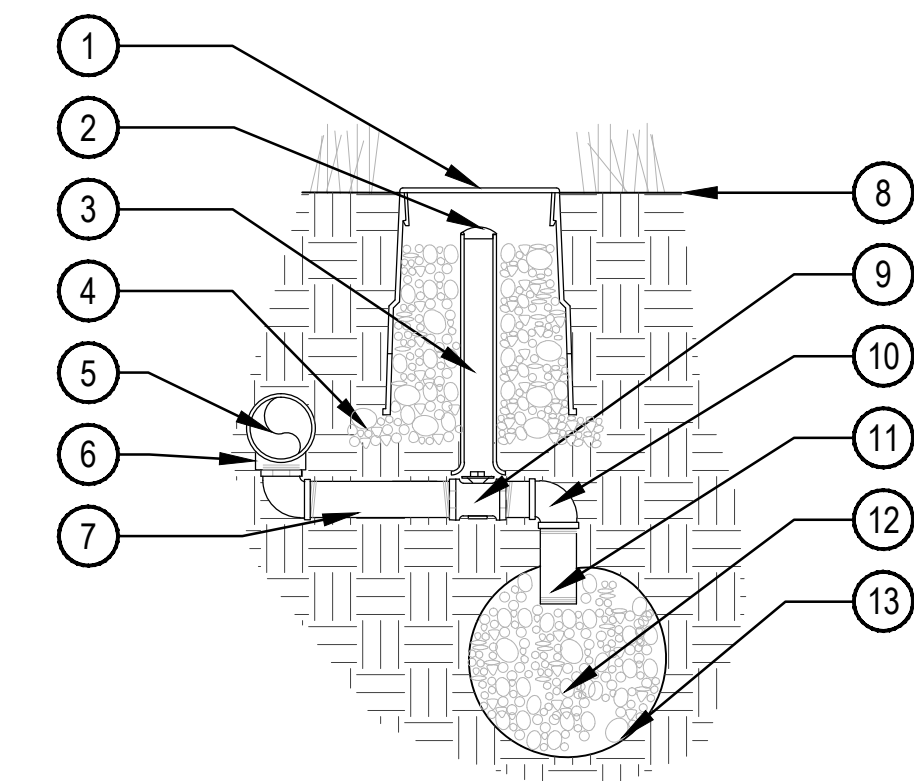
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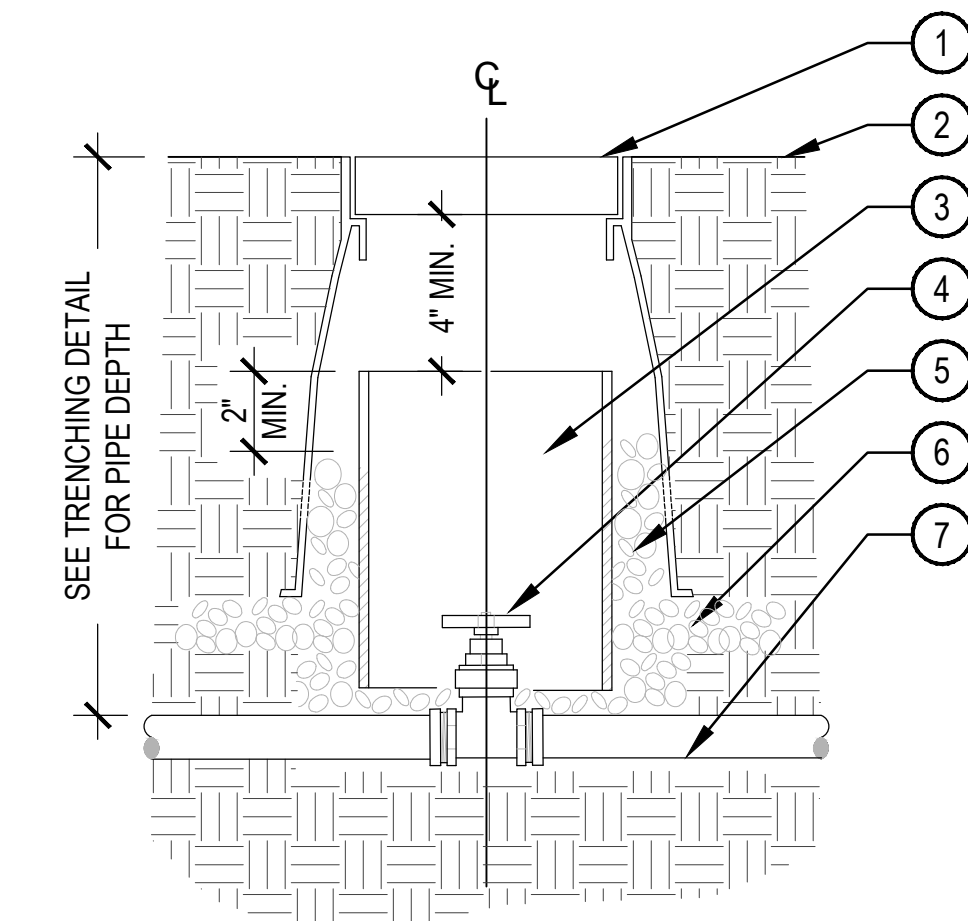
NOT FOR CONSTRUCTION



- NOTE:
 1. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.
 2. LOCATE DRAIN VALVE AT POINT OF CONNECTION AND AT ALL LOW POINT(S) ALONG THE IRRIGATION MAINLINE AS NEEDED.

- 10" LOCKING ROUND BOX & COVER PER SCHEDULE. TOP OF BOX TO BE FLUSH WITH FINISH GRADE.
- 2" VALVE MARKER
- 2" CL160 PVC ACCESS SLEEVE LENGTH AS REQUIRED.
- 3" DEPTH 3/4" CRUSHED GRAVEL 6" BEYOND EDGE OF BOX
- PVC PRESSURE MAIN LINE
- SCH. 80 TEE PER MAINLINE SIZE. ALIGN IN A DOWNWARD POSITION
- SCH. 80 PVC NIPPLE
- FINISH GRADE
- 1" BRONZE STOP VALVE WITH SLOTTED KEY OPERATOR
- SCH. 80 PVC ELL
- SCH. 80 PVC NIPPLE
- 3/4" GRAVEL SUMP - 1 CU. FT. MIN
- SOIL BLANKET ENCLOSING SUMP AMOCO ENG. FABRIC 4545 - 4.5 OZ. OR EQUAL

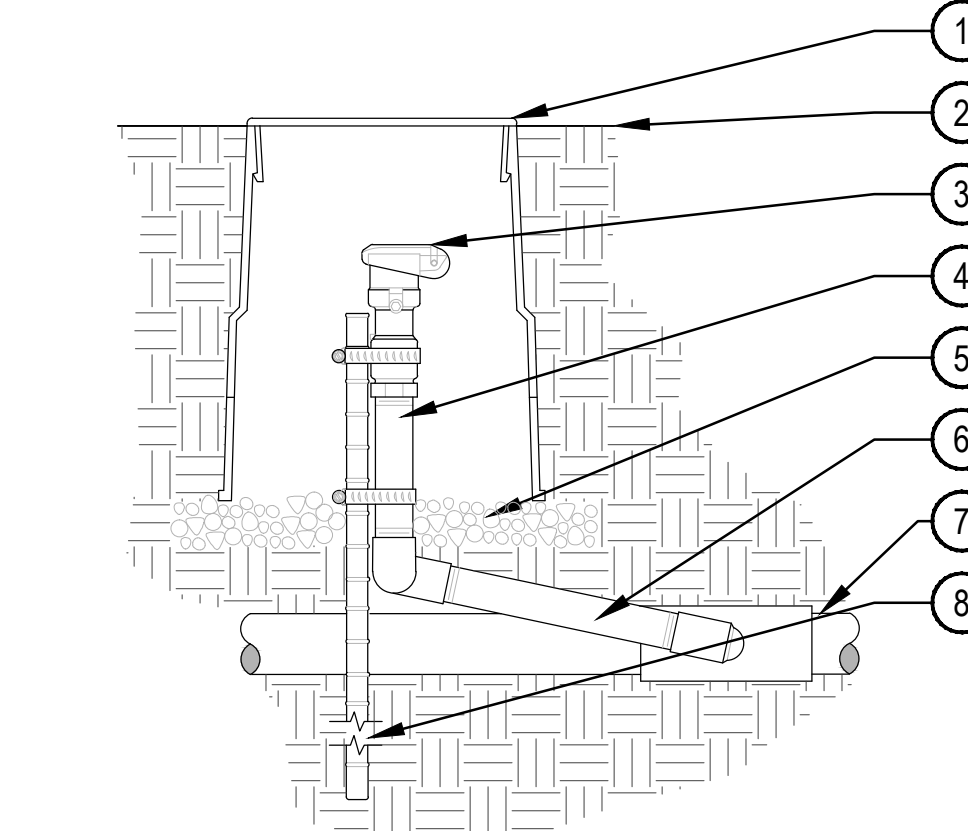
7 MANUAL DRAIN VALVE



- NOTE:
 1. COMPACT SOIL AROUND GATE VALVE ASSEMBLY TO THE SAME DENSITY AS ADJACENT UNDISTURBED SUBGRADE.
 2. DO NOT REST VALVE BOX OR ACCESS SLEEVES ON MAINLINE OR LATERAL LINE.
 3. PROVIDE GATE VALVE KEY - LENGTH AS REQUIRED.

1. LOCKING ROUND BOX & COVER PER SCHEDULE. TOP OF BOX TO BE FLUSH WITH FINISH GRADE
- FINISH GRADE
- 2" CL160 PVC ACCESS SLEEVE LENGTH AS REQUIRED.
- GATE VALVE W/ CROSS HANDLE AND SOLID WEDGE DISC PER SCHEDULE
- 3/4" GRAVEL SUMP FILL IN AND AROUND BOX AS REQUIRED.
- 3" DEPTH 3/4" GRAVEL EXTEND 6" BEYOND EDGE OF BOX
- PVC MAINLINE AS PER PLAN

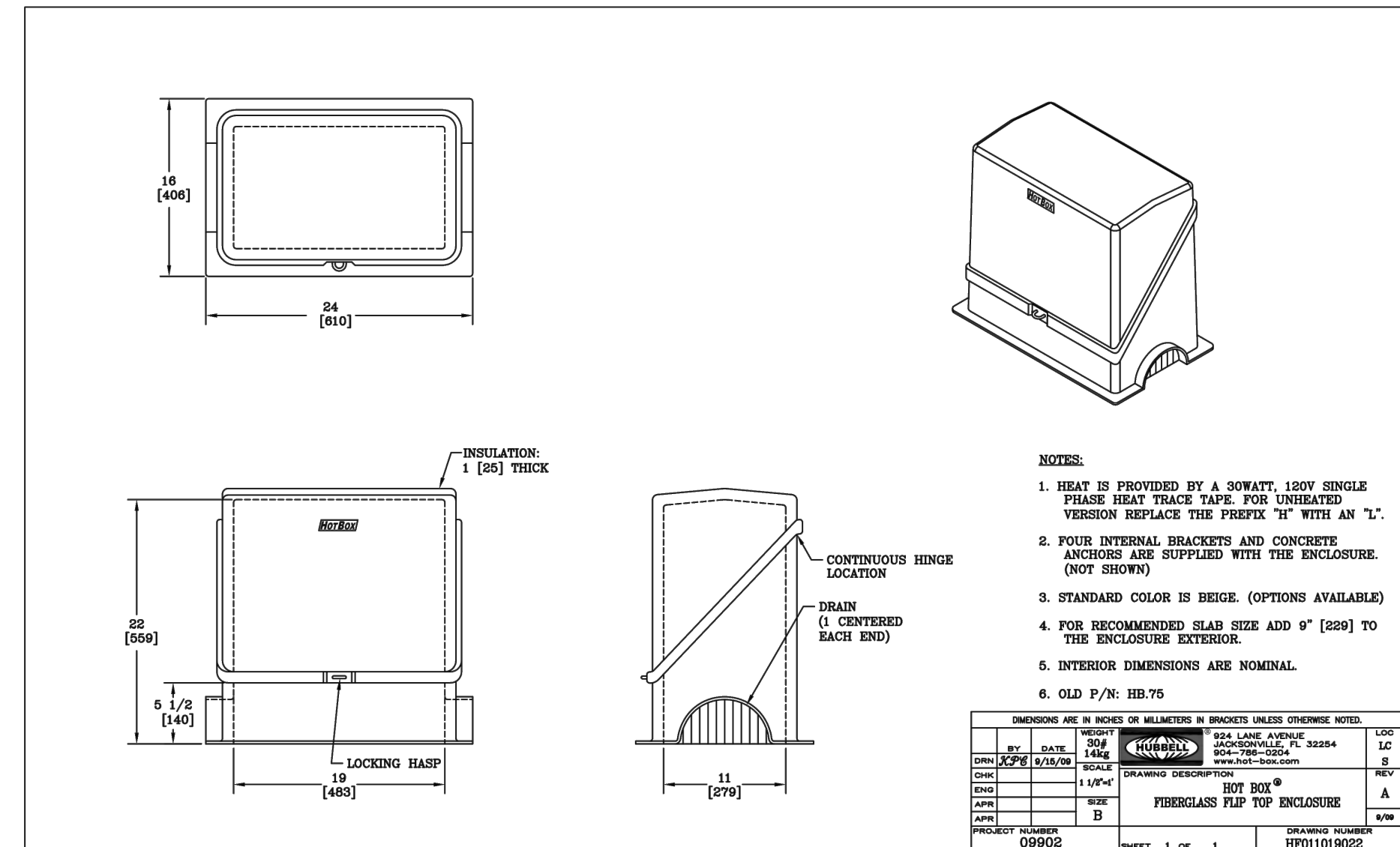
8 GATE VALVE 3" & SMALLER



- NOTE:
 1. EACH QUICK COUPLER SHALL BE IN A SEPARATE VALVE BOX
 2. PROVIDE (1) QUICK COUPLER KEY FOR EACH QUICK COUPLER VALVE.
 3. QUICK COUPLER SHALL HAVE YELLOW LOCKING RUBBER COVER
 4. COMPACT SOIL AROUND GATE VALVE ASSEMBLY TO THE SAME DENSITY AS ADJACENT UNDISTURBED SUBGRADE.
 5. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.

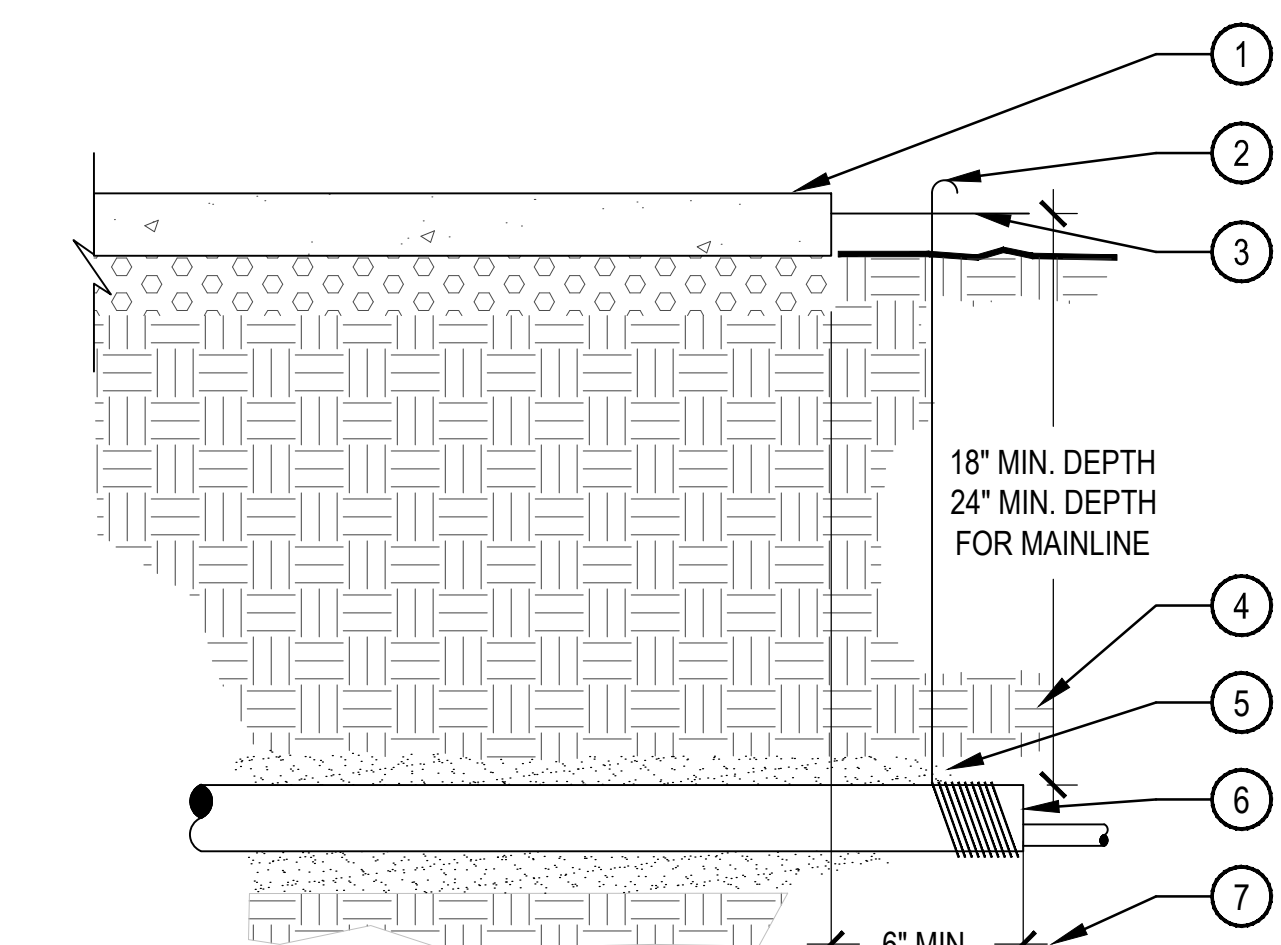
- 6" ROUND BOX & COVER PER SCHEDULE. TOP OF BOX TO FLUSH WITH FINISH GRADE
- FINISH GRADE
- QUICK COUPLING VALVE W/ LOCKING COVER PER SCHEDULE
- SCH. 80 NIPPLE
- 3" DEPTH 3/4" GRAVEL BASE EXTEND 6" BEYOND EDGE OF BOX
- 1" PVC SWING JOINT
- PVC MAINLINE
- 24" #4 REBAR TO HOLD COUPLER IN PLACE W/ (2) STAINLESS STEEL CLAMPS

9 QUICK COUPLER



- NOTES:
 1. HEAT IS PROVIDED BY A SOWATT, 150W SINGLE PHASE HEAT TRACE TAPE. FOR UNHEATED VERSION REPLACE THE PREFIX "1" WITH AN "1".
 2. FOUR INTERNAL BRACKETS AND CONCRETE ANCHORS ARE SUPPLIED WITH THE ENCLOSURE. (NOT SHOWN)
 3. STANDARD COLOR IS BEIGE. (OPTIONS AVAILABLE)
 4. FOR RECOMMENDED SLAB SIZE ADD 4" (102mm) TO THE ENCLOSURE EXTERIOR.
 5. INTERIOR DIMENSIONS ARE NOMINAL.
 6. OLD P/N: 88L75

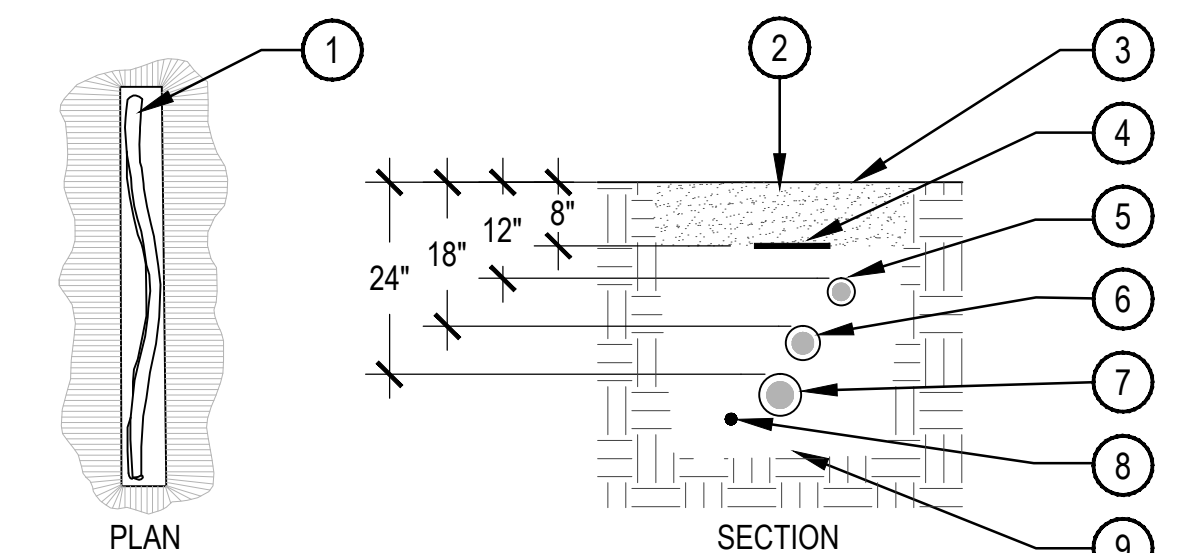
4 BACKFLOW PREVENTER ENCLOSURE



- NOTE:
 1. ALL SLEEVES SHALL BE INSPECTED PRIOR TO BACKFILLING.
 2. CAP SLEEVES UNTIL USE.
 3. MULTIPLE SLEEVES REQUIRE 4" HORIZONTAL SEPARATION WITHIN SAME SLEEVE TRENCH.
 4. IRRIGATION PIPE AND WIRE SHALL NOT SHARE THE SAME SLEEVE.
 5. MARK / STAMP - 'X' AND/OR INSTALL PLACARD AT BACK OF CURB.

1. PAVING
- WRAP 12 GAUGE GALVANIZED WIRE AROUND EACH END OF SLEEVE (10 WRAPS MIN.) AND EXTEND TO SURFACE AS A LOCATING DEVICE.
- FINISH GRADE / TOP OF DG.
- COMPACT SOIL AROUND SLEEVE TO SAME DENSITY AS ADJACENT UNDISTURBED SOIL.
- WASHED AND GRADED MORTAR SAND BACKFILL IN ROCKY SOIL CONDITIONS.
- PVC SLEEVE PER SCHEDULE. TWICE DIAMETER OF THE SUM OF THE PIPES/ WIRES
- EXTEND SLEEVES 6" BEYOND EDGES OF PAVING

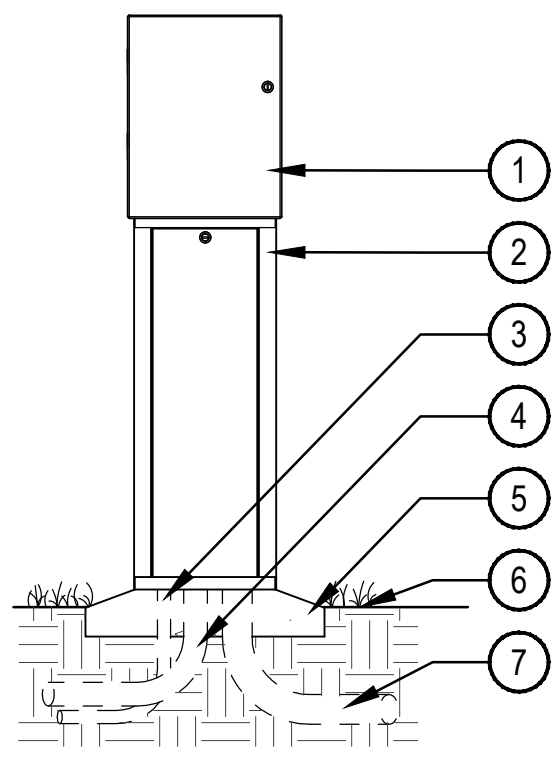
5 IRRIGATION SLEEVE



- NOTE:
 1. ALL MAINLINES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. ALL PVC PIPING TO BE SNAKED IN TRENCHES AS SHOWN IN PLAN VIEW ABOVE.
 3. ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED AS PER LOCAL CODES.
 4. ALL ELECTRICAL WIRE CONNECTIONS TO VALVES AND SPLICES TO BE INSTALLED WITHIN A VALVE BOX AND MADE WITH DRY WATERPROOF CONNECTORS, OR APPROVED EQUAL.
 5. BUNDLE AND TAPE WIRING AT 10' INTERVALS
 6. VALVE WIRES TO BE INSTALLED WITHIN MAINLINE TRENCH WHEREVER POSSIBLE.
 7. BEDDING MATERIAL SHALL BE 1/4" MINUS SAND, AND SHALL BE 3" BELOW LOWEST PIPE OR WIRE AND 3" ABOVE HIGHEST PIPE OR WIRE WITHIN TRENCH.
 8. BEDDING MATERIAL SHALL BE IN MAINLINE TRENCH ONLY.
 9. BEDDING IS NOT REQUIRED IN POLYETHYLENE TUBING TRENCHES.
 10. EXCAVATED COVER MATERIAL SHALL BE FREE FROM DEBRIS AND ROCKS 1/2" OR GREATER.
 11. PIPE BEDDING MATERIAL TO BE ROCK AND DEBRIS FREE, BACKFILL IN 6" LIFTS, PUDDLE WITH WATER, BETWEEN LIFTS.

1. SNAKE PVC OR POLYETHYLENE PIPE IN TRENCH
- EXCAVATED COVER MATERIAL (SEE NOTES)
- FINISH GRADE
- INDICATOR TAPE (MAIN LINE)
- POLYETHYLENE DRIP LATERAL (12" MIN. COVERAGE, 18" MIN. COVERAGE BELOW PEDESTRIAN WALKS.)
- IRRIGATION SUB-MAIN LATERAL
- IRRIGATION MAINLINE
- VALVE WIRING
- BEDDING MATERIAL (SEE NOTES)

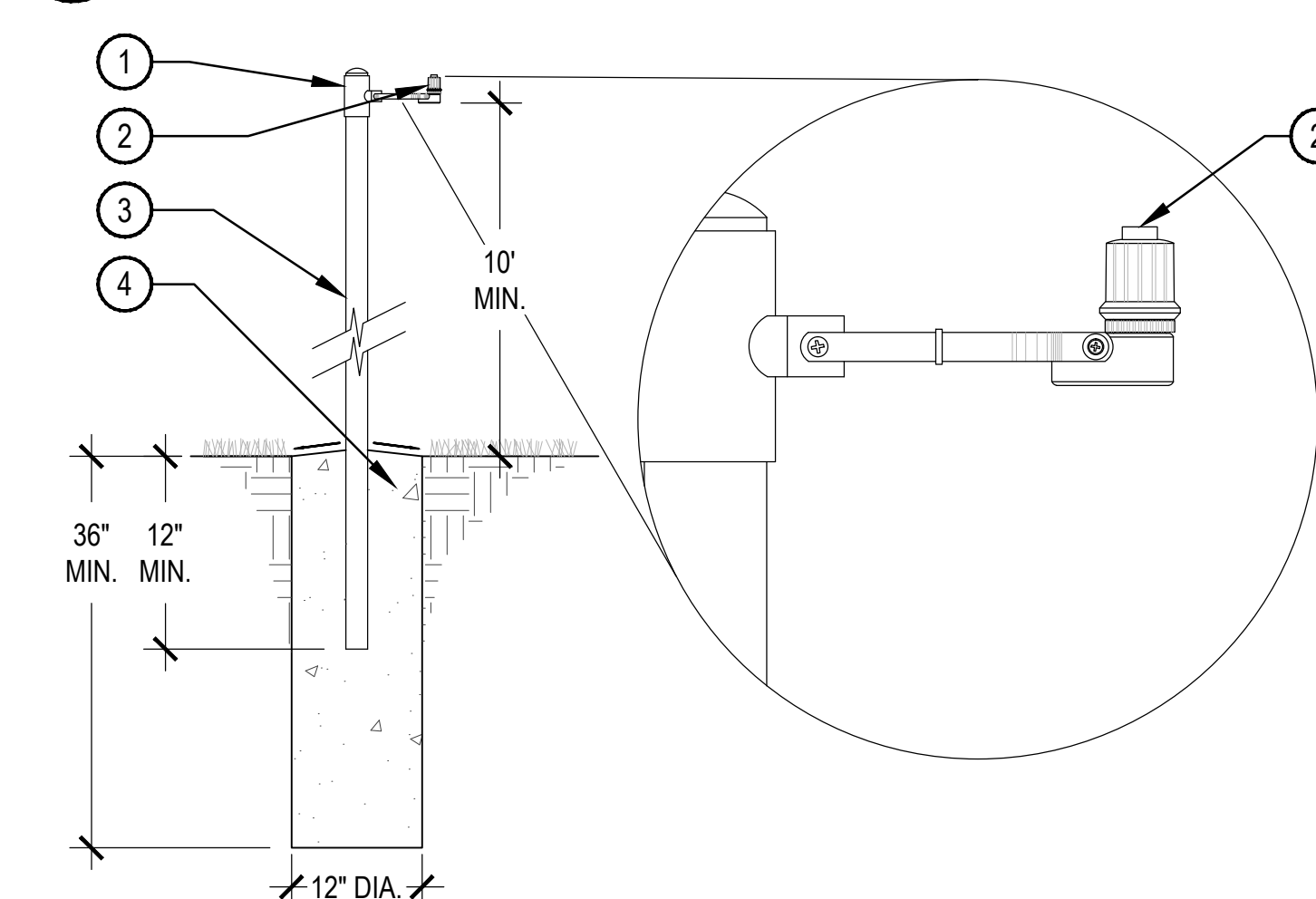
6 IRRIGATION TRENCH



1. METAL ENCLOSURE CONTROLLER PER SCHEDULE
2. METAL PEDESTAL MOUNT ENCLOSURE PER SCHEDULE
3. 1" ELECTRICAL SUPPLY CONDUIT: SIZE, TYPE, DEPTH PER LOCAL CODE
4. GROUND WIRE CONDUIT MIN. 1-1/2". GROUND PER ASIC GUIDELINES.
- 6" THICK CONCRETE BASE WITH SLEEVES FOR CONDUIT
- FINISH GRADE
- CONDUIT FOR DIRECT BURY CONTROL WIRES. EXTEND CONDUIT 5' FROM CONTROLLER

- NOTE:
 1. ALL ELECTRICAL AND CONTROLLER WIRE TO BE INSTALLED PER LOCAL CODE AND MANUFACTURER'S SPECIFICATIONS.
 2. PROVIDE LOCK AND KEY FOR ENCLOSURE.
 3. GROUND CONTROLLER PER LOCAL CODE, MANUFACTURER AND ASIC SPECIFICATIONS.
 4. PROVIDE WATERPROOF SEALANT FOR ALL CONDUIT AND WIRE ACCESS POINTS.

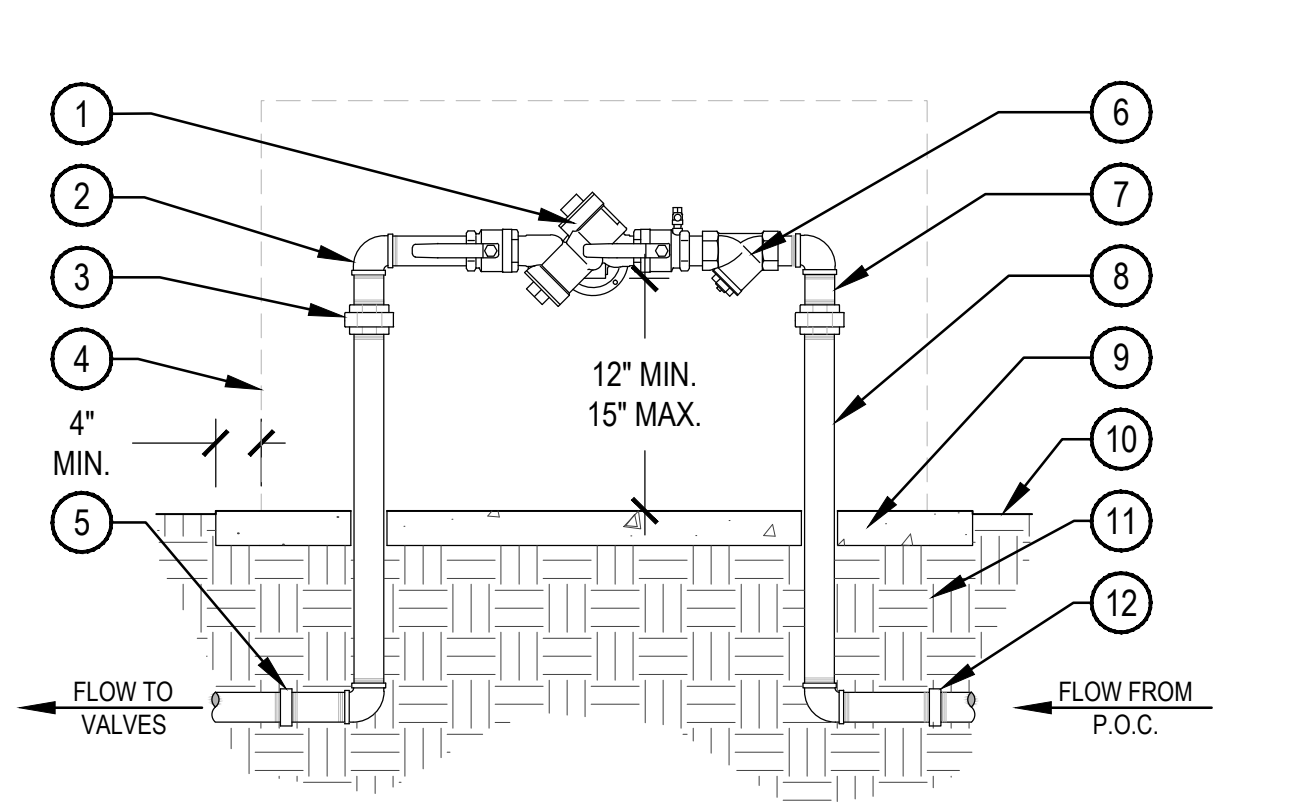
1 PEDESTAL CONTROLLER INSTALLATION



- NOTE:
 1. INSTALL RAIN/FREEZE SENSOR NO GREATER THAN 500' FROM THE RECEIVER.
 2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
 3. SLOPE TOP OF FOOTER AWAY FROM POLE.
 4. FINAL LOCATION AND MOUNTING SYSTEM TO BE APPROVED BY OWNER.

- 1-1/2" x 1-1/2" F x F SCH. 40 GALV. TEE WITH 1-1/2" PLUG.
- WIRELESS RAIN/FREEZE SENSOR
- 1-1/2" DIAMETER SCH. 40 GALVANIZED STEEL POST.
- 12" DIA. CONCRETE BASE-FORM WITH SONA-TUBE OR EQ. POST SHALL BE CENTERED WITHIN BASE.

2 WIRELESS RAIN/FREEZE SENSOR (POLE MOUNTED)



- NOTE:
 1. INSTALL PER LOCAL CODES AND MANUFACTURER'S SPECIFICATIONS.
 2. INSTALL FROSTGUARD INSULATED JACKET PER MANUFACTURER'S SPECIFICATION.
 3. PROVIDE PVC PIPE PROTECTION AROUND COPPER SUPPLY LINES AS THEY GO THROUGH THE CONCRETE SLAB BASE.
 4. BACKFLOW PREVENTION DEVICES SHALL BE PLACED A MINIMUM OF TWO (2) FEET FROM THE WATER METER AND SHAL BE THE SAME SIZE AS THE METER SERVICE LINE.
 5. PROVIDE THRUST BLACKS FOR LINES 2-1/2" OR LARGER

1. BACKFLOW PREVENTER W/ BALL VALVES PER SCHEDULE
- BRASS ELLS
- BRASS UNION (TYP)
- BACKFLOW PREVENTER ENCLOSURE PER SCHEDULE
- PVC ADAPTOR 30" BEYOND UNIT
- Y-STRAINER W/ 80-MESH SCREEN
- BRASS NIPPLES (TYP)
- TYPE K COPPER PIPE
- 4" THICK CONCRETE PAD
- FINISH GRADE
- COMPACTED SUBGRADE
- PVC ADAPTOR 30" BEYOND UNIT

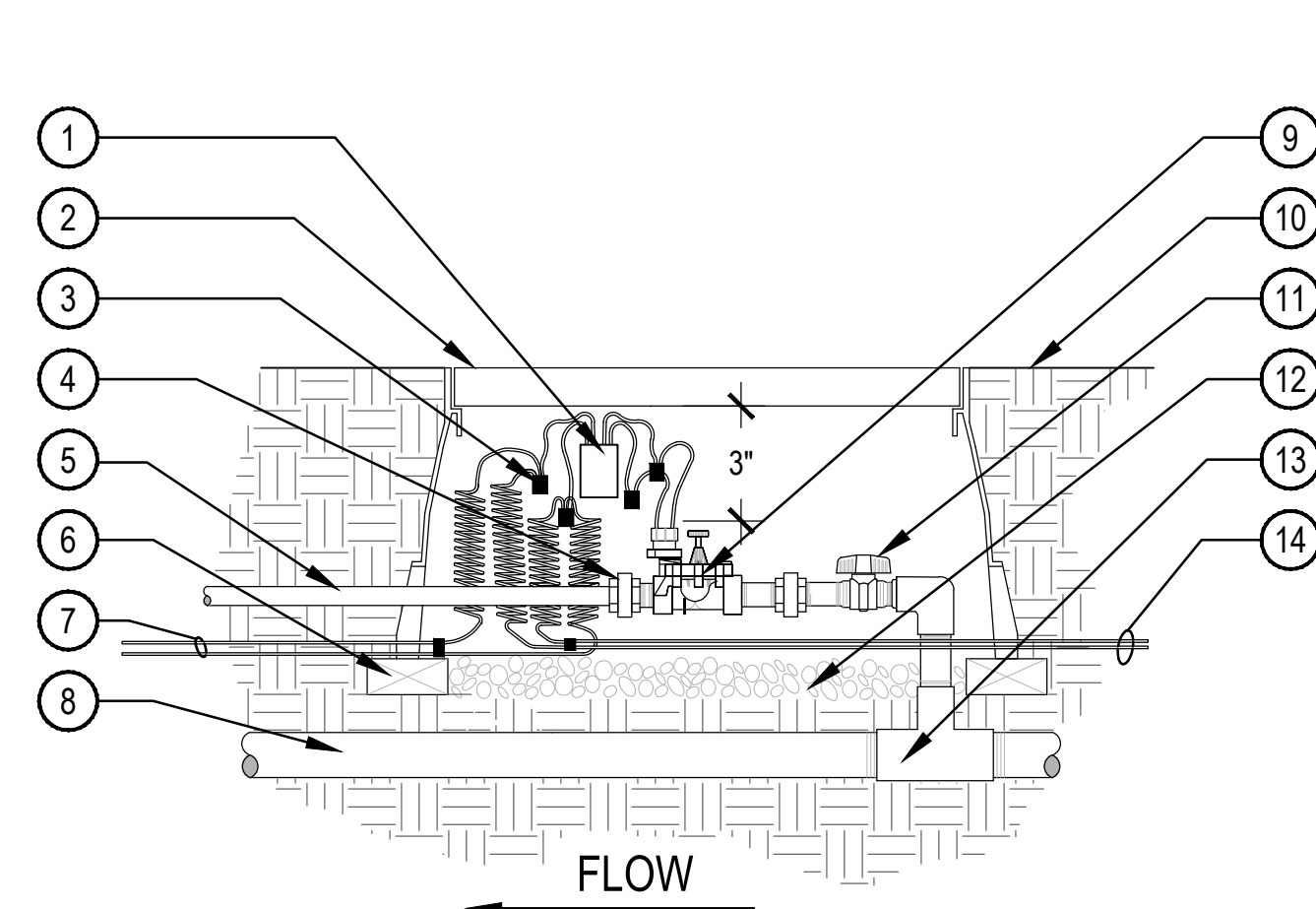
3 BACKFLOW PREVENTER

SCALE: NTS

SCALE: NTS

SCALE: NTS

CHECKED BY:
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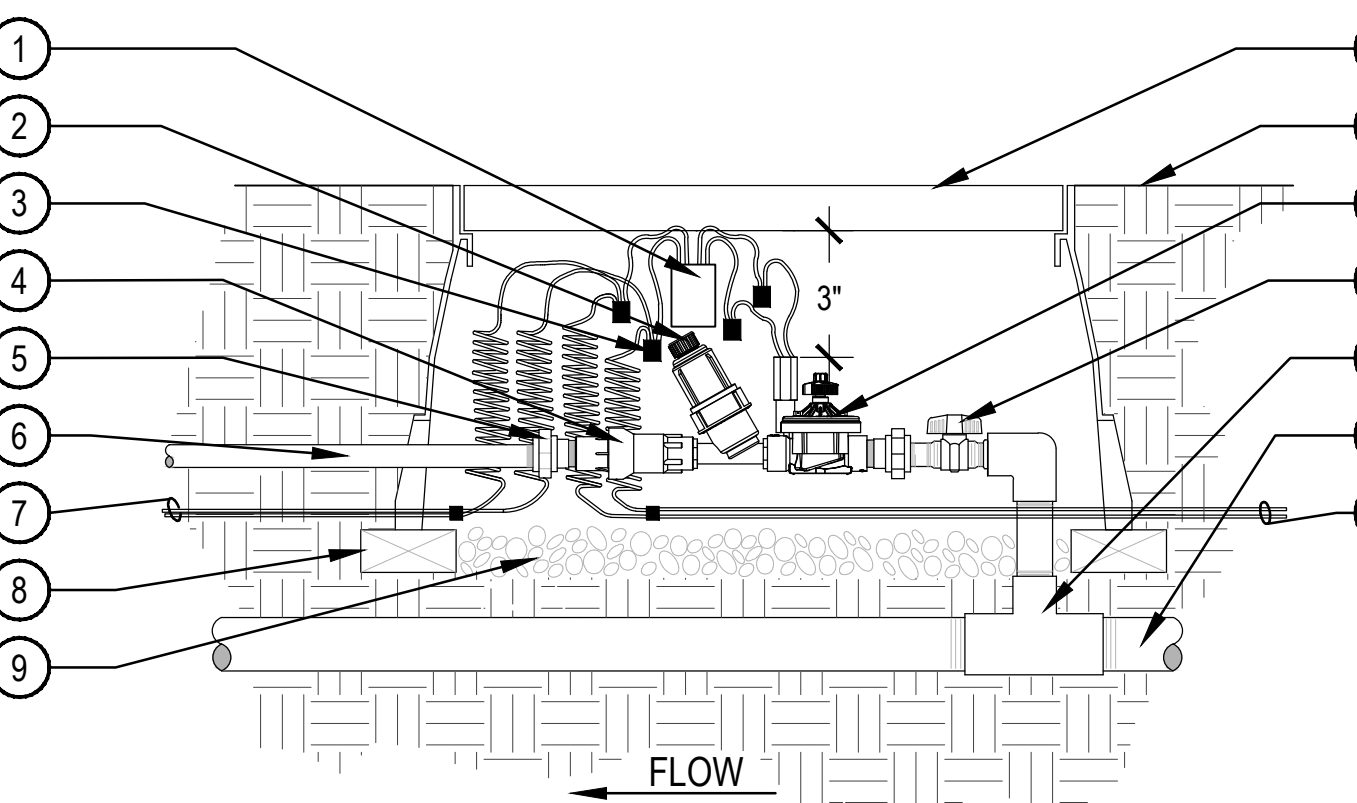


- 1 TWO WIRE DECODER
- 2 PLASTIC LOCKING VALVE BOX PER SCHEDULE. TOP OF BOX TO BE FLUSH WITH FINISH GRADE
- 3 WATERPROOF CONNECTORS
- 4 SCH. 80 PVC UNION (TYP.)
- 5 3/4" POLY LATERAL
- 6 BRICK SUPPORTS 4 MIN.
- 7 ID PATH WIRE TO NEXT DECODER
- 8 PVC MAINLINE
- 9 VALVE ASSEMBLY
- 10 FINISH GRADE
- 11 PVC BALL VALVE PER SCHEDULE
- 12 3/4" GRAVEL SUMP - 4" DEPTH
- 13 SCH. 80 TEE W/ SCH. 80 NIPPLE
- 14 ID PATH WIRES FROM CONTROLLER

NOTE:
 1. SEAL WIRE ENDS WITH WATERPROOF SPLICING MATERIAL.
 2. 30" MIN. LENGTH OF PATH WIRE COILED AND PLACED IN BOX AT WATERPROOF CONNECTION TO SOLENOID.
 3. INSTALL DECODERS PER MANUFACTURER'S SPECIFICATIONS FOR WIRING AND GROUNDING.

1 TURF VALVE ASSEMBLY W/ DECODER

SCALE: NTS

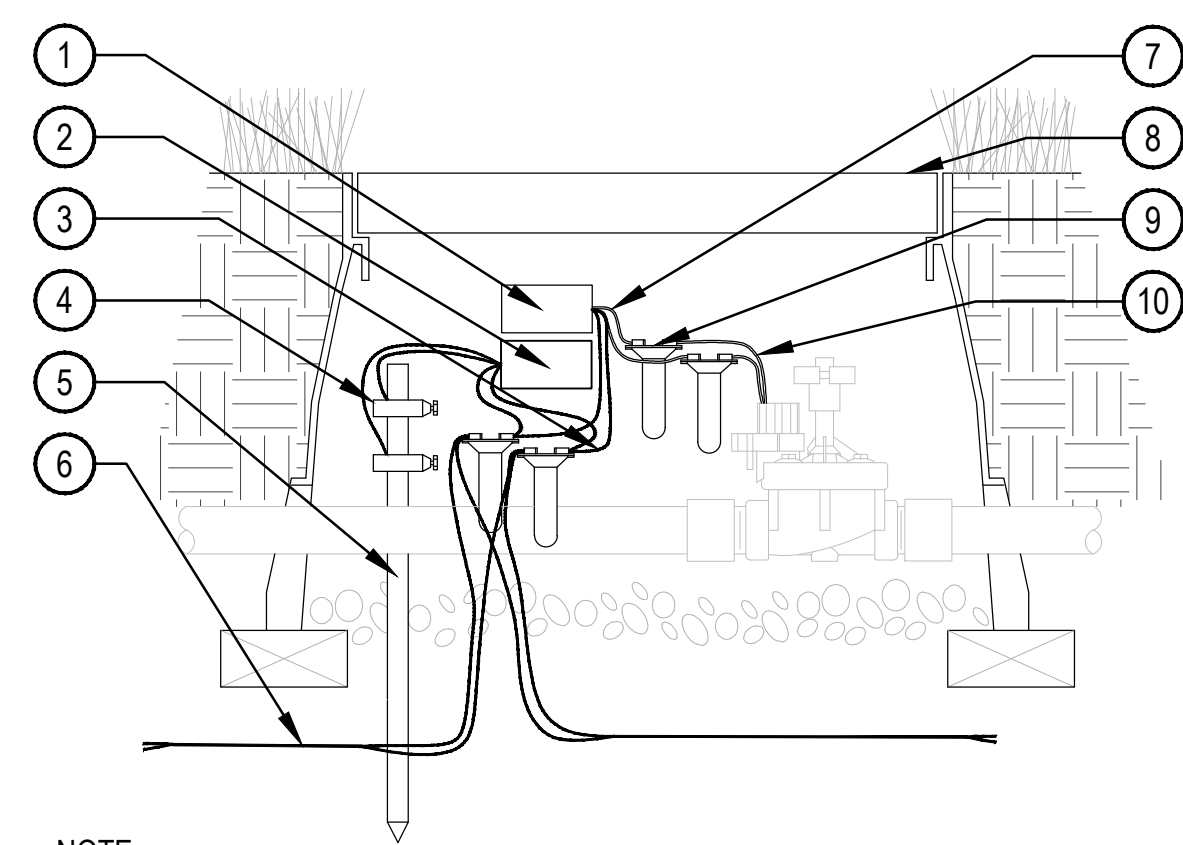


- 1 TWO WIRE DECODER
- 2 WYE FILTER PER SCHEDULE
- 3 WATERPROOF CONNECTORS
- 4 PRESSURE REGULATOR PER SCH.
- 5 SCH. 80 PVC UNION
- 6 POLYETHYLENE DRIP LATERAL
- 7 WIRE TO NEXT DECODER(S)
- 8 BRICK SUPPORTS 4 MIN.
- 9 4" DEPTH GRAVEL SUMP.
- 10 PLASTIC LOCKING VALVE BOX PER SCHEDULE. TOP OF BOX TO BE FLUSH WITH FINISH GRADE
- 11 FINISH GRADE
- 12 VALVE ASSEMBLY
- 13 PVC BALL VALVE PER SCHEDULE
- 14 SCH. 80 TEE W/ SCH. 80 NIPPLE
- 15 PVC MAINLINE
- 16 WIRES FROM CONTROLLER

NOTE:
 1. SEAL WIRE ENDS WITH WATERPROOF SPLICING MATERIAL.
 2. 30" MIN. LENGTH OF PATH WIRE COILED AND PLACED IN BOX AT WATERPROOF CONNECTION TO SOLENOID.
 3. INSTALL DECODERS PER MANUFACTURER'S SPECIFICATIONS FOR WIRING AND GROUNDING.

2 DRIP VALVE ASSEMBLY W/ DECODER

SCALE: NTS

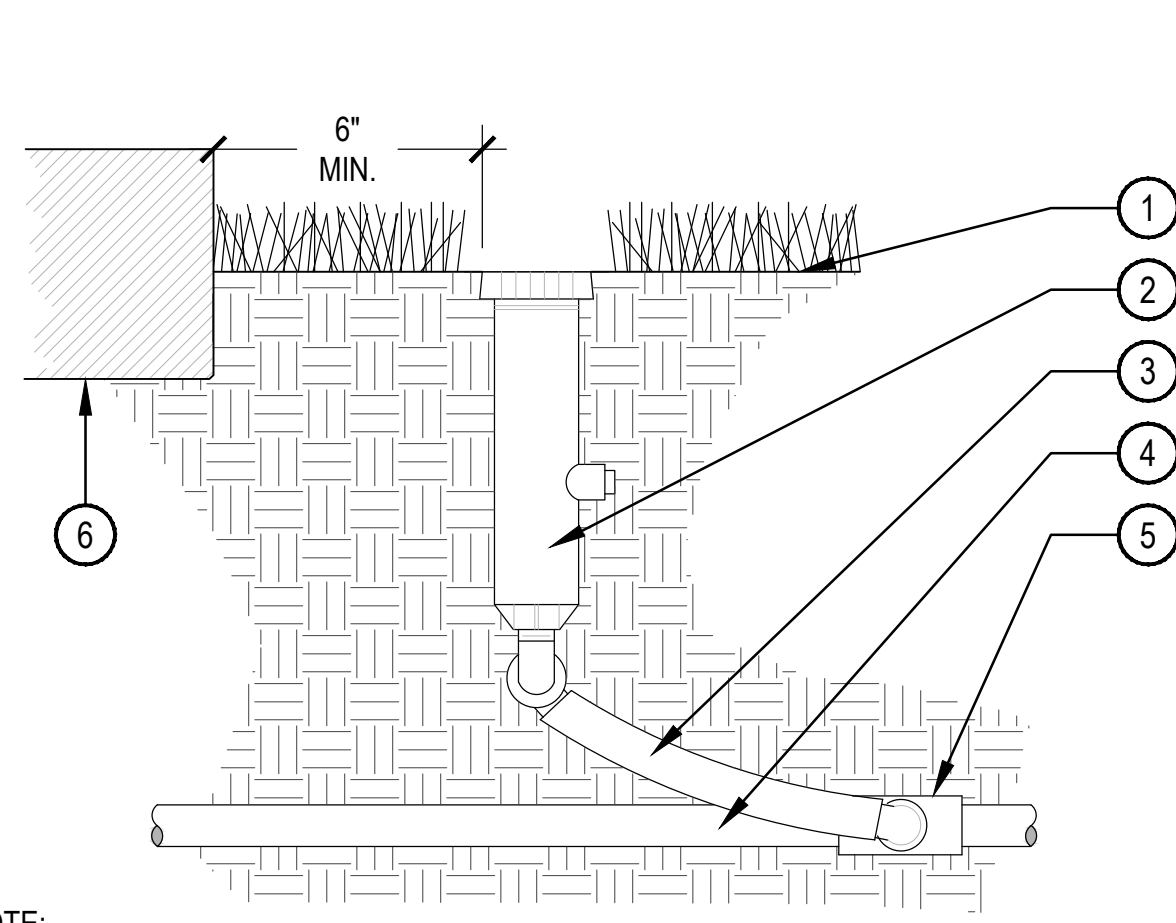


- 1 FIELD DECODER (WITHOUT LINE SURGE PROTECTION: RAIN BIRD FD-101 TURF, FD-102TURF OR FD-202TURF FIELD DECODER)
- 2 LINE SURGE PROTECTOR: RAIN BIRD LSP-TURF M10008
- 3 BLUE WIRE FROM FIELD DECODER
- 4 DB SERIES WIRE CONNECTOR: RAIN BIRD DBTWC25 (1 OF 4)
- 5 GROUNDING ROD: 10 OHMS OR LESS
- 6 TWO-WIRE / COMMUNICATION CABLE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR ESP-LXD CONTROLLER)
- 7 WHITE WIRE FROM FIELD DECODER (1 OF 2)
- 8 12-INCH VALVE BOX WITH COVER: RAIN BIRD VB-S TD
- 9 DB SERIES WIRE CONNECTOR: RAIN BIRD DBTWC25 (1 OF 4)
- 10 SOLENOID WIRE (1 OF 2)

NOTE:
 1. LSP-1TURF SHALL BE INSTALLED EVERY 500-FEET OR FOR EVERY EIGHT DECODERS ON TWO-WIRE PATH.
 2. MAX. LENGTH OF SECONDARY WIRE PATH (14 AWG) FROM DECODER TO SOLENOID IS 450 FT.
 3. PLACE 3 FEET OF EXTRA WIRE IN EVERY VALVE BOX FOR EASIER SERVICING.
 4. RAIN BIRD FD-401TURF AND FD-601TURF FIELD DECODERS COME WITH LSP-1TURF'S BUILT-IN. FD-101TURF, FD-102TURF AND FD-202TURF REQUIRE SEPARATE LSP-1TURF SURGE PROTECTION.

3 RAINBIRD LSP-1TURF AND LIGHTNING SUPPRESSOR

SCALE: NTS

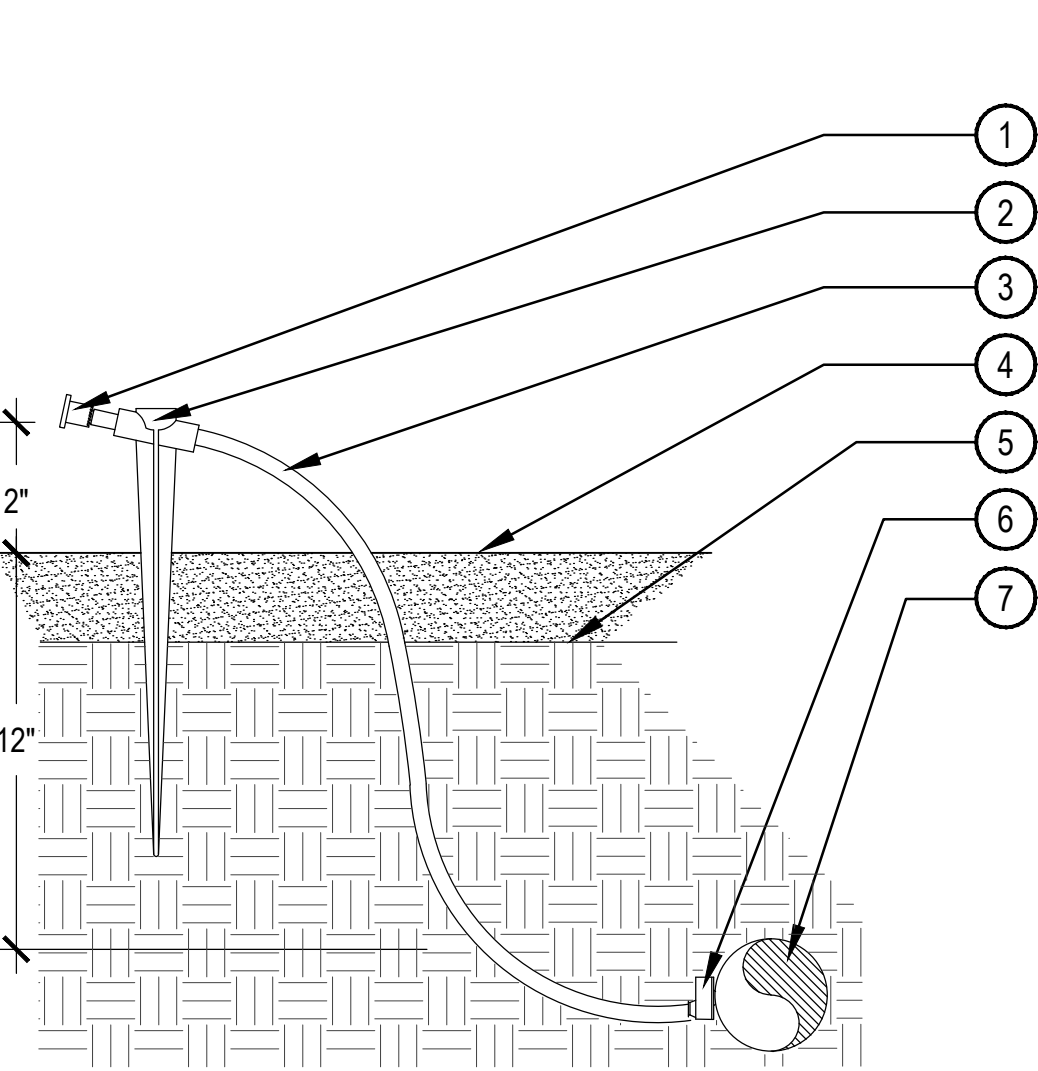


- 1 FINISH GRADE
- 2 POP-UP SPRAY SPRINKLER PER SCHEDULE
- 3 FLEXIBLE SWING JOINT - 18" MAX
- 4 PVC LATERAL PIPE
- 5 PVC SCH. 40 TEE OR ELL, THREADED
- 6 EDGE OF PAVING OR HEADER

NOTE:
 1. AFTER FLUSHING HEADS, REGRADE AND COMPACT AS NEEDED TO RETURN TO FINISH GRADE.
 2. SPRINKLERS SHALL BE MIN. 6" FROM ANY WALLS, WALKS, COURTS, AND 12" FROM TURF EDGE.
 3. ADJUST ALL SPRINKLERS HEADS SO THAT NO OVERSPRAY OCCURS ON ANY WALLS, WALKS, COURTS, ETC.
 4. ALL THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.
 5. COMPACT SOIL AROUND HEAD TO THE SAME DENSITY AS ADJACENT UNDISTURBED SUBGRADE.

4 POP-UP SPRAY ASSEMBLY

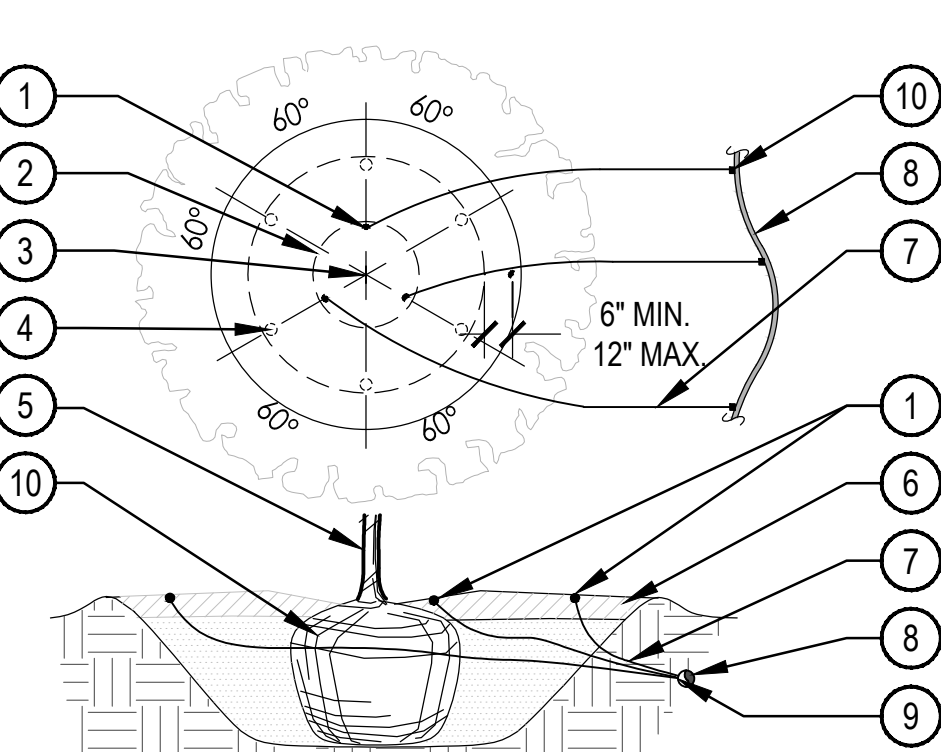
SCALE: NTS



- 1 DBC-25 DIFFUSER CAP
- 2 UNIVERSAL 1/4" TUBING STAKE
- 3 1/4" DISTRIBUTION TUBING: LENGTH NOT TO EXCEED 8'
- 4 TOP OF MULCH
- 5 FINISH GRADE
- 6 PRESSURE COMPENSATING EMITTER PER SCHEDULE. LOCATE ON TOP OR SIDE OF DRIP LATERAL
- 7 3/4" POLYETHYLENE TUBING DEPTH PER DETAIL

5 SINGLE OUTLET EMITTER

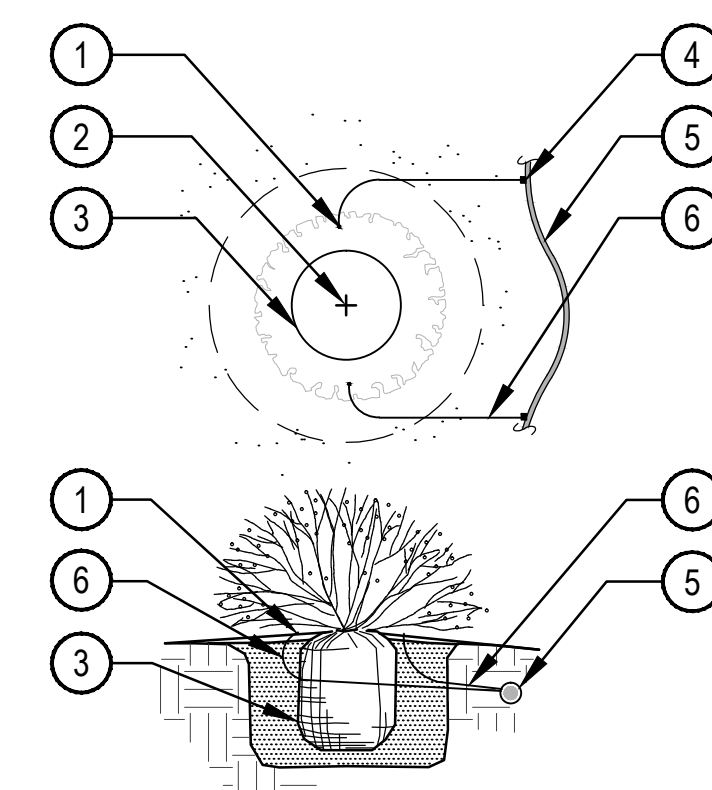
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NOTE:
 1. MAXIMUM LENGTH OF ONE DISTRIBUTION TUBE SHALL BE 8'.
 2. ALL EMISSION POINTS SHALL BE LOCATED ON UPHILL SIDE OF PLANT MATERIAL. ONE EMISSION POINT SHALL BE DIRECTLY TO PLANT BALL AS INDICATED. ADDITIONAL EMISSION POINTS SHALL BE WITHIN PLANT PIT PERIMETER AS DIRECTED IN THE EMITTER SCHEDULE.
 3. SECOND EMISSION POINTS (IF NEEDED) AS PER THE EMITTER SCHEDULE FOR TREES WITH 3" CALIPER OR GREATER OR CONIFEROUS TREES 10' OR GREATER IN HEIGHT.
 4. THIS IS A WATERING GUIDE ONLY. SITE, SOIL AND PLANT CONDITIONS VARY GREATLY. CONTRACTOR MUST OBSERVE THE PLANT MATERIAL AND MAKE ADJUSTMENTS AS NECESSARY FOR PROPER PLANT WATER REQUIREMENT.

6 TREE EMITTER PLACEMENT

SCALE: NTS

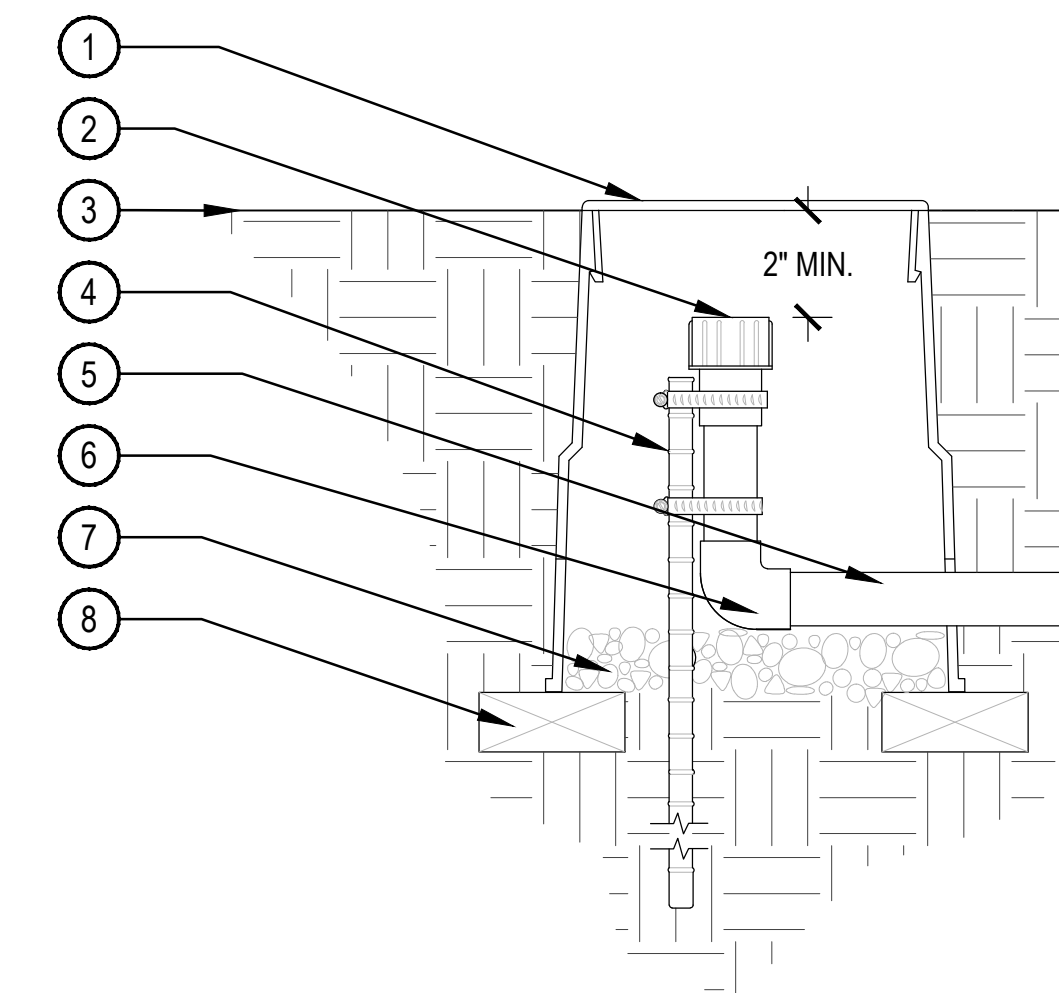


- 1 DIFFUSER CAP W/ DRIP STAKE
- 2 PLANT CENTER
- 3 PLANT ROOTBALL
- 4 SINGLE OUTLET EMITTER
- 5 3/4" POLYETHYLENE DRIP TUBING
- 6 1/4" DISTRIBUTION TUBING (LENGTH NOT TO EXCEED 8')

NOTE:
 1. EMITTERS SHALL BE EQUALLY SPACED AROUND ROOTBALL.
 2. FLUSH ALL LINES THOROUGHLY PRIOR TO EMITTER INSTALLATION.
 3. IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL EMITTERS ON THE UPHILL SIDE OF PLANT.
 4. EMITTERS SHALL BE SELF-FLUSHING PRESSURE COMPENSATING-TYPE UNLESS NOTED OTHERWISE.
 5. DRIP VALVE ZONES (HYDROZONES) ARE DESIGNED TO ACCOUNT FOR DIFFERENCES IN PLANT REQUIREMENTS AND SUN EXPOSURE.
 6. CONTRACTOR SHALL ENSURE HYDROZONES ARE VALVED SEPARATELY AS SHOWN ON PLAN.

7 SHRUB EMITTER PLACEMENT

SCALE: NTS

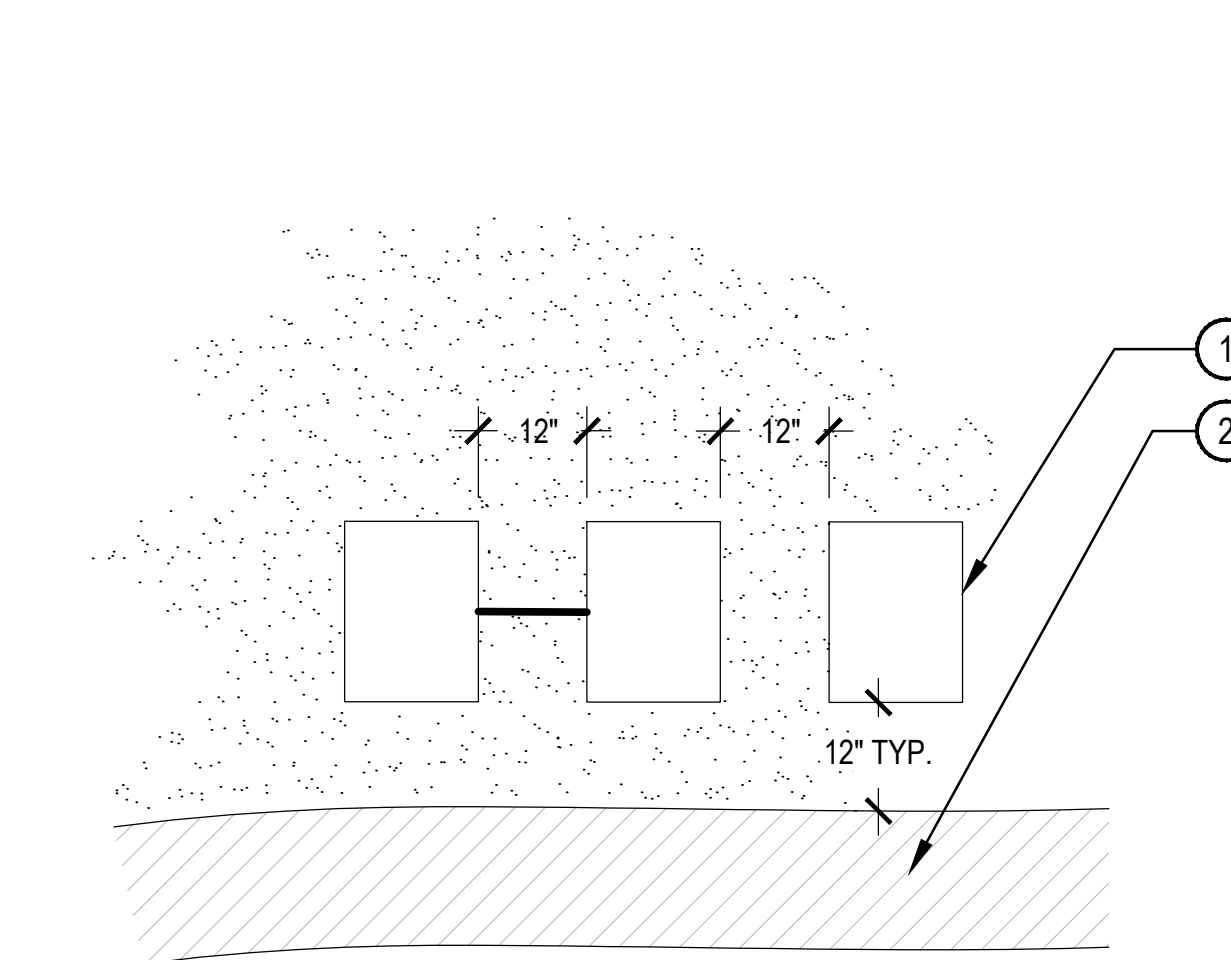


- 1 LOCKING ROUND BOX & COVER PER SCHEDULE. TOP OF BOX TO BE FLUSH WITH FINISH GRADE
- 2 HOSE END SELF FLUSH CAP
- 3 FINISH GRADE
- 4 24" #4 REBAR TO HOLD END CAP IN PLACE W/ (2) STAINLESS STEEL CLAMPS
- 5 POLYETHYLENE LATERAL
- 6 ELBOW COMPRESSION FITTING
- 7 3/4" GRAVEL SUMP- 4" DEPTH
- 8 BRICK (2 REQUIRED MIN.)

NOTE:
 1. COMPACT SOIL AROUND VALVE BOX TO THE SAME DENSITY AS ADJACENT UNDISTURBED SUBGRADE.
 2. SECURE STAKE TO FLUSH END CAP WITH A MIN. OF TWO S.S. CLAMPS.

8 DRIP FLUSH END CAP

SCALE: NTS

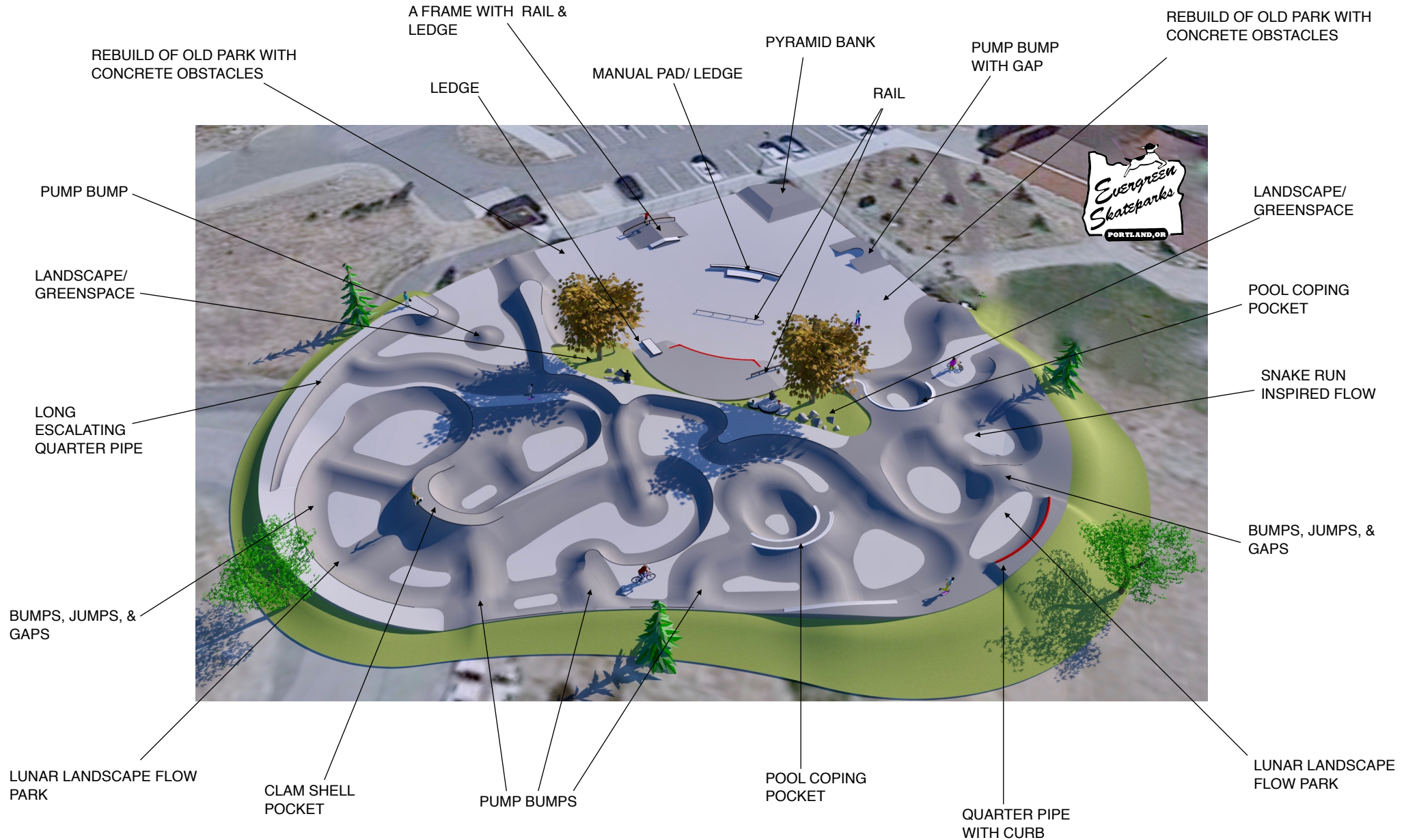


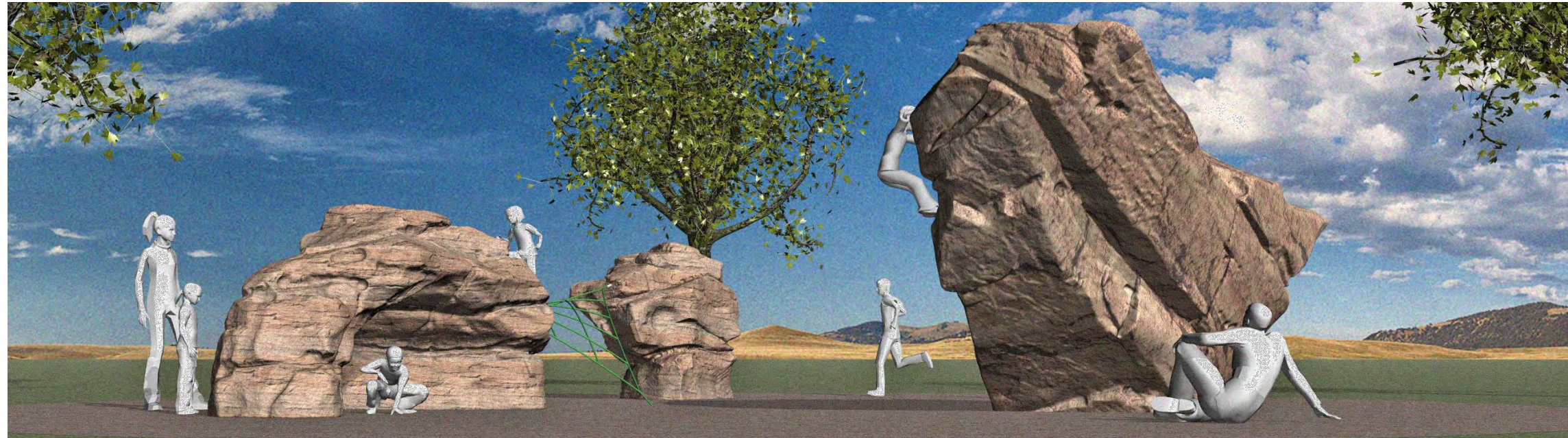
NOTE:
 1. DO NOT PLACE VALVE(S) IN PEDESTRIAN OR TURF AREAS

9 VALVE BOX PLACEMENT

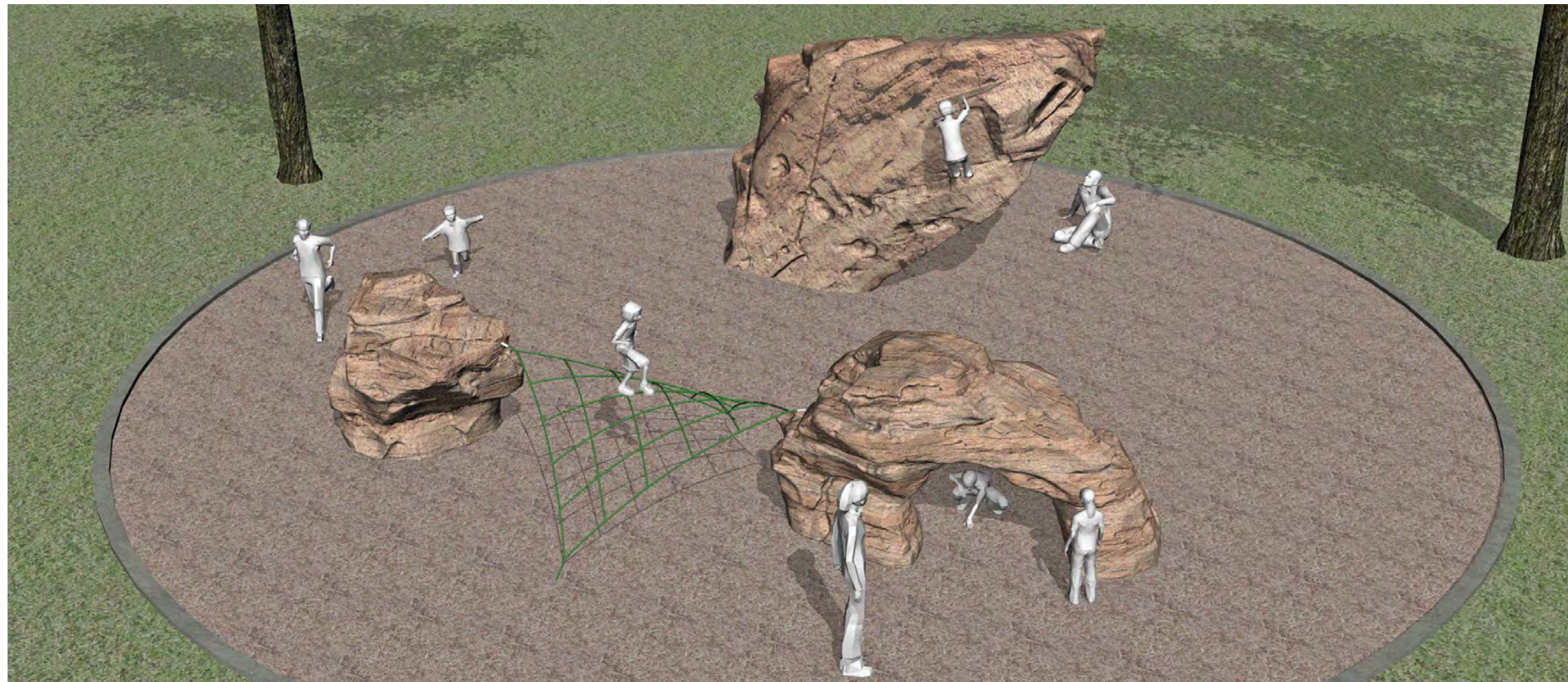
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Frisco Skatepark Concept





1 Perspective Opt 1



2 Perspective Opt 1

Frisco Peninsula
Bouldering Garden

Frisco, CO

SCHEMATIC DESIGN
NOT FOR CONSTRUCTION

All IDS projects are designed to meet or exceed ASTM 1487. Not all equipment may be appropriate for all children. Supervision is required. ASTM compliant safety surfacing is required under and around all play equipment. The Americans with Disabilities Act (ADA) may require your play area to be accessible, please consult with an ADA professional to ensure compliance.

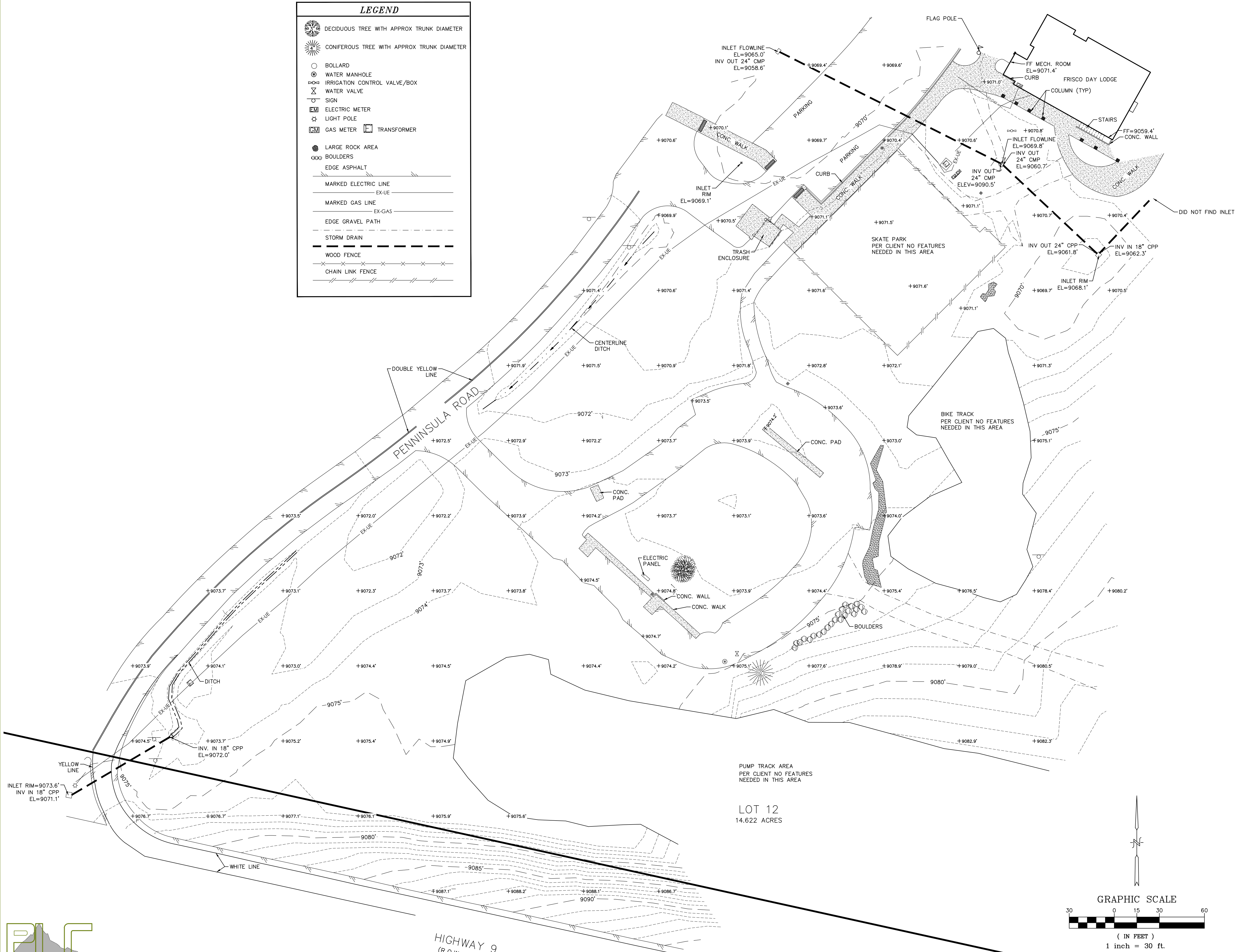
Date
9/22/2017

Drawing Title
Perspectives Opt 1

Sheet #
A.01.1

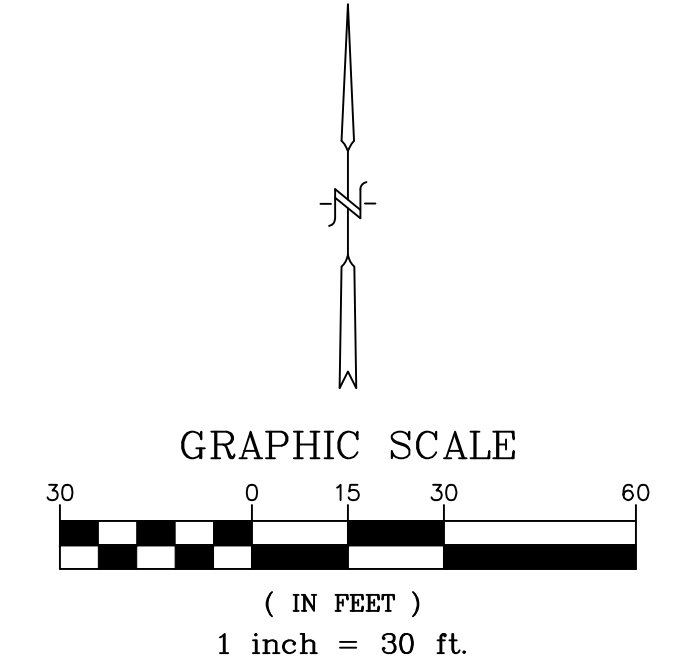
LEGEND

- DECIDUOUS TREE WITH APPROX TRUNK DIAMETER
- CONIFEROUS TREE WITH APPROX TRUNK DIAMETER
- BOLLARD
- WATER MANHOLE
- IRRIGATION CONTROL VALVE/BOX
- WATER VALVE
- SIGN
- ELECTRIC METER
- LIGHT POLE
- GAS METER
- TRANSFORMER
- LARGE ROCK AREA
- BOULDERS
- EDGE ASPHALT
- MARKED ELECTRIC LINE
- MARKED GAS LINE
- EDGE GRAVEL PATH
- STORM DRAIN
- WOOD FENCE
- CHAIN LINK FENCE



- GENERAL NOTES**
- DATE OF TOPOGRAPHY: APRIL 04, 2018
 - PROJECT BENCHMARK: NGS STATION D 450 ELEVATION = 8814.51 (NAVD 88)
 - LINEAL UNITS OF MEASUREMENT SHOWN ARE GIVEN IN US SURVEY FOOT.
 - 1-2 FEET OF SNOW ON GROUND AT TIME OF SURVEY, SOME FEATURES MAY EXIST THAT WERE NOT FOUND AT TIME OF SURVEY.
 - BURIED UTILITY LOCATES PERFORMED BY CLIENT PROVIDED SERVICE, SECONDARY UTILITIES WERE NOT MARKED OR LOCATED.
 - THIS PARTIAL TOPOGRAPHIC MAP IS NOT A LAND SURVEY PLAT OR BOUNDARY SURVEY, NO LEGAL DESCRIPTION PROVIDED BY CLIENT.
 - PEAK LAND SURVEYING, INC. DID NOT PERFORM A TITLE SEARCH OF THE SUBJECT PROPERTY TO ESTABLISH OWNERSHIP, EASEMENTS OR RIGHTS-OF-WAY OF RECORD. NO TITLE POLICY OR COMMITMENT WAS PROVIDED TO ESTABLISH THE EXISTENCE THEREOF. BOUNDARIES AND EASEMENTS SHOWN HEREON ARE PER RECORD PLAT.
 - NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT, MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF CERTIFICATION SHOWN HEREON.

SURVEYOR'S CERTIFICATE
 I, BRENT BIGGS, A PROFESSIONAL LAND SURVEYOR REGISTERED UNDER THE LAWS OF THE STATE OF COLORADO, DO HEREBY CERTIFY THAT THIS TOPOGRAPHIC MAP WAS MADE BY ME AND UNDER MY SUPERVISION, AND THAT THE MAP IS ACCURATE AND CORRECT TO THE BEST OF MY KNOWLEDGE.



DATE: _____

BRENT BIGGS
 COLORADO P.L.S. No. 27598
 FOR & ON BEHALF OF PEAK
 LAND CONSULTANTS, INC.

PARTIAL TOPOGRAPHIC MAP
 FRISCO ADVENTURE PARK
 PART OF SECTION 36, T5S, R78W, 6TH P.M.
 TOWN OF FRISCO, SUMMIT COUNTY, COLORADO

DRAWN: KPJ	REVIEWED: BB	SHEET 1 OF 1
DATE: 04/13/18	PLC JOB#: 1673.4	

PLOTTED BY: SKR/STL ON: 11/20/18 BY: 11:29 AM RELEASED BY: 11/20/18 11:29 AM RELEASED BY: 11/20/18 11:29 AM RELEASED BY: 11/20/18 11:29 AM

COMcheck Software Version 4.0.8.1
Envelope Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
Project Title: Frisco Restroom Addition
Location: Frisco, Colorado
Climate Zone: 7
Project Type: Addition

Construction Site: 621 Recreation Way, Frisco, CO 80443
Owner/Agent: Town of Frisco Public Works Dept., 1 Main Street, Frisco, CO 80443
Designer/Contractor: OZ Architecture, 3003 Larimer Street, Denver, CO 80205

Building Area	Floor Area
1-Restroom Addition Only (Office) : Nonresidential	178

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - Restroom Addition Only]	200	49.0	0.0	0.021	0.027
Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Restroom Addition Only]	408	25.0	0.0	0.057	0.051
Door 1: Insulated Metal, Swinging [Bldg. Use 1 - Restroom Addition Only]	42	---	---	0.300	0.500
Floor 1: Slab-On-Grade Unheated, Vertical 3 ft., [Bldg. Use 1 - Restroom Addition Only] (b)	42	---	10.0	0.510	0.520

(a) Budget U-factors are used for software baseline calculations ONLY; and are not code requirements.
(b) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 7% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title: Rebecca Stone, AIA
Signature: *Rebecca Stone*
Date: 4/27/18



Project Title: Frisco Restroom Addition
Data filename: C:\Users\ksaylor\Desktop\Frisco Comcheck.cck
Report date: 04/26/18
Page 1 of 9

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Space type is not private office, open office, or computer classroom.

Additional Comments/Assumptions:

Project Title: Frisco Restroom Addition
Data filename: C:\Users\ksaylor\Desktop\Frisco Comcheck.cck
Report date: 04/26/18
Page 5 of 9

COMcheck Software Version 4.0.8.1
Inspection Checklist

Energy Code: 90.1 (2010) Standard
Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2.5.4, 3.1.1.5.7 [PR1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.2.2.8.4, 1.1.8.4.1, 2.8.7 [PR6]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder conductors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Project Title: Frisco Restroom Addition
Data filename: C:\Users\ksaylor\Desktop\Frisco Comcheck.cck
Report date: 04/26/18
Page 2 of 9

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.1 [IN1]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather striped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.5.3.1 [IN2]	Roof R-value. For some ceiling systems, verification may need to occur during Framing Inspection.	R-___ <input type="checkbox"/> Above deck <input type="checkbox"/> Metal <input type="checkbox"/> Attic	R-___ <input type="checkbox"/> Above deck <input type="checkbox"/> Metal <input type="checkbox"/> Attic	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.2.5, 8.1.3 [IN3]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.5.3.2 [IN6]	Above-grade wall insulation R-value.	R-___ <input type="checkbox"/> Mass <input type="checkbox"/> Metal <input type="checkbox"/> Steel <input type="checkbox"/> Wood	R-___ <input type="checkbox"/> Mass <input type="checkbox"/> Metal <input type="checkbox"/> Steel <input type="checkbox"/> Wood	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.2 [IN7]	Above-grade wall insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.5.3.4 [IN8]	Floor insulation R-value.	R-___ <input type="checkbox"/> Mass <input type="checkbox"/> Steel <input type="checkbox"/> Wood	R-___ <input type="checkbox"/> Mass <input type="checkbox"/> Steel <input type="checkbox"/> Wood	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.1 [IN10]	Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.4 [IN11]	Eaves are baffled to deflect air to above the insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.5 [IN12]	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditioned space.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.6 [IN13]	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

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Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.5.3.3 [FO1]	Below-grade wall insulation R-value.	R-___	R-___	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.3.5 [FO3]	Slab edge insulation R-value.	R-___ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	R-___ <input type="checkbox"/> Unheated <input type="checkbox"/> Heated	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.2 [FO4]	Slab edge insulation installed per manufacturer's instructions.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.5.3.5 [FO5]	Slab edge insulation depth/length.	___ ft	___ ft	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.1.7.3 [FO7]	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
6.4.4.1.5 [FO11]	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	R-___	R-___	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. See the Envelope Assemblies table for values.

Additional Comments/Assumptions:

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Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7 [IN14]	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.7.1 [IN15]	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.7.2 [IN16]	Foundation vents do not interfere with insulation.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.1.8 [IN17]	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.5.4.3a [FR8]	Vertical fenestration U-Factor.	U-___	U-___	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.4.3b [FR9]	Skylight fenestration U-Factor.	U-___	U-___	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.4.4.1 [FR10]	Vertical fenestration SHGC value.	SHGC:___	SHGC:___	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.5.4.4.2 [FR11]	Skylight SHGC value.	SHGC:___	SHGC:___	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.8.2.1 [FR12]	Fenestration products rated in accordance with NFRC.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.2.2 [FR13]	Fenestration products are certified as to performance labels or certificates provided.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
5.8.2.3.5, 5.3.6 [FR14]	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-___ <input type="checkbox"/> Swinging <input type="checkbox"/> Nonswinging	U-___ <input type="checkbox"/> Swinging <input type="checkbox"/> Nonswinging	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Envelope Assemblies table for values.
5.4.3.1 [FR15]	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces and in climate zones 1-6.			<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
5.4.3.3 [FI1]	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

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(ALTERNATE #1)
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PROJ. NO. 117119.00
DRAWN: OZ
CHECKED: OZ
APPROVED: OZ
DATE: 2018-04-27

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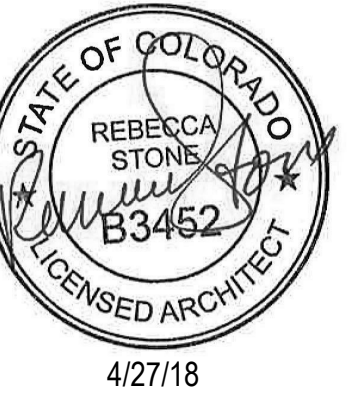
FRISCO DAY LODGE RENOVATION
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SCALE:
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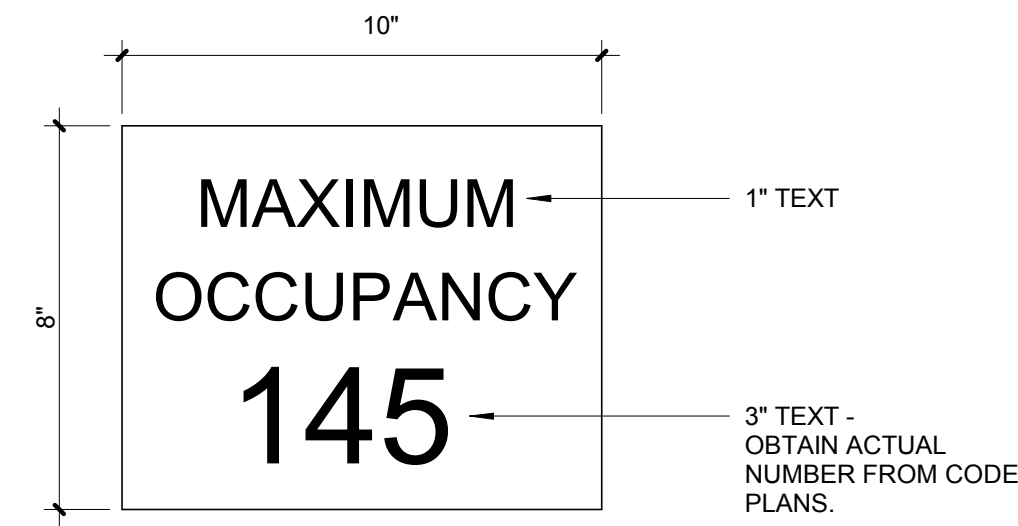
4/27/18

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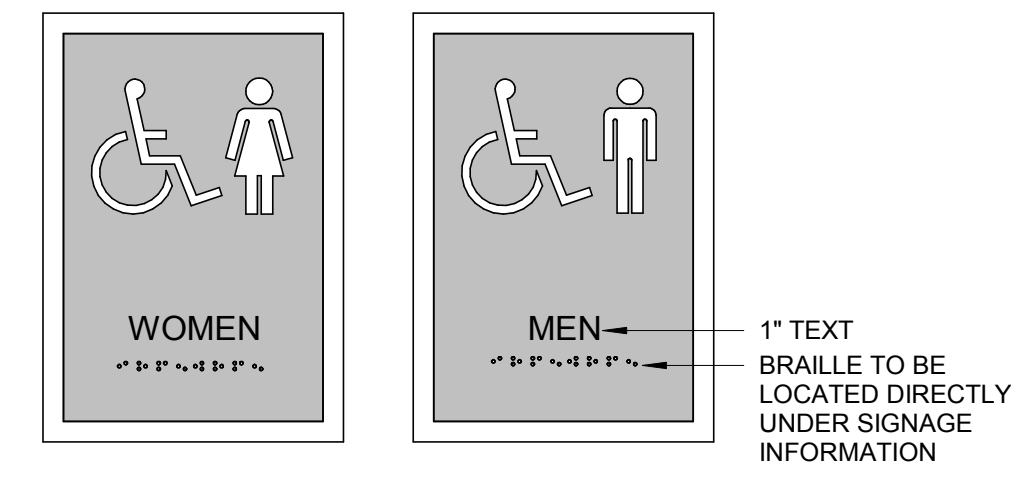
SIGNAGE TYPE SCHEDULE										
SIGN DESIGNATION	SIGN TYPE	LOCATION	CODE REFERENCE	VISUAL CHARACTERS	TACTILE	BRAILLE	PICTOGRAM	INT'L SYMBOL OF ACCESSIBILITY	PLACEMENT	COMMENTS
A	TOILET ROOM	ACCESSIBLE TOILET ROOMS	IBC 2902.4 & 1110	YES	YES	YES	YES	YES		
B	TACTILE EXIT	DOORS AT: EXTERIOR EXIT DOORS, EXIT STAIRS & RAMP, EXIT PASSAGEWAYS, AREAS OF REFUGE, AND EXTERIOR AREAS FOR RESCUE ASSISTANCE	IBC 1011.4	YES	YES	YES	NO	NO		
C	STAIR IDENTIFICATION	INSIDE STAIR ENCLOSURE AT EACH STAIR LANDING	IBC 1022.9	YES	YES	YES	NO	NO	VISIBLE WHEN DOOR IS OPEN OR CLOSED	
D	ROOM IDENTIFICATION SIGN	OUTSIDE ROOM	ADAAG 216.2	YES	YES	NO	NO	NO		ROOM SIGNS ARE NOT REQUIRED, BUT IF PROVIDED THEY MUST MEET REQUIREMENTS
E	IN CASE OF FIRE	ELEVATORS	IBC 3002.3	YES	NO	NO	YES	NO	ABOVE EACH ELEVATOR CALL BUTTON	NOT USED AT ENTRY LEVEL & ELEVATORS PART OF AN ACCESSIBLE MEANS OF EGRESS OR USED FOR SELF-EVACUATION
F	ELEVATOR FLOOR INDICATOR	ELEVATORS	ICC A117.1 407.2.3	YES	YES	YES	NO	NO	BOTH ELEVATOR JAMBS	
G	ASSISTIVE LISTENING SYSTEM	ASSEMBLY SPACES WITH ASSISTIVE LISTENING SYSTEM	IBC 1110.3 & 1108.2.7	YES	NO	NO	YES	NO	NEAR ENTRANCE TO ROOM	PICTOGRAM TO BE INTERNATIONAL SYMBOL OF ACCESS FOR HEARING LOSS
H	MAXIMUM OCCUPANCY	ASSEMBLY OCCUPANCY SPACES	IBC 1004.3	YES	NO	NO	NO	NO	CONSPICUOUS PLACE NEAR MAIN DOOR	MAXIMUM OCCUPANCY OF ROOM PER CODE PLAN
I	2-WAY COMMUNICATION	ADJACENT TO 2-WAY COMMUNICATION DEVICES	IBC 1007.8.2 & 1007.11	YES	NO	NO	YES	NO	ADJACENT TO 2-WAY COMMUNICATION DEVICES	
J	ACCESSIBLE ENTRANCE	ENTRANCES WHERE NOT ALL ARE ACCESSIBLE	IBC 1110.1	YES	NO	NO	NO	YES	BUILDING ENTRANCES	
K	AREA OF REFUGE	AREAS OF REFUGE & EXTERIOR AREAS FOR EVACUATION ASSISTANCE	IBC 1007.9 & 1007.10	YES	NO	NO	NO	YES	OUTSIDE AREAS OF REFUGE: DIRECTIONAL SIGN AT NON-ACCESSIBLE EXITS	
L	RATED WALL	ABOVE CEILING AT ALL RATED WALLS	IBC 703.7	YES	NO	NO	NO	NO	WITHIN 15' OF END OF WALL & 30' O.C. ALONG LENGTH OF WALL	NOT REQUIRED IN R-2 OCCUPANCY WHERE CEILING IS NOT ACCESSIBLE
M	LOCKED DOOR	MAIN ENTRY DOORS WITH LOCKS	IBC 1008.1.9.3	YES	NO	NO	NO	NO	DOOR FRAME ABOVE DOOR	ALLOWED AT MAIN DOORS OF GROUP A WITH A MAXIMUM OCCUPANT LOAD OF 300 AND GROUP B, F, M & S
N	ACCESSIBLE PARKING	ACCESSIBLE PARKING STALLS	IBC 1110.1 & ICC A117.1 502.7	YES	NO	NO	NO	YES	POST OR BUILDING-MOUNTED CENTERED ON PARKING SPACE, 5'-0" TO BOTTOM OF SIGN	
O	ACCESSIBLE PARKING PAVEMENT MARKING	ACCESSIBLE PARKING STALLS	NA	YES	NO	NO	NO	YES	CENTERED ON PARKING STALL, ALIGNED WITH FRONT	NOT REQUIRED BY CODE
P	STOP SIGN	AS INDICATED ON PLANS	NA	YES	NO	NO	NO	NO	POST-MOUNTED, 5'-0" TO BOTTOM OF SIGN	SEE PLAN FOR SIGN CONTENT
Q	TRAFFIC	AS INDICATED ON PLANS	NA	YES	NO	NO	NO	NO	POST OR BUILDING-MOUNTED, 5'-0" TO BOTTOM OF SIGN	
R	NO SMOKING	BUILDING ENTRIES	NA	YES	NO	NO	YES	NO	CONSPICUOUS PLACE NEAR DOOR	REQUIRED FOR LEED

NOTES:

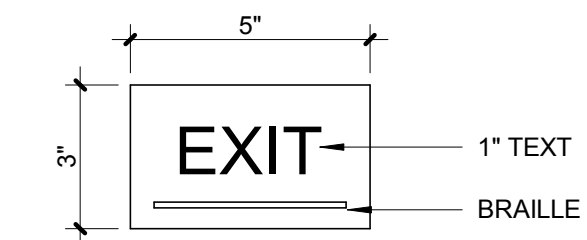
1. VISUAL CHARACTERS TO COMPLY WITH ICC A117.1 703.2 & ADAAG 703.5
2. TACTILE CHARACTERS TO COMPLY WITH ICC A117.1 703.3 & ADAAG 703.2
3. BRAILLE CHARACTERS TO COMPLY WITH ICC A117.1 703.4 & ADAAG 703.3
4. PICTOGRAMS TO COMPLY WITH ICC A117.1 703.5 & ADAAG 703.6
5. SYMBOLS OF ACCESSIBILITY TO COMPLY WITH ICC A117.1 703.6 & ADAAG 703.7
6. MOUNT SIGNS 1'-6" FROM LATCH-SIDE DOOR JAMB TO CENTER OF SIGN UNLESS OTHERWISE NOTED.
7. MOUNT SIGNS 5'-0" AFF TO TOP UNLESS OTHERWISE NOTED.



(H) MAXIMUM OCCUPANCY SIGN
3" = 1'-0"



(A) TOILET ROOM SIGNS
1 1/2" = 1'-0"



(B) TACTILE EXIT SIGN
3" = 1'-0"

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APPROVED: OZ
DATE: 2018-04-27

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SHEET TITLE: SIGN TYPES

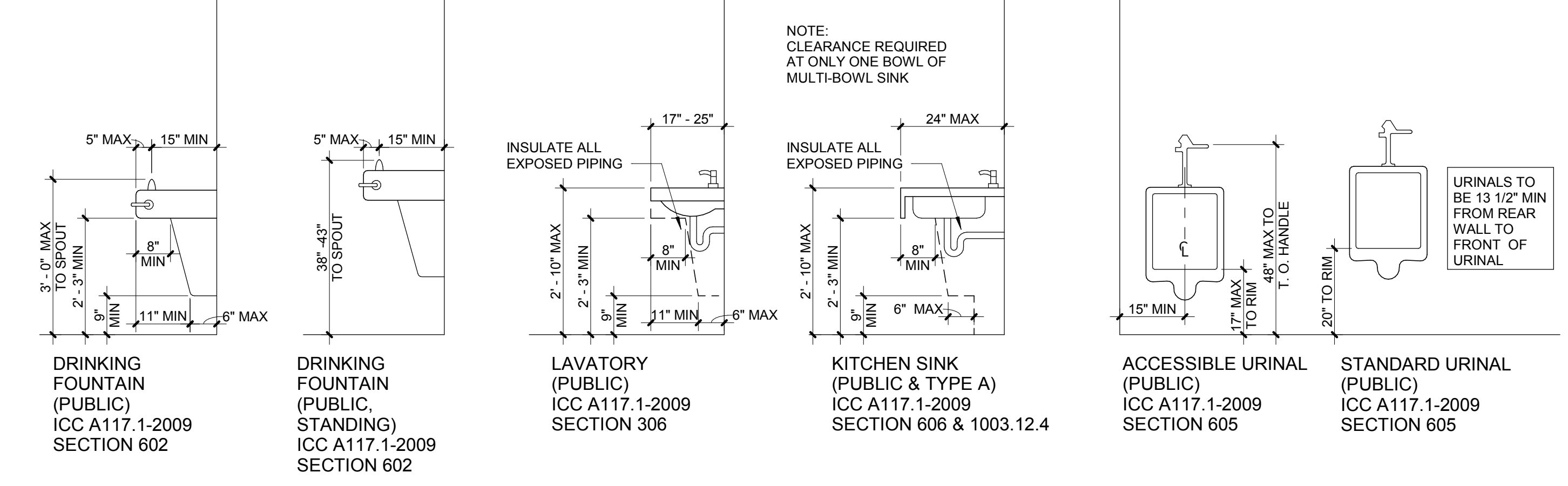
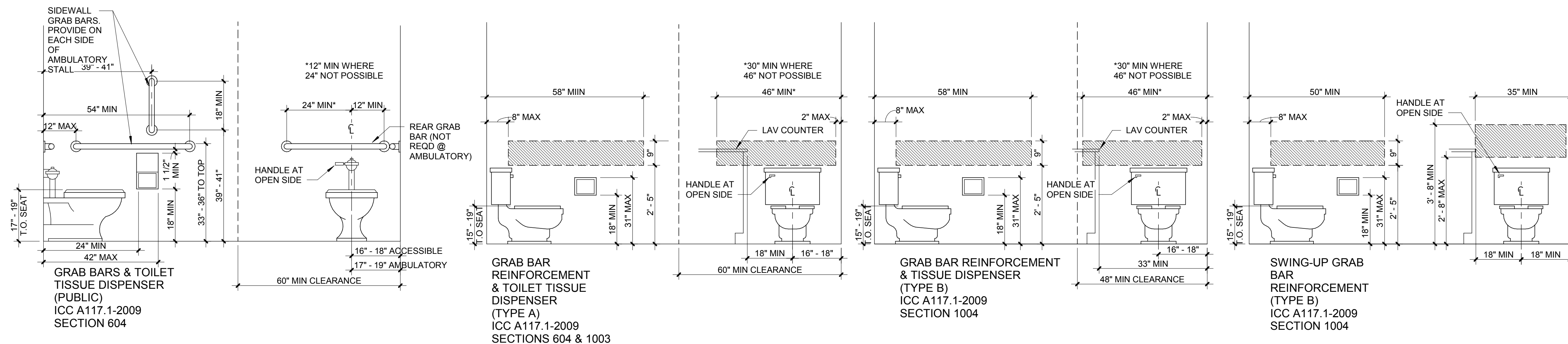
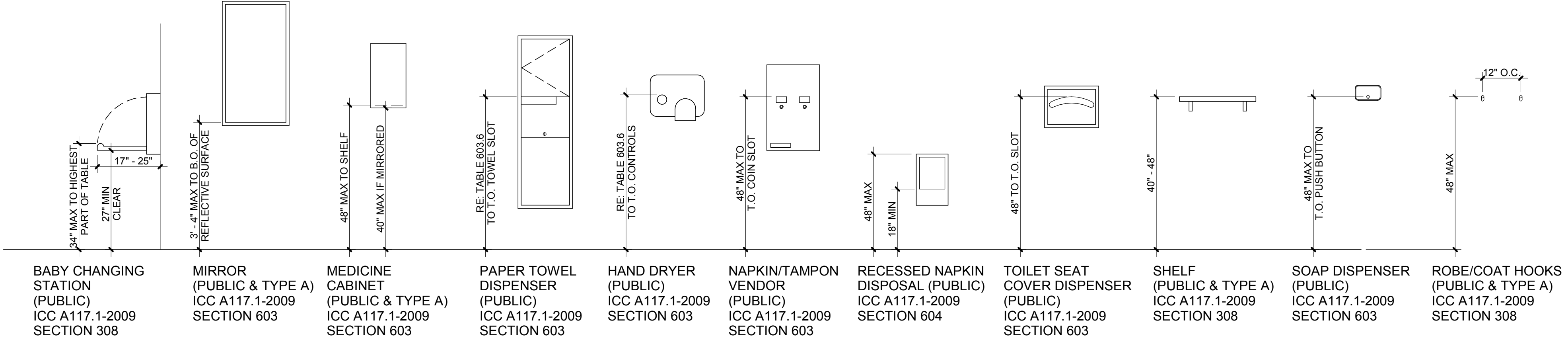
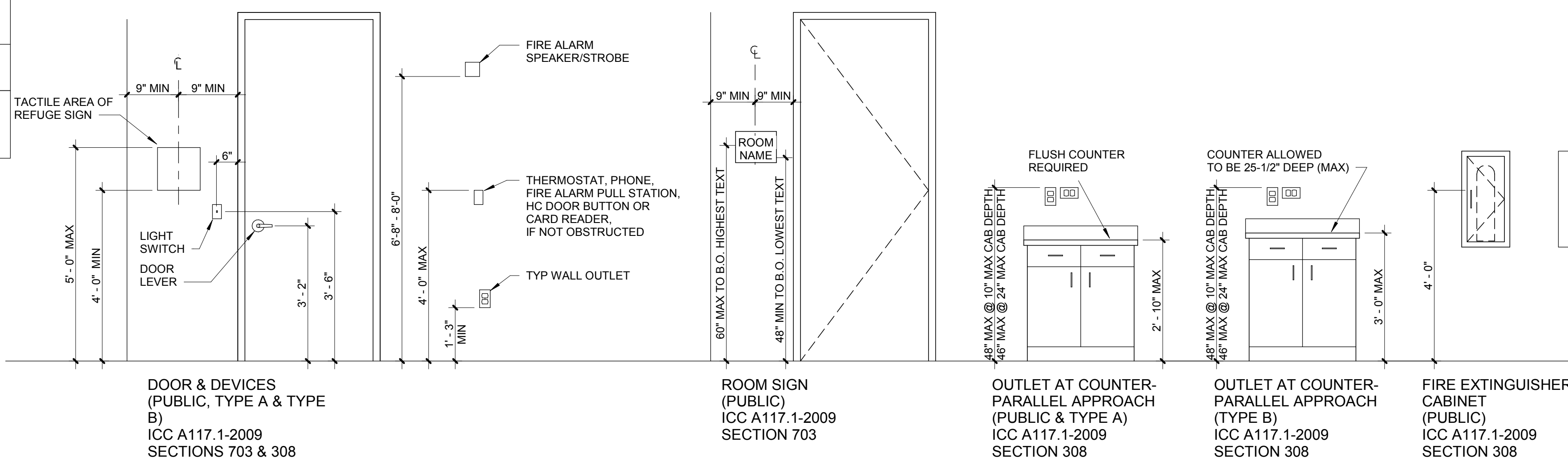
SCALE: As indicated
SHEET NUMBER

G-201

ICC/ANSI A117.1-2009 TABLE 603.6 MAXIMUM REACH DEPTH AND HEIGHT						
MAXIMUM REACH DEPTH	0.5 INCH (13 MM)	2 INCHES (51MM)	5 INCHES (125MM)	6 INCHES (150 MM)	9 INCHES (230MM)	11 INCHES (288 MM)
MAXIMUM REACH HEIGHT	48 INCHES (1220 MM)	46 INCHES (1170 MM)	42 INCHES (1065 MM)	40 INCHES (1015 MM)	36 INCHES (915 MM)	34 INCHES (865 MM)

GENERAL NOTES

- DIMENSIONS ARE COMPLIANT WITH ICC A117.1-2009.
- NOT ALL FIXTURES AND DEVICES INDICATED MAY BE USED IN THE PROJECT.
- MOUNTING HEIGHTS INDICATED MAY BE SUPERCEDED BY MORE SPECIFIC INFORMATION ELSEWHERE IN THE DOCUMENTS.
- "PUBLIC" INDICATES ELEMENTS TO COMPLY IN PUBLIC AREAS. "TYPE A" INDICATES ELEMENTS TO COMPLY IN ACCESSIBLE PORTIONS OF TYPE A UNITS. "TYPE B" INDICATES ELEMENTS TO COMPLY IN ACCESSIBLE PORTIONS OF TYPE B UNITS.
- PROVIDE BLOCKING / REINFORCEMENT FOR ALL ACCESSORIES PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE BLOCKING / REINFORCEMENT FOR FUTURE INSTALLATION OF GRAB BARS IN ACCESSIBLE BATHROOMS OF "TYPE A" & "TYPE B" UNITS. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS & SHALL WITHSTAND A VERTICAL OR HORIZONTAL FORCE OF 250 LBS APPLIED TO ANY POINT ON THE GRAB BAR, FASTENER, MOUNT, OR SUPPORT.
- SHOWER & BATHTUB SEATS SHALL WITHSTAND A VERTICAL OR HORIZONTAL FORCE OF 250 LBS APPLIED TO ANY POINT ON THE SEAT, FASTENER, MOUNT OR SUPPORT.
- ALL APPLIANCES & PLUMBING FIXTURES MUST COMPLY WITH APPLICABLE ANSI & ADA REQUIREMENTS. OPERABLE PARTS SHALL: 1) BE 34" - 48" AFF.; 2) BE OPERABLE WITH ONE HAND, 3) NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST, AND 4) BE ACTIVATED BY NO MORE THAN 5 LBS OF FORCE.
- DOOR THRESHOLDS MUST HAVE A MAXIMUM HEIGHT OF 1/2" WITH A 1:2 BEVEL.



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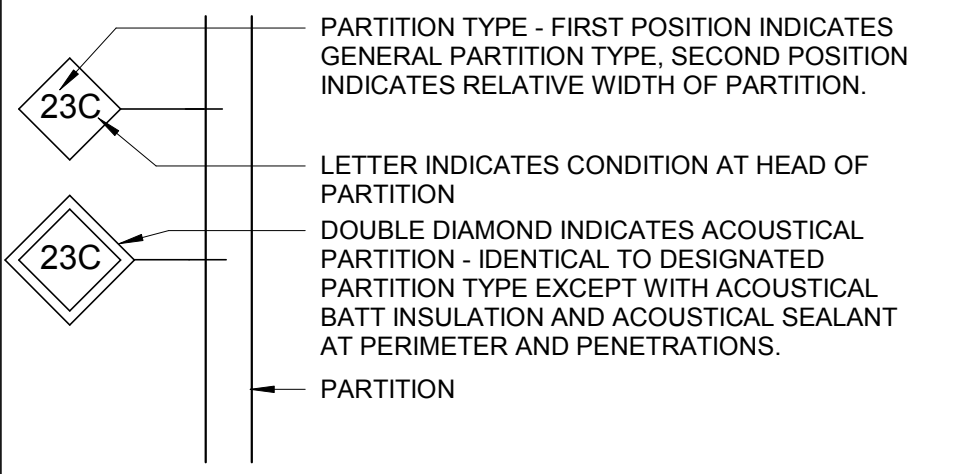
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STANDARD MOUNTING HEIGHTS - ANSI 2009

SCALE: 1/2" = 1'-0"
SHEET NUMBER

G-401

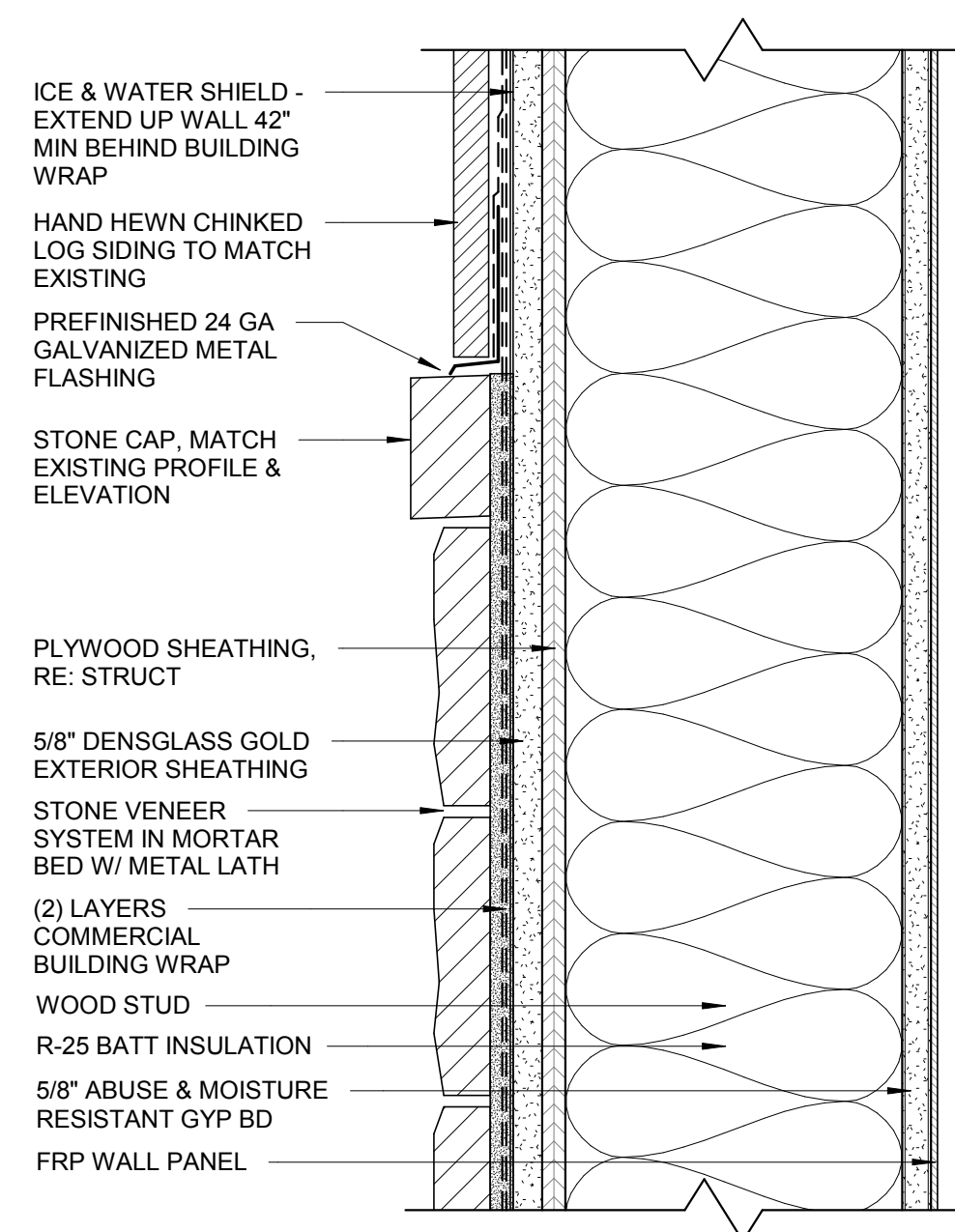
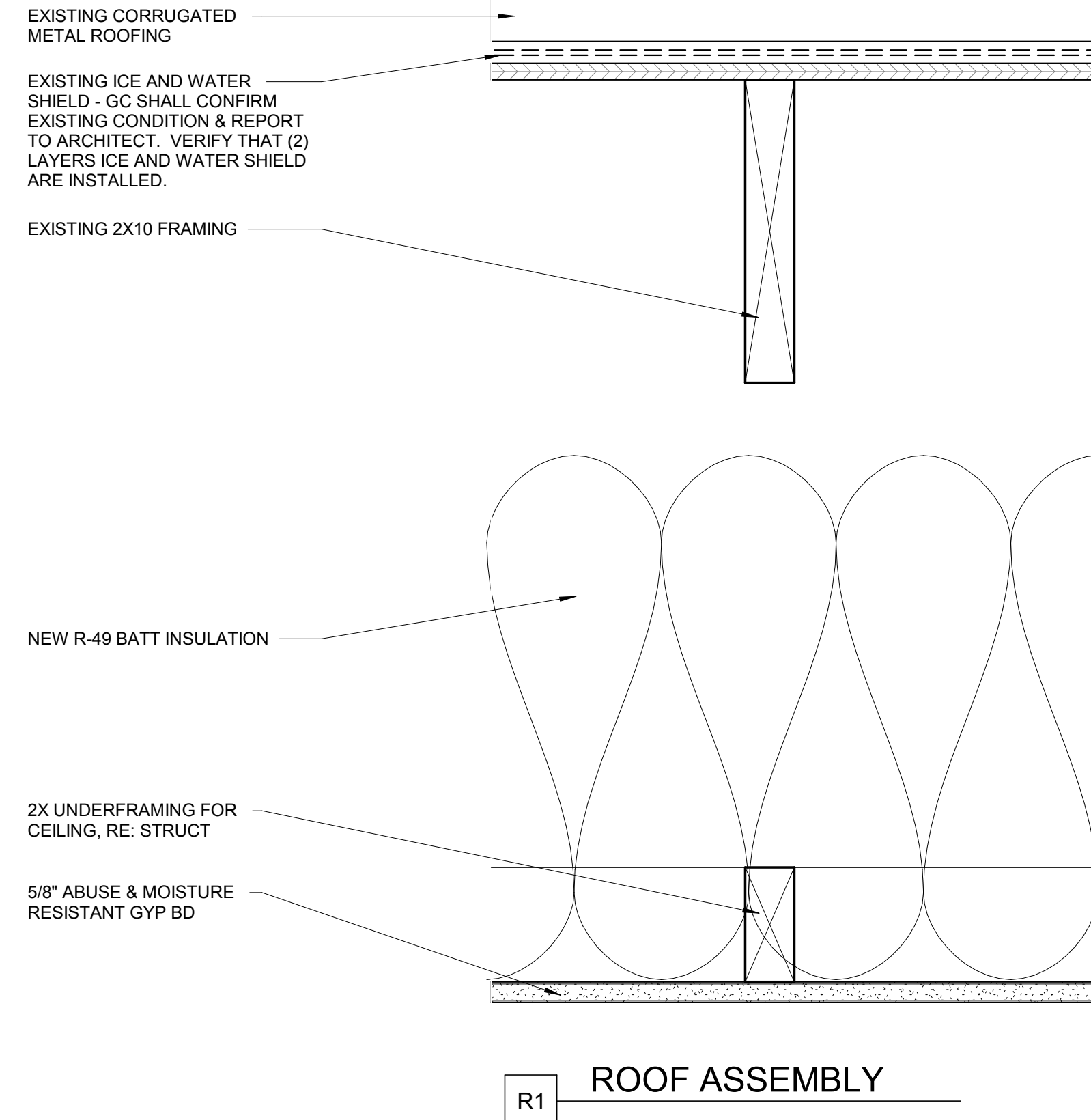
PARTITION TYPES - LEGEND

1. REFERENCE LEGEND, RE: FLOOR PLANS

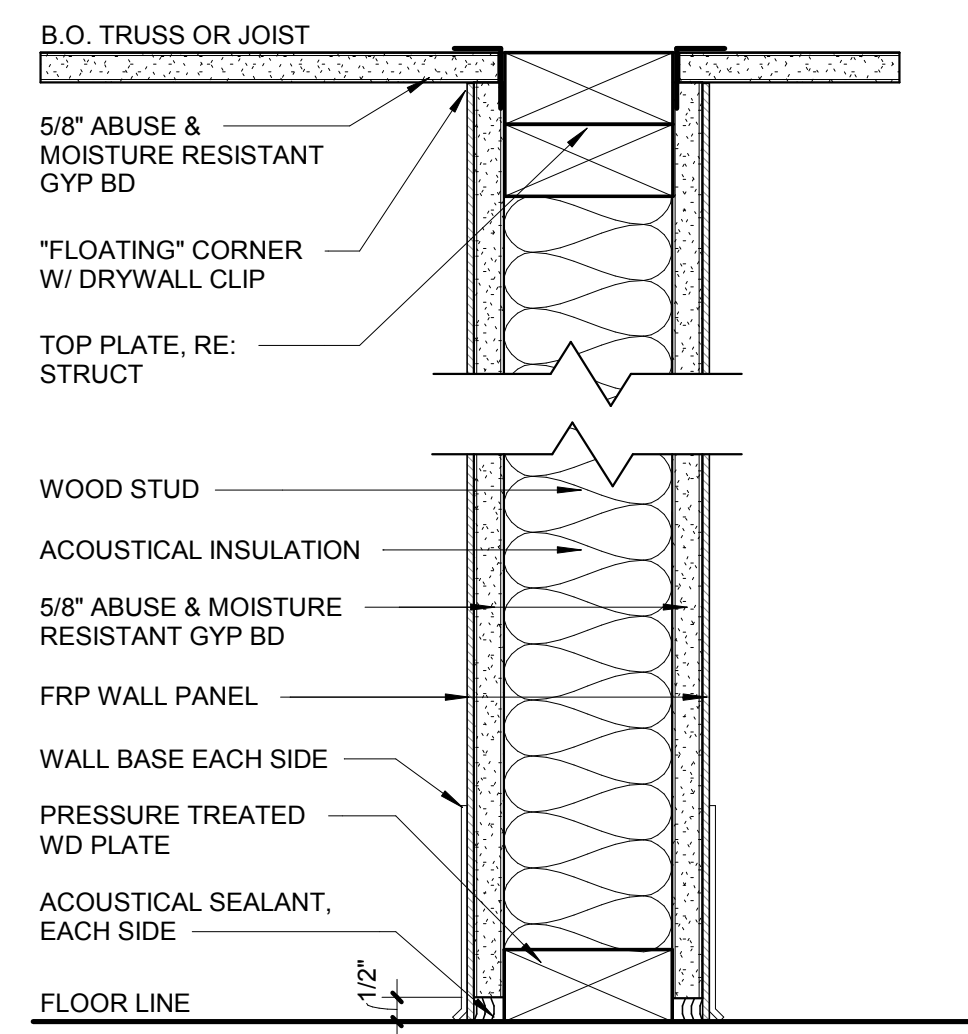


PARTITION TYPES GENERAL NOTES

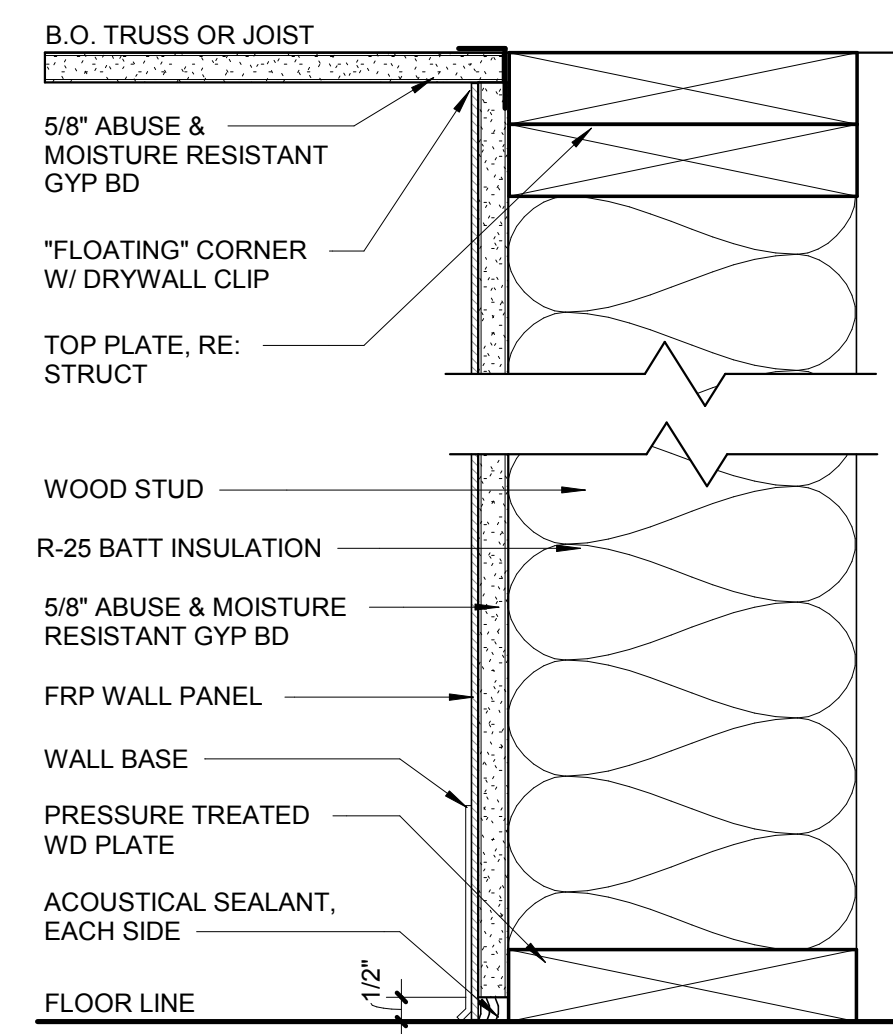
- NOT ALL PARTITION TYPES DELINEATED MAY BE USED.
- SEE FLOOR PLANS (A-100 SERIES SHEETS) FOR DESIGNATION OF PARTITION TYPES.
- SEE CODE PLANS (G-100 SERIES SHEETS) FOR FIRE RATINGS OF PARTITIONS.
- PARTITIONS ARE TO EXTEND TO UNDERSIDE OF STRUCTURE, UNO.
- WHERE TWO DIFFERING PARTITION TYPES ABUT IN A LINE AND ALONG A CONTINUOUS LENGTH OF PARTITIONS, THE CONTINUOUS FINISHED SURFACES OF THESE PARTITIONS SHALL ALIGN, UNO.
- STUD SPACING TO BE 24" O.C. UNO. SEE STRUCTURAL FOR BEARING WALL REQUIREMENTS.
- PROVIDE PARTITIONS TO MEET MAXIMUM ALLOWABLE DEFLECTION OF L/240 WITH 5 P.S.F. LATERAL LOAD. MAXIMUM ALLOWABLE DEFLECTION FOR PARTITIONS TO RECEIVE TILE SHALL BE L/360. MAXIMUM ALLOWABLE DEFLECTION FOR PARTITIONS TO RECEIVE STONE SHALL BE L/720. ADJUST STUD SPACING, GAGE OR GRADE AS REQ'D.
- PROVIDE FOR 1" DEFLECTION AT ALL PARTITION HEADS, UNO. AT METAL STUD FRAMED WALLS PROVIDE MINIMUM 3" DEEP-LEG TRACKS.
- WOOD-FRAMED PARTITION HEADS ARE CONDITION "C" OR "G" UNO. PROVIDE DOUBLE WOOD STUDS AT EACH DOOR JAMB IN WOOD-FRAMED PARTITIONS.
- DO NOT PLACE GYPSUM BOARD JOINT AT CORNER OF DOOR FRAME.
- USE 5/8" TYPE-X GYPSUM BOARD AT FIRE-RATED PARTITIONS UNO OR CALLED FOR BY LISTED ASSEMBLY. USE 5/8" GYPSUM BOARD AT ALL OTHER LOCATIONS UNO.
- USE WATER-RESISTANT GYPSUM BOARD FOR PARTITIONS IN TOILET ROOMS AND JANITOR'S CLOSETS.
- USE WATER-RESISTANT GLASS-MAT GYPSUM BOARD FOR CEILINGS IN SHOWER ROOMS. COMPLY WITH IBC CHAPTER 25.
- USE WATER-RESISTANT GLASS-MAT GYPSUM BOARD OR CEMENTITIOUS BACKER UNITS AND SPACE STUDS AT 16" O.C. AT PARTITIONS TO RECEIVE TILE OR STONE.
- PARTITIONS THAT DO NOT GO TO STRUCTURE ABOVE SHALL HAVE INTERSECTING PARTITION OR BE BRACED TO STRUCTURE @ 12" O.C.
- PROVIDE CONTROL JOINTS IN CEILINGS EXCEEDING 2500 S.F. AND IN PARTITIONS AND FURRING RUNS EXCEEDING 30 FT. IN LENGTH. VERIFY EXACT LOCATIONS WITH ARCHITECT. SEE DETAILS THIS SHEET.
- FIRE-RESISTIVE PARTITIONS SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH TESTING REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS FOR CONDITIONS AS REQUIRED.
- CONSTRUCTION OF ALL SYSTEMS SHALL EQUAL THAT OF THE TESTED ASSEMBLY. GC MAY SUBSTITUTE ANOTHER LISTED ASSEMBLY FOR THAT INDICATED WITH PRIOR APPROVAL OF THE AUTHORITY HAVING JURISDICTION AND THE ARCHITECT.
- TESTING FACILITIES ARE ABBREVIATED AS FOLLOWS:
 - FM - FACTORY MUTUAL
 - GA - GYPSUM ASSOCIATION
 - NER - NATIONAL EVALUATION REPORT
 - UL - UNDERWRITERS LABORATORIES INC.
 - WHI - WARNOCK HERSEY INTERNATIONAL
- THROUGH-PENETRATIONS AND MEMBRANE-PENETRATIONS IN FIRE-RATED PARTITIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH IBC CHAPTER 7.
- PROVIDE ACOUSTICAL SEALANT AT ALL PENETRATIONS IN ACOUSTICAL PARTITIONS.
- ACOUSTICAL BATT INSULATION TO TERMINATE AT THE STRUCTURE UNO.
- CONCEALED SPACES IN COMBUSTIBLE CONSTRUCTION TO BE FIRE-BLOCKED IN ACCORDANCE WITH IBC CHAPTER 7.



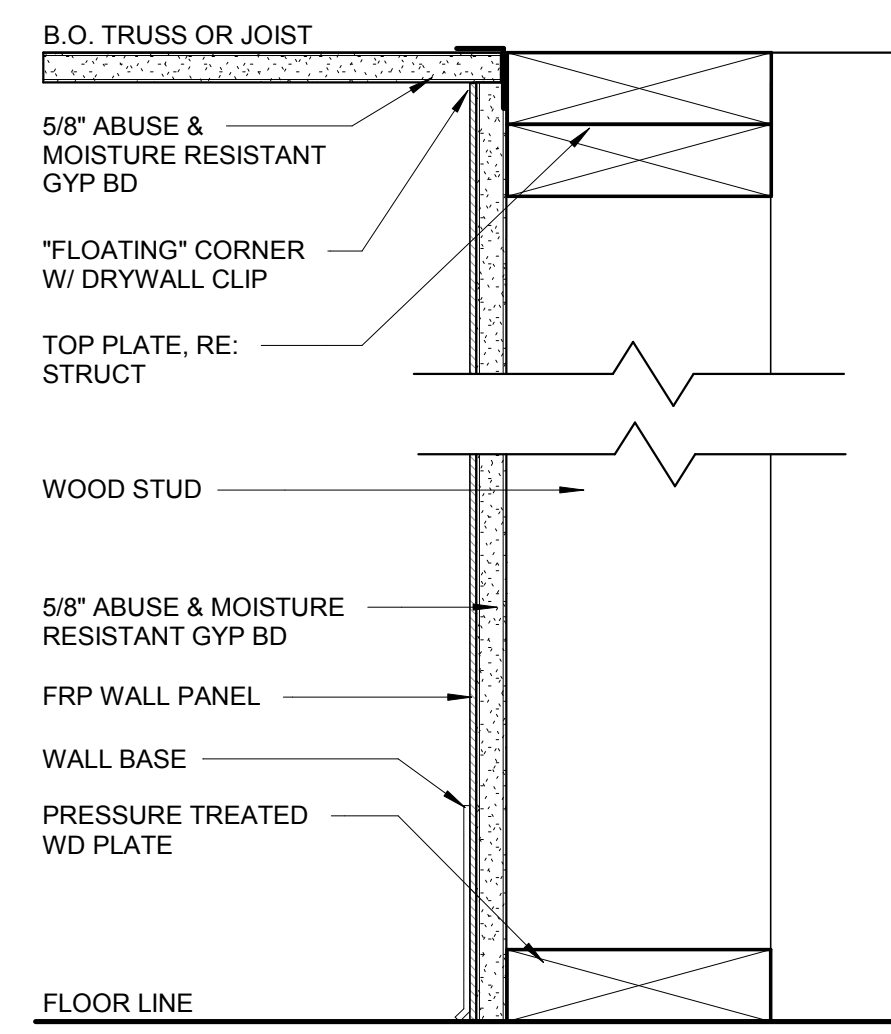
E1 EXTERIOR WALL ASSEMBLY
WITH 2x8 STUDS



W24 PARTITION
WITH 2x4 STUDS



W30 PARTITION - FURRING WALL
WITH 2x8 STUDS



W35 PARTITION - FURRING WALL
WITH 2x6 STUDS

1 PARTITION TYPES
3" = 1'-0"

CIVIL ENGINEER
 MARTIN/MARTIN CONSULTING ENGINEERS, INC.
 0101 FAWCETT ROAD, STE 260
 AVON, CO 81620
 PHONE: 970-926-6007
 CONTACT: MARK LUNA, P.E.

FRISCO DAY LODGE FRISCO PENINSULA RECREATION AREA TOWN OF FRISCO, COUNTY OF SUMMIT, STATE OF COLORADO



PRJ #: MC18.0378



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MARTIN/MARTIN, INC. GENERAL NOTES:

IN ADDITION TO THE TOWN OF FRISCO [T.O.F.] STANDARD NOTES, THE FOLLOWING SHALL APPLY:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE T.O.F. STANDARDS AND SPECIFICATIONS [LATEST REVISION]. ALL WATER & SEWER MAIN CONSTRUCTION SHALL BE SUBJECT TO T.O.F. INSPECTION.
2. THE CONTRACTOR SHALL HAVE ONE [1] SIGNED COPY OF PLANS APPROVED BY THE T.O.F. AS ONE COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES.
3. CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER AND THE T.O.F. [48]-HOURS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE T.O.F. ENGINEERING INSPECTOR [48]-HOURS PRIOR TO START OF WORK.
4. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING, BUT NOT LIMITED TO, SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, TRENCH EXCAVATION AND SHORING, TRAFFIC CONTROL AND SECURITY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
5. THE T.O.F./OWNER/ENGINEER CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.
6. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION [OSHA] "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION." THESE REGULATIONS ARE DESCRIBED IN SUBPART P, PART 1926 OF THE CODE OF FEDERAL REGULATIONS. SHEETING AND SHORING SHALL BE UTILIZED WHERE NECESSARY TO PREVENT ANY EXCESSIVE WIDENING OR SLOUGHING OF THE TRENCH WHICH MAY BE DETRIMENTAL TO HUMAN SAFETY, TO THE PIPE BEING PLACED, OR TO ANY EXISTING SITE IMPROVEMENTS OR STRUCTURES. THE CONTRACTOR MAY BE REQUIRED TO USE AN APPROVED PILING INSTEAD OF SHEETING AND SHORING.
7. ALL TRENCH BACKFILL AND SUBGRADE PREPARATION SHALL BE TESTED TO ENSURE COMPLIANCE WITH GEOTECH STANDARDS AND SHALL BE TESTED AT T.O.F. REQUIRED FREQUENCIES BY A T.O.F. APPROVED PRIVATE SOILS TESTING FIRM. TEST RESULTS SHALL BE SUBMITTED TO, REVIEWED, AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLING APPROVED BACKFILL ON PREPARED SUBGRADE. ALL BASE COURSE DENSITY SHALL ALSO BE TESTED BY THE PRIVATE SOILS FIRM AT T.O.F. REQUIRED FREQUENCIES TO ENSURE COMPLIANCE WITH T.O.F. REQUIREMENTS. BASE COURSE TEST RESULTS SHALL ALSO BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO BACKFILLING. TEST RESULTS SHALL BE REVIEWED AND APPROVED BY THE T.O.F. ENGINEERING DIVISION PRIOR TO INITIATION OF THE REQUIRED [2] YEAR WARRANTY PERIOD.
8. CONTRACTOR SHALL CONFORM TO ALL FEDERAL, STATE AND LOCAL HEALTH AND SAFETY RULES AND REGULATIONS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS REQUIRED. REPAIR OF DAMAGED UTILITIES SHALL BE AT THE CONTRACTORS EXPENSE, INCLUDING BUT NOT LIMITED TO UNIDENTIFIED UNDERGROUND UTILITIES.
10. EXISTING FENCES, TREES, SIDEWALKS, CURBS AND GUTTERS, LANDSCAPING, STRUCTURES, AND IMPROVEMENTS DESTROYED, DAMAGED OR REMOVED DUE TO CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED OR RESTORED IN LIKE KIND AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE INDICATED ON THESE PLANS.
11. CONTRACTOR SHALL OBTAIN A STORMWATER CONSTRUCTION PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, PRIOR TO CLEARING, GRADING, OR EXCAVATING A SITE OF ONE-HALF ACRE OR MORE, OR LESS THAN ONE-HALF ACRE AND PART OF A LARGER DEVELOPMENT. A COPY OF THE APPROVED PERMIT MUST BE SUBMITTED TO THE T.O.F. PRIOR TO THE START OF CLEARING, GRADING OR EXCAVATING OF THE SITE. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
12. IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION AND DEWATERING FROM THE TRENCH TO STORM SEWER, CHANNEL, IRRIGATION DITCH OR ANY WATERS OF THE UNITED STATES IS NECESSARY, THE CONTRACTOR SHALL OBTAIN A COLORADO STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT WHERE A COPY OF THE APPROVED PERMIT MUST BE SUBMITTED TO THE T.O.F. PRIOR TO THE START OF ANY DEWATERING. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STORM RUNOFF AND ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ADJUTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. NO CONCRETE SHALL BE PLACED WHERE GROUNDWATER IS VISIBLE OR UNTIL THE GROUNDWATER TABLE HAS BEEN LOWERED BELOW THE PROPOSED IMPROVEMENTS. ANY UNSTABLE AREAS, AS A RESULT OF GROUNDWATER, ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE STABILIZED AS AGREED UPON BY THE CONTRACTOR, THE T.O.F., AND THE GEOTECHNICAL ENGINEER AT THE TIME OF OCCURRENCE. REFER TO THE DETAILS WITHIN THIS PLAN SET FOR REQUIRED TRENCH BEDDING IN THE EVENT GROUNDWATER IS ENCOUNTERED IN THE WATER LINE TRENCH.
14. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ELEVATIONS OF ALL EXISTING WATER MAINS AND OTHER IMPROVEMENTS AT THE POINT OF CONNECTION SHOWN ON THE PLANS, AND AT ANY UTILITY CROSSINGS PRIOR TO INSTALLING ANY OF THE NEW IMPROVEMENTS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO MODIFY THE DESIGN.
- 15.
16. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ALL UTILITIES AND COORDINATE SCHEDULES.
17. ALL PUBLIC IMPROVEMENT WORK, INCLUDING CORRECTION WORK, SHALL BE INSPECTED BY A T.O.F. REPRESENTATIVE WHO SHALL HAVE THE AUTHORITY TO HALT CONSTRUCTION WHEN STANDARD CONSTRUCTION PRACTICES ARE NOT BEING ADHERED TO. THE T.O.F. RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS. CONTRACTOR IS RESPONSIBLE FOR BEING AWARE OF, NOTIFYING, COORDINATING AND SCHEDULING ALL INSPECTIONS REQUIRED FOR FINAL APPROVALS AND PROJECT ACCEPTANCE.
18. RECORD DRAWINGS SHOWING ALL CHANGES FROM THE APPROVED CONSTRUCTION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER AND OWNER PRIOR TO INITIATION OF THE REQUIRED 2-YEAR WARRANTY PERIOD. THE RECORD DRAWINGS WILL CONSIST OF A MARKED-UP SET OF "ISSUED FOR CONSTRUCTION" DRAWINGS VERIFYING THE FOLLOWING:
 - ALL LENGTHS, SIZES, AND MATERIALS OF INSTALLED PIPE, MANHOLES, AND ANY OTHER IMPROVEMENT.
 - HORIZONTAL LOCATIONS EITHER BY STATION AND OFFSET, OR BY NORTHING AND EASTING COORDINATES OF ALL BENDS, VALVES, STUBS, PLUGS, TEES, ETC.
 - TOP OF PIPE ELEVATION AT REGULAR INTERVALS AND/OR FITTINGS FOR WATER LINES.
 - ANY OTHER VARIATIONS FROM THE CONSTRUCTION DOCUMENTS MUST BE CLEARLY NOTED AND DETAILED ON THE PLANS.
 - AS-BUILT FIELD NOTES, FROM WHICH THE AS-BUILT DRAWINGS ARE PREPARED, ARE TO BE PROVIDED AND STAMPED/SIGNED AND DATED BY A COLORADO REGISTERED PROFESSIONAL LAND SURVEYOR.
18. THE CONTRACTOR SHALL WARRANT ALL WORK TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF 2-YEARS FROM THE DATE OF ACCEPTANCE INTO THE WARRANTY PERIOD OF ALL CONSTRUCTION CALLED FOR BY THE PUBLIC IMPROVEMENTS AGREEMENT WITH THE T.O.F..
19. DURING CONSTRUCTION AND UPON COMPLETION OF CONSTRUCTION, THE SITE SHALL BE CLEANED AND RESTORED TO A CONDITION EQUAL TO, OR BETTER THAN, THAT WHICH EXISTED BEFORE CONSTRUCTION.
20. THE OWNER/DEVELOPER AND/OR THEIR ASSIGNS SHALL IMPLEMENT A ROUTINE AND DILIGENT MAINTENANCE PLAN TO MAINTAIN PROPER GRADING AND DRAINAGE.
21. MARTIN/MARTIN RECOMMENDS A GEOTECHNICAL ENGINEERING SITE REVIEW AND OBSERVES/TESTS ALL REQUIRED EXCAVATION AND BACKFILL COMPACTION. OWNER AND CONTRACTOR SHALL COORDINATE WITH THE GEOTECHNICAL REPRESENTATIVES.

Sheet List Table	
Sheet Number	Sheet Title
C-001	GENERAL NOTES
C-100	DEMOLITION PLAN
C-200	CIVIL SITE PLAN
C-201	CIVIL RESTROOM SITE AND GRADING PLAN
C-202	GRADING PLAN
C-400	STORM SEWER PLAN
C-500	EROSION CONTROL PLAN
C-501	EROSION CONTROL DETAILS
C-502	EROSION CONTROL DETAILS

EXISTING		PROPOSED
---	PROPERTY LINE	---
---	RIGHT-OF-WAY LINE	---
---	SECTION LINE	---
---	EASEMENT	---
////	RETAINING WALL	////
==	CURB & GUTTER	==
==	CURB & GUTTER (SPILL)	==
==	CURB & GUTTER (CATCH)	==
---5750---	CONTOURS	---5750---
	UTILITY CROSSING	⊕
---ST---	STORM SEWER	---ST---
⊕	STORM MANHOLE	⊕
---RD---	ROOF DRAIN	---RD---
⊠	STORM INLET	⊠
<	FLARED END SECTION	⊠
---SS---	SANITARY SEWER	---SS---
⊕	SANITARY MANHOLE	⊕
⊕	CLEAN OUT	⊕
---W---	WATER LINE	---W---
⊕	WATER VALVE	⊕
⊕	FIRE HYDRANT	⊕
⊕	WATER METER	⊕
---IR---	IRRIGATION LINE	---IR---
⊕	IRRIGATION CONTROL	⊕
---OHE---	OVERHEAD ELECTRIC	---OHE---
---	ELECTRIC LINE	---
⊕	LIGHT POLE	⊕
⊕	POWER POLE	⊕
⊕	ELECTRIC METER	⊕
---	TELEPHONE LINE	---
⊕	TELEPHONE PEDESTAL	⊕
---	CABLE TV	---
---	GAS LINE	---
---	FIBER OPTIC	---
⊕	MONITOR WELL	⊕
⊕	SIGN	⊕
→	DIRECTION OF FLOW	→
→	GRADING ARROW	→
⊕	DECIDUOUS TREE	⊕
⊕	EVERGREEN TREE	⊕
⊕	BUSH/SHRUB	⊕
⊕	SPOT ELEVATIONS	⊕
DRIVE	DRIVE	DRIVE



FRISCO DAY LODGE RENOVATION

**621 RECREATION WAY
FRISCO, CO 80443**

PROJ. NO. 117119.00
 DRAWN: M/M
 CHECKED: M/M
 APPROVED: M/M
 DATE: 2018-04-27

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SHEET TITLE:
 GENERAL NOTES

SCALE: PER PLAN
 SHEET NUMBER

C-001



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PLOT DATE: Thursday, April 26, 2018 11:59 AM LAST SAVED BY: RJOHNSON DRAWING LOCATION: H:\MC18.0378-Frisco Peninsula Recreation Area\PLANS\CDs\GENERAL NOTES.dwg



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PROJ. NO. 117119.00
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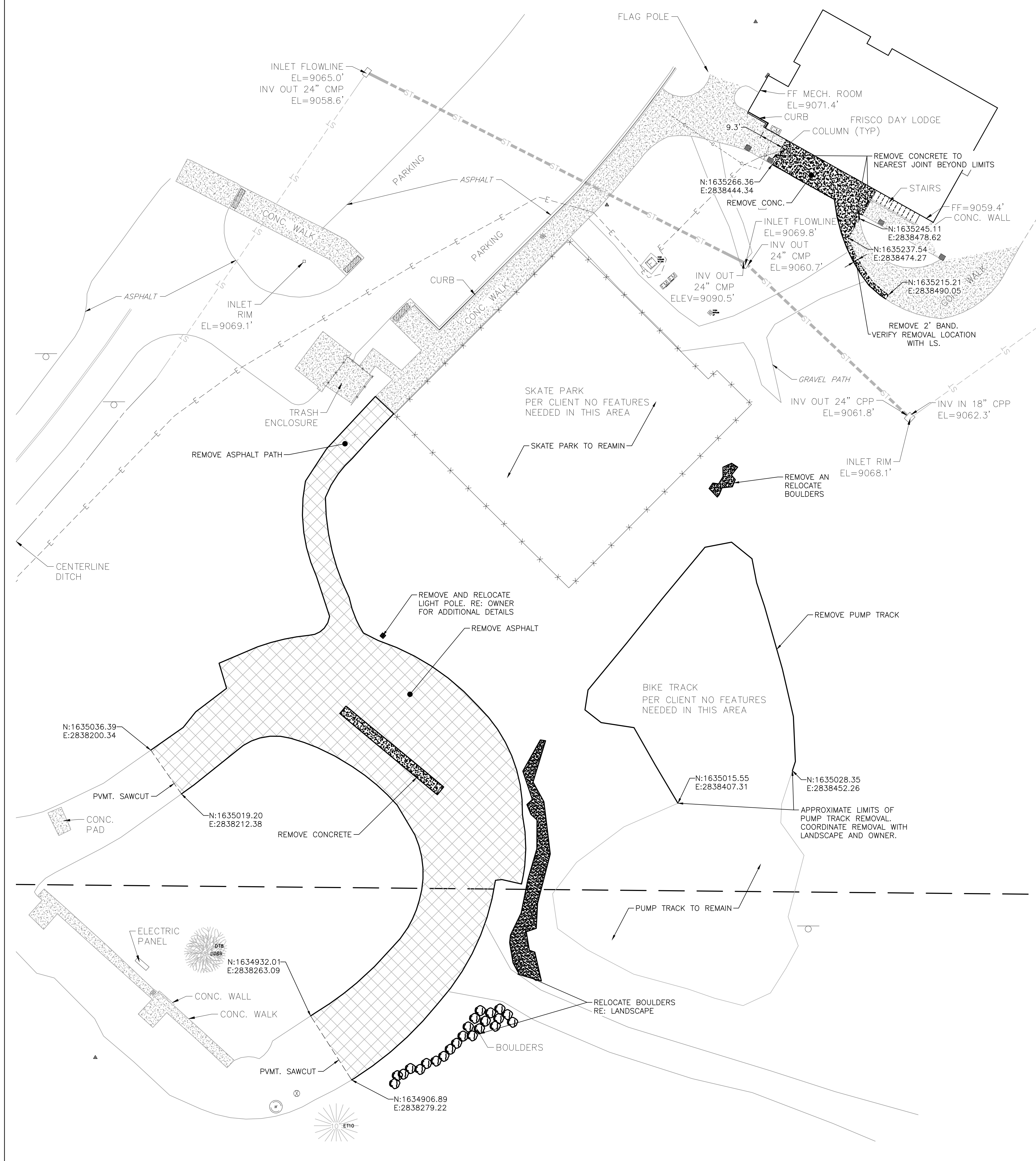
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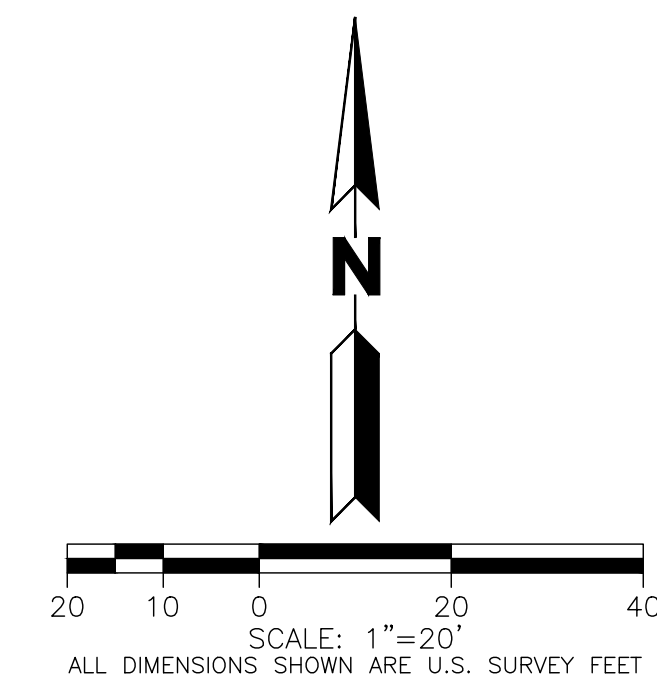
SHEET TITLE: DEMOLITION PLAN

SCALE: PER PLAN SHEET NUMBER
C-100

PLOT DATE: Thursday, April 26, 2018 11:59 AM LAST SAVED BY: RJOHNSON
 DRAWING LOCATION: H:\MC18.0378-Frisco Peninsula Recreation Area\PLANS\CDs\DEMO PLAN.dwg



EXISTING		DEMOLITION	
	PROPERTY LINE		DEMOLITION
	RIGHT-OF-WAY LINE		
	SECTION LINE		
	EASEMENT		
	RETAINING WALL		
	CURB & GUTTER		
	ASPHALT		
	CONCRETE/SIDEWALK		
	CONTOURS		
	STORM SEWER		
	STORM MANHOLE		
	STORM INLET		
	FLARED END SECTION		
	SANITARY SEWER		
	SANITARY MANHOLE		
	WATER LINE		
	WATER VALVE		
	FIRE HYDRANT		
	WATER METER		
	IRRIGATION LINE		
	IRRIGATION CONTROL		
	OVERHEAD ELECTRIC		
	ELECTRIC LINE		
	LIGHT POLE		
	POWER POLE		
	ELECTRIC METER		
	TELEPHONE LINE		
	TELEPHONE PEDESTAL		
	CABLE TV		
	SIGN		
	DECIDUOUS TREE		
	EVERGREEN TREE		
	BUSH/SHRUB		
	GAS LINE		
	DRIVE		



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SHEET TITLE: CIVIL SITE PLAN

SCALE: PER PLAN SHEET NUMBER

C-200

LEGEND

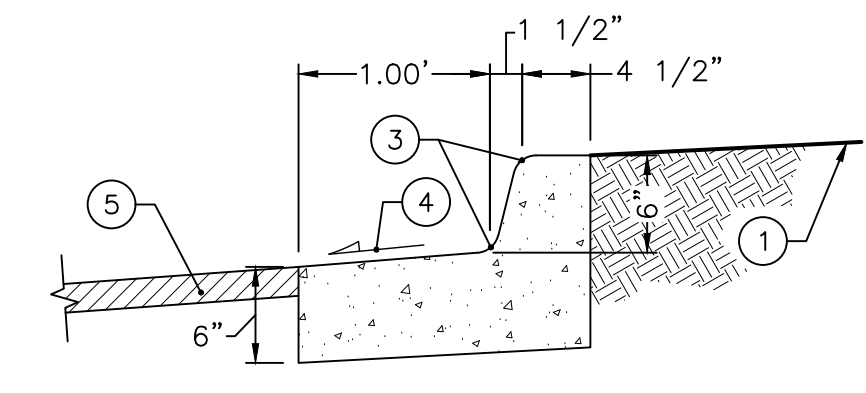
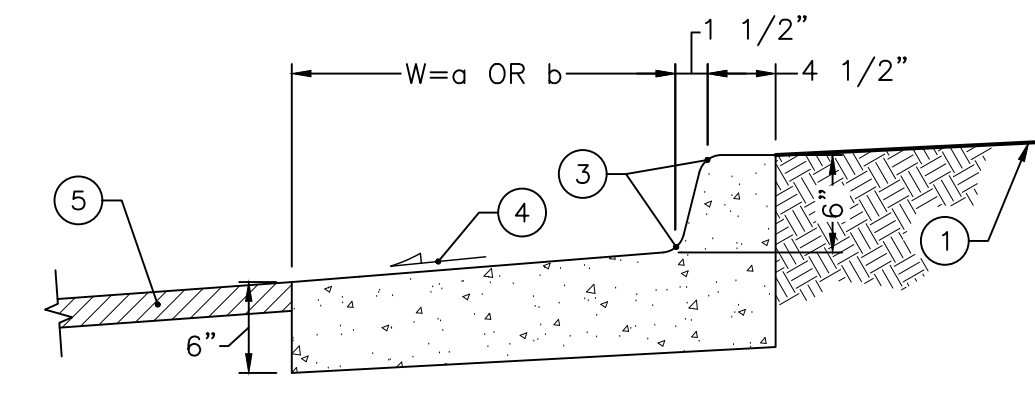
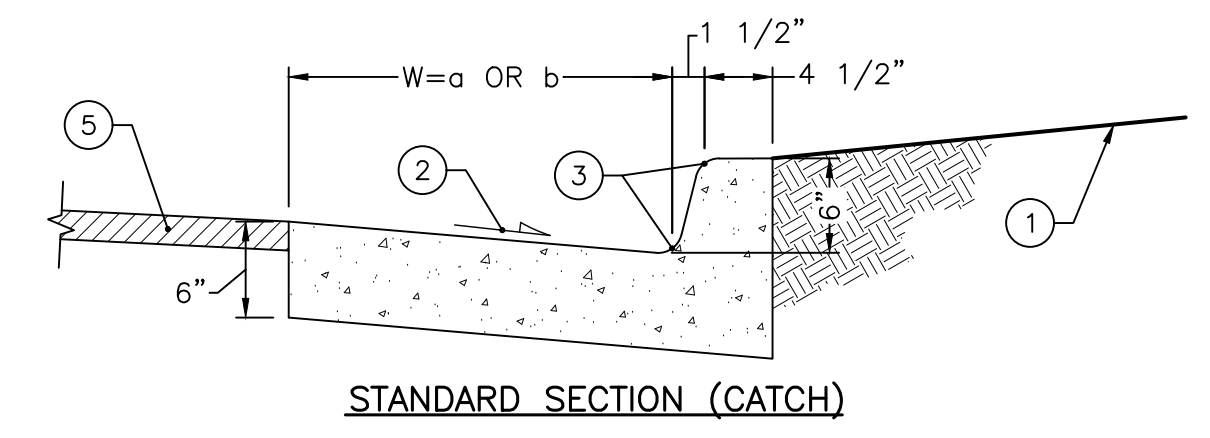
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---	---	SECTION LINE	---
---	---	EASEMENT	---
---	---	CURB & GUTTER	---
---	---	CURB & GUTTER (SPILL)	---
---	---	CURB & GUTTER (CATCH)	---
---	---	DRIVE	---

COLORED CONC: 6" CDOT CLASS B CONCRETE OVER 6" COMPACTED CLASS 6 BASE. OR MATCH EXISTING SECTION. RE: LS FOR COLOR INFORMATION

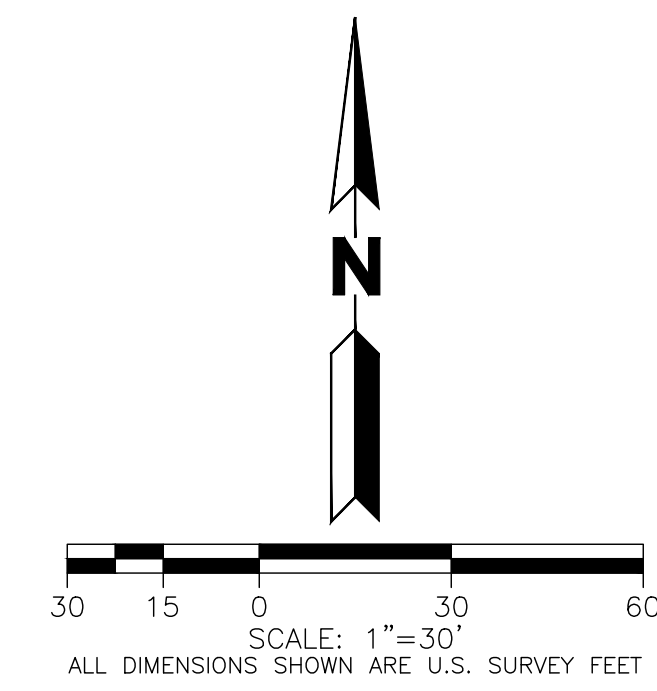
CONCRETE WALK: 6" CDOT CLASS B CONCRETE OVER 6" COMPACTED CLASS 6 BASE. OR MATCH EXISTING SECTION

PAVING SECTION NOTES:
1. PAVING SECTIONS TO BE VERIFIED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

- NOTES:**
1. BACKFILL, SEE DETAIL OF CUT/FILL SLOPE
 2. SLOPE AT 1" PER FOOT
 3. 1 1/2" RADIUS TYPICAL
 4. SLOPE AT 1/2" PER FOOT.
 5. PAVEMENT, SEE TYPICAL PAVEMENT SECTION
 6. W : a=1.50'
b=2.00'

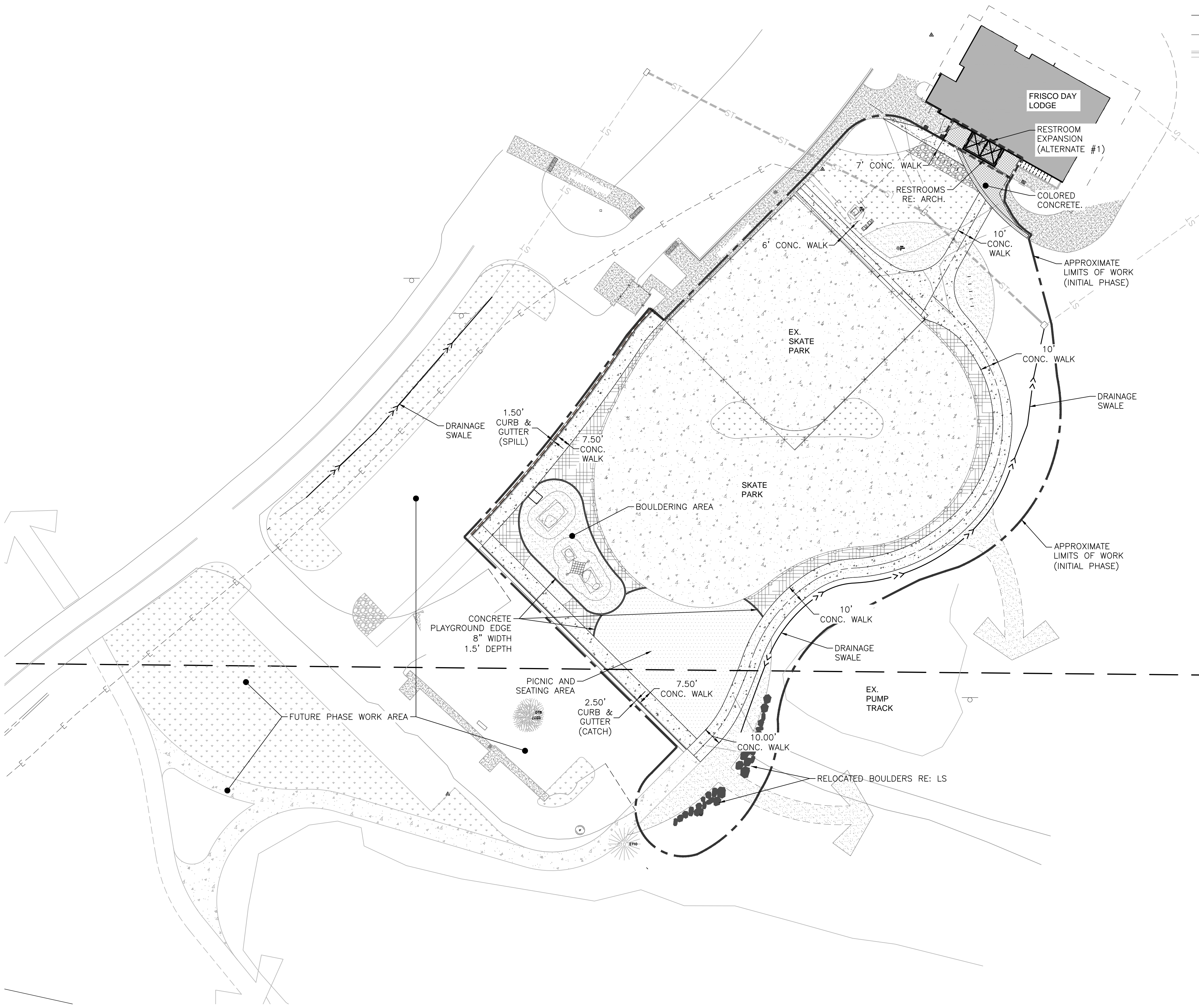


6 INCH VERTICAL CURB AND GUTTER
NOT TO SCALE
M/M 2009



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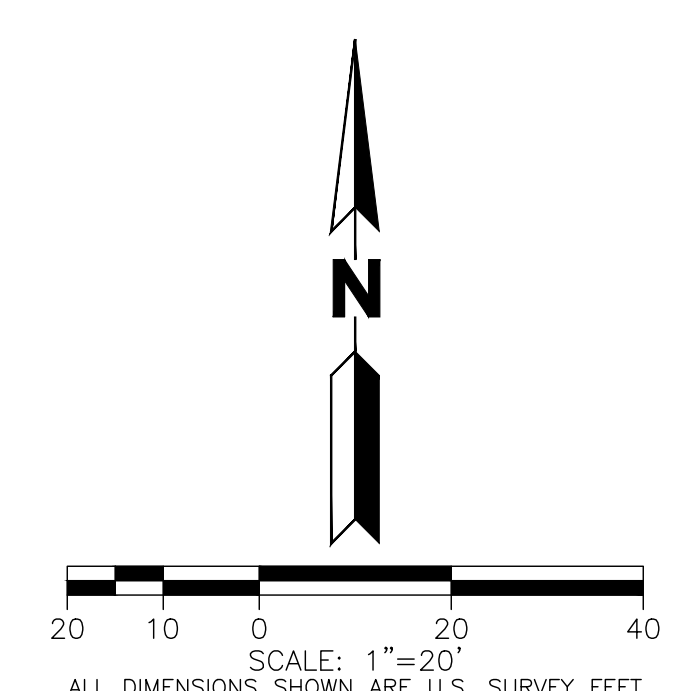
SHEET TITLE:
GRADING PLAN

SCALE: PER PLAN
SHEET NUMBER

C-201

GRADING NOTES:

1. ALL SITE GRADING [EXCAVATION, EMBANKMENT, AND COMPACTION] SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST GEOTECHNICAL INVESTIGATION FOR THIS PROPERTY AND SHALL FURTHER BE IN CONFORMANCE WITH THE TOWN OF FRISCO'S "STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS," LATEST EDITION.
2. ALL NEWLY CONSTRUCTED OR ALTERATIONS OF ACCESSIBILITY ROUTES (WALKS, RAMPS, ENTRANCES, ETC.) SHALL COMPLY WITH THE RULES AND REGULATIONS SET FORTH BY ADA, ADAAG, CITY, STATE, FEDERAL OR JURISDICTION HAVING AUTHORITY, INCLUDING BUT NOT LIMITED TO: 5% MAXIMUM GRADE ON WALKS WITHOUT HANDRAILS; 8.33% MAXIMUM GRADE ON WALKS WITH HANDRAILS AND LEVEL LANDINGS (MAXIMUM 2% COMPOSITE SLOPE); 2% MAXIMUM CROSS SLOPE ON WALKS AND 2% MAXIMUM COMPOSITE SLOPE IN HANDICAP PARKING/LOADING AREAS. NO TOLERANCE REGARDING MAXIMUM SLOPES WILL BE ALLOWED. DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE AS NECESSARY WITH OWNER, DEVELOPER, ENGINEER, ARCHITECT, OR DESIGNATED OFFICIAL IF RULES AND REGULATIONS OF ACCESSIBILITY ROUTES CAN NOT BE MET. IN ADDITION, OWNER IS ADVISED THAT REGULAR MAINTENANCE PROGRAMS SHOULD BE IMPLEMENTED AFTER CONSTRUCTION TO KEEP EXISTING ROUTES SAFE, USABLE, AND ADA COMPLIANT.
3. IT IS THE INTENTION OF THE PROJECT GRADING PLANS TO BE IN STRICT COMPLIANCE WITH, AND OR EXCEED, THE PROJECT'S GEOTECHNICAL ENGINEER'S GRADING RECOMMENDATIONS. IF THE CONTRACTOR BELIEVES A DEVIATION EXISTS BETWEEN THE PLANS AND THE GEOTECHNICAL RECOMMENDATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND REQUEST WRITTEN CLARIFICATION PRIOR TO PROCEEDING WITH WORK. THE GENERAL CONSTRUCTION SPECIFICATION IS THAT THE MOST RESTRICTIVE REQUIREMENT/RECOMMENDATION GOVERNS THE CONSTRUCTION OF THE PROJECT.
4. EXISTING ELEVATIONS SHOWN ON THIS DRAWING HAVE BEEN DEPICTED FROM BEST AVAILABLE INFORMATION AND ARE SHOWN TO THE EXTENT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING GRADE CONDITIONS AT THE LIMITS OF CONSTRUCTION AND AT LOCATIONS THAT INTERFACE WITH EXISTING OR PROPOSED STRUCTURES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT CONTRADICT THE ENGINEERS INTENT FOR DRAINAGE PATTERNS, MAXIMUM AND MINIMUM SLOPES, AND PROPOSED ELEVATIONS AS SHOWN ON THE PLAN. THE ENGINEER WILL NOT BE LIABLE FOR ANY COSTS ASSOCIATED WITH CHANGES TO THE DESIGN WITHOUT PROPER NOTIFICATION.
5. PROPOSED CONTOURS AND SPOT ELEVATIONS AS SHOWN HEREIN ARE DEFINED AS FINISHED ELEVATION AFTER PAVING, LANDSCAPING, ETC. CONTRACTOR SHALL COORDINATE WITH GEOTECH FOR PAVEMENT THICKNESS AND LANDSCAPE FOR THICKNESS OF TOPSOIL, SOD AND LANDSCAPE MATERIALS.
6. ALL SPOTS ARE TO FLOWLINE UNLESS OTHERWISE NOTED. FG = FINISHED GRADE, FF = FINISH FLOOR, TOP = TOP OF FOUNDATION, HP = HIGH POINT, LP = LOW POINT, TOW = TOP OF WALL [FINISHED GRADE AT BACK OF WALL], BOW = BOTTOM OF WALL [FINISHED GRADE AT FACE OF WALL], GB = GRADE BREAK, FL = FLOWLINE, TOC = TOP OF CURB.
7. TEMPORARY CUT/FILL SLOPES SHALL NOT EXCEED A STEEPNESS OF [1:1] (H:V). PERMANENT SLOPES SHALL NOT EXCEED [4:1] (H:V) [UNLESS NOTED OTHERWISE] IN AREAS TO BE SEEDED OR SODDED.
8. CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED MANHOLE RIMS, VALVE BOXES, ETC. TO MATCH FINAL GRADE.



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CHECKED: M/M
APPROVED: M/M
DATE: 2018-04-27

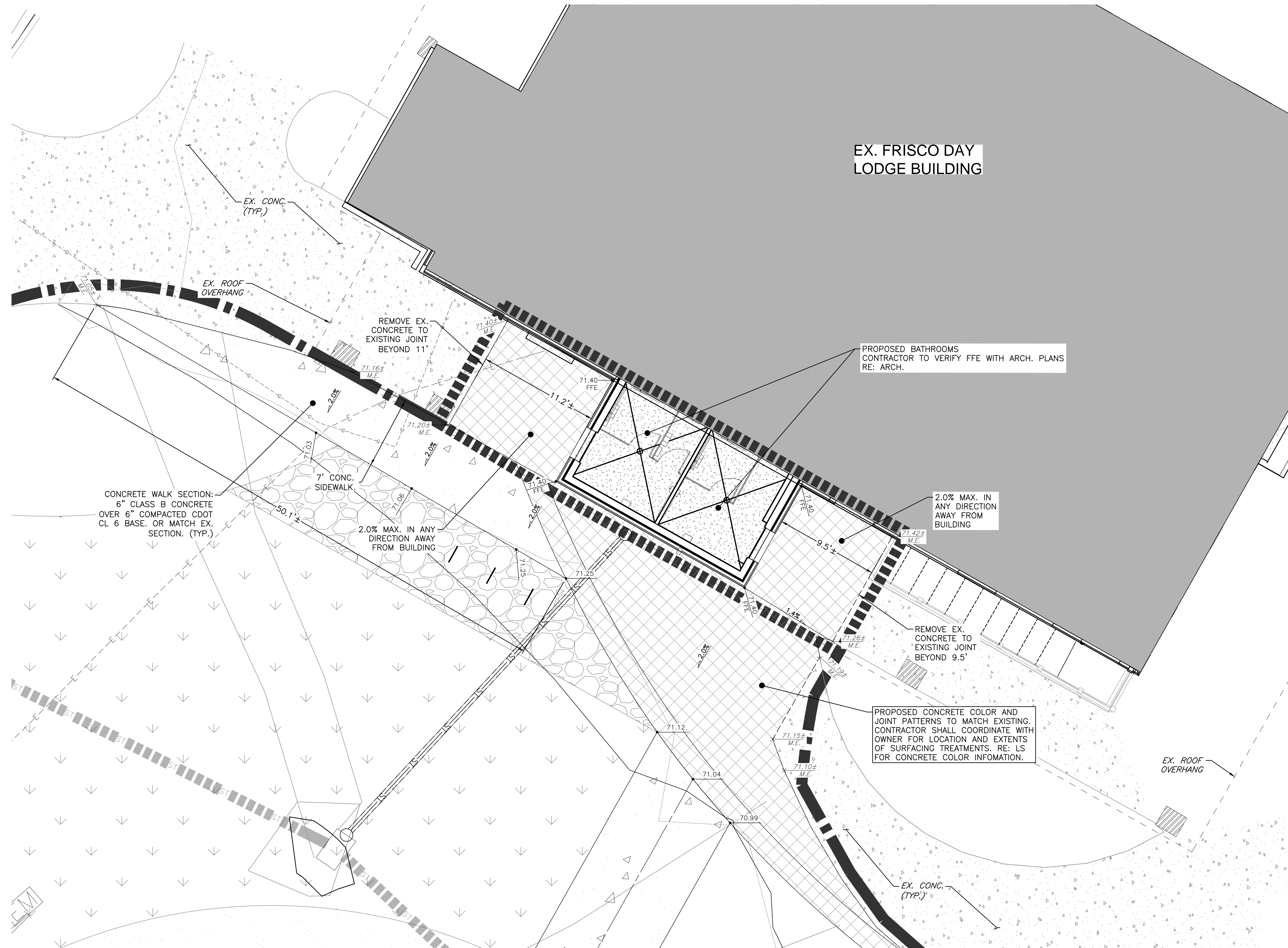
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(ALTERNATE #1)
ISSUED FOR:
PERMIT SET

SHEET TITLE:
CIVIL RESTROOM SITE
AND GRADING PLAN

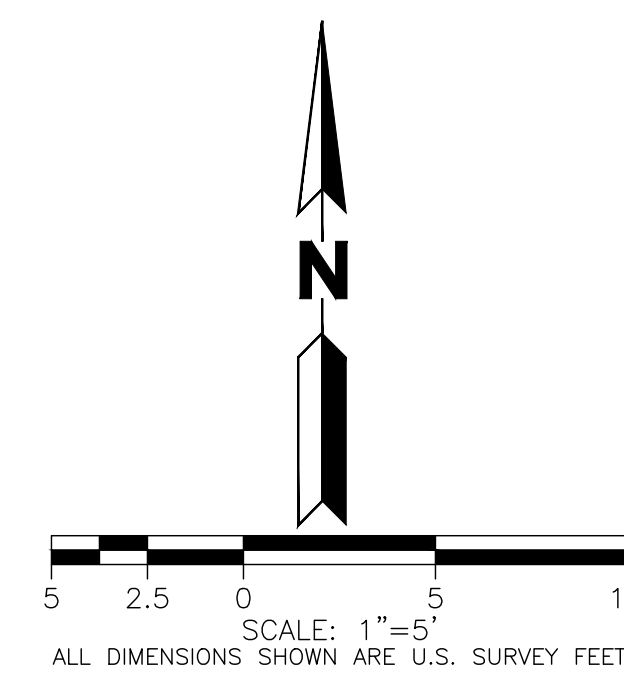
SCALE: PER PLAN
SHEET NUMBER

C-202



GRADING NOTES:

- ALL SITE GRADING [EXCAVATION, EMBANKMENT, AND COMPACTION] SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST GEOTECHNICAL INVESTIGATION FOR THIS PROPERTY AND SHALL FURTHER BE IN CONFORMANCE WITH THE TOWN OF FRISCO'S "STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS," LATEST EDITION.
- ALL NEWLY CONSTRUCTED OR ALTERATIONS OF ACCESSIBILITY ROUTES (WALKS, RAMPS, ENTRANCES, ETC.) SHALL COMPLY WITH THE RULES AND REGULATIONS SET FORTH BY ADA, ADAAG, CITY, STATE, FEDERAL OR JURISDICTION HAVING AUTHORITY, INCLUDING BUT NOT LIMITED TO: 5% MAXIMUM GRADE ON WALKS WITHOUT HANDRAILS, 8.33% MAXIMUM GRADE ON WALKS WITH HANDRAILS AND LEVEL LANDINGS (MAXIMUM 2% COMPOSITE SLOPE), 2% MAXIMUM CROSS SLOPE ON WALKS AND 2% MAXIMUM COMPOSITE SLOPE IN HANDICAP PARKING/LOADING AREAS. NO TOLERANCE REGARDING MAXIMUM SLOPES WILL BE ALLOWED. DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE AS NECESSARY WITH OWNER, DEVELOPER, ENGINEER, ARCHITECT, OR DESIGNATED OFFICIAL IF RULES AND REGULATIONS OF ACCESSIBILITY ROUTES CAN NOT BE MET. IN ADDITION, OWNER IS ADVISED THAT REGULAR MAINTENANCE PROGRAMS SHOULD BE IMPLEMENTED AFTER CONSTRUCTION TO KEEP EXISTING ROUTES SAFE, USABLE, AND ADA COMPLIANT.
- IT IS THE INTENTION OF THE PROJECT GRADING PLANS TO BE IN STRICT COMPLIANCE WITH, AND OR EXCEED, THE PROJECT'S GEOTECHNICAL ENGINEER'S GRADING RECOMMENDATIONS. IF THE CONTRACTOR BELIEVES A DEVIATION EXISTS BETWEEN THE PLANS AND THE GEOTECHNICAL RECOMMENDATION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY AND REQUEST WRITTEN CLARIFICATION PRIOR TO PROCEEDING WITH WORK. THE GENERAL CONSTRUCTION SPECIFICATION IS THAT THE MOST RESTRICTIVE REQUIREMENT/RECOMMENDATION GOVERNS THE CONSTRUCTION OF THE PROJECT.
- EXISTING ELEVATIONS SHOWN ON THIS DRAWING HAVE BEEN DEPICTED FROM BEST AVAILABLE INFORMATION AND ARE SHOWN TO THE EXTENT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING GRADE CONDITIONS AT THE LIMITS OF CONSTRUCTION AND AT LOCATIONS THAT INTERFACE WITH EXISTING OR PROPOSED STRUCTURES AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT CONTRADICT THE ENGINEER'S INTENT FOR DRAINAGE PATTERNS, MAXIMUM AND MINIMUM SLOPES, AND PROPOSED ELEVATIONS AS SHOWN ON THE PLAN. THE ENGINEER WILL NOT BE LIABLE FOR ANY COSTS ASSOCIATED WITH CHANGES TO THE DESIGN WITHOUT PROPER NOTIFICATION.
- PROPOSED CONTOURS AND SPOT ELEVATIONS AS SHOWN HEREIN ARE DEFINED AS FINISHED ELEVATION AFTER PAVING, LANDSCAPING, ETC. CONTRACTOR SHALL COORDINATE WITH GEOTECH FOR PAVEMENT THICKNESS AND LANDSCAPE FOR THICKNESS OF TOPSOIL, SOD AND LANDSCAPE MATERIALS.
- ALL SPOTS ARE TO FLOWLINE UNLESS OTHERWISE NOTED. FG = FINISHED GRADE, FF = FINISH FLOOR, TOF = TOP OF FOUNDATION, HP = HIGH POINT, LP = LOW POINT, TOW = TOP OF WALL [FINISHED GRADE AT BACK OF WALL], BOW = BOTTOM OF WALL [FINISHED GRADE AT FACE OF WALL], GB = GRADE BREAK, FL = FLOWLINE, TOC = TOP OF CURB.
- TEMPORARY CUT/FILL SLOPES SHALL NOT EXCEED A STEEPNESS OF [1:1] (H:V). PERMANENT SLOPES SHALL NOT EXCEED [4:1] (H:V) [UNLESS NOTED OTHERWISE] IN AREAS TO BE SEEDED OR SODDED.
- CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED MANHOLE RIMS, VALVE BOXES, ETC. TO MATCH FINAL GRADE.



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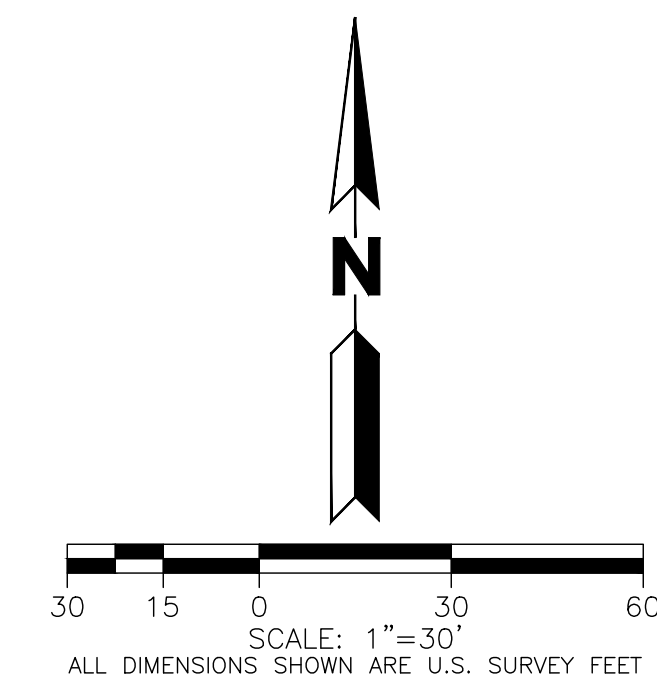
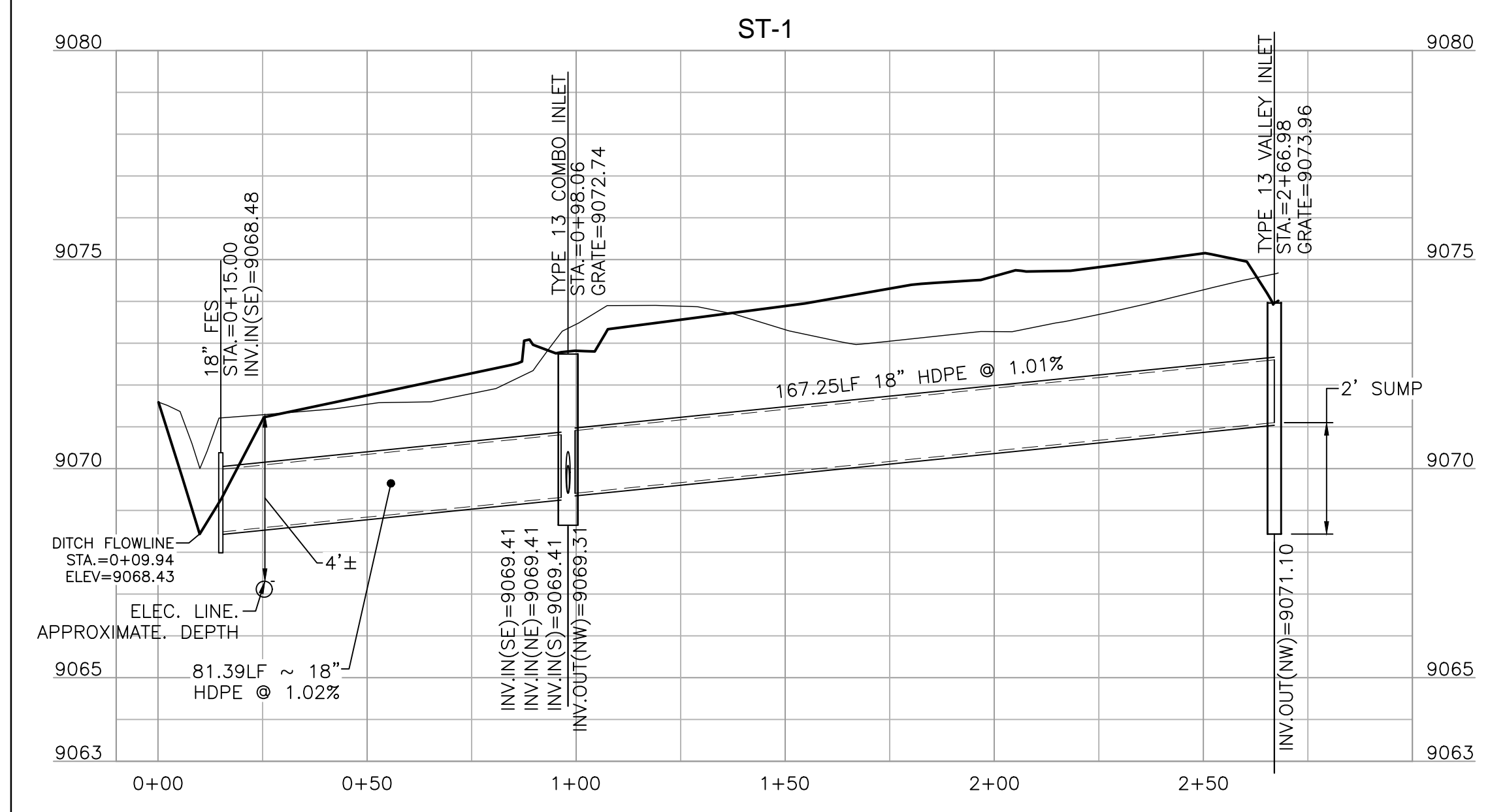
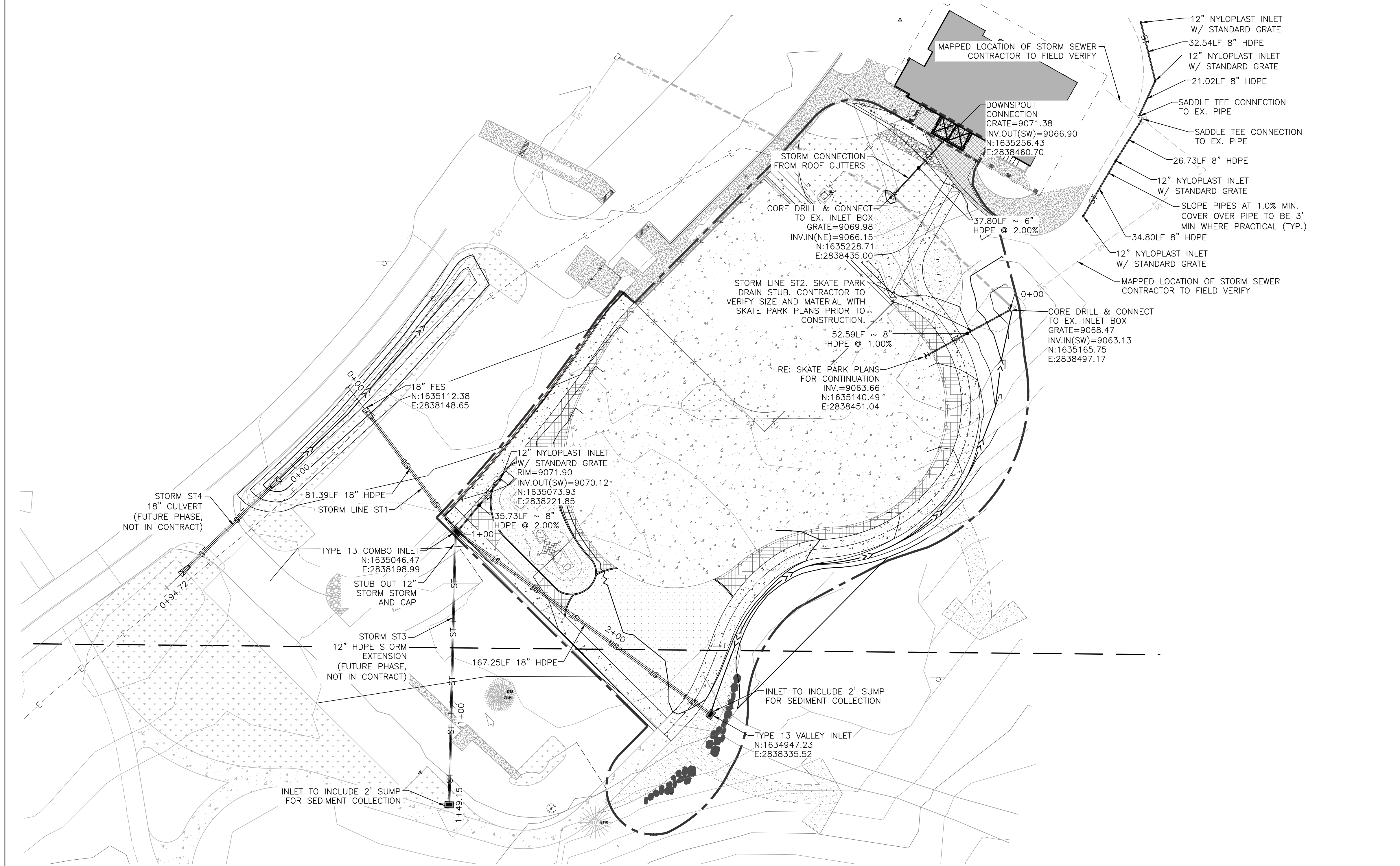
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FRISCO DAY LODGE RENOVATION
(ALTERNATE #1)
ISSUED FOR:
PERMIT SET

SHEET TITLE:
STORM SEWER PLAN

SCALE: PER PLAN
SHEET NUMBER
C-400



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AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT
DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

PLOT DATE: Thursday, April 26, 2018 12:00 PM LAST SAVED BY: RJOHNSON
DRAWING LOCATION: H:\MC18.0378-Frisco Peninsula Recreation Area\PLANS\CDs\STORM SEWER PLAN.dwg



0101 FAWCETT ROAD, SUITE 260, AVON, COLORADO 81620
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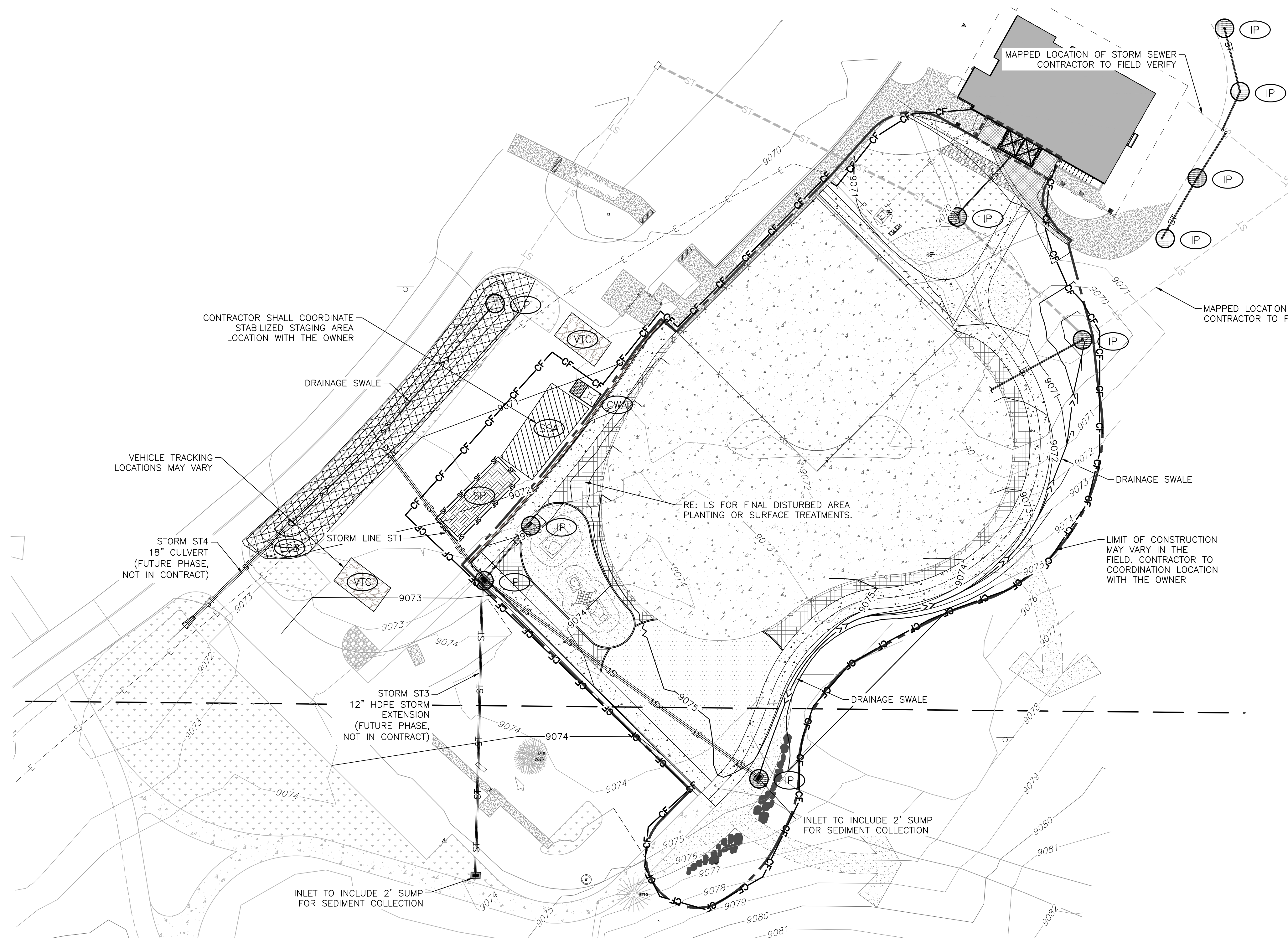
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FRISCO DAY LODGE RENOVATION (ALTERNATE #1)
ISSUED FOR: PERMIT SET
SHEET TITLE: EROSION CONTROL PLAN
SCALE: PER PLAN SHEET NUMBER
C-500

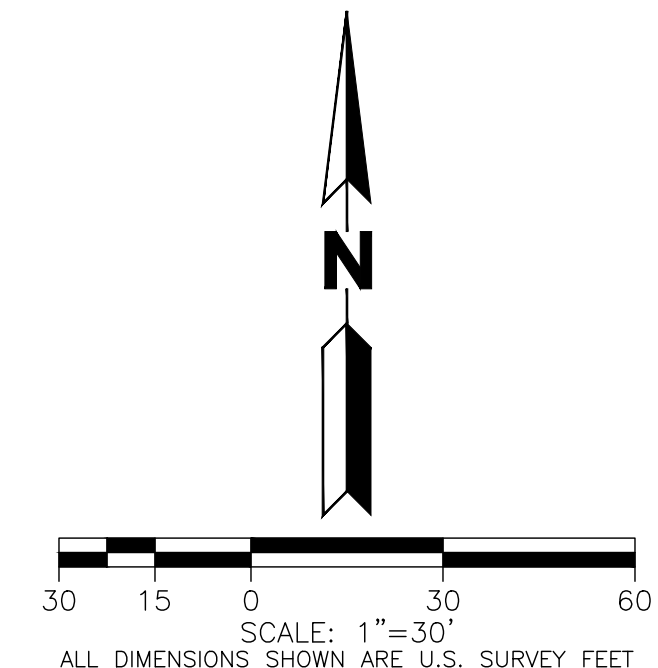
LEGEND

	SILT FENCE	
	VEHICLE TRACKING CONTROL	
	INLET PROTECTION	
	STABILIZED STAGING AREA	
	STOCKPILE MANAGEMENT W/ PROTECTION	
	CONCRETE WASHOUT AREA	
	CONSTRUCTION FENCE	
	EROSION CONTROL BLANKET	



EROSION CONTROL NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION TO PREVENT DAMAGING FLOWS ON THE SITE AND IN THE WATERSHED BELOW THE SITE. CONTROL SYSTEMS SHALL BE INSTALLED PRIOR TO STRIPPING OF NATIVE VEGETATIVE COVER AND AS GRADING PROGRESSES. REFER TO SEDIMENT AND EROSION CONTROL PLANS AND STORM WATER MANAGEMENT PLAN. CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THESE PLANS. THE PLAN MAY BE MODIFIED WITH APPROPRIATE APPROVALS AS FIELD CONDITIONS WARRANT.
2. NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED WHEREVER POSSIBLE. EXPOSURE OF SOIL TO EROSION BY REMOVAL OR DISTURBANCE OF VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATION AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
3. TOPSOIL SHALL BE STOCKPILED TO THE EXTENT PRACTICABLE ON THE SITE FOR USE ON AREAS TO BE REVEGETATED. ANY AND ALL STOCKPILES SHALL BE LOCATED AND PROTECTED FROM EROSION ELEMENTS.
4. AT ALL TIMES, THE PROPERTY SHALL BE MAINTAINED AND/OR WATERED TO PREVENT WIND-CAUSED EROSION. EARTHWORK OPERATIONS SHALL BE DISCONTINUED WHEN FUGITIVE DUST SIGNIFICANTLY IMPACTS ADJACENT PROPERTY. IF EARTHWORK IS COMPLETE OR DISCONTINUED AND DUST FROM THE SITE CONTINUES TO CREATE PROBLEMS, THE CONTRACTOR SHALL IMMEDIATELY INSTITUTE MITIGATIVE MEASURES AND SHALL CORRECT DAMAGE TO ADJACENT PROPERTY.
5. PERMANENT OR TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED TO DISTURBED AREAS WITHIN 30 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. UNLESS SPECIFIED OTHERWISE, TEMPORARY VEGETATION SHALL BE INSTALLED ON ALL DISTURBED AREAS WHERE PERMANENT SURFACE IMPROVEMENTS ARE NOT SCHEDULED FOR INSTALLATION WITHIN THREE MONTHS. TEMPORARY VEGETATION SHALL BE A VIGOROUS, DROUGHT TOLERANT, NATIVE SPECIES MIX. PROJECT SCHEDULING SHOULD TAKE ADVANTAGE OF SPRING OR FALL PLANTING SEASONS FOR NATURAL GERMINATION, BUT SEEDED AREAS SHALL BE IRRIGATED, IF CONDITIONS MERIT. REFER TO THE LANDSCAPE PLAN FOR FINAL LANDSCAPING.
6. TEMPORARY FENCES SHALL BE INSTALLED ALONG ALL BOUNDARIES OF THE CONSTRUCTION LIMITS OR PROPERTY LINES AS SHOWN ON THE APPROVED EROSION CONTROL PLAN, TO PREVENT GRADING ON PROPERTY NOT OWNED BY THE OWNER/DEVELOPER. IN ADDITION, THE [LOCAL JURISDICTION] MAY REQUIRE ADDITIONAL TEMPORARY FENCES IF FIELD CONDITIONS WARRANT.
7. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION, EXCAVATION, TRENCHING, GRADING OR OTHER CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR REMEDIATION OF ANY ADVERSE IMPACTS TO ADJACENT WATERWAYS, ROADWAYS, WETLANDS, ETC., RESULTING FROM WORK DONE AS PART OF THIS PROJECT.
8. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN INADVERTENTLY DISCHARGED TO, OR ACCUMULATED IN, THE FLOWLINES AND PUBLIC RIGHT-OF-WAY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT.
9. THE GRADING CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THIS SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORT ON PUBLIC ROADWAYS.
10. APPROVED EROSION AND SEDIMENT CONTROL "BEST MANAGEMENT PRACTICES" [BMP] SHALL BE MAINTAINED AND KEPT IN GOOD REPAIR FOR THE DURATION OF THIS PROJECT. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL BMPs WEEKLY AND AFTER SIGNIFICANT PRECIPITATION EVENTS. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IN A TIMELY MANNER. ACCUMULATED SEDIMENT AND DEBRIS SHALL BE REMOVED FROM A BMP WHEN THE SEDIMENT LEVEL REACHES ONE HALF THE HEIGHT OF THE BMP OR, AT ANY TIME THAT SEDIMENT OR DEBRIS ADVERSELY IMPACTS THE FUNCTIONING OF THE BMP.
11. WATER USED IN THE CLEANING OF CONCRETE TRUCK DELIVERY CHUTES SHALL BE DISCHARGED INTO A PREDEFINED, BERMED CONTAINMENT AREA ON THE JOB SITE. THE REQUIRED CONTAINMENT AREA IS TO BE BERMED SO THAT WASH WATER IS TOTALLY CONTAINED. WASH WATER DISCHARGED INTO THE CONTAINMENT AREA SHALL BE ALLOWED TO INFILTRATE OR EVAPORATE. DRIED CONCRETE WASTE SHALL BE REMOVED FROM THE CONTAINMENT AREA AND PROPERLY DISPOSED OF. SHOULD A PREDEFINED BERMED CONTAINMENT AREA NOT BE AVAILABLE DUE TO THE PROJECT SIZE, OR LACK OF AN AREA WITH A SUITABLE GROUND SURFACE FOR ESTABLISHING A CONTAINMENT AREA, PROPER DISPOSAL OF READY MIX WASHOUT AND RINSE OFF WATER AT THE JOB SITE SHALL CONFORM TO THE APPROVED TECHNIQUES AND PRACTICES IDENTIFIED IN THE COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT'S TRAINING VIDEO ENTITLED "BUILDING FOR A CLEANER ENVIRONMENT, READY MIX WASHOUT TRAINING", AND ITS ACCOMPANYING MANUAL ENTITLED, "READY MIX WASHOUT GUIDEBOOK, VEHICLE AND EQUIPMENT WASHOUT AT CONSTRUCTION SITES." THE DIRECT OR INDIRECT DISCHARGE OF WATER CONTAINING WASTE CONCRETE TO THE STORM SEWER SYSTEM IS PROHIBITED. INFORMATION ABOUT, OR COPIES OF THE VIDEO AND TRAINING MANUAL ARE AVAILABLE FROM THE WATER QUALITY CONTROL DIVISION, COLORADO DEPARTMENT OF PUBLIC HEALTH & ENVIRONMENT, 4300 CHERRY CREEK DRIVE SOUTH, DENVER, COLORADO 80222-1530, 303-692-3555
12. THE CONTRACTOR SHALL PROTECT ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING WHEEL CUTTING, SAW CUTTING OR ABRASIVE WATER JET CUTTING ARE TO TAKE PLACE. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL WASTE PRODUCTS GENERATED BY SAID CUTTING OPERATIONS ON A DAILY BASIS. THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED.
13. PAVED SURFACES WHICH ARE ADJACENT TO CONSTRUCTION SITES SHALL BE SWEEPED IN A TIMELY MANNER WHEN SEDIMENT AND OTHER MATERIALS ARE TRACKED OR DISCHARGED ON TO THEM. EITHER SWEEPING BY HAND OR USE OF STREET SWEEPERS IS ACCEPTABLE. STREET SWEEPERS USING WATER WHILE SWEEPING IS PREFERRED IN ORDER TO MINIMIZE DUST. FLUSHING OFF PAVED SURFACES WITH WATER IS PROHIBITED.



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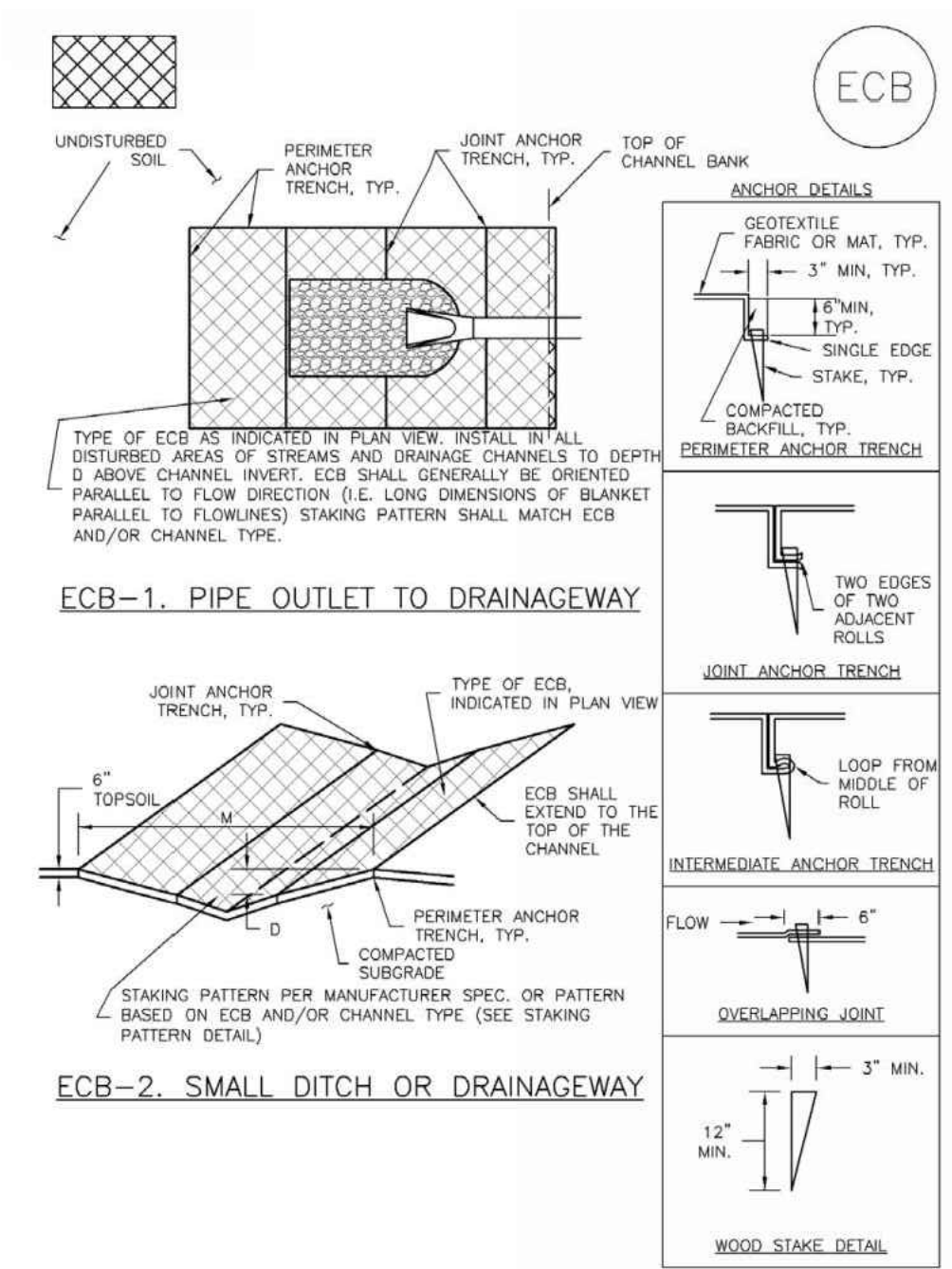
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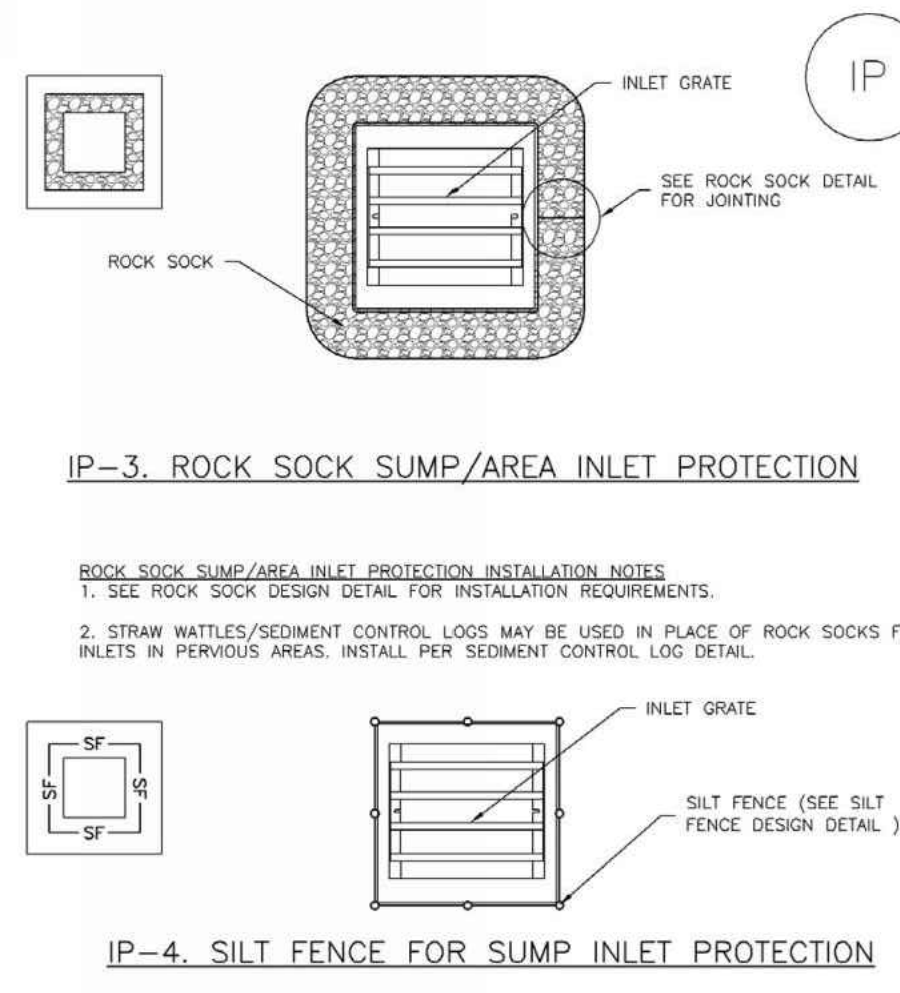
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SCALE: PER PLAN SHEET NUMBER
C-501

EC-6 Rolled Erosion Control Products (RECP)



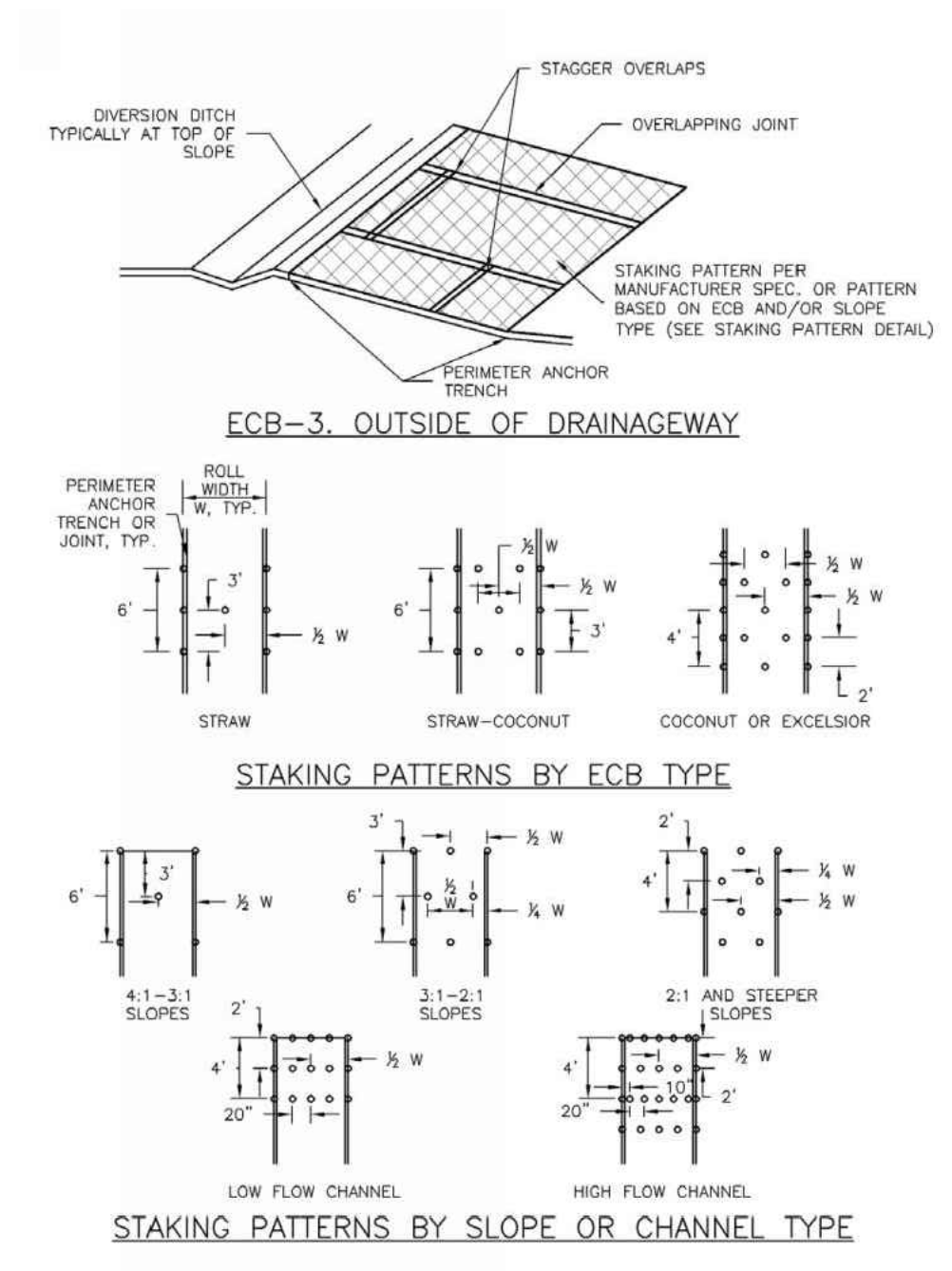
RECP-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Inlet Protection (IP) SC-6



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 IP-5

Rolled Erosion Control Products (RECP) EC-6



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RECP-7

Inlet Protection (IP) SC-6

GENERAL INLET PROTECTION INSTALLATION NOTES
1. SEE PLAN VIEW FOR:
-LOCATION OF INLET PROTECTION.
-TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)
2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.
3. MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
INLET PROTECTION MAINTENANCE NOTES
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALES.
5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDS AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.
(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION, HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.
NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

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EC-6 Rolled Erosion Control Products (RECP)

- EROSION CONTROL BLANKET INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
-LOCATION OF ECB.
-TYPE OF ECB (STRAW, STRAW-COCOONUT, COCONUT, OR EXCELSIOR).
-AREA, A, IN SQUARE YARDS OF EACH TYPE OF ECB.
 - 100% NATURAL AND BIODEGRADABLE MATERIALS ARE PREFERRED FOR RECPs, ALTHOUGH SOME JURISDICTIONS MAY ALLOW OTHER MATERIALS IN SOME APPLICATIONS.
 - IN AREAS WHERE ECBs ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SURFACE SHALL BE SMOOTH AND MOST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR Voids SHALL EXIST UNDER THE BLANKET.
 - PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS.
 - JOINT ANCHOR TRENCH SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER (LONGITUDINALLY AND TRANSVERSELY) FOR ALL ECBs EXCEPT STRAW WHICH MAY USE AN OVERLAPPING JOINT.
 - INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.
 - OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES.
 - MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.
 - ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBs SHALL BE RESEED AND MULCHED.
 - DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

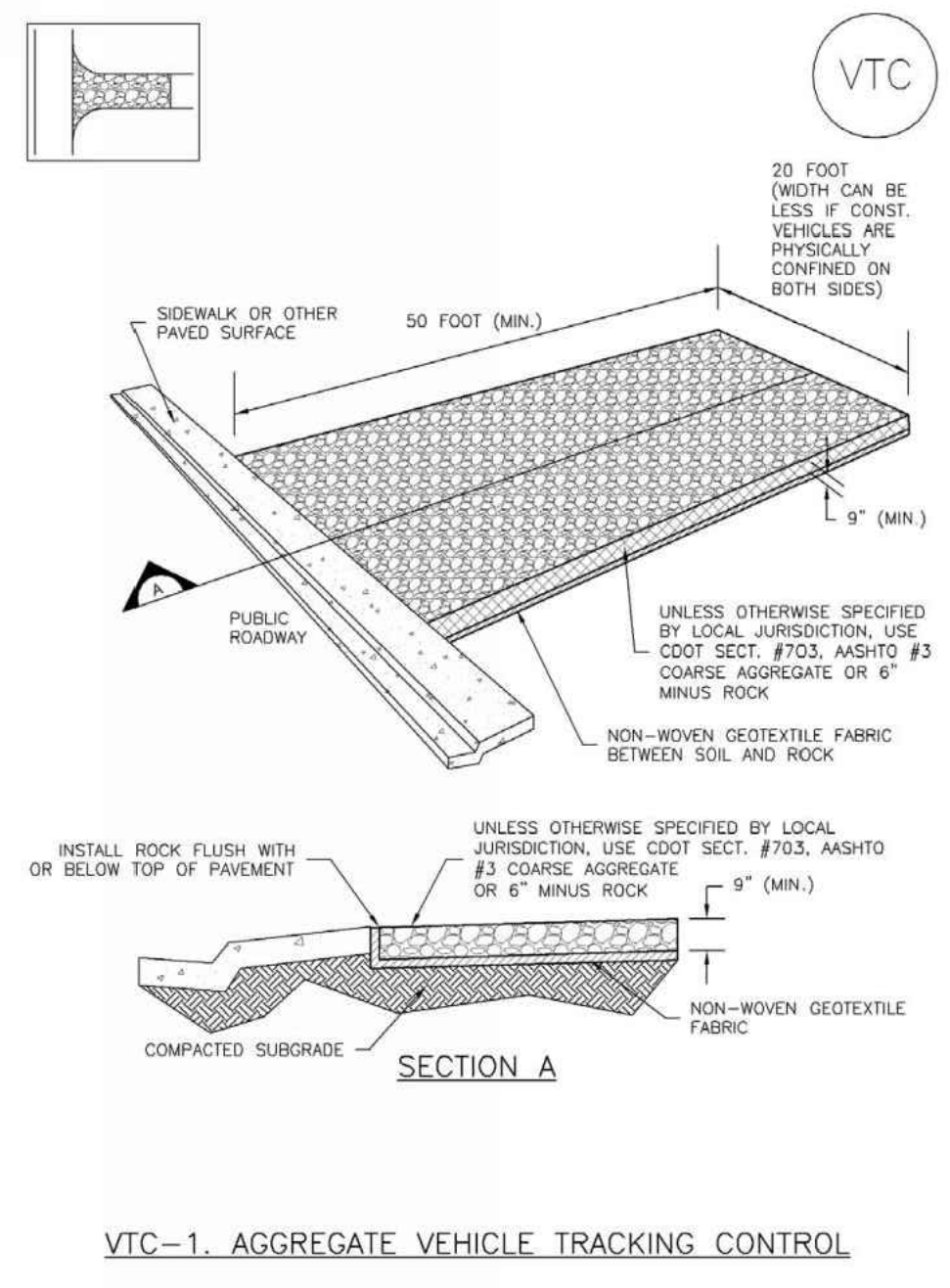
TABLE ECB-1. ECB MATERIAL SPECIFICATIONS

TYPE	COCONUT CONTENT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**
STRAW*	-	100%	-	DOUBLE/NATURAL
STRAW-COCOONUT	30% MIN	70% MAX	-	DOUBLE/NATURAL
COCONUT	100%	-	-	DOUBLE/NATURAL
EXCELSIOR	-	-	100%	DOUBLE/NATURAL

*STRAW ECBs MAY ONLY BE USED OUTSIDE OF STRIPS AND DRAINAGE CHANNELS.
**ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS.

RECP-8 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Vehicle Tracking Control (VTC) SM-4



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

Rolled Erosion Control Products (RECP) EC-6

- EROSION CONTROL BLANKET MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ECBs SHALL BE LEFT IN PLACE TO EVENTUALLY BIODEGRADE, UNLESS REQUESTED TO BE REMOVED BY THE LOCAL JURISDICTION.
 - ANY ECB PULLED OUT, TORN, OR OTHERWISE DAMAGED SHALL BE REPAIRED OR REINSTALLED. ANY SUBGRADE AREAS BELOW THE GEOTEXTILE THAT HAVE ERODED TO BE REPAIRED, RESEEDED AND MULCHED AND THE ECB REINSTALLED.
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 RECP-9

SM-4 Vehicle Tracking Control (VTC)

- STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES**
- SEE PLAN VIEW FOR:
-LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
-TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
 - CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
 - A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
 - A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
 - SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.
- NOTE:** MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.
(DETAILS ADAPTED FROM CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

VTC-6 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010



3003 Larimer Street
Denver, Colorado 80205
phone 303.861.5704
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FRISCO DAY LODGE RENOVATION
621 RECREATION WAY
FRISCO, CO 80443

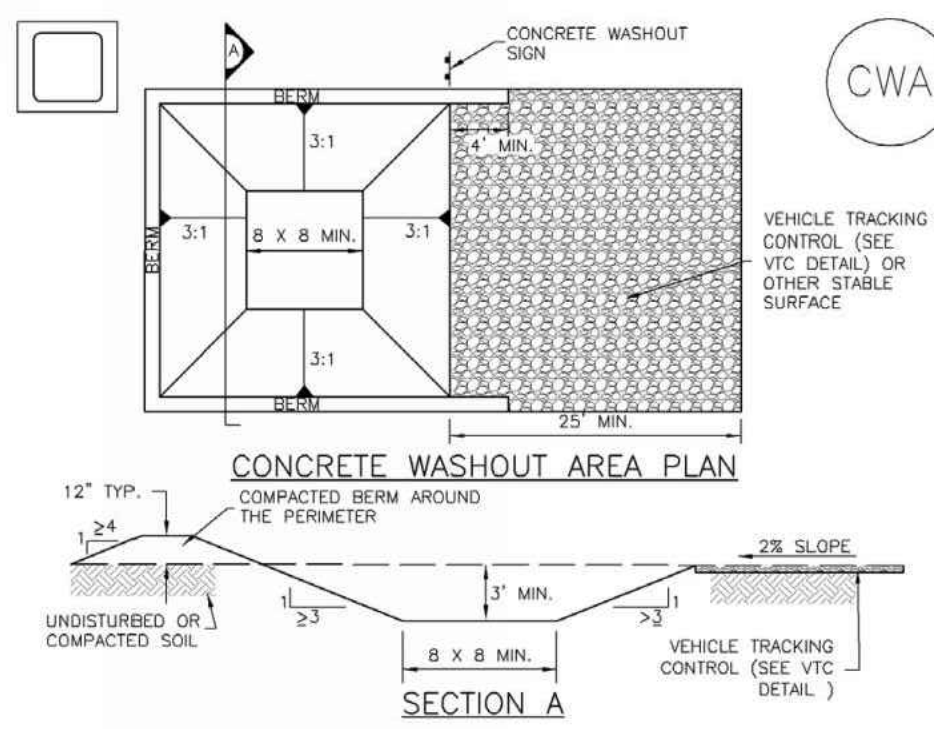
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APPROVED: M/M
DATE: 2018-04-27

© OZ ARCHITECTURE

FRISCO DAY LODGE RENOVATION (ALTERNATE #1)
ISSUED FOR: PERMIT SET
SHEET TITLE: EROSION CONTROL DETAILS

SCALE: PER PLAN SHEET NUMBER
C-502

Concrete Washout Area (CWA) MM-1



- CWA-1. CONCRETE WASHOUT AREA**
- CWA INSTALLATION NOTES**
- SEE PLAN VIEW FOR: -CWA INSTALLATION LOCATION.
 - DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (18 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DUCKS OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
 - THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
 - CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
 - BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 12".
 - VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
 - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
 - USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

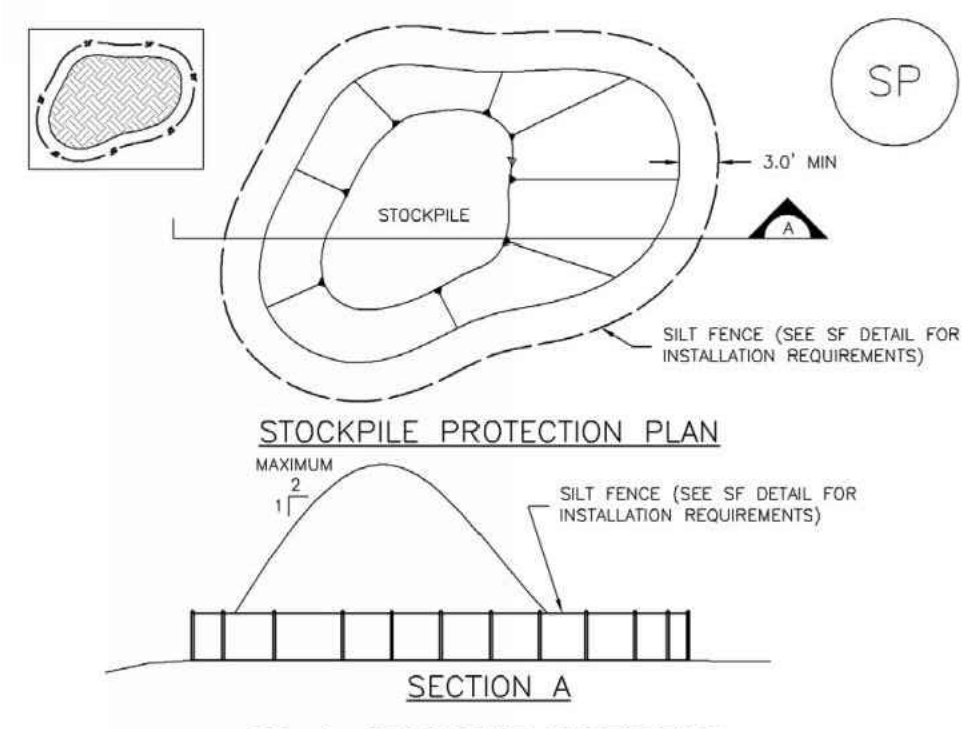
November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3

Concrete Washout Area (CWA) MM-1

- CWA MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
 - CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
 - THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
 - WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION. (DETAIL ADAPTED FROM DOUGLASS COUNTY, COLORADO AND THE CITY OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCO STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

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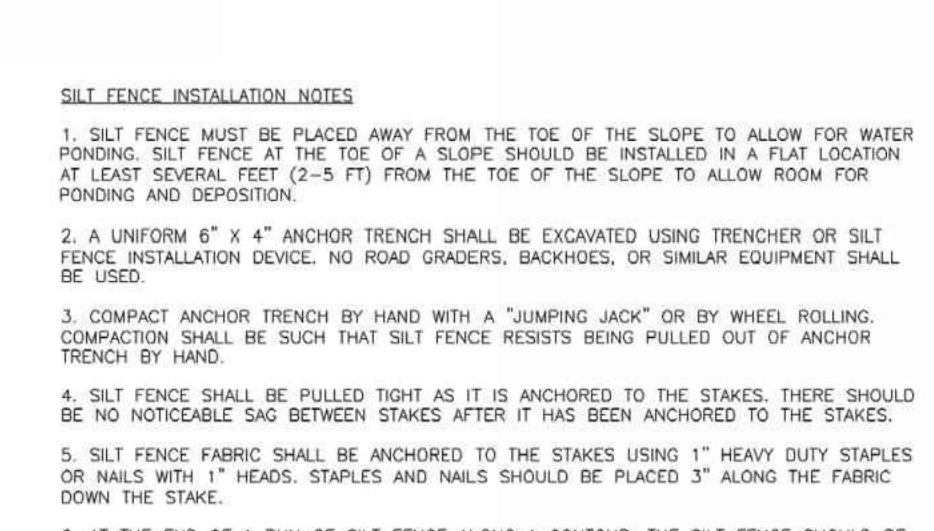
Stockpile Management (SP) MM-2



- SP-1. STOCKPILE PROTECTION**
- STOCKPILE PROTECTION INSTALLATION NOTES**
- SEE PLAN VIEW FOR: -LOCATION OF STOCKPILES. -TYPE OF STOCKPILE PROTECTION.
 - INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT FENCE IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENT CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.
 - STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDS AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30-60 DAYS).
 - FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

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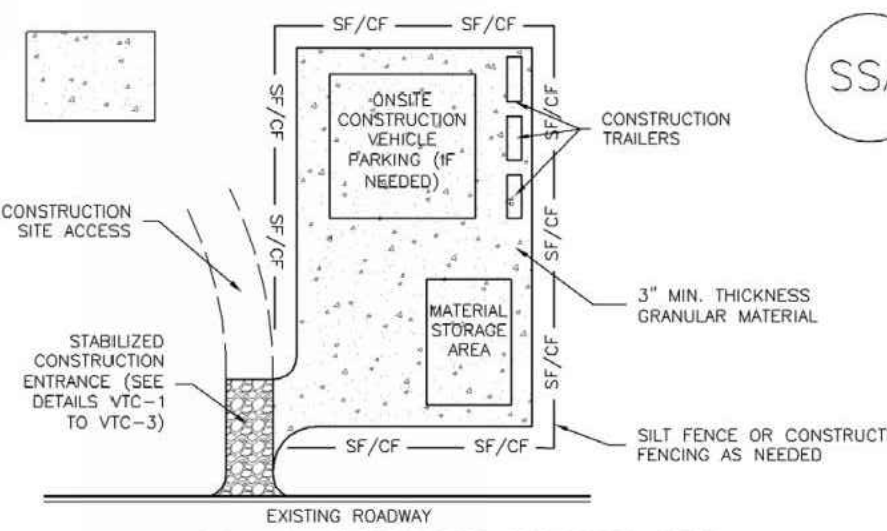
Silt Fence (SF) SC-1



- SILT FENCE INSTALLATION NOTES**
- SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
 - A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT FENCE INSTALLATION DEVICE. NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.
 - COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTOR SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
 - SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
 - SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES OR NAILS WITH 1" HEADS. STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC DOWN THE STAKE.
 - AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
 - SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- SILT FENCE MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NECESSARY TO MAINTAIN THE FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6".
 - REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
 - SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
 - WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDS AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION. (DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCO STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

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Stabilized Staging Area (SSA) SM-6



- SSA-1. STABILIZED STAGING AREA**
- STABILIZED STAGING AREA INSTALLATION NOTES**
- SEE PLAN VIEW FOR: -LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
 - STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
 - STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
 - THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
 - UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703 A6H10 #3 COARSE AGGREGATE OR 8" (MINUS) ROCK.
 - ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.
- STABILIZED STAGING AREA MAINTENANCE NOTES**
- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
 - FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
 - WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

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Stabilized Staging Area (SSA) SM-6

- STABILIZED STAGING AREA MAINTENANCE NOTES**
- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
 - THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDS AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.
- NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.**
- NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCO STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**
- (DETAILS ADAPTED FROM DOUGLASS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)**

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-4

PLOT DATE: Thursday, April 26, 2018 12:01 PM LAST SAVED BY: RJOHNSON DRAWING LOCATION: H:\MC18.0378-Frisco Peninsula Recreation Area\PLANS\Cos\EROSION CONTROL.dwg

GENERAL NOTES

1. LIVE LOADS USED IN DESIGN:

A. ROOF SNOW LOAD	90 PSF
B. IMPORTANCE FACTORS	
CATEGORY	II
SEISMIC FACTOR I _E	1.0
SNOW FACTOR I _S	1.0
WIND FACTOR I _W	1.0
C. WIND	
3 SECOND GUST EXPOSURE	115 (ULTIMATE)
EXPOSURE	B
D. SEISMIC	
SITE CLASS	C
CATEGORY	B
SS	.255
S1	.073
S0S	0.204
S0I	0.0825

BASIC SEISMIC FORCE RESISTING SYSTEM IS WOOD SHEAR WALL
 SEISMIC RESPONSE COEFFICIENTS CS .029
 RESPONSE MODIFICATION FACTOR 7
 ANALYSIS PROCEDURE USED EQUIVALENT LATERAL FORCE

E. LIVE LOADS ARE REDUCED PER CODE IF APPLICABLE.
 F. CODE USED IN DESIGN: INTERNATIONAL BUILDING CODE, 2015 EDITION.

2. TESTING, INSPECTIONS AND OBSERVATIONS:

A. THE STRUCTURAL ENGINEER DOES NOT PROVIDE INSPECTIONS OF CONSTRUCTION. STRUCTURAL ENGINEER MAY MAKE PERIODIC OBSERVATIONS OF THE CONSTRUCTION; SUCH OBSERVATIONS SHALL NOT REPLACE REQUIRED INSPECTIONS BY THE GOVERNING AUTHORITIES OR SERVE AS "SPECIAL INSPECTIONS" AS MAY BE REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
 B. THE FOLLOWING WORK SHALL BE INSPECTED BY THE SPECIAL INSPECTOR UNLESS SPECIFICALLY WAIVED BY THE BUILDING OFFICIAL.

1. SOIL PREPARATION
 - a. EARTHWORK EXCAVATION, PLACEMENT AND COMPACTION OF FILL AND IN-PLACE DRY DENSITY OF THE COMPACTED FILL FOR CONFORMANCE WITH THE APPROVED REPORT.
2. CONCRETE CONSTRUCTION
 - a. PERIODIC INSPECTION OF REINFORCING STEEL.
 - b. PERIODIC VERIFICATION OF USE OF REQUIRED DESIGN MIX.
 - c. CONTINUOUS INSPECTION AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
 - d. PERIODIC INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.

3. CONCRETE

A. ALL CAST-IN-PLACE CONCRETE SHALL BE MADE WITH TYPE I/II PORTLAND CEMENT, STONE AGGREGATE AND SHALL SATISFY THE FOLLOWING REQUIREMENTS:

CONCRETE ITEM	F' C MIX TYPE	MAX W/C RATIO	% AIR REQ.
FOOTINGS	3000 psi STD	---	---
FOUNDATION WALLS	4000 psi STD	---	---
INTERIOR SLABS ON GRADE	4000 psi STD	0.50	---
EXTERIOR CONCRETE (++)	4500 psi STD	0.45	6%-8%

++ MAXIMUM SLUMP SHALL NOT EXCEED 4".
 B. CONTRACTOR SHALL SAWCUT OR TROWELCUT JOINTS IN SLABS ON GRADE. JOINTS SHALL BE SPACED 12 FEET AND SAWCUT OR TROWELCUT 1/4 OF SLAB DEPTH X 3/16" WIDE WITHIN 12 HOURS AFTER POURING. CARRY ALL SLAB REINFORCEMENT THROUGH JOINT.

C. SLABS, FOOTINGS AND WALLS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE AT THIRD POINT OF SPAN WITH VERTICAL BULKHEADS AND HORIZONTAL SHEAR KEYS UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS REVIEWED BY THE ENGINEER.

D. ALL CONCRETE WORK AND REINFORCEMENT DETAILING SHALL BE IN ACCORDANCE WITH ACI BUILDING CODE 318 LATEST EDITION, UNLESS NOTED OTHERWISE. USE STANDARD HOOKS FOR DOWELS UNLESS NOTED OTHERWISE. ALL EXPOSED EDGES OF CONCRETE WORK SHALL HAVE 3/4 INCH CHAMFER.

4. REINFORCEMENT

A. ALL REINFORCING SHALL BE HIGH-STRENGTH DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 EXCEPT TIES, STIRRUPS AND PLATE ANCHORS WHICH SHALL BE DEFORMED BARS, ASTM DESIGNATION A615, GRADE 40 OR ASTM A706 GRADE 60.
 B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 GRADE 65 AND SHALL BE LAPPED ONE FULL MESH AT SIDE AND END SPLICES AND WIRED TOGETHER.

- C. REINFORCEMENT PROTECTION UNLESS NOTED OTHERWISE:
1. CONCRETE POURED AGAINST EARTH 3"
 2. CONCRETE POURED IN FORMS (EXPOSED TO WEATHER OR EARTH) 2"
 3. SLABS AND WALLS (NOT EXPOSED TO WEATHER) 3/4"

D. REINFORCEMENT PLACEMENT AND TOLERANCES SHALL BE IN ACCORDANCE WITH SECTIONS 7.5, 7.6 AND 7.7 OF ACI 318, LATEST EDITION.

F. NO SPLICES OF REINFORCEMENT SHALL BE MADE EXCEPT AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES, WHERE PERMITTED, SHALL BE A MINIMUM OF 48 BAR DIAMETERS UNLESS NOTED OTHERWISE. MAKE ALL BARS CONTINUOUS AROUND CORNERS.

5. WOOD

A. ALL FRAMING AND TRUSS LUMBER SHALL BE DRY DOUGLAS FIR, LARCH, GRADED BY WESTERN WOOD PRODUCTS ASSOCIATION AND CONFORMING TO INTERNATIONAL BUILDING CODE AS FOLLOWS:

2" THICK - 4" TO 6" WIDE (WALL STUD ONLY)	NO. 2 Fb =	900 PSI
2 TO 4 THICK - 2 TO 4 WIDE	NO. 1 Fb =	1200 PSI
2" TO 4" THICK - 6" AND WIDER	SELECT STRUCTURAL =	1500 PSI
5" THICK - 5" AND WIDER	SELECT STRUCTURAL =	1600 PSI

NOTED ALLOWABLE STRESSES ARE MINIMUMS AND FOR NONREPETITIVE USES PRIOR TO ALLOWABLE STRESS INCREASES.

B. WHEN PRESERVATIVE TREATED LUMBER IS REQUIRED BY CODE ALL CONNECTIONS AND NAILING SHALL BE ADEQUATELY GALVANIZED (DOUBLE DIPPED OR BETTER).

C. TREATED SILL PLATE LUMBER MAY BE HEM-FIR, STRUCTURAL #1 GRADE.

D. PROVIDE METAL CROSS BRIDGING NOT OVER 8' ON CENTER FOR ALL 2X WOOD JOISTS. SOLID BLOCKING BETWEEN ALL JOISTS AT ALL SUPPORTS AND ENDS OF CANTILEVERS IS REQUIRED.

E. FASTEN ALL WOOD MEMBERS WITH COMMON NAILS ACCORDING TO THE IBC SCHEDULE TABLE 2304-9.1 UNLESS NOTED OTHERWISE.

- F. PLYWOOD DECK AND/OR ORIENTED STRAND BOARD.
1. PANEL THICKNESS SHALL BE AS SHOWN ON THE DRAWING. APPLICATION SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS OF THE AMERICAN PLYWOOD ASSOCIATION.
 2. EACH PANEL SHALL BE IDENTIFIED WITH THE GRADE-TRADEMARK OF THE AMERICAN PLYWOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF U.S. PRODUCTS STANDARD PS1, LATEST EDITION FOR PLYWOOD. ALL PANELS WHICH HAVE ANY EDGE OR SURFACE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE OF THE EXTERIOR TYPE.
 3. FOR FLOORING USE 3/4" T&G STURD-I-FLOOR SHEATHING GLUED AND NAILED WITH 100 NAILS AT 6" ON CENTER ALONG PANEL EDGES AND AT 12" ALONG INTERMEDIATE SUPPORTS.
 4. FOR ROOF USE 3/4" (48/24 SPAN RATING) EXPOSURE I SHEATHING NAILED WITH 100 NAILS AT 4" ON CENTER ALONG PANEL EDGES AND AT 12" ALONG INTERMEDIATE SUPPORTS.
 5. EXTERIOR WALLS SHALL HAVE ONE LAYER OF 5/8" EXPOSURE I PLYWOOD OR OSB SHEATHING NAILED WITH 8d (OR 10d) NAILS AT 6" ON CENTER ALONG PANEL EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS. ALL PANEL EDGES SHALL BE BLOCKED.
 6. FLOORS AND ROOF SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN PERPENDICULAR TO SUPPORTS WITH END JOINTS STAGGERED.
 7. INSTALL SUITABLE EDGE SUPPORT BY USE OF PLYCLIPS, TONGUE AND GROOVE PANELS OR SOLID WOOD BLOCKING SUPPORTS.

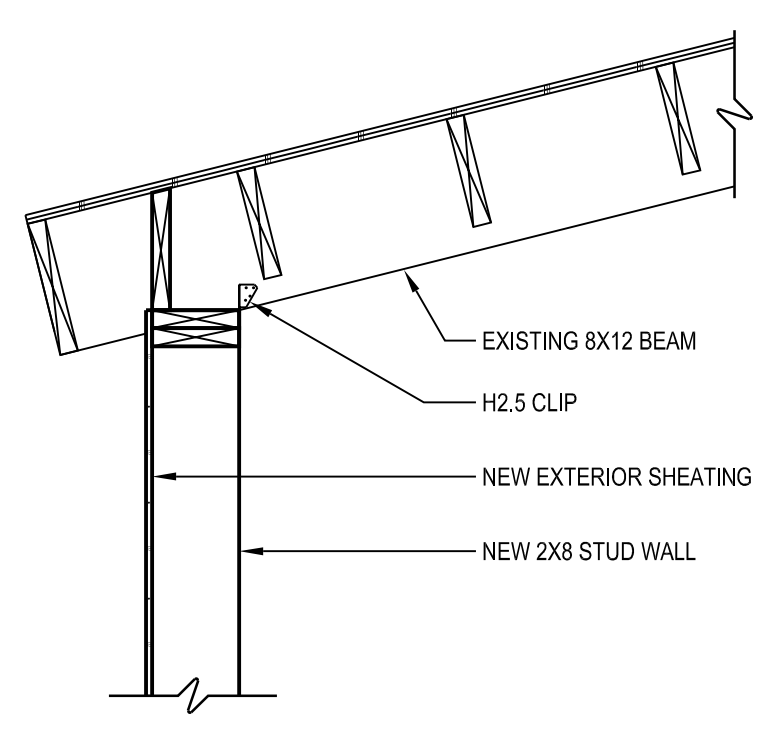
G. LAMINATED VENEER LUMBER MEMBERS SHALL HAVE THE FOLLOWING STRESS CAPACITIES: F_b = 2800 PSI; E = 2,000,000 PSI; F_c = 750 PSI; F_v = 285 PSI. BUILT UP MEMBERS SHALL BE CONNECTED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS. CONTRACTOR SHALL HAVE THE OPTION OF USING 3 1/2" OR 5 1/4" WIDE MEMBERS.

6. NON-STRUCTURAL ELEMENTS

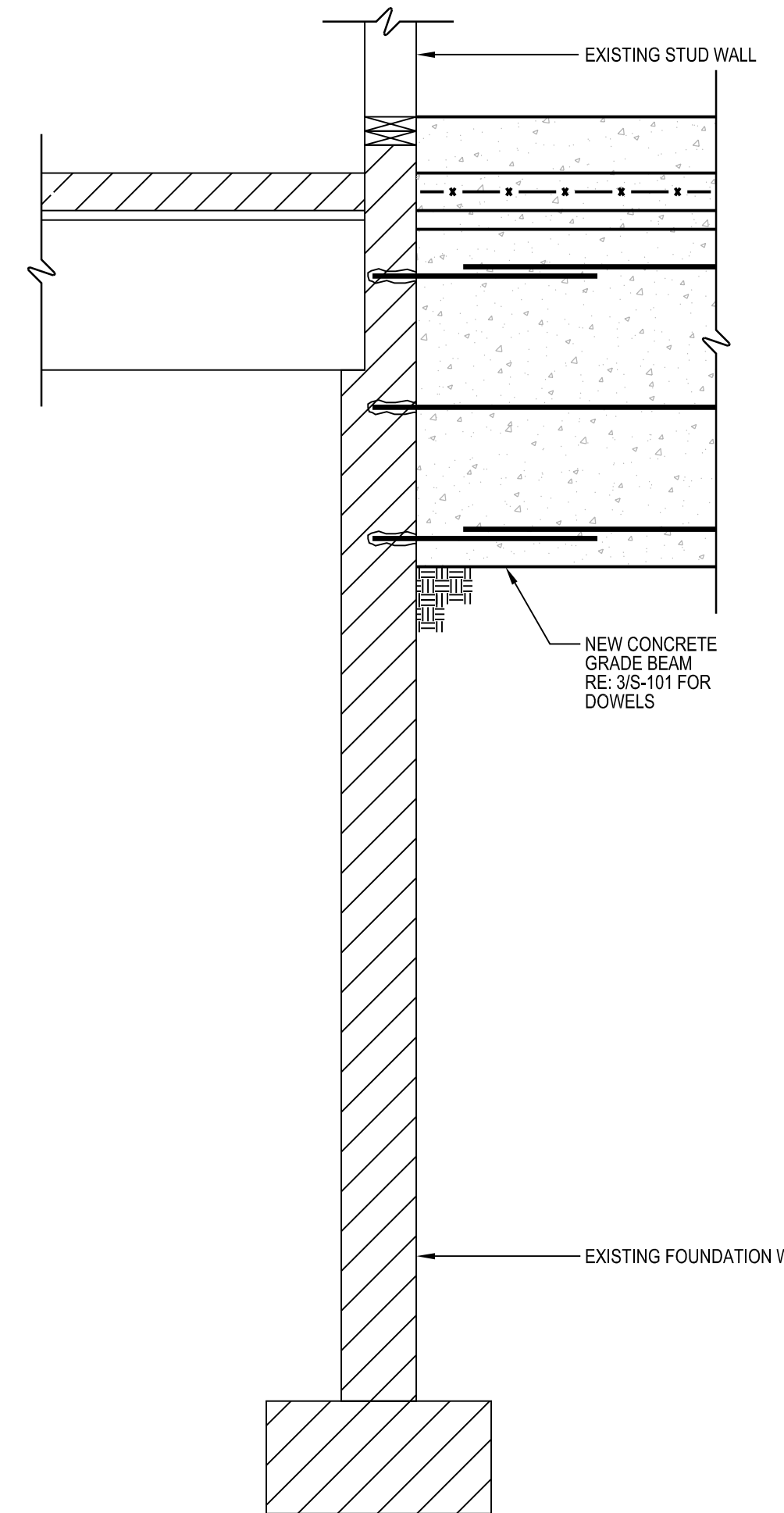
- A. ELEMENTS SUCH AS NON-BEARING PARTITIONS, ETC. ATTACHED TO AND/OR SUPPORTED BY THE STRUCTURE SHALL TAKE INTO ACCOUNT DEFLECTIONS AND OTHER STRUCTURAL MOVEMENTS.
 B. FIRE PROTECTION FOR ALL STRUCTURAL PARTS SHALL BE PROVIDED AND SHALL MEET ALL CODE REQUIREMENTS FOR THE TYPE OF CONSTRUCTION SPECIFIED BY THE ARCHITECTURAL DRAWINGS. STRUCTURAL STEEL MEMBERS SHALL BE CONSIDERED UNRESTRAINED UNLESS NOTED OTHERWISE.

7. GENERAL

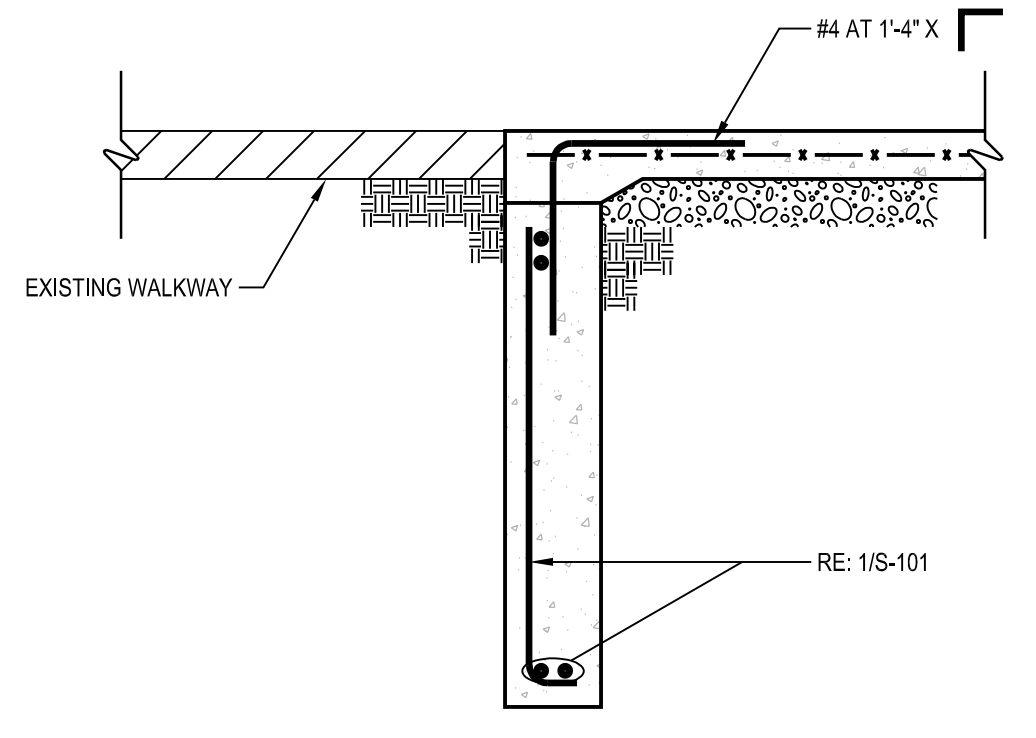
- A. ENGINEER'S ACCEPTANCE MUST BE SECURED FOR ALL STRUCTURAL SUBSTITUTIONS.
 B. VERIFY ALL OPENINGS THROUGH FLOORS, ROOF AND WALLS WITH MECHANICAL AND ELECTRICAL CONTRACTORS. VERIFICATION OF LOCATIONS, SIZES, LINTELS AND REQUIRED CONNECTIONS ARE CONTRACTOR'S COMPLETE RESPONSIBILITY.
 C. PRIOR TO INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT OR OTHER ITEMS TO BE ATTACHED TO THE STRUCTURE, ENGINEER'S APPROVAL OF CONNECTIONS AND SUPPORTS SHALL BE OBTAINED. UNLESS SPECIFICALLY DETAILED ON ARCHITECTURAL AND STRUCTURAL DRAWINGS, RESPECTIVE SUBCONTRACTOR SHALL FURNISH ALL HANGERS, CONNECTIONS, ETC., REQUIRED FOR INSTALLATION OF HIS ITEMS.
 D. PROVIDE ALL EMBEDDED ITEMS IN STRUCTURE AS NOTED ON ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS. MISCELLANEOUS EMBEDDED ITEMS AND ANCHOR BOLTS SHALL BE FURNISHED BY STEEL SUPPLIER AND INSTALLED BY CONCRETE CONTRACTOR. STEEL SHALL FULFILL ASTM A36.
 E. SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW OF ALL CONCRETE REINFORCING AND STRUCTURAL STEEL. THE MANUFACTURING OR FABRICATION OF ANY ITEMS PRIOR TO WRITTEN REVIEW OF SHOP DRAWINGS WILL BE ENTIRELY AT THE RISK OF THE CONTRACTOR. SHOP DRAWINGS NOT REVIEWED AND STAMPED BY CONTRACTOR PRIOR TO SUBMITTING WILL BE RETURNED AND NOT REVIEWED.
 F. WATERPROOFING, VAPOR BARRIERS, ETC., SHALL BE AS SHOWN ON THE ARCHITECTURAL DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS.
 G. ALL MASONRY AND STONE VENEERS SHALL BE ATTACHED TO INTERIOR AND EXTERIOR WALLS AS SPECIFIED IN SECTION 1405 OF THE INTERNATIONAL BUILDING CODE.
 H. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST FIELD AND ARCHITECTURAL DRAWINGS.



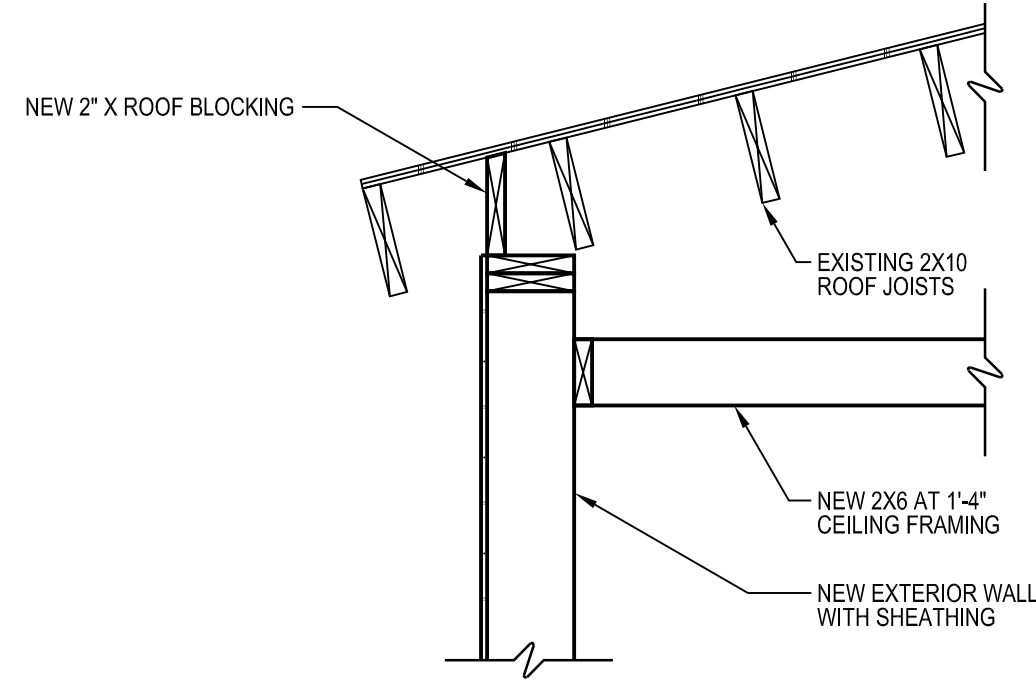
SECTION 7
3/4" = 1'-0"



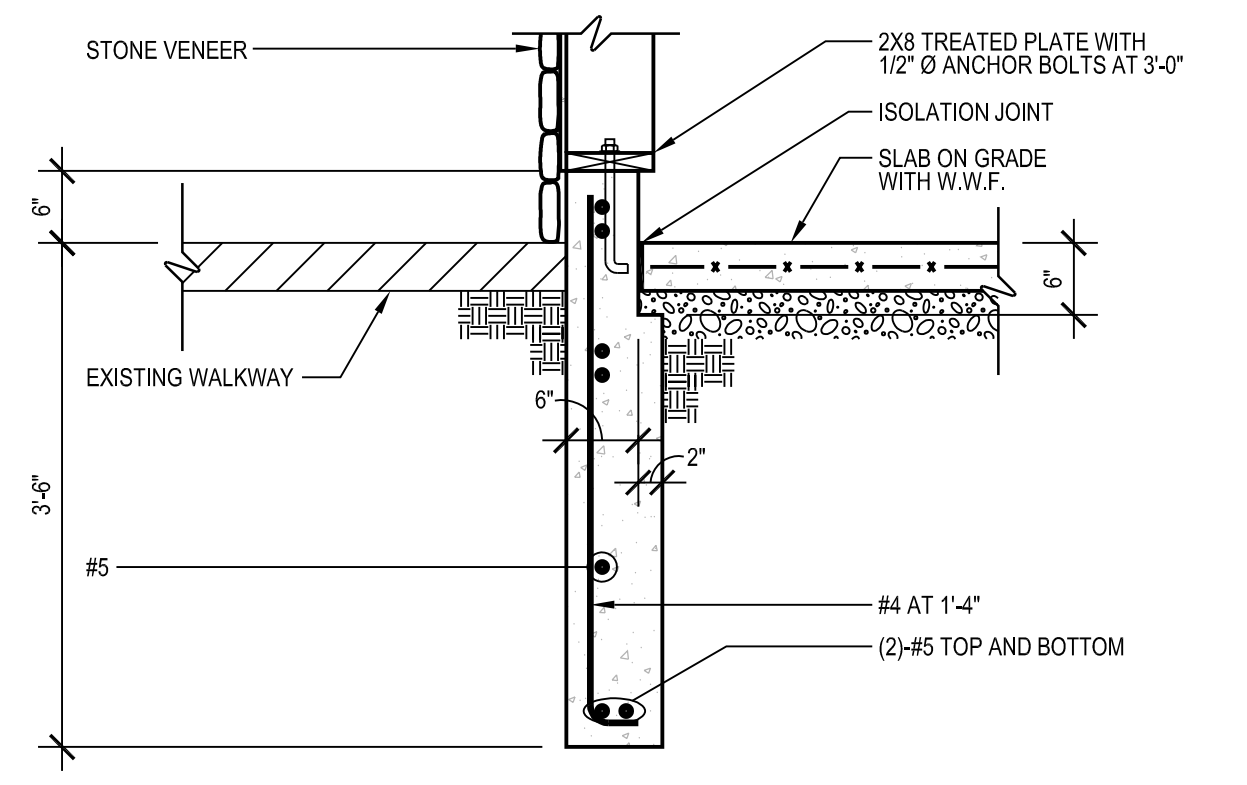
SECTION 4
3/4" = 1'-0"



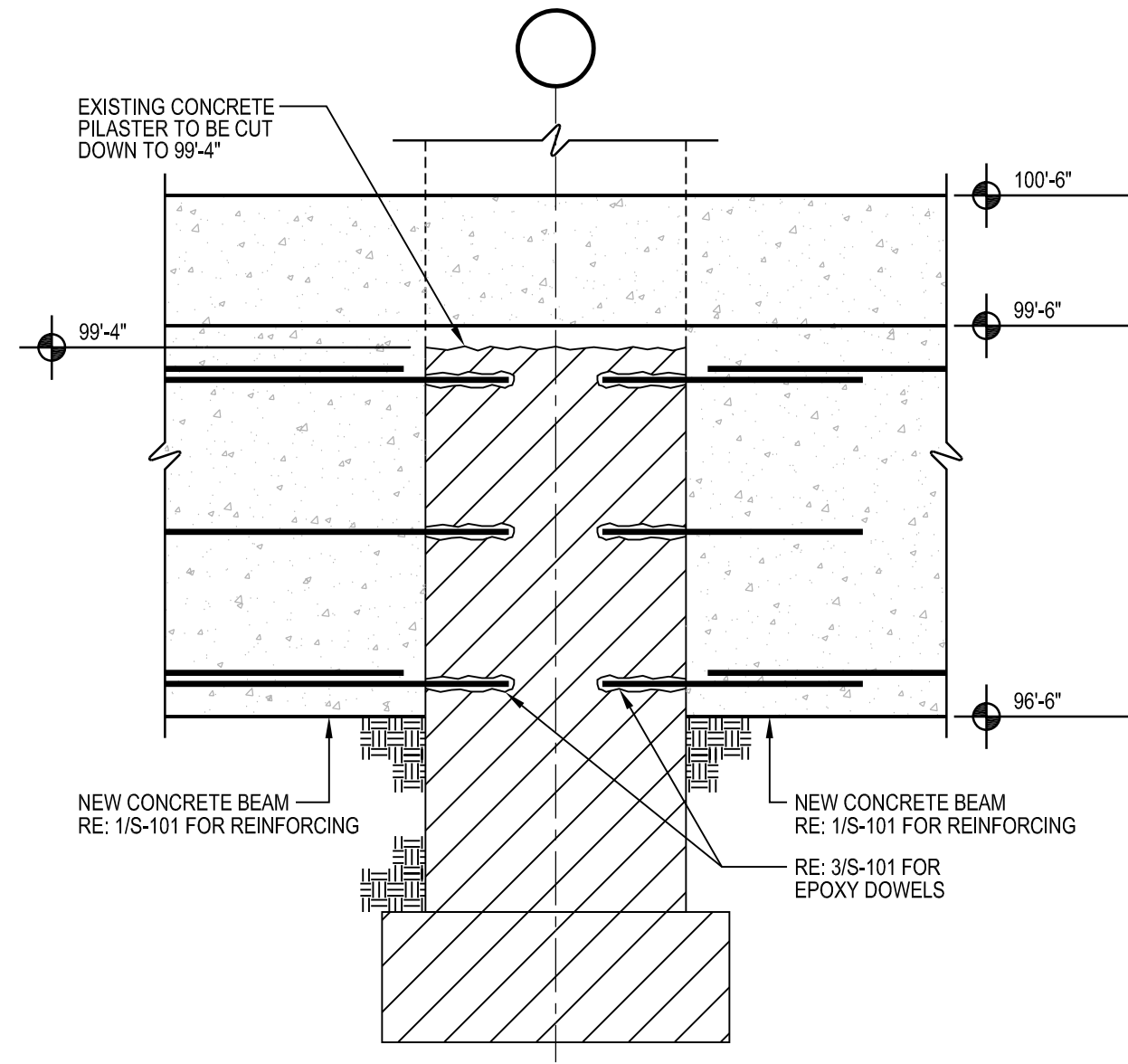
SECTION 5
3/4" = 1'-0"



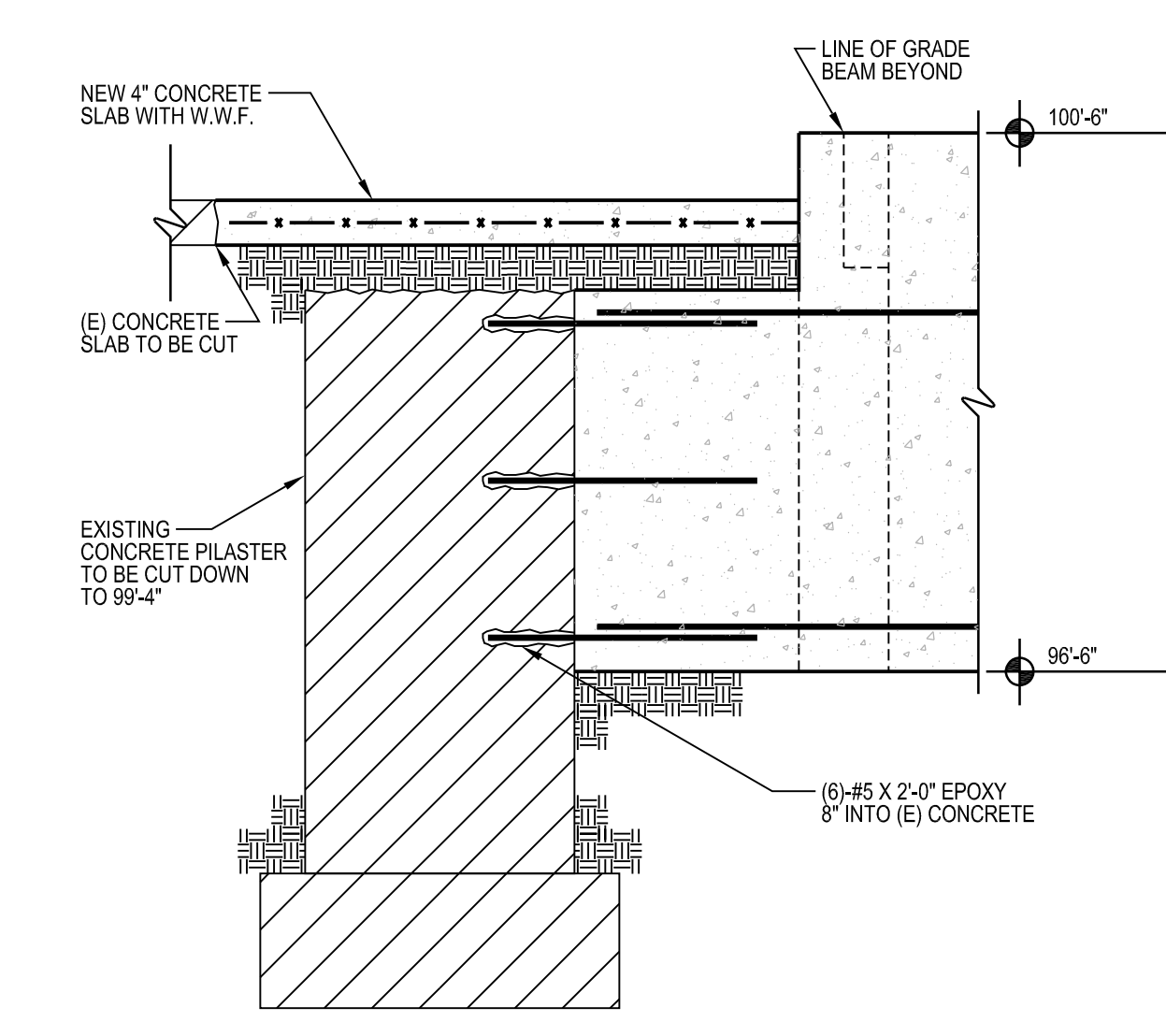
SECTION 6
3/4" = 1'-0"



SECTION 1
3/4" = 1'-0"



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



SECTION 3
3/4" = 1'-0"

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**FRISCO DAY LODGE RENOVATION
 (ALTERNATE #1)
 621 RECREATION WAY
 FRISCO, CO 80443**

PROJ. NO. 117119.00
 DRAWN: MN
 CHECKED: MN
 APPROVED: MN
 DATE: 2018-04-27

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FRISCO DAY LODGE RENOVATION (ALTERNATE #1)
 ISSUED FOR: PERMIT SET

SHEET TITLE: GENERAL NOTES AND DETAILS
 SCALE: 3/4" = 1'-0"
 SHEET NUMBER

S-101



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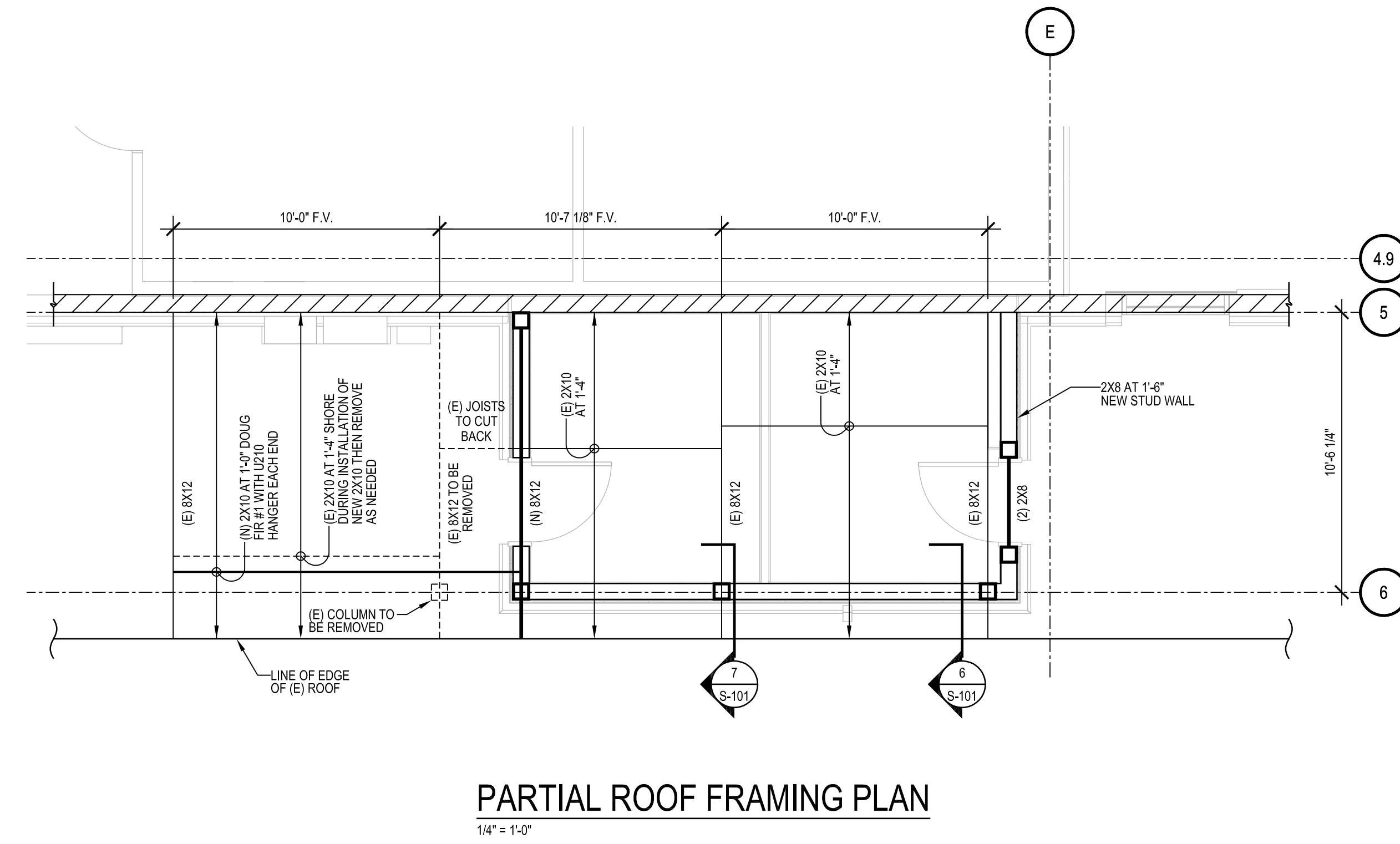
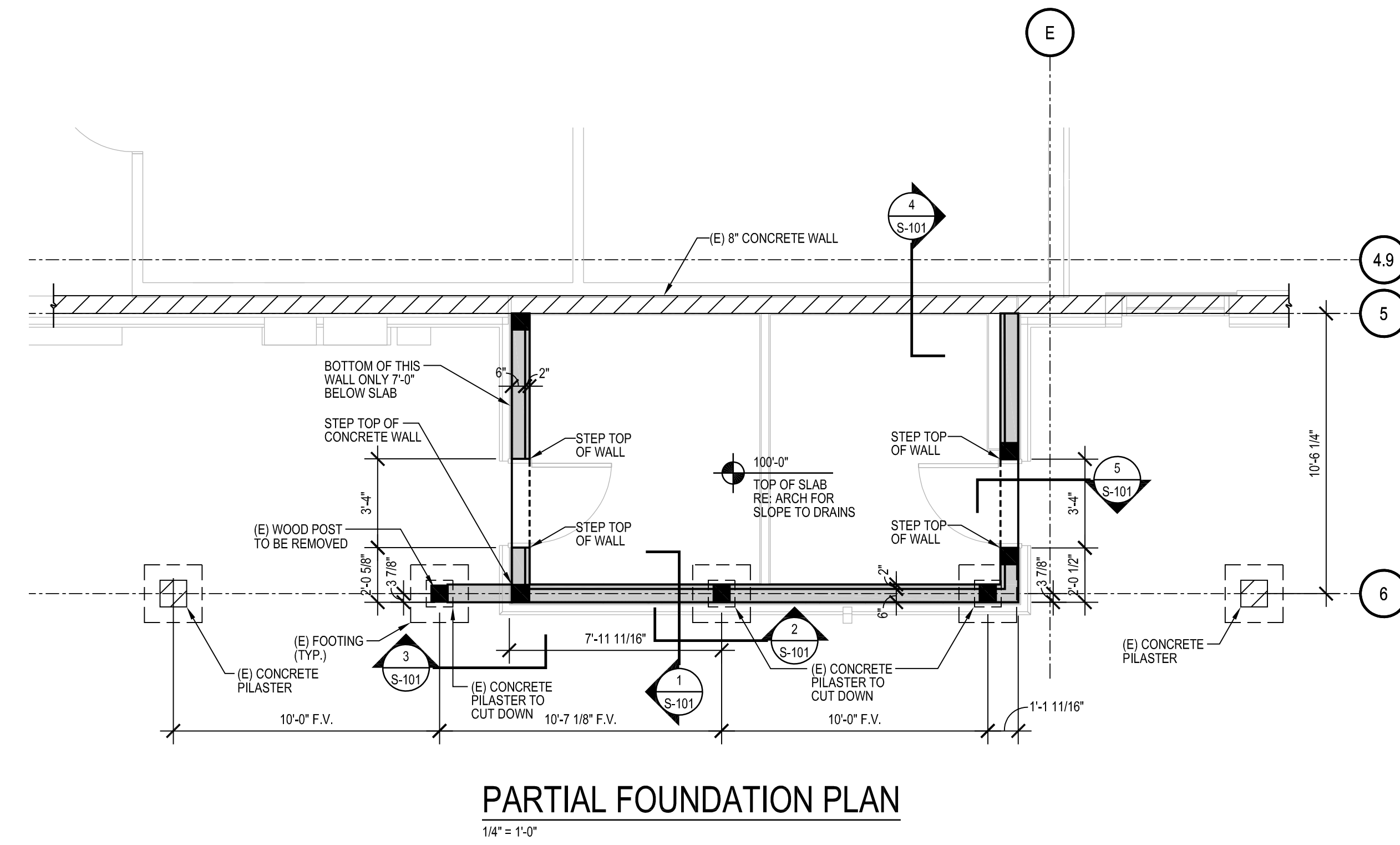
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FRISCO DAY LODGE RENOVATION
 (ALTERNATE #1)
 ISSUED FOR:
 PERMIT SET

SHEET TITLE:
 FRAMING PLANS

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

S-102



PROJECT FLAGNOTES	
NO.	FLAGNOTE
3.02	DIAGONAL CROSSHATCH DENOTES NEW CONCRETE WALK. COLOR SHALL MATCH EXISTING ADJACENT TAN COLOR. BASED ON AS-BUILT INFORMATION THIS IS BELIEVED TO BE DAVIS COLORS. POWDER MIX IN "COCOA" COLOR. GC SHALL PROVIDE COLORED CONCRETE MOCKUP FOR REVIEW PRIOR TO INSTALLATION.
3.03	DIAGONAL HATCH DENOTES NEW CONCRETE WALK. COLOR SHALL MATCH EXISTING ADJACENT GRAY COLOR.
6.01	LINE OF EXISTING ROOF OVERHANG

CODE PLAN TEXT	
1	BUILDING SHALL BE SPRINKLERED THROUGHOUT IN ACCORDANCE WITH IBC CHAPTER 9 AND NFPA 13. PROVIDE DRY SPRINKLER SYSTEM AT UNCONDITIONED LOCATIONS. OF REFUGE IS NOT REQUIRED PER 1007.3 EXCEPTION NO.3.
2	THE GC IS TO COORDINATE FIRE DEPARTMENT CONNECTION (FDC) LOCATION WITH AUTHORITY HAVING JURISDICTION AND ARCHITECT.
3	THE GC IS TO COORDINATE KNOX BOX LOCATION WITH FIRE DEPARTMENT AND ARCHITECT.
4	SEE G SERIES SHEETS FOR LISTED ASSEMBLIES FOR FLOOR/CEILINGS, ROOF/CEILINGS, EXTERIOR WALLS, AND PARTITIONS. LISTED FIRE-RESISTIVE ASSEMBLIES MAY BE SUBSTITUTED WITH APPROVAL OF AUTHORITY HAVING JURISDICTION AND ARCHITECT. PROVIDE DRY SPRINKLER SYSTEM WHERE APPROPRIATE AND AT ALL UNCONDITIONED LOCATIONS.

PROJECT DESCRIPTION:
THE PROJECT SCOPE INCLUDES A 178 SF ADDITION FOR A MEN'S AND WOMEN'S RESTROOM AND ALSO A NEW EXTERIOR DRINKING FOUNTAIN. THIS WORK WILL OCCUR ON LEVEL 1 UNDER THE EXISTING ROOF OVERHANG. THE EXISTING BASEMENT AND ADJACENT LEVEL 1 WILL REMAIN UNDISTURBED AND WILL CONTINUE TO BE USED DURING CONSTRUCTION.

APPLICABLE CODES:
2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL FIRE CODE
2012 INTERNATIONAL FUEL GAS CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2011 NATIONAL ELECTRICAL CODE
2009 INTERNATIONAL ELECTRICAL CODE ADMINISTRATIVE PROVISIONS
2009 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
TOWN OF FRISCO AMENDMENTS TO CODES LISTED ABOVE

ZONING DESIGNATION: PR (PARKS AND RECREATION)
PRIMARY OCCUPANCY CLASSIFICATIONS: A3 (MOST RESTRICTIVE), S1
NONSEPARATE OCCUPANCY CLASSIFICATIONS: A3, B, S2

CONSTRUCTION TYPE: VB

OCCUPANT LOAD: BASEMENT LEVEL = 14 OCCUPANTS
LEVEL 1 (INCL. ADDITION) = 241 OCCUPANTS
TOTAL OCCUPANT LOAD = 255 OCCUPANTS

FIRE SUPPRESSION: FULLY SPRINKLERED PER NFPA 13

ALLOWABLE AREA: BASIC ALLOWABLE = 6,000 SF
SPRINKLER INCREASE = 18,000 SF
FRONTAGE INCREASE = NOT USED / NOT NECESSARY
TOTAL ALLOWABLE = 24,000 SF / STORY
48,000 SF / BUILDING

ACTUAL AREA: BASEMENT FLOOR = 4,001 SF
FIRST FLOOR = 4,080 SF (INCL. 178 SF ADDITION)
TOTAL = 8,081 SF

ALLOWABLE HEIGHT: BASIC ALLOWABLE = 1 STORY, 40 FEET
SPRINKLER INCREASE = 1 STORY, 20 FEET
TOTAL ALLOWABLE = 2 STORIES, 60 FEET

ACTUAL HEIGHT: 1 STORY ABOVE GRADE PLANE, 30 FEET

FIRE RESISTANCE REQUIREMENTS:
PRIMARY STRUCTURAL FRAME: 0 HR
INTERIOR & EXTERIOR BEARING WALLS: 0 HR
INTERIOR & EXTERIOR NONBEARING WALLS: 0 HR
FLOOR CONSTRUCTION: 0 HR
ROOF CONSTRUCTION: 0 HR

EXIT WIDTH:
STAIRS: 0.3' PER OCCUPANT
OTHER COMPONENTS: 0.2' PER OCCUPANT

EXIT ACCESS TRAVEL DISTANCE (MAXIMUM LENGTH): 250 FEET

COMMON PATH OF EGRESS TRAVEL (MAXIMUM LENGTH): 75 FEET

ROOF COVERING CLASSIFICATION (MINIMUM): CLASS C

INTERIOR WALL & CEILING FINISH REQUIREMENTS (MINIMUM):
EXIT STAIRS & EXIT PASSAGEWAYS: CLASS B
CORRIDORS & EXIT ACCESS STAIRS: CLASS B
ROOMS & ENCLOSED SPACES: CLASS C

PLUMBING FIXTURES: THE EXISTING PLUMBING FACILITIES ARE NOT BEING ALTERED AND COMPLY WITH THE CODE REQUIRED COUNTS AS PREVIOUSLY PERMITTED. THE NEW PLUMBING FIXTURES INCLUDED IN THIS SCOPE OF WORK ARE NOT NECESSARY AND ARE ONLY SUPPLEMENTAL TO THE EXISTING FIXTURES.

ACCESSIBILITY: THE RESTROOM ADDITION INCLUDED IN THIS SCOPE OF WORK WILL BE FULLY ACCESSIBLE AS REQUIRED IN



WOMEN'S RR 106				
AREA	OLF	OCC	EXITS	
87 SF	100	1	1	1

MEN'S RR 107				
AREA	OLF	OCC	EXITS	
84 SF	100	1	1	1

CODE SHEET GRAPHICS LEGEND	
	CHAPTER 7 CODE CONSTRUCTION DESIGNATION
	1 HR. RATED ASSEMBLY
	2 HR. RATED ASSEMBLY
	3 HR. RATED ASSEMBLY
	4 HR. RATED ASSEMBLY
	1/2 HR. RATED ASSEMBLY
	SMOKE PARTITION (NON-RATED ASSEMBLY)
	NON-RATED ASSEMBLY
	EXIT LOAD AT DOOR
	REQUIRED EXIT DESIGNATION
	NAMED PATH OF TRAVEL - SEE SCHEDULE FOR TOTAL TRAVEL DISTANCE
	EGRESS PATH
	DIRECTION OF TRAVEL

1 SITE PLAN & BUILDING CODE PLAN
1/8" = 1'-0"

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**FRISCO DAY LODGE RENOVATION
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621 RECREATION WAY
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PROJ. NO. 117119.00
DRAWN: OZ
CHECKED: OZ
APPROVED: OZ
DATE: 2018-04-27

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FRISCO DAY LODGE RENOVATION (ALTERNATE #1)
ISSUED FOR: PERMIT SET

SHEET TITLE:
SITE PLAN & BUILDING CODE PLAN
SCALE: As indicated
SHEET NUMBER
A-100



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4/27/18

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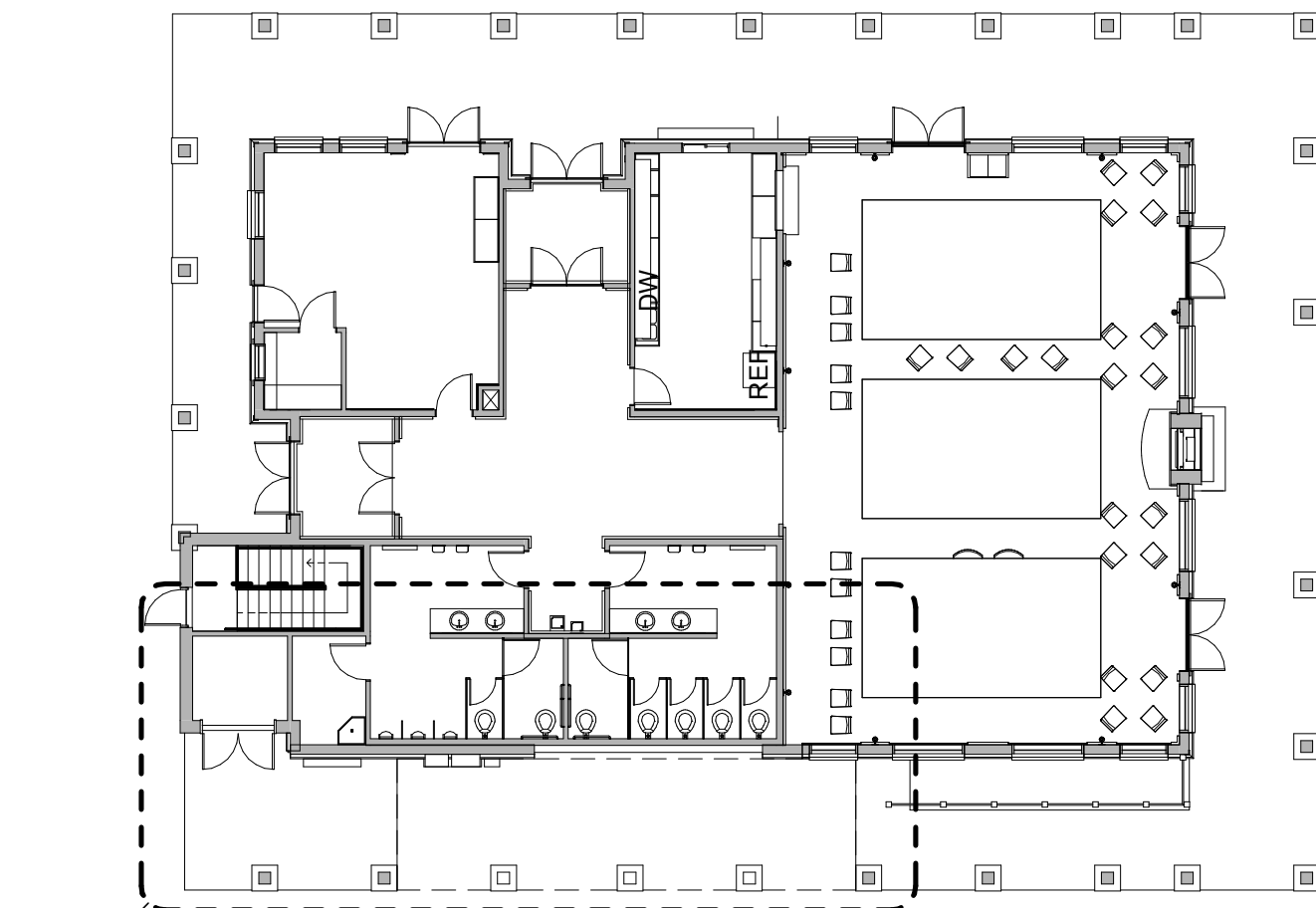
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 RENOVATION
 (ALTERNATE #1)
 ISSUED FOR:
 PERMIT SET

SHEET TITLE:
 DEMO FLOOR PLAN

SCALE: As indicated
 SHEET NUMBER

A-101



2
A-101

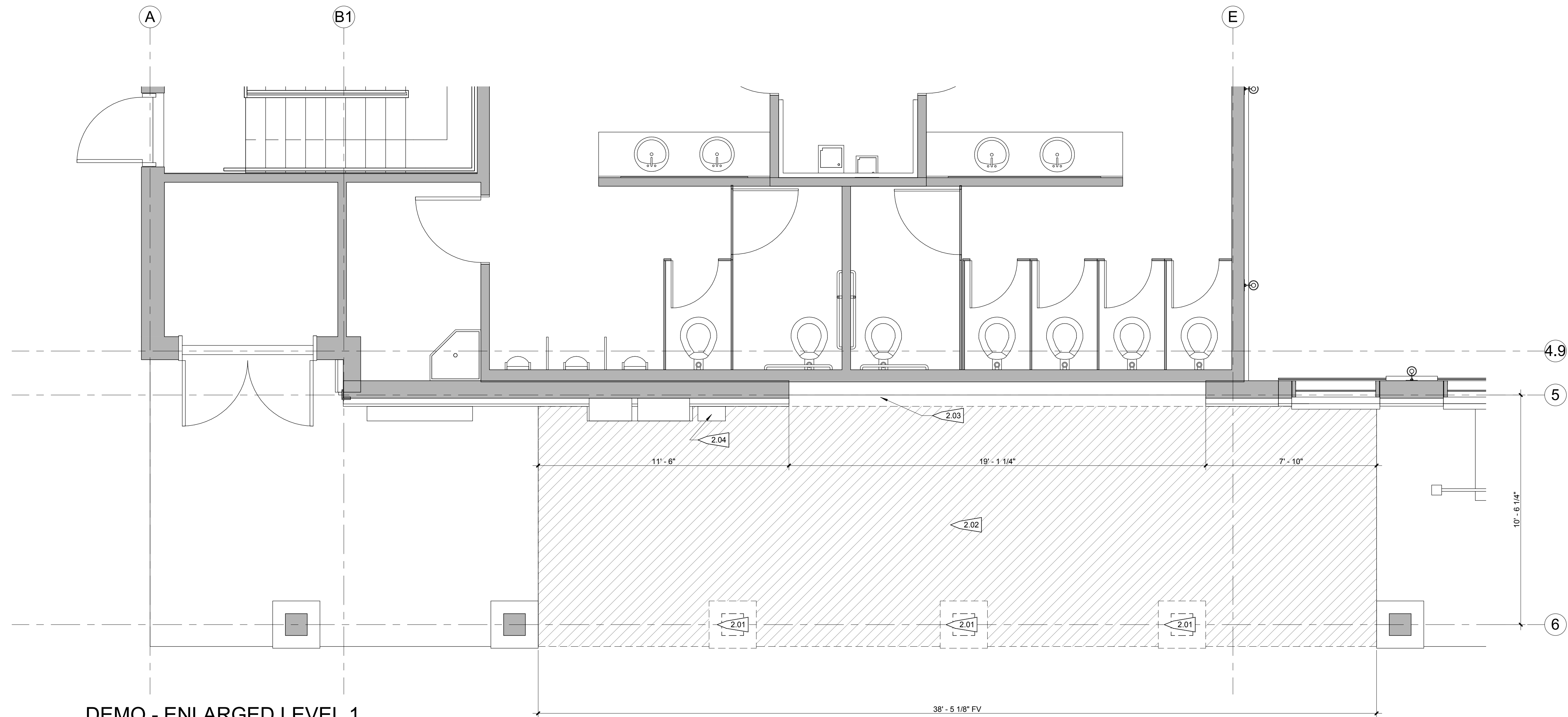
**DEMO - LEVEL 1 FLOOR
 PLAN**

1

1/16" = 1'-0"

PROJECT FLAGNOTES	
NO.	FLAGNOTE
2.01	REMOVE EXISTING WOOD COLUMNS, STONE VENEER AND CONCRETE PLASTER. PREPARE EXISTING CONCRETE COLUMN FOOTING FOR NEW GRADE BEAM & BRACE ROOF AS NECESSARY, RE: STRUCT.
2.02	DEMO EXISTING SLAB
2.03	DEMO EXISTING EXTERIOR WALL FINISH, EXTERIOR SHEATHING AND INSULATION. EXISTING STUD WALL SHALL REMAIN.
2.04	PROTECT EXISTING ELECTRICAL PANEL, METERS AND GAS SERVICE.

FLOOR PLAN NOTES	
1	EL. 100'-0" (LEVEL 1) EQUATES TO USGS DATUM ELEVATION OF 9071.40'.
2	EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING, FACE OF CONCRETE/MASONRY, COLUMN CENTERLINE, OR CENTERLINE OF WINDOW U.N.O.
3	INTERIOR DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR COLUMN CENTERLINE U.N.O. DIMENSIONS DESIGNATED AS "CLEAR" OR "HOLD" SHALL BE MAINTAINED.
5	PARTITION TYPES INDICATED CONTINUE AROUND CORNERS U.N.O.
6	MAINTAIN CONTINUITY OF RATED PARTITIONS AT HEAD AND BOTTOM OF PARTITION AND AT JOINTS WITH DISSIMILAR PARTITIONS WITH LISTED JOINT ASSEMBLIES.
7	WHERE TWO DIFFERING PARTITION TYPES ABUT ALONG A CONTINUOUS LINE, THE CONTINUOUS FINISHED SURFACE OF THESE PARTITIONS SHALL ALIGN U.N.O.
8	WHERE DOORS ARE NOT SPECIFICALLY LOCATED, PROVIDE A HINGE-SIDE JAMB DIMENSION OF 4" FROM DOOR OPENING TO ADJACENT PERPENDICULAR PARTITION.
9	WHERE MECHANICAL DUCTWORK PENETRATES A COMPONENT OF THE FIRE-RATED ASSEMBLY, PROVIDE FIRE AND/OR SMOKE DAMPERS IN ACCORDANCE WITH IBC CHAPTER 7.
10	PROVIDE 1/2" CLEARANCE FROM DUCTWORK FOR VIBRATION ISOLATION.
11	THERE SHALL BE NO EXPOSED PIPES, DUCTS, ETC. ALL SUCH LINES SHALL BE CONCEALED OR FURRED UNLESS SPECIFICALLY NOTED AS EXPOSED CONSTRUCTION.
12	FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION OF BUILT-IN ITEMS.
13	SEE SHEET G-401 FOR MOUNTING HEIGHTS AND BLOCKING FOR FUTURE GRAB BARS.



2

**DEMO - ENLARGED LEVEL 1
 FLOOR PLAN**

3/8" = 1'-0"



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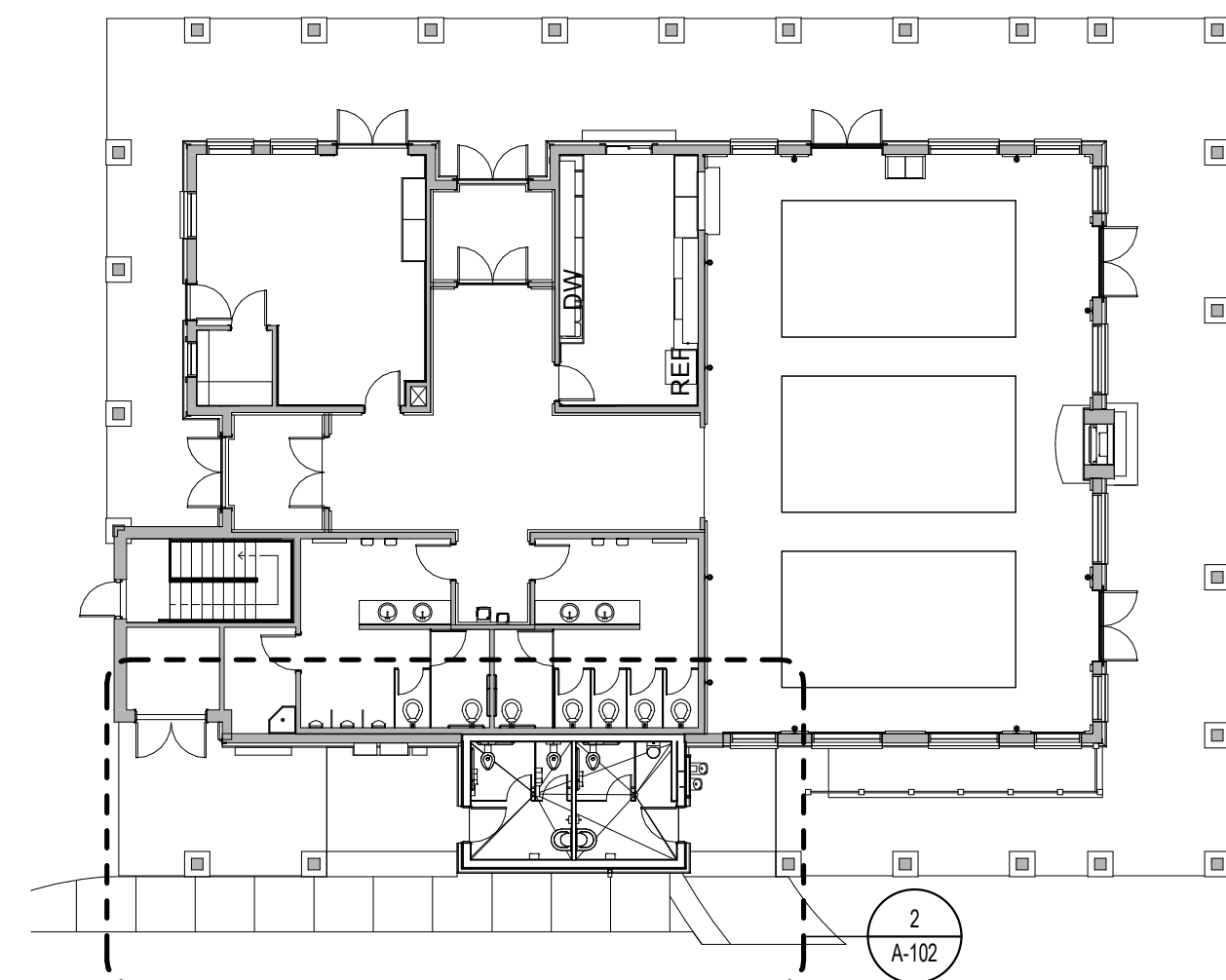
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RENOVATION
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ISSUED FOR:
PERMIT SET

SHEET TITLE:
FLOOR PLAN

SCALE: As indicated
SHEET NUMBER

A-102



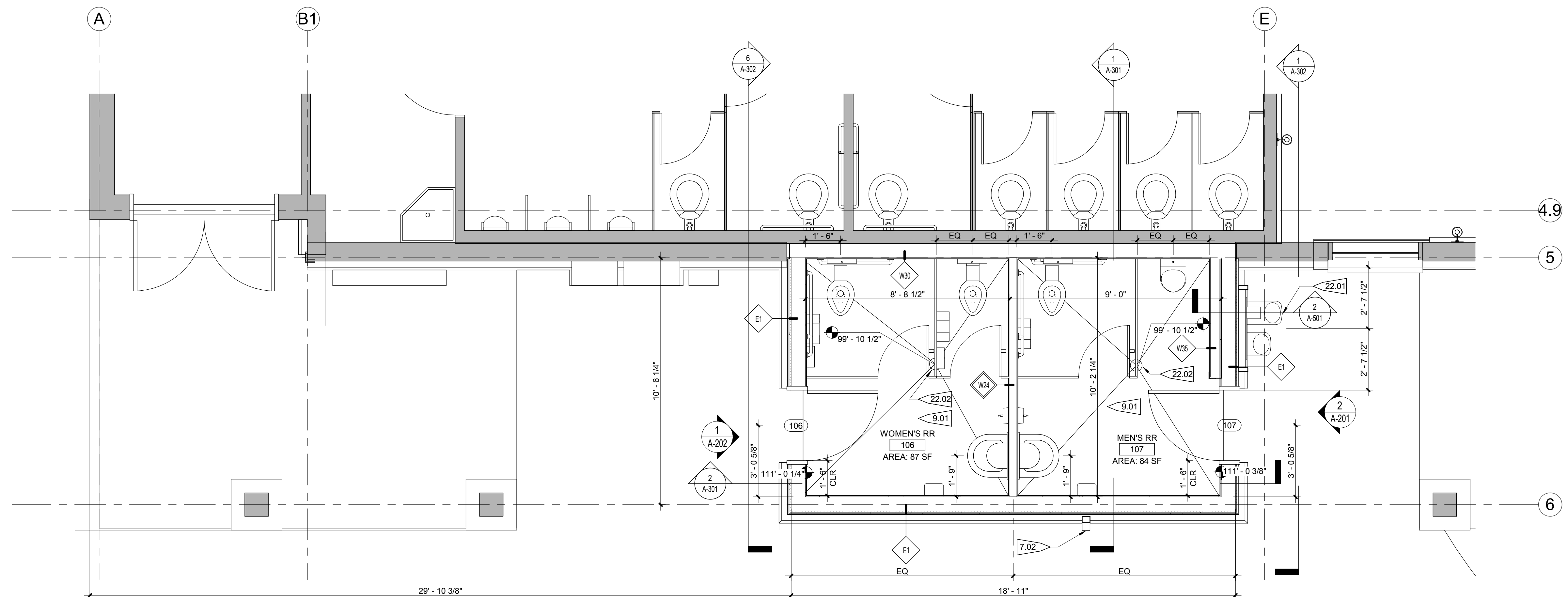
1 NEW - OVERALL FLOOR PLAN

1/16" = 1'-0"

FLOOR PLAN LEGEND	
	EXISTING WALL
	NEW WALL
	AREA NOT IN CONTRACT

PROJECT FLAGNOTES	
NO.	FLAGNOTE
7.02	NEW 3"x4" PREFINISHED METAL DOWNSPOUT. RE: CIVIL FOR TIE IN BELOW SIDEWALK AND CONNECTION TO STORMWATER SYSTEM.
9.01	SLOPE FLOOR TO DRAIN AT 1/4" PER FOOT.
22.01	DRINKING FOUNTAIN. RE: PLUMBING
22.02	FLOOR DRAIN

FLOOR PLAN NOTES	
1	EL. 100'-0" (LEVEL 1) EQUATES TO USGS DATUM ELEVATION OF 9071.40'.
2	EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING, FACE OF CONCRETE/MASONRY, COLUMN CENTERLINE, OR CENTERLINE OF WINDOW U.N.O.
3	INTERIOR DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR COLUMN CENTERLINE U.N.O. DIMENSIONS DESIGNATED AS "CLEAR" OR "HOLD" SHALL BE MAINTAINED.
5	PARTITION TYPES INDICATED CONTINUE AROUND CORNERS U.N.O.
6	MAINTAIN CONTINUITY OF RATED PARTITIONS AT HEAD AND BOTTOM OF PARTITION AND AT JOINTS WITH DISSIMILAR PARTITIONS WITH LISTED JOINT ASSEMBLIES.
7	WHERE TWO DIFFERING PARTITION TYPES ABUT ALONG A CONTINUOUS LINE, THE CONTINUOUS FINISHED SURFACE OF THESE PARTITIONS SHALL ALIGN U.N.O.
8	WHERE DOORS ARE NOT SPECIFICALLY LOCATED, PROVIDE A HINGE-SIDE JAMB DIMENSION OF 4" FROM DOOR OPENING TO ADJACENT PERPENDICULAR PARTITION.
9	WHERE MECHANICAL DUCTWORK PENETRATES A COMPONENT OF THE FIRE-RATED ASSEMBLY, PROVIDE FIRE AND/OR SMOKE DAMPERS IN ACCORDANCE WITH IBC CHAPTER 7.
10	PROVIDE 1/2" CLEARANCE FROM DUCTWORK FOR VIBRATION ISOLATION. THERE SHALL BE NO EXPOSED PIPES, DUCTS, ETC. ALL SUCH LINES SHALL BE CONCEALED OR FURRED UNLESS SPECIFICALLY NOTED AS EXPOSED CONSTRUCTION.
11	FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION OF BUILT-IN ITEMS.
12	FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION OF BUILT-IN ITEMS.
13	SEE SHEET G-401 FOR MOUNTING HEIGHTS AND BLOCKING FOR FUTURE GRAB BARS.



2 NEW - ENLARGED RESTROOM FLOOR PLAN

3/8" = 1'-0"



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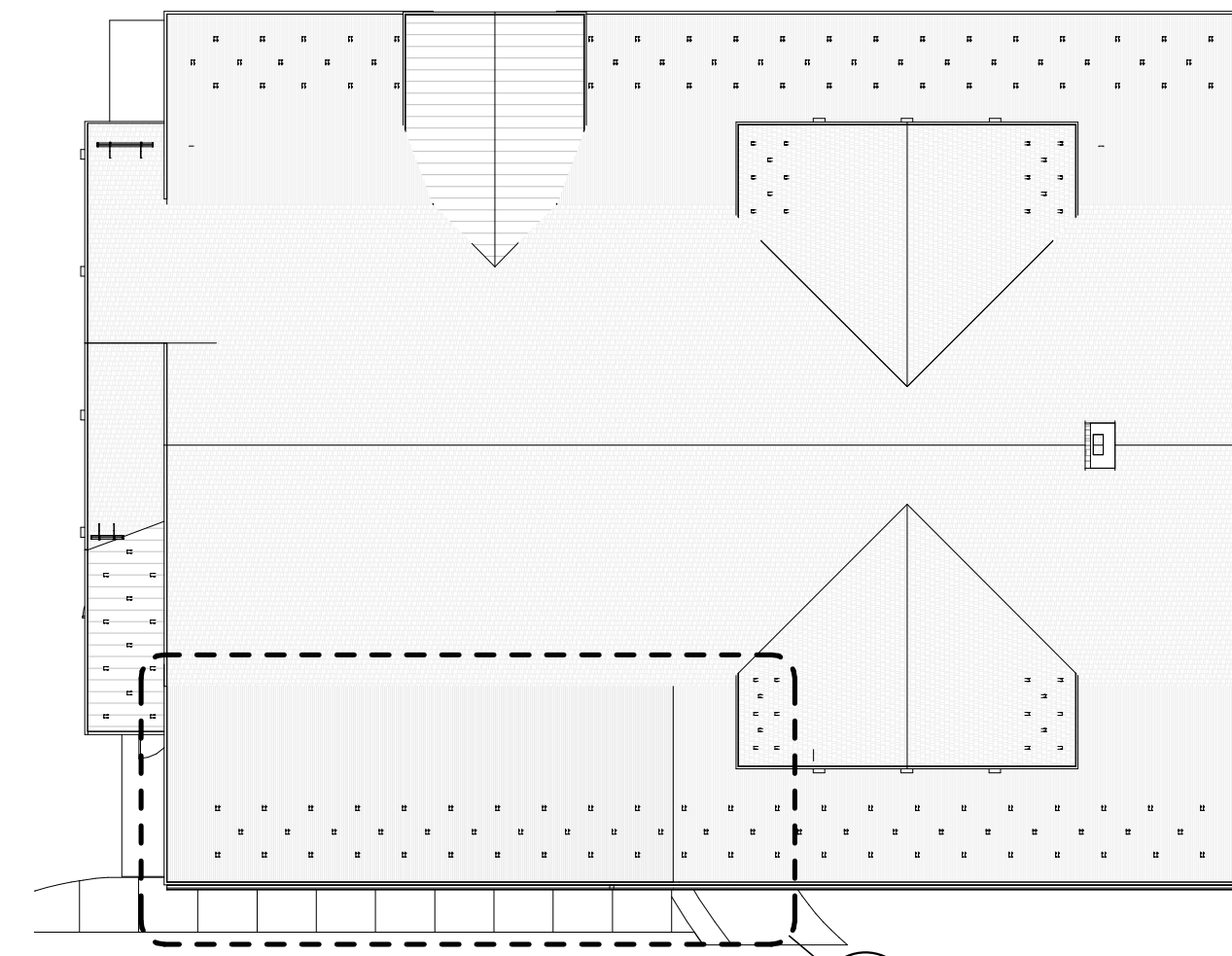
SHEET TITLE:
 ROOF PLAN

SCALE: As indicated
 SHEET NUMBER

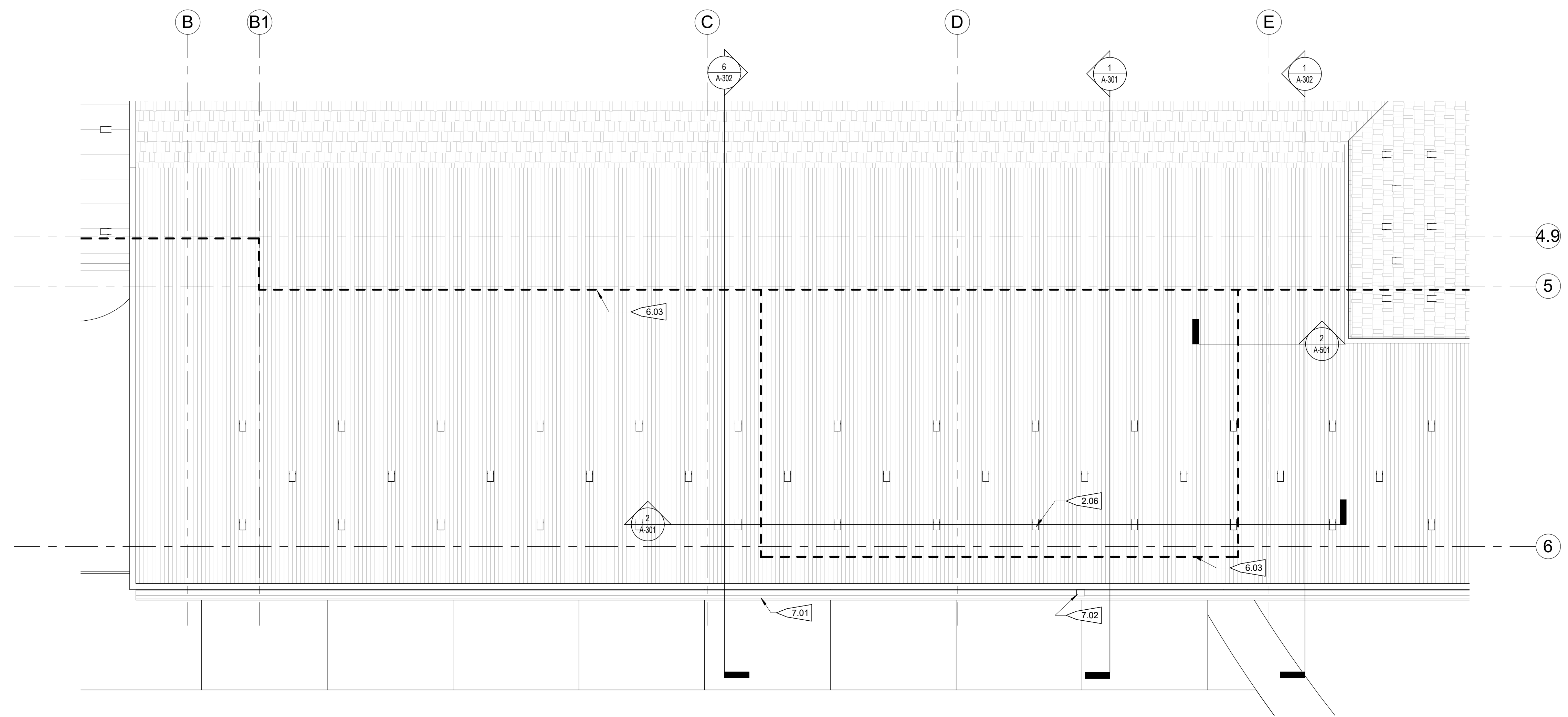
A-103

ROOF PLAN NOTES	
1	MAINTAIN MINIMUM SLOPE OF 1/4" PER FOOT AT ROOF AREAS (INCLUDING CRICKETS). SLOPE VALLEYS A MINIMUM OF 1/8" PER FOOT.

PROJECT FLAGNOTES	
NO.	FLAGNOTE
2.06	EXISTING SNOW CLIP TO REMAIN.
6.03	LINE OF EXTERIOR WALL BELOW
7.01	NEW PREFINISHED METAL ROOF GUTTER. PROFILE AND COLOR SHALL MATCH EXISTING.
7.02	NEW 3"x4" PREFINISHED METAL DOWNSPOUT. RE: CIVIL FOR TIE IN BELOW SIDEWALK AND CONNECTION TO STORMWATER SYSTEM.



2 NEW - OVERALL ROOF PLAN
 1/16" = 1'-0"



1 NEW - ENLARGED RESTROOM ROOF PLAN
 3/8" = 1'-0"



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SHEET TITLE:
 LEVEL 1 RCP

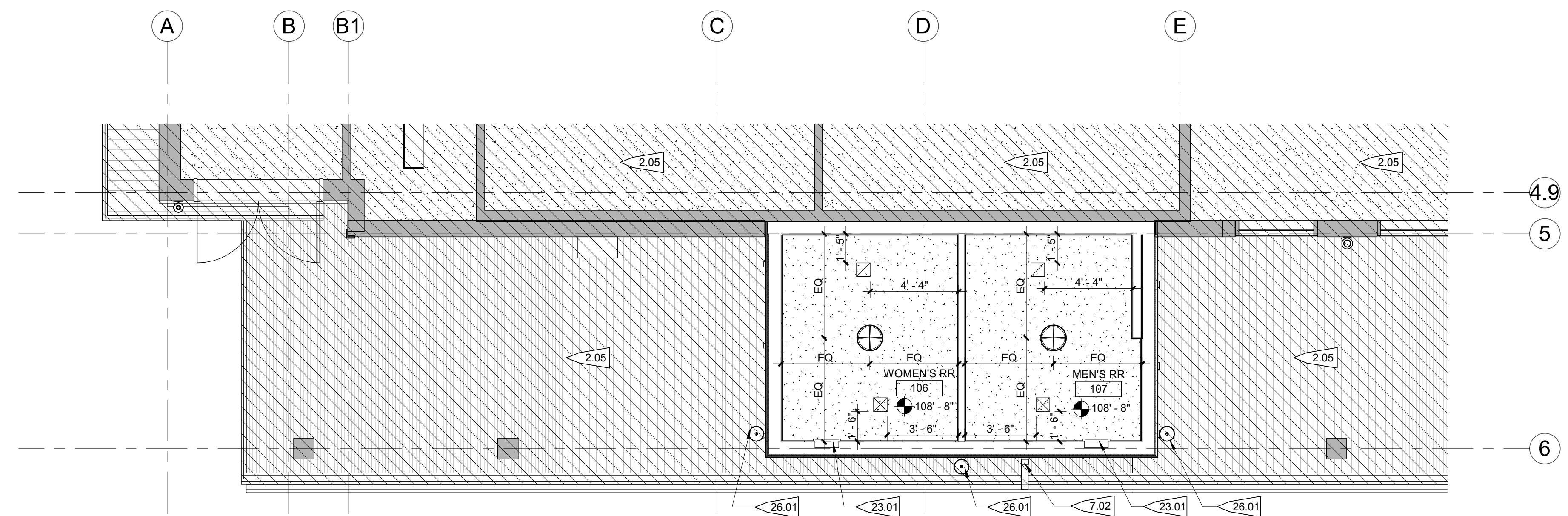
SCALE: As indicated
 SHEET NUMBER

A-131

REFLECTED CEILING PLAN NOTES	
1	REFLECTED CEILING PLANS INDICATE CEILING HEIGHTS AND LOCATION OF LIGHT FIXTURES, DIFFUSERS, DEVICES, AND SIMILAR ITEMS. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ELECTRICAL, HVAC, SPRINKLER AND LIFE SAFETY. IN THE EVENT OF A DISCREPANCY BETWEEN THE ARCHITECT'S REFLECTED CEILING PLAN AND THE ENGINEERS' PLANS, SEEK CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
2	COORDINATE ALL TRADES INVOLVED IN THE CEILING WORK TO ENSURE CLEARANCE FOR FIXTURES, DUCTS, PIPING, CEILING SUSPENSION SYSTEMS, ETC. NECESSARY TO MAINTAIN THE CEILING HEIGHTS INDICATED.
3	DIMENSIONS ARE TO FINISH U.N.O.
4	ACCESS PANELS NOT SHOWN, BUT IF REQUIRED BY PLUMBING, MECHANICAL, OR ELECTRICAL SYSTEMS, SHALL BE REVIEWED WITH ARCHITECT FOR LOCATION.
5	COORDINATE LOCATION OF FIRE SPRINKLER HEADS WITH ARCHITECT.
6	LIGHT FIXTURES, SPRINKLER HEADS, AND OTHER CEILING DEVICES SHALL BE EQUALLY SPACED AND ALIGNED WITH ADJACENT ELEMENTS AND CENTERED ON CEILING TILE. U.N.O.

PROJECT FLAGNOTES	
NO.	FLAGNOTE
2.05	DIAGONAL HATCH DENOTES EXISTING CEILING TO REMAIN.
7.02	NEW 3"x4" PREFINISHED METAL DOWNSPOUT. RE: CIVIL FOR TIE IN BELOW SIDEWALK AND CONNECTION TO STORMWATER SYSTEM.
23.01	WALL MOUNTED CABINET HEATER, RE: MECH
26.01	WALL SCONCE, RE: ELEC

CEILING PLAN LEGEND	
	GYP. BOARD
	EXISTING CEILING TO REMAIN

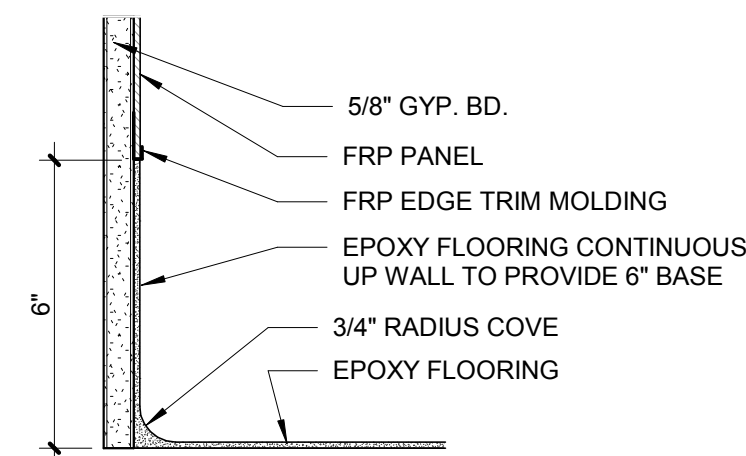


1 LEVEL 1 REFLECTED
 CEILING PLAN
 1/4" = 1'-0"

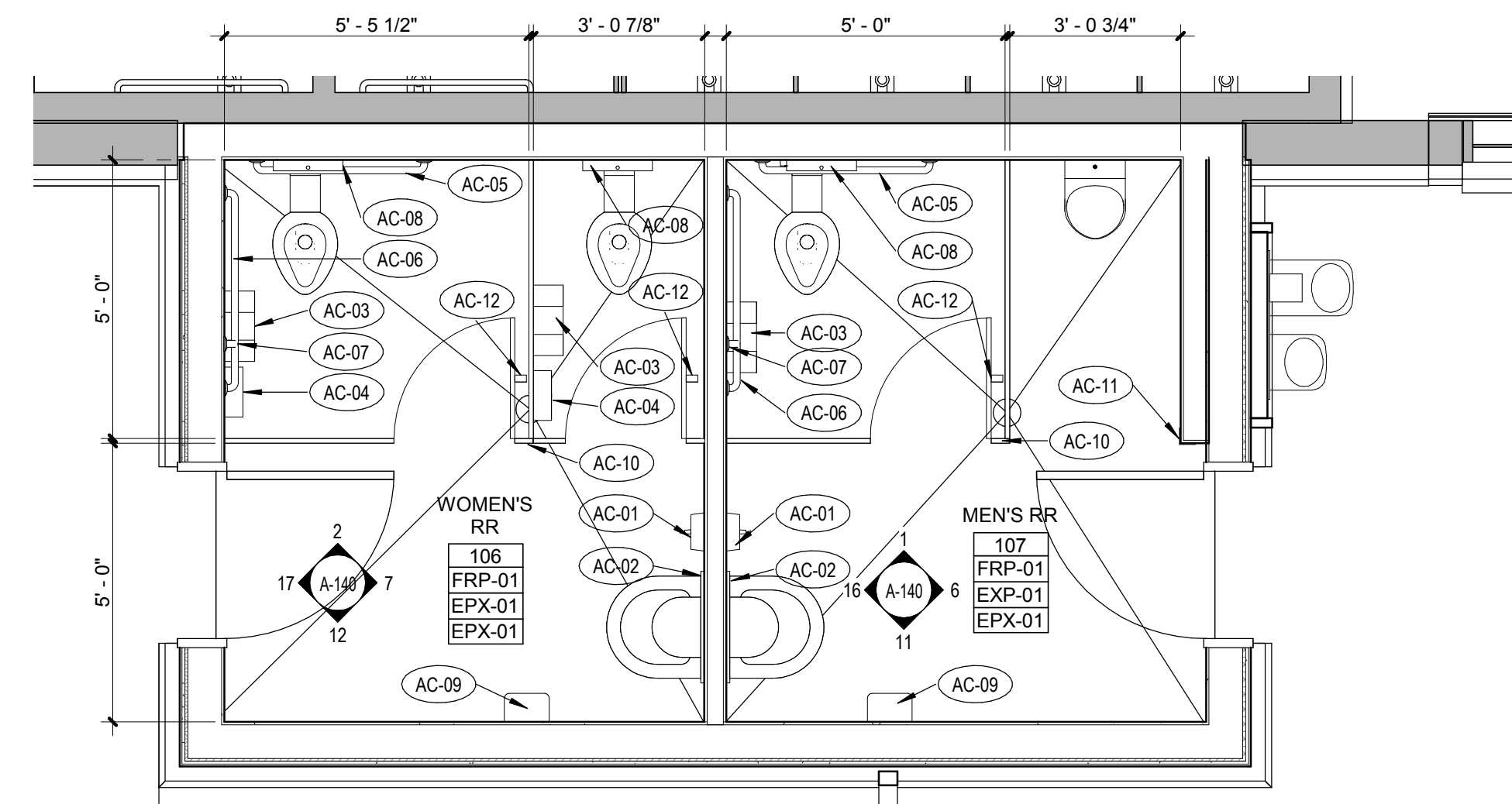
PROJECT FLAGNOTES	
NO.	FLAGNOTE
23.01	WALL MOUNTED CABINET HEATER, RE: MECH

BATHROOM ACCESSORY SCHEDULE				
MARK	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
AC-01	Soap Dispenser	Bradley Corporation	6542	
AC-02	Mirror	Bradley Corporation	780-2436	
AC-03	Toilet Tissue Dispenser OptiCore	Tork	565828	3 Roll Bath Tissue Roll Dispenser for OptiCore
AC-04	Napkin Disposal, 1.5 Gallons, Surface-Mounted	Bradley Corporation	4722-150000	
AC-05	Grab Bars	Bradley Corporation	8120-001360	
AC-06	Grab Bars	Bradley Corporation	8120-001420	
AC-07	Grab Bars	Bradley Corporation	8120-001180	
AC-08	Seat Cover Dispenser	Bradley Corporation	583	
AC-09	Hand Dryer	Toto	HDR130#SV	
AC-10	Restroom Partition	Bradley Corporation	400	Stainless Steel Sentinel Series - Floor-Mounted & Overhead Braced
AC-11	Corner Guard	Inpro Corporation	304	Stainless Steel; 3.5" x 3.5" x Full Height (floor to ceiling)
AC-12	Coat Hook & Bumper	Bradley Corporation	915	

FINISH PLAN NOTES	
1	DIMENSIONS ARE TO FACE OF FINISH U.N.O.
5	FLOOR MATERIAL TRANSITIONS SHALL OCCUR AT THE CENTERLINE OF DOORS U.N.O.
6	FLOORING TO EXTEND UNDER COUNTERS, WORKSURFACES, APPLIANCES AND REMOVABLE BASE CABINETS.
7	PAINT TRANSITIONS TO OCCUR AT INSIDE CORNERS U.N.O.
8	PAINT GYP BOARD WALLS P-01 U.N.O.
9	PAINT DOOR FRAMES P-01 U.N.O.
11	PAINT EXPOSED CONDUIT, PIPING, ETC. TO MATCH ADJACENT FINISH.

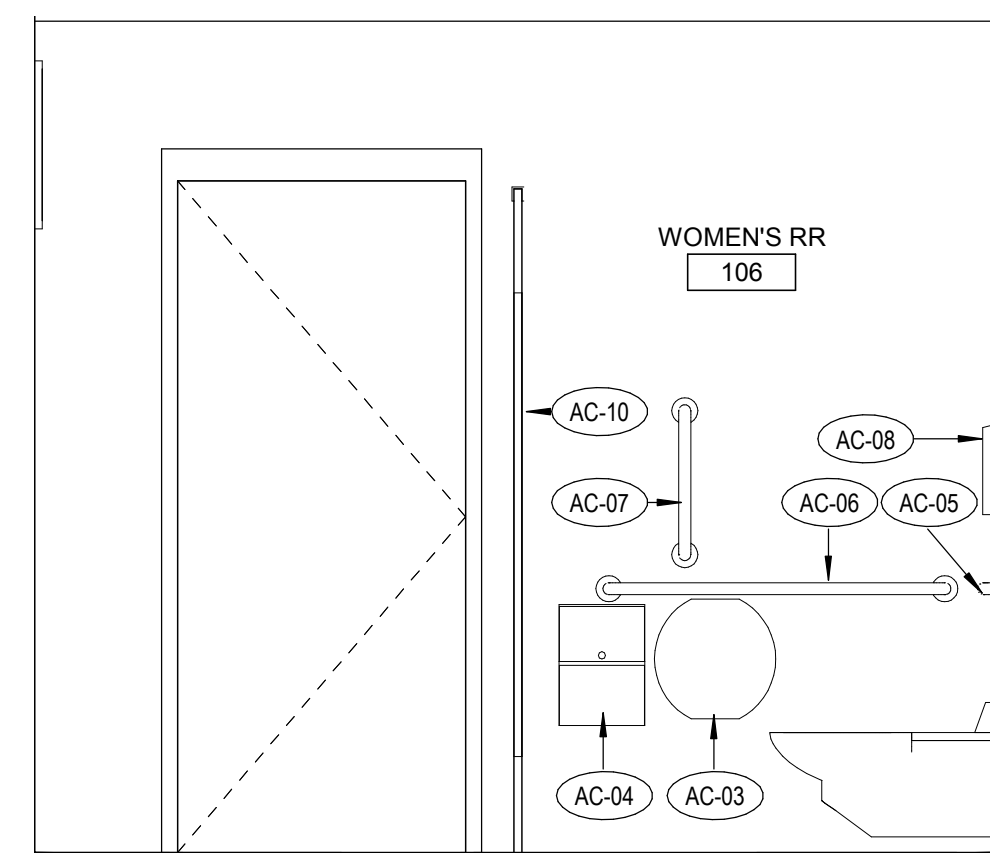


18 FRP TO BASE TRANSITION
3" = 1'-0"

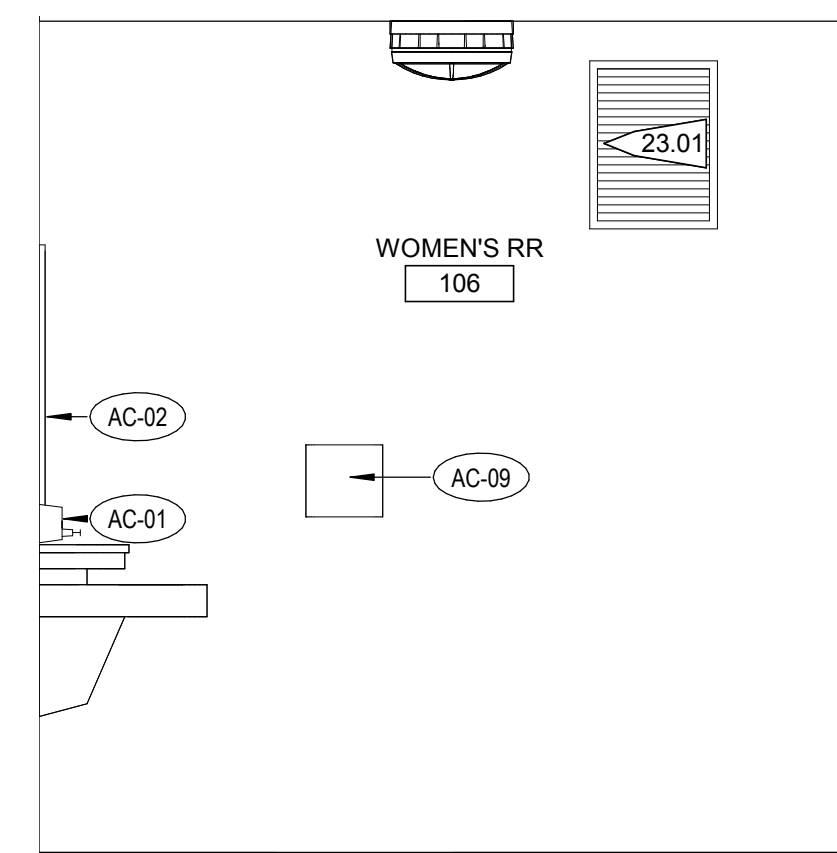


15 NEW - ENLARGED RESTROOM INTERIOR FINISH PLAN
3/8" = 1'-0"

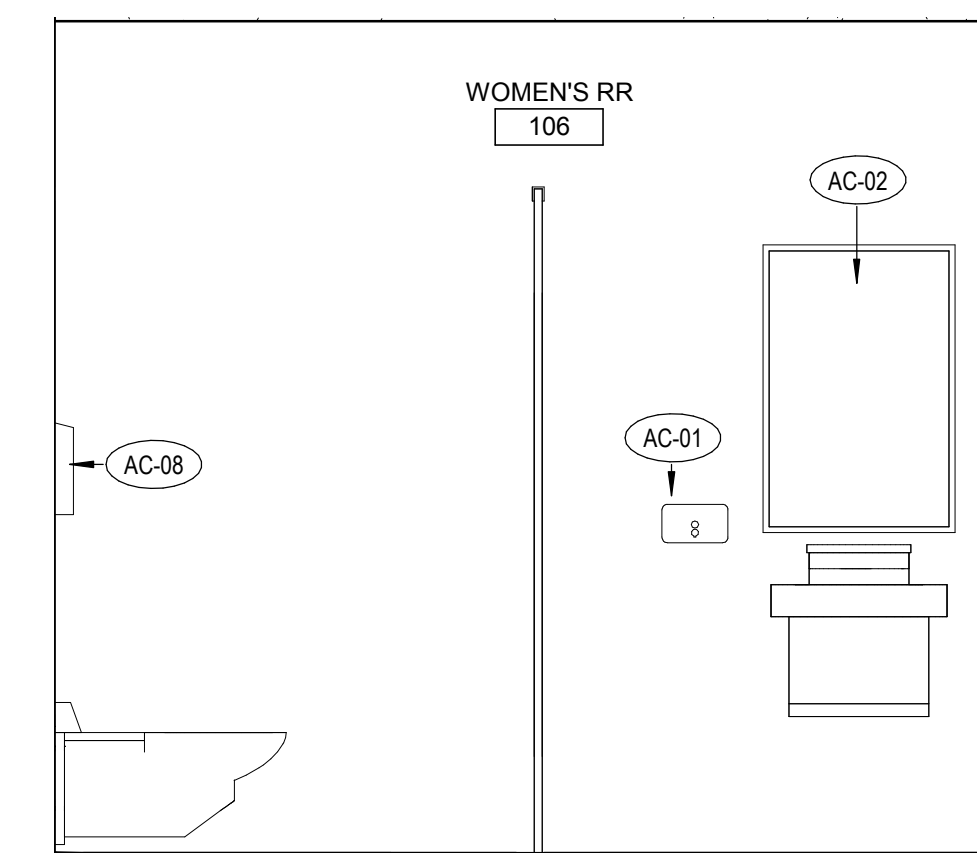
FINISH PLAN LEGEND	
Room name	
1028	
P-10	WALL FINISH
RB-10	BASE FINISH
CPT-1	FLOOR FINISH
FRP-01	MFR/PRODUCT: MARLITE FIBER REINFORCED PLASTIC COLOR: WHITE COMMENTS: SMOOTH TEXTURE
EPX-01	MFR/PRODUCT: STONHARD, STONSHIELD COLOR: SILVER GRAY COMMENTS: PROVIDE TEXTURE
P-01	MFR/PRODUCT: BENJAMIN MOORE COLOR: OC-17 "WHITE DOVE" COMMENTS: SEMI-GLOSS



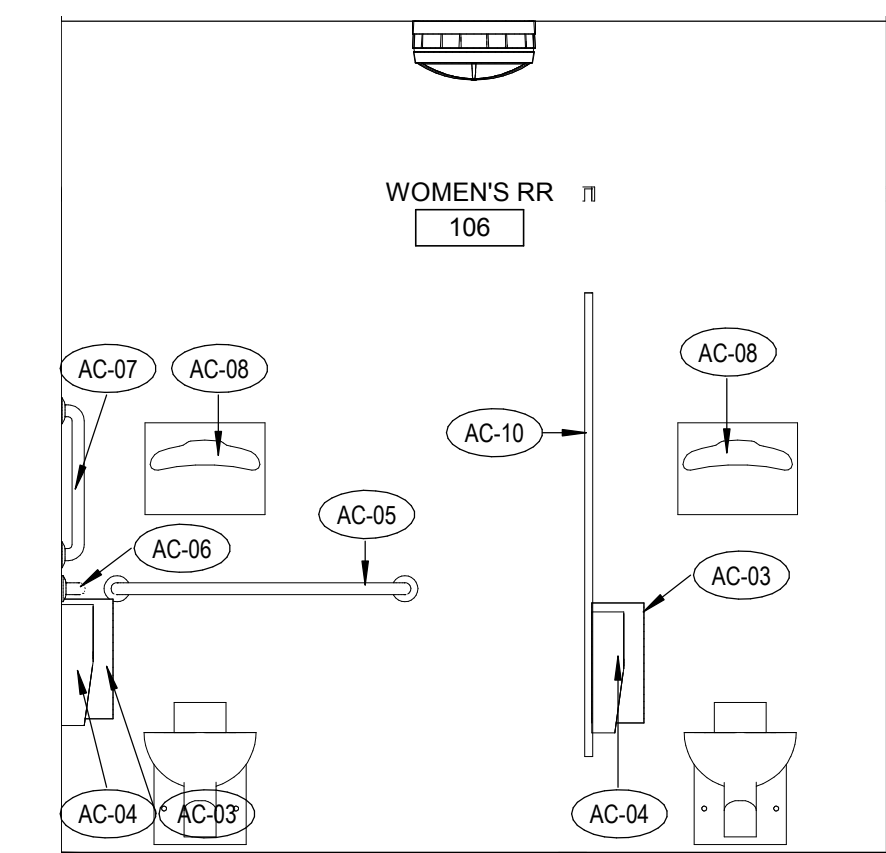
17 MEN'S RR - WEST
1/2" = 1'-0"



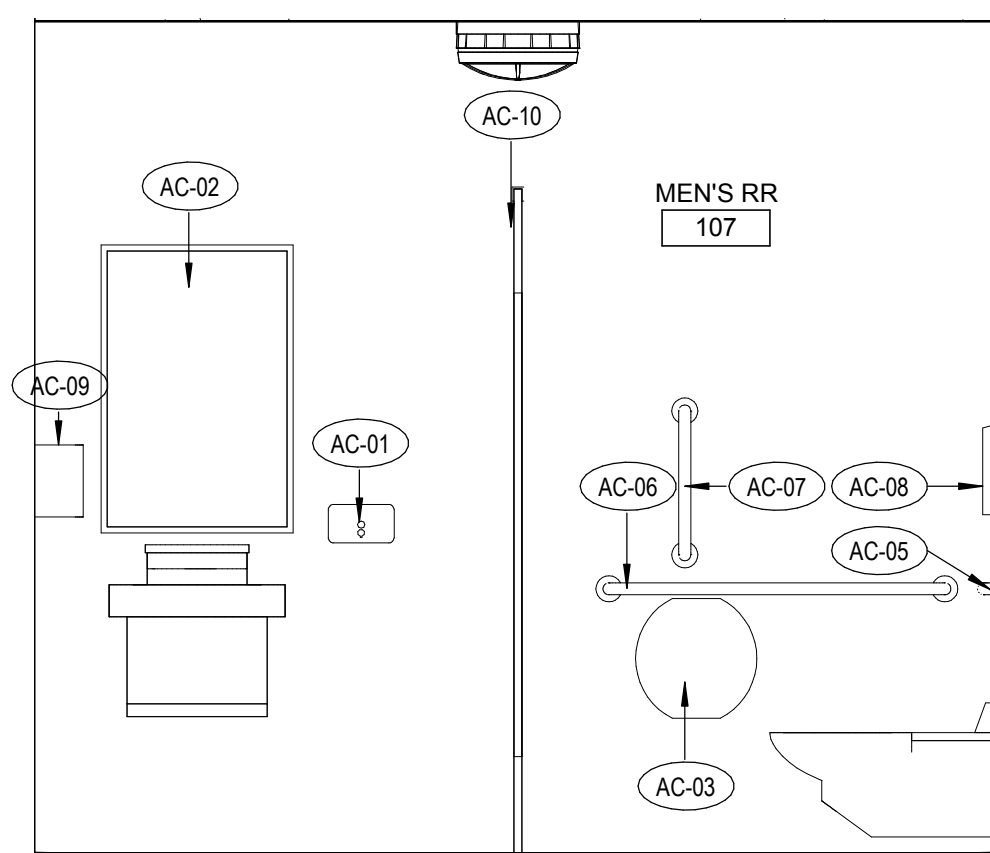
12 MEN'S RR - SOUTH
1/2" = 1'-0"



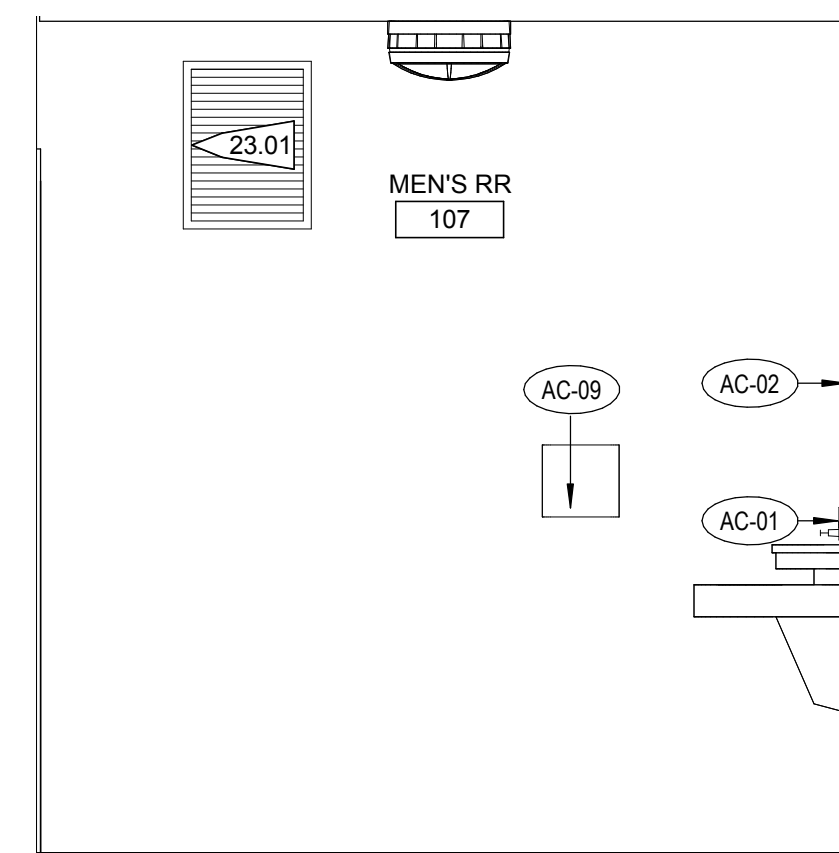
7 MEN'S RR - EAST
1/2" = 1'-0"



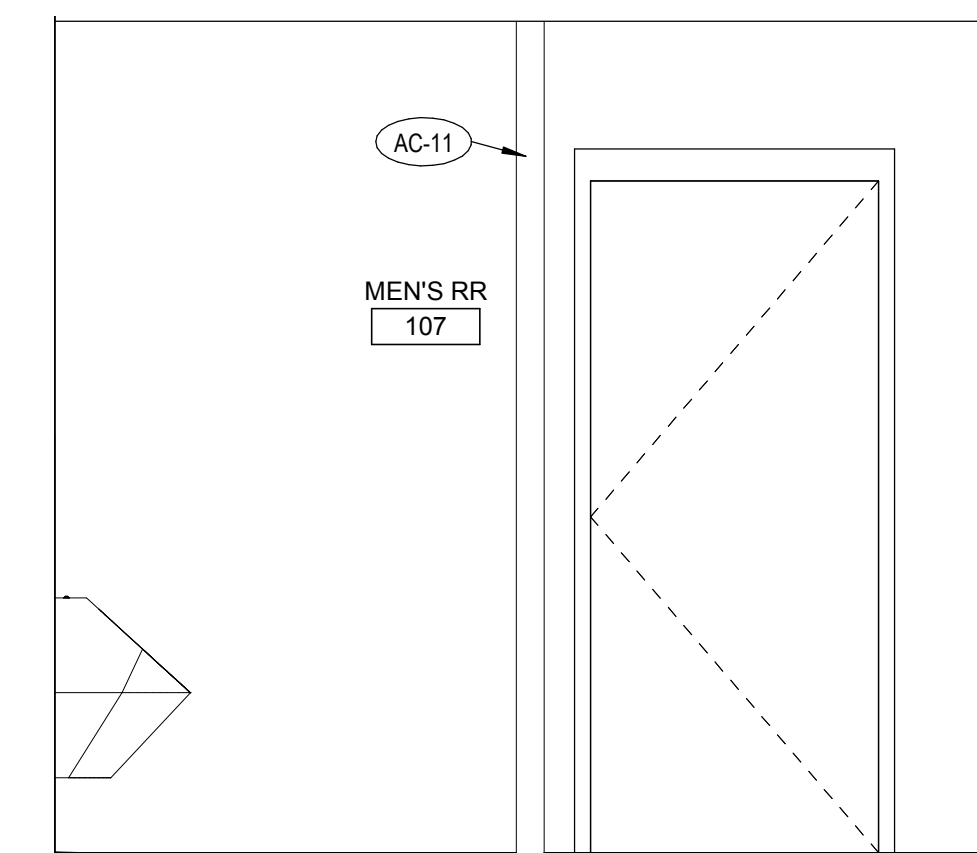
2 MEN'S RR - NORTH
1/2" = 1'-0"



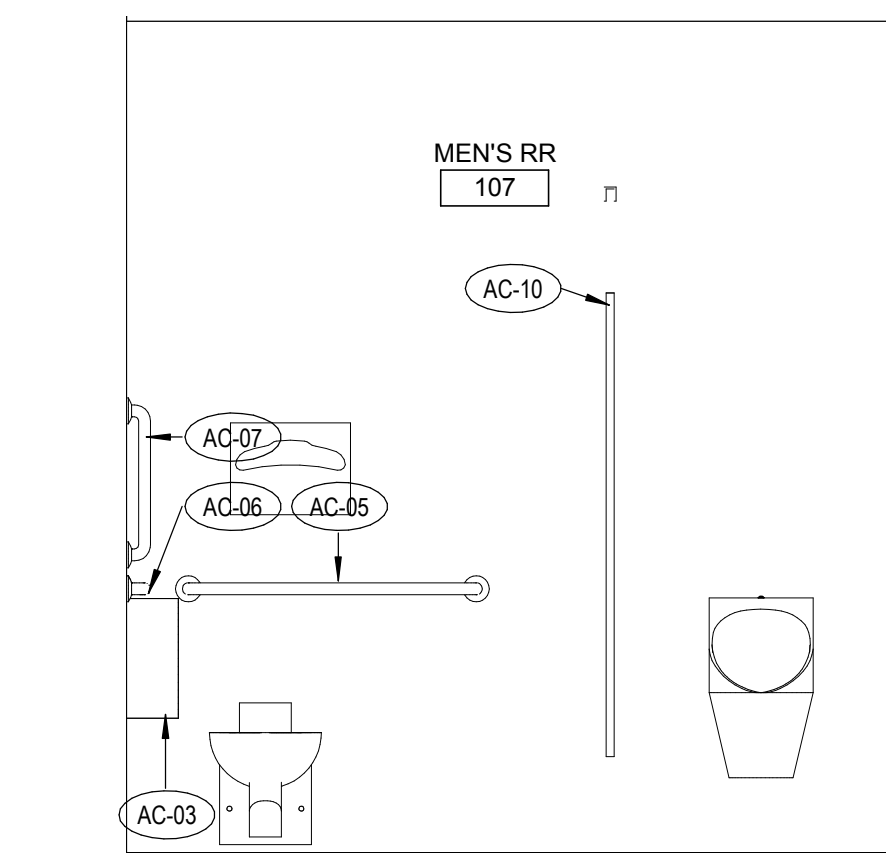
16 WOMEN'S RR - WEST
1/2" = 1'-0"



11 WOMEN'S RR - SOUTH
1/2" = 1'-0"



6 WOMEN'S RR - EAST
1/2" = 1'-0"



1 WOMEN'S RR - NORTH
1/2" = 1'-0"



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4/27/18

**FRISCO DAY LODGE RENOVATION
(ALTERNATE #1)
621 RECREATION WAY
FRISCO, CO 80443**

PROJ. NO. 117119.00
 DRAWN: OZ
 CHECKED: OZ
 APPROVED: OZ
 DATE: 2018-04-27

© OZ ARCHITECTURE

FRISCO DAY LODGE
 RENOVATION
 (ALTERNATE #1)
 ISSUED FOR:
 PERMIT SET

SHEET TITLE:
 INTERIOR FINISH PLAN
 & LEGEND

SCALE: As indicated
 SHEET NUMBER

A-140



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4/27/18

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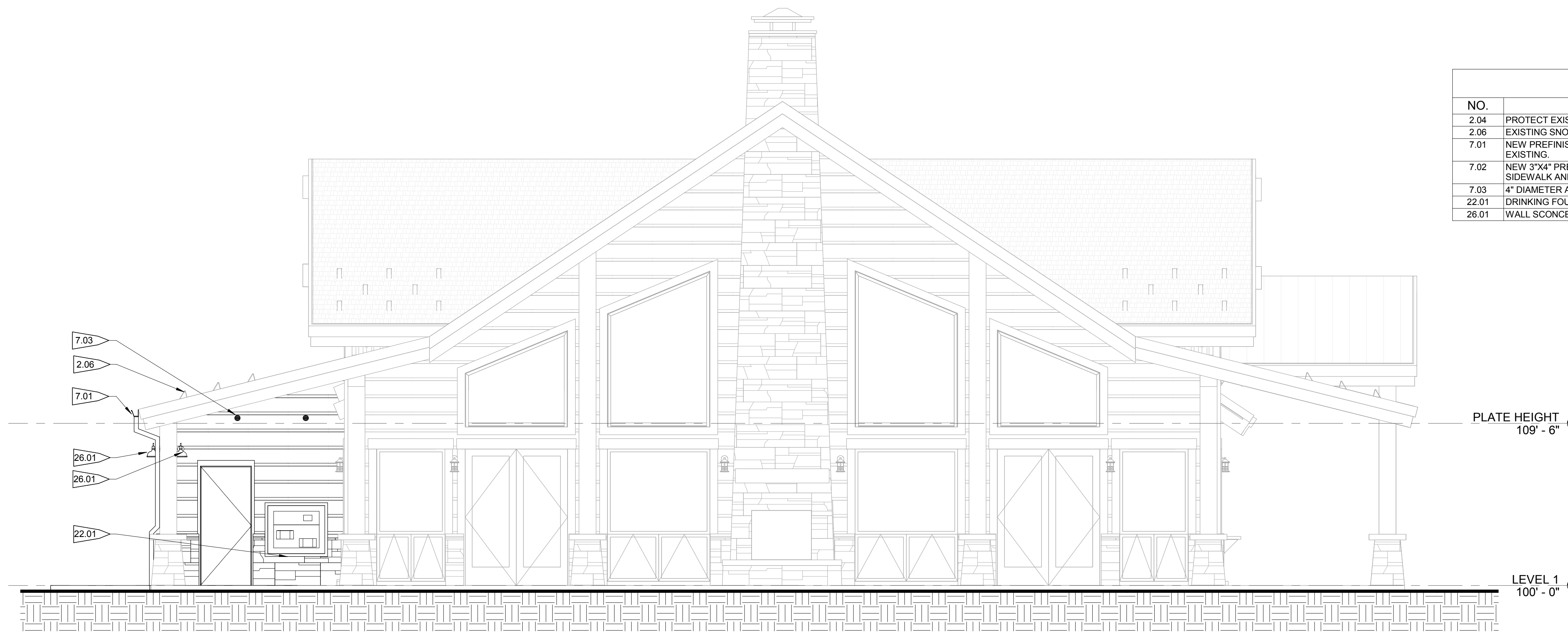
FRISCO DAY LODGE
 RENOVATION
 (ALTERNATE #1)
 ISSUED FOR:
 PERMIT SET

SHEET TITLE:
 BUILDING ELEVATIONS

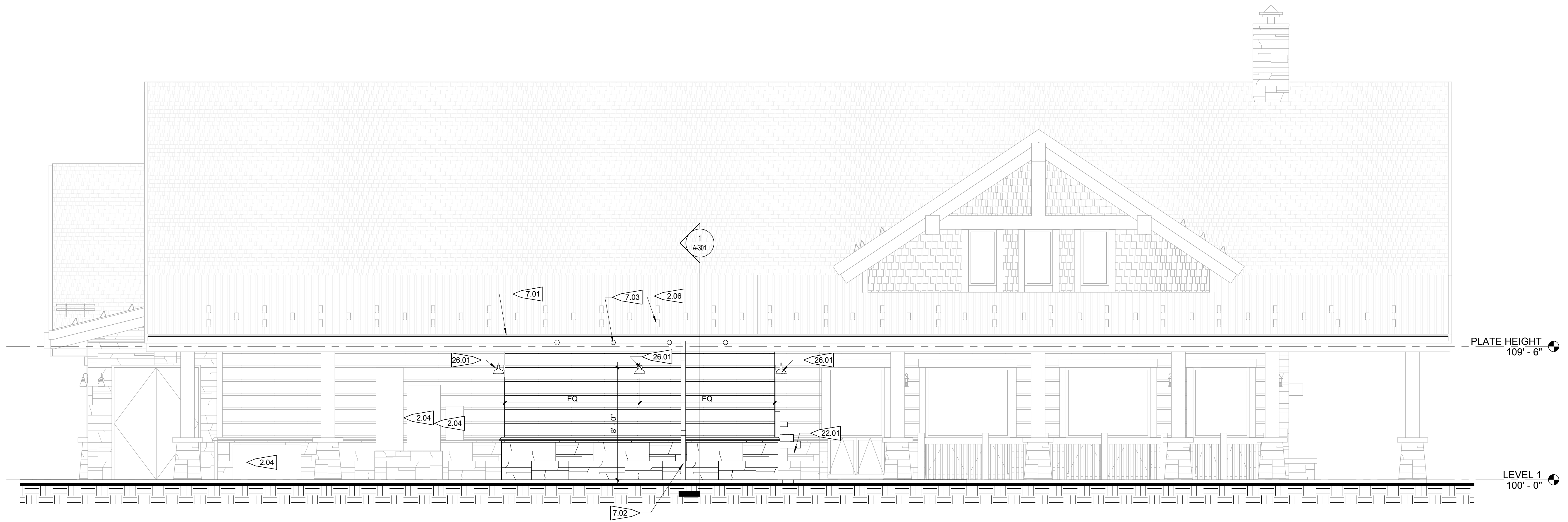
SCALE: 1/4" = 1'-0"
 SHEET NUMBER

A-201

PROJECT FLAGNOTES	
NO.	FLAGNOTE
2.04	PROTECT EXISTING ELECTRICAL PANEL, METERS AND GAS SERVICE.
2.06	EXISTING SNOW CLIP TO REMAIN.
7.01	NEW PREFINISHED METAL ROOF GUTTER. PROFILE AND COLOR SHALL MATCH EXISTING.
7.02	NEW 3"x4" PREFINISHED METAL DOWNSPOUT. RE: CIVIL FOR TIE IN BELOW SIDEWALK AND CONNECTION TO STORMWATER SYSTEM.
7.03	4" DIAMETER ATTIC VENT TO MATCH EXISTING ADJACENT VENTS.
22.01	DRINKING FOUNTAIN. RE: PLUMBING
26.01	WALL SCONCE. RE: ELEC



2 EAST ELEVATION
 1/4" = 1'-0"



1 SOUTH ELEVATION
 1/4" = 1'-0"



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PROJ. NO. 117119.00
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 CHECKED: OZ
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 DATE: 2018-04-27

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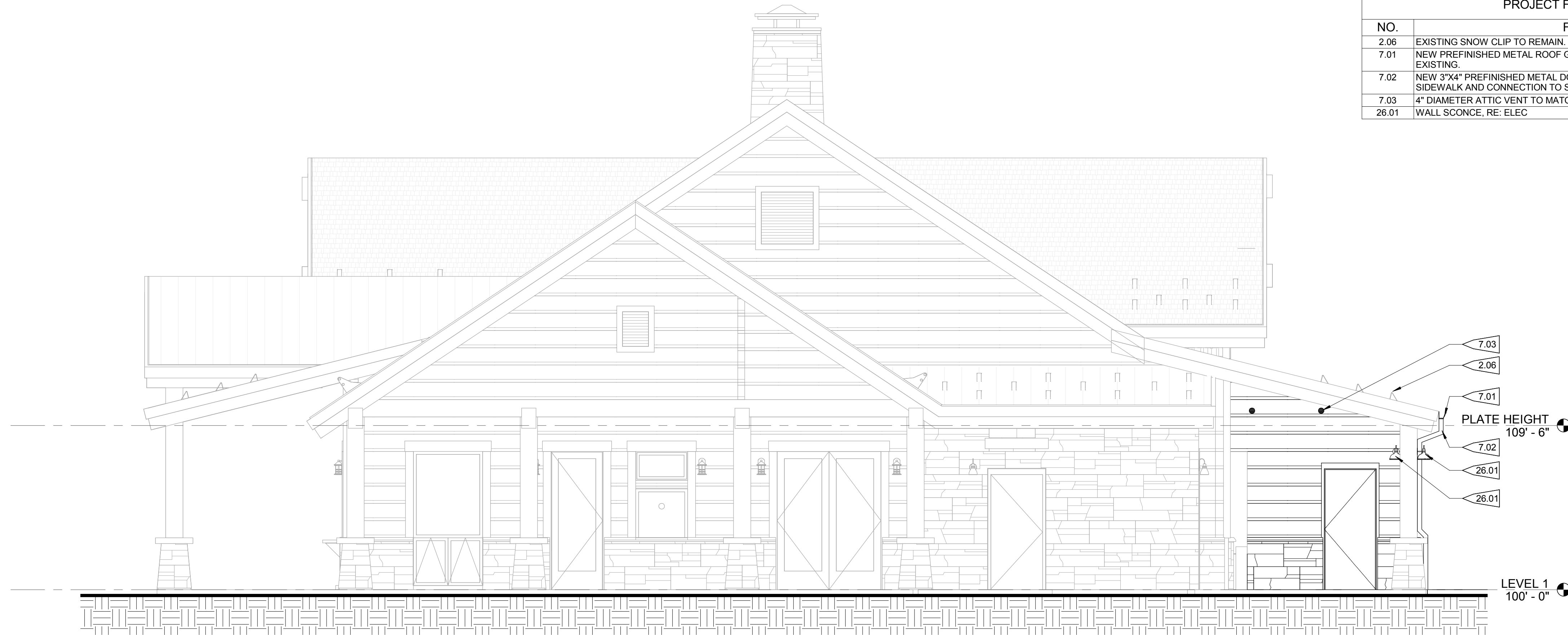
FRISCO DAY LODGE
 RENOVATION
 (ALTERNATE #1)
 ISSUED FOR:
 PERMIT SET

SHEET TITLE:
 BUILDING ELEVATIONS

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

A-202

PROJECT FLAGNOTES	
NO.	FLAGNOTE
2.06	EXISTING SNOW CLIP TO REMAIN.
7.01	NEW PREFINISHED METAL ROOF GUTTER. PROFILE AND COLOR SHALL MATCH EXISTING.
7.02	NEW 3"x4" PREFINISHED METAL DOWNSPOUT. RE: CIVIL FOR TIE IN BELOW SIDEWALK AND CONNECTION TO STORMWATER SYSTEM.
7.03	4" DIAMETER ATTIC VENT TO MATCH EXISTING ADJACENT VENTS.
26.01	WALL SCONCE, RE: ELEC



1 WEST ELEVATION
 1/4" = 1'-0"



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4/27/18

**FRISCO DAY LODGE RENOVATION
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 621 RECREATION WAY
 FRISCO, CO 80443**

PROJ. NO. 117119.00
 DRAWN: OZ
 CHECKED: OZ
 APPROVED: OZ
 DATE: 2018-04-27

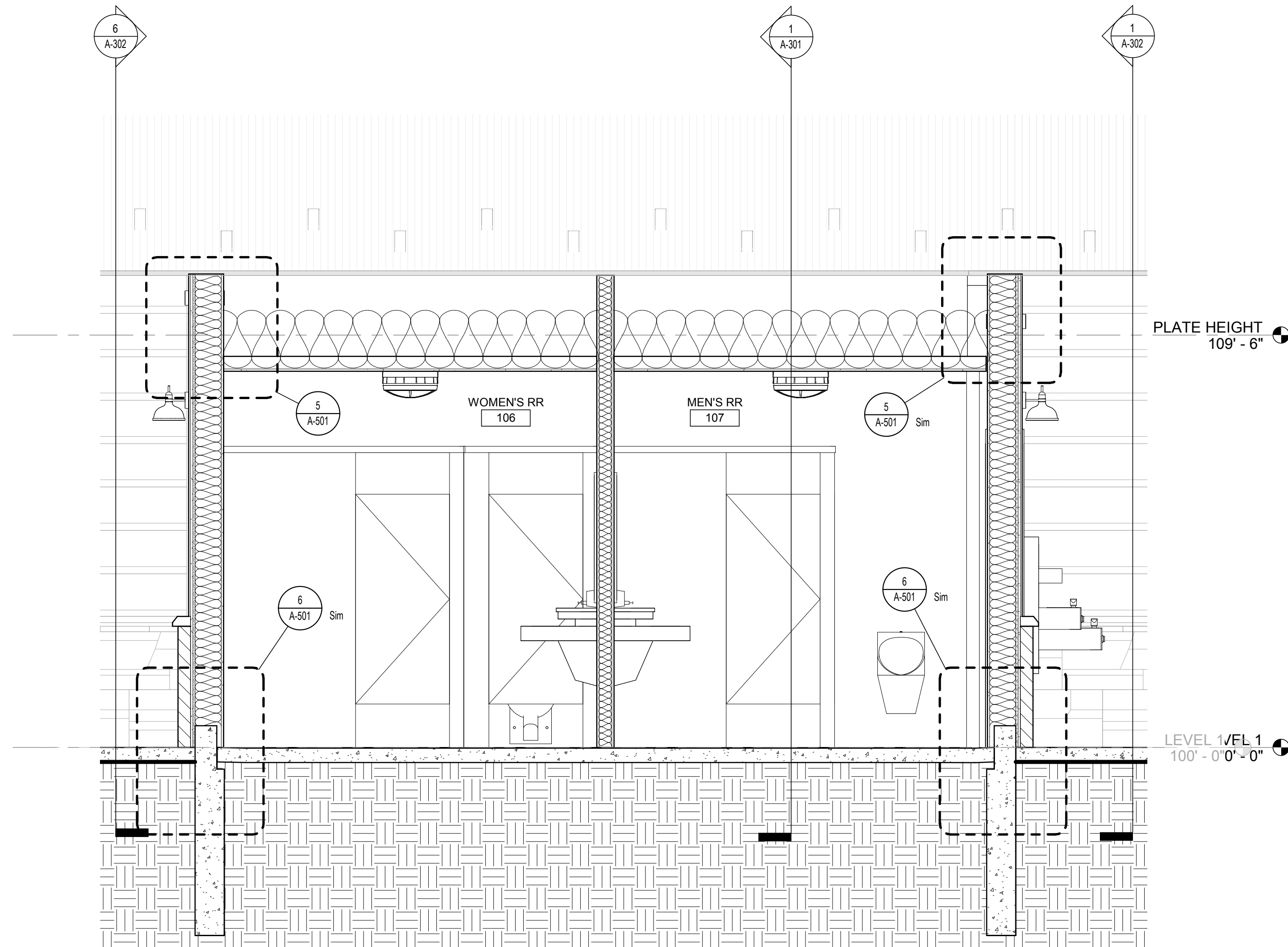
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FRISCO DAY LODGE
 RENOVATION
 (ALTERNATE #1)
 ISSUED FOR:
 PERMIT SET

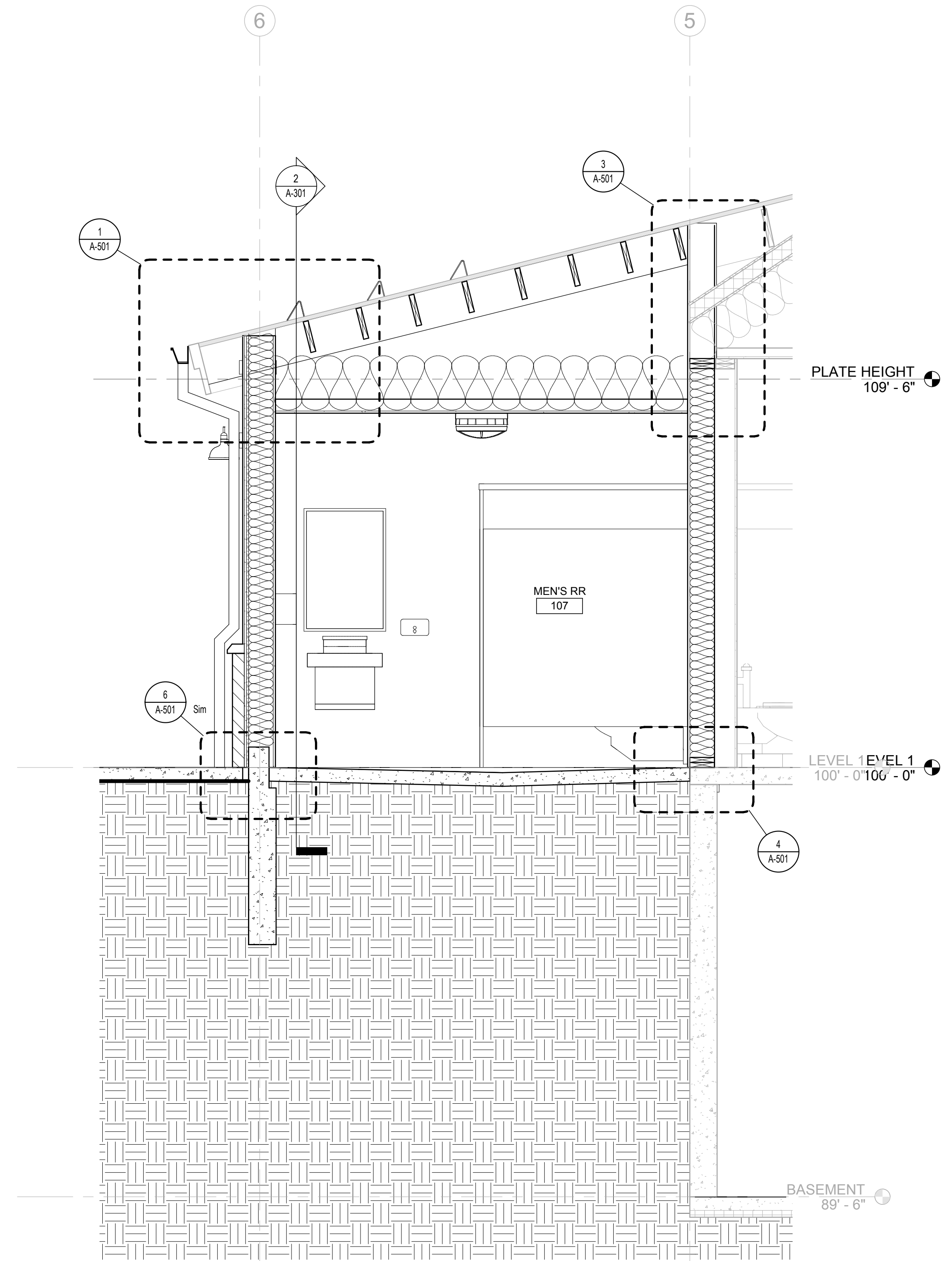
SHEET TITLE:
 BUILDING SECTIONS

SCALE: 1/2" = 1'-0"
 SHEET NUMBER

A-301



2 LONGITUDINAL SECTION
 1/2" = 1'-0"



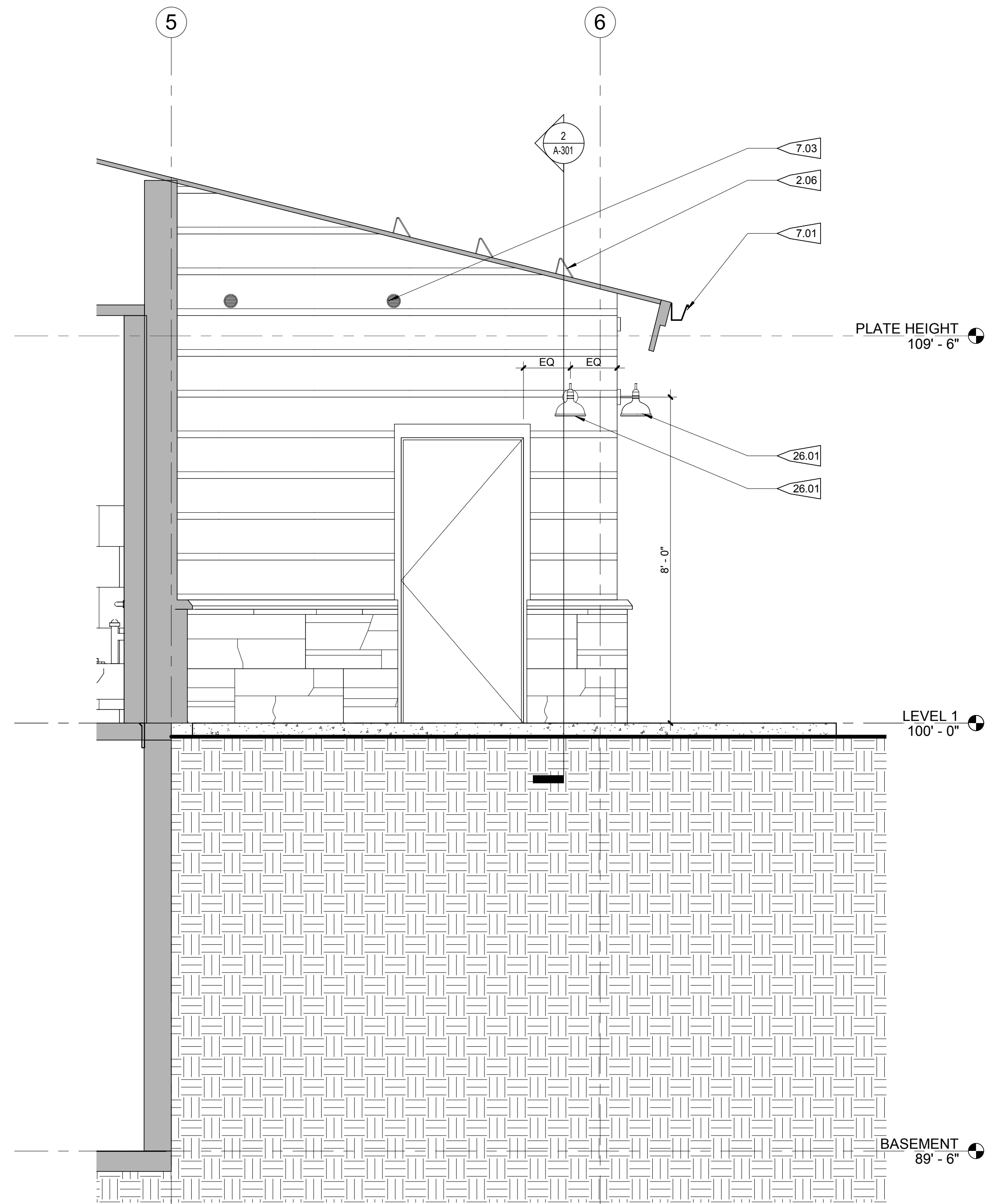
1 CROSS SECTION
 1/2" = 1'-0"



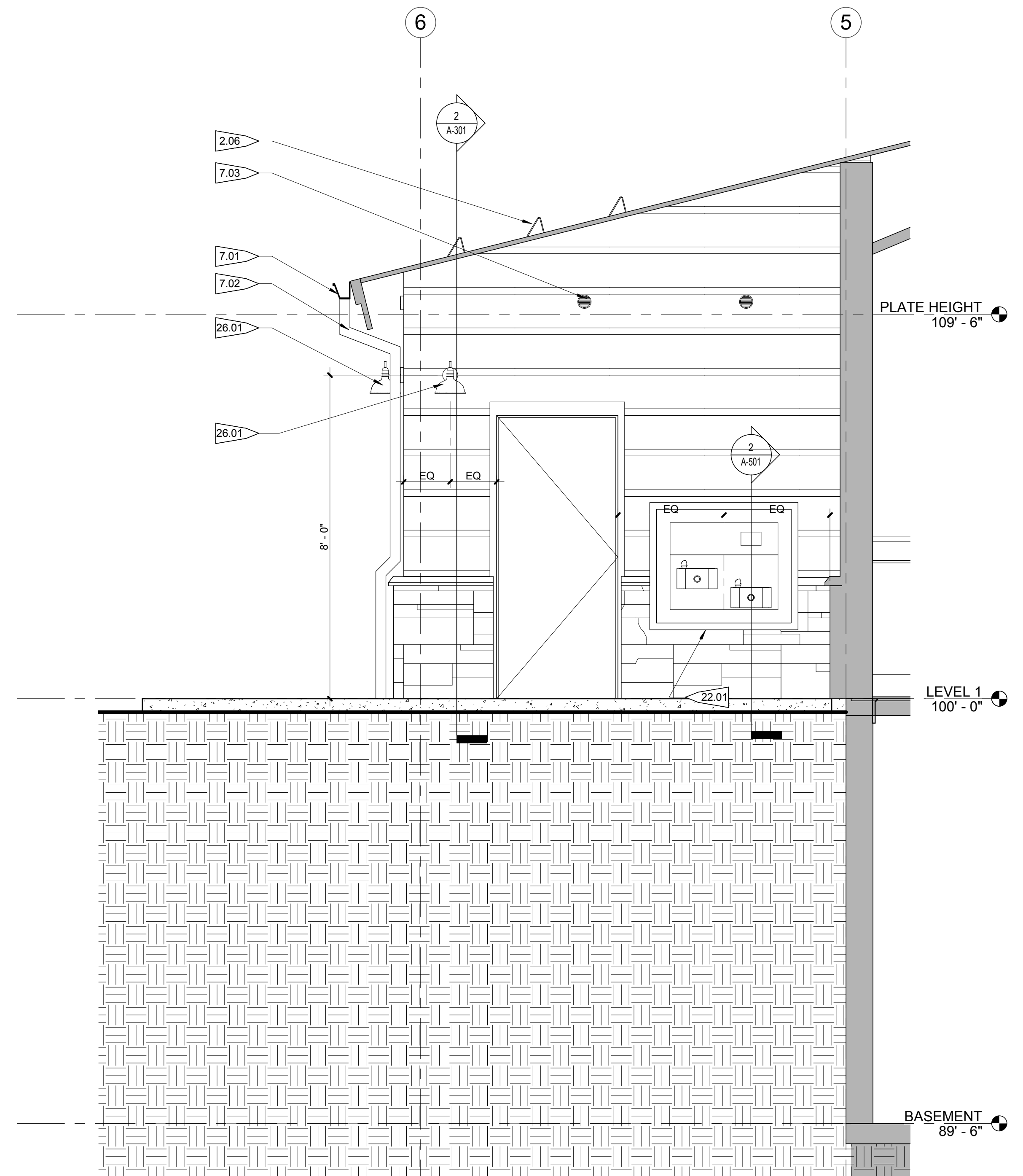
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PROJECT FLAGNOTES	
NO.	FLAGNOTE
2.06	EXISTING SNOW CLIP TO REMAIN.
7.01	NEW PREFINISHED METAL ROOF GUTTER. PROFILE AND COLOR SHALL MATCH EXISTING.
7.02	NEW 3"x4" PREFINISHED METAL DOWNSPOUT. RE: CIVIL FOR TIE IN BELOW SIDEWALK AND CONNECTION TO STORMWATER SYSTEM.
7.03	4" DIAMETER ATTIC VENT TO MATCH EXISTING ADJACENT VENTS.
22.01	DRINKING FOUNTAIN. RE: PLUMBING
26.01	WALL SCONCE, RE: ELEC



6 WEST SECTION / ELEVATION
 1/2" = 1'-0"



1 EAST SECTION / ELEVATION
 1/2" = 1'-0"

FRISCO DAY LODGE RENOVATION
 (ALTERNATE #1)
 621 RECREATION WAY
 FRISCO, CO 80443

PROJ. NO. 117119.00
 DRAWN: OZ
 CHECKED: OZ
 APPROVED: OZ
 DATE: 2018-04-27

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FRISCO DAY LODGE RENOVATION
 (ALTERNATE #1)
 ISSUED FOR:
 PERMIT SET

SHEET TITLE:
 BUILDING SECTIONS

SCALE: 1/2" = 1'-0"
 SHEET NUMBER

A-302



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4/27/18

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(ALTERNATE #1)
621 RECREATION WAY
FRISCO, CO 80443**

PROJ. NO. 117119.00
DRAWN: OZ
CHECKED: OZ
APPROVED: OZ
DATE: 2018-04-27

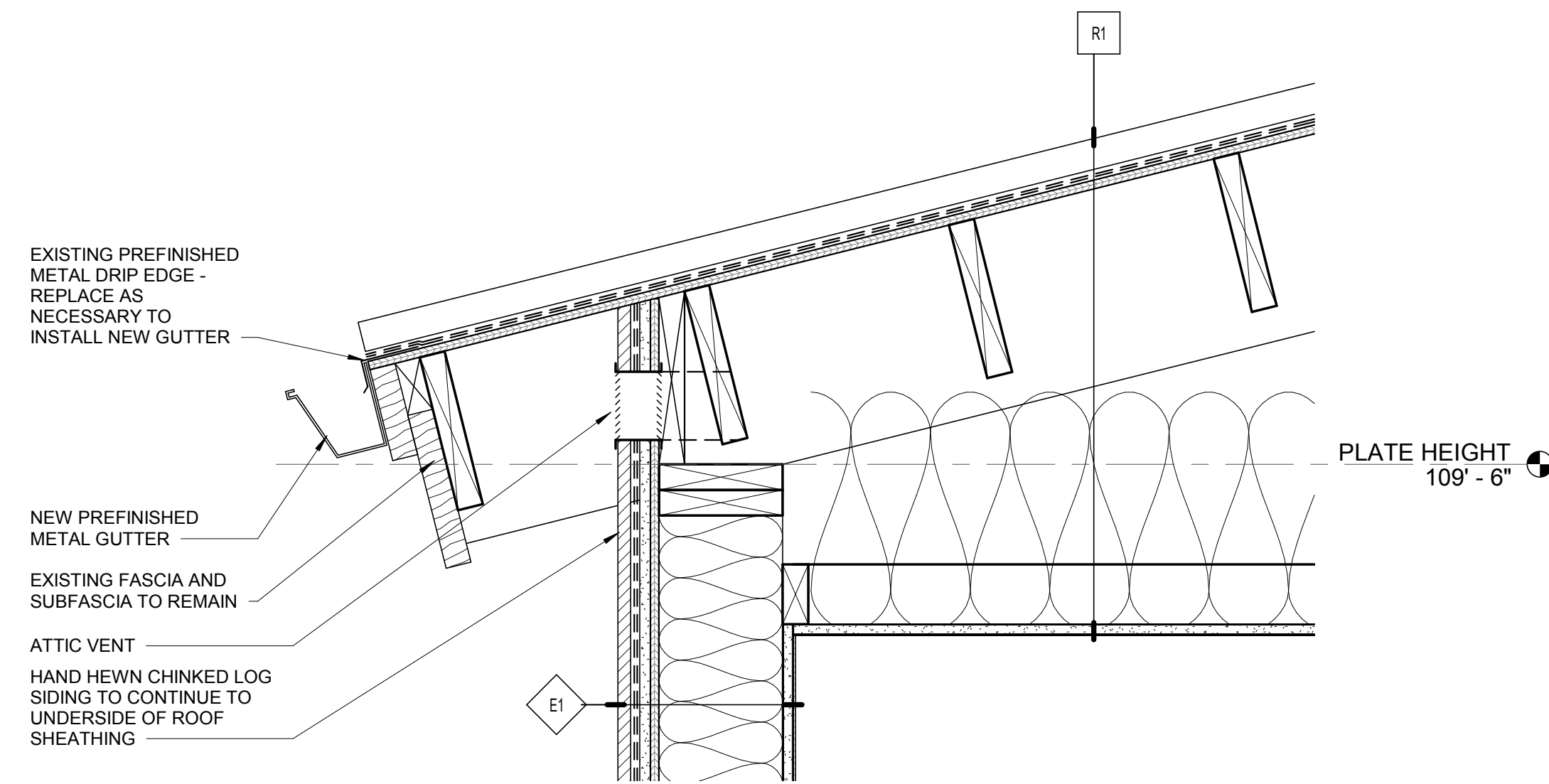
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FRISCO DAY LODGE
RENOVATION
(ALTERNATE #1)
ISSUED FOR:
PERMIT SET

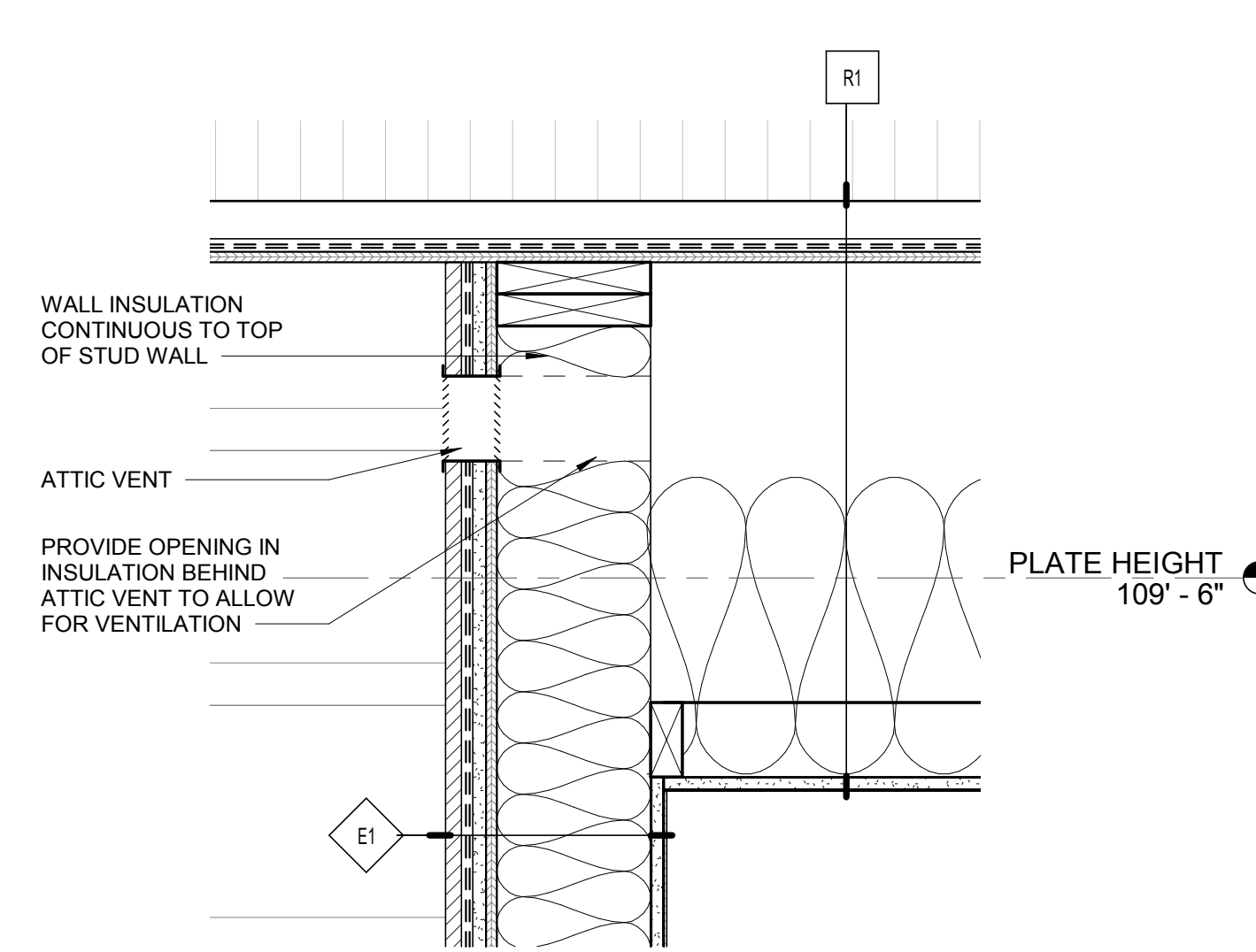
SHEET TITLE:
DETAILS

SCALE: 1 1/2" = 1'-0"
SHEET NUMBER

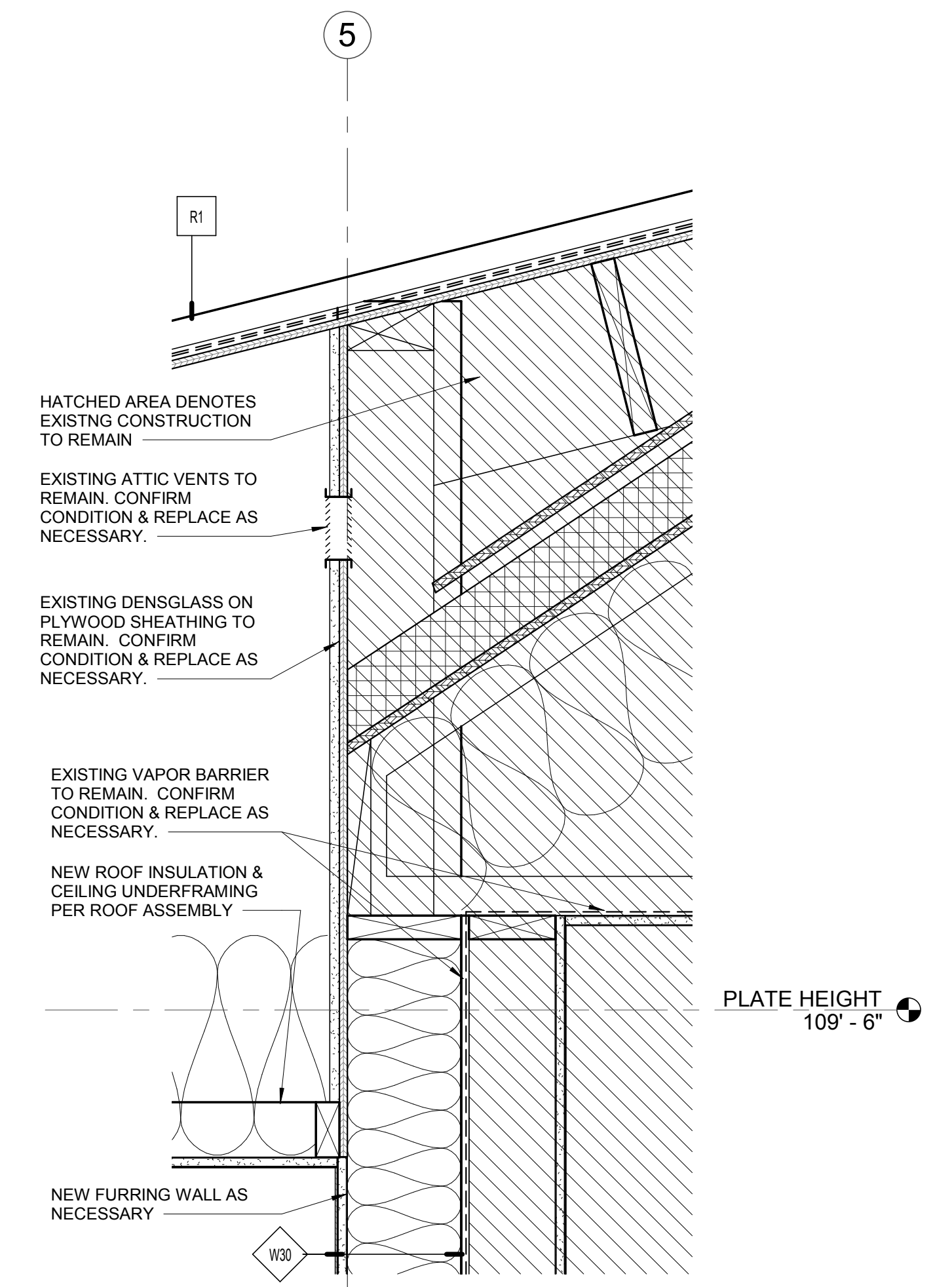
A-501



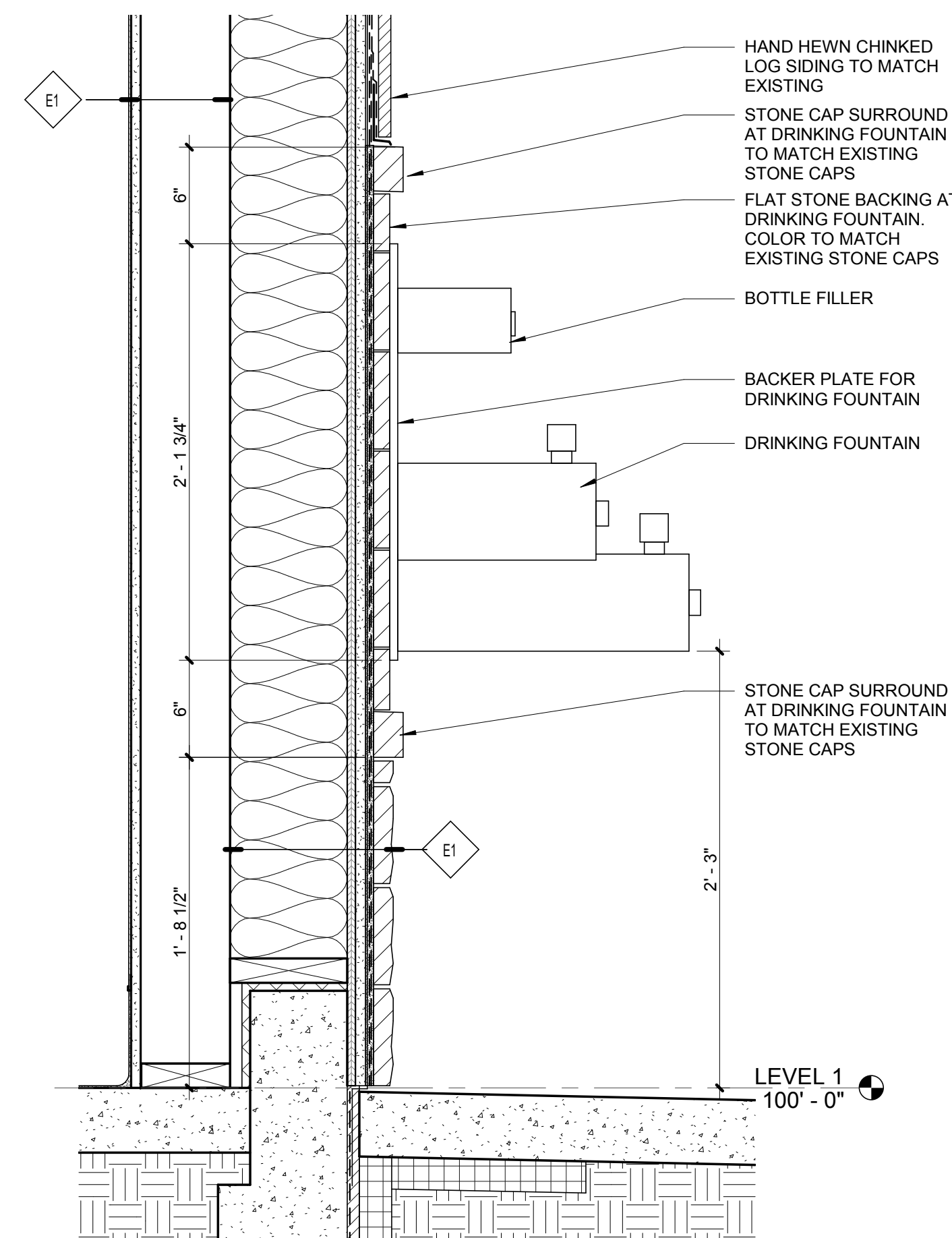
1 TYPICAL DETAIL AT ROOF EAVE
1 1/2" = 1'-0"



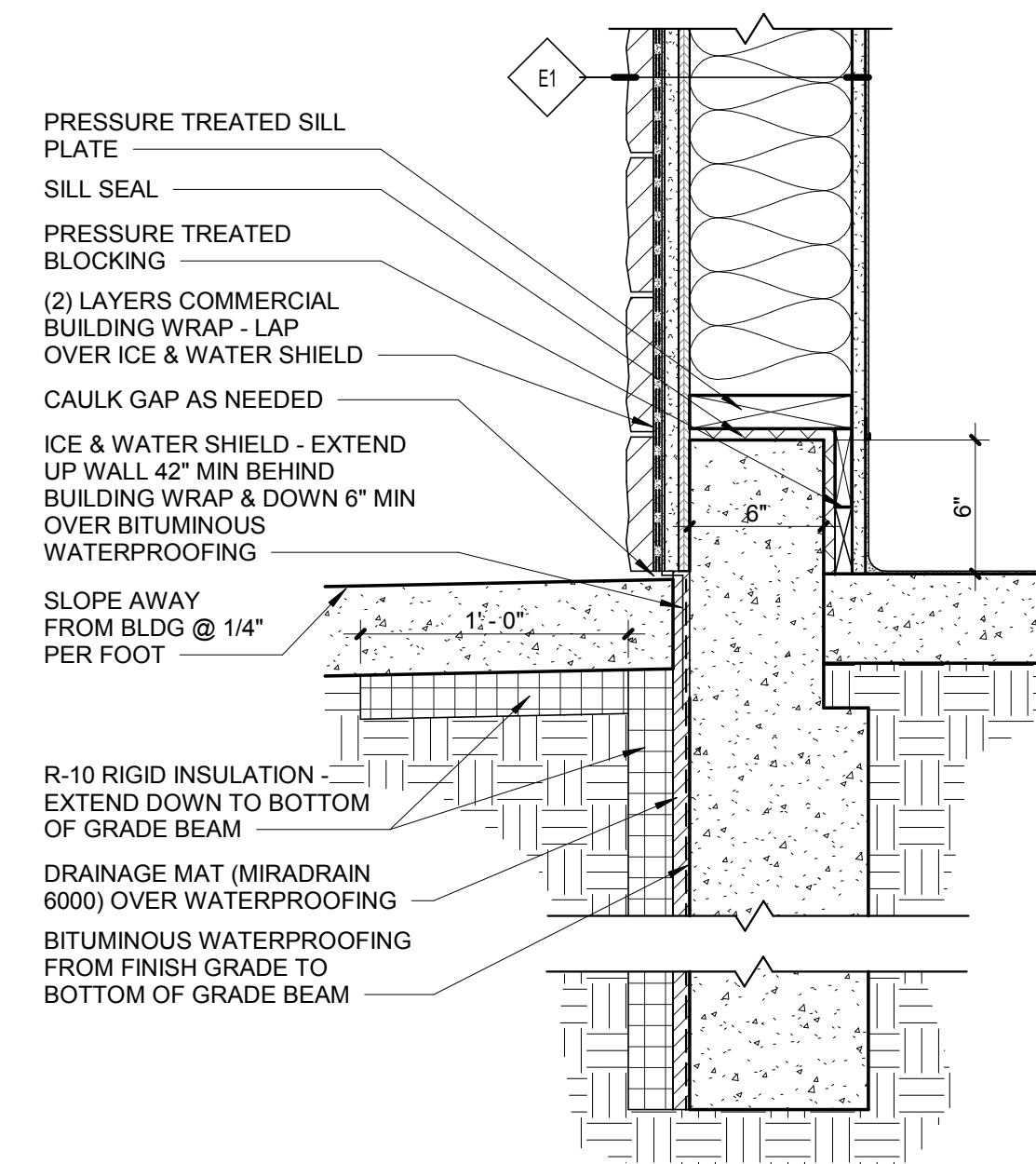
5 TYPICAL ROOF DETAIL @ PORCH
1 1/2" = 1'-0"



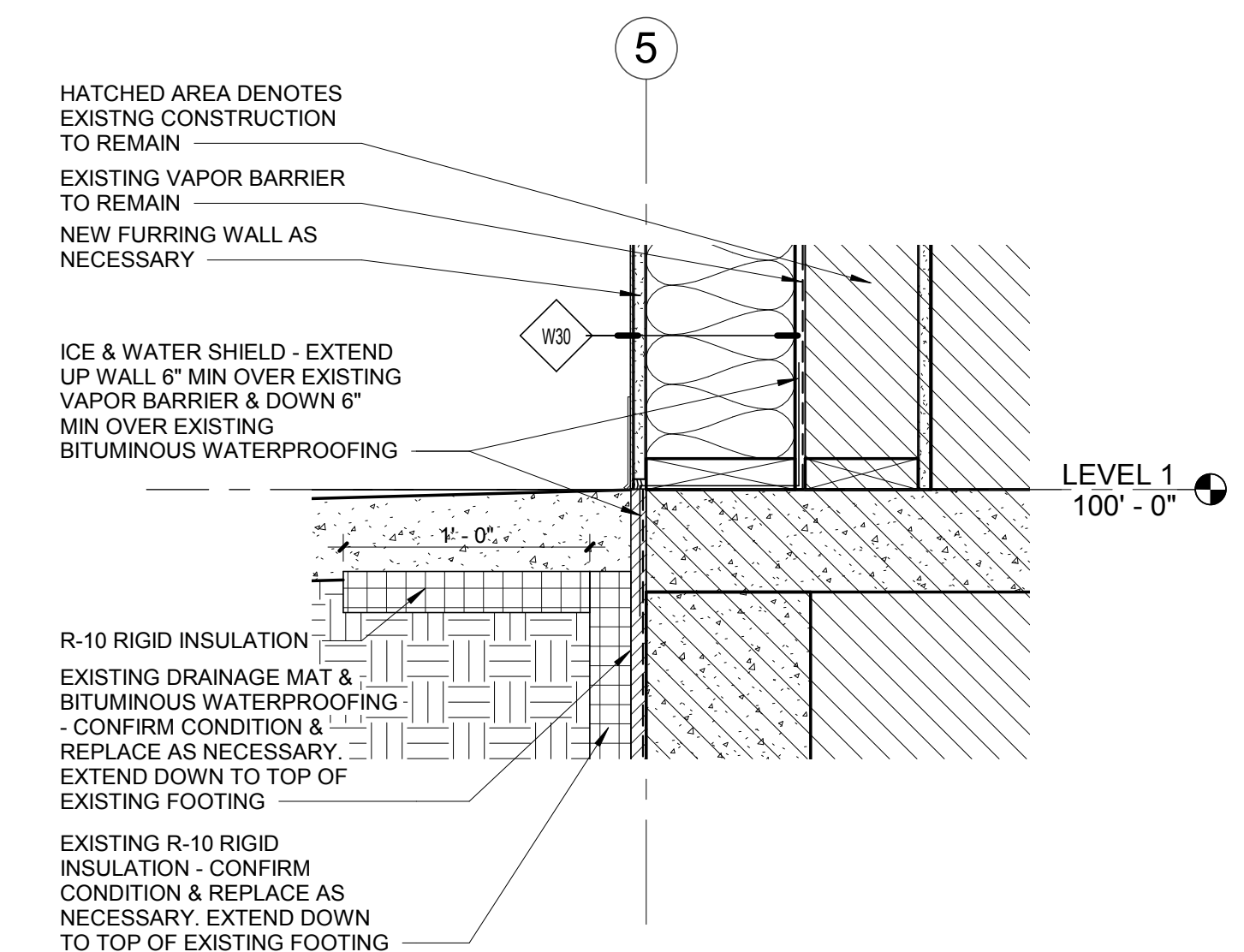
3 TYPICAL ROOF DETAIL @ NEW/EXISTING INTERSECTION
1 1/2" = 1'-0"



2 DETAIL AT DRINKING FOUNTAIN
1 1/2" = 1'-0"

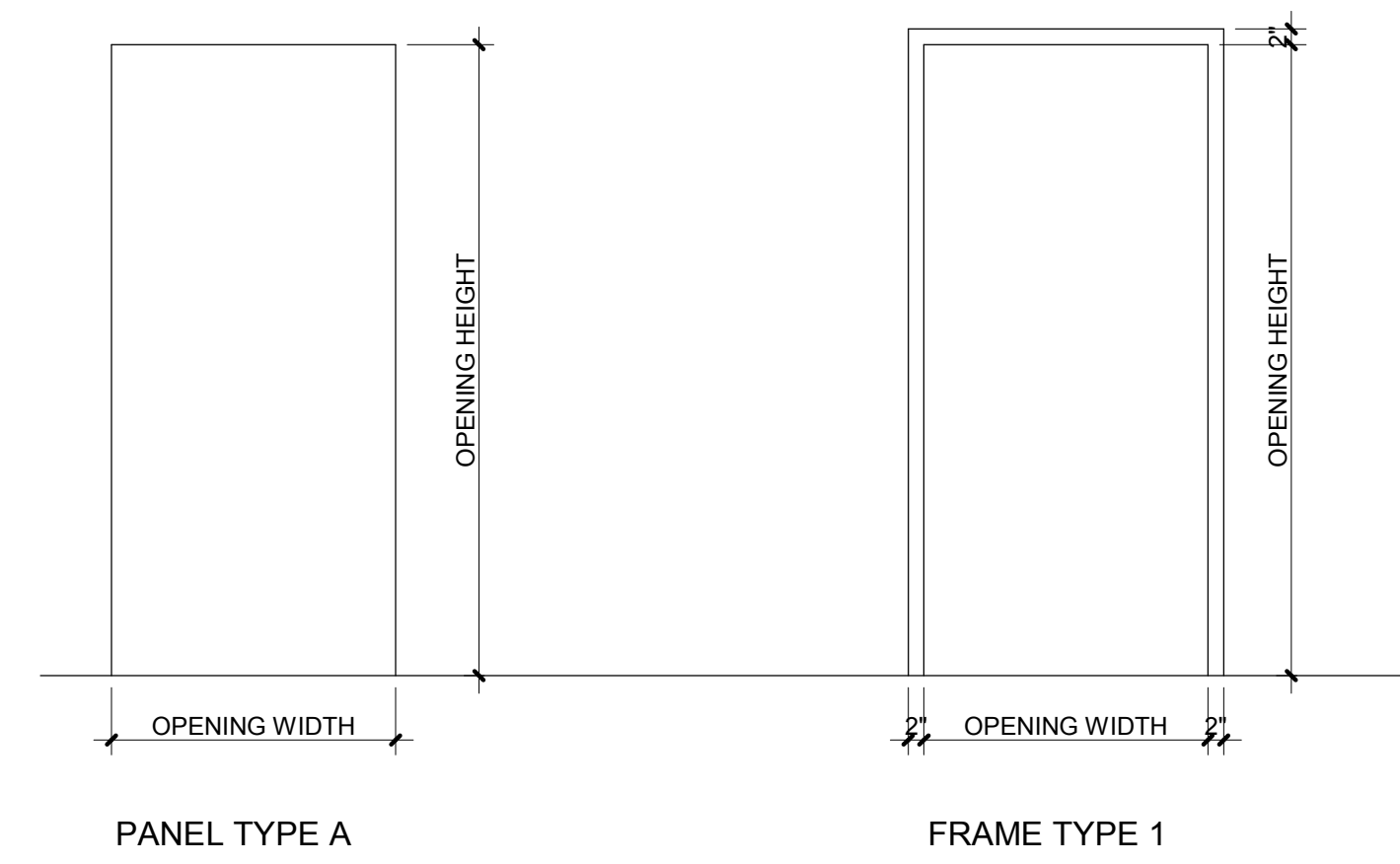


6 TYPICAL BASE OF WALL DETAIL @ PERIMETER
1 1/2" = 1'-0"

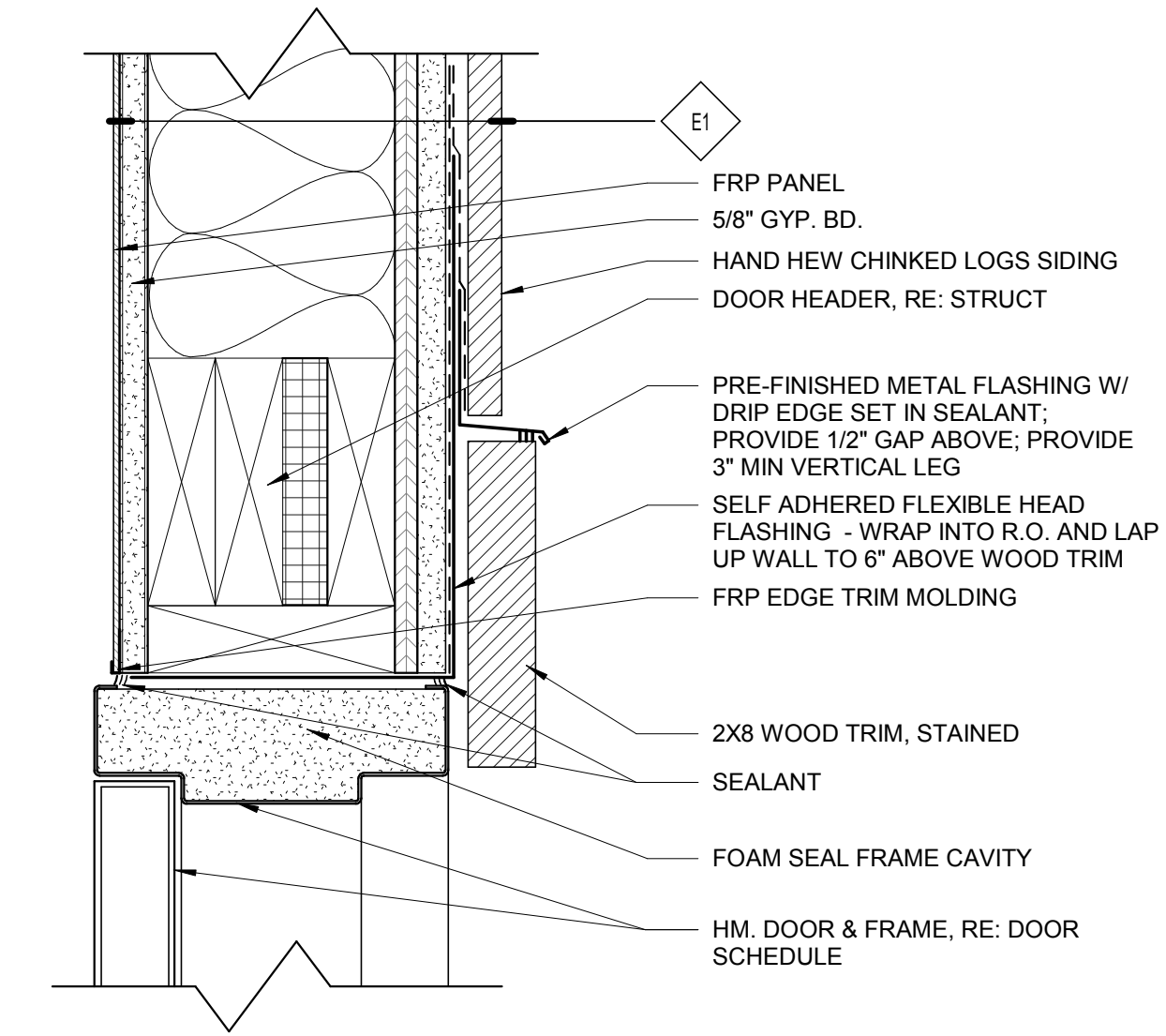


4 TYPICAL BASE OF WALL DETAIL @ NEW/EXISTING INTERSECTION
1 1/2" = 1'-0"

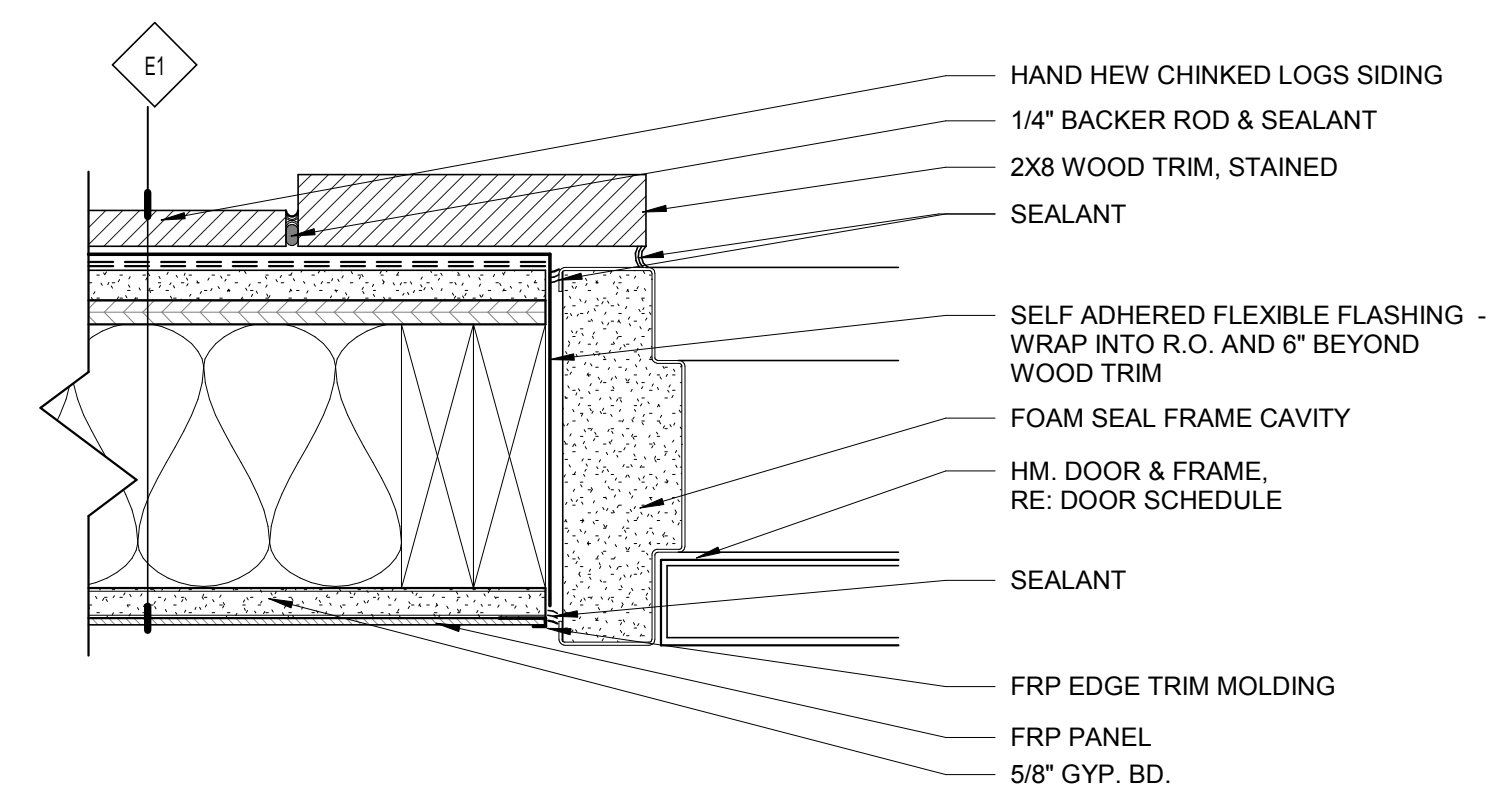
DOOR NUMBER	PANEL TYPE	DOOR						ASSEMBLY CODE RATING (MIN.)	HARDWARE SET NO.	FRAME			COMMENTS
		OPENING WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	FRAME TYPE			MATERIAL	FINISH		
106	A	3'-0"	7'-0"	1 3/4"	HM	PT 1	0	01	1	HM	PT 1	PROVIDE INSULATED DOOR W/ 0.3 MAX UFACTOR	
107	A	3'-0"	7'-0"	1 3/4"	HM	PT 1	0	01	1	HM	PT 1	PROVIDE INSULATED DOOR W/ 0.3 MAX UFACTOR	



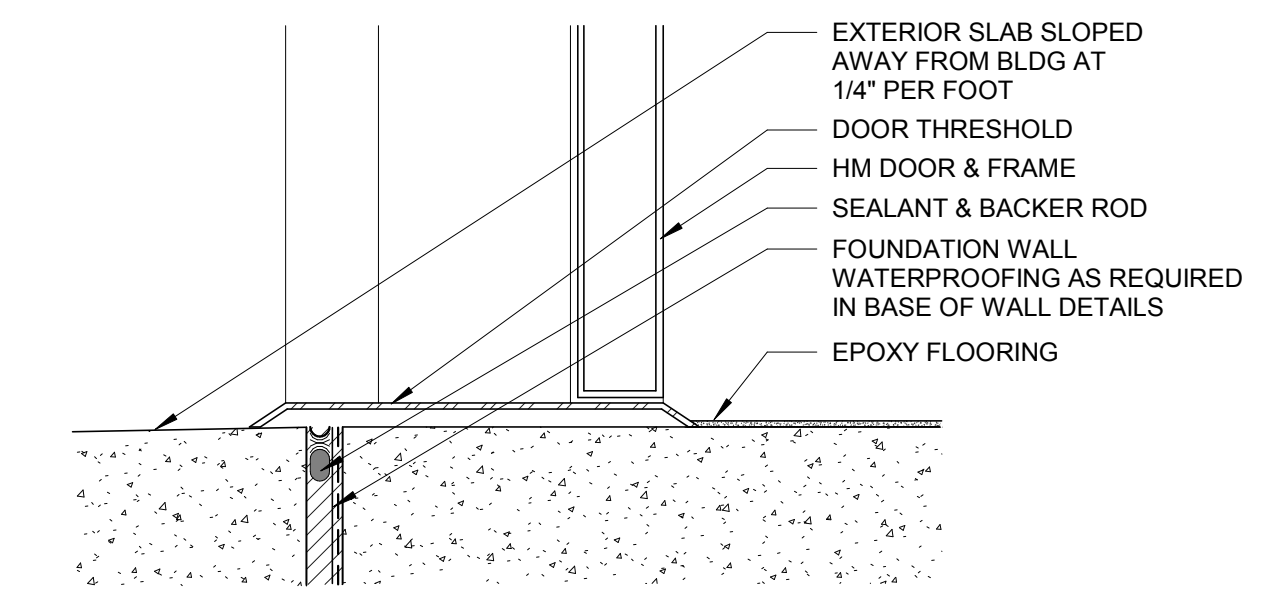
1 DOOR FRAME & PANEL TYPES
1/2" = 1'-0"



2 EXTERIOR DOOR HEAD @ SIDING
3" = 1'-0"



3 EXTERIOR DOOR JAMB @ STONE
3" = 1'-0"



4 DOOR THRESHOLD DETAIL
3" = 1'-0"



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**FRISCO DAY LODGE RENOVATION
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621 RECREATION WAY
FRISCO, CO 80443**

PROJ. NO. 117119.00
DRAWN: OZ
CHECKED: OZ
APPROVED: OZ
DATE: 2018-04-27

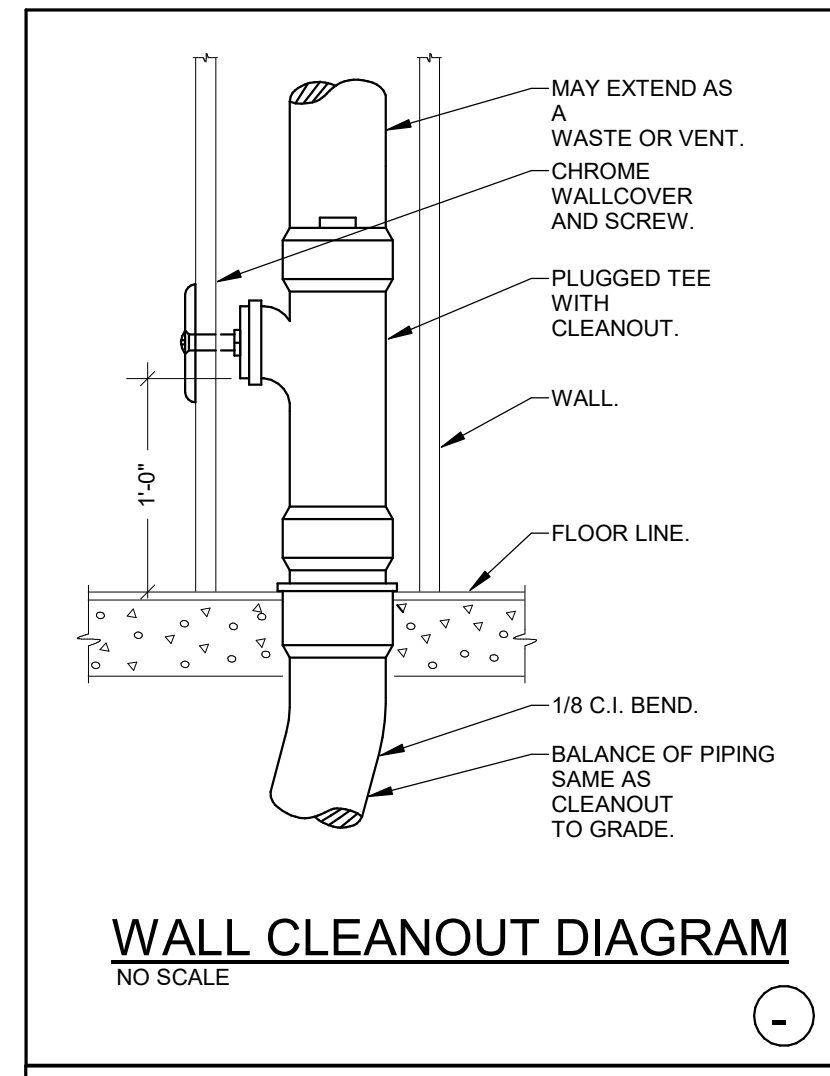
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FRISCO DAY LODGE RENOVATION (ALTERNATE #1)
ISSUED FOR: PERMIT SET

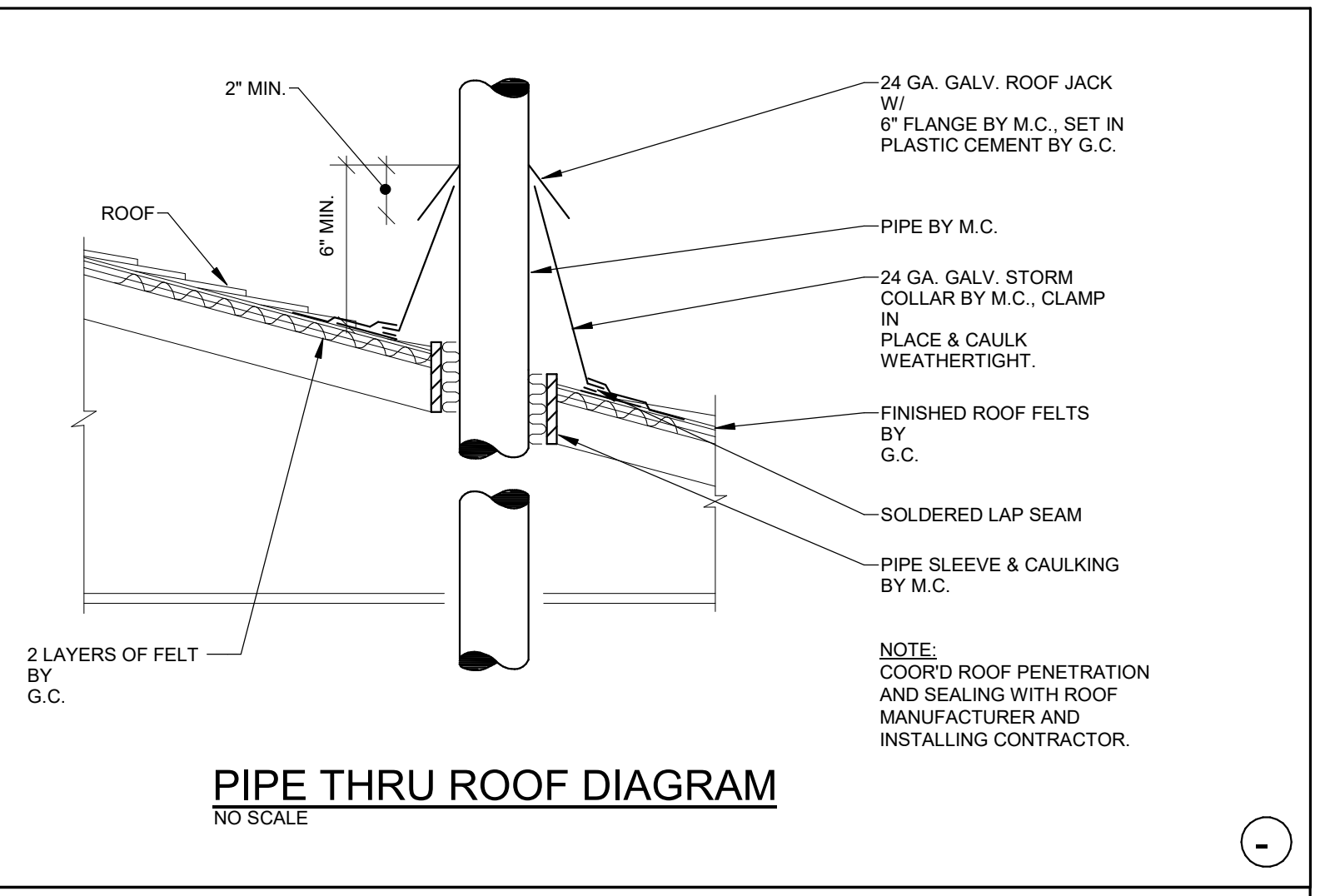
SHEET TITLE: DOOR SCHEDULE & DETAILS

SCALE: As indicated
SHEET NUMBER

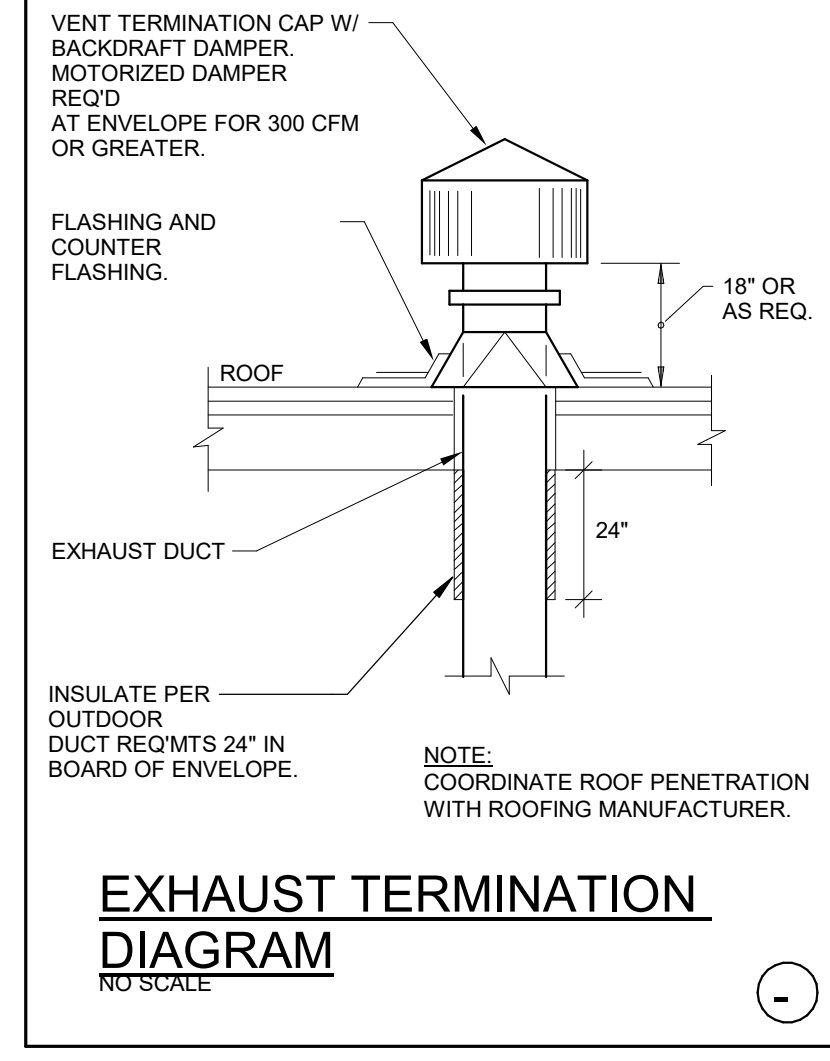
A-601



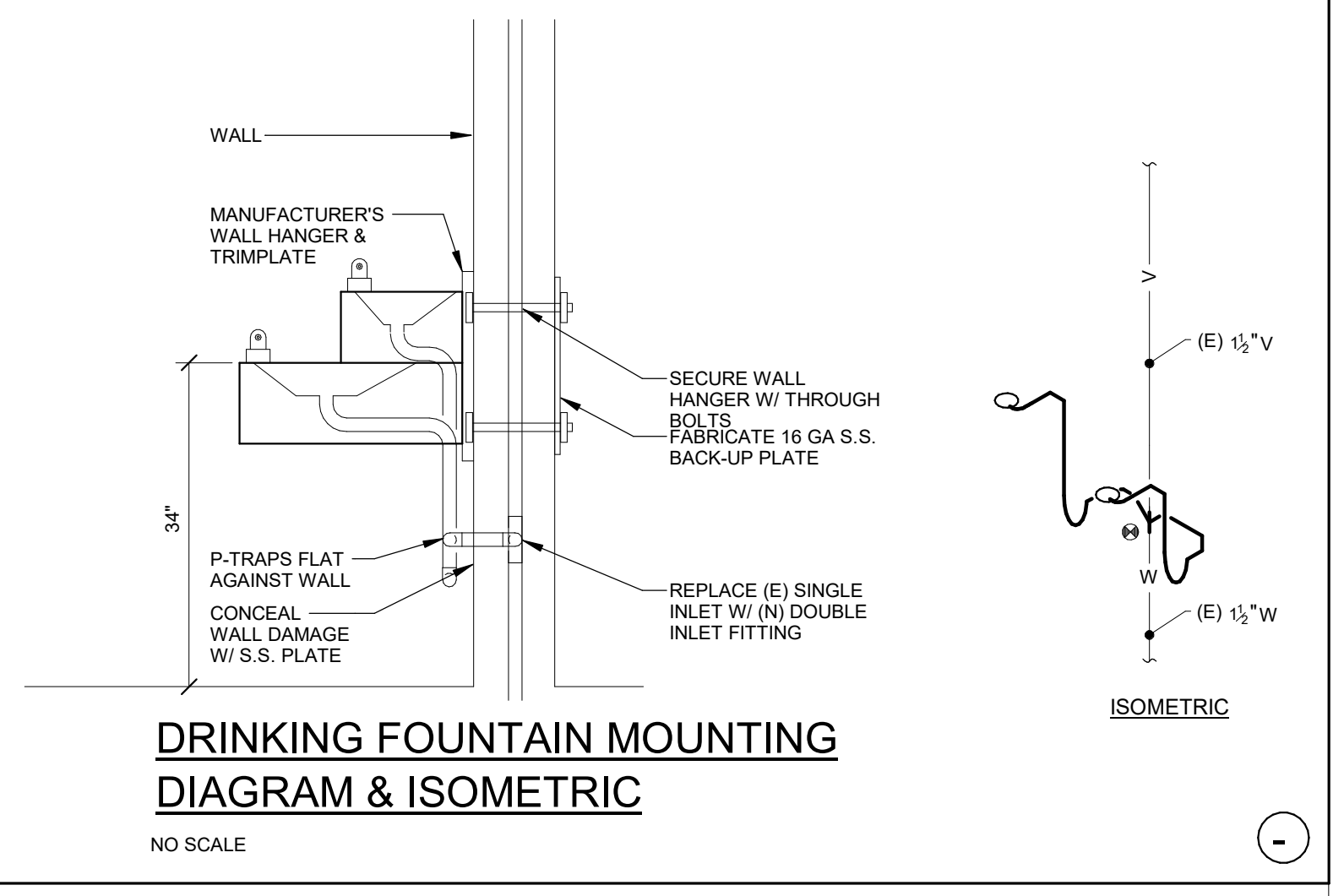
WALL CLEANOUT DIAGRAM
NO SCALE



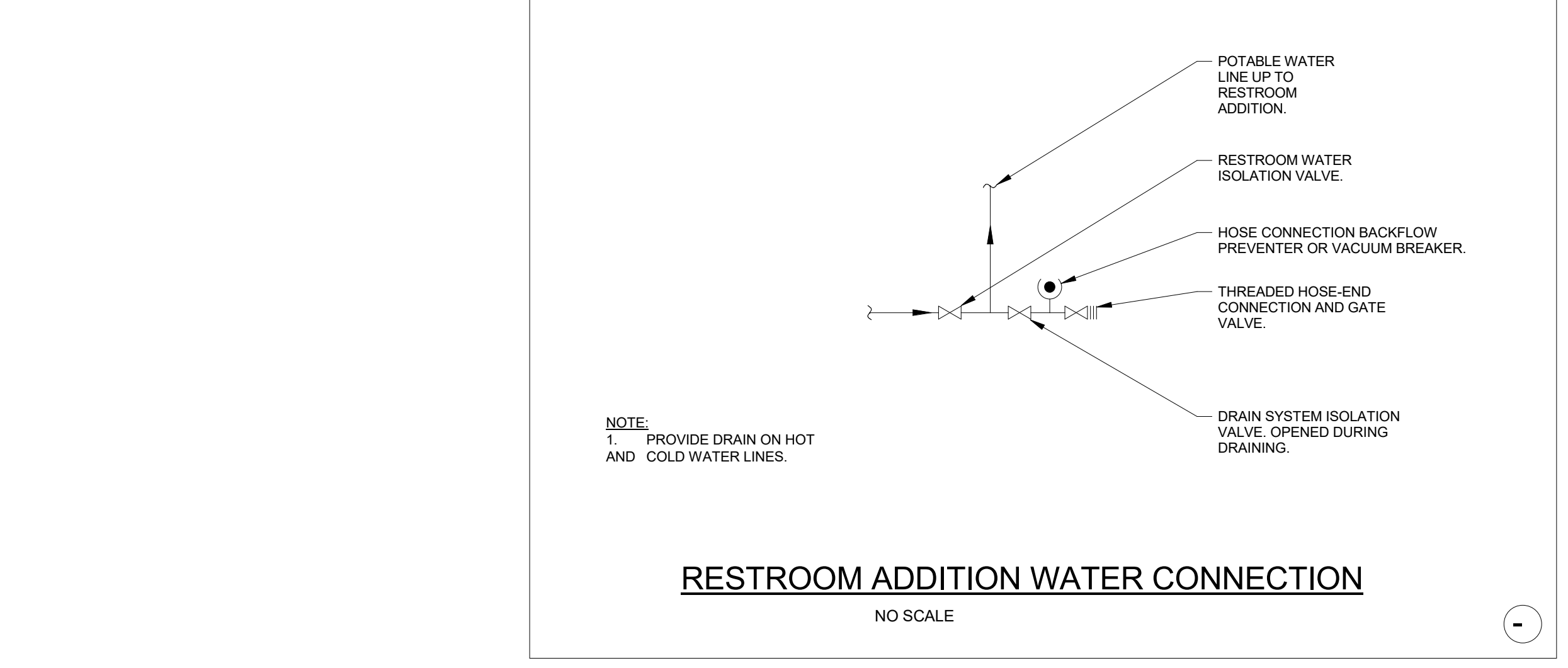
PIPE THRU ROOF DIAGRAM
NO SCALE



EXHAUST TERMINATION DIAGRAM
NO SCALE



DRINKING FOUNTAIN MOUNTING DIAGRAM & ISOMETRIC
NO SCALE



RESTROOM ADDITION WATER CONNECTION
NO SCALE

MECHANICAL SYSTEMS LEGEND

DUCTWORK LEGEND			
ROUND		DESCRIPTION	RECTANGULAR
3D	PLAN		PLAN 3D
		DUCT RISER	
		DUCT DROP	
		90° ELBOW DN (NEGATIVE PRESSURE)	
		90° ELBOW UP (POSITIVE PRESSURE)	
		90° ELBOW UP (NEGATIVE PRESSURE)	
		90° ELBOW UP (POSITIVE PRESSURE)	
		SIZE OR SHAPE TRANSITION	
		ROUND FLEXIBLE DUCT CONNECTION	
		90° RADIUS ELBOW	
		90° MITERED ELBOW W/ TURNING VANES	
		90° STRAIGHT TEE	
		90° CONICAL TEE	
		45° BRANCH	
		45° CONICAL BRANCH	
		COMBINATION FIRE AND SMOKE DAMPER	
		FIRE DAMPER	
		SMOKE DAMPER	
		MANUAL BALANCING DAMPER	
		MOTORIZED DAMPER	
		BACKDRAFT DAMPER	
		OFFSET TO CHANGE ELEVATION D = DROP R = RISE	
		DUCT SIZE TAG: FIRST NUMBER = PLAN WIDTH	

FIXTURE CONNECTION SCHEDULE

	ABBR	HW	CW	WASTE	VENT
WATER CLOSET (FLUSH VALVE)	WC	-	1"	4"	2"
WATER CLOSET (FLUSH TANK)	WCT	-	1/2"	4"	2"
URINAL (BLOWOUT)	UR	-	1"	2"	1-1/2"
URINAL (WASHDOWN)	UR	-	3/4"	2"	1-1/2"
URINAL (WATERLESS)	UR	-	-	2"	1-1/2"
LAVATORY	LAV	1/2"	1/2"	1-1/2"	1-1/2"
HAND SINK	HS	1/2"	1/2"	1-1/2"	1-1/2"
DRINKING FOUNTAIN / E.W.C.	DF	-	1/2"	1-1/2"	1-1/2"
FLOOR DRAIN	FD	-	-	2"	1-1/2"
HOSE BIB	HB	-	3/4"	-	-

AIR DEVICE DESIGNATION KEY

NOTE: SIZES SHOWN ARE MINIMUM PIPE SIZES TO A SINGLE FIXTURE. LARGER SIZES MAY BE INDICATED ON PLANS WHERE REQUIRED.

- MINIMUM DOMESTIC PIPE SIZE TO 2 OR MORE FIXTURES IS 3/4".
- RE: MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR INDIRECT WASTE SIZES.
- WASTE AND VENT SIZES SHOWN ABOVE APPLY TO INDIVIDUAL VENTING ONLY. WHERE ALLOWED, INDIVIDUAL VENT CONNECTIONS MAY BE OMITTED OR SIZES MAY VARY WHEN CIRCUIT VENTS, COMMON VENTS, WASTE STACK VENTS, WET VENTS, OR COMBINATION DRAIN AND VENT SYSTEMS ARE USED. PRIOR APPROVAL FROM THE ENGINEER IS REQUIRED TO USE THESE ALTERNATIVE VENTING METHODS.
- PROVIDE TRAP PRIMER FOR ALL FLOOR DRAINS AND FLOOR SINKS NOT LOCATED IN FOOD SERVICE AREAS.
- MINIMUM SIZE FOR WASTE AND VENT PIPING BENEATH SLAB IS 2".
- ALL FIXTURES LISTED ARE NOT NECESSARILY USED ON THIS PROJECT.
- REFER TO APPLIANCE SCHEDULES (BY OTHERS) FOR ADDITIONAL PLUMBING FIXTURE CONNECTIONS SUCH AS INST-HOTS, COFFEE MAKERS, AND GARBAGE DISPOSALS.
- PROVIDE ICE MAKER BOX ROUGH IN W/ 1/2" CW CONNECTION FOR ALL REFRIGERATOR LOCATIONS.

MECHANICAL SHEET INDEX

#	TITLE	100% DD - 04.03.2018	PERMIT SET - 04.27.2018
M-000	MECHANICAL COVER SHEET	✓	✓
M-001	MECHANICAL SCHEDULES	✓	✓
M-101	MECHANICAL PLANS	✓	✓
M-200	MECHANICAL SPECIFICATIONS	✓	✓
M-201	CODE COMPLIANCE DOCUMENTS	✓	✓

ISSUE LOG KEY:
 ✓ ISSUED AS PART OF SET
 ✗ NOT PART OF SET
 ✗✗ ISSUED FOR INFORMATION ONLY

PROJECT ALTITUDE
9100' ABOVE SEA LEVEL

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Denver, Colorado 80205
phone 303.861.5704
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**FRISCO DAY LODGE RENOVATION
(ALTERNATE #1)
621 RECREATION WAY
FRISCO, CO 80443**

PROJ. NO.
 DRAWN: NRW
 CHECKED: RSD
 APPROVED: BDS
 DATE: 2018-04-27

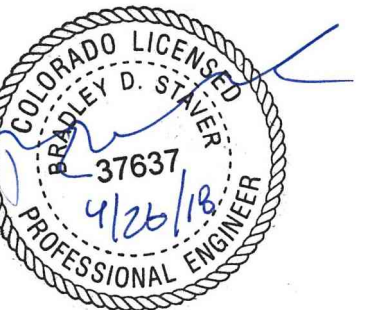
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FRISCO DAY LODGE
 RENOVATION
 (ALTERNATE #1)
 ISSUED FOR:
 PERMIT SET

SHEET TITLE:
 MECHANICAL COVER
 SHEET
 SCALE: NOT TO SCALE
 SHEET NUMBER
M-000



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FRISCO DAY LODGE
 RENOVATION
 (ALTERNATE #1)
 ISSUED FOR:
 PERMIT SET

SHEET TITLE:
 MECHANICAL
 SCHEDULES

SCALE:
 SHEET NUMBER
M-001

PLUMBING FIXTURE SCHEDULE							
MARK	TYPE	ADA	FINISH	MANUFACTURER* & MODEL #	FAUCET TRIM MFR* & MODEL #	ACCESSORIES	REMARKS
P1	LAVATORY	Y	PER ARCHITECT	WILLOUGHBY WAW-2311	-	WILLOUGHBY PPB1 PNEUMATIC PUSH BUTTON VALVE ACTUATOR	CONFIRM COLOR SELECTION WITH ARCHITECT
P2	WATER CLOSET	Y	ENVIRO-GLAZE COATING	DURA-WARE 2105	-	QUARTER TURN 3/8" SUPPLY W/ LOOSE KEY STOP, CHROME PLATED SOFT COPPER SUPPLY LINE, TANK COVER LOCKING DEVICE, 1.28 GPF WALL SUPPLY FLUSH VALVE	CONFIRM COLOR SELECTION WITH ARCHITECT
P3	URINAL	Y	ENVIRO-GLAZE COATING	DURA-WARE 2158	-	QUARTER TURN 3/8" SUPPLY W/ LOOSE KEY STOP, CHROME PLATED SOFT COPPER SUPPLY LINE, TANK COVER LOCKING DEVICE, 0.125 GPF WALL SUPPLY FLUSH VALVE	CONFIRM COLOR SELECTION WITH ARCHITECT
P4	FLOOR DRAIN	N/A	-	ZURN Z-415D-P-NH	N/A	PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL TRAP PRIMERS TYPICAL. ALL DRAIN GRATES SHALL BE FLUSH WITH FINISH FLOOR.	6" ROUND, 3" BOTTOM OUTLET NO-HUB/TRAP PRIMER
P5	DRINKING FOUNTAIN	Y	STAINLESS STEEL	HAWS 1119FR	-	HAWS 1920FR BOTTLE FILLER, 6521FR VALVE SYSTEMS FOR EACH FIXTURE	-
GENERAL NOTES:							
A:	FIRST MANUFACTURER/MODEL LISTED IS BASIS OF DESIGN MANUFACTURER/MODEL. FOLLOWING MANUFACTURERS WITH EQUAL MODELS ARE ALSO ACCEPTABLE.						
B:	ALL FIXTURES USED AS A POTABLE WATER SOURCE SHALL MEET "LEAD-FREE" REQUIREMENTS OF THE EPA REDUCTION OF LEAD IN DRINKING WATER ACT AND ASSOCIATED AMENDMENTS EFFECTIVE AS OF JANUARY 2014						

INSTANTANEOUS WATER HEATER SCHEDULE (ELECTRIC)							
MARK	TYPE	WATER TEMP. RISE (°F)	ELECTRICAL		MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS
			KW	VOLT/ PHASE			
WH-2	POINT OF USE	55	8.3	208/1	EEMAX SPEX8208T ML	A	-
MANUFACTURERS:							
*	HUBBELL, STIEBEL ELTRON						
GENERAL NOTES:							
A:	PROVIDE WITH LOCKABLE CABINET FOR RECESSED WALL MOUNTING.						

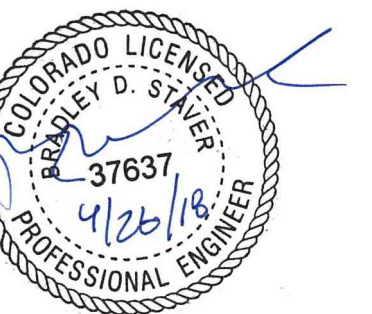
GRILLE, REGISTER, DIFFUSER & LOUVER SCHEDULE						
MARK	USE	PATTERN	FINISH	MANUFACTURER* & MODEL#	ACCESSORIES	REMARKS
A	TRANSFER	SINGLE DEFLECTION	PER ARCHITECT	TITUS 271FL	A	B
MANUFACTURERS:						
*	KREUGER, METALAIRE, PRICE					
GENERAL NOTES:						
A:	PROVIDE MANUAL BALANCING DAMPER IN RUN-OUT DUCTWORK FOR ALL GRILLES REGISTERS AND DIFFUSERS.					
B:	NECK SIZE SHALL BE EQUAL TO RUN-OUT SIZE INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.					

UNIT AND CABINET HEATER SCHEDULE (ELECTRIC)						
MARK	TYPE	ELECTRICAL		MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS
		KW	VOLT/ PH			
UH-2	WALL MOUNTED	1.0	120/1	MARKEL E3322TD-RP	A, B	-
UH-3	WALL MOUNTED	1.8	120/1	MARKEL E3058T2DWB	A, B	-
MANUFACTURERS:						
*	TRANE, BERKO					
GENERAL NOTES:						
A:	PROVIDE CABINET HEATER WITH UNIT MOUNTED THERMOSTAT AND BUILT-IN CONTROLS. CONNECT ALARM STATUS TO BCS. REFER TO FLOOR PLANS FOR EXACT QUANTITY					
B:	PROVIDE FACTORY MOUNTED DISCONNECT					

EXHAUST FAN SCHEDULE									
MARK	TYPE	FAN				MOTOR	MANUFACTURER* & MODEL #	ACCESSORIES	REMARKS
		CFM	ESP		VOLT/PH				
			@ S.L.	@ ALT					
EF-2	CEILING CABINET	50	0.25 in-wg	0.25 in-wg	120/1	GREENHECK SP-B80	C	A,B	
SF-1	INLINE SUPPLY	90	0.40 in-wg	0.40 in-wg	120/1	GREENHECK SQ-70-VG	-	A	
MANUFACTURERS:									
*	COOK, TWIN CITY								
GENERAL NOTES:									
A:	CONNECT FAN TO EXISTING BAC FOR SCHEDULING AND ALARM STATUS. FAN OPERATION TO BE INTEGRATED WITH LIGHTING OCCUPANCY SENSOR.								
B:	MULTIPLE ITEMS OF THIS DESIGNATION. REFER TO FLOORPLANS FOR EXACT QUANTITY.								
C:	PROVIDE WITH GRAVITY BACKDRAFT DAMPER. PROVIDE ALL TRIM REQUIRED TO MOUNT FULLY RECESSED IN CEILING.								



3003 Larimer Street
Denver, Colorado 80205
phone 303.861.5704
www.ozarch.com



FRISCO DAY LODGE RENOVATION
(ALTERNATE #1)
621 RECREATION WAY
FRISCO, CO 80443

PROJ. NO.
DRAWN: NRW
CHECKED: RSD
APPROVED: BDS
DATE: 2018-04-27

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FRISCO DAY LODGE RENOVATION
(ALTERNATE #1)
ISSUED FOR:
PERMIT SET

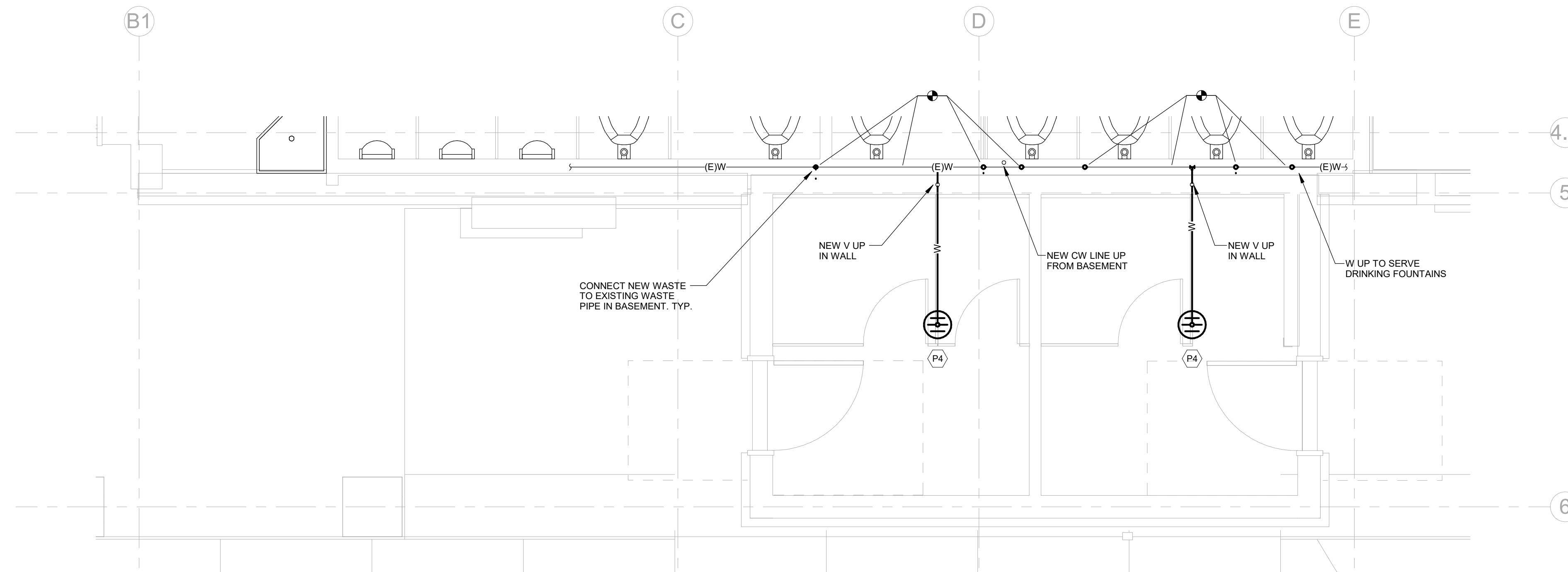
SHEET TITLE:
MECHANICAL PLANS

SCALE: As indicated
SHEET NUMBER

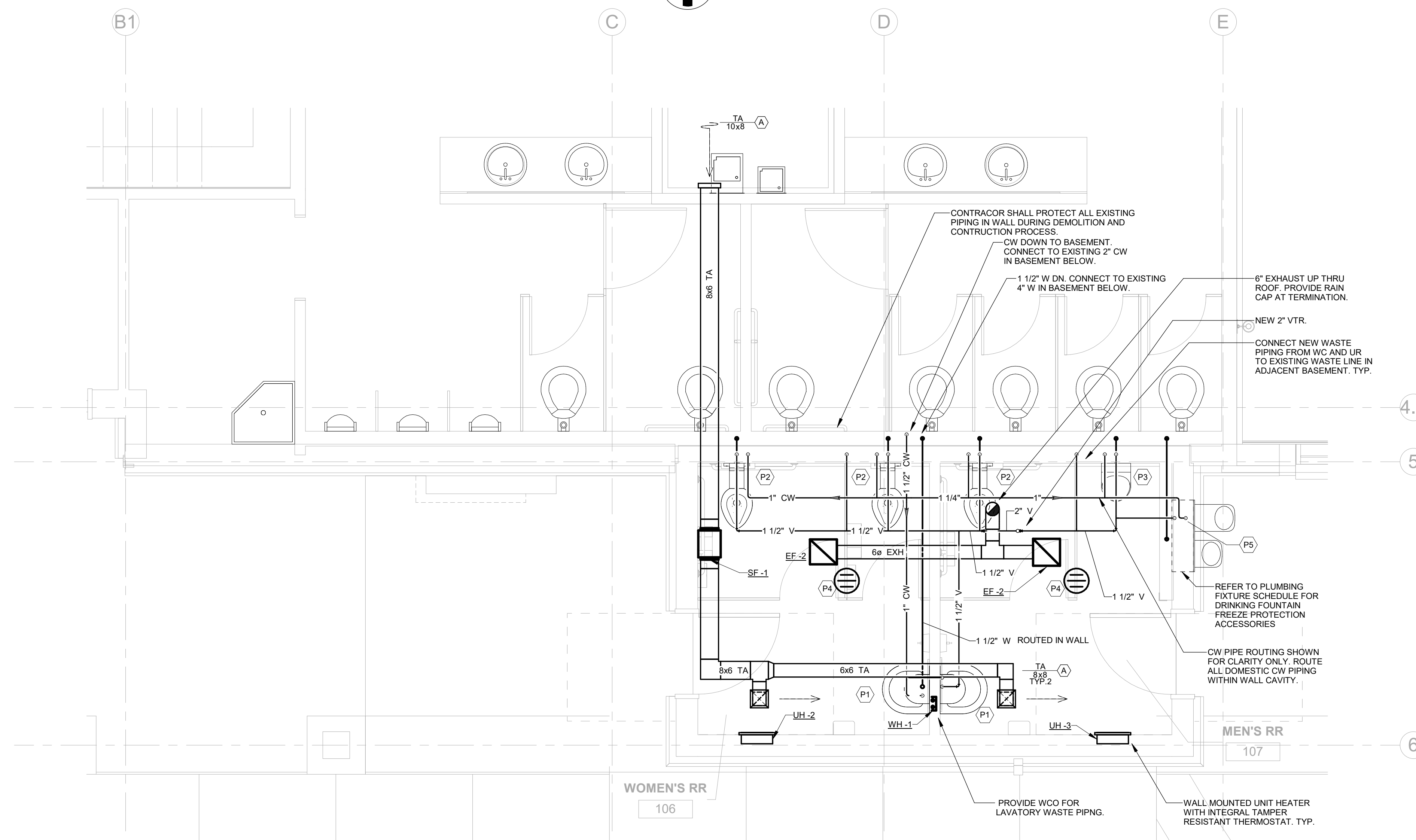
M-101

HVAC NOTES:

- RE: 1/M001 FOR MECHANICAL DIAGRAM.
- CEILING COORDINATION OF ALL MEP SYSTEMS (LIGHTING, DUCTWORK, DIFFUSERS, ELECTRICAL, FIRE PROTECTION, ETC.) MUST BE COMPLETED BY THE CONTRACTOR PRIOR TO THE START OF ANY INSTALLATIONS.
- PROVIDE FLEXIBLE DUCT AND PIPE CONNECTIONS TO ALL MOTORIZED EQUIPMENT.
- EXTEND EXISTING DRY PIPE SPRINKLER SYSTEM TO COMPLY WITH NFPA 13.
- PROTECT PIPING ROUTED ALONG COLUMNS, WALLS, ETC. FROM DAMAGE AS NECESSARY WITH CAGES. COORDINATE WITH ARCHITECT.
- ALL DUCTWORK SHALL BE ROUTED AS HIGH AS POSSIBLE IN THE CEILING SPACE. UTILIZE JOIST SPACE WHEN POSSIBLE. ESPECIALLY WHERE CROSSING OTHER DUCTS, PIPES, AND ELECTRICAL.
- ACCESS PANELS SHALL BE 24x24, U.N.O. LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE COORDINATED WITH THE ARCHITECTS DRAWINGS AND WITH THE LOCATIONS OF THE EQUIPMENT OR APPARATUS THAT THEY SERVE.



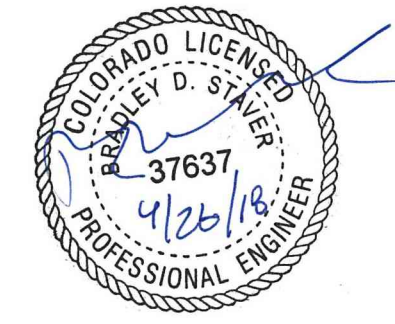
1 UNDERGROUND MECHANICAL PLAN
SCALE: 3/8" = 1'-0"



2 LEVEL 1 MECHANICAL PLAN
SCALE: 3/8" = 1'-0"



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FRISCO DAY LODGE RENOVATION
(ALTERNATE #1)
ISSUED FOR:
PERMIT SET

SHEET TITLE:
CODE COMPLIANCE DOCUMENTS

SCALE: NOT TO SCALE
SHEET NUMBER
M-201

Section # & Req. ID	Footings / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.3.9 (FD9)	Freeze protection and snow/ice melting system sensors for future connection to controls.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
4.2.2.6.4 (I2.1.6.7)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment to the standard are claimed. Load calculations per applicable engineering standards and handbooks.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
4.2.2.6.4 (I2.1.6.7)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment to the standard are claimed. Load calculations per applicable engineering standards and handbooks.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
4.2.2.9.4 (I2.1.6.7)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.7.2.4 (I2.1.6.7)	Detailed instructions for HVAC systems comprising included on the plans or specifications for projects >=50,000 sq. ft.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Frisco Restroom Addition Report date: 04/26/18
Data filename: S:\BG\Projects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calsr\Frisco Comcheck.cck Page 4 of 14

COMcheck Software Version 4.0.8.1

Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
Project Title: Frisco Restroom Addition
Project Type: Addition
Location: Frisco, Colorado
Climate Zone: 7
Project Type: Addition

Construction Site: 921 Recreation Way, Frisco, CO 80443
Owner/Agent: Town of Frisco Public Works Dept., 3003 Larimer Street, Frisco, CO 80225
Designer/Contractor: OZ Architecture, 3003 Larimer Street, Frisco, CO 80225

Mechanical System List

Quantity: 1
System Type & Description: HVAC System 1 (Single Zone): Heating: 1 each: Other, Electric, Capacity = 2 Mbtuh
No minimum efficiency requirement applies
Fan System: FAN SYSTEM 1 NEW RESIDUALS - Compliance (Motor nameplate HP method) - Passes

Fans:
FAN 1 Supply, Constant Volume, 90 CFM, 0.1 motor nameplate hp
FAN 2 Exhaust, Constant Volume, 50 CFM, 0.1 motor nameplate hp
FAN 3 Exhaust, Constant Volume, 50 CFM, 0.1 motor nameplate hp

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Exterior Lighting PASSES: Design 94% better than code

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Exterior Lighting PASSES: Design 94% better than code

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Signature: [Signature] Date: 4/26/18

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Frisco Restroom Addition Report date: 04/26/18
Data filename: S:\BG\Projects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calsr\Frisco Comcheck.cck Page 3 of 14

COMcheck Software Version 4.0.8.1

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
Project Title: Frisco Restroom Addition
Project Type: Addition
Location: Frisco, Colorado
Climate Zone: 7
Project Type: Addition

Construction Site: 621 Recreation Way, Frisco, CO 80443
Owner/Agent: Town of Frisco Public Works Dept., 3003 Larimer Street, Frisco, CO 80443
Designer/Contractor: OZ Architecture, 3003 Larimer Street, Frisco, CO 80225

Allowed Exterior Lighting Power

Area Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Restroom Entry (Entry canopy)	2	925	Yes	0
Total Tradable Watts (d) =				0
Net equipment and document where exceptions are claimed. Feeder calculations per applicable engineering standards and handbooks.				500
(a) Wattage tradeoffs are only allowed between tradable areas/surfaces. (b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.				500

Proposed Exterior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps / Fixtures	# of Fixtures	Watt (C X D)
Restroom Entry (Entry canopy 2 R2): Tradable Wattage LED 1: W1 Wall Score: Other	2	2	925
Total Proposed Watts =			925

Exterior Lighting PASSES: Design 94% better than code

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Signature: [Signature] Date: 4/27/18

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Frisco Restroom Addition Report date: 04/26/18
Data filename: S:\BG\Projects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calsr\Frisco Comcheck.cck Page 2 of 14

COMcheck Software Version 4.0.8.1

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2010) Standard
Project Title: Frisco Restroom Addition
Project Type: Addition
Location: Frisco, Colorado
Climate Zone: 7
Project Type: Addition

Construction Site: 921 Recreation Way, Frisco, CO 80443
Owner/Agent: Town of Frisco Public Works Dept., 3003 Larimer Street, Frisco, CO 80443
Designer/Contractor: OZ Architecture, 3003 Larimer Street, Frisco, CO 80225

Allowed Interior Lighting Power

Area Category	B Floor Area (ft²)	C Allowed Watts / ft²	D Allowed Watts (B X C)
Restrooms (Common Space Types/Restrooms)	178	0.98	174
Total Allowed Watts =			174

Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	Lamps / Fixtures	# of Fixtures	Watt (C X D)
Restrooms (Common Space Types/Restrooms) Compact Fluorescent 1 S1: Surface Fixture: Type 4-pin 26W: Electronic	2	2	98
Total Proposed Watts =			98

Interior Lighting PASSES: Design 40% better than code

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 4.0.8.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Signature: [Signature] Date: 4/27/18

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Frisco Restroom Addition Report date: 04/26/18
Data filename: S:\BG\Projects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calsr\Frisco Comcheck.cck Page 1 of 14

Section # & Req. ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.6 (ME1)	HVAC equipment efficiency verified. Non-NACCA HVAC equipment labeled as meeting 90.1.	Efficiency: _____	Efficiency: _____	Complies Does Not Not Observable Not Applicable	See the Mechanical Systems list for values.
6.4.3.1 (ME2)	Stair and elevator shaft vents have hooded dampers that automatically close.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.4.3.2 (ME3)	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			Complies Does Not Not Observable Not Applicable	Exception: Gravity dampers accepted in systems with outside or exhaust air flow rates less than 300 cfm where dampers are interconnected with fan.
6.4.3.3 (ME3)	Enclosed parking garage ventilation has automatic demand control and capacity to stage or modulate fans to 50% or less of design capacity.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.4.3.4 (ME3)	Ventilation fans >= 75 hp have automatic controls to shut off fan when not required.			Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.4.3.9 (ME3)	Demand control ventilation provided for spaces >= 500 ft² and provided 100% outdoor air conditioning capacity >= 110,000 ft³ has variable airflow controls.			Complies Does Not Not Observable Not Applicable	Exception: Spaces where the supply airflow rate minus any makeup or recirculating air is less than 1200 cfm.
6.4.3.10 (ME4)	Single zone HVAC systems with fan motors >= 3 hp have variable airflow controls. Air conditioning capacity >= 110,000 ft³ has variable airflow controls.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.4.4.1 (ME7)	Insulation exposed to weather protected from damage. Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.4.4.2 (ME7)	HVAC ducts and plenums insulated. Where ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.	R: _____	R: _____	Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.4.4.3 (ME9)	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation Inspection.	in.	in.	Complies Does Not Not Observable Not Applicable	Exception: null.
6.4.4.4 (ME1)	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Frisco Restroom Addition Report date: 04/26/18
Data filename: S:\BG\Projects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calsr\Frisco Comcheck.cck Page 7 of 14

Section # & Req. ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.4.1 (ME1)	Ducts and plenums sealed based on static pressure and location.			Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.4.4.2 (ME11)	Ductwork opening >= 3/16" water column requires air leakage testing.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.5.2 (ME19)	Dehumidification controls installed provided to prevent reheating, recycling, mixing of hot and cold air streams or concurrent heating and cooling of the same airstream.			Complies Does Not Not Observable Not Applicable	Exception: Cooling capacity >= 40 Mbtuh.
6.5.3 (ME42)	Multiple zone VAV systems have static pressure setpoint reset controls.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems list for notes.
6.5.4 (ME23)	HVAC pumping systems >= 10 hp designed for variable fluid flow.			Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.5.6 (ME56)	Exhaust air energy recovery on systems meeting Table 6.5.6.1.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.5.7.1 (ME32)	Kitchen hoods >= 5,000 cfm have make-up air >= 50% of exhaust air volume.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.5.7.1.2 (ME40)	Conditioned supply air to space with a kitchen hood shall not exceed the greater of 1) supply flow required to meet space heating or cooling, or 2) hood exhaust flow minus the available air transfer from available spaces.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.5.7.1.3 (ME49)	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.5.7.2 (ME33)	Fume hoods exhaust systems >= 13,000 cfm have VAV hood exhaust and supply systems, direct make-up air or heat recovery.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.5.8 (ME36)	Unenclosed spaces that are heated use only radiant heat.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Frisco Restroom Addition Report date: 04/26/18
Data filename: S:\BG\Projects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calsr\Frisco Comcheck.cck Page 8 of 14

Section # & Req. ID	Rough-In Electrical Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.8.2 (EL10)	At least 50% of all 120 volt 15- and 20-amp receptacles are controlled by an automatic control device.			Complies Does Not Not Observable Not Applicable	Exception: Space type is not private office, open office, or computer classroom.
9.4.1.1 (EL1)	Automatic controls to shut off all building lighting.			Complies Does Not Not Observable Not Applicable	
9.4.1.2 (EL2)	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.			Complies Does Not Not Observable Not Applicable	
9.4.1.3 (EL1)	Parking garage lighting is equipped with required lighting controls and daylight transition zone lighting.			Complies Does Not Not Observable Not Applicable	
9.4.1.4 (EL2)	Primary side-lighted areas >= 250 ft² are equipped with required lighting controls.			Complies Does Not Not Observable Not Applicable	
9.4.1.5 (EL13)	Enclosed spaces with daylight area under skylights and rooftop monitors >= 900 ft² are equipped with required lighting controls.			Complies Does Not Not Observable Not Applicable	
9.4.1.7 (EL1)	Automatic lighting controls for exterior lighting installed.			Complies Does Not Not Observable Not Applicable	
9.4.1.6 (EL4)	Separate lighting control devices for specific uses installed per approved lighting plans.			Complies Does Not Not Observable Not Applicable	
9.4.2 (EL16)	Exit signs do not exceed 5 watts per face.			Complies Does Not Not Observable Not Applicable	
9.4.3 (EL7)	Exterior grounds lighting over 100 W provides >= 10% motion or vibration sensor or feature is exempt from scope of code or from external LPD.			Complies Does Not Not Observable Not Applicable	
9.6.2 (EL8)	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.			Complies Does Not Not Observable Not Applicable	
10.4 (EL9)	Electric motor meet requirements where applicable.			Complies Does Not Not Observable Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Frisco Restroom Addition Report date: 04/26/18
Data filename: S:\BG\Projects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calsr\Frisco Comcheck.cck Page 10 of 14

Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
8.4.1 (IF3)	Thermostatic controls have a 5 °F deadband.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.4.3.1 (IF2)	Temperature controls have setpoint override restrictions.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.4.3.3 (IF1)	HVAC systems equipped with at least one automatic shutdown control.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.4.3.3.2 (IF2)	Setback controls allow automatic reset and temporary operation as required for maintenance.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.4.3.7 (IF8)	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.7.2.1 (IF7)	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.7.2.2 (IF8)	Furnished OEM manuals for HVAC systems within 90 days of system acceptance.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.7.2.3 (IF9)	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >= 5,000 ft² of conditioned area.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.7.2.4 (IF10)	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
8.7.1 (IF6)	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
8.7.2 (IF7)	Furnished OEM instructions for systems and equipment to the builder's owner or designee representative.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
9.2.2.3 (IF8)	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	Complies Does Not Not Observable Not Applicable	See the interior lighting fixture schedule for values.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Frisco Restroom Addition Report date: 04/26/18
Data filename: S:\BG\Projects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calsr\Frisco Comcheck.cck Page 12 of 14

Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
10.4.3 (IF24)	Elevators are designed with the proper lighting, ventilation power, and standby mode.	Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Frisco Restroom Addition Report date: 04/26/18
Data filename: S:\BG\Projects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calsr\Frisco Comcheck.cck Page 13 of 14



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FRISCO DAY LODGE RENOVATION
(ALTERNATE #1)
621 RECREATION WAY
FRISCO, CO 80443

PROJ. NO.
DRAWN: EMR
CHECKED: BGR
APPROVED: BGR
DATE: 2018-04-27

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FRISCO DAY LODGE RENOVATION
(ALTERNATE #1)
ISSUED FOR:
PERMIT SET

SHEET TITLE:
ELECTRICAL COVER SHEET

SCALE: NOT TO SCALE
SHEET NUMBER

E-000

ELECTRICAL SHEET INDEX		ISSUE LOG	
#	TITLE	100% DD - 04.03.18	PERMIT SET - 04.27.18
E-000	ELECTRICAL COVER SHEET	✓	✓
E-001	ELECTRICAL SCHEDULES	✓	✓
E-101	ELECTRICAL DEMO AND NEW PLANS	✓	✓
E-200	ELECTRICAL SPECIFICATIONS	✓	✓

ISSUE LOG KEY:
 ✓ ISSUED AS PART OF SET
 ✗ NOT PART OF SET
 * ISSUED FOR INFORMATION ONLY

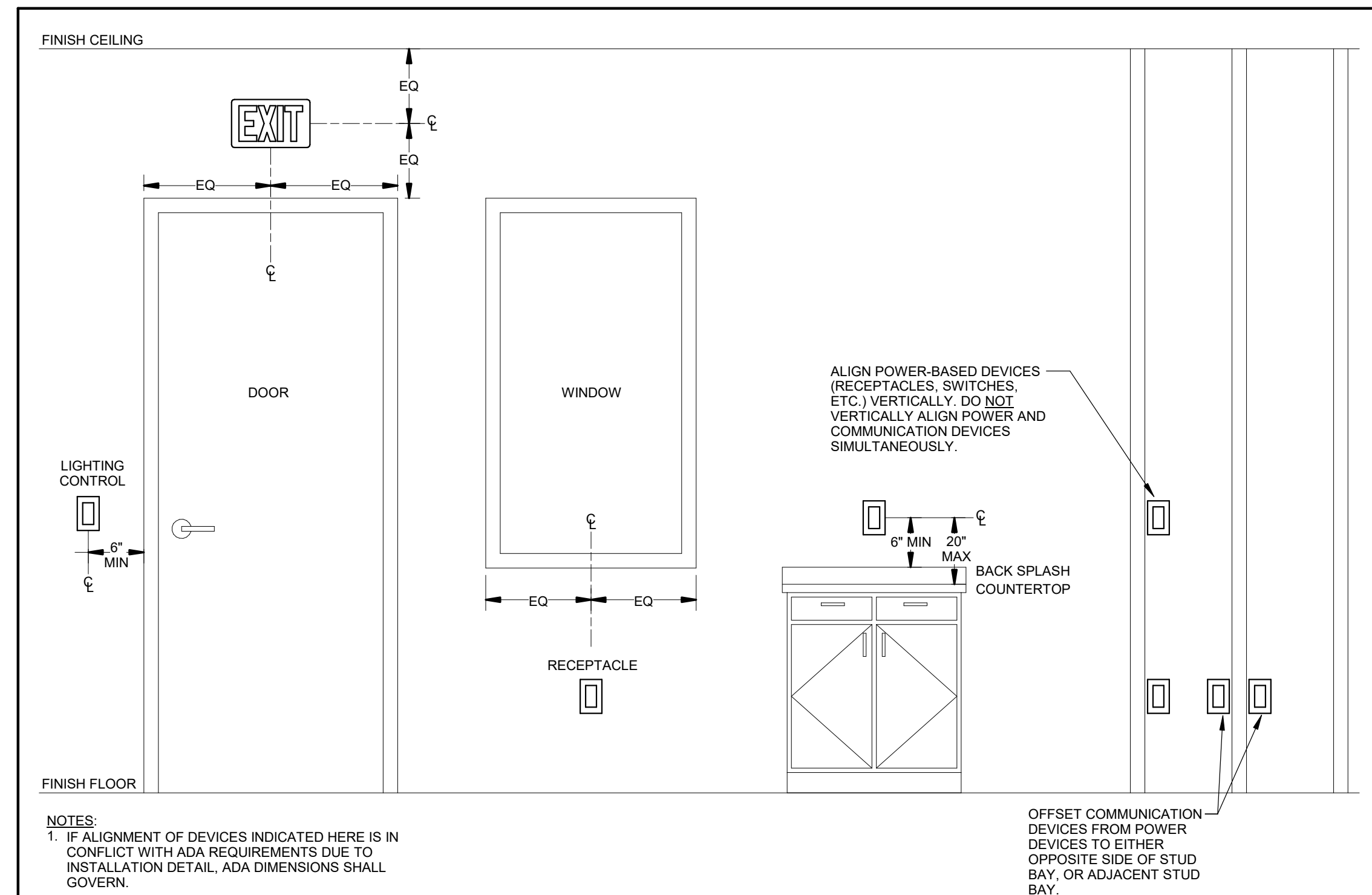
GENERAL NOTES:

- THESE DRAWINGS ACCOMPANY THE PUBLISHED CONSTRUCTION DOCUMENT SPECIFICATION BOOK (PROJECT MANUAL).
- DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS ON ARCHITECTURAL DRAWINGS AND IN FIELD PRIOR TO COMMENCEMENT OF WORK.
- VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN HIS BID COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.
- SYSTEM OUTAGES SHALL BE PERMITTED ONLY AT TIMES APPROVED BY OWNER - IN WRITING. WORK WHICH COULD RESULT IN AN ACCIDENTAL OUTAGE (BEYOND BRANCH CIRCUITS) SHALL BE PERFORMED WITH THE OWNER'S MAINTENANCE PERSONNEL ADVISED OF SUCH WORK.
- SERVICE SHALL BE MAINTAINED TO EXISTING AREAS DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE PORTABLE GENERATORS, CABLES, OUTLETS, ETC. AS REQUIRED TO MAINTAIN CONTINUITY OF SERVICE. PLACEMENT OF SUCH PORTABLE EQUIPMENT SHALL BE SUBJECT TO OWNER APPROVAL.
- REVIEW ARCHITECTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID.
- WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT.
- WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES AND ORDINANCES.
- PROVIDE PERMITS AND INSPECTIONS REQUIRED.
- PROVIDE 1/4" SCALE LAYOUT DRAWINGS OF ROOMS WITH ELECTRICAL SWITCHBOARDS AND TRANSFORMERS WITH SHOP DRAWINGS SUBMITTED. LAYOUTS SHALL SHOW LOCATIONS OF, AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT. ALL EQUIPMENT SHALL BE DRAWN TO SCALE.
- CONTRACTOR'S FAILURE TO ORDER OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS.
- VERIFY EXACT LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SERVICE FEEDERS (CONDUIT AND/OR WIRE), PULLBOXES, TRANSFORMER PADS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC. REQUIRED. BACKFILL TRENCHES TO 90 PERCENT COMPACTION AND PATCH TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS. ELECTRICAL CONTRACTOR IS TO SUBMIT A COMPLETE CONSTRUCTION DRAWING SET TO THE ELECTRICAL UTILITY COMPANY WITH-IN 10 DAYS OF AWARD OF CONTRACT. COORDINATE TIMELINE OF THEIR REVIEW, APPROVAL, CONSTRUCTION SCHEDULING AND INSTALLATION OF THE UTILITY TRANSFORMER WITH THE UTILITY COMPANY. NOTIFY OWNER OF ANY SCHEDULING CONFLICTS.
- EXISTING SYSTEMS AND CONDITIONS SHOWN ON DRAWINGS FOR EXISTING BUILDINGS ARE TO BE NOTED "FOR GUIDANCE ONLY". THE ELECTRICAL CONTRACTOR TO FIELD CHECK ALL EXISTING CONDITIONS PRIOR TO BIDDING AND TO INCLUDE IN HIS BID AN ALLOWANCE FOR REMOVAL AND/OR RELOCATION OF EXISTING CONDUITS, WIRES, DEVICES, FIXTURES, OR OTHER EQUIPMENT AS INDICATED ON THE PLANS OR AS REQUIRED TO COORDINATE AND ADAPT NEW AND EXISTING ELECTRICAL SYSTEM TO ALL OTHER WORK AS REQUIRED.
- PROVIDE ELECTRICAL DEMOLITION REQUIRED. REFER TO ARCHITECTURAL AND ELECTRICAL DEMOLITION DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK INVOLVED.
- PROVIDE ALL NECESSARY DEMOLITION TO REMOVE EXISTING UNUSED CONDUIT, WIRE, CABLE, J-BOXES, RECEPTACLES, SWITCHES, LIGHTS, FIRE ALARMS DEVICES, ETC. COMPLETE WITH ASSOCIATED CIRCUITING TO SOURCE. WHERE IT IS NOT FEASIBLE TO REMOVE THE ABOVE, OUTLET SHALL BE ABANDONED, WIRE REMOVED, AND BLANK COVER PLATES PROVIDED.
- ALL (E) EQUIPMENT, LAMPS, BALLASTS, ETC. BEING REMOVED SHALL BE DISCARDED IN ACCORDANCE WITH APPLICABLE EPA REQUIREMENTS.
- EXISTING LIGHT FIXTURES, ELECTRICAL EQUIPMENT, ETC. BEING REMOVED SHALL BE RETURNED TO THE OWNER, EXCEPT FOR THOSE ITEMS BEING RELOCATED.
- VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.
- INSTALL ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY DEVIATIONS SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION PRIOR TO INSTALLATION.
- FINAL CONNECTIONS TO EQUIPMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER'S APPROVED WIRING DIAGRAMS, DETAILS, AND INSTRUCTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING EQUIPMENT WHICH IS DAMAGED DUE TO INCORRECT FIELD WIRING PROVIDED UNDER THIS SECTION, OR FACTORY WIRING IN EQUIPMENT PROVIDED UNDER THIS SECTION.
- ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LABELED BY U.L. OR OTHER RECOGNIZED TESTING FACILITY.
- WIRING DEVICES SHALL BE SPECIFICATION GRADE AND RATED AT 20 AMPERES FOR LIGHT SWITCHES, AND 20 AMPERES FOR DUPLEX RECEPTACLES. THE COLOR OF THE DEVICES AND COVER PLATES SHALL BE AS DIRECTED BY ARCHITECT.
- ALL WIRING SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. EMT FITTINGS SHALL BE MALLEABLE IRON OR STEEL CONNECTORS SHALL BE INSULATED THROAT TYPE. MINIMUM CONDUIT SIZE IS 3/4". FOLLOW NEC FOR MAXIMUM NUMBER OF CONDUCTORS PER CONDUIT. CONDUIT SHALL BE OF SUFFICIENT SIZE AND CONDUCTOR QUANTITY SHALL BE LIMITED TO ELIMINATE THE NEED TO DE-RATE CONDUCTORS. METAL CLAD CABLE IS [NOT] PERMITTED.
- ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB NYLON PULL STRING OR EQUAL, AND SHALL BE IDENTIFIED AT ALL JUNCTION, PULL AND TERMINATION POINTS, USING PERMANENT METALLIC TAGS. TAG SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION, AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT.
- WIRE SHALL BE COPPER, 75 DEGREE CELSIUS RATED FOR GENERAL USE. WIRING WITHIN 3 INCHES OF FLUORESCENT BALLASTS WIRE SHALL BE COPPER, MINIMUM 90 DEGREE CELSIUS RATED. SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30 DEGREE CELSIUS AMBIENT. CONDUCTOR AMPACITY SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS.
- PROVIDE NEW UPDATED PANELBOARD DIRECTORIES FOR EXISTING AND NEW CIRCUITS BEING UTILIZED FOR COMPLETION OF PROJECT.
- PANEL DIRECTORIES SHALL BE REMOVABLE. ROOM NAMES AND NUMBERS SHALL BE AS DIRECTED BY OWNER. DIRECTORIES SHALL BE TYPED AND INSTALLED UNDER CLEAR PLASTIC COVERS.
- FINAL CONNECTIONS TO MOTORS, TRANSFORMERS, AND OTHER VIBRATING EQUIPMENT SHALL BE SEAL TITE FLEX AND APPROVED FITTINGS. DO NOT SECURE CONDUITS, DISCONNECTS, OR DEVICES TO DUCTWORK OR MECHANICAL EQUIPMENT.
- FIRE ALARM, SOUND, TELEPHONE, COMPUTER AND SIMILAR SYSTEMS CONDUITS LARGER THAN 1" SHALL HAVE LONG RADIUS SWEEPS (12 TIMES THE DIAMETER).
- SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.
- GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
- SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE.

ELECTRICAL SYSTEMS LEGEND		NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.	
LIGHTING FIXTURE SYMBOLS		POWER SYMBOLS	
	RECESSED LIGHTING FIXTURE		SINGLE RECEPTACLE
	DIRECTIONAL/ADJUSTABLE RECESSED LIGHTING FIXTURE		DUPLEX RECEPTACLE
	SURFACE MOUNTED LIGHT		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
	PENDANT MOUNTED LIGHT		DOUBLE DUPLEX RECEPTACLE
	WALL MOUNTED LIGHT		GFCI DUPLEX RECEPTACLE
	WALL MOUNTED UP-LIGHT		DUPLEX RECEPTACLE; HALF SWITCHED
	MONO-POINT LIGHTING FIXTURE		ISOLATED GROUND DUPLEX RECEPTACLE
	RECESSED STEP LIGHT		MULTI-OUTLET PLUG STRIP
	FLUORESCENT STRIP LIGHT		FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE
	WALL MOUNTED LINEAR FLUORESCENT LIGHT		FLUSH FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE
	RECESSED OR SURFACE MOUNTED FLUORESCENT TROFFER		FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE; HALF SWITCHED
	FIXTURE WITH EMERGENCY BACKUP OR ON EM CIRCUIT		FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE AND TELECOM
	CEILING MOUNTED EXIT SIGN W/ FACES & ARROWS AS SHOWN		WALL MOUNTED SPECIAL OUTLET AS NOTED
	WALL MOUNTED EXIT SIGN W/ FACES & ARROWS AS SHOWN		SPECIAL OUTLET AS NOTED
	EMERGENCY LIGHTS		JUNCTION BOX
	EXTERIOR POLE MOUNTED LIGHT		WALL MOUNTED JUNCTION BOX
	EXTERIOR POST (BOLLARD) MOUNTED LIGHT		FLOOR MOUNTED JUNCTION BOX
LIGHTING CONTROL SYMBOLS			DIVISION 15 EQUIPMENT POWER CONNECTION
	SWITCH		TIMER SWITCH
	THREE-WAY SWITCH		FUSED DISCONNECT
	FOUR-WAY SWITCH		NON FUSED DISCONNECT
	DOOR JAMB SWITCH		MOTOR STARTER
	KEY SWITCH		ENCLOSED CIRCUIT BREAKER
	VARIABLE SPEED SWITCH		PULL BOX
	THERMAL OVERLOAD SWITCH		PUSH BUTTON
	DIMMER		TIME CLOCK
	THREE-WAY DIMMER		PHOTO-CELL
	LOW VOLTAGE SWITCH		TRANSFORMER
	WALL OCCUPANCY SENSOR/SWITCH		PANELBOARD OR LOADCENTER
	OCCUPANCY SENSOR - WALL MOUNTED		CONTACTOR
	OCCUPANCY SENSOR - CEILING MOUNTED		ELECTRIC MOTOR
	OCCUPANCY SENSOR - CORRIDOR CEILING MOUNTED		METER
	DAYLIGHT PHOTO SENSOR		THERMOSTAT
			AUTOMATIC TRANSFER SWITCH
			CIRCUIT HOMERUN
			CONDUIT RUN
			CONDUIT RUN BELOW GRADE
			CONDUIT UP
			CONDUIT DOWN
			SWITCH
			THERMAL OVERLOAD SWITCH
			VARIABLE SPEED SWITCH
			KEY SWITCH
		ONE-LINE DIAGRAM SYMBOLS	
			DISCONNECT SWITCH
			FUSE
			CIRCUIT BREAKER
			CURRENT TRANSFORMER
			POTENTIAL TRANSFORMER
			METER
			VOLT-METER
			AMP-METER
			SURGE SUPPRESSION DEVICE
			SELECTOR SWITCH
			GROUND FAULT PROTECTION
			SHUNT TRIP
			NORMALLY OPEN CONTACT
			NORMALLY CLOSED CONTACT
			GROUND
			COLD WATER GROUND CONNECTION
			BUILDING STEEL GROUND CONNECTION
		ABBREVIATIONS	
AFC	ABOVE FINISHED CEILING	AL	ALUMINUM
AFF	ABOVE FINISHED FLOOR	AP	ACCESS POINT
AFG	ABOVE FINISHED GRADE	AWG	AMERICAN WIRE GAUGE
AHJ	AUTHORITY HAVING JURISDICTION	BAS	BUILDING AUTOMATION SYSTEM
AL	ALUMINUM	BFG	BELOW FINISH GRADE
AP	ACCESS POINT	BMS	BUILDING MANAGEMENT SYSTEM
AWG	AMERICAN WIRE GAUGE	C	CONDUIT
BAS	BUILDING AUTOMATION SYSTEM	CATV	COMMUNITY (CABLE) ANTENNA TELEVISION SYSTEM
BFG	BELOW FINISH GRADE	CCTV	CLOSED CIRCUIT TELEVISION
BMS	BUILDING MANAGEMENT SYSTEM	CKT	CIRCUIT
C	CONDUIT	CPU	CENTRAL PROCESSING UNIT
CATV	COMMUNITY (CABLE) ANTENNA TELEVISION SYSTEM	CT	CURRENT TRANSFORMER
CCTV	CLOSED CIRCUIT TELEVISION	DISP	GARBAGE DISPOSAL
CKT	CIRCUIT	DW	DISHWASHER
CPU	CENTRAL PROCESSING UNIT	(E)	EXISTING
CT	CURRENT TRANSFORMER	EM	EMERGENCY
DISP	GARBAGE DISPOSAL	EWG	ELECTRIC WATER COOLER
DW	DISHWASHER	FA	FIRE ALARM
(E)	EXISTING	FACP	FIRE ALARM CONTROL PANEL
EM	EMERGENCY	FBO	FURNISHED BY OTHERS
EWG	ELECTRIC WATER COOLER	GC	GENERAL CONTRACTOR
FA	FIRE ALARM	GFI	GROUND FAULT CIRCUIT INTERRUPTER
FACP	FIRE ALARM CONTROL PANEL	GRD	GROUND
FBO	FURNISHED BY OTHERS	JAW	IN ACCORDANCE WITH
GC	GENERAL CONTRACTOR	IC	INTERMEDIATE CROSS-CONNECT
GFI	GROUND FAULT CIRCUIT INTERRUPTER	IDF	INTERMEDIATE DISTRIBUTION FRAME
GRD	GROUND	IG	ISOLATED GROUND
JAW	IN ACCORDANCE WITH	IR	INFRARED
IC	INTERMEDIATE CROSS-CONNECT	LAN	LOCAL AREA NETWORK
IDF	INTERMEDIATE DISTRIBUTION FRAME	MDF	MAIN DISTRIBUTION FRAME
IG	ISOLATED GROUND	(N)	NEW
IR	INFRARED	NIC	NOT IN CONTRACT
LAN	LOCAL AREA NETWORK	NL	NIGHT LIGHT
MDF	MAIN DISTRIBUTION FRAME	NTS	NOT TO SCALE
(N)	NEW	OC	ON CENTER
NIC	NOT IN CONTRACT	PA	PUBLIC ADDRESS
NL	NIGHT LIGHT	REF	REFRIGERATOR
NTS	NOT TO SCALE	TTB	TELECOMMUNICATIONS TERMINAL BOARD
OC	ON CENTER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
PA	PUBLIC ADDRESS	TVTB	TELEVISION TERMINAL BOARD
REF	REFRIGERATOR	UG	UNDERGROUND
TTB	TELECOMMUNICATIONS TERMINAL BOARD	UNO	UNLESS NOTED OTHERWISE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR	V	VOLT
TVTB	TELEVISION TERMINAL BOARD	W	WATT
UG	UNDERGROUND	WAN	WIDE AREA NETWORK
UNO	UNLESS NOTED OTHERWISE	WAP	WIRELESS ACCESS POINT
V	VOLT	WLAN	WIRELESS LOCAL AREA NETWORK
W	WATT	WP	WEATHERPROOF
WAN	WIDE AREA NETWORK	XP	EXPLOSIONPROOF
WAP	WIRELESS ACCESS POINT	+18"	MOUNTING HEIGHT TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR (VERIFY W/ ARCH ELEVATIONS)
WLAN	WIRELESS LOCAL AREA NETWORK	NOTES:	
WP	WEATHERPROOF	- LIGHT LINEWEIGHT INDICATES EXISTING.	
XP	EXPLOSIONPROOF	- HATCHED AREAS INDICATE DEMOLITION.	
+18"	MOUNTING HEIGHT TO CENTERLINE OF DEVICE ABOVE FINISH FLOOR (VERIFY W/ ARCH ELEVATIONS)	- 'C' ADJACENT TO A DEVICE INDICATES MOUNTING ABOVE COUNTERTOP.	



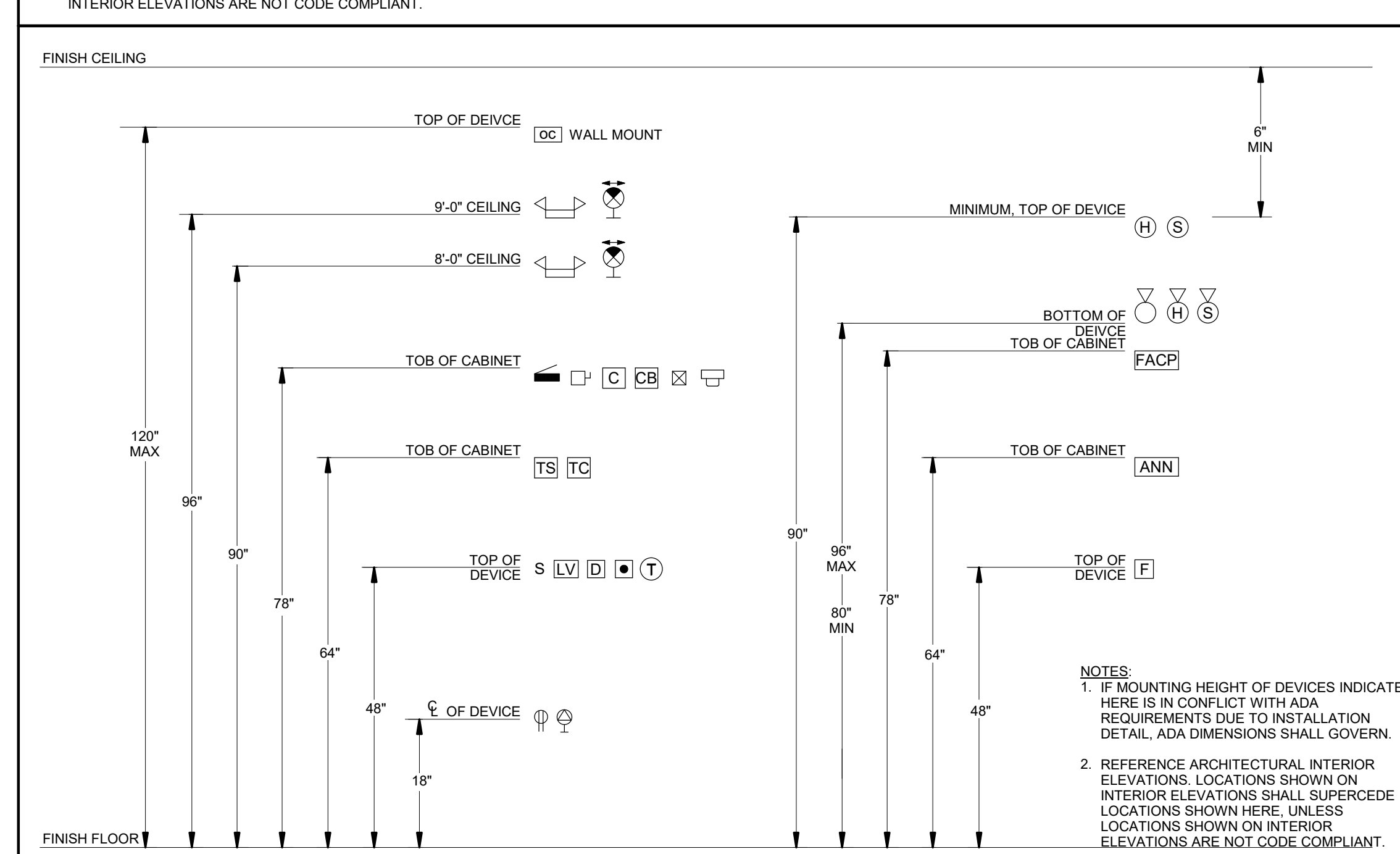
FRISCO DAY LODGE RENOVATION (ALTERNATE #1) 621 RECREATION WAY FRISCO, CO 80443



TYPICAL DEVICE MOUNTING HEIGHTS

SCALE: NONE

NOTES:
1. IF ALIGNMENT OF DEVICES INDICATED HERE IS IN CONFLICT WITH ADA REQUIREMENTS DUE TO INSTALLATION DETAIL, ADA DIMENSIONS SHALL GOVERN.
2. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS. LOCATIONS SHOWN ON INTERIOR ELEVATIONS SHALL SUPERCEDE LOCATIONS SHOWN HERE, UNLESS LOCATIONS SHOWN ON INTERIOR ELEVATIONS ARE NOT CODE COMPLIANT.



TYPICAL DEVICE MOUNTING HEIGHTS

SCALE: NONE

NOTES:
1. IF MOUNTING HEIGHT OF DEVICES INDICATED HERE IS IN CONFLICT WITH ADA REQUIREMENTS DUE TO INSTALLATION DETAIL, ADA DIMENSIONS SHALL GOVERN.
2. REFERENCE ARCHITECTURAL INTERIOR ELEVATIONS. LOCATIONS SHOWN ON INTERIOR ELEVATIONS SHALL SUPERCEDE LOCATIONS SHOWN HERE, UNLESS LOCATIONS SHOWN ON INTERIOR ELEVATIONS ARE NOT CODE COMPLIANT.

TYPE	DESCRIPTION	MOUNTING	LAMPS		COLOR TEMP. (K)	INPUT WATTS	VOLT	MANUFACTURER	CATALOG NUMBER	SPECIFIC NOTES
			QTY	TYPE						
S1	VANDAL RESISTANT SURFACE FIXTURE	CEILING	2	26W GX24q3	3000K	52	UNV	EATON FAIL-SAFE	TRF15-C-226CT-DT-BRZ-CSTG	
W1	BUILDING MOUNTED EXTERIOR LIGHT	WALL MOUNT	--	LED	3000K	10	120	KICHLER	49065OZLED	

GENERAL NOTES:
A. THE LUMINAIRE SCHEDULE CANNOT BE USED INDEPENDENTLY OF THE DRAWINGS AND SPECIFICATIONS TO OBTAIN LUMINAIRE COSTS. THE INDIVIDUAL ESTABLISHING LUMINAIRE COSTS SHALL NOT QUOTE PRICING WITHOUT FIRST SEEING APPLICABLE ELECTRICAL DRAWINGS AND ELECTRICAL DIVISION SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING NECESSARY DRAWINGS AND SPECIFICATIONS TO THE INDIVIDUAL QUOTING LUMINAIRE PRICING.
B. REFER TO DRAWINGS FOR FIXTURES REQUIRING EMERGENCY BATTERY BACKUP OPTION (SHOWN BY HATCH IN OVER SYMBOL). MINIMUM LIGHT OUTPUT FOR EM BALLAST SHALL BE 600 LUMENS.
C. ALL FLUORESCENT LAMPS ARE TO BE 3500° KELVIN COLOR TEMPERATURE.

SPECIFIC NOTES:
(1)
(2)

MARK	DESCRIPTION	VOLT / PHASE	WATTS	FLA	MCA	MOCAP	DISCONNECT / FUSE SIZE	FEEDER	SPECIFIC NOTES
EF-1	EXHAUST FAN	120/1	75	1	1.0	20	20/1	(2#12 & #12 G) 3/4"	
SF-1	SUPPLY FAN	120/1	75	1	1.0	20	20/1	(2#12 & #12 G) 3/4"	
UH-2	UNIT HEATER	120/1	1000	8	10.4	20	20/1	(2#12 & #12 G) 3/4"	
UH-3	UNIT HEATER	120/1	1800	15	18.8	20	20/2	(2#12 & #12 G) 3/4"	
WH-2	WATER HEATER	208/1	8300	34	43.2	45	45/2	(2#6 & #10 G) 3/4"	

GENERAL NOTES:
A. SEE SPECIFICATIONS FOR ELECTRICAL DIVISION AND MECHANICAL DIVISION MOTOR STARTER COORDINATION.
B. PROVIDE PHASE PROTECTION FOR ALL THREE PHASE MOTORS ABOVE 7-1/2 HP.
C. PROVIDE ALL EXTERIOR DISCONNECTS WITH NEMA 3R RATING.
D. WHEN EQUIPMENT IS LISTED WITH ONLY A HORSEPOWER RATING THE DISCONNECT AND FEEDER ARE SIZED PER THE N.E.C.

PANEL:	DL1
LOCATION:	ELEC. RM. 013
MOUNTING:	SURFACE

VOLTAGE:	120/208V, 3PH, 4W
MINIMUM BUS:	225
MAIN:	MLO
MINIMUM AIC:	22,957

NO.	LOAD			TYPE	LOAD DESCRIPTION	BREAKER			BUS	BREAKER			TYPE	LOAD DESCRIPTION	LOAD			NO.
	A	B	C			POLE	TRIP	A		B	C	TRIP			POLE	A	B	
1	500			M	GF-1	1	20						L	EXIT SIGNS	1000			2
3	1800			M	B-1	1	20						R	STORAGE	500			4
5			790	M	P-1	2	20						R	DOWN OFFICES		900		6
7	790			M	P-1	2	20						R	HALL, ELEC. MECH	1080			8
9			790	M	P-2	2	20						L	BASEMENT		1512		10
11			790	M	P-2	2	20						L	BASEMENT, STAIRS			819	12
13	562			M	P-3	2	20						L	EXT. BUILDING (1) (2)	428			14
15			562	M	P-3	2	20						L	ROOF HOLIDAY LTG (1)		1500		16
17			562	M	P-4	2	20						L	ROOF HOLIDAY LTG (1)		1500		18
19	562			M	P-4	2	20						L	ROOF HOLIDAY LTG (1)	1500			20
21			500	M	WH	1	20						L	ROOF HOLIDAY LTG (1)		1500		22
23			500	E	CPU	1	20						R	EVENT POWER RECEPT.		180		24
25	1944			M	SP-1, SP-2 RCPT	1	30						L	PARKING LIGHTING(1)	468			26
27			748	M	CUH-4, UH-1	1	20						L	PARKING LIGHTING(1)	468			28
29				M	SPARE	1	20						L	ROAD LIGHTING(1)			624	30
31				M	SPARE	1	30						L	PLAZA LIGHTING(1)	596			32
33			1000	E	UH-2 (3)	1	20						L	ROAD LIGHTING(1)		1092		34
35			1800	E	UH-3 (3)	1	20						E	RP1			1000	36
37	500			L	STREET LIGHTS	1	20						A		1500			38
39			500	L	STREET LIGHTS	1	20						A			1500		40
41			500	E	TEK-MER CONTROLS	1	20						A	DISHWASHER			1500	42

LOAD TYPE	PANEL TOTAL	FEED THRU TOTAL	SUBFEED TOTAL	FEEDER SUBTOTAL	DEMAND	FEEDER TOTAL
(L) LIGHTING	14347			14347	125%	17934
(R) RECEPTACLES	3080			3080	NEC 220	3080
(LM) LARGEST MOTOR	0			0	25%	0
(M) MOTORS (ALL)	10900			10900	100%	10900
(E) EQUIPMENT	4800			4800	100%	4800
(A) APPLIANCES	4500			4500	>6	2925

PANEL TOTAL (KVA): 39.6
PANEL TOTAL (A): 110

GENERAL NOTES:
A.
B.
C.
D.
E.

SPECIFIC NOTES:
(1) WIRE THRU RFL.
(2) NEW LIGHTS ADDED TO CIRCUIT.
(3) USE SPARE BREAKER FOR NEW CIRCUIT.
(4)
(5)

PANEL:	DL2
LOCATION:	ELEC. RM. 013
MOUNTING:	SURFACE

VOLTAGE:	120/208V, 3PH, 4W
MINIMUM BUS:	225
MAIN:	MLO
MINIMUM AIC:	21,589

NO.	LOAD			TYPE	LOAD DESCRIPTION	BREAKER			BUS	BREAKER			TYPE	LOAD DESCRIPTION	LOAD			NO.
	A	B	C			POLE	TRIP	A		B	C	TRIP			POLE	A	B	
1	1000			A	EWC	1	20						L	EXIT SIGNS	1000			2
3			1000	A	EWC	1	20						R	ORIENTATION RM		1260		4
5			512	M	CUH-1, CUH-2, CUH-3	1	20						R	TICKET BOOTH		540		6
7	1500			E	FACP	1	20						R	GALLERY, JAN, KITCH	900			8
9			1200	A	AP-2	1	20						R	MEN'S RR		360		10
11			1200	A	AP-1	1	20						R	WOMEN'S RR (2)			824	12
13	1500			A	AP-4	1	20						R	N. GREAT ROOM	720			14
15				M	SPARE	1	20						R	S. GREATROOM		770		16
17			1000	A	AP-6	1	20						E	HAND DRYER (1)		2000		18
19	1500			A	AP-3	1	20						E	HAND DRYER (1)	2000			20
21			720	A	KITCH COUNTER	1	20						E	HAND DRYER (1)		2000		22
23			540	A	KITCH COUNTER	1	20						E	HAND DRYER (1)		2000		24
25	720			R	FIRST AID	1	20						R	EXTERIOR RECEPT	1260			26
27				M	SPARE	1	20						E	MOTORIZED DOOR		1000		28
29			1800	A	HOT CHOCOLATE	1	20						E	MOTORIZED DOOR		1000		30
31	3084			A	PANIN MAKER	2	30						E	MOTORIZED DOOR	1000			32
33			3084	A	PANIN MAKER	2	30						E	MOTORIZED DOOR		1000		34
35			720	A	COUNTER COMPUTERS	1	20						E	IRRIGATION CONTROLS			1000	36
37	4150			E	WH-2 (4)	2	45						L	MAIN LEVEL	861			38
39			4150	E	WH-2 (4)	2	45						L	LC1		1900		40
41			588	L	RR, JAN, TRASH (3)	1	20						L	LC1 - POWER BOOSTER			1900	42

LOAD TYPE	PANEL TOTAL	FEED THRU TOTAL	SUBFEED TOTAL	FEEDER SUBTOTAL	DEMAND	FEEDER TOTAL
(L) LIGHTING	6249			6249	125%	7811
(R) RECEPTACLES	7354			7354	NEC 220	7354
(LM) LARGEST MOTOR	0			0	25%	0
(M) MOTORS (ALL)	512			512	100%	512
(E) EQUIPMENT	22800			22800	100%	22800
(A) APPLIANCES	18348			18348	>6	11926

PANEL TOTAL (KVA): 50.4
PANEL TOTAL (A): 140

GENERAL NOTES:
A.
B.
C.
D.
E.

SPECIFIC NOTES:
(1) COORDINATE C.B. SIZE WITH MANUFACTURER.
(2) NEW RECEPTACLES ADDED TO CIRCUIT.
(3) NEW LIGHTS/FANS ADDED TO CIRCUIT.
(4) PROVIDE NEW BREAKER FOR CIRCUIT.
(5)

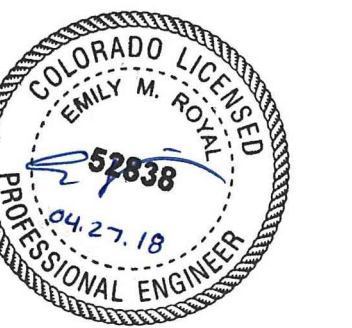
PROJ. NO.
DRAWN: EMR
CHECKED: BGR
APPROVED: BGR
DATE: 2018-04-27

FRISCO DAY LODGE RENOVATION (ALTERNATE #1)
ISSUED FOR:
PERMIT SET

SHEET TITLE:
ELECTRICAL SCHEDULES



3003 Larimer Street
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**FRISCO DAY LODGE RENOVATION
 (ALTERNATE #1)
 621 RECREATION WAY
 FRISCO, CO 80443**

PROJ. NO.
 DRAWN: EMR
 CHECKED: BGR
 APPROVED: BGR
 DATE: 2018-04-27

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FRISCO DAY LODGE
 RENOVATION
 (ALTERNATE #1)
 ISSUED FOR:
 PERMIT SET

SHEET TITLE:
 ELECTRICAL DEMO
 AND NEW PLANS

SCALE: As indicated
 SHEET NUMBER

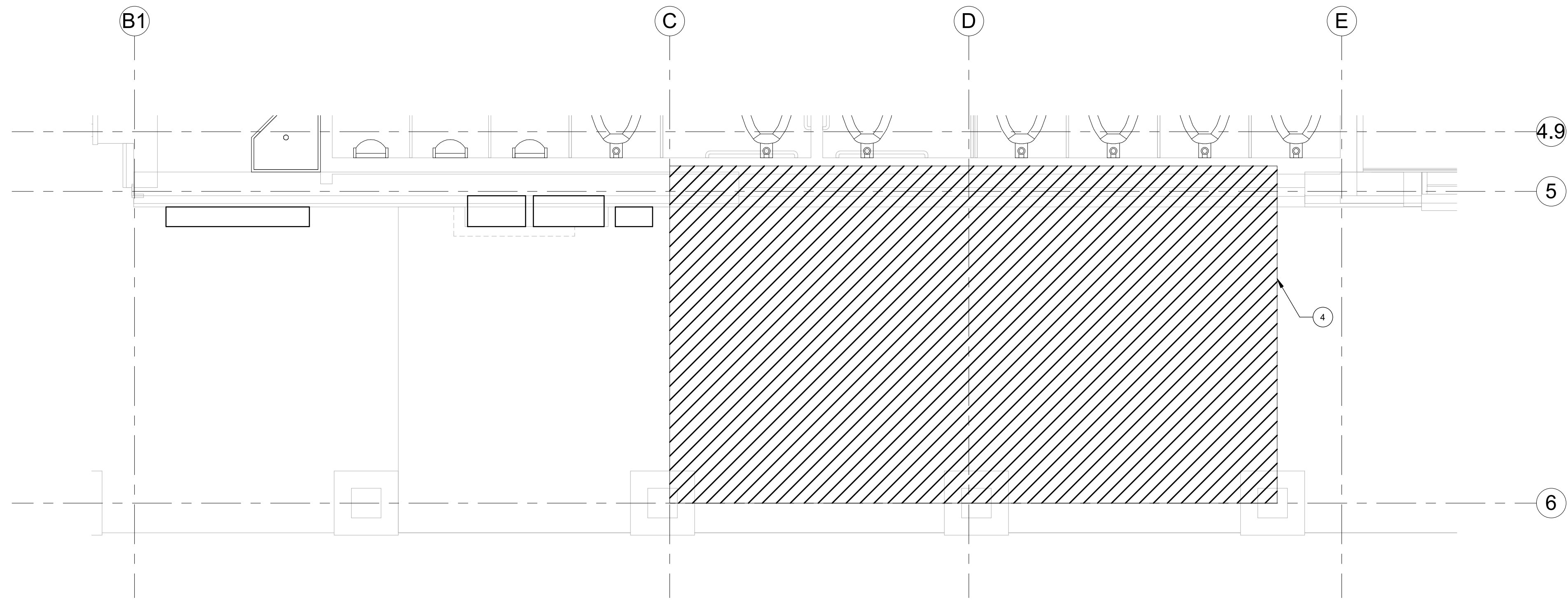
E-101

ELECTRICAL NOTES:

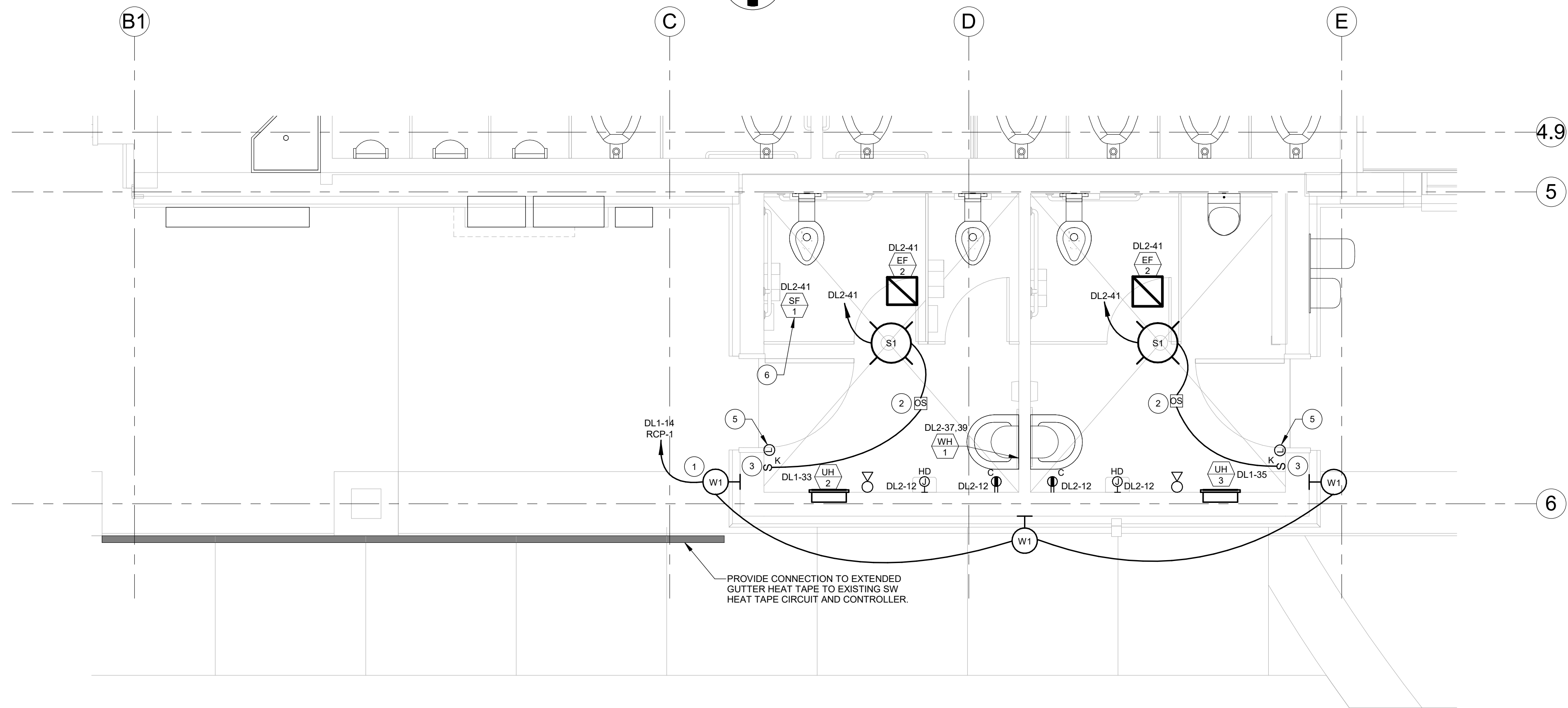
- FIRE PROTECTION ELEMENTS SHOWN HEREIN ARE FOR COORDINATION PURPOSES ONLY. THE ENGINEERING SEAL AFFIXED TO ANY PART OF THIS DOCUMENT SET AND ANY RESPONSIBILITY OF ENGINEER OF RECORD EXPRESSLY EXCLUDES ANY AND ALL FIRE PROTECTION ELEMENTS SHOWN HEREIN.
- FIRE PROTECTION PLANS WHICH ARE PART OF THIS DRAWING SET ARE EXPRESSLY NOT FOR CONSTRUCTION.
- THE FIRE PROTECTION CONTRACTOR WHO IS THE WINNING BIDDER SHALL RETAIN THE SERVICES OF A REGISTERED PROFESSIONAL FIRE PROTECTION ENGINEER. SAID FIRE PROTECTION ENGINEER SHALL PERFORM ALL DESIGN CALCULATIONS, PROVIDE A COMPLETELY DESIGNED FIRE PROTECTION SYSTEM IN A SEPARATE DOCUMENT SET, AND SHALL BE THE ENGINEER OF RECORD FOR THE FIRE PROTECTION SYSTEM.
- THE FIRE PROTECTION SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH NFPA, LOCAL CODES AND ORDINANCES, AND FACTORY MUTUAL WHERE APPLICABLE.
- REFER TO CIVIL AND LANDSCAPING DRAWINGS FOR SITE POWER REQUIREMENTS.

FLAG NOTES:

- EXTERIOR LIGHTING TO BE CONTROLLED THROUGH EXISTING RELAY PANEL.
- PROVIDE WATTSTOPPER LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR (DT-355), LIGHT, EXHAUST FAN, AND SUPPLY FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
- PROVIDE LEGRAND KEYED LIGHT SWITCH FOR OVERRIDE OF OCCUPANCY SENSOR (PS20AC1).
- WALL TO BE DEMOLISHED. ALL EXISTING CONDUIT TO BE RELOCATED TO MAINTAIN ALL EXISTING CIRCUIT CONTINUITY. VERIFY IN FIELD.
- PROVIDE PATHWAY AND A JUNCTION BOX IN AN ACCESSIBLE LOCATION FOR ELECTRIC STRIKE DOOR LOCKS. PROVIDE 120V POWER CONNECTION FROM NEAREST CIRCUIT TO DOOR CONTROLLER TIMER. COORDINATE TIMER LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- SUPPLY FAN TO BE POWERED ON BY EITHER RESTROOM OCCUPANCY SENSOR.



1 LEVEL 1 ELECTRICAL DEMO PLAN
 SCALE: 3/8" = 1'-0"



2 LEVEL 1 ELECTRICAL PLAN
 SCALE: 3/8" = 1'-0"

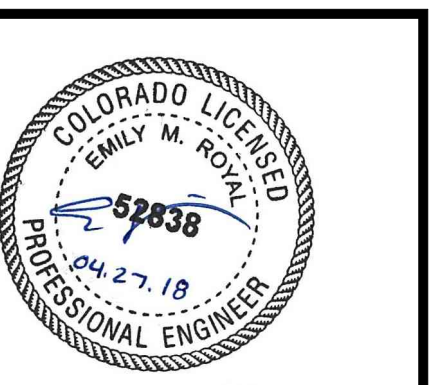
ELECTRICAL SPECIFICATIONS:

SECTION 26 00 10 - GENERAL PROVISIONS
PART 1 - GENERAL
1.01 PROJECT DESCRIPTION
A. This project is an addition of exterior restrooms at the Day Lodge in Frisco, CO.
1.02 PROVISIONS
A. Work performed under this division of the specifications shall conform to the requirements of Division 1, and the electrical drawings and all items hereinafter specified.
1.03 WORK INCLUDED
A. The electrical system required for this work to include, but is not necessarily limited to:
1. Complete branch circuit wiring for lighting, motors, receptacles, junction boxes, and similar uses.
1.04 CODES AND STANDARDS
A. The applicable and enforced editions of the following Codes and published standards (including supplements and official interpretations) are minimum requirements:
1. NFPA 70 - National Electrical Code (NEC).
1.05 EXAMINATION OF BIDDING DOCUMENTS
A. Each bidder shall examine the bidding documents carefully, and not later than seven days prior to the date of receipt of bids, shall make written request to the Architect for interpretation or correction of any discrepancies, ambiguities, inconsistencies, or errors therein which he may discover.
1.06 EXAMINATION OF PREMISES
A. Visit site prior to bid and verify that conditions are as indicated. Contractor shall include in his bid costs required to make his work meet existing conditions.
1.07 EXISTING CONDITIONS
A. Existing systems and conditions shown on drawings for existing buildings are to be noted "for guidance only".
1.08 PERMITS, FEES & NOTICES
A. Obtain and pay for all necessary permits, inspections and certificates that will be necessary for the full completion of the work.
1.09 TESTS
A. Upon completion of all work and adjustment of all equipment, provide complete operational tests of all electrical equipment provided under this division.
1.10 WARRANTY
A. Guarantee that all work governed by this division shall be free of defects in workmanship, materials and parts for a period of one (1) year after written acceptance.
1.11 RECORD DRAWINGS
A. During the progress of the work, maintain an accurate record of the installation of the electrical system.

1.12 PROTECTION
A. Of People: Arrange barriers, signs, etc. as required to minimize the hazard of people.
B. Of Work: Take all measures necessary to protect the work both before and after installation, to assure that it will be in clean, undamaged, unblemished condition when turned over to the Owner.
PART 2 - PRODUCTS
2.01 STANDARD FOR MATERIALS
A. All electrical material shall be new and of the quality and type specified.
2.02 SHOP DRAWINGS
A. Shop drawings required for this project are as follows:
1. Lighting fixtures
2. Lamps
3. Wiring devices
4. Fire alarm and detection system
2.03 BID ALTERNATE(S)
A. Refer to Division 1 for additional information.
B. Alternate(s) for Material and Equipment
1. Equipment and material bid alternate(s) shall be proposed as additive or deductive alternate(s) to specified items by submitting it as a separate line item from the base bid on the Bidder's letterhead.
2. Such bid alternate proposals shall not be substituted or included in the base bid.
2.04 SUBSTITUTIONS
A. Bidder's Choice: Material or equipment listed by several manufacturers' names are intended to be bidder's choice, and any of the listed manufacturers may be used in the base bid.
PART 3 - EXECUTION
3.01 WORKMANSHIP AND COMPLETION OF INSTALLATION
A. Contractor's personnel and subcontractors selected to perform the work shall be well versed and skilled in the trades involved.
B. Coordinate electrical equipment and materials installation with other building components.
C. Sequence, coordinate, and integrate installations of electrical materials and equipment for efficient flow of the work.
3.02 PROGRESS OF WORK
A. Order the progress of electrical work to conform to the progress of the work of the other trades.
3.03 TRENCHING AND BACKFILLING
A. Perform all trenching and backfilling required by work performed under this Section in accordance with the excavating and grading specifications as herein specified.
3.04 CUTTING AND PATCHING
A. Provide all cutting, trenching, backfilling, patching and refinishing required for electrical work in a manner meeting the approval of the Engineer and at no additional cost to the Owner.
3.05 DELIVERY AND STORAGE OF MATERIALS
A. Arrange and be held responsible for delivery and safe storage of materials and equipment for electrical installation.
B. Carefully check materials furnished by the Contractor for installation, and provide receipt acknowledging acceptance of delivery and condition of the materials received.

3.06 PROTECTION OF WORK AND PROPERTY
A. Where there are existing facilities, be responsible for the protection thereof, whether or not such facility is to be removed or relocated.
B. Close all conduit openings with caps or plugs during installation.
C. Acceptance Demonstration: Upon completion of the work, at a time to be designated by the Architect, the Contractor shall demonstrate for the Owner the operation of the entire installation.
3.07 IDENTIFICATION
A. General: Provide the following services and materials to assist the Owner in operation and maintenance.
B. Directory Cards, Nameplates and Labels: No temporary markings, which are visible on equipment, shall remain after the project is complete.
3.08 CONSTRUCTION LIGHTING AND POWER
A. Provide all temporary facilities required to supply construction power and light.
3.09 REMODELING PROVISIONS
A. Existing systems and conditions shown on the drawings are provided for guidance only.
B. Where the reuse of existing conduits, outlets, junction boxes, etc., is permissible, make certain that the wiring form there is continuous from outlet to outlet.
3.10 WIRING DEVICES INSTALLATION
A. Review architectural and mechanical drawings before installing outlets.
B. Switch and receptacle outlet boxes shall be standard boxes with cover plates.
C. Receptacles in wet locations shall be installed with a hinged outlet cover/closure marked "suitable for wet locations while in use" and "UL listed".
PART 2 - PRODUCTS
2.01 LED FIXTURES
A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
2.02 DEVICES
A. Wiring devices shall be specification duplex receptacles: switches, receptacles, and other devices shall be Leviton Decora style, or Pass Seymour, Cooper, or Hubbell equivalent.
B. GFCI receptacles shall be straight blade through type with indicator light that is lighted when device is tripped.
C. Switches shall be 120/277V, 20A, rocker type.
D. Wall Switch Occupancy Sensors: 120/277V, adjustable time delay up to 20 minutes, 180 degree field of view switch with a minimum coverage area of 300 square feet.
E. Wall plates shall be smooth, high-impact thermoplastic material finished spaces.
PART 3 - EXECUTION
3.01 CONDUIT INSTALLATION
A. All feeder wiring shall be installed in listed metallic raceways.
B. Make conduit bends with standard conduit elbows or conduit bent to not less than the same radius.
C. All fittings in wet places, locations exposed to weather, or buried in masonry, concrete or fill, shall be water-tight.
3.02 WIRE INSTALLATION
A. Branch circuit conductors shall be as follows:
1. For general applications through size #8 THWN 75°C wire and full size ground, or type THHN 90°C.
2. Branch circuit conductors through size #10 to be solid, #8 and larger standard.
3. Unless indicated on the drawings, (the minimum) wire used for branch circuits shall be #12 THWN protected by 20 ampere circuit breakers.
4. Branch circuits for receptacles shall be on 20 amp, single pole circuit breakers with #12 conductors.
5. Lighting branch circuit shall not be loaded to more than 75% of breaker rating.
3.03 WIRING DEVICES INSTALLATION
A. Review architectural and mechanical drawings before installing outlets.
B. Switch and receptacle outlet boxes shall be standard boxes with cover plates.
C. Receptacles in wet locations shall be installed with a hinged outlet cover/closure marked "suitable for wet locations while in use" and "UL listed".
D. Flush mount lighting switches 4'0" centerline above finished floor unless otherwise indicated.
E. Route dedicated neutral conductors on line and load side of dimmers per manufacturer's instructions.
F. Identify panelboard and circuit number on receptacles with hot stamped or engraved machine printed label on face of plate.
3.05 DEVICES
A. Support all panels, junction boxes and other electrical devices in a manner as required by the N.E.C.
B. Bolt-free standing equipment to 4" high concrete housekeeping pads.
3.06 EQUIPMENT FURNISHED BY OTHERS AND/OR OWNER
A. Verify exact location and requirements of equipment to be furnished by others prior to rough-in.
B. Support owner furnished equipment for damage, defects, missing components, etc.
PART 1 - GENERAL
1.01 PROVISIONS
A. Provide all interior and exterior lighting fixtures as shown on the plans and hereinafter specified.
B. Fixtures shall be as shown in the fixture schedule.
C. Verify trim, finish and general description of all lighting fixtures through shop drawing approval prior to placing order for fixtures.
D. If it is necessary for the Architect/Engineer to respec'd light fixtures which are still available from the manufacturer (i.e. not "discontinued") but cannot be obtained in time for installation as the result of the contractor's failure to promptly order such fixtures, the contractor shall be back-charged at the rate of \$75 per hour for the Architect/Engineer's services.
1. Alternately, the Contractor may be required to pay to air freight fixtures to the construction site at no additional charge to the Owner if this will result in the specified fixtures being available for installation in time to meet the project schedule.

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FRISCO DAY LODGE RENOVATION (ALTERNATE #1)
621 RECREATION WAY
FRISCO, CO 80443

PROJ. NO.
DRAWN: Author
CHECKED: Checker
APPROVED: Approver
DATE: 2018-04-27

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FRISCO DAY LODGE RENOVATION (ALTERNATE #1) ISSUED FOR PERMIT SET

SHEET TITLE: ELECTRICAL SPECIFICATIONS
SCALE: SHEET NUMBER
E-200