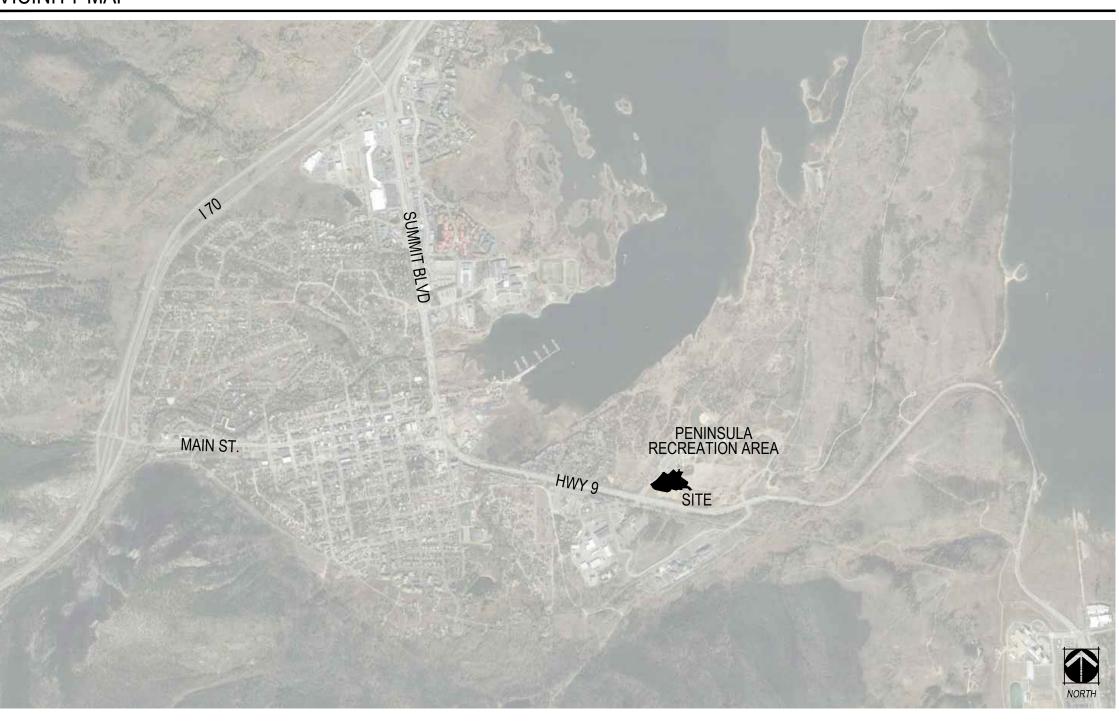
VICINITY MAP



OWNER



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

LANDSCAPE ARCHITECT



SKATEPARK DESIGNER



EVERGREEN SKATEPARKS 5327 SE 69TH AVENUE PORTLAND, OR 97206 P: 503.807.0103

IRRIGATION



OWNER'S REPRESENTATIVE



NV5 2650 18TH STREET SUITE 202 DENVER, CO 80211 CONTACT: TYLER LUNDSGAARD P: 720.788.3422

ARCHITECT



ARCHITECTURE URBAN DESIGN INTERIOR DESIGN P: 303.861.5704

CIVIL ENGINEER



FRISCO PENINSULA RECREATION AREA

SITE IMPROVEMENTS

DESIGN DEVELOPMENT TOWN OF FRISCO, STATE OF COLORADO

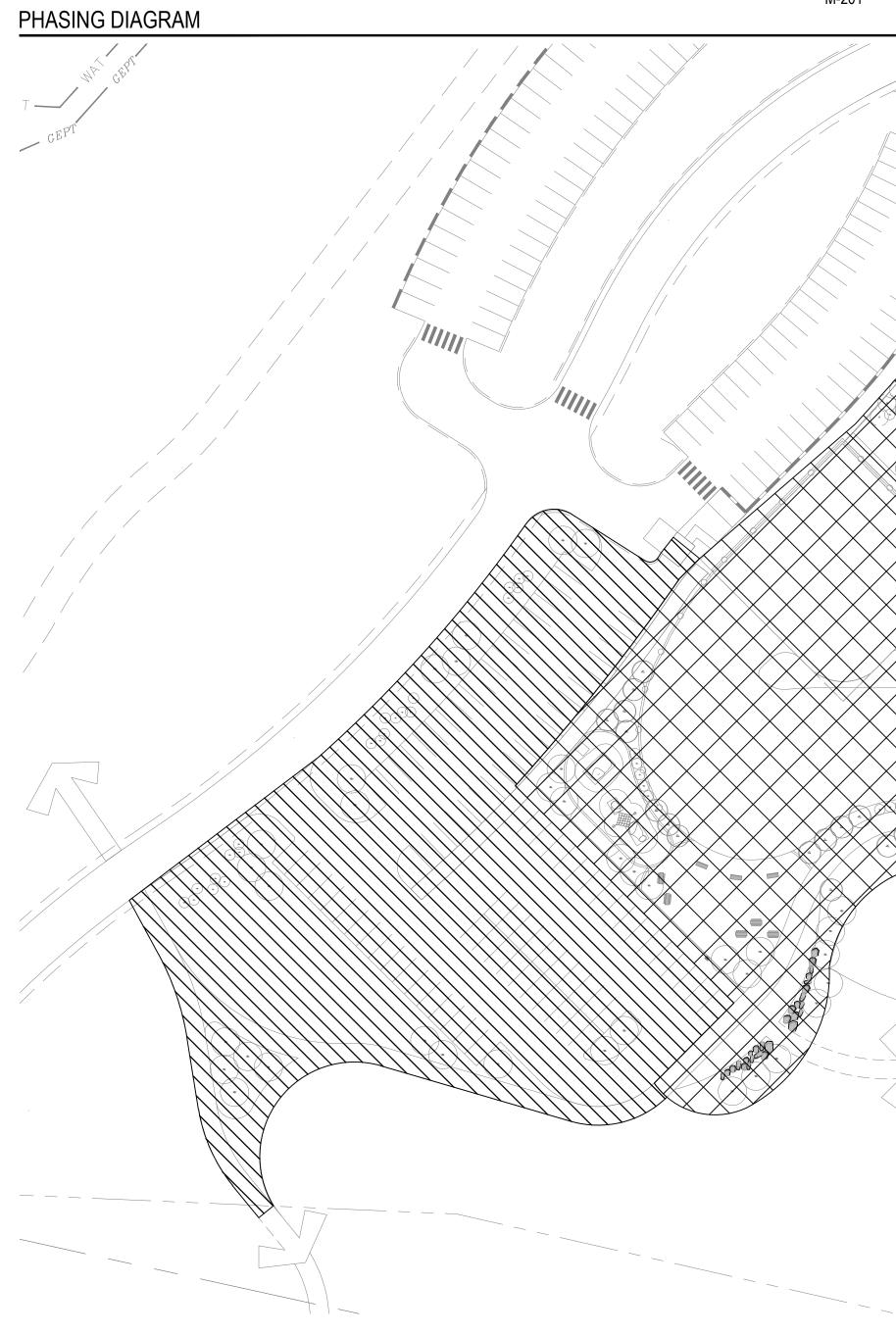
80443

SHEET INDEX

S COVER SHEET	CIVIL	ARCHITECTURE	ELECTRICAL
ENERAL	C-001 GENERAL NOTES	A-100 SITE PLAN & BUILDING CODE PLAN	E-000 ELECTRICAL COVER SHEET
-000 COVER	C-100 DEMOLITION SITE PLAN	A-101 DEMO FLOOR PLAN	E-001 ELECTRICAL SCHEDULES
-101 PROJECT SPECIFICATIONS	C-200 CIVIL SITE PLAN	A-102 FLOOR PLAN	E-101 ELECTRICAL DEMO AND NEW PLANS
-102 PROJECT SPECIFICATIONS	C-201 GRADING PLAN	A-103 ROOF PLAN	E-200 ELECTRICAL SPECIFICATIONS
-102 PROJECT SPECIFICATIONS	C-202 CIVIL RESTROOM SITE & GRADING PLA	A-131 LEVEL 1 RCP	
-120 COMCHECK REPORT	C-400 STORM SEWER PLAN	A-140 INTERIOR FINISH PLAN & LEGEND	LANDSCAPE
-201 SIGN TYPES	C-500 EROSION CONTROL PLAN	A-201 BUILDING ELEVATIONS	L 0-00 LANDSCAPE NOTES
-401 STANDARD MOUNTING HEIGHTS - ANSI 200	C-501 EROSION CONTROL DETAILS	A-202 BUILDING ELEVATIONS	L 1-01 OVERALL LANDSCAPE PLAN
-501 EXTERIOR ASSEMBLIES & PARTITION TYPE		A-301 BUILDING SECTIONS	L 2-01 LANDSCAPE ENLARGEMENT
-301 EXTERIOR ASSEMBLIES & FARTITION TIPE	_0	A-302 BUILDING SECTIONS	L 2-02 LANDSCAPE ENLARGEMENT
	STRUCTURAL	A-501 DETAILS	L 3-01 LANDSCAPE DETAILS
	S-101 GENERAL NOTES & DETAILS	A-601 DOOR SCHEDULE & DETAILS	L 3-02 LANDSCAPE DETAILS
	S-102 FRAMING PLANS		L 3-03 LANDSCAPE DETAILS
		MECHANICAL	
		M-000 MECHANICAL COVER SHEET	IRRIGATION
		M-001 MECHANICAL SCHEDULES	IR 0-00 IRRIGATION NOTES
		M-101 MECHANICAL PLANS	IR 1-01 IRRIGATION PLAN
		M-200 MECHANICAL SPECIFICATIONS	IR 2-01 IRRIGATION DETAILS
		M-201 COPE COMPLIANCE DOCUMENTS	IR 2-02 IRRIGATION DETAILS
HASING DIAGRAM			
/ /			

OZ ARCHITECTURE 3003 LARIMER STREET DENVER, CO 80205

MARTIN / MARTIN DONSULTING ENGINEERS MARTIN & MARTIN 101 FAWCETT ROAD SUIT 260 AVON, CO 81620 P: 970.926.6007



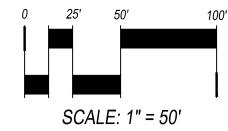
100 0-8

PHASE 1

PHASE 2 - FUTURE WORK

NOTE: IRRIGATION POINT OF CONNECTION AND INSTALLATION OF MAINLINE SHALL BE INCLUDED WITH PHASE 1. REFERENCE IRRIGATION PLANS.





COVER SHEET

GENERAL NOTES

- THESE PLANS SHALL NOT BE UTILIZED FOR CONSTRUCTION OR PERMITTING UNLESS STATED FOR SUCH USE IN THE TITLE BLOCK.
- DRAWINGS ARE INTENDED TO BE PRINTED ON 24" X 36" PAPER. PRINTING THESE DRAWINGS AT A DIFFERENT SIZE WILL IMPACT THE SCALE. VERIFY THE GRAPHIC SCALE BEFORE REFERENCING ANY MEASUREMENTS ON THESE SHEETS. THE RECIPIENT OF THESE DRAWINGS SHALL BE RESPONSIBLE FOR ANY ERRORS RESULTING FROM INCORRECT PRINTING, COPYING, OR ANY OTHER CHANGES THAT ALTER THE SCALE OF THE DRAWINGS
- VERIFY ALL PLAN DIMENSIONS PRIOR TO START OF CONSTRUCTION. NOTIFY THE OWNER'S
- REPRESENTATIVE TO ADDRESS ANY QUESTIONS OR CLARIFY ANY DISCREPANCIES. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS
- SUBMIT A CHANGE ORDER FOR APPROVAL FOR ANY CHANGES TO WORK SCOPE RESULTING FROM FIELD CONDITIONS OR DIRECTION BY OWNER'S REPRESENTATIVE WHICH REQUIRE ADDITIONAL COST TO THE OWNER PRIOR TO PERFORMANCE OF WORK
- THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED. ALL LAYOUT INFORMATION IS AVAILABLE IN DIGITAL FORMAT FOR USE BY THE CONTRACTOR.
- IF A GEOTECHNICAL SOILS REPORT IS NOT AVAILABLE AT THE TIME OF CONSTRUCTION, NORRIS DESIGN RECOMMENDS A REPORT BE AUTHORIZED BY THE OWNER AND THAT ALL RECOMMENDATIONS OF THE REPORT ARE FOLLOWED DURING CONSTRUCTION. THE CONTRACTOR SHALL USE THESE CONTRACT DOCUMENTS AS A BASIS FOR THE BID. IF THE OWNER ELECTS TO PROVIDE A GEOTECHNICAL REPORT. THE CONTRACTOR SHALL REVIEW THE REPORT AND SUBMIT AN APPROPRIATE CHANGE ORDER TO THE OWNER'S REPRESENTATIVE IF ADDITIONAL COSTS ARE REQUESTED.
- CONTRACTOR SHALL CONFIRM THAT SITE CONDITIONS ARE SIMILAR TO THE PLANS, WITHIN TOLERANCES STATED IN THE CONTRACT DOCUMENTS, AND SATISFACTORY TO THE CONTRACTOR PRIOR TO START OF WORK. SHOULD SITE CONDITIONS BE DIFFERENT THAN REPRESENTED ON THE PLANS OR UNSATISFACTORY TO THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR CLARIFICATION AND FURTHER DIRECTION.
- CONTRACTOR IS RESPONSIBLE TO PAY FOR, AND OBTAIN, ANY REQUIRED APPLICATIONS, PERMITTING, LICENSES, INSPECTIONS AND METERS ASSOCIATED WITH WORK.
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO ANY VIOLATIONS OR NON-CONFORMANCE WITH THE PLANS, SPECIFICATIONS, CONTRACT DOCUMENTS, JURISDICTIONAL CODES, AND REGULATORY AGENCIES.
- . THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL UTILITY LOCATIONS PRIOR TO ANY EXCAVATION. REFER TO ENGINEERING UTILITY PLANS FOR ALL PROPOSED UTILITY LOCATIONS AND DETAILS. NOTIFY OWNER'S REPRESENTATIVE IF EXISTING OR PROPOSED UTILITIES INTERFERE WITH THE ABILITY TO PERFORM WORK.
- 2. UNLESS IDENTIFIED ON THE PLANS FOR DEMOLITION OR REMOVAL, THE CONTRACTOR IS RESPONSIBLE FOR THE COST TO REPAIR UTILITIES, ADJACENT OR EXISTING LANDSCAPE, ADJACENT OR EXISTING PAVING, OR ANY PUBLIC AND PRIVATE PROPERTY THAT IS DAMAGED BY THE CONTRACTOR OR THEIR SUBCONTRACTOR'S OPERATIONS DURING INSTALLATION, ESTABLISHMENT OR DURING THE SPECIFIED MAINTENANCE PERIOD. ALL DAMAGES SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS AS DETERMINED BY THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR LOGGING ANY DAMAGES PRIOR TO START OF CONSTRUCTION AND DURING THE CONTRACT PERIOD.
- 8. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE OWNER'S REPRESENTATIVE PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY OF THEIR TRENCHES OR EXCAVATIONS THAT SETTLE
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT A TRAFFIC CONTROL PLAN TO THE APPROPRIATE JURISDICTIONAL AGENCIES AND THE OWNER'S REPRESENTATIVE IF THEIR WORK AND OPERATIONS AFFECT OR IMPACT THE PUBLIC RIGHTS-OF-WAY. OBTAIN APPROVAL PRIOR TO ANY WORK WHICH AFFECTS OR IMPACTS THE PUBLIC RIGHTS-OF-WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THIS REQUIREMENT DURING THE CONTRACT PERIOD.
- 5. SIGHT TRIANGLES AND SIGHT LINES SHALL REMAIN UNOBSTRUCTED BY EQUIPMENT, CONSTRUCTION MATERIALS, PLANT MATERIAL OR ANY OTHER VISUAL OBSTACLE DURING THE CONTRACT PERIOD AND AT MATURITY OF PLANTS PER LOCAL JURISDICTIONAL REQUIREMENTS. NO PLANT MATERIAL OTHER THAN GROUND COVER IS ALLOWED TO BE PLANTED ADJACENT TO FIRE HYDRANTS AS STIPULATED BY JURISDICTIONAL REQUIREMENTS.
- . COORDINATE SITE ACCESS, STAGING, STORAGE AND CLEANOUT AREAS WITH OWNER'S REPRESENTATIVE.
- 18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY SAFETY FENCING AND BARRIERS AROUND ALL IMPROVEMENTS SUCH AS WALLS, PLAY STRUCTURES, EXCAVATIONS, ETC. ASSOCIATED WITH THEIR WORK UNTIL SUCH FACILITIES ARE COMPLETELY INSTALLED PER THE PLANS, SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS.
- 9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THEIR MATERIAL STOCK PILES AND WORK FROM VANDALISM, EROSION OR UNINTENDED DISTURBANCE DURING THE CONSTRUCTION PERIOD AND UNTIL FINAL ACCEPTANCE IS ISSUED.
- 0. THE CONTRACTOR SHALL KNOW, UNDERSTAND AND ABIDE BY ANY STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ASSOCIATED WITH THE SITE. IF A STORM WATER POLLUTION PREVENTION PLAN IS NOT PROVIDED BY THE OWNER'S REPRESENTATIVE, REQUEST A COPY BEFORE PERFORMANCE OF ANY SITE WORK.
- I. MAINTAIN ANY STORM WATER MANAGEMENT FACILITIES THAT EXIST ON SITE FOR FULL FUNCTIONALITY. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ANY NEW STORM WATER MANAGEMENT FACILITIES THAT ARE IDENTIFIED IN THE SCOPE OF WORK TO FULL FUNCTIONALITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER FOR FAILURE TO MAINTAIN STORM WATER MANAGEMENT FACILITIES DURING THE CONTRACT PERIOD.
- 22. THE CONTRACTOR SHALL PREVENT SEDIMENT, DEBRIS AND ALL OTHER POLLUTANTS FROM EXITING THE SITE OR ENTERING THE STORM SEWER SYSTEM DURING ALL DEMOLITION OR CONSTRUCTION OPERATIONS THAT ARE PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS DURING THEIR CONTRACTED COURSE OF WORK.
- 23. THE CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT ANY IMPACTS TO ADJACENT WATERWAYS, WETLANDS, OR OTHER ENVIRONMENTALLY SENSITIVE AREAS RESULTING FROM WORK DONE AS PART OF THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE STANDARDS DURING THEIR CONTRACTED COURSE OF WORK.
- 24. THE CONTRACTOR AND/OR THEIR AUTHORIZED AGENTS SHALL ENSURE THAT ALL LOADS OF CONSTRUCTION MATERIAL IMPORTED TO OR EXPORTED FROM THE PROJECT SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF MATERIAL DURING TRANSPORT. TRANSPORTATION METHODS ON PUBLIC RIGHT-OF WAYS SHALL CONFORM TO JURISDICTIONAL REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY FINES OR PENALTIES ASSESSED TO THE OWNER RELATING TO THESE REQUIREMENTS.
- 25. THE CLEANING OF EQUIPMENT IS PROHIBITED AT THE JOB SITE UNLESS AUTHORIZED BY THE OWNER'S REPRESENTATIVE IN A DESIGNATED AREA. THE DISCHARGE OF WATER, WASTE CONCRETE, POLLUTANTS, OR OTHER MATERIALS SHALL ONLY OCCUR IN AREAS DESIGNED FOR SUCH USE AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- 26. THE CLEANING OF CONCRETE EQUIPMENT IS PROHIBITED AT THE JOB SITE EXCEPT IN DESIGNATED CONCRETE WASHOUT AREAS. THE DISCHARGE OF WATER CONTAINING WASTE CONCRETE IN THE STORM SEWER IS PROHIBITED.
- 7. OPEN SPACE SWALES: IF SWALES ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE CONVEYANCE OF WATER WITHIN THE SWALES DURING THE CONTRACT PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DIVERSION OR PUMPING OF WATER IF REQUIRED TO COMPLETE WORK. ANY SWALES DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE SWALE NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON. THE

CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE

- 28. DETENTION AND WATER QUALITY PONDS: IF DETENTION PONDS AND WATER QUALITY PONDS ARE EXISTING ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE PONDS, DRAINAGE STRUCTURES AND SPILLWAYS DURING CONSTRUCTION. ALL PONDS, DRAINAGE STRUCTURES AND SPILLWAYS SHALL BE MAINTAINED IN OPERABLE CONDITIONS AT ALL TIMES. ANY POND OR SPILLWAY AREAS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. IF THE POND NEEDS TO BE DISTURBED OR MODIFIED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO DISTURBANCE.
- 29. MAINTENANCE ACCESS BENCHES: IF MAINTENANCE BENCHES OR ACCESS ROADS EXIST ON SITE AND ARE NOT INTENDED TO BE MODIFIED AS PART OF THE PLANS, THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE BENCHES OR ACCESS ROADS DURING CONSTRUCTION. ANY BENCHES OR ACCESS ROADS DISTURBED BY THE CONTRACTOR SHALL BE REPAIRED/RESTORED TO THEIR ORIGINAL CONDITION. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING BENCHES AND ACCESS ROADS DURING THE CONSTRUCTION PERIOD. IF ACCESS NEEDS TO BE BLOCKED FOR ANY REASON, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INTERRUPTION OF ACCESS.
- 30. LOCAL, STATE AND FEDERAL JURISDICTIONAL REQUIREMENTS, RESTRICTIONS OR PROCEDURES SHALL SUPERSEDE THESE PLANS, NOTES AND SPECIFICATIONS WHEN MORE STRINGENT. NOTIFY THE OWNER'S REPRESENTATIVE IF CONFLICTS OCCUR.

LANDSCAPE NOTES

- 1. THE CONTRACTOR SHALL FOLLOW THE LANDSCAPE PLANS AND SPECIFICATIONS AS CLOSELY AS POSSIBLE. ANY SUBSTITUTION OR ALTERATION SHALL NOT BE ALLOWED WITHOUT APPROVAL OF THE OWNER'S REPRESENTATIVE. OVERALL PLANT QUANTITY AND QUALITY SHALL BE CONSISTENT WITH THE PLANS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLANT QUANTITIES. GRAPHIC QUANTITIES TAKES PRECEDENCE OVER WRITTEN QUANTITIES
- 3. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND TAG ALL PLANT MATERIAL PRIOR TO SHIPPING TO THE SITE. IN ALL CASES, THE OWNER'S REPRESENTATIVE MAY REJECT PLANT MATERIAL AT THE SITE IF MATERIAL IS DAMAGED, DISEASED, OR DECLINING IN HEALTH AT THE TIME OF ONSITE INSPECTIONS OR IF THE PLANT MATERIAL DOES NOT MEET THE MINIMUM SPECIFIED STANDARD IDENTIFIED ON THE PLANS AND IN THE SPECIFICATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL MATERIALS AND PRODUCTS PRIOR TO INSTALLATION.
- 4. THE OWNER'S REPRESENTATIVE MAY ELECT TO UPSIZE PLANT MATERIAL AT THEIR DISCRETION BASED ON SELECTION, AVAILABILITY, OR TO ENHANCE SPECIFIC AREAS OF THE PROJECT. THE CONTRACTOR SHALL VERIFY PLANT MATERIAL SIZES WITH OWNER'S REPRESENTATIVE PRIOR TO PURCHASING, SHIPPING OR STOCKING OF PLANT MATERIALS. SUBMIT CHANGE ORDER REQUEST TO OWNER'S REPRESENTATIVE FOR APPROVAL IF ADDITIONAL COST IS REQUESTED BY THE CONTRACTOR PRIOR TO INSTALLATION. RE-STOCKING CHARGES WILL NOT BE APPROVED IF THE CONTRACTOR FAILS TO SUBMIT A REQUEST FOR MATERIAL CHANGES.
- 5. THE CONTRACTOR SHALL WARRANTY ALL CONTRACTED WORK AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION HAS BEEN ISSUED BY THE OWNER'S REPRESENTATIVE FOR THE ENTIRE PROJECT UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS.
- 6. REFER TO IRRIGATION PLANS FOR LIMITS AND TYPES OF IRRIGATION DESIGNED FOR THE LANDSCAPE IN NO CASE SHALL IRRIGATION BE EMITTED WITHIN THE MINIMUM DISTANCE FROM BUILDING OR WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT. ALL IRRIGATION DISTRIBUTION LINES. HEADS AND EMITTERS SHALL BE KEPT OUTSIDE THE MINIMUM DISTANCE AWAY FROM ALL BUILDING AND WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT
- 7. LANDSCAPE MATERIAL LOCATIONS SHALL HAVE PRECEDENCE OVER IRRIGATION MAINLINE AND LATERAL LOCATIONS. COORDINATE INSTALLATION OF IRRIGATION EQUIPMENT SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL.
- 8. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE EXISTS IN ALL LANDSCAPE AREAS. SURFACE DRAINAGE ON LANDSCAPE AREAS SHALL NOT FLOW TOWARD STRUCTURES AND FOUNDATIONS. MAINTAIN SLOPE AWAY FROM FOUNDATIONS PER THE GEOTECHNICAL REPORT RECOMMENDATIONS. ALL LANDSCAPE AREAS BETWEEN WALKS AND CURBS SHALL DRAIN FREELY TO THE CURB UNLESS OTHERWISE IDENTIFIED ON THE GRADING PLAN. IN NO CASE SHALL THE GRADE, TURF THATCH, OR OTHER LANDSCAPE MATERIALS DAM WATER AGAINST WALKS. MINIMUM SLOPES ON LANDSCAPE AREAS SHALL BE 2%; MAXIMUM SLOPE SHALL BE 30% UNLESS SPECIFICALLY IDENTIFIED ON THE PLANS OR APPROVED BY THE OWNER'S REPRESENTATIVE.
- 9. PRIOR TO INSTALLATION OF PLANT MATERIALS, AREAS THAT HAVE BEEN COMPACTED OR DISTURBED BY CONSTRUCTION ACTIVITY SHALL BE THOROUGHLY LOOSENED TO A DEPTH OF 8" - 12" AND AMENDED PER SPECIFICATIONS.
- 10. ALL LANDSCAPED AREAS ARE TO RECEIVE ORGANIC SOIL PREPARATION AS SPECIFIED IN PLANTING SCHEDULE.
- 11. TREES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DRAINAGE AREAS, OR UTILITY EASEMENTS. CONTACT OWNER'S REPRESENTATIVE FOR RELOCATION OF PLANTS IN QUESTIONABLE AREAS PRIOR TO INSTALLATION.
- 12. THE CENTER OF EVERGREEN TREES SHALL NOT BE PLACED CLOSER THAN 8' AND THE CENTER OF ORNAMENTAL TREES CLOSER THAN 6' FROM A SIDEWALK, STREET OR DRIVE LANE. EVERGREEN TREES SHALL NOT BE LOCATED ANY CLOSER THAN 15' FROM IRRIGATION ROTOR HEADS. NOTIFY OWNER'S REPRESENTATIVE IF TREE LOCATIONS CONFLICT WITH THESE STANDARDS FOR FURTHER DIRECTION.
- 13. ALL EVERGREEN TREES SHALL BE FULLY BRANCHED TO THE GROUND AND SHALL NOT EXHIBIT SIGNS OF ACCELERATED GROWTH AS DETERMINED BY THE OWNER'S REPRESENTATIVE.
- 14. ALL TREES ARE TO BE STAKED AND GUYED PER DETAILS FOR A PERIOD OF 3 YEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING STAKES AT THE END OF 3 YEARS FROM ACCEPTANCE OF LANDSCAPE INSTALLATION BY THE OWNER'S REPRESENTATIVE. OBTAIN APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO REMOVAL.
- 15. ALL TREES INSTALLED ABOVE RETAINING WALLS UTILIZING GEO-GRID MUST BE HAND DUG TO PROTECT GEO-GRID. IF GEO-GRID MUST BE CUT TO INSTALL TREES, APPROVAL MUST BE GIVEN BY OWNER'S REPRESENTATIVE PRIOR TO DOING WORK.
- 16. ALL TREES IN SEED OR TURF AREAS SHALL RECEIVE MULCH RINGS. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE FOR ANY TREES THAT WILL NOT BE MULCHED FOR EXCESSIVE MOISTURE REASONS.
- 17. ALL SHRUB BEDS ARE TO BE MULCHED WITH MIN. 3" DEPTH, SHREDDED BARK LANDSCAPE MULCH OVER SPECIFIED GEOTEXTILE WEED CONTROL FABRIC. ALL GROUND COVER AND PERENNIAL FLOWER BEDS SHALL BE MULCHED WITH 3" DEPTH SHREDDED BARK LANDSCAPE MULCH. NO WEED CONTROL FABRIC IS REQUIRED IN GROUNDCOVER OR PERENNIAL AREAS.
- AREAS BY THE FULL WIDTH OF THE SEEDER. 19. EXISTING TURF AREAS THAT ARE DISTURBED DURING CONSTRUCTION, ESTABLISHMENT AND THE MAINTENANCE PERIOD SHALL BE RESTORED WITH NEW SOD TO MATCH EXISTING TURF SPECIES DISTURBED NATIVE AREAS WHICH ARE TO REMAIN SHALL BE OVER SEEDED AND RESTORED WITH
- SPECIFIED SEED MIX. 20. CONTRACTOR SHALL OVER SEED ALL MAINTENANCE OR SERVICE ACCESS BENCHES AND ROADS
- WITH SPECIFIED SEED MIX UNLESS OTHERWISE NOTED ON THE PLANS. 21. ALL SEEDED SLOPES EXCEEDING 30% IN GRADE (3:1) SHALL RECEIVE EROSION CONTROL BLANKETS.
- ADDITIONAL COST IF A CHANGE ORDER IS NECESSARY. 22. WHEN COMPLETE, ALL GRADES SHALL BE WITHIN +/- 1/8" OF FINISHED GRADES AS SHOWN ON THE

PLANS.

AR

18. AT SEED AREA BOUNDARIES ADJACENT TO EXISTING NATIVE AREAS, OVERLAP ABUTTING NATIVE

PRIOR TO INSTALLATION, NOTIFY OWNER'S REPRESENTATIVE FOR APPROVAL OF LOCATION AND ANY

LAYOUT NOTES

1. WRITTEN DIMENSIONS WILL TAKE PRECEDENCE OVER SCALED DIMENSIONS 2. SHOULD SITE CONDITIONS BE DIFFERENT THAN WHAT IS INDICATED ON THE DRAWINGS CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY FOR CLARIFICATION.

- 3. CURVED WALKS AND CURB EDGES ARE INTENDED TO BE CONSTRUCTED WITH SMOOTH FLOWING
- CURVES. ANYTHING OTHER THAN SMOOTH FLOWING CURVES WILL BE REJECTED 4. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY TO
- PERFORM THE PROPOSED WORK. THE CONTRACTOR SHALL PROVIDE A STAKED LAYOUT OF ALL SITE IMPROVEMENTS FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AND MAKE MODIFICATIONS AS REQUIRED AT NO ADDITIONAL
- COST TO THE OWNER 6. THE CONTRACTOR SHALL INSTALL SLEEVING FOR IRRIGATION IMPROVEMENTS PRIOR TO INSTALLING CONCRETE FLATWORK. REFER TO IRRIGATION PLANS.
- 7. LAYOUT WALKS, SCORE JOINTS AND PAVING PATTERNS AS CLOSELY AS POSSIBLE TO PLANS, DETAILS, AND SPECIFICATIONS. DO NOT DEVIATE FROM PLANS UNLESS SPECIFIC APPROVAL IS OBTAINED FROM THE OWNER'S REPRESENTATIVE.
- 8. ALL WORK SHALL BE CONFINED TO THE AREA WITHIN THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS. ANY AREAS OR IMPROVEMENTS DISTURBED OUTSIDE THESE LIMITS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THE CONTRACTOR REQUIRES A MODIFICATION TO THE CONSTRUCTION LIMITS, WRITTEN PERMISSION MUST BE OBTAINED FROM THE LANDSCAPE ARCHITECT PRIOR TO ANY DISTURBANCE OUTSIDE OF THE LIMITS OF WORK. SEE TECHNICAL SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR SUPERVISING ALL SAFETY SURFACING AND PAVEMENT DURING THE CURING PROCESS.

MAINTENANCE NOTES

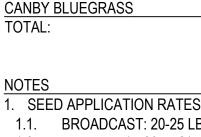
- TREES, SHRUBS AND GROUND COVERS
- MAINTAIN TREES, SHRUBS, GROUND COVERS AND PLANTS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, TIGHTENING AND REPAIRING STAKES AND GUYS WIRE SUPPORTS, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY AS REQUIRED TO KEEP TREES AND SHRUBS. FREE OF INSECTS AND DISEASE.
- 2. WATERING: MAINTAIN LARGE ENOUGH WATER BASINS AROUND PLANTS SO THAT ENOUGH WATER CAN BE APPLIED TO ESTABLISH MOISTURE THROUGHOUT ENTIRE ROOT ZONE. UTILIZE MULCHES TO REDUCE EVAPORATION AND WATERING FREQUENCY. ALL TREES SHALL BE DRIP IRRIGATED.
- 3. PRUNE AS REQUIRED AT TIME OF PLANTING AND AS NEEDED TO CORRECT DAMAGE
- 4. STAKES AND GUY WIRES: INSPECT REGULARLY TO PREVENT GIRDLING OF TRUNKS OR BRANCHES AND TO PREVENT RUBBING WHICH MIGHT CAUSE BARK WOUNDS. REMOVE AND REPLACE DAMAGED STAKES AND GUYS AS DIRECTED BY THE OWNER.
- 5. WEED CONTROL: MAINTAIN TREE AND SHRUB BASINS FREE OF WEEDS AND GRASSES ON A WEEKLY
- BASIS. FREQUENT SOIL CULTIVATION THAT MIGHT DESTROY SHALLOW ROOTS IS NOT PERMITTED. 6. INSECTS AND DISEASE CONTROL: CONTROL INSECTS AND DISEASE AS NECESSARY TO PREVENT DAMAGE TO THE HEALTH OR APPEARANCE OF PLANTS. USE ONLY APPROVED MATERIALS AND METHODS. DEAD, DISEASED, AND/OR BEETLE INFESTED TREES MUST BE REMOVED UPON IMMEDIATE
- RECEIPT OF WRITTEN OR VERBAL NOTICE TO THE PROPERTY OWNER. 7. DEAD PLANT MATERIALS SHALL BE REMOVED WITHIN (1) MONTH WITH PLANTING MATERIALS THAT MEET THE ORIGINAL INTENT OF THE APPROVED LANDSCAPE DESIGN.
- 8. NATURAL LANDSCAPE MATERIALS SUCH AS ROCK, STONE, BARK CHIPS AND SHAVINGS WHICH NO LONGER COVER THE AREA IN WHICH THEY WERE ORIGINALLY DEPOSITED SHALL BE REPLENISHED SO THAT THEY AGAIN ACHIEVE FULL COVERAGE TO A MINIMUM DEPTH AS SPECIFIED.

WEED CONTROL

- IN AREAS THAT HAVE BEEN REGRADED AND/OR HAVE EXISTING WEED GROWTH, WEED CONTROL MEASURES APPROPRIATE TO THE AMOUNT OF GROWTH AND/OR SPECIES SHALL BE PROVIDED.
- 2. THROUGHOUT THE GROWING SEASON WEED CONTROL OF NATIVE AREAS SHALL BE PREFORMED USING A SPOT TREATMENT METHOD.
- 3. HERBICIDE SHALL BE APPLIED BY A LICENSED APPLICATOR OR UNDER THE DIRECT SUPERVISION OF A LICENSED APPLICATOR.

NATIVE SEED AREAS

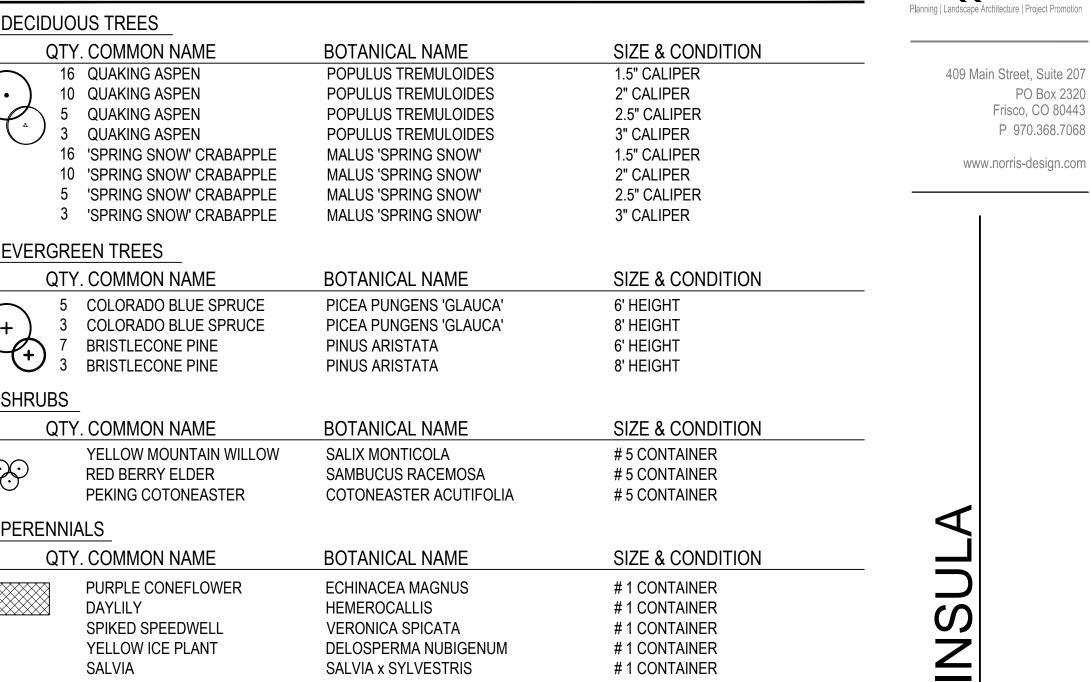
1. REFERENCE WEED CONTROL NOTES ABOVE. 2. MOW A MINIMUM OF ONCE YEARLY UPON ESTABLISHMENT OF GRASS

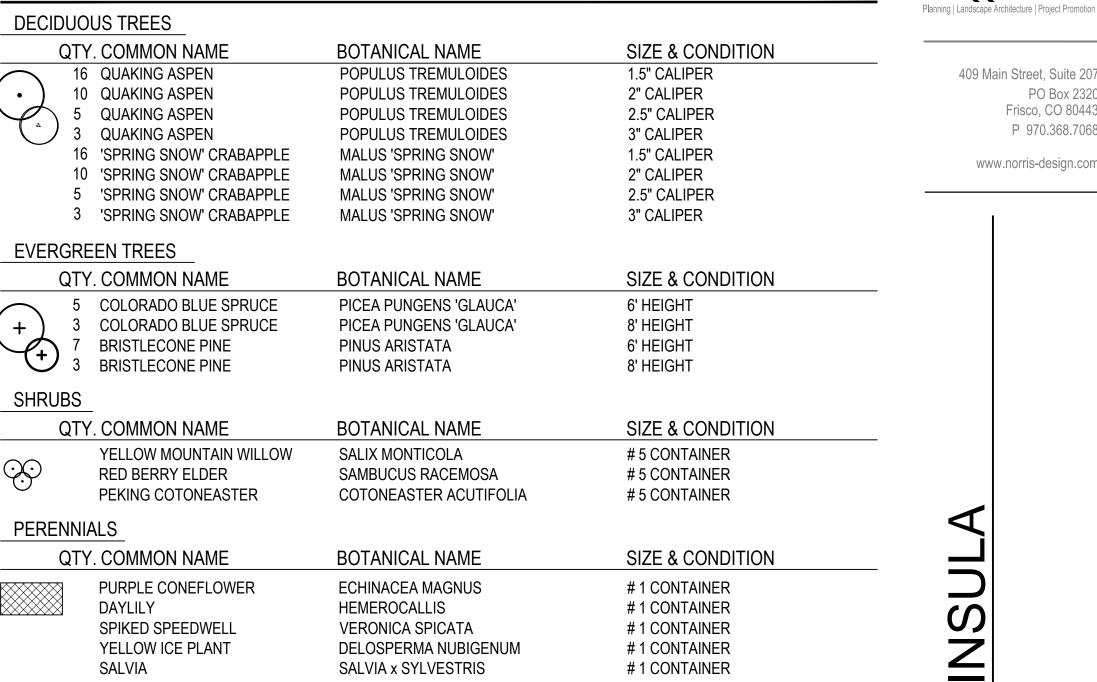


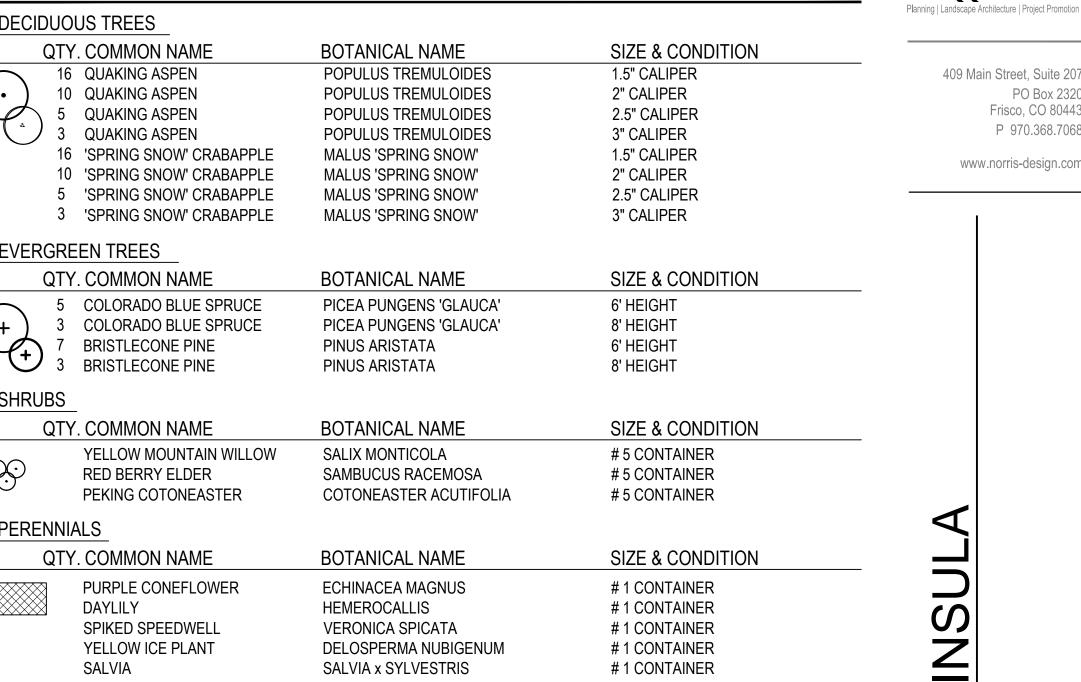
(3:1 OR STEEPER)

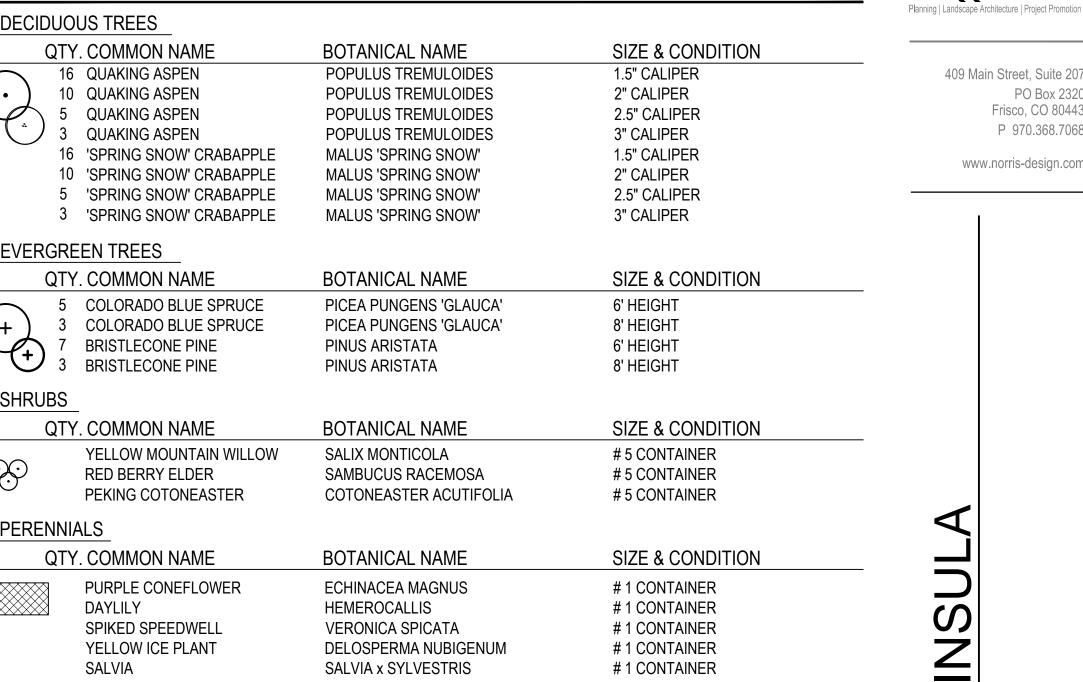
SOD

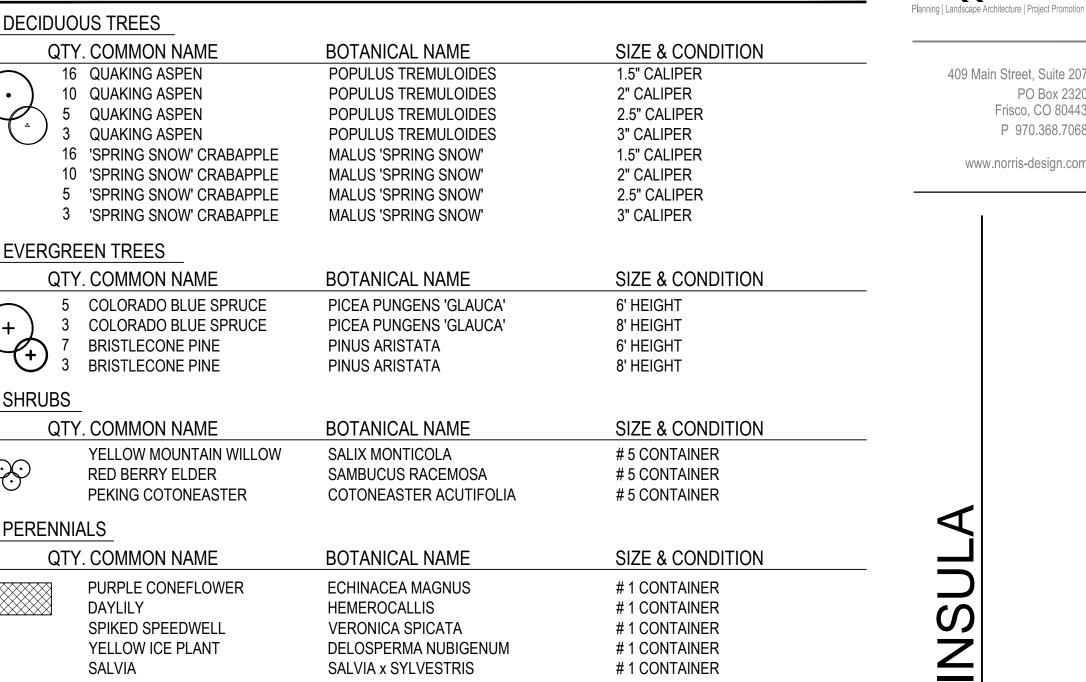
COMMON NAME





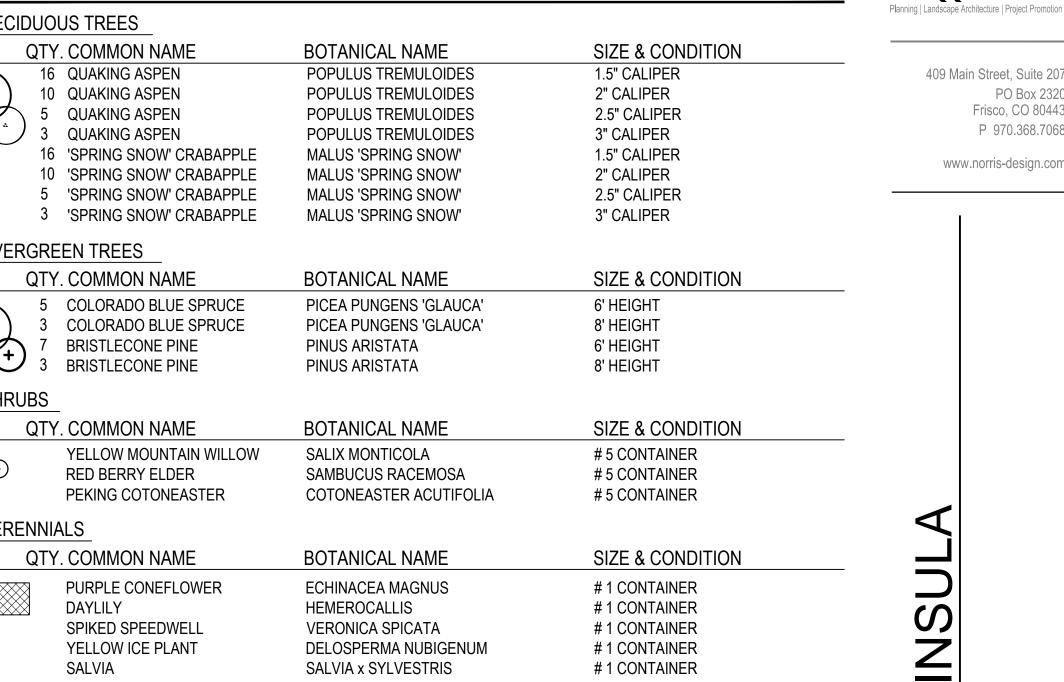






PLANT SCHEDULE

•



\odot

HIGH COU

COMMON NAM

SLENDER WHE

BLUEBUNCH W

SANDBERG BL

INDIAN RICEGF

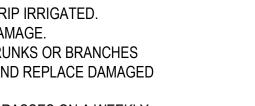
IDAHO FESCUE

WESTERN WHI

BLUE WILDRYE

ROCKY MOUNT

TUFTED HAIRG



PROJECT INFORMATION

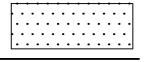
UNTRY NAT	VE SEED MIXTURE	$\begin{bmatrix} \mathbf{v} & \mathbf{v} & \mathbf{v} \\ \mathbf{v} & \mathbf{v} & \mathbf{v} \\ \mathbf{v} & \mathbf{v} & \mathbf{v} \\ \mathbf{v} & \mathbf{v} & \mathbf{v} \end{bmatrix}$
ME	BOTANICAL NAME	% MIX
EATGRASS	ELYMUS TRACHYCAULUS	15 %
WHEATGRASS	PSEUDOROEGNERIA SPICATA	15 %
LUEGRASS	POA SECUNDA	10 %
RASS	ORYZOPSIS HYMENOIDES	10 %
IE	FESTUCA IDAHOENSIS	10 %
IEATGRASS	PASCOPYRUM SMITHII	10 %
Έ	ELYMUS GLAUCUS	10 %
ITAIN FESCUE	FESTUCA SAXIMONTANA	10 %
GRASS	DESCHAMPSIA CESPITOSA	5 %
GRASS	POA SECUNDA 'CANBAR'	5 %
		100%

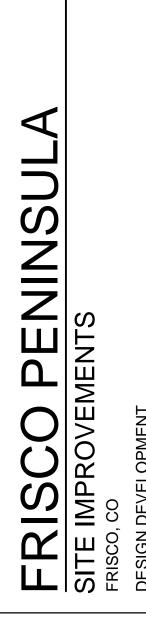
1.1. BROADCAST: 20-25 LBS/ACRE

1.2. DRILLED: 15-20 LBS/ARCE

2. APPLY EROSION CONTROL NETTING TO ANY AREA WHICH IS VULNERABLE TO SOIL EROSION SUCH AS SWALES OR STEEP SLOPES

3. UTILIZE HYDROMULCH AND TACKIFIER OF 2,000 POUNDS PER ACRE WITH 3% TACKIFIER. 4. UNLESS NOTED OTHERWISE IN TECHNICAL SPECIFICATIONS, AMEND ALL TOPSOIL IN RESEED AREAS TO 2" DEPTH WITH COMPOST.





)))))

NORRIS DESIGN

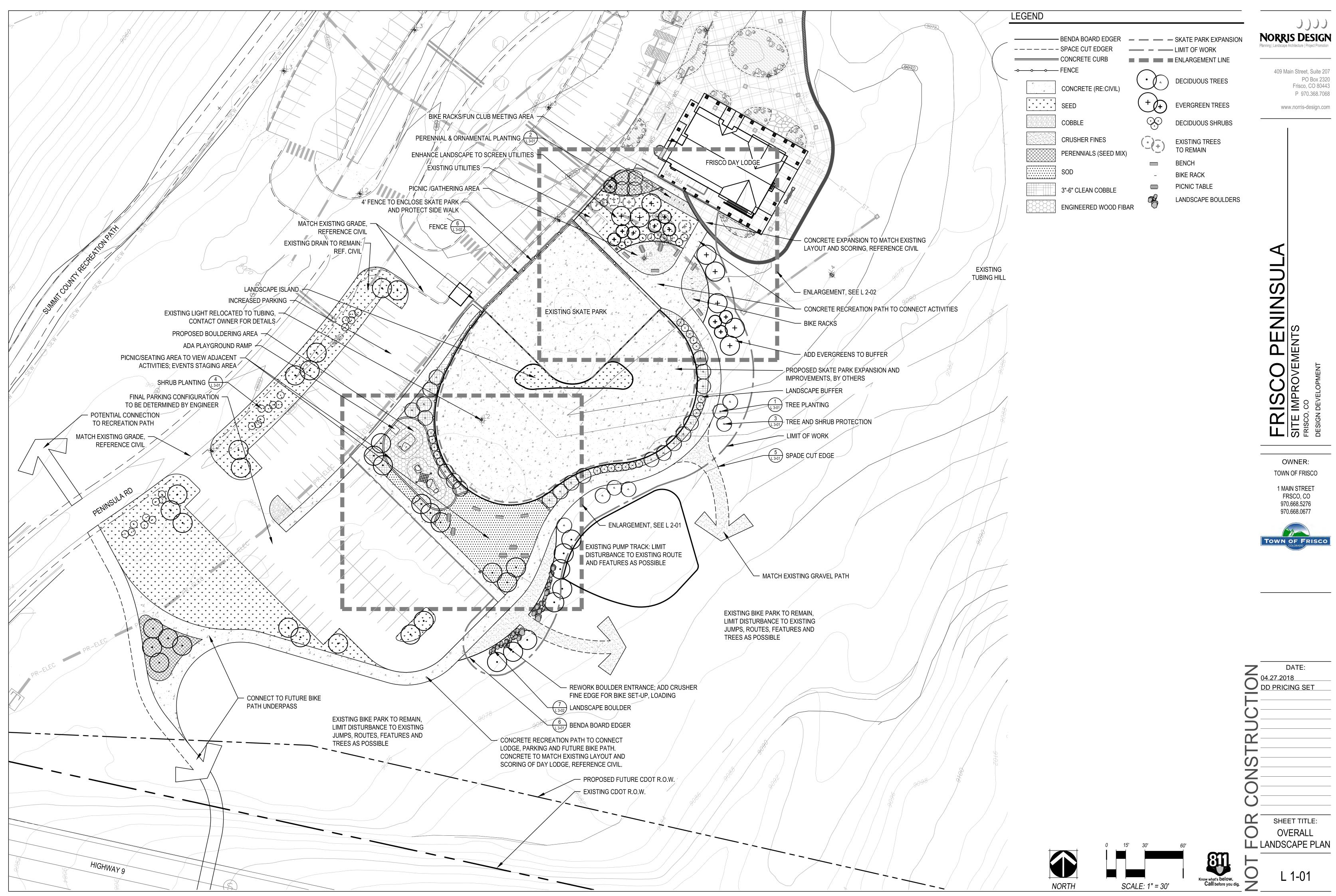
OWNER: TOWN OF FRISCO

1 MAIN STREET FRSCO, CO 970.668.5276 970.668.0677



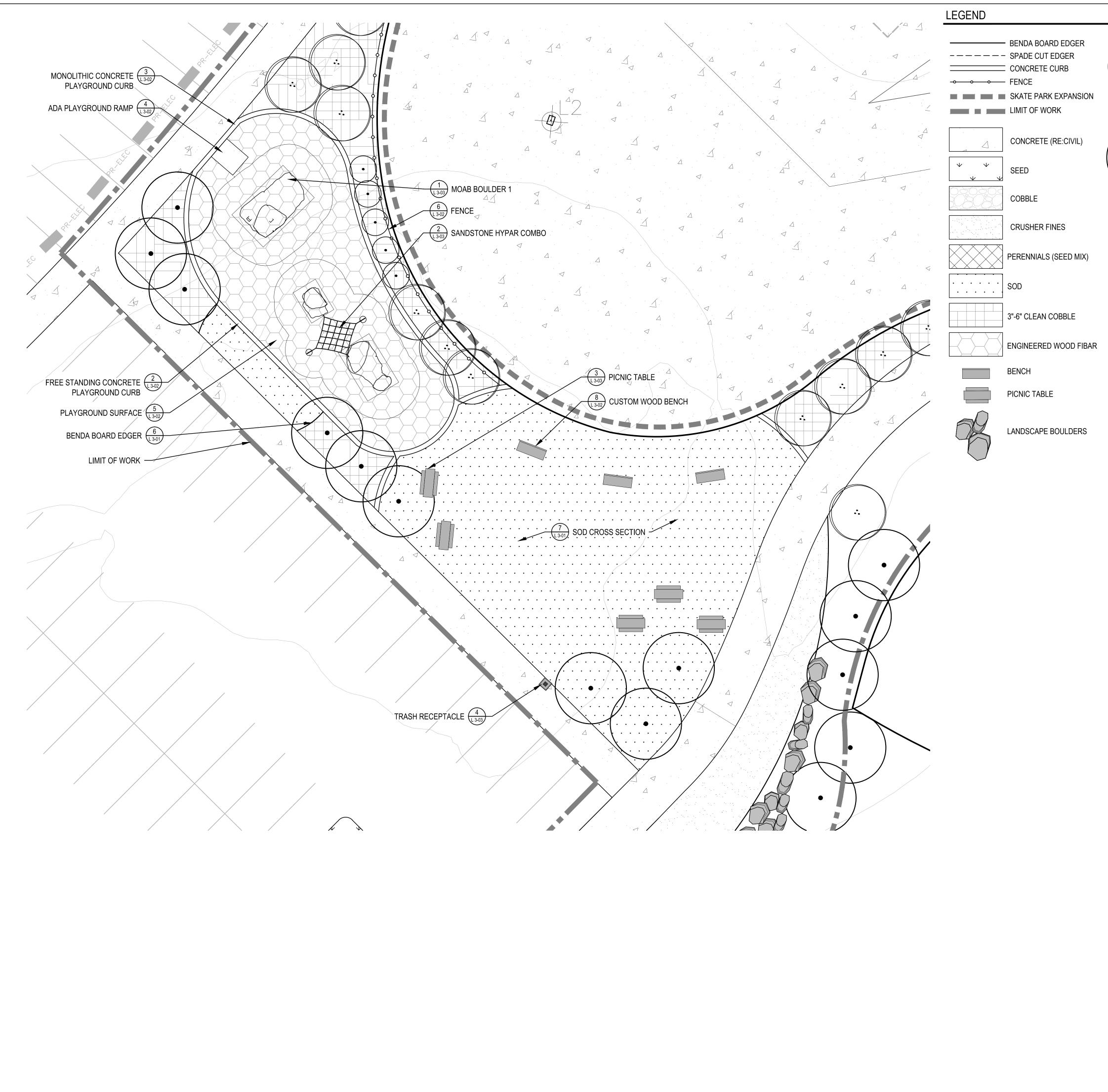
BLACK BEAUTY FESCUE (OR APPROVED EQUAL) SUPPLIER: GRAFF'S TURF FORT MORGAN, CO https://graffsturf.com/turfgrass/black-beauty-fescue/





LM, AR, CHECKED BY: DRAWN BY:

ЫN



MT AR, LM, EN

CHECKED BY: DRAWN BY:



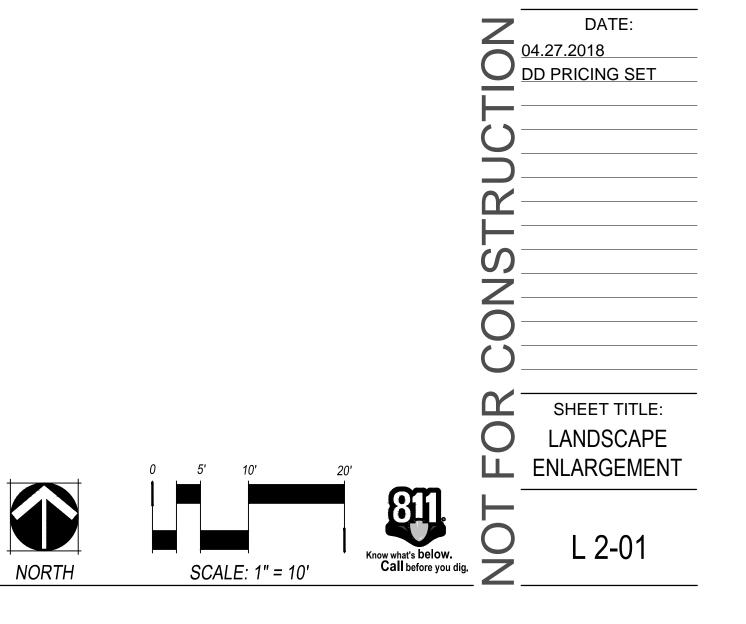


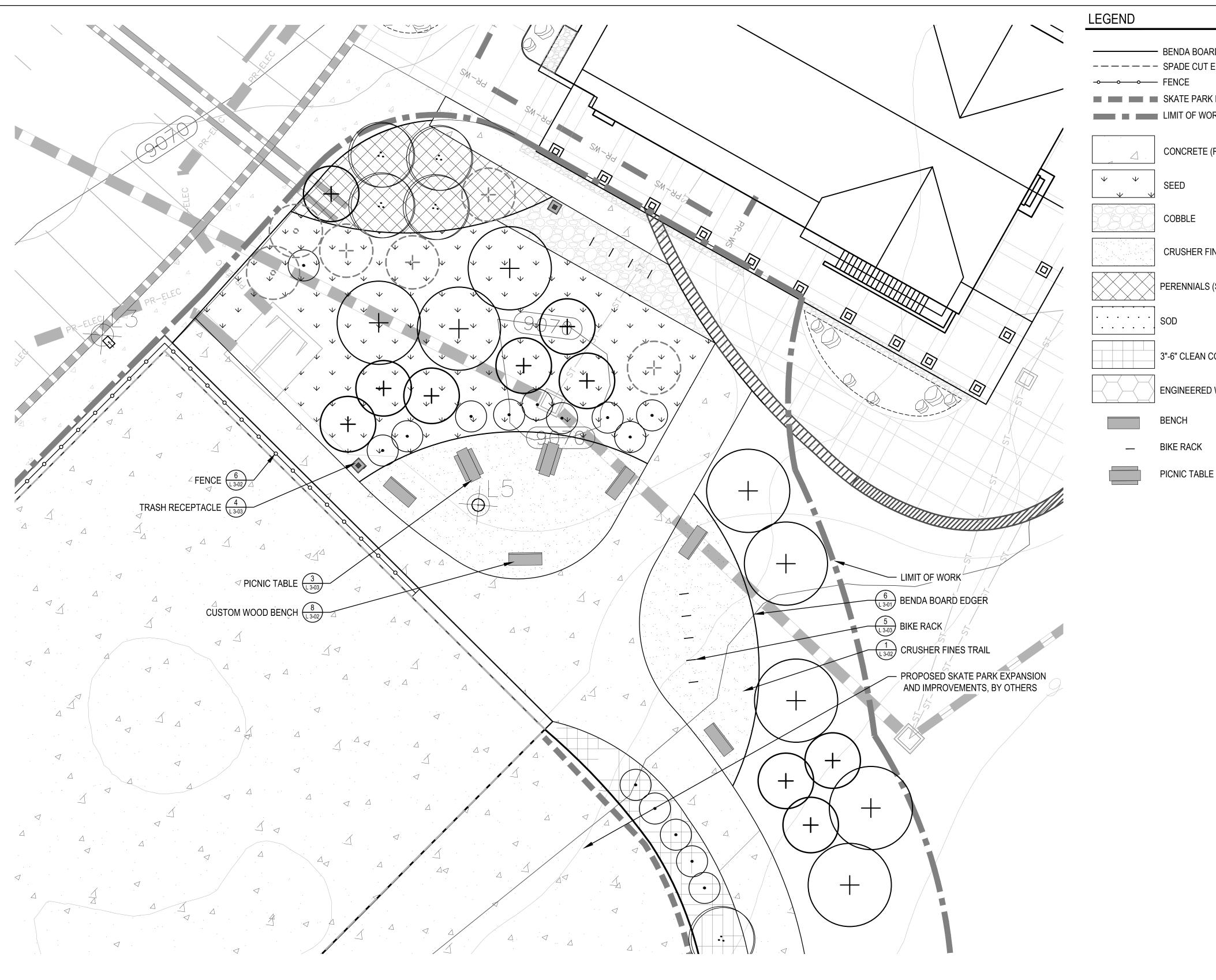
409 Main Street, Suite 207 PO Box 2320 Frisco, CO 80443 P 970.368.7068

www.norris-design.com

۲ DECIDUOUS TREES +EVERGREEN TREES DECIDUOUS SHRUBS

> NINS Ш Π OWNER: TOWN OF FRISCO 1 MAIN STREET FRSCO, CO 970.668.5276 970.668.0677





- 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**



409 Main Street, Suite 207 PO Box 2320 Frisco, CO 80443 P 970.368.7068

www.norris-design.com

۲ DECIDUOUS TREES +EVERGREEN TREES +

DECIDUOUS SHRUBS

EXISTING TREES TO REMAIN

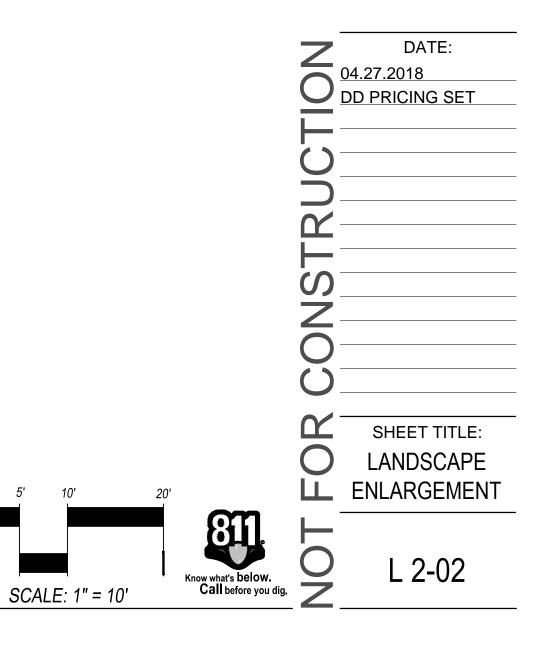
NORTH

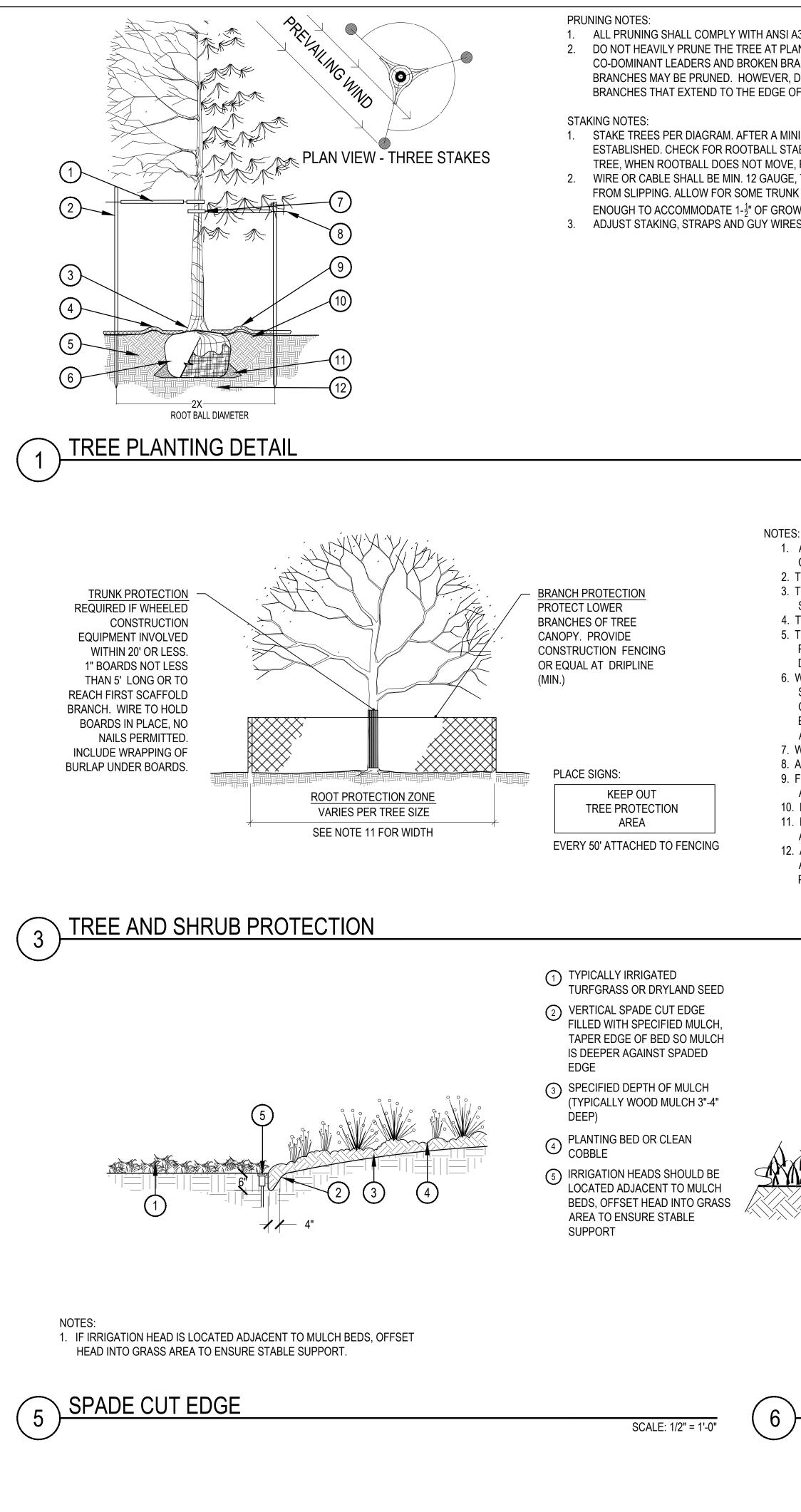


OWNER: TOWN OF FRISCO

1 MAIN STREET FRSCO, CO 970.668.5276 970.668.0677

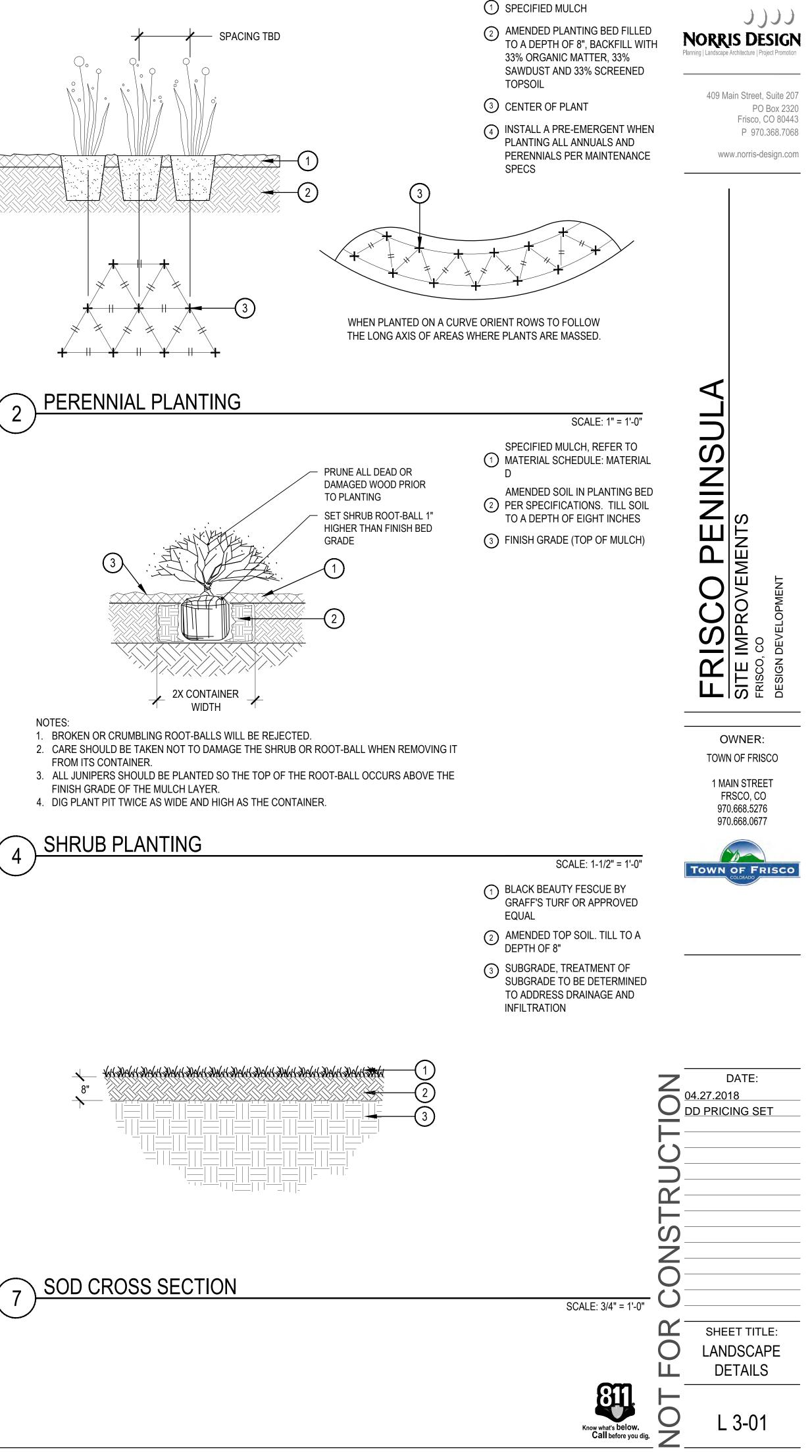






		(7) GROMMETED NYLON STRAPS	
A300 STANDARDS. LANTING. PRUNE ONLY CROSSOVER LIMBS,	EACH WIRE. EXPOSED WIRE SHALL BE MAX. 2" EACH SIDE	4-6" HIGH WATER SAUCER IN NON-TURF AREAS	
RANCHES. SOME INTERIOR TWIGS AND LATERAL , DO NOT REMOVE THE TERMINAL BUDS OF OF THE CROWN.	INSTALL STAKING PER SPECIFICATIONS	BACKFILL WITH PLANT MIX. PLANT MIX SHALL CONSIST OF EQUAL	$\bigcirc \circ$
INIMUM OF 3 THREE YEARS CONFIRM TREE IS	PLANT TREE SO THAT FIRST ORDER MAJOR ROOT IS 1"-2" ABOVE FINAL GRADE	PARTS TOPSOIL, COMPOST, AND EXCAVATED SOIL. WATER THOROUGHLY WHEN	
TABILITY. APPLY HAND PRESSURE TO TRUCK OF	(4) 3" DEEP MULCH RING PLACED A	BACKFILLING	
E, REMOVE STAKING. E, TIGHTEN WIRE OR CABLE ONLY ENOUGH TO KEEP	MINIMUM OF 4 FT. IN DIAMETER ON TOP OF WEED FABRIC. DO	PLACE SOIL AROUND ROOT BALL FIRMLY, DO NOT COMPACT OR	
NK MOVEMENT. NYLON STRAPS SHALL BE LONG OWTH AND BUFFER ALL BRANCHES FROM WIRE.	NOT PLACE MULCH IN CONTACT WITH TREE TRUNK (FINISHED	TAMP. SETTLE SOIL WITH WATER TO FILL ALL AIR POCKETS	
RES ANNUALLY.	GRADE REFERENCES TOP OF MULCH)	1 PLACE ROOT BALL ON UNDISTURBED SOIL TO PREVENT	
	5 1:1 SLOPE ON SIDES OF PLANTING HOLE	SETTLEMENT	
	6 REMOVE ALL TWINE, ROPE, BURLAP AND WIRE FROM THE TOP 2/3 OF ROOTBALL		

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



- 1. ALL TREES AND SHRUBS TO BE PROTECTED AND PRESERVED SHALL BE PER DETAIL. GROUPING OF MORE THAN ONE TREE MAY OCCUR.
- 2. TREES AND SHRUBS TO BE PROTECTED AND PRESERVED SHALL BE IDENTIFIED ON THE TRUNK WITH SURVEY TAPE. 3. 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.
- 4. TREE AND SHRUB ROOTS SHALL NOT BE CUT UNLESS CUTTING IS UNAVOIDABLE.

(3)

(4)

(2)

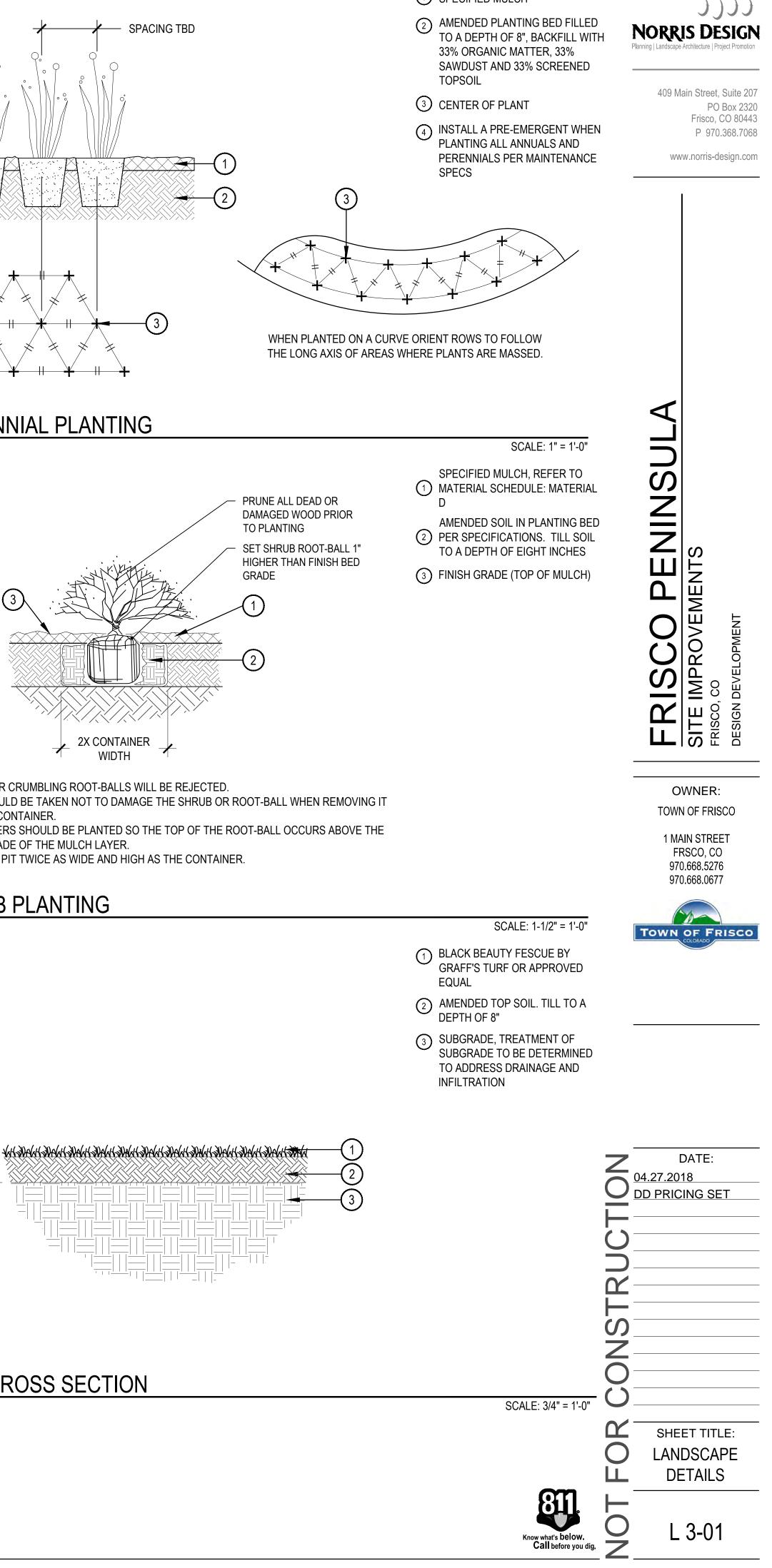
- 5. TRENCHES SHALL BE HAND DUG WITHIN THE DRIP LINE IN AREAS WHERE ROOTS TWO INCHES IN DIAMETER AND GREATER ARE PRESENT, OR WHEN IN CLOSE PROXIMITY TO LOW BRANCHING TREES. WHENEVER POSSIBLE, ROOTS TWO INCHES OR GREATER IN DIAMETER SHALL BE TUNNELED OR BORED UNDER AND SHALL BE COVERED TO PREVENT DEHYDRATION.
- 6. 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.
- 7. WATERING OF PROTECTED TREES IN WHICH ROOTS WERE CUT SHALL BE PROVIDED BY THE CONTRACTOR.
- 8. AUGER TUNNELING RATHER THAN TRENCHING SHOULD BE USED FOR UTILITY PLACEMENT WITHIN DRIP LINE. 9. FENCING MATERIAL SHALL ENCIRCLE ANY TREE OR SHRUB WHOSE OUTER DRIP LINE EDGE IS WITHIN 20 FEET OF ANY CONSTRUCTION ACTIVITIES.
- 10. FENCING MATERIAL SHALL BE BRIGHT, CONTRASTING COLOR, DURABLE, AND A MINIMUM OF FOUR FEET IN HEIGHT.
- 11. 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.
- 12. 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.

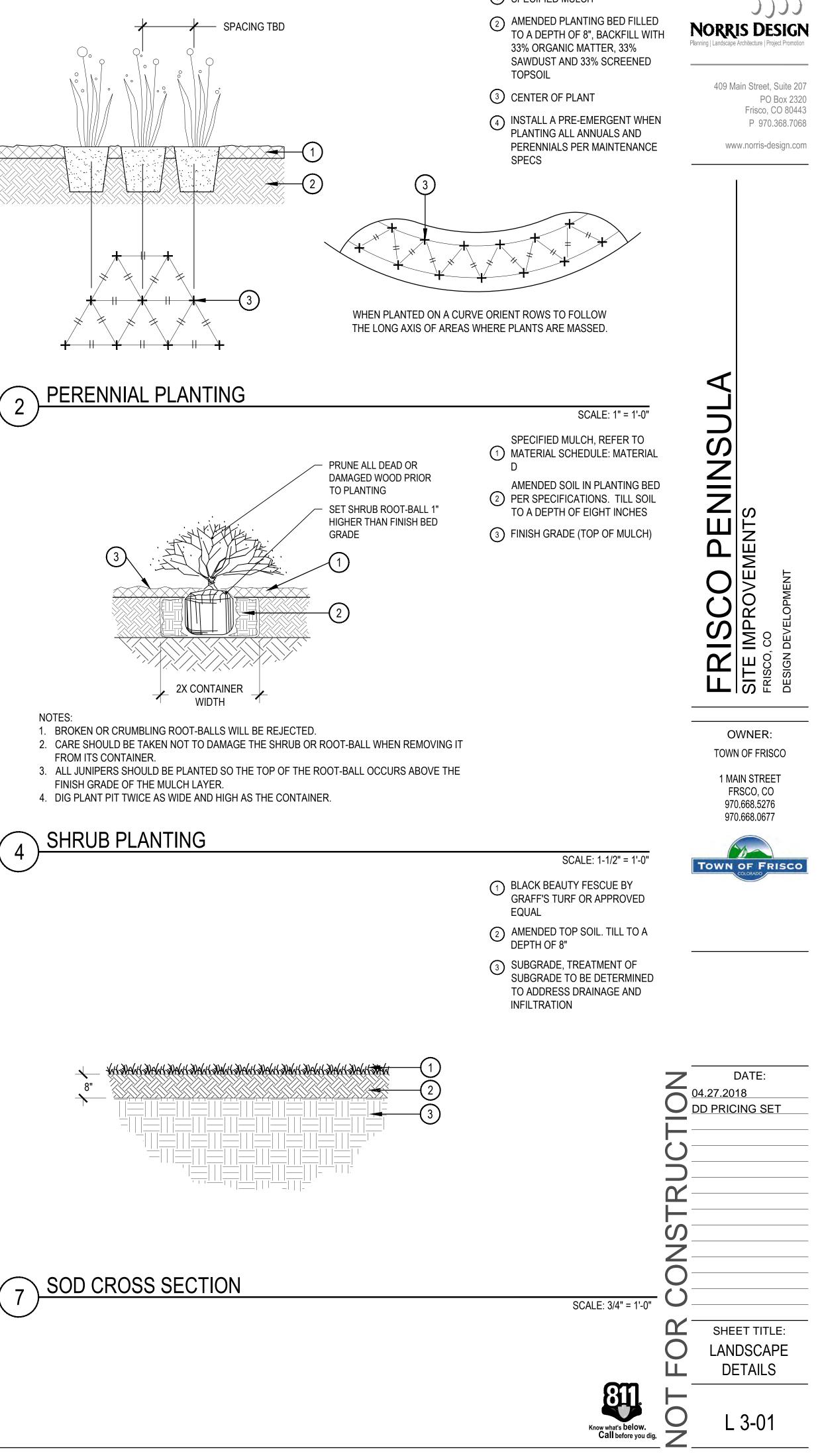
SCALE: 1/8" = 1'-0"

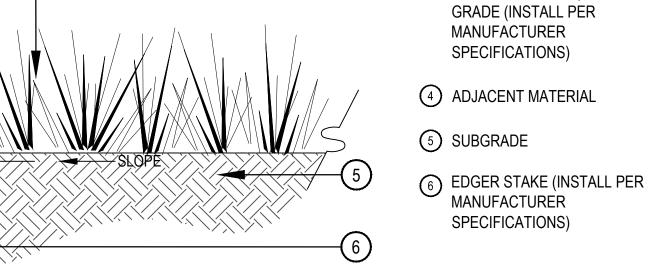
1 FINISH GRADE

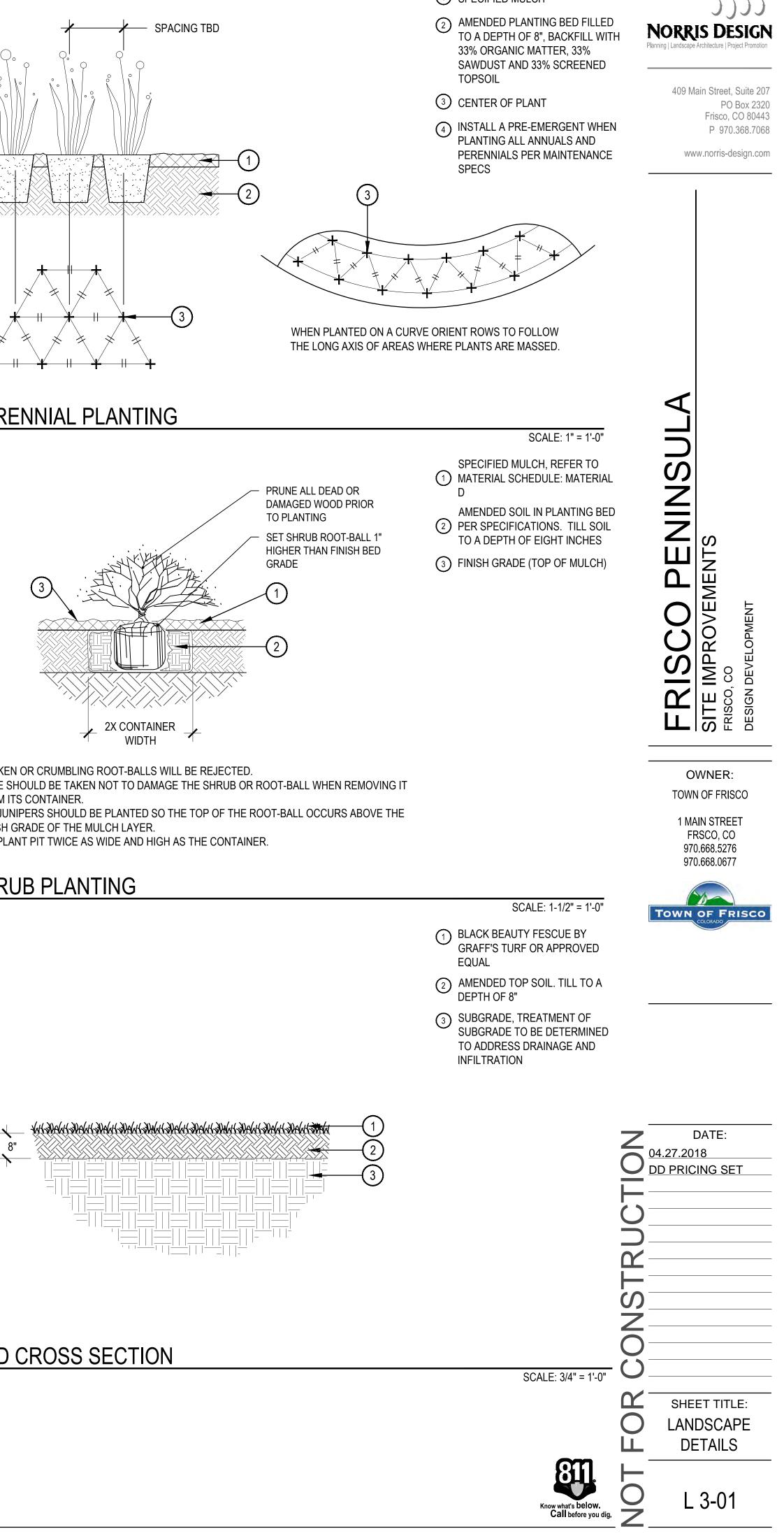
- (2) IRRIGATED SOD
- (3) 1" X 4" BENDA BOARD EDGER BY EPIC PLASTICS IN TEAK (OR APPROVED EQUAL), FLUSH WITH GRADE (INSTALL PER MANUFACTURER SPECIFICATIONS)
- 4 ADJACENT MATERIAL
- MANUFACTURER SPECIFICATIONS)

N.T.S.

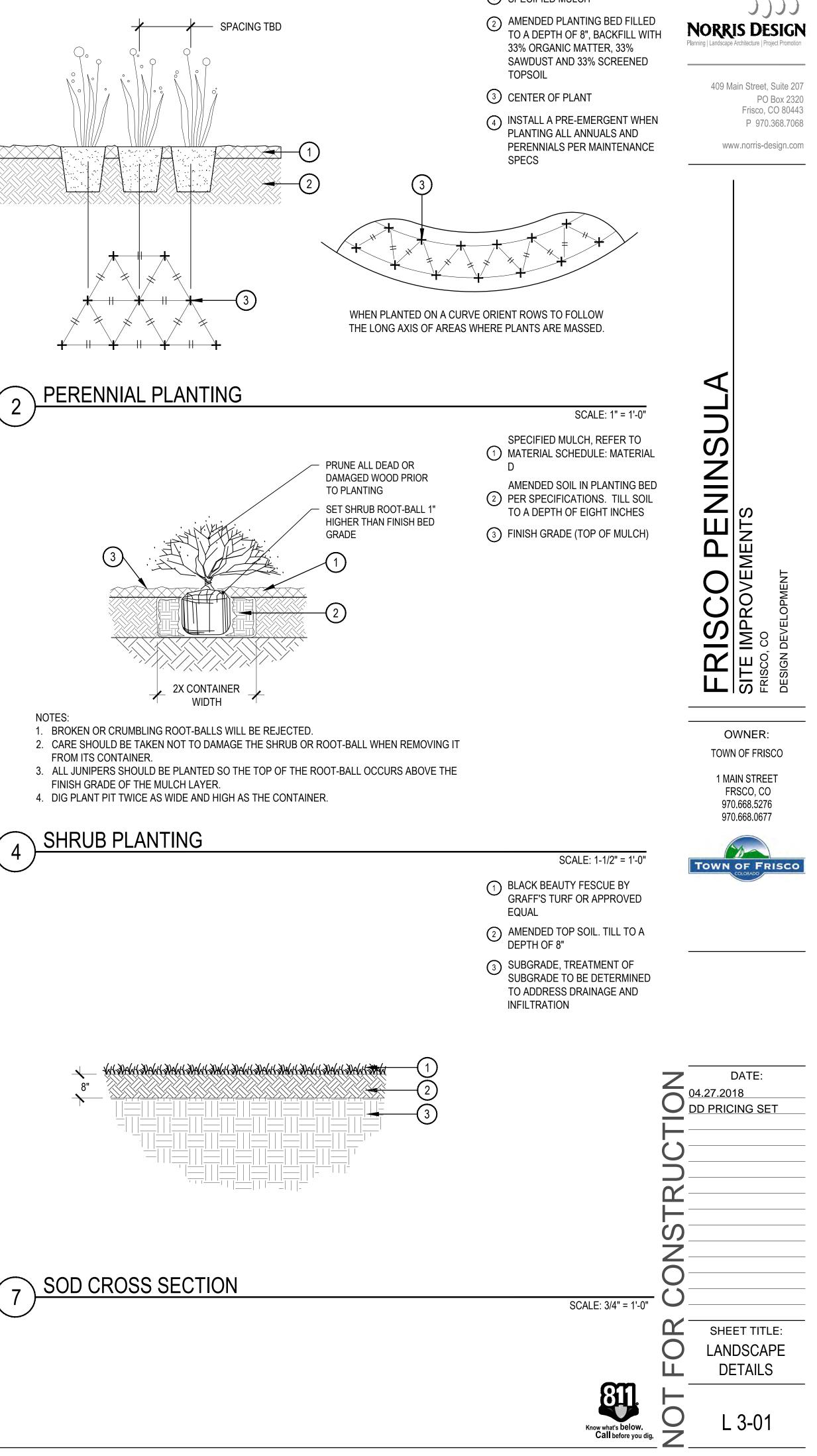


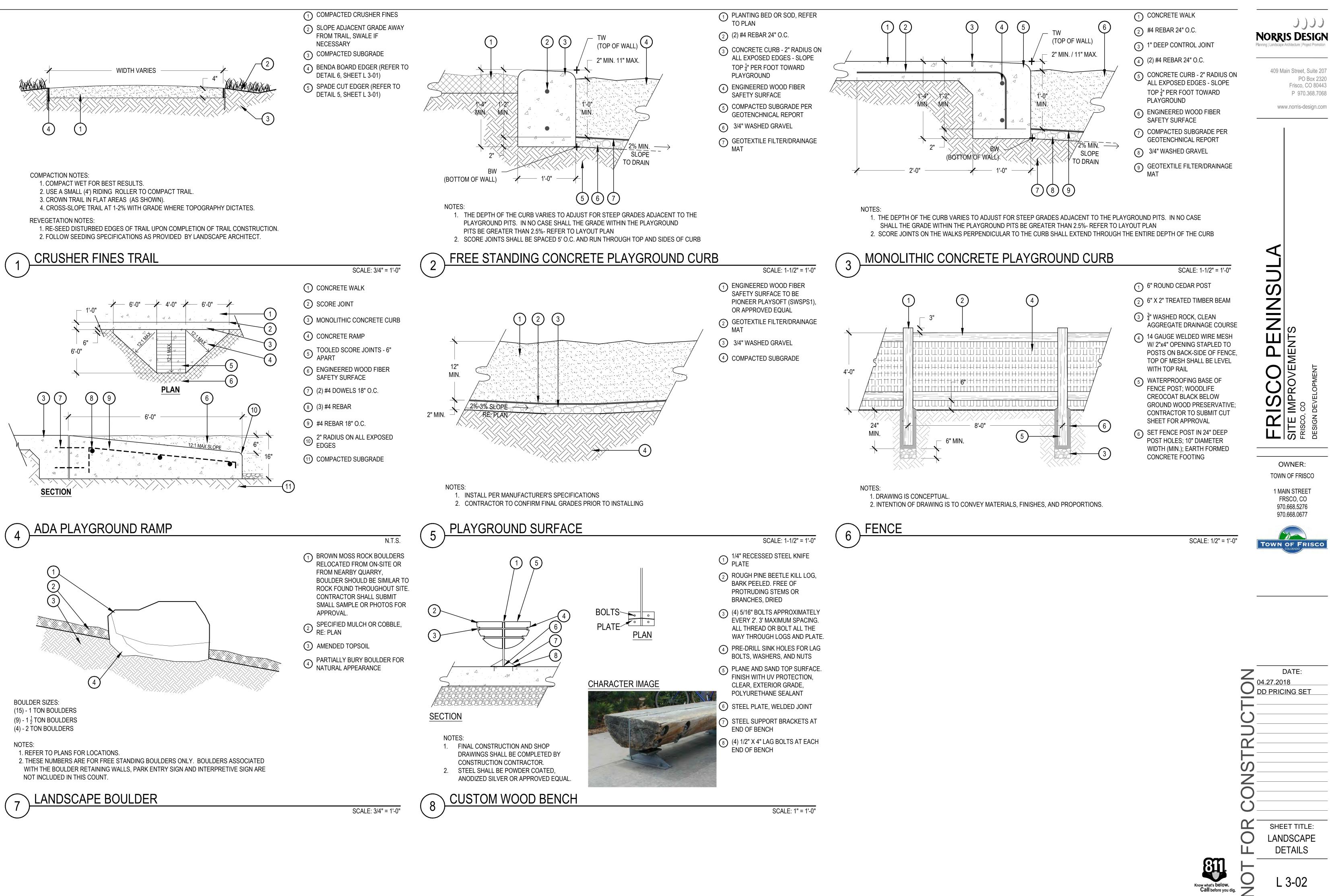


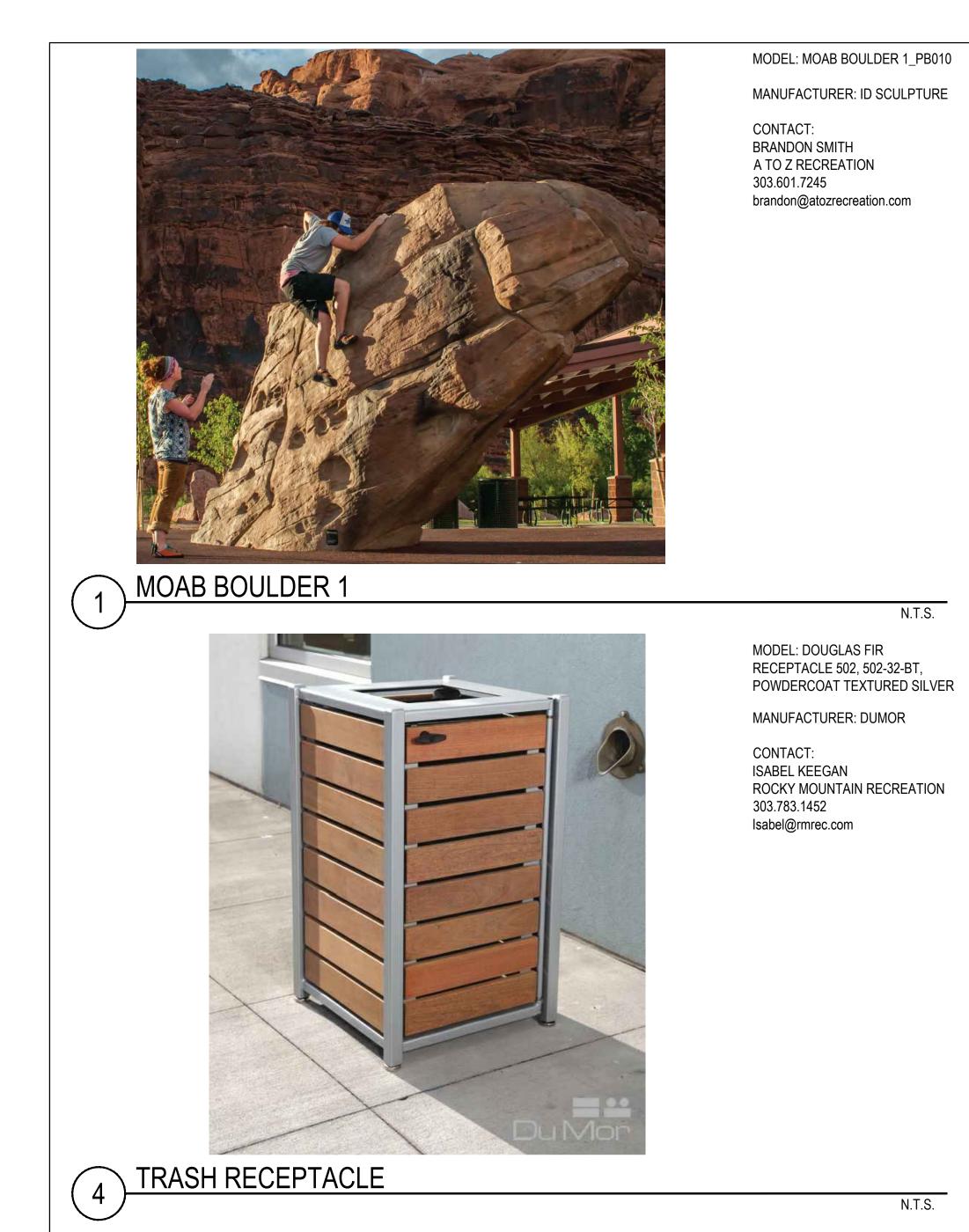




BENDA BOARD EDGER





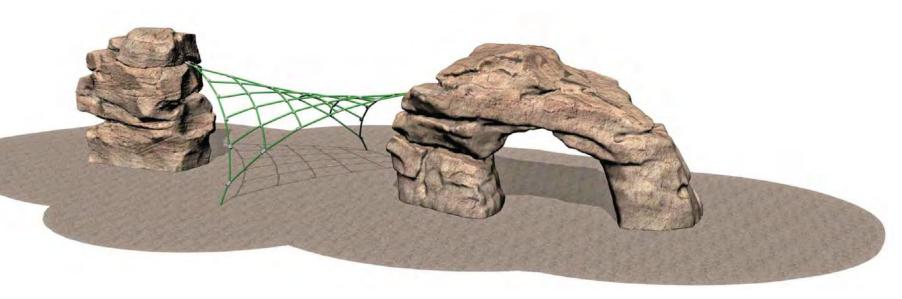


2

MODEL: SANDSTONE COMBO_CMB003

MANUFACTURER: ID SCULPTURE

CONTACT: BRANDON SMITH A TO Z RECREATION 303.601.7245 brandon@atozrecreation.com



SANDSTONE HYPAR COMBO



POWDERCOAT TEXTURED SILVER

MODEL: BIKE RACK 291 SERIES,

N.T.S.

3

CONTACT: ISABEL KEEGAN ROCKY MOUNTAIN RECREATION 303.783.1452 Isabel@rmrec.com

BIKE RACK



N.T.S.

PICNIC TABLE

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

N.T.S.



409 Main Street, Suite 207 PO Box 2320 Frisco, CO 80443 P 970.368.7068

www.norris-design.com



OWNER: TOWN OF FRISCO

1 MAIN STREET FRSCO, CO 970.668.5276 970.668.0677





IRRIGATION GENERAL NOTES

- 1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE IMPROVEMENTS SHOW ON THE PLANS.
- 2. THE CONTRACTOR SHALL COORDINATE AS NECESSARY WITH THE GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE FOR SUCCESSFUL COMPLETION OF THIS WORK.
- 3. THE CONTRACTOR ASSUMES ALL LIABILITY ASSOCIATED WITH THE MODIFICATION OF THE IRRIGATION SYSTEM DESIGN WITHOUT NOTIFYING THE OWNER'S REPRESENTATIVE.
- 4. ALL IRRIGATION EQUIPMENT IS TO BE AS SPECIFIED OR APPROVED EQUAL PER THE DISCRETION OF THE OWNER'S REPRESENTATION OF THE OWNER'S 5. 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 CONSTRUCT IF THE CONTRACTOR OBSERVES ANY DISCREPANCIES AMONG THE CONSTRUCTION DOCUMENTS AND THE EXISTING CONDITIONS SITE, IT IS THEIR RESPONSIBILITY TO CONTACT THE OWNER'S REPRESENTATIVE IMMEDIATELY.
- 6. 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.
- 7. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND PAYING FOR TESTING OF THE BACKFLOW PREVENTER BY A STATE CERTIF INSPECTOR. CONTRACTOR SHALL PROVIDE CERTIFICATES TO OWNER'S REPRESENTATIVE.
- 8. THE CONTRACTOR MUST VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. IF THE CONTRACTO FAILS TO DO SO AND DAMAGES ANY UNDERGROUND UTILITIES THROUGH THE COURSE OF HIS WORK THE IRRIGATION CONTRACT SHALL PAY FOR ANY REPAIR WORK ASSOCIATED WITH SAID DAMAGES.
- 9. 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 QUESTIC 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 CONTRACT SHALL PAY FOR ANY REPLACEMENT OR MODIFICATION TO INSURE PROPER LOCATION AND OPERATION OF THE IRRIGATION SYST AND ITS COMPONENTS.
- 10. ALL IRRIGATION DISTRIBUTION LINES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO, MAINLINE, LATERALS, SPRAY HEADS, ROT ROTARY SPRAYS, DRIP EMITTERS SHALL BE KEPT A MINIMUM DISTANCE OF 6' AWAY FROM ALL BUILDING AND WALL FOUNDATIONS AS STIPULATED IN THE GEOTECHNICAL REPORT, WHICHEVER IS GREATER.
- 11. 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.
- 12. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 1'-0" FROM THE EDGE OF PAVED SURFACES AND 3'-0" FROM THE CENTERLI 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.
- 13. 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.
- 13. THE TWO WIRE DECODER CONTROLLER REQUIRES EACH STATION/CONTROL VAVLE AND SENSOR TO HAVE AN FD DECODER. IT 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

ODER	
QTY. OF STATIONS (VALVES) PER MANIFOLD	REQUIRED FD DECODER
STATION	FD-101TURF
OR 2 STATIONS SIMULTANEOUSLY	FD-201TURF
TO 4 STATIONS SIMULTANEOUSLY	FD-202TURF
TO 4 STATIONS W/INDIVIDUAL CONTROL	FD-401TURF
ENSORS	SD-210TURF
SURGE SUPPRESSION	LSP1TURF

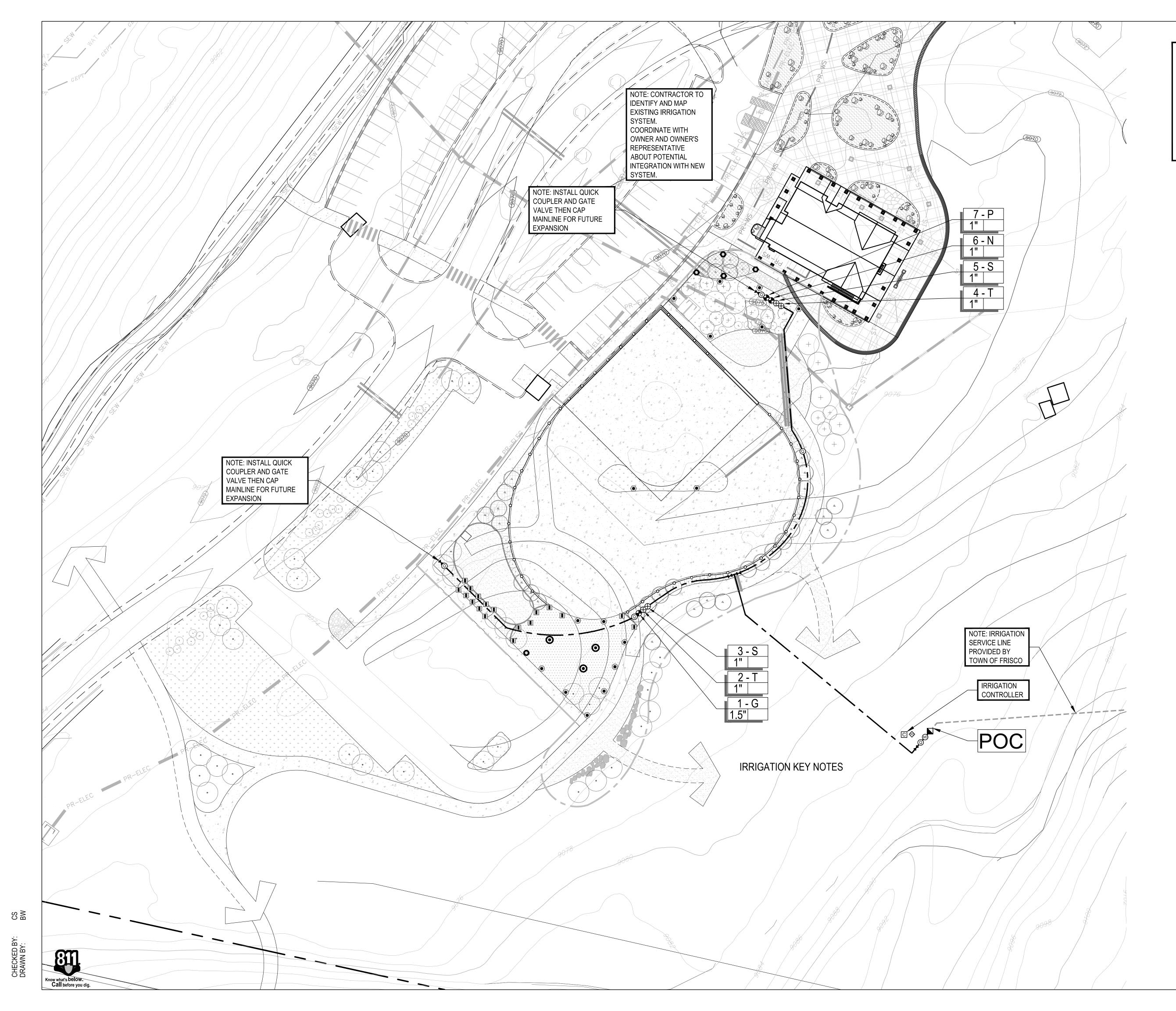
- 14. CONTRACTOR SHALL PULL AND STORE 30" MIN. OF WIRE INTO EACH VALVE BOX. CONTRACTOR SHALL EXTEND SPARE DECODER WIRES AT THE END OF ALL MAINLINE BRANCHES OR TWO-WIRE PATH BRANCHES SERVING THAT CONTROLLER. COIL 30" LENGTH OF SPARE WIRES IN A 10" ROUND VALVE BOX.
- 15. CONTROLLER WIRE SHALL BE 14GA MIN. 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.
- 16. CONTRACTOR SHALL INSTALL TRACER WIRE IN ALL PRESSURE MAINLINE TRENCHES. SEE IRRIGATION DETAILS FOR MORE INFORMATION.
- 17. 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.
- 18. PLANT MATERIAL LOCATIONS TAKE PRECEDENCE OVER IRRIGATION LINES. COORDINATE INSTALLATION OF IRRIGATION EQUIPME SO THAT IT DOES NOT INTERFERE WITH THE PLANTING OF TREES OR OTHER LANDSCAPE MATERIAL INCLUDING PERENNIAL BEDS
- 19. 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.
- 20. 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 THOROUGHI BEFORE INSTALLING EMITTERS.
- 21. TREES SHALL BE IRRIGATED BY ROOT ZONE WATERING BUBBLERS, SEE EMITTER SCHEDULE FOR ADDITIONAL INFORMATION.
- 22. SHRUBS, GROUNDCOVER AND PERENNIALS SHALL BE IRRIGATED BY PRESSURE REGULATING SINGLE OUTLET EMITTERS, SEE EMITTER SCHEDULE FOR ADDITIONAL INFORMATION.
- 23. CONTRACTOR SHALL FINE TUNE AND ADJUST NOZZLE DIRECTION AND RADIUS TO REDUCE OVERSPRAY ONTO PAVING OR HARD SURFACES.
- 24. CONTRACTOR SHALL INSTALL A QUICK COUPLER IN 10" VALVE BOX AT THE END OF ALL BRANCHES OF THE MAINLINE, OR AS SHOW ON PLANS, FOR WINTERIZATION AND FLUSHING OF MAINLINE.
- 25. ESTABLISHMENT WATERING WILL REQUIRE UP TO TWICE AS MUCH IRRIGATION FOR A 21 DAY PERIOD. THE DESIGN IS BASED ON FOLLOWING PROJECTED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 30-YEAR AVER WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS ABOVE AND BELOW AVERAGE VALUES UTILIZED.
 - FESCUE/BLUEGRASS BLEND TURF

NATIVE SEED

- 1.75" PER WEEK PEAK SEASON 1.00" PER WEEK (FOR ESTABLISHMENT)
- 25. THE CONTRACTOR SHALL PROVIDE A SEASONAL MAINTENANCE SCHEDULE WHICH SHALL BEGIN ON JUNE 1 AND END ON SEPTEM 1 TO INSURE THE EFFICIENCY AND LONGEVITY OF THE IRRIGATION SYSTEM. THE MAINTENANCE SCHEDULE SHALL INCLUDE BUT 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

	NORRIS DESIC Planning Landscape Architecture Project Proj					ON SCHEDU		IRRIGATION POINT OF CONNECTION NOTES: 1. POINT OF CONNECTION:
		DETAIL					SYMBOL	TOWN OF FRISCO IS RESPONSIBLE FOR PROVIDING WATER SERVICE TO THE APPROXIMATE LOCATION SHOWN ON THE PLANS
<form></form>	409 Main Street, S			1-1/2" IRRIGATION SERVICE LINE (PROVIDED BY OTHERS)	NA ^{1-1/2}		POC	
	PO B Frisco, C		PEDESTAL MOUNT	RAIN MASTER EAGLE (TW-EG36-SPED)		IRRIGATION	<u>ات</u>	
	Frisco, C P 970.3					CONTROLLER		CODE, WHICHEVER IS GREATER, TO THE 1-1/2" BACKFLOW PREVENTER. INSTALL ONE MANUAL DRAIN VALVE, ONE 1-1/2" FEBCO
	www.norris-dea		NOTES 13 & 14 FOR	· · · · · · · · · · · · · · · · · · ·		VALVE		
			GROUNDING					
	I					SENSOR		
			SECURITY	· · · · · · · · · · · · · · · · · · ·				
Control of the state of th						PREVENTER		·
					11.00		SHOWN	
							MD	
All control the control to the c			SIZE PER LINE					
					BRU			
							0	
	ح ا							
						VALVE		
INTERNET						ASSEMBLY	\oplus	THE CONTRACTOR ASSUMES ALL LIABILITY AND COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS TO ACCOMMODATE THE
	S			3/4" PRESSURE REGULATING FILTER (PRF-075) (30 PSI)	3/4"	DRIP		AUTUAL PRESSURE.
INSERTIONE BRACKATION OF BREAKED BRACK LOBERAL COMPARIZONE SHUTCH SHOULD BEAKED ON THE OWNER DATA DESIGNATION OF BEEKERS PROVIDE THE OWNER DATA DESIGNATION OF DESIGNATION OF BEEKERS PROVIDE THE OWNER DATA DESIGNATION OF BEEKERS PROVIDE THE OWNER DATA DESIGNATION OF D	Ζ							SLEEVING COORDINATION NOTES:
			@ 45 PSI	8'-24' HAND ADJUSTABLE AND FIXED ROTARY STREAM 1804	8'-24			I. INSTALLATION OF IRRIGATION SLEEVING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. SLEEVES SHALL BE INSTALLED
2 THE CONTRACTOR SHULL SEEVE ALL REVEAL DESTRUCTION. UNES X.V.Y.E CONTROL WREES AND CONSUMINGATION WREES 3 ALL SEEVES SHALL CYTERD SERVICES BARRAGES AND LOSS INCIDENCE OF THE SEEVES OF OTHER TURNES IN 5 ALL CURES OF PARKEW THE VIEW SEEVE ALL BESTRUCTIONS. NO THER FLASS OR OTHER TURNES IN 5 ALL CURES OF PARKEW THE VIEW SEEVE ALL BESTRUCTIONS. NO THER FLASS OR OTHER TURNES IN 5 ALL CURES OF PARKEW THE VIEW SEEVE ALL BESTRUCTIONS. NO THER FLASS OR OTHER TURNES IN 5 ALL CURES OF PARKEW THE VIEW SEEVE ALL BESTRUCTIONS IN THE VIEW SEEVE ALL DESTRUCTIONS IN THE VIEW SEEVE 5 ALL CURES OF PARKEW THE VIEW SEEVE ALL BESTRUCTIONS IN THE VIEW SEEVE ALL DESTRUCTIONS IN THE VIEW SEEVE 5 ALL CURES OF PARKEW THE VIEW SEEVE ALL BESTRUCTIONS IN THE VIEW SEEVE ALL DESTRUCTIONS IN THE VIEW SEEVE 5 ALL CURES OF PARKEW THE VIEW SEEVE ALL DESTRUCTIONS IN THE V	Ζω				POP	ROTARY		
	Шþ			1/2" NPT FEMALE THREADED INLET.	1/2" ١		R-VAN 1724	
ALSERVES SHALL CARBO AMMANUM PHOLID REVOLUCIONES. NO THES, ELLS ON OTHER TORICE MARKING PHOLID AMMANUM PHOLID REVOLUCIONES. NO THES, SELLS ON OTHER TORICE MARKING PHOLID AMMANUM PHOLID REVOLUCIONES. NO THES, SELLS ON OTHER TORICE MARKING PHOLID REVOLUCIONES (Sells AMMANUM PHOLID RESTORME DATA) SECURIS AMMANUM PHOLID RESTORME DATA) SECURIS AMMANUM PHOLID REVOLUCIONES (Sells AMMANUM PHOLID REVOLUCIONES) MARKING PHOLID REVOLUCIONES (Sells AMMANUM PHOLID REVOLUCIONES) MARKING REVOLUCIONES								UNDER ALL PAVED SURFACES, WALL FOOTERS, DRAINAGE CHANNELS, INLETS, CATCH BASINS, ETC.
				8'-24' HAND ADJUSTABLE AND FIXED ROTARY STREAM 1812	8'-24			,
s.LEEWING SAALLED PRITHE SUES AND QUATTIES SAVON ON THE FLANS BASED ON THE CARAK BELOW. ALL MANNUE, SUCKASCA ANE TO BE INSTALLED IN BEPARTE SLEEWING SUPPARES AND TO BE INSTALLED IN BEPARTE SLEEWING 1/2 - TP PRING 1/2 - PRIPAG 1/2 - PR					POP			
SURFACES ARE TO BE INSTALLED IN SEPARATIES ELERVING DESCEPTIONE OFFN 1/2' 2' PPING 1/2' 2' PP	O M			1/2" NPT FEMALE THREADED INLET.	1/2" ١		R-VAN 1724	SLEEVING SHALL BE INSTALLED PER THE SIZES AND QUANTITIES SHOWN ON THE PLANS BASED ON THE CHART BELOW. ALL
SLEEVED IPPE SUEEVE SUE AND OTY. %-Y-TPPING 4*PVC (1) %-Y-TPPING 4*PVC (1) <tr< td=""><td>S P S</td><td></td><td></td><td>SCHEDULE 40 PVC PIPE</td><td>NA</td><td>SLEEVING</td><td>—</td><td></td></tr<>	S P S			SCHEDULE 40 PVC PIPE	NA	SLEEVING	—	
% 1* DPING 4* PVG (1) 1/2*: 2* PPING 4* PVG (1) 1/2*: 2* PPING 4* PVG (1) 1:80 CONTROL MRES 4* PVG (1) 1:80 CONTROL MRES 4* PVG (1)					ΝΔ			
1.97 - 2 PMPLOS 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) 1.92 CONTROL WRES 4 PVC (1) <						MAINLINE		
Image: Internal of the internal control of the internal contr					NA 3/4" (
Image: Construction of the construle of the construction of the constructio				3/4" POLYETHYLENE TUBING	NA 3/4" I			1-DU GUINTRUL WIRED 4" PVG (1)
CAP M FLUSH END CAP VALVE CALLOUT EMITTER SCHEDULE VALVE CALLOUT EVENTHER SCHEDULE 1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. EMITTER SCHEDULE SFOR SERFERENCE ONLY. THE CONTRACTORS HALL ADJUST EMITTERS. 2. EMITTER SCHEDULE NOT TO EXCEED STALE ON ALL THE DISTRIBUTION TUBING. 3. M* DISTRIBUTION TUBING NOT TO EXCEED STALE ON ALL THE DISTRIBUTION TUBING. NATIVE SEED	OWNER:		+	CARSON ROUND VALVE BOX (910)			ОНКОВ	
VALVE/STATION # PLANT TYPE EMITTER QTX TOTAL GPH ZONE DESIGNATION: PERENNIALS/GRASSES 0.5 GPH NOR EACH 0.5 GPH CTURES), S(SHRUBS), GCIDULOUS SHRUBS 0.5 GPH TWO EACH 1.0 GPH VALVE SIZE UPPERENNIAL) DECIDULOUS TREE 1.0 GPH SIX EACH 6.0 GPH VALVE SIZE ENTTER NOTES ENTTER NOTES ENTTER NOTES I.0 GPH SIX EACH 6.0 GPH 1 ALL PLANT MATERIAL SHALL SHALL SE IRRIGATED WITH RAINBID XBT SERIES POSUBE REGULATING EMITTERS. E EMITTER NOTES EMITTER SCHEDULE IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL ADUST EMITTER AND NUMBER OF EMITTERS BASED ON THE NEEDS OF INDIVIDUAL PLANTS OR PLANT HYDROZONES. I.1 MIL PLANT MATERIAL PLANTS OR PLANT HYDROZONES. I.1 MIL PLANT BUB TO TO TEXCED 8 IN LENGTH. 1. ALL PLANT MATERIAL SHALL DE IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL ADUST EMITTER AND NUMBER OF EMITTERS BASED ON THE NEEDS OF INDIVIDUAL PLANTS OR PLANT HYDROZONES. I.1 MIL PLANTS OR PLANT HYDROZONES. I.1 MIL PLANT BUB TO TO TEXCED 8 IN LENGTH. 2. EMITTER SCHEDULE IS FOR KELGAS DANT HYDROZONES. I.1 MIL PLANT BUB TO TO TEXCED 8 IN LENGTH. I.1 MIL PLANT BUB TO TO TEXCED 8 IN LENGTH. 3. 147 DISTRIBUTION TUBING. I.1 MIL PLANT BUB CONTRACTOR SHALL ADUST EMITTER AND NUMBER OF EMITTERS BASED ON THE NEEED INTIVE SEED <td< td=""><td>TOWN OF FRIS</td><td></td><td></td><td></td><td></td><td></td><td> •</td><td></td></td<>	TOWN OF FRIS						•	
VALUE IS INION # VALUE IS INION # PERENNIALS/GRASSES 0.5 CPH ONE EACH 10.5 CPH VALUE SIZE VALUE SIZE 0.5 CPH TWO EACH 10.0 CPH VALUE SIZE VALUE SIZE 0.5 CPH TWO EACH 10.0 CPH VALUE SIZE VALUE SIZE 0.5 CPH TWO EACH 10.0 CPH VALUE SIZE VALUE SIZE 0.5 CPH TWO EACH 10.0 CPH VALUE SIZE VALUE SIZE 0.5 CPH TWO EACH 10.0 CPH VALUE SIZE VALUE SIZE 0.5 CPH TWO EACH 10.0 CPH VALUE SIZE VALUE SIZE 0.5 CPH TWO EACH 10.0 CPH VALUE SIZE VALUE SIZE 0.5 CPH TWO EACH 10.0 CPH VALUE SIZE 0.0 CPM EVERGREENT REE 10.0 CPH 10.0 CPH VALUE SIZE 0.0 CPM EWITER NOTES 10.0 CPH 10.0 CPH 1.4 LIANT MATERIAL SHALL BE IRRIGATED WITH RAININD XES STERE SUICE REGULATING EMITTERS. 10.0 CPH 10.0 CPH 10.0 CPH 1.4 LIANTEDIN TURING NOT DENCED ON THE CONCORNELL 1.4 CPH 10.0 CPH 10.0 CPH 10.0 CPH 1.4 UP DISTRIBUTION TUBING N	1 MAIN STREE				VE CALLOUT	VALV		
TCTREES), S(SHRUBS), GTURF), N(SEED), P(PERENNAL) DECIDUOUS SHRUBS 0.5 GPH TWO EACH 1.0 GPH VALVE FLOW (GPM) VALVE FLOW (GPM) EVERGREEN SHRUBS 0.5 GPH TWO EACH 1.0 GPH VALVE FLOW (GPM) VALVE SIZE EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH EXPROREENT REE 1.0 GPH SIX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SIX EACH 1.0 GPH SIX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH 1.4 DISTRIBUTION TUBING TO EXCERT SITUE AND NUMBER OF EMITTERS SIX EACH 1.0 GPH SIX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH SIX EACH 6.0 GPH EVERGR	FRSCO, CO 970.668.5276			ION #				
X.X. P(PERENNIAL) GTURF, N(SEED), P(PERENNIAL) EVERGREEN SHRUBS 0.5 GPH TWO EACH 1.0 GPH VALVE FLOW (GPM) EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH VALVE SIZE EMITTER NOTES 1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. EMITTER SOHEDULE IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL ADJUST EMITTERS BASED ON THE NEEDS OF INDIVIDUAL PLANTS OR PLANT HYDROZONES. 3. 14* DISTRIBUTION TUBING NOT TO EXCEED 8'IN LENGTH. SYMBOL DESCRIPTION SYMBOL DESCRIPTION SYMBOL SHALL BE '2' POPUP ROTARY. IRRIGATED AT APPROXIMATELY 60%-70%. COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE TURNED OFF AFTER THE ESTABLISHMENT PERIOD.	970.668.0677							
VALVE FLOW (GPM) DECIDUOUS TREE 1.0 GPH SX EACH 6.0 GPH VALVE FLOW (GPM) EVERGREEN TREE 1.0 GPH SX EACH 6.0 GPH EVERGREEN TREE 1.0 GPH SX EACH 6.0 GPH 6.0 GPH EVERGREEN TREE 1.0 GPH SX EACH 6.0 GPH 6.0 GPH EVERGREEN TREE 1.0 GPH SX EACH 6.0 GPH 6.0 GPH EVERGREEN TREE 1.0 GPH SX EACH 6.0 GPH 6.0 GPH EVERGREEN TREE 1.0 GPH SX EACH 6.0 GPH 6.0 GPH EVERGREEN TREE 1.0 GPH SX EACH 6.0 GPH 6.0 GPH EVERGREEN TREE 1.0 GPH SX EACH 6.0 GPH 6.0 GPH EVERGREEN TREE EMITTER NOTES EMITTER NOTES 6.0 GPH 6.0 GPH 1.0 HD STRIBUTION TUBING NOT TO EXCEED SO FOR TRACTOR SHALL ADUIST ENDUTION SHALL ADUIST ENDUTION TUBING. 1.4 ENDISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. ENAINERD DEC/225 DIFFUSE BUG CAPA NOT 5.2 STAKE ON ALL 14'' DISTRIBUTION TUBING. - - SYMBOL DESCRIPTION IRRIGATED AT APPROXIMATELY 60%-70%. COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE SEED TURNED OFF AFTER THE		GPH	PH TWO EACH 1.0					
UNLVE FLOW (GPMi) EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH VALVE SIZE EMITTER NOTES 1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. EMITTER SCHEDULE IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL ADJUST EMITTERS AND NUMBER OF EMITTERS BASED ON THEN SOF INDIVIDUAL PLANTS OF PLANT HYDROZONES. - 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. - - 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. - - NATIVE SEED NATIVE SEED - - SYMBOL DESCRIPTION IRRIGATED SHALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE - VALVE * * * * SEED TURNED OFF AFTER THE ESTABLISHMENT PERIOD. -	TOWN OF FR			DECIDUOUS TREE 1.0 GF				
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 144' DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED SHALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% ★ ★ ★ ★ ★ DRYLAND COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE ★ ★ ★ ★ ★ SEED	COLORADO	GPH	<u>'H SIX EACH 6.0</u>					
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 144' DISTRIBUTION TUBING NOT TO EXCEED B'IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 144'' DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED AT APPROXIMATELY 60%-70% * * * * * DRYLAND COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE * * * * * DRYLAND COVERAGE FOR ESTABLISHMENT PERIOD.				EMITTER NOTES				
THE NEEDS OF INDIVIDUAL PLANTS OR PLANT HYDROZONES. 3. 144* DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 3. 144* DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4* DISTRIBUTION TUBING. NATIVE SEED NATIVE SEED SYMBOL DESCRIPTION IRRIGATED SHALL BE 12* POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% V V		————		TED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMI				
3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8" IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATION APPLICATION ↓ ↓ ↓ ↓ ↓ IRRIGATED SHALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELLY TO BE SEED TURNED OFF AFTER THE ESTABLISHMENT PERIOD.		ED ON	JBER OF EMITTERS BASE					
NATIVE SEED SYMBOL DESCRIPTION IRRIGATED AT APPROXIMATELY 60%-70% IRRIGATED SHALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% UPYLAND COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE SEED TURNED OFF AFTER THE ESTABLISHMENT PERIOD.				EED 8' IN LENGTH.	NOT TO EXCEED 8	BUTION TUBING N	3. 1/4" DISTRIB	
SYMBOL DESCRIPTION IRRIGATION APPLICATION IRRIGATED SHALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% IRRIGATED DRYLAND COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE SEED TURNED OFF AFTER THE ESTABLISHMENT PERIOD.	ണ				R BUG CAP AND	BC-025 DIFFUSE	4. RAINBIRD D	
IRRIGATED SHALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% DRYLAND COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE SEED TURNED OFF AFTER THE ESTABLISHMENT PERIOD.	811.		LICATION		DESCRIF	/BOL	SYN	
Image: with the stablish of t	Know what's below. Call before you		O AT APPROXIMATELY 60%	RIGATED SHALL BE 12" POP-UP ROTARY, IRRIGATED	IRRIGA			
	Can solve you	O RF						
	DATE:					· · · ·		
	04.05.18 SD DR/	4						
ACONSTRUCT	04.13.18 SD SE	<u>(</u>						
SR CONSTRUC	04.27.18 DD PRICIN	ŀ						
SR 		(
SR CONSTR)	-						
SC ONST		C						
S S S S S S S S S S S S S S S S S S S	·	F						
N N N N N N N N N N N N N N N N N N N	I	C						
О- С- С-		-						
び_ ど_ 〇)	(
	/	Č						
	·							
()	SHEET TITL	Ľ						
		(
	NOTES	L						
	1	F						
$\overline{\mathbf{O}}$	IR 0-00	(

IRRIGATION SCHEDULE SYMBOL DESCRIPTION MFR MODEL NO. COMMENTS DET POC POINT OF CONNECTION NA 1-1/2" IRRIGATION SERVICE LINE (PROVIDED BY OTHERS) REFER TO CIVIL SITE AND UTILITY PLANS REFER TO CIVIL SITE AND UTILITY PLANS IC IRRIGATION CONTROLLER IRRITROL RAIN MASTER EAGLE (TW-EG36-SPED) PEDESTAL MOUNT X VALVES PEDESTAL MOUNT X VALVES VALVES SEE IRRIGATION NOTES 13 & 14 FOR GROUNDING SEE IRRIGATION NOTES 13 & 14 FOR GROUNDING IRRITROL IWO-WIRE DECODER (FD-TURF) LINE SURGE PROTECTION (LSP-01) SEE IRRIGATION NOTES 13 & 14 FOR GROUNDING IRRITROL VIRELESS RAIN/FREEZE SENSOR (RFS1000) IN HOT BOX SECURITY ENCLOSURE IN HOT BOX NOT SECURITY ENCLOSURE FEBCO 1-1/2" REDUCED PRESSURE BACKFLOW PREVENTER (825Y) WYE STRAINER IN HOT BOX SECURITY ENCLOSURE ON CONCRETE PAD IN HOT BOX SECURITY ENCLOSURE ON CONCRETE PAD SECURITY ENCLOSURE ON CONCRETE PAD SIZE PER LINE SIZE PER LINE IM MANUAL DRAIN VALVE WATTS CARSON ROUND VALVE BOX (910) BRONZE GATE VALVE (WGV-X) SIZE PER LINE SIZE PER LINE IM QUICK COUPLER RAIN BIRD CARSON ROUND VALVE BOX (910) BRONZE GATE VALVE (WGV-X) SIZE PER LINE SIZE PER LINE	IL Planning Landscape Architecture Project Promotion IL 409 Main Street, Suite 207 PO Box 2320 Frisco, CO 80443 P 970.368.7068 www.norris-design.com
POICPOINT OF CONNECTIONNA1-1/2" IRRIGATION SERVICE LINE (PROVIDED BY OTHERS)REFER TO CIVIL SITE AND UTILITY PLANSICIRRIGATION CONTROLLERIRRITROLRAIN MASTER EAGLE (TW-EG36-SPED)PEDESTAL MOUNT X VALVESNOT SHOWNTWO-WIRE VALVE DECODERSRAIN BIRDTWO-WIRE DECODER (FD-TURF) LINE SURGE PROTECTION (LSP-01)SEE IRRIGATION NOTES 13 & 14 FOR GROUNDINGINOT BACKFLOW PREVENTERIRRITROLWIRELESS RAIN/FREEZE SENSOR (RFS1000)IN HOT BOX SECURITY ENCLOSURENOT SHOWNSECURITY ENCLOSUREHOT BOX FEBCOFEBCOI-1/2" REDUCED PRESSURE BACKFLOW PREVENTER (825Y) WYE STRAINERIN HOT BOX SECURITY ENCLOSURE (HB .75) 11"W x 22"H x 19"LINOT BOWNSECURITY ENCLOSUREHOT BOX BRONZE GATE VALVE (WGV-X)28" x 20" x 4" CONCRETE PADINOT BOUND VALVEGATE VALVEWATTSCARSON ROUND VALVE BOX (910) BRONZE GATE VALVE (WGV-X)SIZE PER LINEINOT BOUND COUPLERQUICK COUPLERCARSON ROUND VALVE BOX (910) BRONZE GATE VALVE (WGV-X)SIZE PER LINE	409 Main Street, Suite 207 PO Box 2320 Frisco, CO 80443 P 970.368.7068
POCCONNECTIONINAAND UTILITY PLANSIRRIGATION CONTROLLERIRRITROLRAIN MASTER EAGLE (TW-EG36-SPED)PEDESTAL MOUNT X VALVESNOT SHOWNTWO-WIRE VALVE DECODERSRAIN BIRDTWO-WIRE DECODER (FD-TURF) LINE SURGE PROTECTION (LSP-01)SEE IRRIGATION NOTES 13 & 14 FOR GROUNDINGImage: SensorIRRITROLWIRELESS RAIN/FREEZE SENSOR (RFS1000)Image: Security SECURITY 	PO Box 2320 Frisco, CO 80443 P 970.368.7068
LineCONTROLLERINRUTROLX VALVESNOT SHOWNTWO-WIRE VALVE DECODERSRAIN BIRDTWO-WIRE DECODER (FD-TURF) LINE SURGE PROTECTION (LSP-01)SEE IRRIGATION NOTES 13 & 14 FOR GROUNDINGImage: SensorIRRITROLWIRELESS RAIN/FREEZE SENSOR (RFS1000)Image: SensorImage: SensorIRRITROLWIRELESS RAIN/FREEZE SENSOR (RFS1000)Image: Security 	P 970.368.7068
NOT SHOWNVALVE DECODERSRAIN BIRDLINE SURGE PROTECTION (LSP-01)NOTES 13 & 14 FOR GROUNDINGImage: SensorIRRITROLWIRELESS RAIN/FREEZE SENSOR (RFS1000)Image: SensorImage: SensorImage: SensorIRRITROLWIRELESS RAIN/FREEZE SENSOR (RFS1000)Image: SensorImage: SensorImage: SensorBACKFLOW PREVENTERFEBCOImage: SensorImage: SensorImage: SensorImage: SensorImage: SensorBACKFLOW PREVENTERFEBCOImage: SensorImage: SensorImag	www.norris-design.com
DECODERSIRRITROLWIRELESS RAIN/FREEZE SENSOR (RFS1000)GROUNDINGImage: Sensor senso	
Image: Security preventerFEBCOWYE STRAINERSECURITY ENCLOSURE ON CONCRETE PADNOT SECURITY ENCLOSUREHOT BOXENCLOSURE (HB .75) 11"W x 22"H x 19"L28" x 20" x 4" CONCRETE BASEImage: Image:	
NOT SECURITY HOT BOX ENCLOSURE (HB .75) 28" x 20" x 4" SHOWN SECURITY HOT BOX ENCLOSURE (HB .75) 28" x 20" x 4" Image: Shown MANUAL DRAIN VALVE WATTS CARSON ROUND VALVE BOX (910) Image: Shown GATE WATTS CARSON ROUND VALVE BOX (910) SIZE PER LINE Image: Shown GATE WATTS CARSON ROUND VALVE BOX (910) SIZE PER LINE Image: Shown GATE WATTS CARSON ROUND VALVE BOX (910) SIZE PER LINE Image: Shown QUICK CARSON ROUND VALVE BOX (910) SIZE PER LINE Image: Shown QUICK CARSON ROUND VALVE BOX (910) SIZE PER LINE Image: Shown CARSON ROUND VALVE BOX (910) SIZE PER LINE Image: Shown CARSON ROUND VALVE BOX (910) SIZE PER LINE Image: Shown CARSON ROUND VALVE BOX (910) SIZE PER LINE	
NOT SHOWNSECURITY ENCLOSUREHOT BOXENCLOSURE (HB .75) 11"W x 22"H x 19"L28" x 20" x 4" CONCRETE BASEImage: Shown of the state of	
SHOWN ENCLOSURE 11*W x 22*H x 19*L CONCRETE BASE Image: Shown MANUAL DRAIN VALVE WATTS CARSON ROUND VALVE BOX (910) BRONZE GATE VALVE (WGV-X) SIZE PER LINE Image: Shown GATE VALVE WATTS CARSON ROUND VALVE BOX (910) BRONZE GATE VALVE (WGV-X) SIZE PER LINE Image: Shown QUICK COUPLER RAIN BIRD CARSON ROUND VALVE BOX (910) CARSON ROUND VALVE BOX (910) 1" COUPLER (LRC-44) SIZE PER LINE	
Image: Drain value BRONZE GATE VALUE (WGV-X) GATE VALVE WATTS CARSON ROUND VALVE BOX (910) BRONZE GATE VALVE (WGV-X) SIZE PER LINE Image: QUICK COUPLER RAIN BIRD CARSON ROUND VALVE BOX (910) 1" COUPLER (LRC-44) SIZE PER LINE	
VALVE WATTS BRONZE GATE VALVE (WGV-X) @ QUICK COUPLER RAIN BIRD CARSON ROUND VALVE BOX (910) 1" COUPLER (LRC-44)	
© COUPLER RAIN BIRD 1" COUPLER (LRC-44)	
VALVE CARSON JUMBO VALVE BOX (1220) ▲ ASSEMBLY RAIN BIRD SCH. 80 PVC BALL VALVE	
TURF CONTROL VALVE (100/150-PESB)	
⊕ VALVE ASSEMBLY RAIN BIRD ASSEMBLY RAIN BIRD (100 DESD) (1220) (1	
DRIP ASSEMBLY KAIN BIRD 1" CONTROL VALVE (100-PESB) 3/4" PRESSURE REGULATING FILTER (PRF-075) (30 PSI)	
TURF ROTARY (RVAN 14/18/1724 1804-SAM-P45) 0.6" MATCHED	
O OF TURF BAIN BIRD 8'-24' HAND ADJUSTABLE AND FIXED ROTARY STREAM 1804 @ 45 PSI	
OF	
1/2" NPT FEMALE THREADED INLET. SEED ROTARY (RVAN 14/18/1724 1812-SAM-P45) 0.6" MATCHED	
O NATIVE FIXED SEED ROTARY (R-1318/1724 1812-SAM-P45) PRECIPITATION RATE O OF SEED 8'-24' HAND ADJUSTABLE AND FIXED ROTARY STREAM 1812 @ 45 PSI	
R-VAN 1318 R-VAN 1318 R-VAN 1724 SEED ROTARY ROTA	
R-VAN 1724 1/2" NPT FEMALE THREADED INLET. SCHEDULE 40 PVC PIPE SEE SLEEVING	
SLEEVING NA NOTES	
PVC NA 1-1/2" CLASS 200 BE PVC PIPE MAINLINE ALL MAINLINE TO HAVE TRACER WIRE AND TAPE	FIRISCO, CO
PVC TURF LATERAL NA 3/4" CLASS 200 PVC PIPE UNLESS OTHERWISE NOTED ON PLAN	
DRIP 3/4" POLYETHYLENE TUBING LATERAL NA	
FLUSH END NA CARSON ROUND VALVE BOX (910)	
CAP FLUSH END CAP EMITTER SCHEDULE	TOWN OF FRISCO
VALVE/STATION # PLANT TYPE EMITTER QTY. TOTAL	
ZONE DESIGNATION: T(TREES), S(SHRUBS), PERENNIALS/GRASSES 0.5 GPH ONE EACH 0.5 GPH DECIDUOUS SHRUBS 0.5 GPH TWO EACH 1.0 GPH	970.668.0677
X - XG(TURF), N(SEED),EVERGREEN SHRUBS0.5 GPHTWO EACH1.0 GPHX"XXP(PERENNIAL)	
DECIDUOUS TREE 1.0 GPH SIX EACH 6.0 GPH VALVE FLOW (GPM) EVERGREEN TREE 1.0 GPH SIX EACH 6.0 GPH	TOWN OF FRISCO
EMITTER NOTES 1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS.	
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. EMITTER SCHEDULE IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL ADJUST EMITTER AND NUMBER OF EMITTERS BASED ON	
 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. 	
 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. 	
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION	Know what's below
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED DRYLAND NALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Know what's below. Call before you dig.
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED SHALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70%	Call before you dig.
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED DRYLAND NALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig. DATE: 04.05.18 SD DRAFT
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED DRYLAND NALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig.
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. EMITTER SCHEDULE IS FOR REFERENCE ONLY. THE CONTRACTOR SHALL ADJUST EMITTER AND NUMBER OF EMITTERS BASED OF THE NEEDS OF INDIVIDUAL PLANTS OR PLANT HYDROZONES. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED MERGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig. DATE: 04.05.18 SD DRAFT 04.13.18 SD SET
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED DRYLAND NALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig. DATE: 04.05.18 SD DRAFT 04.13.18 SD SET 04.27.18 DD
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED MIRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig. DATE: 04.05.18 SD DRAFT 04.13.18 SD SET 04.27.18 DD
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED DRYLAND NALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig. DATE: 04.05.18 SD DRAFT 04.13.18 SD SET 04.27.18 DD
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED DRYLAND NALL BE 12" POP-UP ROTARY, IRRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig. DATE: 04.05.18 SD DRAFT 04.13.18 SD SET 04.27.18 DD
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED MIRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig. DATE: 04.05.18 SD DRAFT 04.13.18 SD SET 04.27.18 DD
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED MIRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig. DATE: 04.05.18 SD DRAFT 04.13.18 SD SET 04.27.18 DD
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED MIRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig. DATE: 04.05.18 SD DRAFT 04.13.18 SD SET 04.27.18 DD PRICING SET PRICING SET
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED MIRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig.
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED MIRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig. DATE: 04.05.18 SD DRAFT 04.13.18 SD SET 04.27.18 DD PRICING SET PRICING SET
1. ALL PLANT MATERIAL SHALL BE IRRIGATED WITH RAINBIRD XBT SERIES PRESSURE REGULATING EMITTERS. 2. 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. 3. 1/4" DISTRIBUTION TUBING NOT TO EXCEED 8' IN LENGTH. 4. RAINBIRD DBC-025 DIFFUSER BUG CAP AND TS-025 STAKE ON ALL 1/4" DISTRIBUTION TUBING. NATIVE SEED SYMBOL DESCRIPTION IRRIGATED MIRIGATED AT APPROXIMATELY 60%-70% COVERAGE FOR ESTABLISHMENT AND ARE ZONED SEPARATELY TO BE	Call before you dig.



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.

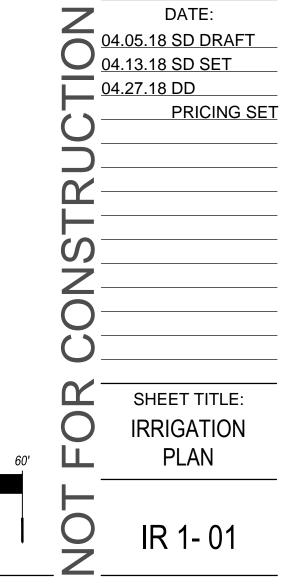


409 Main Street, Suite 207 PO Box 2320 Frisco, CO 80443 P 970.368.7068

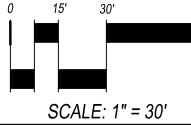
www.norris-design.com

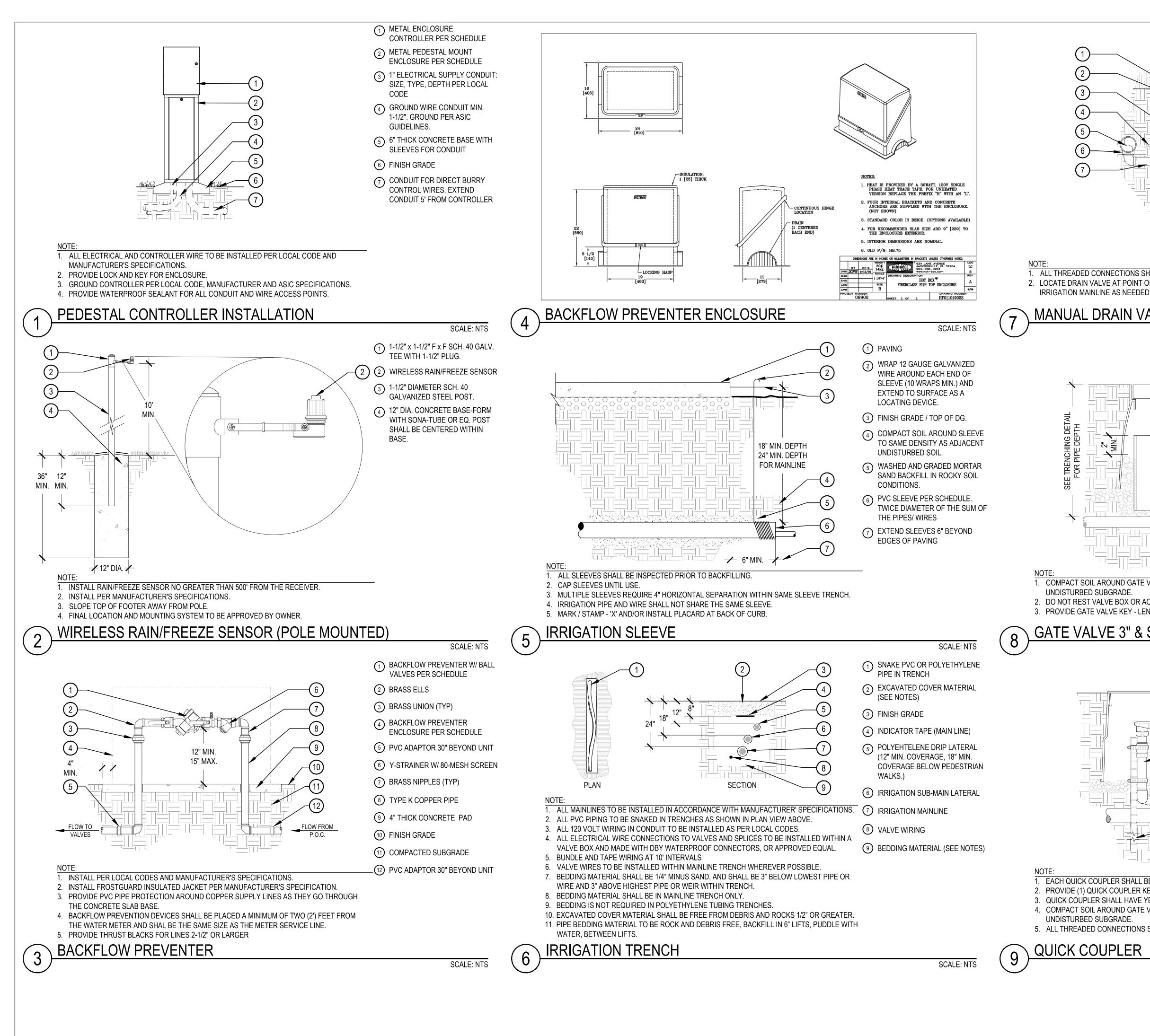


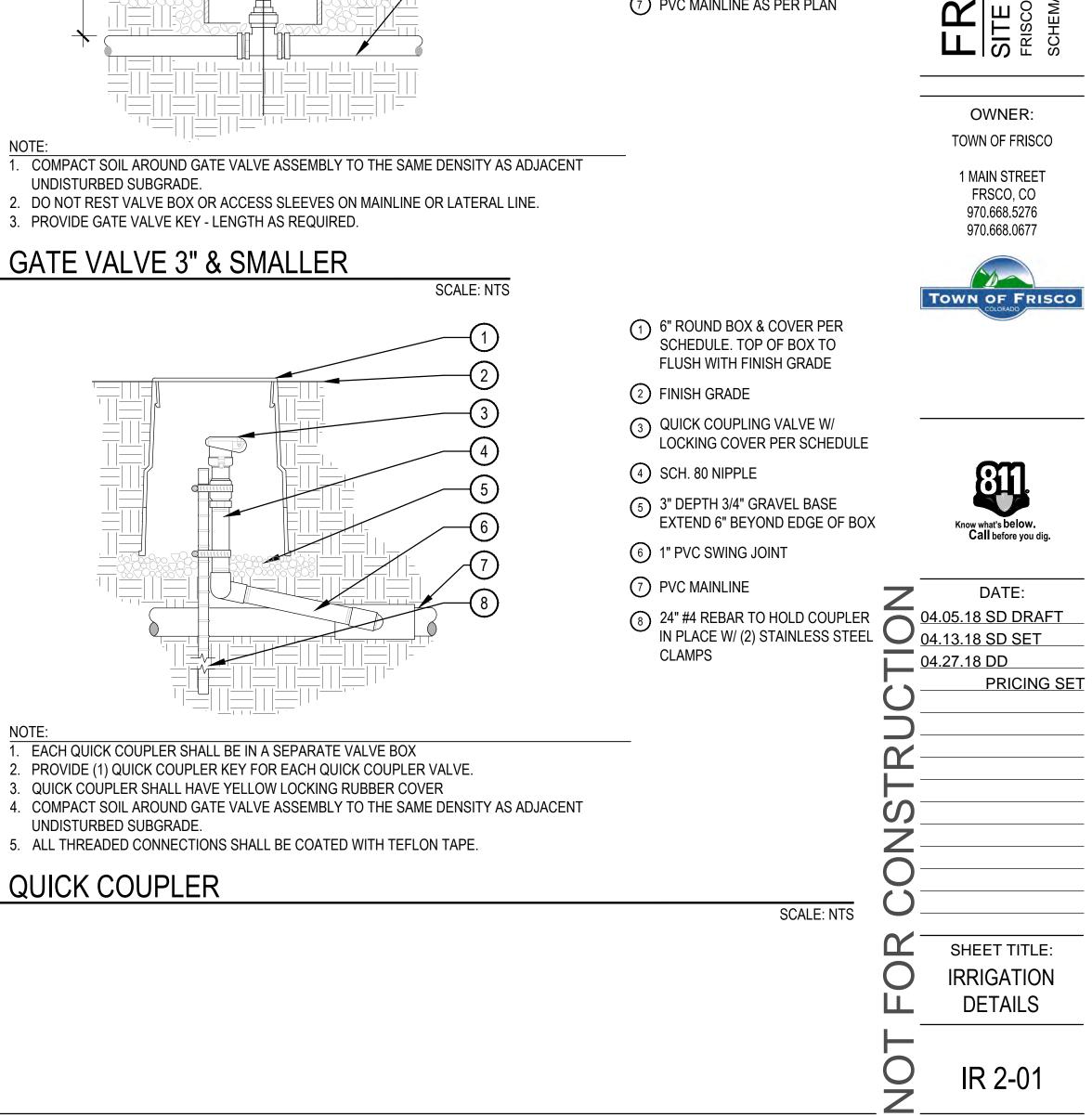








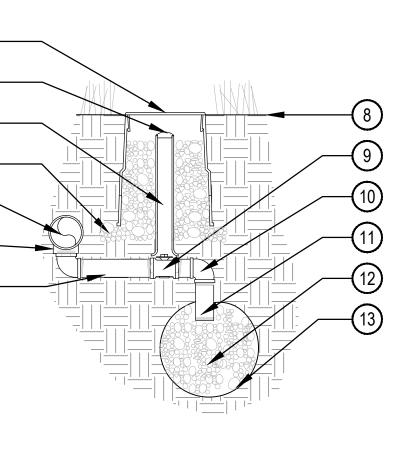




MANUAL DRAIN VALVE

MIN

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



7 PVC MAINLINE AS PER PLAN

- 6 3" DEPTH 3/4: GRAVEL EXTEND 6" BEYOND EDGE OF BOX
- (5) 3/4" GRAVEL SUMP FILL IN AND AROUND BOX AS REQUIRED.
- (4) GATE VALVE W/ CROSS HANDLE AND SOLID WEDGE DISC PER SCHEDULE
- 3 2" CL160 PVC ACCESS SLEEVE LENGTH AS REQUIRED.
- **BE FLUSH WITH FINISH GRADE** (2) FINISH GRADE
- 1 LOCKING ROUND BOX & COVER PER SCHEDULE. TOP OF BOX TO

SCALE: NTS

- (13) SOIL BLANKET ENCLOSING SUMP AMOCO ENG. FABRIC 4545 - 4.5 OZ. OR EQUAL
- (12) 3/4" GRAVEL SUMP 1 CU. FT. MIN
- (1) SCH. 80 PVC NIPPLE
- (10) SCH. 80 PVC ELL
- (8) FINISH GRADE (9) 1" BRONZE STOP VALVE WITH SLOTTED KEY OPERATOR
- (7) SCH. 80 PVC NIPPLE
- 6 SCH. 80 TEE PER MAINLINE SIZE. ALIGN IN A DOWNWARD POSITION
- 5 PVC PRESSURE MAIN LINE
- (4) 3" DEPTH 3/4" CRUSHED GRAVEL 6" BEYOND EDGE OF BOX
- 3 2" CL160 PVC ACCESS SLEEVE LENGTH AS REQUIRED.
- **BOX & COVER PER** SCHEDULE. TOP OF BOX TO BE FLUSH WITH FINISH GRADE.

10" LOCKING ROUND

2 2" VALVE MARKER



409 Main Street, Suite 207

PO Box 2320

Frisco, CO 80443

P 970.368.7068

www.norris-design.com

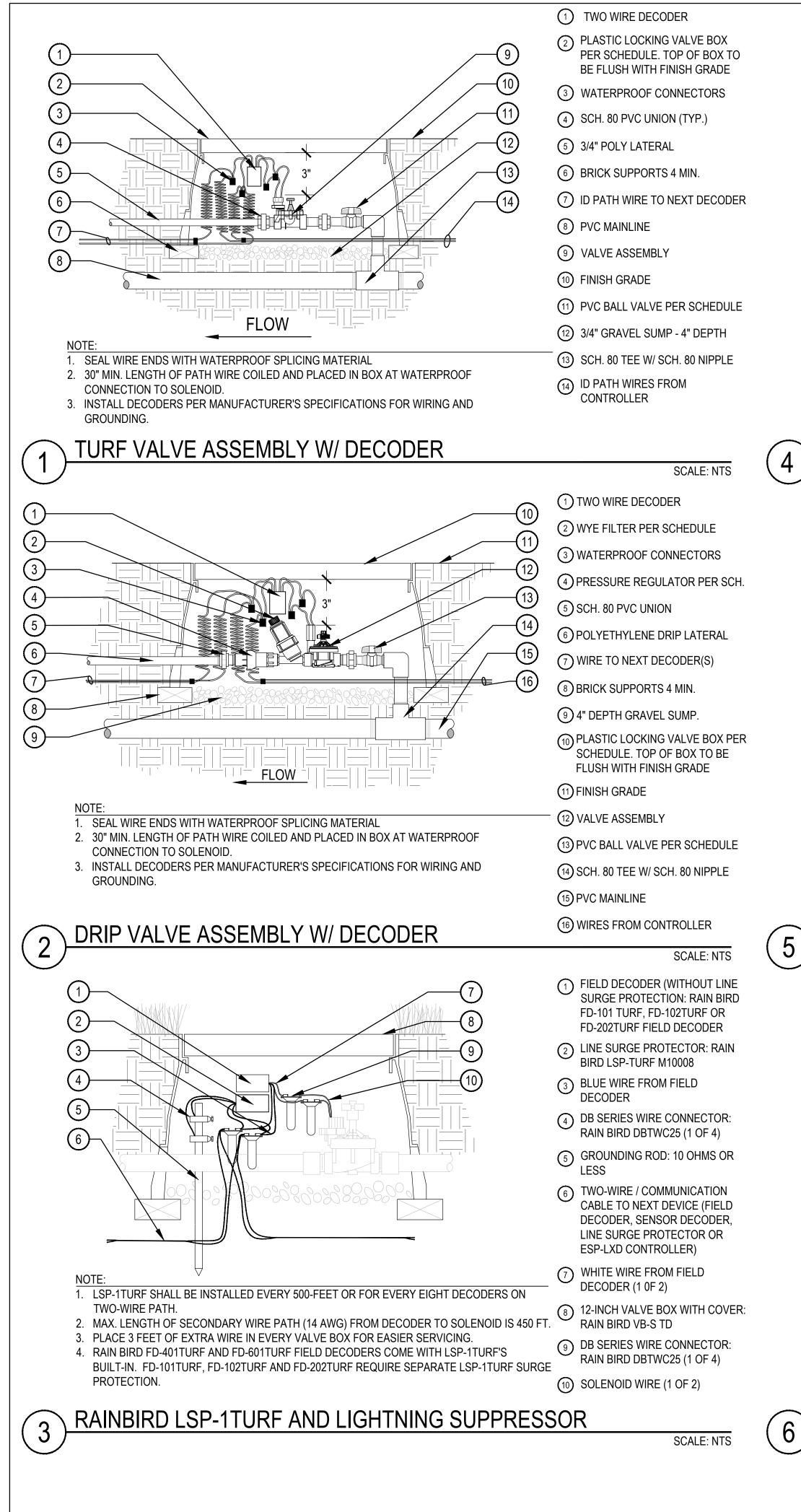
S

Ζ

Z

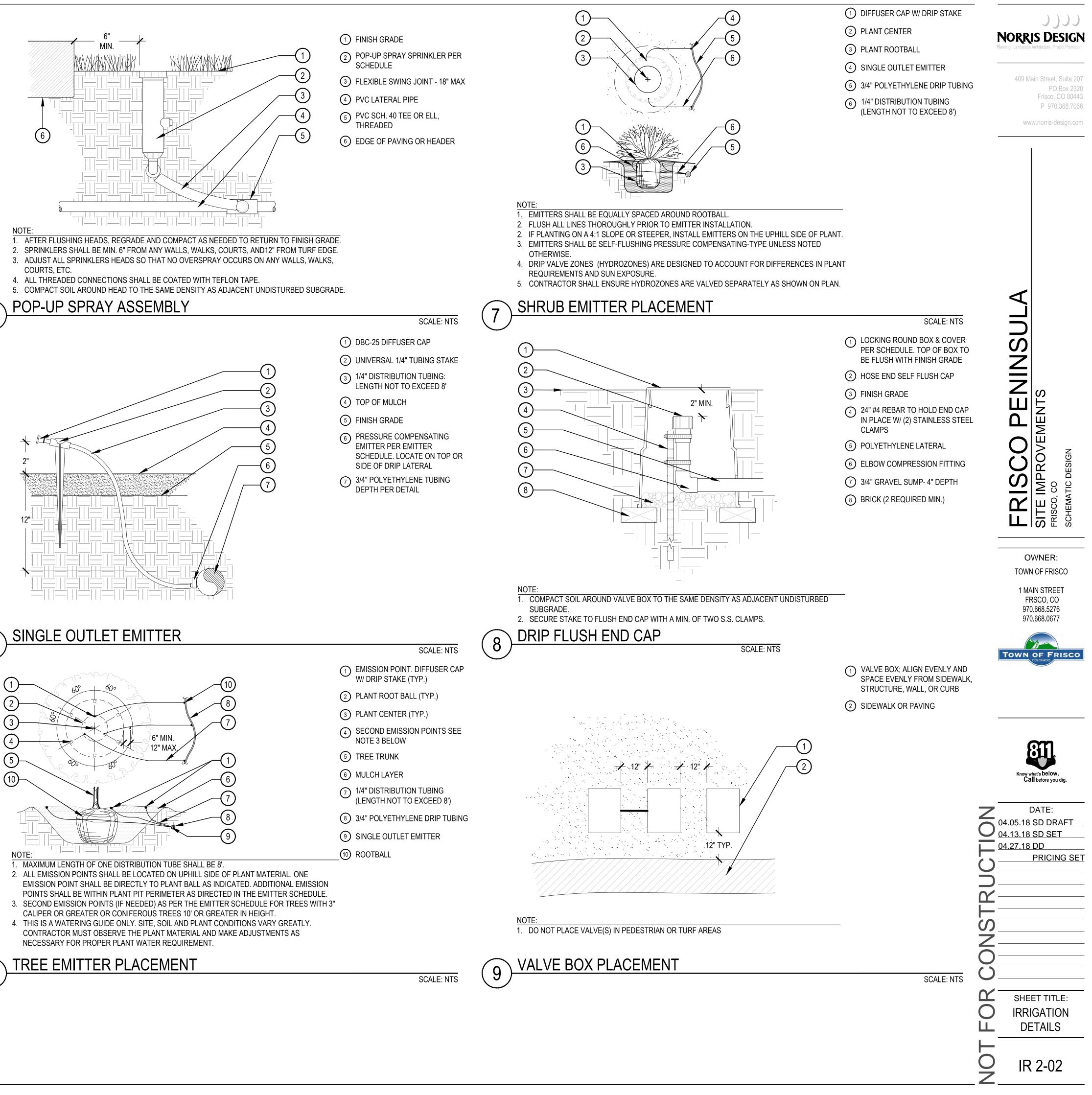
Ш

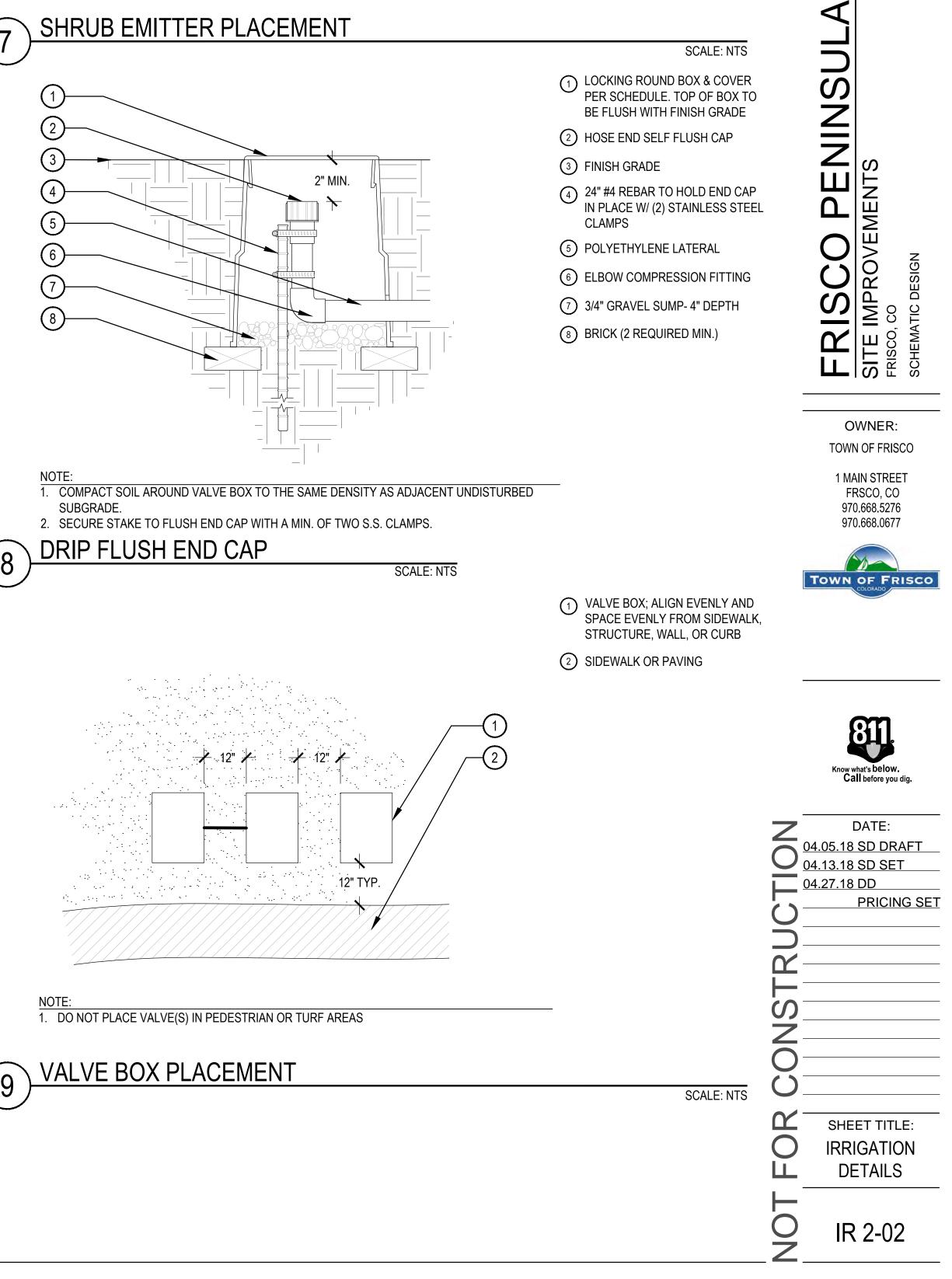
Ω



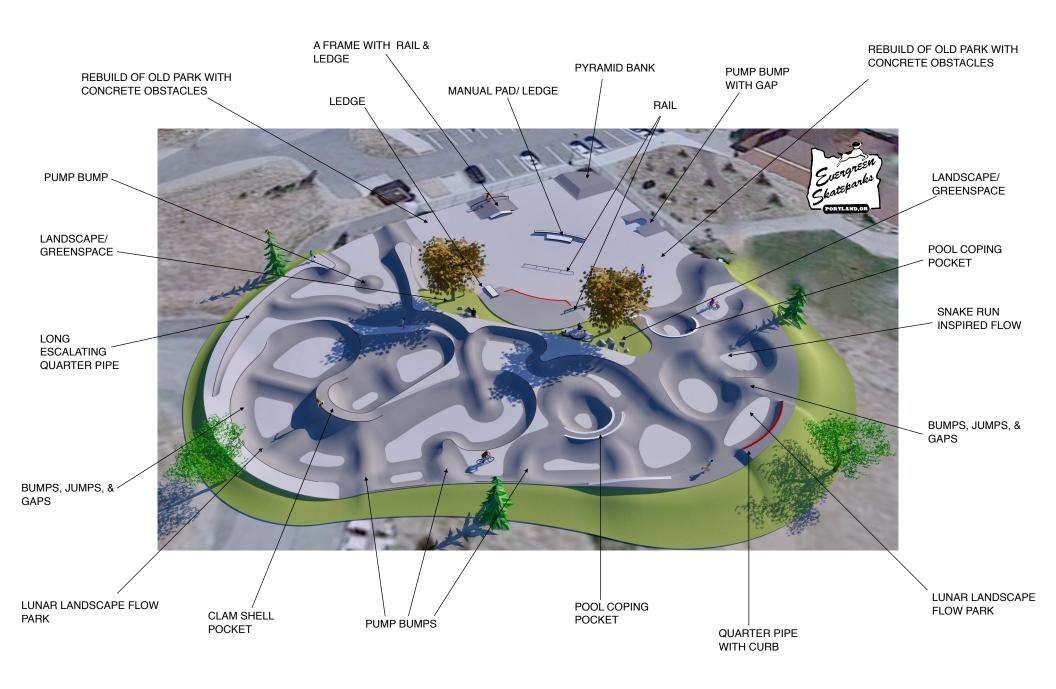
CS BV CHECKED BY: DRAWN BY:

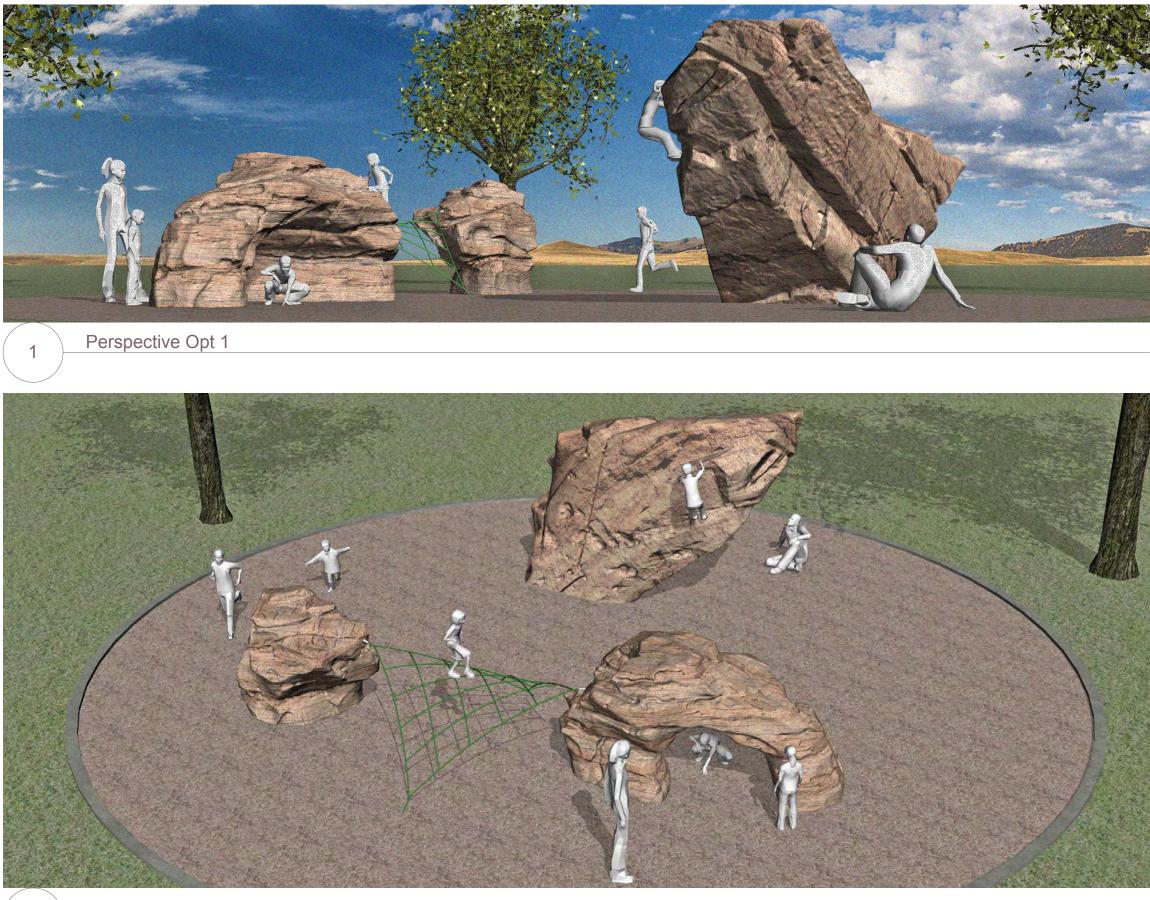
6





Frisco Skatepark Concept







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 accesible, please consult with an ADA professional to ensure

compliance.

Date

9/22/2017

Drawing Title

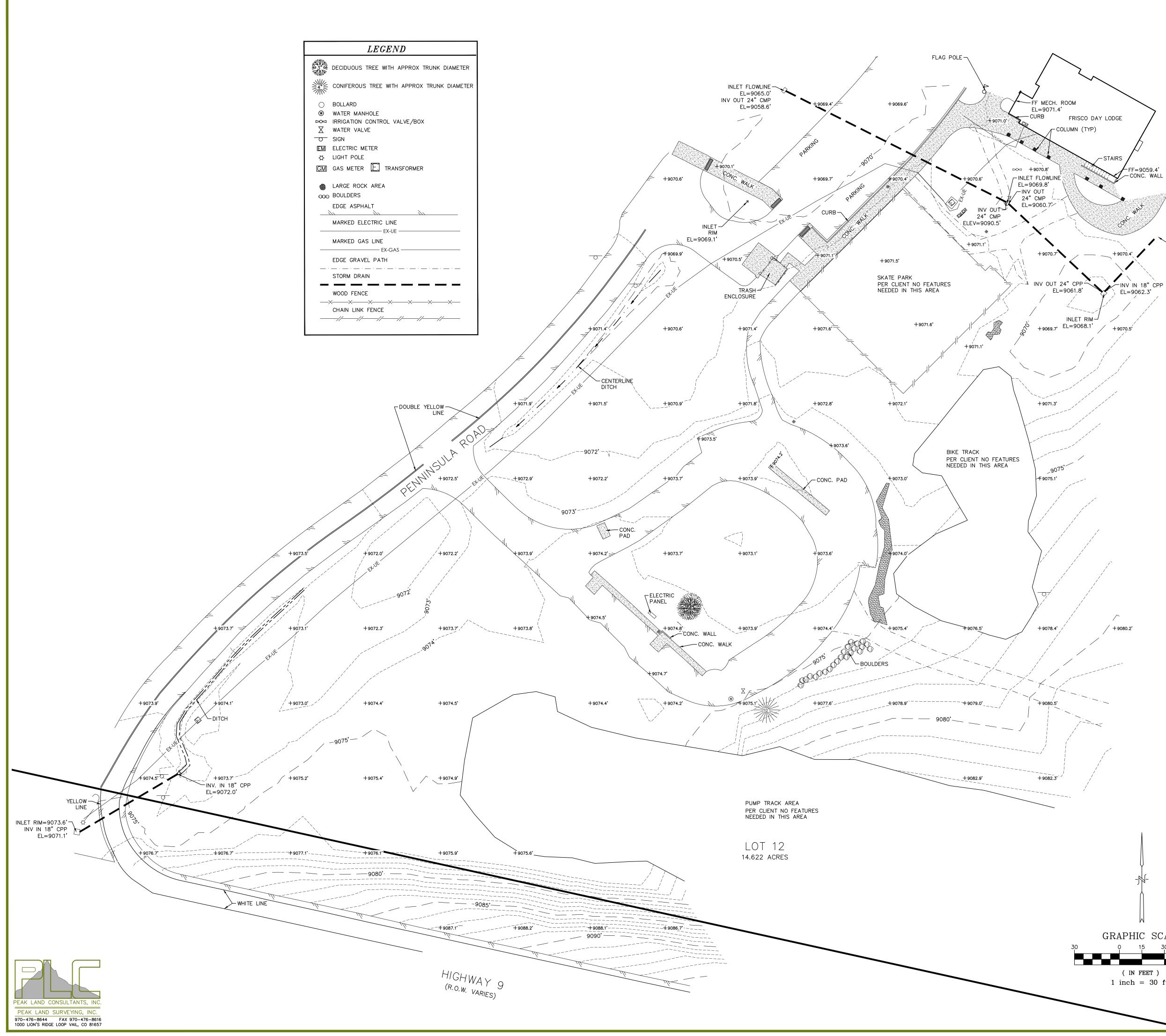
Perspectives Opt 1

Sheet #

A.01.1



591 South Boulevard Street Gunnison, Colorado 81230 info@idsculpture.com



DATE:	BRENT BIGGS COLORADO P.L.S. No. 27598 FOR & ON BEHALF OF PEAK LAND CONSULTANTS, INC.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	PARTIAL TOPOGRAPHIC MAP FRISCO ADVENTURE PARK PART OF SECTION 36, T5S, R78W, 6TH P.M. TOWN OF FRISCO, SUMMIT COUNTY, COLORADO

GENERAL NOTES

FF=9059.4'

(IN

-DID NOT FIND INLET

- 1. DATE OF TOPOGRAPHY: APRIL 04, 2018
- 2. PROJECT BENCHMARK: NGS STATION D 450 ELEVATION = 8814.51 (NAVD 88)

- 3. 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.

- 5. BURIED UTILITY LOCATES PERFORMED BY CLIENT PROVIDED SERVICE, SECONDARY UTILITIES WERE NOT MARKED OR LOCATED.

6. THIS PARTIAL TOPOGRAPHIC MAP IS NOT A LAND SURVEY PLAT OR BOUNDARY SURVEY. NO LEGAL DESCRIPTION PROVIDED BY CLIENT.

7. 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.

8. 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.

DRAWN: KPJ

DATE: 04/13/18

REVIEWED: BB

PLC JOB#: 1673.4

SHEET 1 OF 1

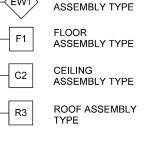
SURVEYOR'S CERTIFICATE

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 REST OF MY KNOW EDGE

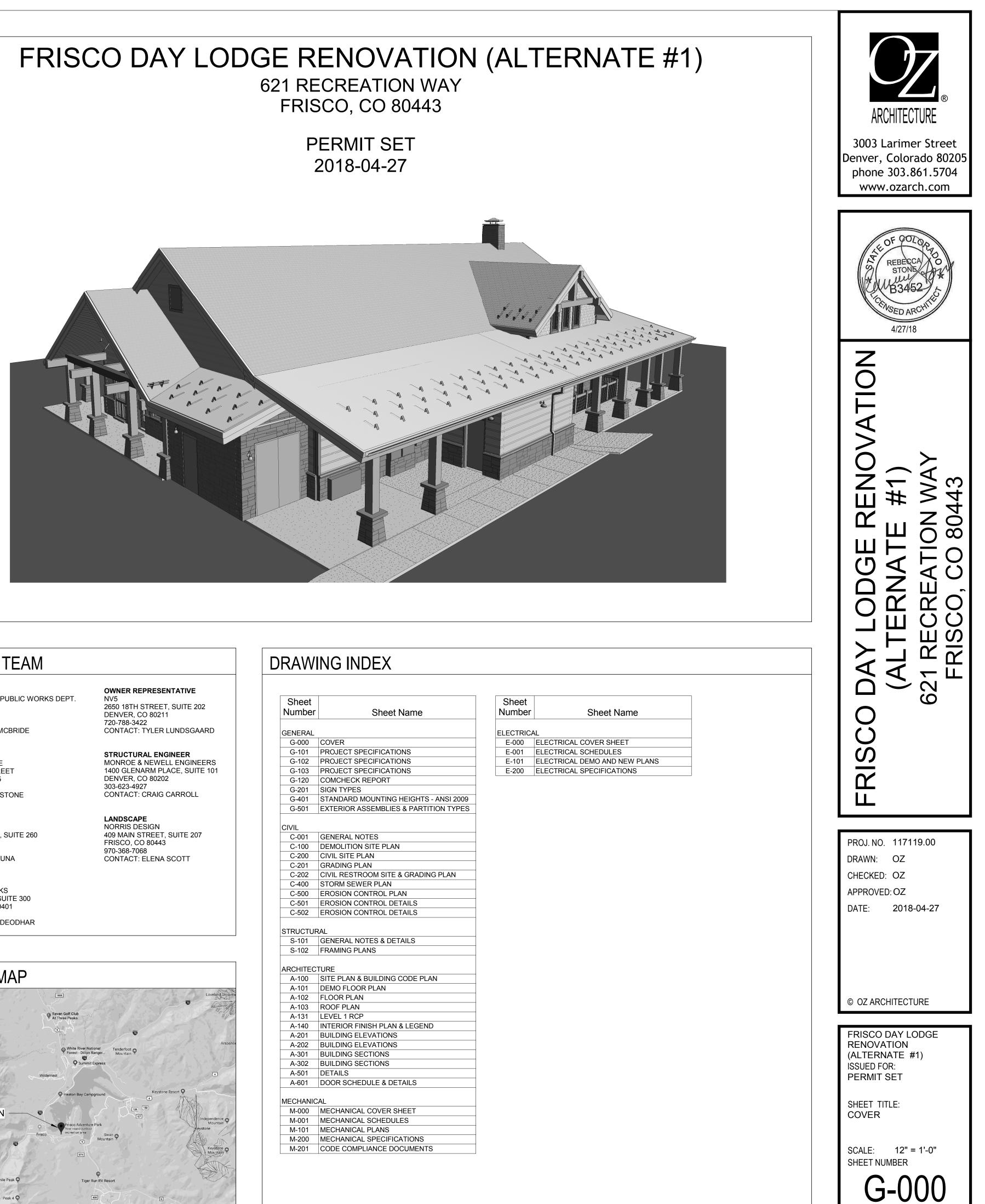
# & <	POUND(S) OR NUMBER AND ANGLE	FOS FR ERP	FACE OF STUD FIRE RESISTIVE or FIRE RATED FIREPCI ASS	PT PTD PTDR	POINT OF TANGEN PAPER TOWEL DISPENSER PAPER TOWEL
@ A/V AB	AT AUDIO/VISUAL ANCHOR BOLT	FRP FRT	FIBERGLASS REINFORCED PANEL(ING FIRE RETARDANT	PTDR	PAPER TOWEL DISPENSER AND RECEPTACLE
ABV ACOUS	ABOVE ACCOUSTICAL	FT	TREATED FOOT (FEET)	PTN PTR	PARTITION PAPER TOWEL RECEPTACLE
ACT	ACCOUSTICAL CEILING TILE	FTG FURN FURR	FOOTING FURNISH(ED) FURRED or FURRING	PVC PVMT	POLYVINYL CHLO PAVEMENT
AD ADD	AREA DRAIN or ACCESS DOOR ADDENDUM	FUT FVC	FUTURE FIRE VALVE CABINET	QT QTY	QUARRY TILE QUANTITY
ADJ	ADJACENT or ADJUSTABLE	GA GALV	GAUGE GALVANIZED	(R) R RAD	REMOVE RISER RADIUS
AFF AGG AHU	ABOVE FINISHED FLOOR AGGREGATE AIR HANDLING UNIT	GB GC GCMU	GRAB BAR GENERAL CONTRACTOR GLAZED CONCRETE	RB RBC	RUBBER BASE RUBBER BASE CO
ALT ALUM	ALTERNATE ALUMINUM	GI	MASONRY UNIT(S) GALVANIZED IRON	RBS RBT	RUBBER BASE ST RUBBER TILE
	ANODIZED APPROXIMATE	GL GND GR	GLASS or GLAZING GROUND GRADE	RD RE REC	ROOF DRAIN or R REFER TO or REF RECESS(ED)
ARCH ASI	ARCHITECTURAL ARCHITECT'S SUPPLEMENTAL	GRT GT	GROUT GLASS TILE	RECPT	RECEPTACLE REFRIGERATOR of
ASPH	INSTRUCTIONS ASPHALT	GWB GYP	GYPSUM WALLBOARD GYPSUM	REINF	REFRIGERATED REINFORCED
AUTO AVE AVG	AUTOMATIC AVENUE AVERAGE	GYP. BD. HAS HB	GYPSUM BOARD HEADED ANCHOR STUD HOSE BIB	REQD RESIL REV	REQUIRED RESILIENT REVISE. REVISED
AWP B	ACOUSTICAL WALL PANEL BASE	HC	HOLLOW CORE or HANDICAPPED	RF	REVISION(S) RESILIENT FLOOF
B.O. B.O.F.	BY OWNER BY OWNER, FUTURE	HDAS HDR	HEADED DEFORMED ANCHOR STUD HEADER	RFG RFL RH	ROOFING REFLECTED RIGHT HAND
BD BIT BLDG	BOARD BITUMINOUS BUILDING	HDR HDWR HM	HEADER HARDWARE HOLLOW METAL	RL RM	RIGHT HAND RAIN LEADER ROOM
BLKG BM	BLOCKING BEAM or BENCH MARK	HORIZ HR	HORIZONTAL HOUR	RO ROD	ROUGH OPENING ROOF OVERFLOW
BOT BRG BSMT	BOTTOM BEARNING BASEMENT	HT HTR HVAC	HEIGHT HEATER HEATING, VENTILATION	ROW RPM	RIGHT OF WAY REVOLUTIONS PE MINUTE
C C.L.	CAULKING CENTERLINE	HW	and AIR CONDITIONING HOT WATER	RVS RWC	REVERSE (SIDE) RAIN WATER CON
CAB CATV	CABINET CABLE TELEVISION	HWH HWY	HOT WATER HEATER HIGHWAY	S SC	SOUTH or SEALED
CCD CCTV	CONSTRUCTION CHANGE DIRECTIVE CLOSED CIRCUIT	IBC	INTERNATIONAL BUILDING CODE or INSTALLED BY CONTRACTOR	SCD SCHED SD	SEAT COVER DISI SCHEDULE SOAP DISPENSEF
CDOT	TELEVISION COLORADO DEPARTMENT		INSIDE DIAMETER INCH(ES)	SEC SF	SECTION SQUARE FEET
CEM CFL	OF TRANSPORTATION CEMENTITIOUS COUNTERFLASHING	INCAND INCL INFO	INCANDESCENT INCLUD(ED) INFORMATION	SHT SHTG SHWR	SHEET SHEATHING
CG CIP	CORNER GUARD CAST IN PLACE	INSUL	INSULATION or INSULATED	SIM SIM SNC	SHOWER SIMILAR SANITARY NAPKIN
CIRC CJ	CIRCUMFERENCE CONTROL JOINT	INT INTMED INV	INTERIOR INTERMEDIATE INVERT	SND	CABINET SANITARY NAPKI
CK CL CLG	CORK TILE COLUMN LINE CEILING	JC JST	JANITOR CLOSET JOIST	SNR	DISPENSER SANITARY NAPKIN RECEPTACLE
CLOS CLR	CLOSET CLEAR	JT KD	JOINT KNOCKDOWN	SOFF SPECS	SOFFIT SPECIFICATION(S
CM CMU	CENTIMETERS CONCRETE MASONRY	KIT KO KP	KITCHEN KNOCKOUT KICK PLATE	SPKL SPKR SPRT	SPRINKLER SPEAKER SUPPORT
со	UNIT CHANGE ORDER or CLEANOUT	LAB	LABORATORY LAMINATE	SQ SR	SQUARE SINK RECEPTACL
COL CONC	COLUMN CONCRETE	LAV LBL	LAVATORY	SS	STAINLESS STEE SOLID SURFACE
CONF CONN	CONFERENCE CONNECTION CONSTRUCTION		LEADER LEFT HAND LOCKER	SSK STA STD	SERVICE SINK STATION STANDARD
CONT	CONTINUOUS CONTRACTOR	LKR LLH LLV	LOCKER LONG LEG HORIZONTAL LONG LEG VERTICAL	STL STOR	STEEL STORAGE
CORR	CORRIDOR or CORRUGATED	LP	LIGHTING PANEL or LIGHT PROOF	STRUCT SUSP	STRUCTURE or STRUCTURAL SUSPEND(ED)
CPT CT CTR	CARPET CERAMIC TILE COUNTER	LT LTL LVR	LIGHT LINTEL LOUVER	SYM SYS	SYMMETRICAL SYSTEM
CU CY	CUBIC CUBIC YARD	MACH MAG	MACHINERY MAGNETIC	T T&B	TREAD TOP AND BOTTO
DAMP DBL	DAMPROOFING DOUBLE	MAS MATL	MASONRY MATERIAL	T&G TB TBC	TONGUE AND GR TOWEL BAR TOP OF BACK OF
DEG DEMO DEPT	DEGREE DEMOLISH or DEMOLITION DEPARTMENT	MAX MB MECH	MAXIMUM MOISTURE BARRIER MECHANICAL	TELE	TELEPHONE TEMPORARY or
DF DIA	DRINKING FOUNTAIN DIAMETER	MED MEMB	MEDIUM MEMBRANE	TG	TEMPERATURE TEMPERED GLAS
DIAG DIM	DIAGONAL DIMENSION	MEP	MECHANICAL, ELECTRICAL and PLUMBING	THERM THK THLD	THERMOSTAT THICK or THICKNE THRESHOLD
DISP DIV DN	DISPENSER DIVISION DOWN	MEZZ MFR	MEZZANINE MANUFACTURER	TO TOC	TOP OF TOP OF CONCRE
DR DS	DOOR DOWNSPOUT	MH MIN	MANHOLE MINIMUM	TOS TOW	TOP OF STEEL TOP OF WALL
DTL DWG	DETAIL DRAWING DRAWIER	MIRR MISC MM	MIRROR MISCELLANEOUS MILLIMETERS	TPD TPTN	TOILET PAPER DISPENSER TOILET PARTITIO
DWR (E) E	DRAWER EXISTING EAST	MO MTD	MASONRY OPENING MOUNT(ED)	TS TV	TUBE STEEL TELEVISION
EA EB	EACH EXPANSION BOLT	MTL MUL	METAL MULLION	TYP UL	TYPICAL UNDERWRITER'S LABORATORY
ED EF	EXHAUST DUCT EXHAUST FAN or EACH FACE	(N) N NIC	NEW NORTH NOT IN CONTRACT	UNFIN UNO	UNFINISHED UNLESS NOTED
EJ EL	EXPANSION JOINT ELEVATION	NO NOM	NUMBER NOMINAL	UOS	OTHERWISE UNLESS OTHERW SPECIFIED
ELEC ELEV	ELECTRICAL ELEVATOR	NRC NTS	NOISE REDUCTION COEFFICIENT NOT TO SCALE	UR. USGS	URINAL U.S. GEOLOGICAI
EMER ENGR EOS	EMERGENCY ENGINEER EDGE OF SLAB	OA OC	OVERALL ON CENTER	V VAR	SURVEY VOLT VARY or VARIES
EOS EQ EQUIP	EQUAL EQUIPMENT	OD OF	OUTSIDE DIAMETER OUTSIDE FACE	VAR VB VCT	VARY OF VARIES VAPOR BARRIER VINYL COMPOSIT
ES EST	EACH SIDE ESTIMATE	OFF OH OPNG	OFFICE OPPOSITE HAND OPENING	VENT VER	VENTILATION VERIFY
EW EWC	EACH WAY ELECTRIC WATER COOLER	OPP OTO	OPPOSITE OUTSIDE-TO-OUTSIDE	VERT VEST VIF	VERTICAL VESTIBULE VERIFY IN FIELD
EWH	ELECTRIC WATER HEATER	P P/L	PAINT(ED) PROPERTY LINE	VIN VOL	VINYL or SHEET V VOLUME
EXT F FA	EXTERIOR FARENHEIT FIRE ALARM	PAC PAR	PREVIOUSLY AWARDED CONTRACT PARALLEL	VTR VWC	VENT THROUGH I
FAC FACP	FIRE ALARM CABINET FIRE ALARM CONTROL	PBO PC	PROVIDED BY OTHERS PRECAST	W W.O. W/	WEST or WIDE WHERE OCCURS WITH
FBO	PANEL FURNISHED BY OTHER(S)	PERF PERIM PKG	PERFORATED PERIMETER PARKING	W/C W/O	WITH WATER CLOSET WITHOUT
FD FDN	FLOOR DRAIN or FIRE DAMPER FOUNDATION	PKG PL PLAM	PARKING PLATE PLASTIC LAMINATE	W/R WC	WATER RESISTAN WALL COVERING
FE FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER	PLAM PLAS PLBG	PLASTIC LAMINATE PLASTER PLUMBING	WD WDO WE	WOOD WINDOW WIDE ELANGE or V
FF FFL	CABINET FINISHED FLOOR FINISHED FLOOR LINE	PLYWD PNL	PLYWOOD PANEL	WF. WGL	WIDE FLANGE or N FLOORING WIRE GLASS
FFL FH FHC	FINISHED FLOOR LINE FIRE HYDRANT FIRE HOSE CABINET	POL PR	POLISHED PAIR or PROPOSAL REQUEST	WP WPT	WATERPROOF(IN WORKING POINT
FHMS	FLAT HEAD MACHINE SCREW	PREFIN	PREFABRICATED PREFINISHED	WSCT WT WWF	WAINSCOT WEIGHT WELDED WIRE FA
FHV FHWS FIN	FIRE HOSE VALVE FLAT HEAD WOOD SCREW FINISH(ED)	PRIM	PRESTRESSED PRIMARY PROJECT	VVVF YD	YARD
FIXT FLG	FIXTURE FLASHING	PROJ PSF	PROJECT POUNDS PER SQUARE FOOT		
FLR	FLOOR(ING) FLUORESCENT	PSI	POUNDS PER SQUARE		
FLUOR FOC	FACE OF CONCRETE	PT	POST TENSIONED or		

PROJECT NOTES THE TERM "GC" SHALL MEAN THE GENERAL CONTRACTOR AND ITS SUB-CONTRACTORS. THE GC SHALL THOROUGHLY FAMILIARIZE ITSELF WITH THE CONTRACT DOCUMENTS AND THE SITE. SHOULD THE GC FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS OR SPECIFICATIONS, SHOULD THE GC BE IN DOUBT AS TO THEIR INTENT OR MEANING, OR HAS QUESTIONS CONCERNING CONSTRUCTABILITY OR CODE COMPLIANCE, THE GC SHALL SEEK CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. SHOULD A CONFLICT OCCUR BETWEEN THE DRAWINGS AND SPECIFICATIONS THAT IMPLYING GREATER QUANTITY OR QUALITY SHALL PREVAIL. THE INTENT OF THE CONTRACT DOCUMENTS IS TO PROVIDE A COMPLETE PROJECT. EVERY ITEM NECESSARILY REQUIRED MAY NOT BE SPECIFICALLY MENTIONED OR SHOWN. UNLESS EXPRESSLY STATED, SYSTEMS AND EQUIPMENT SHALL BE COMPLETELY OPERATIONAL. PROVIDE INCIDENTAL, ACCESSORY, AND ANY OTHER ITEMS NOT SPECIFIED, BUT REQUIRED, FOR A COMPLETE AND FINISHED ASSEMBLY THE ENTIRE SET OF CONTRACT DOCUMENTS REPRESENT THE PROJECT AS A WHOLE. THE GC IS RESPONSIBLE FOR PROVIDING SUFFICIENT INFORMATION TO ITS SUB-CONTRACTORS TO DETERMINE AND PERFORM THEIR SCOPE OF WORK ANY ELECTRONIC CAD AND/OR BUILDING INFORMATION MODELING (BIM) FILES PROVIDED BY THE ARCHITECT OR ITS CONSULTANTS IS SOLELY TO ASSIST THE GC IN PREPARATION OF SHOP DRAWINGS AND/OR LAYOUT OF THE PROJECT. CAD AND BIM FILES ARE NOT A PART OF THE CONTRACT DOCUMENTS AND ANY INFORMATION CONTAINED THEREIN DOES NOT SUPERSEDE ANY INFORMATION ON THE CONTRACT DOCUMENTS. THE GC IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, COORDINATION OF TRADES, AND SCHEDULING OF THE WORK. THE GC SHALL NOT REVISE, SUBSTITUTE, OR CHANGE THE WORK WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. NOT EVERY CONDITION MAY BE DRAWN OR DETAILED. CONDITIONS SIMILAR TO DETAILED CONDITIONS SHALL BE CONSTRUCTED TO THE SAME SIZE AND CHARACTER AS THOSE FOR SIMILAR CONDITIONS. THE GC SHALL FOLLOW THE RECOMMENDATIONS OF THE OWNER'S GEOTECHNICAL CONSULTANT. SHOULD THE GC FIND DISCREPANCIES WITH THE CONTRACT DOCUMENTS, THE GC SHALL SEEK CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK. 10 DO NOT SCALE DRAWINGS. PROVIDE NECESSARY BLOCKING IN WALLS, PARTITIONS, AND CEILINGS FOR ITEMS INCLUDING, BUT NOT LIMITED TO: CEILING AND PARTITION-MOUNTED FIXTURES, GRAB BARS, HANDRAILS, TOILET ACCESSORIES, CABINETRY, PANELING, COUNTERTOPS, SHELVES, CLOSET RODS, WHITE BOARDS, AND DECORATIVE ELEMENTS. 12 THE CONSTRUCTION DOCUMENTS ARE THE PROPERTY OF OZ ARCHITECTURE, INC. AND ITS CONSULTANTS AND ARE TO BE USED AS INSTRUMENTS OF SERVICE FOR CONSTRUCTION OF THIS PROJECT ONLY. USE OF THESE DOCUMENTS BY THE GC FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE WRITTEN CONSENT OF OZ ARCHITECTURE IS PROHIBITED. GRAPHIC STANDARDS STRUCTURAL GRID WINDOW IDENTIFICATION COLUMN NUMBER WINDOW TYPE (2)- $\langle A \rangle$ COLUMN GRID REFERENCE LINE **GLAZING IDENTIFICATION** - COLUMN LETTER GLAZING DOOR IDENTIFICATION TYPE **FLAG NOTE IDENTIFICATION** DOOR NUMBER 9.15 NOTE NUMBER ROOM/SPACE IDENTIFICATION ROOM/FINISH IDENTIFICATION ROOM - ROOM NAME 103 ROOM NUMBER P-1 WALL FIN. 103 – ROOM NUMBER 2828 SF - ROOM AREA * RB-1 - BASE TYPE CPT-1 - FLOOR. FIN. TYPE INTERIOR ELEVATION IDENTIFICATION ELEVATION REFERENCE 2 🚤 DRAWING NUMBER - ELEVATION A7.01) 🛥 - SHEET NUMBER 102'-6" DATUM POINT EXTERIOR ELEVATION IDENTIFICATION LOCATION DRAWING NUMBER 2 MATERIAL PATTERNS A4.01 SHEET NUMBER Concrete **BUILDING SECTION IDENTIFICATION** 1. V & 1. DRAWING NUMBER Undisturbed or Compacted Earth A4.05 SHEET NUMBER Porous Fill (Gravel) Stee WALL/DETAIL SECTION IDENTIFICATION Aluminum DRAWING NUMBER **\A5.01** Masonry - Brick SHEET NUMBER Masonry -Concrete Block DETAIL IDENTIFICATION Insulation - Rigid DRAWING NUMBER 3Insulation - Batt A4.05 SHEET NUMBER Gypsum - Plaster Plywood ENLARGED DETAIL IDENTIFICATION ____ Finish Wood Rough Wood DRAWING NUMBER $\left(\begin{array}{c} 2\\ A2.10 \end{array}\right)$ Acoustic Tile - SHEET NUMBER PARTITION TYPE IDENTIFICATION **ASSEMBLY IDENTIFICATION** PARTITION TYPE EXTERIOR WALL RE: PARTITION ASSEMBLY TYPE TYPE SHEET FLOOR — F1 HEAD OF WALL TYPE RE: ASSEMBLY TYPE PARTITION TYPE SHEET ACOUSTIC PARTITION TYPE CEILING ____C2 ASSEMBLY TYPE **IDENTIFICATION** PARTITION TYPE — R3 RE: PARTITION ROOF ASSEMBLY TYPE SHEET TYPE 23A HEAD OF WALL TYPE RE PARTITION TYPE SHEET * ROOM AREAS: VERIFY BASIS OF MEASUREMENT USED BY ARCHITECT. MAY BE CALCULATED TO CENTERLINE OF SURROUNDING PARTITIONS OR TO INSIDE FINISH SURFACES

GENERAL NOTES



2018-04-27



PROJECT TEAM

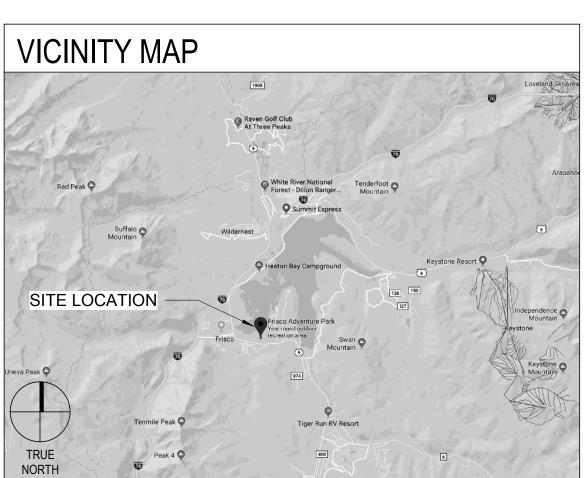
OWNER TOWN OF FRISCO PUBLIC WORKS DEPT. 1 MAIN STREET FRISCO, CO 80443 970-668-5276 CONTACT: DIANE MCBRIDE

ARCHITECT **OZ ARCHITECTURE** 3003 LARIMER STREET DENVER, CO 80205 303-861-5704 CONTACT: BECKY STONE

CIVIL MARTIN/MARTIN 0101 FAWCETT RD, SUITE 260 AVON, CO 81620 970-926-6007 CONTACT: MARK LUNA

MEP ENGINEER BG BUILDINGWORKS 1626 COLE BLVD, SUITE 300 LAKEWOOD, CO 80401 303-278-3820 CONTACT: RAHUL DEODHAR

Sheet Number	Sheet Nam
GENERAL	
G-000	COVER
G-101	PROJECT SPECIFICATIONS
G-102	PROJECT SPECIFICATIONS
G-103	PROJECT SPECIFICATIONS
G-120	COMCHECK REPORT
G-201	SIGN TYPES
G-401	STANDARD MOUNTING HEIG
G-501	EXTERIOR ASSEMBLIES & PA
CIVIL	
C-001	GENERAL NOTES
C-100	DEMOLITION SITE PLAN
C-100	CIVIL SITE PLAN
C-200 C-201	GRADING PLAN
C-202	CIVIL RESTROOM SITE & GR
C-400	STORM SEWER PLAN
C-500	EROSION CONTROL PLAN
C-501 C-502	EROSION CONTROL DETAILS EROSION CONTROL DETAILS
STRUCTUF S-101 S-102	
	GENERAL NOTES & DETAILS
S-101	GENERAL NOTES & DETAILS FRAMING PLANS
S-101 S-102	GENERAL NOTES & DETAILS FRAMING PLANS TURE
S-101 S-102 ARCHITEC	GENERAL NOTES & DETAILS FRAMING PLANS TURE
S-101 S-102 ARCHITEC A-100	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE
S-101 S-102 ARCHITEC A-100 A-101 A-102	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN
S-101 S-102 ARCHITEC A-100 A-101	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-131	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-131 A-140	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-131 A-140 A-201	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO BUILDING ELEVATIONS
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-131 A-140 A-201 A-202	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO BUILDING ELEVATIONS BUILDING ELEVATIONS
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-131 A-140 A-201 A-202 A-301	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO BUILDING ELEVATIONS BUILDING SECTIONS
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-103 A-131 A-140 A-201 A-201 A-202 A-301 A-302	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO BUILDING ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS DETAILS
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-131 A-140 A-201 A-201 A-202 A-301 A-302 A-501 A-601	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO BUILDING ELEVATIONS BUILDING ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS DETAILS DOOR SCHEDULE & DETAILS
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-103 A-131 A-140 A-201 A-201 A-202 A-301 A-302 A-501 A-601 MECHANIC	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO BUILDING ELEVATIONS BUILDING ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS DETAILS DOOR SCHEDULE & DETAILS
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-102 A-103 A-131 A-140 A-201 A-201 A-202 A-301 A-302 A-301 A-501 A-601 MECHANIC M-000	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO BUILDING ELEVATIONS BUILDING ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS DETAILS DOOR SCHEDULE & DETAILS AL MECHANICAL COVER SHEET
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-103 A-131 A-140 A-201 A-201 A-202 A-301 A-302 A-501 A-501 A-601 MECHANIC M-000 M-001	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO BUILDING ELEVATIONS BUILDING ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS DETAILS DOOR SCHEDULE & DETAILS AL MECHANICAL COVER SHEET MECHANICAL SCHEDULES
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-103 A-131 A-140 A-201 A-201 A-202 A-301 A-302 A-301 A-501 A-601 MECHANIC M-000 M-001 M-101	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO BUILDING ELEVATIONS BUILDING ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS DETAILS DOOR SCHEDULE & DETAILS AL MECHANICAL COVER SHEET MECHANICAL SCHEDULES MECHANICAL PLANS
S-101 S-102 ARCHITEC A-100 A-101 A-102 A-103 A-103 A-131 A-140 A-201 A-201 A-202 A-301 A-302 A-501 A-501 A-601 MECHANIC M-000 M-001	GENERAL NOTES & DETAILS FRAMING PLANS TURE SITE PLAN & BUILDING CODE DEMO FLOOR PLAN FLOOR PLAN ROOF PLAN LEVEL 1 RCP INTERIOR FINISH PLAN & LEO BUILDING ELEVATIONS BUILDING ELEVATIONS BUILDING SECTIONS BUILDING SECTIONS DETAILS DOOR SCHEDULE & DETAILS AL MECHANICAL COVER SHEET MECHANICAL SCHEDULES



SECTION 01 10 00 - SUMMARY

PART 1 - GENERAL 1.1 SUMMARY

- A. This Section includes the following:
- 1. Work covered by the Contract Documents
- 2. Scope of Work and Work Phases. Owner and Contractor Responsibilities.
- Use of premises.
- Work Restrictions. 1.2 WORK COVERED BY CONTRACT DOCUMENTS
- A. Project Identification: Frisco Day Lodge Renovation.
- B. Lot Location: Township 5S, Range 78W, Section 36, Frisco, Colorado. C. Owner: Town of Frisco. Public Works Department.
- 1.3 SCOPE OF WORK AND WORK PHASES
- A. The Work shall include the construction of a men's and women's restroom addition. B. Before commencing Work, submit a schedule showing the sequence, commencement and completion dates, and move-out and -in dates of Owner's personnel for all Work.
- 1.4 OWNER AND CONTRACTOR RESPONSABILITIES
- A. The Owner will pay for all permits and utility construction fees, including development fees.

B. The owner will provide a consolidated insurance program. The contractor shall provide worker's compensation insurance and verify sub contractors insurance requirements. C. The following list covers items of work not provided for under the specification. This is not a complete list and is intended only to indicate some of the major items that will not be included. These costs should be covered by the Owner under separate budget for soft or indirect costs for the project: Design Fees. Special Consulting Fees. Land Survey. Utility Development Fees – tap fees. Testing and Inspection - contractor to provide materials for testing. Builders risk insurance/ General Liability insurance. Soils Report. Telephone. Models or Renderings. AV systems for the buildings or

D. Mock-Up: Contractor to provide 4'x4' exterior mock-up of all materials for owner to sign-off. Contractor to provide interior samples (minimum 2'x2') that represents all selected finishes, appliances and fixtures for Owner review and

1.5 USE OF PREMISES

A. General: Contractor shall have full use of premises for construction operations, including use of Project site during construction period. Contractor's use of premises is limited only by Owner's right to perform work or to retain other contractors on portions of Project.

B. Use of Site: Limit use of premises to areas within the Contract limits indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated. The contractor shall maintain the site in a clean and orderly fashion. The contractor shall minimize traffic on the access road and keep access road clean during construction. C. The following items shall be included in the general conditions:

1. Protection of adjacent landscaping, existing utilities to remain and exiting construction to remain. 2. Site fencing, temporary surfacing of staging or storage areas, security and protection for materials stored on

3. Construction Dewatering/ shoring (as needed). 1.6 WORK RESTRICTIONS

A. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify Owner's Representative not less than two days in advance of proposed utility interruptions. 2. Do not proceed with utility interruptions without Owner's Representative's written permission. B. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet of entrances, operable windows, or outdoor air intakes.

PART 2 - PRODUCTS (Not Used) PART 3 - EXECUTION (Not Used)

SECTION 01 23 00 - ALTERNATES PART 1 - GENERAL

1.1 SUMMARY

This Section includes administrative and procedural requirements for alternates.

1.2 DEFINITIONS A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the Base Bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation

methods described in the Contract Documents. 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate

alternate into the Work. No other adjustments are made to the Contract Sum.

1.3 PROCEDURES A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate. B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete

description of negotiated modifications to alternates. C. Execute accepted alternates under the same conditions as other work of the Contract.

D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced in schedule ents for materials necessary to achieve the work described under each alternation PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

- 3.1 SCHEDULE OF ALTERNATES A. Alternate No. 1:
 - 1. Base: All work excluding the restroom addition at the Day Lodge. 2. Alternate: Restroom addition at the Day Lodge. This work is identified as "Alternate 1" on the titleblock.

SECTION 01310 - PROJECT MANAGEMENT AND COORDINATION

PART 1 - GENERAL 1.1 SUMMARY

A. This Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:

- Coordination Drawings. Administrative and supervisory personnel.
- Project meetings.
- 4. Requests for Interpretation (RFIs).

1.2 COORDINATION

A. Coordination: Coordinate construction operations included in different Sections of the Specifications to ensure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections, that depend on each other for proper installation, connection, and operation.

- 1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation. 2. Coordinate installation of different components with other contractors to ensure maximum accessibility for
- required maintenance, service, and repair.
- 3. Make adequate provisions to accommodate items scheduled for later installation.

4. Where availability of space is limited, coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, and repair of all components, including mechanical and electrical.

Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings. 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required. C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other

construction activities and activities of other contractors to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:

- Preparation of Contractor's Construction Schedule. Preparation of the Schedule of Values.
- Installation and removal of temporary facilities and controls.
- Delivery and processing of submittals.
- Progress meetings.
- Preinstallation conferences. Project closeout activities.
- . Startup and adjustment of systems.
- 9. Project closeout activities. 1.3 SUBMITTALS

A. Coordination Drawings: Prepare Coordination Drawings if limited space availability necessitates maximum utilization of space for efficient installation of different components or if coordination is required for installation of products and materials fabricated by separate entities.

1. Content: Project-specific information, drawn accurately to scale. Do not base Coordination Drawings on reproductions of the Contract Documents or standard printed data. Include the following information, as applicable: a. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.

- b. Indicate required installation sequences.
- c. Indicate dimensions shown on the Contract Drawings and make specific note of dimensions that
- appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternate sketches to Architect for resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.
- Submit digital copy of coordination drawings to architect for review. Mark up and retain one returned copy as a
- Project Record Drawing. 3. Refer to individual Sections for additional Coordination Drawing requirements related to those Sections. B. Key Personnel Names: Within 15 days of starting construction operations, submit a list of key personnel assignments,
- including superintendent and other personnel in attendance at Project site and their contact information.
- everyone concerned, including Owner and Architect, within three days of the meeting. superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. aid, Security, Progress cleaning, Working hours. particular activity under consideration 1. Attendees: Installer and representatives of manufacturers and fabricators involved in or affected by the are necessary to resolve impediments to performance of the Work and reconvene the conference at earliest feasible date. dates of meetings with preparation of payment requests. and authorized to conclude matters relating to the Work. subsequent activities will be completed within the Contract Time. 1.5 REQUESTS FOR INTERPRETATION (RFIs) response subcontractors. 1. Project name. 2. Date. Name of Contractor. Name of Architect. RFI number, numbered sequentially. Drawing number and detail references, as appropriate. Field dimensions and conditions, as appropriate. Contractor shall state impact in the RFI. Contractor's signature. 1. Attachments shall be electronic files in Adobe Acrobat PDF format. dav. 1. The following RFIs will be returned without action: a. Requests for approval of submittals. Requests for approval of substitutions. Incomplete RFIs or RFIs with numerous errors. will start again. eligible for Contractor to submit Change Proposal Architect in writing within 10 days of receipt of the RFI response. Include the following: 1. RFI number including RFIs that were dropped and not submitted. 2. RFI description. Date the RFI was submitted Date Architect's response was received. appropriate. PART 2 - PRODUCTS (Not Used) PART 3 - EXECUTION (Not Used) SECTION 01 33 00 - SUBMITTAL PROCEDURES PART 1 - GENERAL 1.1 SUMMARY Samples, and other submittals. 1.2 SUBMITTAL PROCEDURES A. General: Electronic copies of CAD Drawings of the Contract Drawings will not be provided by Architect for Contractor's use in preparing submittals. B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities. activities that require sequential activity. until related submittals are received. construction activities.

1.4 PROJECT MEETINGS

- delayed for coordination.
- E. Place a permanent label or title block on each submittal for identification.
- - a. Project name. b. Date.
 - c. Name and address of Architect. d. Name and address of Contractor. e. Name and address of subcontractor.
 - Name and address of supplier. g. Name of manufacturer.

2. Agenda: Prepare the meeting agenda. Distribute the agenda to all invited attendees. 3. Minutes: Record significant discussions and agreements achieved. Distribute the meeting minutes to

B. Preconstruction Conference: Schedule a preconstruction conference before starting construction, at a time convenient to Owner, and Architect, but no later than 15 days after execution of the Agreement. Hold the conference at Project site or another convenient location. Conduct the meeting to review responsibilities and personnel assignments. 1. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its

2. Agenda: Discuss items of significance that could affect progress, including the following: a. Tentative construction schedule, Phasing, Critical work sequencing and long-lead items, Designation of key personnel and their duties, Procedures for processing field decisions and Change Orders, Procedures for RFIs, Procedures for testing and inspecting, Procedures for processing Applications for Payment, Distribution of the Contract Documents, Submittal procedures, Preparation of Record

Documents, Use of the premises and existing building, Work restrictions, Owner's occupancy requirements, Responsibility for temporary facilities and controls, Construction waste management and recycling, Parking availability, Office, work, and storage areas, Equipment deliveries and priorities, First C. Preinstallation Conferences: Conduct a preinstallation conference at Project site before each construction activity that

requires coordination with other construction. Review progress of other construction activities and preparations for the

installation and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise Architect of scheduled meeting dates. 2. Do not proceed with installation if the conference cannot be successfully concluded. Initiate whatever actions

D. Progress Meetings: Conduct progress meetings at weekly or regular intervals as indicated in Agreement. Coordinate

1. Attendees: In addition to representatives of Owner and Architect, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with Project

2. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project. a. Contractor's Construction Schedule: Review progress since the last meeting. Determine whether each activity is on time, ahead of schedule, or behind schedule, in relation to Contractor's Construction Schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and

b. Review present and future needs of each entity present, including the following: Interface requirements. Sequence of operations. Status of submittals. Deliveries. Off-site fabrication. Access. Site utilization. Temporary facilities and controls. Work hours. Hazards and risks. Progress

cleaning. Quality and work standards. Status of correction of deficient items. Field observations. RFIs. Status of proposal requests. Pending changes. Status of Change Orders. Pending claims and disputes. Documentation of information for payment requests.

A. Procedure: Immediately on discovery of the need for interpretation of the Contract Documents, and if not possible to request interpretation at Project meeting, prepare and submit an RFI in the form specified. 1. RFIs shall originate with Contractor. RFIs submitted by entities other than Contractor will be returned with no

2. Coordinate and submit RFIs in a prompt manner so as to avoid delays in Contractor's work or work of

B. Content of the RFI: Include a detailed, legible description of item needing interpretation and the following:

Specification Section number and title and related paragraphs, as appropriate.

9. Contractor's suggested solution(s). If Contractor's solution(s) impact the Contract Time or the Contract Sum,

11. Attachments: Include drawings, descriptions, measurements, photos, Product Data, Shop Drawings, and other information necessary to fully describe items needing interpretation.

a. Supplementary drawings prepared by Contractor shall include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments. C. Software-Generated RFIs: Software-generated form with substantially the same content as indicated above.

D. Architect's Action: Architect will review each RFI, determine action required, and return it. Allow seven working days for Architect's response for each RFI. RFIs received after 1:00 p.m. will be considered as received the following working

Requests for coordination information already indicated in the Contract Documents.

Requests for adjustments in the Contract Time or the Contract Sum.

Requests for interpretation of Architect's actions on submittals.

2. Architect's action may include a request for additional information, in which case Architect's time for response

3. Architect's action on RFIs that may result in a change to the Contract Time or the Contract Sum may be 4. If Contractor believes the RFI response warrants change in the Contract Time or the Contract Sum, notify

On receipt of Architect's action, update the RFI log and immediately distribute the RFI response to affected parties. Review response and notify Architect within seven days if Contractor disagrees with response. G. RFI Log: Prepare, maintain, and submit a tabular log of RFIs organized by the RFI number. Submit log weekly.

5. Identification of related Minor Change in the Work, Construction Change Directive, and Proposal Request, as

A. This Section includes administrative and procedural requirements for submitting Shop Drawings, Product Data,

1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related

2. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination. a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals

C. Submittals Schedule: Provide list of submittals and time requirements for scheduled performance of related

D. Processing Time: Allow enough time for submittal review, including time for resubmittals, as follows. Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.

1. Initial Review: Allow 15 days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be

2. Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal. 3. Resubmittal Review: Allow 15 days for review of each resubmittal.

Indicate name of firm or entity that prepared each submittal on label or title block.

Provide a space approximately 6 by 8 inches (150 by 200 mm) on label or beside title block to record Contractor's review and approval markings and action taken by Architect. 3. Include the following information on label for processing and recording action taken:

 Submittal number or other unique identifier, including revision identifier. 1) Submittal number shall use Specification Section number followed by a decimal point and then a sequential number (e.g., 06100.01). Resubmittals shall include an alphabetic suffix after another decimal point (e.g., 06100.01.A).

Number and title of appropriate Specification Section.

Drawing number and detail references, as appropriate.

Location(s) where product is to be installed, as appropriate. Other necessary identification.

F. Deviations: Highlight, encircle, or otherwise specifically identify deviations from the Contract Documents on submittals.

G. Resubmittals: Make resubmittals in same form and number of copies as initial submittal. Note date and content of previous submittal.

Note date and content of revision in label or title block and clearly indicate extent of revision.

3. Resubmit submittals until they are marked approved from Architect's action stamp. H. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities. Show distribution on

transmittal forms. Use for Construction: Use only final submittals with mark indicating approval from Architect's action stamp.

1.4 CONTRACTOR'S USE OF ARCHITECT'S CAD FILES A. General: At Contractor's written request, copies of Architect's CAD files will be provided to Contractor for Contractor's use in connection with Project

PART 2 - PRODUCTS

2.1 ACTION SUBMITTALS

A. General: Prepare and submit Action Submittals required by individual Specification Sections. B. Product Data: Collect information into a single submittal for each element of construction and type of product or

equipment. 1. If information must be specially prepared for submittal because standard printed data are not suitable for use, submit as Shop Drawings, not as Product Data.

2. Mark each copy of each submittal to show which products and options are applicable.

Submit Product Data before or concurrent with Samples.

4. Number of Copies: Submit three copies of Product Data, unless otherwise indicated. Architect will return two copies. Mark up and retain one returned copy as a Project Record Document. C. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.

1. Preparation: Fully illustrate requirements in the Contract Documents 2. Mark up and retain one returned copy as a Project Record Drawing.

D. Samples: Submit Samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered and installed

2.2 INFORMATIONAL SUBMITTALS

A. General: Prepare and submit Informational Submittals required by other Specification Sections. B. Qualification Data: Prepare written information that demonstrates capabilities and experience of firm or person.

Include lists of completed projects with project names and addresses, names and addresses of architects and owners, and other information specified C. Welding Certificates: Prepare written certification that welding procedures and personnel comply with requirements in

the Contract Documents. Submit record of Welding Procedure Specification (WPS) and Procedure Qualification Record (PQR) on AWS forms. Include names of firms and personnel certified. D. Installer Certificates: Prepare written statements on manufacturer's letterhead certifying that Installer complies with requirements in the Contract Documents and, where required, is authorized by manufacturer for this specific Project.

G. Manufacturer Certificates: Prepare written statements on manufacturer's letterhead certifying that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where required. H. Product Certificates: Prepare written statements on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.

I. Material Certificates: Prepare written statements on manufacturer's letterhead certifying that material complies with requirements in the Contract Documents. J. Material Test Reports: Prepare reports written by a qualified testing agency, on testing agency's standard form,

indicating and interpreting test results of material for compliance with requirements in the Contract Documents. K. Product Test Reports: Prepare written reports indicating current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed

by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency. 2.3 DELEGATED DESIGN

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated.

3. Delegated-Design Submittal: In addition to Shop Drawings, Product Data, and other required submittals, submit three copies of a statement, signed and sealed by the responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional. PART 3 - EXECUTION

3.1 CONTRACTOR'S REVIEW

A. Review each submittal and check for coordination with other Work of the Contract and for compliance with the Contract Documents. Note corrections and field dimensions. Mark with approval stamp before submitting to Architect. B. Approval Stamp: Stamp each submittal with a uniform, approval stamp. Include Project name and location, submittal number, Specification Section title and number, name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents 3.2 ARCHITECT'S / ACTION

A. General: Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action

B. Action Submittals: Architect will review each submittal, make marks to indicate corrections or modifications required, and return it. Architect will stamp each submittal with an action stamp and will mark stamp appropriately to indicate action taken, as follows:

1. "No Exception Taken": When the Architect marks this action, the Work covered by the submittal may proceed provided it complies with requirements of the Contract Documents. Final payment depends on that compliance. 2. "Revise as Noted": When the Architect marks this action, the Work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents. Final payment depends on that compliance.

3. "Rejected": When the Architect marks this action, do not proceed with Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise or prepare a new submittal according to the notations; resubmit without delay. Repeat if necessary to obtain different action mark.

4. "Revise and Resubmit": When the Architect marks a submittal "Revise and Resubmit," do not proceed with Work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise or prepare a new submittal according to the notations; resubmit without delay.

Repeat if necessary to obtain different action mark. A. Do not use, or allow others to use, submittals marked "Not Approved, Revise and Resubmit" at the Project Site or elsewhere where Work is in progress.

5. "Return without Review": For submittals which are not required by the Contract Documents, the Architect will return submittals to the sender without reviewing them.

Informational Submittals: Architect will review each submittal and will not return it, or will return it if it does not comply with requirements. Architect will forward each submittal to appropriate party. D. Partial submittals are not acceptable, will be considered nonresponsive, and will be returned without review.

E. Submittals not required by the Contract Documents may not be reviewed and may be discarded.

SECTION 01 40 00 - QUALITY REQUIREMENTS 1 GENERAL

1.1 SECTION INCLUDES

A. Quality Monitoring: Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality. Perform quality control procedures and inspections during installation

B. Standards: Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

C. Tolerances: Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate. Comply with manufacturers' tolerances.

D. Reference Standards: For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.

E. Manufacturer's Field Services: When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to perform the following as applicable, and to initiate

- instructions when necessary. Observe site conditions.
 - Conditions of surfaces and installation.
 - Quality of workmanship. 4. Start-up of equipment.
 - 5. Test, adjust and balance of equipment.

F. Mock-Ups: Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes. Accepted mock-ups shall be a comparison standard for the remaining Work. G. Removal of Mock-Ups: Where mock-up has been accepted by Architect and no longer needed, remove mock-up and clear area when directed to do so.

PART 2 PRODUCTS - Not applicable to this Section

PART 3 EXECUTION - Not applicable to this Section

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL **1.1 SECTION INCLUDES**

- A. Temporary Services: Provide temporary services and utilities, including payment of utility costs including the following: Water (potable and non-potable). Lighting and power. Metering. Telephone. Toilet facilities. Materials storage. B. Construction Facilities: Provide construction facilities, including payment of utility costs including the following: Construction equipment. Dewatering and pumping. Enclosures. Heating. Lighting. Elevator. Access. Roads. C. Security and Protection: Provide security and protection requirements including the following: Fire extinguishers. Site enclosure fence, barricades, warning signs, and lights. Building enclosure and lock-up. Environmental protection. Pest control during and at the end of construction. Snow and ice removal if applicable.
- D. Personnel Support: Provide personnel support facilities including the following: Architect's field office with telephone. fax and data connection. Contractor's field office. Sanitary facilities. Drinking water. Project identification sign. Cleaning. PART 2 PRODUCTS - Not applicable to this Section PART 3 EXECUTION - Not applicable to this Section

SECTION 01 60 00 - PRODUCT REQUIREMENTS

PART 1 GENERAL

1.1 SECTION INCLUDES A. Manufacturers: Provide products from one manufacturer for each type or kind as applicable. Provide secondary materials as acceptable to manufacturers of primary materials.

- B. Product Selection: Provide products selected or equal approved by Architect. Products submitted for substitution shall be submitted with complete documentation, and include construction costs of substitution including related work. C. Substitutions: Request for substitution must be in writing. Conditions for substitution include:
 - An 'or equal' phrase in the specifications. Specified material cannot be coordinated with other work
 - 3. Specified material is not acceptable to authorities having jurisdiction.
- 4. Substantial advantage is offered to the Owner in terms of cost, time, or other valuable consideration. D. Substitution Requests: Substitutions shall be submitted prior to award of contract, unless otherwise acceptable. Approval of shop drawings, product data, or samples containing substitutions is not an approval of a substitution unless an item is clearly presented as a substitution at the time of submittal.

PART 2 PRODUCTS - Not applicable to this Section

- PART 3 EXECUTION Not applicable to this Section
- SECTION 01 70 00 EXECUTION AND CLOSEOUT REQUIREMENTS

PART 1 GENERAL

- **1.1 SECTION INCLUDES** A. Cutting and patching.
- B. Substantial Completion: The following are prerequisites to substantial completion. Provide the following. 1. Punch list prepared by Contractor and subcontractors as applicable.
 - Supporting documentation.
 - Warranties. 4. Certifications.
 - 5. Occupancy permit.
 - Start-up and testing of building systems.
 - Change over of locks. 8. Meter readings.
 - 9. Commissioning documentation.
- C. Final Acceptance: Provide the following prerequisites to final acceptance.
- Final payment request with supporting affidavits. Completed punch list.
- D. As-Built Drawings: Provide a marked-up set of drawings including changes, which occurred during construction. E. Project Closeout: Provide the following during project closeout.
 - Submission of record documents.
 - Submission of maintenance manuals. Training and turnover to Owner's personnel.
 - 4. Final cleaning and touch-up.
 - Removal of temporary facilities.
- PART 2 PRODUCTS Not applicable to this Section PART 3 EXECUTION

3.1 CUTTING AND PATCHING

- A. Cutting and Patching: Provide cutting and patching work to properly complete the work of the project, complying with project requirements for:
 - 1. Structural work.
 - Mechanical/electrical systems.
 - Visual requirements, including detailing and tolerances. 4. Operational and safety limitations.
 - Fire resistance ratings.
 - Inspection, preparation, and performance.
 - Cleaning.

B. Means and Methods: Do not cut and patch in a manner that would result in a failure of the work to perform as intended, decrease energy performance, increase maintenance, decrease operational life, or decrease safety performance.

C. Inspection: Inspect conditions prior to work to identify scope and type of work required. Protect adjacent work. Notify Owner of work requiring inte D. Performance of Operations: Perform work with workmen skilled in the trades involved. Prepare sample area of each type of work for approval.

E. Cutting: Use cutting tools, not chopping tools. Make neat holes. Minimize damage to adjacent work. Inspect for concealed utilities and structure before cutting.

- F. Patching: Make patches, seams, and joints durable and inconspicuous. Comply with tolerances for new work. G. Cleaning: Clean work area and areas affected by cutting and patching operations.
- SECTION 02 41 19 SELECTIVE DEMOLITION

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Selective Site Demolition:

 Demolition of designated site improvements including paving, curbing, site walls, and utility structures. Demolition of below-grade foundations and site improvements to depth to avoid conflict with new

- construction or site work.
- Removal of hollow items or items which could collapse. 4. Salvage of designated items.
- Protection of site work and adjacent structures.
- Disconnection, capping, and removal of utilities.
- Pollution control during building demolition, including noise control.
- 8. Removal and legal disposal of materials.
- 9. Designated site improvements and adjacent construction. 10. Interruption, capping or removal of utilities as applicable.

B. Selective Building Demolition

Selective demolition of interior partitions, systems, and building components designated to be removed. Selective demolition of exterior facade, structures, and components designated to be removed. Protection of portions of building adjacent to or affected by selective demolition.

- Removal of abandoned utilities and wiring systems.
- Notification to Owner of schedule of shut-off of utilities which serve occupied spaces.
- Pollution control during selective demolition, including noise control. Removal and legal disposal of materials.
- 8. Protection of designated site improvements and adjacent construction.
- 9. Salvage of designated items.
- 10. Interruption, capping or removal of utilities as applicable.

C. Hazardous Materials:

- Not present.
- Removed under separate prior contract. 3. Removed as a part of this contract.

1.2 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 Administrative Requirements. B. Schedule: Submit for approval selective demolition schedule, including schedule and methods for capping utilities to
- be abandoned and maintaining existing utility service.
- 1.3 QUALITY ASSURANCE A. Codes and Regulations: Comply with governing codes and regulations. Use experienced workers.
- 1.4 PRE-INSTALLATION MEETINGS

A. Convene minimum two weeks prior to starting work of this section.

- 1.5 SEQUENCING A. Immediate areas of work will not be occupied during selective demolition. The public, including children, may
- occupy adjacent areas.
- B. No responsibility for buildings and structures to be demolished will be assumed by the Owner. C. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction
- progress
- PART 2 PRODUCTS Not applicable to this Section. PART 3 EXECUTION
- 3.1 SELECTIVE DEMOLITION

A. Demolition Operations: Do not damage building elements and improvements indicated to remain. Items of salvage value, not included on schedule of salvage items to be returned to Owner, shall be removed from structure. Storage or sale of items at project site is prohibited.

- B. Utilities: Locate, identify, disconnect, and seal or cap off utilities in buildings to be demolished.
- C. Shoring and Bracing: Provide and maintain interior and exterior shoring and bracing.

D. Occupied Spaces: Do not close or obstruct streets, walks, drives or other occupied or used spaces or facilities without the written permission of the Owner and the authorities having jurisdiction. Do not interrupt utilities serving occupied or used facilities without the written permission of the Owner and authorities having jurisdiction. If necessary, provide temporary utilities.

E. Operations: Cease operations if public safety or remaining structures are endangered. Perform temporary corrective measures until operations can be continued properly.

F. Security: Provide adequate protection against accidental trespassing. Secure project after work hours.

G. Restoration: Restore finishes of patched areas.



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



 O

O

M

C

 \square

S

Ľ

- 0

 ∞

n

Ο

Ш

R

N

 (\mathbf{O})

 \mathbb{R}

 $\models \mathsf{C}$

© OZ ARCHITECTURE

PROJ. NO. 117119.00

2018-04-27

DRAWN: OZ

CHECKED: OZ

APPROVED: OZ

DATE:

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

SHEET TITLE: PROJECT **SPECIFICATIONS**

SCALE: SHEET NUMBER

SECTION 03 30 00 - CAST-IN-PLACE-CONCRETE PART 1 GENERAL	2.2 FABRICATION A. Wood Moisture Content: 9 to 15 percent.
 I.1 SUMMARY A. Provide cast-in-place concrete, reinforcing and accessories. I.2 SUBMITTALS 	 B. Complete fabrication, including assembly, fi shipment to Project site. Disassemble compone fitting at site, provide ample allowance for scribin
 A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used. B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, 	C. Woodwork for Transparent Finish: 1. Grade: Premium.
 control joints, expansion joints and relationship with adjacent construction. Shop drawings shall be prepared and stamped by a qualified engineer licensed in the jurisdiction of the project. 	 Wood Species: Cedarsubmit san D. Backout or groove backs of flat trim membe ends exposed in finished work.
C. Mix Design: Submit for approval mix design proposed for use. I.3 QUALITY ASSURANCE	E. Shop Priming: Shop prime woodwork for pa Sections.
A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in	1. Backpriming: Apply one coat of seal woodwork. Apply two coats to surfaces
accordance with manufacturer's instructions. B. Testing: Employ an independent testing agency acceptable to Owner to design concrete mixes and to perform	 F. Shop Finishing: Entire finish of exterior arcl possible, finish architectural woodwork at fabrica
material evaluation tests. Provide 7 and 28 day cylinder tests. Comply with ASTM C 143, C 173, C 31 and C 39. C. Standards:	 Grade: Same grade as item to be Backpriming: Apply one coat of se
 ACI 301, Specifications for structural Concrete for Buildings. ACI 318, Building Code Requirements for Reinforced Concrete, and CRSI Manual of Standard Practice. 	woodwork. Apply two coats to surfaces 3. AWI Finish System: Catalyzed pol
D. Mock-Ups: Provide 2' x 2' mock-up for approval to demonstrate quality of workmanship and color match to the existing adjacent concrete. Adjust concentration of color additive as necessary to acheive color match to existing.	4. Sheen: Satin 31-45 gloss units me PART 3 - EXECUTION
 E. Floor Flatness and Levelness Tolerances: 1. Subfloors Under Materials Such as Concrete Toppings, Ceramic Tile, and Sand Bed Terrazzo: ACI 302.1R 	3.1 INSTALLATION A. Before installation, condition woodwork to a
and ASTM E 1155, floor flatness (Ff) of 15, floor levelness (FI) of 13. 2. Subfloors Under Materials Such As Vinyl Tile, Epoxy Toppings, Paint, and Carpet: ACI 302.1R and ASTM	architectural woodwork, examine shop-fabricate packing and backpriming. B. Quality Standard: Install woodwork to comp
E 1155, floor flatness (Ff) of 20, floor levelness (Fl) of 17. ART 2 PRODUCTS 1 MATERIALS	C. Install woodwork true and straight with no di to a tolerance of 1/8 inch in 96 inches (3 mm in 2
 A. Cast-In-Place Concrete: 1. Manufacturers: Concrete Color Additives: Davis Colors. Color: color shall match existing adjacent 	 D. Scribe and cut woodwork to fit adjoining wo E. Anchor woodwork to anchors or blocking bu
concrete. Records indicate "Cocoa" color was used previously on the adjacent existing concrete. 2. Application: Exterior site concrete and pads.	blocking with countersunk concealed fasteners a and filled flush with woodwork.
 Finish for Vertical Surfaces Exposed To View: Smooth rubbed finish. Mechanically Applied Finish for Vertical Surfaces Exposed to View: Bushhammer finish. 	 F. Install trim with minimum number of joints p to greatest extent possible. Scarf running joints
 Finish for Exterior Concrete Platforms, Steps, Ramps and Sloped Walls: Non-slip broom finish. Cast-In-Place Concrete Reinforcing and Accessories: 	 G. Complete finishing work specified in this Se Fill nail and screw holes with matching filler whe
a. Concrete Design Mixes: ASTM C 94, 28 day compressive strength suitable for project requirements and site conditions.	 H. Refer to Division 9 Sections for final finishin I. Clean woodwork on exposed and semiexpo
 b. Formwork: Plywood or metal panel formwork sufficient for structural and visual requirements. c. Reinforcing Bars: ASTM A 767, Class II, galvanized. 	soiled areas.
 d. Steel Wire: ASTM A 82. e. Steel Wire Fabric: ASTM A 497, welded, deformed. f. Constants Materials: ASTM C 150, Type I, Datland comparts notable water. 	SECTION 07 11 00 - DAMPPROOFING PART 1 GENERAL
 f. Concrete Materials: ASTM C 150, Type I, Portland cement; potable water. g. Concrete Admixtures: Containing less than 0.1 percent chloride ions. b. Begleta: Calvanized about steel register minimum 26 gauge (018 inch) 	1.1 SUMMARY A. Provide bituminous dampproofing.
 h. Reglets: Galvanized sheet steel reglets, minimum 26 gauge (.018 inch). i. Waterstops: Rubber, PVC or self expanding butyl/bentonite waterstops. j. Vapor Retarder: ASTM D 4397 polyethylene sheet, 10 mils. 	1.2 SUBMITTALS A. Product Data: Submit manufacturer's p
 J. Vapor Retarder: ASTM D 4397 polyethylene sneet, 10 mils. k. Liquid Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class A. I. Underlayment Compound: Free-flowing, self-leveling cement-based compound. 	used. 1.3 QUALITY ASSURANCE A. Comply with governing codes and regul
 Bonding Compound: Polyvinyl acetate or acrylic base. n. Epoxy Adhesive: ASTM C 881, two-component material. 	in satisfactory use in similar service for three in accordance with manufacturer's instruction
ART 3 EXECUTION 1 INSTALLATION	PART 2 PRODUCTS 2.1 MATERIALS
A. Comply with ASTM C 94. Do not change mix design without approval. Calcium chloride admixtures are not permitted.	A. Foundation Wall Dampproofing: 1. Type: Cold-applied fibered asp
B. Chamfer exposed edges/corners to provide straight lines. C. Tolerance: Plus 1/8" in 10" for grade, alignment, and straightness.	a. Standard: ASTM D 1227, 2. Manufacturer: Dissco 520, or e
 D. Construction Joints: Use keyways, continue reinforcement through joint. E. Expansion Joints: For exterior work locate 30' o.c. at approved locations. Provide smooth dowels across joint 	PART 3 EXECUTION 3.1 INSTALLATION
which permit 1" horizontal movement and no vertical shear movement. F. Isolation Joints: Provide between slabs and vertical elements such as columns and structural walls.	 A. Examine substrate; report unsatisfactor Begin work only after substrate construction
G. Control Joints: Provide sawn or tooled joints or removeable insert strips; depth equal to 1/4 slab thickness. Spacing as required and approved.	B. Clean and prepare substrate; prime if re surfaces from spillage, migration, and dama
H. Wall Finishes: As-cast and patched for concealed work; rubbed smooth, filled and cement paste coated for exposed work.	C. Comply with manufacturer's instructions Install cant strips, reinforcing strips and other
 I. Slab Finishes: Obtain sample approval before beginning work. 1. Scratch: For surfaces to receive mortar setting beds or cementitious flooring materials. 2. Trowel: Hard, smooth, uniform surface for areas to receive resilient flooring, carpet, or other thin finish 	D. Apply dampproofing to achieve 60 mils manufacturer based on project conditions.
 and the second se	<u>SECTION 07 13 00 - SHEET WATERPROOFII</u> PART 1 GENERAL
exposed exterior walks, steps and ramps. 4. Non-Slip Aggregate: After trowel finishing, uniformly trowel 25-lbs./100 s. f. of damp non-slip aggregate into	1.1 SUMMARY A. Provide sheet membrane waterproofing
surface. Cure, then rub lightly to expose aggregate. Use for interior exposed concrete stairs and ramps. 5. Exposed Aggregate: Use chemical retarder or tamp aggregate into wet concrete and expose by brushing	1.2 SUBMITTALS A. Product Data: Submit manufacturer's p
with water. Use where indicated. 6. Hardener Finish: For exposed interior concrete floors. Follow manufacturer's directions.	used. B. Warranty: Submit manufacturers stand
J. Cure and protect work. Report defective work in writing.	materials. 1. Warranty Period: 5 years.
CTION 04 42 00 - EXTERIOR STONE CLADDING RT 1 GENERAL	1.3 QUALITY ASSURANCE A. Comply with governing codes and regu
1 SUMMARY A. Provide exterior cut stonework. 2 SUBMITTALS	in satisfactory use in similar service for three in accordance with manufacturer's instruction B. Testing: Flood testing of horizontal app
A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used. B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and	PART 2 PRODUCTS 2.1 MATERIALS
relationship with adjacent construction. C. Samples: Submit two representative samples of each material specified indicating visual characteristics and finish.	A. Geotextile-Faced Drainage Panels: 1. Manufacturers: Carlisle, MiraD
Include range samples if variation of finish is anticipated.	2. Type: Geotextile faced 3-dime B. Ice and Water Shield:
 A. Testing: Independent testing laboratory. B. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in 	1. Manufacturers: Owens Corning
satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.	PART 3 EXECUTION 3.1 INSTALLATION
C. Mock-Ups: Provide mock-up to demonstrate quality of workmanship and to confirm match to existing adjacent stone cladding and mortar.	 A. Install materials and systems in accordance materials and systems in proper relation wit
RT 2 PRODUCTS MATERIALS	B. Restore damaged components and tes
 A. Natural Stone: 1. Manufacturers: Telluride Stone Company. 2. Application: Wall papels 	SECTION 07 21 00 - THERMAL INSULATION PART 1 GENERAL
 Application: Wall panels. Type: As selected from manufacturer's full range to match existing. Records indicate "Beaver Creek" type was used previously on the existing adjacent stone cladding. 	 1.1 SUMMARY A. Provide thermal insulation and vapor re 1.2 SUBMITTALS
 4. Finish: Match existing. 5. Joints: Match existing. Mortar, ASTM C270, Type S. 	A. Product Data: Submit manufacturer's p used.
a. Portland Cement: ASTM C 150, Type I or II. b. Hydrated Lime: ASTM C 207, Type S.	B. Submit for approval test reports. 1.3 QUALITY ASSURANCE
 c. Aggregate: ASTM C 144. d. Colored Mortar Pigments: Iron oxides and chromium oxides. 	A. Comply with governing codes and regu in satisfactory use in similar service for thre
e. Latex Additive: Water emulsion type.6. Anchors and Attachments: Stainless steel, ASTM A 666, Type 304.	in accordance with manufacturer's instruction PART 2 PRODUCTS
 Anchors and Attachments: Hot-dip galvanized steel, ASTM A 36, and ASTM A 153 galvanizing. ART 3 EXECUTION 	2.1 MATERIALS A. Board Insulation:
1 INSTALLATION A. Dress joints to match existing.	 Manufacturer: Dow Chemical, Application: Foundation walls.
B. Install exterior veneer by utilizing standard stainless steel strap anchors and dowels to structural support or as recommended by manufacturer. Provide mortar joints, color as approved. Seal joints with elastomeric sealant; vent	 Application: Under slabs-on-gi Type: Extruded polystyrene, ri
and weep cavities or as recommended by manufacturer. C. Install to tolerances of plumb, alignment and level of plus or minus 1/8' in 20'.	a. Standard: ASTM C 578. B. Blanket/Batt Insulation:
D. Remove and replace damaged units. Clean using methods recommended by stone supplier.	 Manufacturer: Owens Corning. Application: Thermal insulation
CTION 06 40 10 - EXTERIOR ARCHITECTURAL WOODWORK RT 1 - GENERAL	 Application: Thermal insulation Type: Unfaced mineral fiber. Standard: ASTM C 665 T
1 SUMMARY A. This Section includes the following:	a. Standard: ASTM C 665, T 5. Type: Foil-faced mineral fiber. a. Standard: ASTM C 665 T
 Exterior standing and running trim. Exterior frames and jambs. Exterior louvers. 	a. Standard: ASTM C 665, T b. Accessories: Fasteners a D. Vapor Retarder (Not Integral with Insula
 Exterior fouvers. Exterior ornamental work. Shop finishing exterior woodwork. 	1. Manufacturer: CertainTeed or 2. Application: Exterior walls.
2 SUBMITTALS Product Data: For wood-preservative-treated materials and finishes indicated.	 Application: Extend wais. Type: Reinforced 2-ply polyeth a. Accessories: Seam tapes
. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment	PART 3 EXECUTION

B. Shop Drawings: Show location of each item, dimensioned plans and elevations, large-scale details, attachment

devices, and other components. C. Samples: For lumber for exterior wood stain finish, for each finish system and color, with one-half of exposed surface finished.

1.3 QUALITY ASSURANCE

A. Quality Standard: Unless otherwise indicated, comply with AWI's "Architectural Woodwork Quality

Standards."

PART 2 - PRODUCTS 2.1 MATERIALS

- A. Preservative Treatment by Nonpressure Process: Comply with AWPA N1 using the following preservative for woodwork items indicated to receive water-repellent preservative treatment: Water-Repellent Preservative: Formulation containing 3-iodo-2-propynyl butyl carbamate (IPBC) complying with AWPA P8 as its active ingredient.
- 2. Water-Repellent Preservative/Insecticide: Formulation containing 3-iodo-2-propynyl butyl carbamate (IPBC) as its active ingredient, combined with an insecticide containing chlorpyrifos as its active ingredient, both complying with AWPA P8. B. Nails: PrimeGuard or equivalent. C. Screws: PrimeGuard or equivalent.

SECTION 07 62 00 - SHEET METAL FLASHING AND TRIM PART 1 GENERAL 1.1 SUMMARY

A. Provide flashing and sheet metal.

3.1 INSTALLATION

finishing, and hardware application, to maximum extent possible, before

nents only as necessary for shipment and installation. Where necessary for bing, trimming, and fitting.

bers and kerf backs of other wide, flat members, except for members with

paint finish with one coat of wood primer specified in Division 9 painting ealer or primer, compatible with finish coats, to concealed surfaces of es installed in contact with concrete or masonry and to end-grain surfaces. chitectural woodwork is specified in this Section. To greatest extent cation shop. Defer only final touchup and cleaning until after installation.

e finished. sealer or primer, compatible with finish coats, to concealed surfaces of ces installed in contact with concrete or masonry and to end-grain surfaces. olvurethane neasured on 60-degree gloss meter per ASTM D 523.

average prevailing humidity conditions in installation areas. Before installing ated work for completion and complete work as required, including removal of

nply with same grade specified in Part 2 for type of woodwork involved. distortions. Shim as required with concealed shims. Install level and plumb 2400 mm). vork, and refinish cut surfaces or repair damaged finish at cuts.

built in or directly attached to substrates. Secure to grounds, stripping and and blind nailing. Use fine finishing nails for exposed nailing, countersunk possible, using full-length pieces (from maximum length of lumber available)

its and stagger in adjacent and related members. Section to extent not completed at shop or before installation of woodwork. here exposed.

ing of installed architectural woodwork. posed surfaces. Touch up shop-applied finishes to restore damaged or

product data and installation instructions for each material and product

ulations. Provide products of acceptable manufacturers, which have been ree years. Use experienced installers. Deliver, handle, and store materials

sphalt emulsion.

, Type II, Class 1, troweled on. equivalent

tory conditions in writing. Beginning work means acceptance of substrate. ion and penetrating work is complete. recommended by dampproofing manufacturer. Protect adjacent work and

ons and recommendations including weather and temperature limitations. ther accessories as recommended by dampproofing manufacturer. ils dry film thickness, unless greater thickness is recommended by

ING

product data and installation instructions for each material and product

dard warranty. Include labor and materials to repair or replace defective

ulations. Provide products of acceptable manufacturers, which have been ree years. Use experienced installers. Deliver, handle, and store materials tions. oplications.

aDrain 6000.

nensional, nonbiodegradable, molded-plastic-sheet drainage cores. ing. Weatherlock Self-Sealing Ice and Water Barrier.

dance with manufacturer's instructions and approved submittals. Install with adjacent construction. Coordinate with other work. est waterproofing for leaks. Clean and protect work from damage.

etarders

product data and installation instructions for each material and product

ulations. Provide products of acceptable manufacturers, which have been ree years. Use experienced installers. Deliver, handle, and store materials

Thermax grade. rigid.

ng. Eco-touch Pink. ion in studs in exterior walls. ion at underside of roofs, over heated spaces and soffits.

Type I (unfaced).

Type III (foil-scrim-kraft vapor-retarder membrane). and tapes.

lation): or equivalent

thylene, 6 to 10 mils.

A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction. Coordinate with work of other sections. Provide

full thickness in one layer over entire area, tightly fitting around penetrations. B. Pour loose insulation into cavities indicated; provide uniform coverage at correct density and thickness. C. Install vapor retarder over entire area of inside face of exterior walls and elsewhere as indicated. Seal all seams and around perimeter and penetrations with duct tape to form a continuous vapor retarder free of holes. D. Protect installed insulation and vapor retarder.

1.2 SUBMITTALS

A. Product Data: Submit manufacturer's product data and installation instructions for each material and product B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections,

- and relationship with adjacent construction. C. Samples: Submit two representative samples of each material specified indicating visual characteristics and finish. Include range samples if variation of finish is anticipated.
- **1.3 QUALITY ASSURANCE** A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- PART 2 PRODUCTS 2.1 MATERIALS
- A. Flashing and Sheet Metal: Manufacturers: Architectural Metal Specialties Inc, Hyload, Petersen Aluminum Corp, TYPAR, or
 - equivalent
 - 2. Application: Metal counterflashing and base flashing. Application: Exterior wall flashing and expansion joints.
 - Application: Built-in metal valleys, gutters, and scuppers.
 - Application: Gutters and downspouts. Application: Exposed metal trim and fascia units.
 - Application: Elastic flashing.
 - 8. Application: Elastic roof and wall expansion joint systems. 9. Application: Laminated composition flashing.
 - 10. Application: Ridge and soffit vents.
 - 11. Metal: Zinc-coated steel. a. Standard: ASTM A 653, G90 hot-dip galvanized, 2-Coat 70% Fluoropolymer, 20-gauge (.0359 inch). 12. Metal: Stainless stee
 - a. Standard: AISI Type 302/304, ASTM A 666, 2D annealed finish, 28 gauge (.0156 inch).
 - 15. Metal: Sheet aluminum a. Standard: ASTM B 209, alloy 3003, prefinished 2-coat 70% fluoropolymer, 20 gauge (.0359 inch). 16. Metal: Extruded aluminum.
 - a. Standard: 6063-T52, prefinished 2-coat 70% Fluoropolymer, 0.080 inches for primary legs of extrusion 17. Flexible Sheet Membrane Flashing: Nonreinforced flexible black elastic sheet, 50 to 65 mils thick,
 - svnthetic rubber. 19. Elastic Expansion Joints: Factory-fabricated metal-flanged edges to fit curbs and curb substrate.
 - 20. Soffit Vents: Round prefinished metal vents to match existing; submit samples for review. 22. Auxiliary Materials:
 - a. Solder compatible with metal.
 - b. Bituminous isolation coating. c. Mastic and elastomeric sealants.
 - d. Epoxy seam sealer.
 - Rosin-sized building paper slip sheet. Polvethylene underlavment.
 - Reglets and metal accessories
 - . Gutter and conductor head guards.
- Asphaltic roofing cement. PART 3 EXECUTION
- 3.1 INSTALLATION
- A. Follow recommendations of SMACNA Sheet Metal Manual. Allow for expansion. Isolate dissimilar materials. B. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.
- C. Restore damaged components and finishes. Clean and protect work from damage.
- SECTION 07 92 00 JOINT SEALANTS
- PART 1 GENERAL
- 1.1 SUMMARY A. Provide joint sealers and fillers.
- 1.2 SUBMITTALS
- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product B. Samples: Submit two representative samples of each material specified indicating visual characteristics and
- finish. Include range samples if variation of finish is anticipated. 1. Include manufacturers full range of color and finish options if additional selection is required. **1.3 QUALITY ASSURANCE**
- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions. B. Field-Constructed Mock-Ups: Each joint type.
- PART 2 PRODUCTS 2.1 MATERIALS
- A. Exterior Joints in Vertical Surfaces, Silicone:
 - Manufacturers: Alcot Plastics Ltd.; Liquid Nails Brand; Sashco Sealants, Inc.; Schul International Company: Willseal LLC: or equivalent.
 - Materials: Two component silicone sealant. . Exterior Joints in Vertical Surfaces. Urethane:
 - 1. Manufacturers: Alcot Plastics Ltd.; Backer Rod Mfg. Inc.; Sashco Sealants, Inc.; Top Gun Brand; Willseal LLC: or equivalent.
- Materials: Two-component urethane sealant. C. Exterior Joints in Vertical Surfaces, Preformed Compression Seals:
- Manufacturers: Schul International Company; Willseal LLC; or equivalent.
- . Materials: Preformed precompressed foam sealant. D. Exterior Joints in Horizontal Surfaces, Urethane:
- 1. Manufacturers:Sashco Sealants, Inc.;Top Gun Brand;Willseal LLC; or equivalent
- 2. Materials: Self-leveling urethane sealant, ASTM C 920. E. Exterior Joints Immersed in Water, Polysulfide:
- . Manufacturers: Alcot Plastics Ltd.; Willseal LLC; or equivalent
- Materials: Two-part polysulfide, for water immersion, ASTM C 920.
- F. Exterior Paving Joint Fillers, Bituminous: 1. Manufacturers: Submit for review.
- 2. Materials: Bituminous fiber.
- G. Interior Joints, Sanitary Silicone:
- Manufacturers: Alcot Plastics Ltd.; Momentive Performance Materials; or equivalent. Materials: One-part mildew-resistant silicone sealant, ASTM C 920.
- PART 3 EXECUTION
- 3.1 INSTALLATION
- A. Examine substrate; report unsatisfactory conditions in writing. Beginning work means acceptance of substrates. B. Provide sealants in colors as selected from manufacturer's standards. C. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install
- materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections. Clean and prime joints, and install bond breakers, backer rods and sealant as recommended by manufacturers. D. Depth shall equal width up to 1/2 inch wide; depth shall equal 1/2 width for joints over 1/2 inch wide.

E. Cure and protect sealants as directed by manufacturers. Replace or restore damaged sealants. Clean adjacent surfaces to remove spillage.

SECTION 08 11 19 - STAINLESS STEEL DOORS AND FRAMES PART 1 GENERAL

1.1 SUMMARY

1.3 QUALITY ASSURANCE

PART 2 PRODUCTS

2.1 MATERIALS

C. Performance Standards:

A. Exterior Stainless Steel Doors:

5. Accessories:

B. Exterior Steel Frames:

a. Silencers.

4. Type: Welded.

A. Provide stainless steel doors and frames.

and relationship with adjacent construction.

in accordance with manufacturer's instructions.

1. Manufacturers: Ceco, or equivalent

4. Finish: No. 4 directional satin finish.

Manufacturers: Ceco, or equivalent.

5. Finish: No. 4 directional satin finish.

3. Corners: Mitered or coped.

2. Material: Minimum 16 gauge stainless steel sheet.

3. Door Thickness: 1-3/4 inches, thermally insulated.

. Material: Minimum 14 gauge stainless steel sheet.

1.2 SUBMITTALS A. Product Data: Submit manufacturer's product data and installation instructions for each material and product

B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections,

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been

in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials

B. Standards: ANSI/SDI-100, Recommended Specifications for Standard Steel Doors and Frames.

1. Fire-Rated Assemblies: NFPA 80, and acceptable testing agency listing.

Thermal-Rated Assemblies at Exterior: ASTM C 236 or ASTM C 976.

8. Sound-Rated Assemblies: ASTM E 1408, and ASTM E 413.

SECTION 087100 - DOOR HARDWARE

PART 1 - GENERAL 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section. 1.2 SUMMARY

A. This Section includes commercial door hardware for the following:

- Swinging doors. 2. Other doors to the extent indicated.
- B. Door hardware includes, but is not necessarily limited to, the following:
- Mechanical door hardware. Electromechanical door hardware.
- Cylinders specified for doors in other sections.
- C. Related Sections:
 - Division 06 Section "Rough Carpentry" Division 06 Section "Finish Carpentry"
 - Division 08 Section "Operations and Maintenance".
 - Division 08 Section "Hollow Metal Doors and Frames". Division 08 Section "Flush Wood Doors".
 - 6. Division 28 Section "Access Control".
- D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - ICC/IBC International Building Code.
 - 3. NFPA 70 National Electrical Code.
 - 4. NFPA 80 Fire Doors and Windows.
 - 5. NFPA 101 Life Safety Code. 6. NFPA 105 - Installation of Smoke Door Assemblies.
 - 7. State Building Codes, Local Amendments.
- E. Standards: All hardware specified herein shall comply with the following industry standards:
- 1. ANSI/BHMA Certified Product Standards A156 Series UL10C – Positive Pressure Fire Tests of Door Assemblies

1.3 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions,
- dimensions of individual components and profiles, operational descriptions and finishes.
- B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware. 1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
 - 2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission. 3. Content: Include the following information
 - a. Type, style, function, size, label, hand, and finish of each door hardware item.
 - b. Manufacturer of each item. c. Fastenings and other pertinent information.
 - d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
 - e. Explanation of abbreviations, symbols, and codes contained in schedule.
 - f. Mounting locations for door hardware.
 - g. Door and frame sizes and materials. Warranty information for each product.

4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule. C. Shop Drawings: Details of electrified access control hardware indicating the following:

- 1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following: a. Elevation diagram of each unique access controlled opening showing location and
 - interconnection of major system components with respect to their placement in the respective door openings b. Complete (risers, point-to-point) access control system block wiring diagrams. c. Wiring instructions for each electronic component scheduled herein.
- 2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings. D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule

detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores. E. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each

item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals 1.4 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage gualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

3. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and

D. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.

- 1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
- 2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

E. Each unit to bear third party permanent label demonstrating compliance with the referenced standards. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:

- . Function of building, purpose of each area and degree of security required. 2. Plans for existing and future key system expansion.
- Requirements for key control storage and software.
- Installation of permanent keys, cylinder cores and software.

5. Address and requirements for delivery of keys.

G. Pre-Submittal Conference: Conduct coordination conference in compliance with requirements in Division 01 Section "Project Meetings" with attendance by representatives of Supplier(s), Installer(s), and Contractor(s) to

review proper methods and the procedures for receiving, handling, and installing door hardware. 1. Prior to installation of door hardware, conduct a project specific training meeting to instruct the installing contractors' personnel on the proper installation and adjustment of their respective products.

- Product training to be attended by installers of door hardware (including electromechanical hardware) for
- aluminum, hollow metal and wood doors. Training will include the use of installation manuals, hardware schedules, templates and physical product samples as required. 2. Inspect and discuss electrical roughing-in, power supply connections, and other preparatory work performed by other trades.
- 3. Review sequence of operation narratives for each unique access controlled opening.
- 4. Review and finalize construction schedule and verify availability of materials.

5. Review the required inspecting, testing, commissioning, and demonstration procedures H. At completion of installation, provide written documentation that components were applied to manufacturer's instructions and recommendations and according to approved schedule. 1.5 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package. C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related

accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference". 1.6 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems. C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications. 17 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.



3003 Larimer Street Denver, Colorado 8020 phone 303.861.5704 www.ozarch.com



 \succ

∢

 \geq

Ο

 \mathcal{C}

 ∞

20

FO

 $\triangleleft C$

Ш

Ζ

O

 O

Ζ

Ш

M

C

 \square

Ο Ľ \mathbf{O} \mathbf{O} . . . Ľ N \sim (\mathbf{O}) S Ŷ 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: PROJECT SPECIFICATIONS

SCALE: SHEET NUMBER

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of Acceptable Manufacturers: standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following: b. Trimco (TC). 1. Structural failures including excessive deflection, cracking, or breakage. 2.8 DOOR STOPS AND HOLDERS 2. Faulty operation of the hardware. Deterioration of metals, metal finishes, and other materials beyond normal weathering. 4. Electrical component defects and failures within the systems operation. C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated D. Special Warranty Periods: required for proper operation and function. 1. Ten years for mortise locks and latches. 1. Acceptable Manufacturers: Five years for exit hardware. a. Rixson Door Controls (RF). Twenty five years for manual surface door closer bodies. b. Sargent Manufacturing (SA). 4. Five years for motorized electric latch retraction exit devices. 2.9 ARCHITECTURAL SEALS 5. Two years for electromechanical door hardware. **1.8 MAINTENANCE SERVICE** A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware. PART 2 - PRODUCTS 2.1 SCHEDULED DOOR HARDWARE according to UL 1784. A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under. B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive gualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows: D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings 1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door indicated. hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule. readily available from stocks maintained by manufacturer. C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical F. Acceptable Manufacturers: door hardware in compliance with the specifications must be submitted in writing and in accordance with the National Guard Products (NG). procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants. 2.10 FABRICATION 2.2 HANGING DEVICES A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles as specified in the Door Hardware Sets. application intended. 1. Quantity: Provide the following hinge quantity, unless otherwise indicated: 2.11 FINISHES a. Two Hinges: For doors with heights up to 60 inches. Three Hinges: For doors with heights 61 to 90 inches. ANSI/BHMA A156.18, including coordination with traditional U.S. finishes indicated by certain manufacturers for their Four Hinges: For doors with heights 91 to 120 inches. products d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches. 2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door units of hardware thickness and clearances required: a. Widths up to 3'0": 4-1/2" standard or heavy weight as specified. before shipping. b. Sizes from 3'1" to 4'0": 5" standard or heavy weight as specified. PART 3 - EXECUTION 3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following: 3.1 EXAMINATION a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight. b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight. hardware. Proceed only after such discrepancies or conflicts have been resolved in writing. 4. Hinge Options: Comply with the following: 3.2 PREPARATION a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series. in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable B. Wood Doors: Comply with ANSI/DHI A115-W series. doors 3.3 INSTALLATION 5. Acceptable Manufacturers: a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK). manufacturer's written instructions and according to specifications. 2.3 CYLINDERS AND KEYING A. General: Cylinder manufacturer to have minimum (10) years experience designing secured master key systems and have on record a published security keying system policy. B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as specifically indicated or required to comply with governing regulations: locksets and exit devices, unless otherwise indicated. C. Cylinders: Original manufacturer cylinders complying with the following: Steel Doors and Frames. Mortise Type: Threaded cylinders with rings and cams to suit hardware application. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring. Bored-Lock Type: Cylinders with tailpieces to suit locks. for Buildings and Facilities. 4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where 5. Keyway: Manufacturer's Standard. Acceptable Manufacturers: a. Sargent (SA) – (Confirm and match facilities standard). D. Keying System: Each type of lock and cylinders to be factory keyed. 1. Conduct specified "Keying Conference" to define and document keying system instructions and specified in Division 7 Section "Joint Sealants." requirements. 2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner. installation 3. Existing System: Key locks to a new key system as directed by the Owner. 3.4 FIELD QUALITY CONTROL E. Key Quantity: Provide the following minimum number of keys: 1. Change Keys per Cylinder: Two (2) Master Keys (per Master Key Level/Group): Five (5). adjusted. Construction Keys (where required): Ten (10). 3.5 ADJUSTING 2.4 MECHANICAL LOCKS AND LATCHING DEVICES A. Mortise Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.13, Series 1000, Operational Grade 1 certified. Locksets are to be manufactured with a corrosion resistant steel case and be field-reversible for handing without disassembly of the lock body. requirements. 1. Mortise locks to be certified Security Grade 1. 3.6 CLEANING AND PROTECTION 2. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA 156.13 requirements to 10 million cycles. 3. Acceptable Manufacturers: B. Clean adjacent surfaces soiled by door hardware installation a. Sargent Manufacturing (SA) – 8200 Series. 2.5 LOCK AND LATCH STRIKES ensure door hardware is without damage or deterioration at time of owner occupancy. A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip 3.7 DEMONSTRATION extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows: A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door 1. Flat-Lip Strikes: For locks with three-piece antifriction latchbolts, as recommended by manufacturer. hardware. 2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim. 3.8 DOOR HARDWARE SETS Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum 4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications. hardware set should be scheduled with the appropriate additional hardware required for proper application and B. Standards: Comply with the following: functionality. Strikes for Mortise Locks and Latches: BHMA A156.13. B. Manufacturer's Abbreviations: Strikes for Bored Locks and Latches: BHMA A156.2. Strikes for Auxiliary Deadlocks: BHMA A156.36. 1. MK - McKinney 4. Dustproof Strikes: BHMA A156.16. 2. RO - Rockwood 2.6 DOOR CLOSERS 3. SA - Sargent A. All door closers specified herein shall meet or exceed the following criteria: 4. NO - Norton 1. General: Door closers to be from one manufacturer, matching in design and style, with the same type 5. RF - Rixson door preparations and templates regardless of application or spring size. Closers to be non-handed with 7. PE - Pemko full sized covers including installation and adjusting information on inside of cover. 8. OT - OTHER 2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of 9. HS - HES fire rated doors. 3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified C. Hardware Schedule Notes: 4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with contractor, general contractor, electrical contractor, and architect. ANSI ICC/A117.1 5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise indicated in Hardware 6. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics. 7. Closer Accessories: Provide door closer accessories including custom templates, special mounting Hardware Set: 1.0 brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type (all finishes to be oil rubbed bronze to match existing) fasteners as specified in the hardware sets. B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty 3 Hinge (heavy weight) T4A3386 (NRP) door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to Storeroom Lock 8204 LNL door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum Match Existing Mortise Cylinder alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch Cylindrical Deadbolt 486 speed control. Provide non-handed units standard. Electric Strike 1006 Acceptable Manufacturers: 1 Door Closer (P) 7500 a. Sargent Manufacturing (SA) - 351 Series. Kick Plate 2.7 ARCHITECTURAL TRIM Mop Plate A. Door Protective Trim Overhead Stop 1. General: Door protective trim units to be of type and design as specified below or in the Hardware Threshold Sets. 1 Weatherstrip 2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on 315CN X L.A.R. Sweep stop side of single doors and 1" LDW on stop side of pairs of doors, and not more than 1" less than door 1 Rain Guard 346C X L.A.R. width on pull side. Coordinate and provide proper width and height as required where conflicting hardware 1 Timer/Controller PT724A dictates. Height to be as specified in the Hardware Sets. I SmartPac Rectifier 2005 3. Where plates are applied to fire rated doors with the top of the plate more than 16" above the bottom 1 Power Supply of the door, provide plates complying with NFPA 80. Consult manufacturer's catalog and template book for specific requirements for size and applications 4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following: a. Stainless Steel: 300 grade, 050-inch thick. 5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.

a. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets. B. Overhead Door Stops and Holders: ANSI/BHMA A156.6, Grade 1 certified overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated. B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing

Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C. 1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and

Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with

- B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities
- complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance. B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with

Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals. B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless

Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard

2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors." 3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines

4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved. D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after

A. Field Inspection: Supplier will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating and

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a

Verify and match Owner's existing standard Sargent key system

Provide special template layout with overhead stops and closers, continuous hinges, pivots, etc. as required. 3. Hardware supplier shall coordinate hardware requirements and door and frame preparation with security

4. Per Part 2 – Products of this specification section: Provide non-removable pin (NRP) feature for hinges at outswinging, lockable doors as required; provide proper closer arm for installation with optimum aesthetics, in general regular arm for inswinging doors and parallel arm for outswinging doors, unless otherwise noted. . Provide thresholds as scheduled or otherwise noted or detailed on the architectural drawings.

6. Mount kick plates to align bottom of plate with bottom of door.

SA

SA

SA

HS

NO

RO

RO

PE

OT

HS

OT

K1050 10" X 2" L.D.W. 4BE CSK K1050 6" X 1" L.D.W. 4BE CSK 1-X36 (size as required) 272A X Pemkote X L.A.R. 303AS @ Head & Jambs

SECTION 09 21 16 - GYPSUM BOARD ASSEMBLIES PART 1 GENERAL

- 1.1 SUMMARY A. Provide gypsum board assemblies.
- 1.2 SUBMITTALS A. Product Data: Submit manufacturer's product data and installation instructions for each material and product
- 1.3 QUALITY ASSURANCE A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- B. Tolerances: Not more than 1/16-inch difference in true plane at joints between adjacent boards before finishing. After finishing, joints shall be not be visible. Not more than 1/8 inch in 10 feet deviation from true plane, plumb, level and proper relation to adjacent surfaces in finished work. C. Fire Resistance for Fire-Rated Assemblies: ASTM E 119.
- . Mock-Ups: Provide mock-up as required to demonstrate quality of workmanship and level of finish.
- E. Performance: Fire, structural, and seismic performance meeting requirements of building code and local authorities.
- PART 2 PRODUCTS 2.1 MATERIALS
- A. Gypsum Board:
 - Manufacturers: PABCO Gypsum; USG; National Gypsum, or equivalent. . Basis of Design: National Gypsum, Gold Bond Hi-Abuse XP Gypsum Board.
 - . Application: Interior walls, partitions, and ceilings with tape and joint compound finish.
 - . Application: Insulation and vapor barrier systems in gypsum board assemblies. Material Standard: ASTM C1396.
 - 6. Type: Moisture and Abuse-resistant board.
 - b. Typical Thickness: 5/8 inch.
 - 7. Joint Treatment: ASTM C474 and ASTM C840, 3-coat system, paper or fiberglass tape. 8. Auxiliary Materials:
 - a. Cornerbead, edge trim and control joints.
 - Extruded aluminum reveals and channels. Gypsum board screws, ASTM C 1002.
 - d. Gypsum board nails, ASTM C 514.
 - e. Fastening adhesive.
 - Concealed acoustical sealant. Mineral fiber sound attenuation blankets.
 - Mineral fiber thermal insulation.
 - Polyethylene vapor retarder, 6 mils Polystyrene aggregated finish for ceilings.
 - Acoustical finish.
- PART 3 EXECUTION 3.1 INSTALLATION
- A. Install gypsum board for tape and 3-coat joint compound finish in compliance with ASTM C 840 and GA 216, Level 4 finish. Install gypsum board assemblies true, plumb, level and in proper relation to adjacent surfaces.
- B. Provide fire-rated systems where indicated and where required by authorities having jurisdiction.
- . Install boards vertically. Do not allow butt-to-butt joints and joints that do not fall over framing members.
- . Where new partitions meet existing construction, remove existing cornerbeads to provide a smooth transition. E. Provide insulation full height and thickness in partitions at conference rooms, toilet rooms, between different
- occupancies, and where required.
- F. Provide acoustical sealant at both faces at top and bottom runner tracks, wall perimeters, openings, expansion and control joints.
- G. Install trim in strict compliance with manufacturer's instructions and recommendations.
- H. Repair surface defects. Leave ready for finish painting or wall treatment.

SECTION 09 67 00 - FLUID - APPLIED FLOORING PART 1 GENERAL

1.1 SUMMARY

- A. Provide fluid-applied flooring and floor preparation. 1.2 SUBMITTALS
- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product B. Samples: Submit two representative samples of each material specified indicating visual characteristics and
- finish. Include range samples if variation of finish is anticipated. 1.3 QUALITY ASSURANCE
- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- PART 2 PRODUCTS 2.1 MATERIALS
- A. Fluid Applied Flooring:
 - 1. Manufacturer: Stonhard
 - Type: Stonshield SLT, and all manufacturer recommended products including but not limited to primer, broadcast media, undercoat and sealer. 3. Surface: Slip-resistant surface. Provide "Standard" texture.
- PART 3 EXECUTION
- 3.1 INSTALLATION

A. Prepare surfaces and install materials and systems in accordance with manufacturer's instructions and approved submittals B. Install materials and systems in proper relation with adjacent construction and with uniform appearance.

Coordinate with work of other sections C. Restore damaged finishes. Clean and protect work from damage.

SECTION 09 77 00 - SPECIAL WALL AND CEILING FINISHES

PART 1 GENERAL

- 1.1 SUMMARY
- Provide interior special wall and ceiling surfaces. 1.2 SUBMITTALS
- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product
- B. Samples: Submit two representative samples of each material specified indicating visual characteristics and
- 1.3 QUALITY ASSURANCE A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been in
- satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- B. Performance: Fire performance meeting requirements of building code and local authorities. PART 2 PRODUCTS

2.1 MATERIALS

3.1 INSTALLATION

work of other sections.

SECTION 09 91 00 - PAINTING

PART 1 GENERAL

1.3 QUALITY ASSURANCE

1.1 SUMMARY

1.2 SUBMITTALS

- A. Fiberglass reinforced thermosetting polyester resin panel sheets complying with ASTM D 5319.
- 1. Manufacturers: Marlite . Coating: Multi-layer print, primer and finish coats or applied over-layer.
- Dimensions:
- a. Thickness 0.090 " (2.29mm) nominal b. Width - 4'-0" (1.22m) nominal
- c. Length [10'-0" (3.0m)][8'-0" (2.4m)][As indicated on the drawings] nominal
- 4. Tolerance: a. Length and Width: +/-1/8 " (3.175mm)
- b. Square Not to exceed 1/8 " for 8 foot (2.4m) panels or 5/32 " (3.96mm) for 10 foot (2.4m) panels 5. Auxiliary Materials:

A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install

B. Replace damaged work which cannot be repaired. Clean and protect work from damage.

C. Extra Stock: Submit 2 unopened gallons of each paint and color used in the project.

Mock-Ups: Provide mock-up as required to demonstrate quality of workmanship.

materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with

A. Product Data: Submit manufacturer's product data and installation instructions for each material and product

B. Samples: Submit two representative samples of each material specified indicating visual characteristics and

1. Include manufacturers full range of color and finish options if additional selection is required.

A. Comply with governing codes and regulations. Provide products of acceptable manufacturers, which have been

in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials

- a. J-channels. b. Reveal moldings.
- c. Battens. PART 3 EXECUTION

A. Provide painting and surface preparation.

in accordance with manufacturer's instructions.

Provide 4 foot x 4 foot mock-ups of each type of surface.

finish. Include range samples if variation of finish is anticipated.

B. Regulations: Compliance with VOC and environmental regulations.



A. Painting:

- 1. Manufacturers: Behr Process Corporation; Benjamin Moore & Co. (United States); Sherwin-Williams, or similar as approved by owner and operations team.
- Application: Interior unfinished surfaces.
- Application: Exterior unfinished surfaces.
- Application: Exposed mechanical and electrical items 5. Application: Repainting of existing surfaces.
- Primary Coating Type: Oil based paints.
- Primary Coating Type: Latex based paints Primary Coating Type: Zero VOC paints.
- 9. Primary Paint Systems: Primer plus two finish coats.

PART 3 EXECUTION 3.1 INSTALLATION

A. Inspect surfaces, report unsatisfactory conditions in writing; beginning work means acceptance of

substrate.

B. Comply with manufacturer's instructions and recommendations for preparation, priming and coating work. Coordinate with work of other sections.

C. At existing areas to be repainted, remove blistered or peeling paint to sound substrates. Remove chalk deposits and mildew and wash all surfaces with mild detergent. Perform related minor preparation including caulk and glazing compounds. Spot prime bare areas before priming and painting as specified.

D. Match approved mock-ups for color, texture, and pattern. Re-coat or remove and replace work which does not match or shows loss of adhesion. Clean up, touch up and protect work. 3.2 PAINT SCHEDULE

B. Gypsum Drywall Walls and Ceilings in Bathrooms, Kitchens and Wet Areas:

1. Gloss: a. Semi

- b. High
- 2. Texture:
- a. Smooth 3. System:
- a. 1 coat latex primer
- b. 1 coat latex finish
- c. 2 coats latex finish d. 1 coat alkyd finish
- e. 2 coats alkyd finish
- J. Exterior Wood for Stain Finish:
 - 1. System: a. 1 coat semi-transparent stain, oil or alkyd resin base
 - b. 2 coats semi-transparent stain, oil or alkyd resin base
 - 1 coat solid color stain, oil or alkyd resin base d. 2 coats solid color stain, oil or alkyd resin base

SECTION 10 21 13 - TOILET COMPARTMENTS

PART 1 GENERAL

1.1 SUMMARY

A. Provide toilet partitions and screens. 1.2 SUBMITTALS

- A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.
- B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction, connections, and relationship with adjacent construction.
- C. Samples: Submit two representative samples of each material specified indicating visual characteristics and finish. Include range samples if variation of finish is anticipated. 1.3 QUALITY ASSURANCE
- A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- PART 2 PRODUCTS
- 2.1 MATERIALS
- A. Toilet Compartments:
 - Compartments: Floor-anchored, overhead braced. Screens: Floor-anchored.
 - Style: Standard privacy style
 - Material: Stainless steel.
 - a. ASTM A 666, Type 304 stainless steel, No. 4 bright, directional polish.
- PART 3 EXECUTION 3.1 INSTALLATION

A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance. Coordinate with work of other sections.

- B. Limit openings between panels, doors and pilasters to less than 1/2".
- C. Adjust hardware, clean, and protect work.

SECTION 10 21 13 - TOILET COMPARTMENTS 1 GENERAL

1.1 SUMMAR

A. Provide toilet partitions and screens.

1.2 SUBMITTALS A. Product Data: Submit manufacturer's product data and installation instructions for each material and product used.

B. Shop Drawings: Submit shop drawings indicating material characteristics, details of construction. connections, and relationship with adjacent construction.

- C. Samples: Submit two representative samples of each material specified indicating visual characteristics and finish. Include range samples if variation of finish is anticipated.
- 1.3 QUALITY ASSURANCE A. Comply with governing codes and regulations. Provide products of acceptable manufacturers which have been in satisfactory use in similar service for three years. Use experienced installers. Deliver, handle, and store materials in accordance with manufacturer's instructions.
- PART 2 PRODUCTS 2.1 MATERIALS
- A. Toilet Compartments:
 - Compartments: Floor-anchored, overhead braced.
 - Screens: Floor-anchored.
 - Style: Standard privacy style
 - 4. Material: Stainless steel.
 - a. ASTM A 666, Type 304 stainless steel, No. 4 bright, directional polish.

PART 3 EXECUTION 3.1 INSTALLATION

A. Install materials and systems in accordance with manufacturer's instructions and approved submittals. Install materials and systems in proper relation with adjacent construction and with uniform appearance.

- Coordinate with work of other sections.
- B. Limit openings between panels, doors and pilasters to less than 1/2". C. Adjust hardware, clean, and protect work.



3003 Larimer Street Denver, Colorado 8020 phone 303.861.5704 www.ozarch.com



O

0

Ζ

Ш

N

C

 \square

S

Ľ

८ 0

FO

 ∞

 \odot

n

 \mathbf{M}

Ο

M

Ľ

N

 (\mathbf{O})

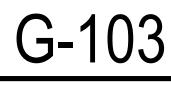
PROJ. NO. 117119.00 DRAWN: OZ CHECKED: OZ APPROVED: OZ DATE: 2018-04-27

© OZ ARCHITECTURE

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

SHEET TITLE: PROJECT SPECIFICATIONS

SCALE: SHEET NUMBER



Dealers	ermetic -							20 E	Energy Co ments: 100.0% we
Project Inf Energy Code:		90.1 (2010) Standa						Text in t requiren	he "Comments/Assur nent, the user certifie
Project Title: Location:		Frisco Restroom A Frisco, Colorado						is being Section	claimed. Where com
Climate Zone: Project Type:		7 Addition						# & Req.ID	Plan Re
Construction 5 621 Recrea Frisco, CO	ation Way	Owner/Agent: Town of Frisc 1 Main Street Frisco, CO 80		. OZ 30	gner/Contrac Architectur 03 Larimer S nver, CO 80	e Street		4.2.2,5.4, 3.1.1,5.7 [PR1] ¹	
Building A	Area	11300, CO 80		Area				4.2.2,8.4. 1.1,8.4.1. 2,8.7	
1-Restroom	Addition Only (Office) : Nor	nresidential		178				[PR6] ²	determined for the el and equipment and c exceptions are claim
Envelope /	Assemblies			0. 10 					connectors sized in a approved plans and b sized for maximum d
	Assembly		Gross Area or Perimeter	R-Value	Cont. R-Value	Proposed U-Factor	Budget U- Factor _(a)	Addition	al Comments/Assu
Roof 1: Attic I Only]	Roof with Wood Joists, [Bldg. U	lse 1 - Restroom Addit	ion 200	49.0	0.0	0.021	0.027		
Addition Only	REALIZED TO DOB IN MANAGE AND	07 10707 54 12712 128257	408	25.0	0.0	0.057	0.051		
Only] Floor 1: Slab-	ated Metal, Swinging, [Bldg. Use On-Grade:Unheated, Vertical 3		on 42 42		10.0	0.300	0.500		
Restroom Ade (a) Budget	dition Only] (b) t U-factors are used for software	e baseline calculations	ONLY, and are not co			ng paga na mang kang sa			
(b) Slab-O	n-Grade proposed and budget PASSES: Design 7% bet	U-factors shown in tab		51					
	Compliance Statement								
specification designed to	Statement: The proposed e s, and other calculations su meet the 90.1 (2010) Stand equirements listed in the In	Ibmitted with this po dard requirements in	ermit application. Th n COM <i>check</i> Versior	4.0.8.1 and	envelope sylic to comply	stems have b	been		
	becca Stone, AIA		Peteren	Ston	/	4/27/18 Date			
	REBECCA STONE HUB3452	L'S							
	CHVSED ARCH	4/27/18							1 High
Project Title:	Frisco Restroom Additio ne: C:\Users\ksaylor\Deskto	n	cek				iate: 04/26/18 ge 1 of 9	Project Tit	Long Long Long Long Long Long Long Long
Section #	Rough-In Electrical Ins	spection Con	nplies?	C	omments/#	ssumptions		Section #	Insulation Ins
# & Req.ID 8.4.2 [EL10] ²	Rough-In Electrical Ins At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does	olies Excepti	210	ype is not p		open office, or		All sources of air leak building thermal envisealed, caulked, gasl
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.ID 5.4.3.1	All sources of air leak building thermal envi sealed, caulked, gask weather stripped or v moisture vapor-perm wrapping material to
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.ID 5.4.3.1	All sources of air leak building thermal envi- sealed, caulked, gask weather stripped or v moisture vapor-perm wrapping material to leakage. Roof R-value. For son systems, verification
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.IE 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5.	All sources of air leak building thermal envi- sealed, caulked, gask weather stripped or v moisture vapor-perm wrapping material to leakage. Roof R-value. For sor systems, verification occur during Framing
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.II 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹	All sources of air leak building thermal envi- sealed, caulked, gask weather stripped or v moisture vapor-perm wrapping material to leakage. Roof R-value. For sor systems, verification occur during Framing Roof insulation instal manufacturer's instral Blown or poured loos insulation is installed
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.II 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹ 5.5.3.2	Insulation Insp All sources of air leak building thermal envy sealed, caulked, gask weather stripped or v moisture vapor-perm wrapping material to leakage. Roof R-value. For sor systems, verification occur during Framing Blown or poured loos insulation is installed the roof slope is <=3
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.II 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹	Insulation Insp All sources of air lead building thermal env sealed, caulked, gasl weather stripped or v moisture vapor-perm wrapping material to leakage. Roof R-value. For sor systems, verification occur during Framing Blown or poured loos insulation is installed the roof slope is <=3
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.II 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹ 5.5.3.2	Insulation Insp All sources of air leak building thermal envise sealed, caulked, gask weather stripped or v moisture vapor-perm wrapping material to leakage. Roof R-value. For son systems, verification occur during Framing Blown or poured loos insulation is installed the roof slope is <=3
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.II 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹ 5.5.3.2 [IN6] ¹ 5.8.1.2	Insulation Insulation All sources of air leak building thermal envises ealed, caulked, gask weather stripped or work weather stripped or work wapping material to leak age. Roof R-value. For sor systems, verification occur during Framing Roof insulation instal manufacturer's instrubility is insulation is installed the roof slope is <= 3
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.II 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹ 5.5.3.2 [IN6] ¹ 5.8.1.2 [IN7] ¹ 5.5.3.4	Insulation Insulation All sources of air leak building thermal envises ealed, caulked, gask weather stripped or work weather stripped or work wapping material to leak age. Roof R-value. For sor systems, verification occur during Framing Roof insulation instal manufacturer's instrubility is insulation is installed the roof slope is <= 3
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.II 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹ 5.5.3.2 [IN6] ¹ 5.8.1.2 [IN7] ¹ 5.5.3.4	Insulation Insulation All sources of air leak building thermal envises ealed, caulked, gask weather stripped or work was building thermal envises and the stripped or work was building thermal envises and the stripped or work was building thermal envises. Roof R-value. For sor systems, verification occur during Framing Roof insulation instal manufacturer's instrubiled the roof slope is <= 3
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.II 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹ 5.5.3.2 [IN6] ¹ 5.8.1.2 5.8.1.2 [IN7] ¹ 5.5.3.4 [IN8] ² 5.8.1.1 5.8.1.1	Insulation Insulation All sources of air leak building thermal envises sealed, caulked, gask weather stripped or v moisture vapor-perm wrapping material to leakage. Roof R-value. For son systems, verification occur during Framing Bown or poured loos insulation is installed the roof slope is <=3
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.II 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹ 5.5.3.2 [IN6] ¹ 5.8.1.2 5.8.1.2 [IN6] ¹ 5.8.1.2 5.8.1.2 [IN7] ¹ 5.5.3.4 [IN8] ² 5.8.1.1 [IN10] ² 5.8.1.4	Insulation Insp All sources of air leak building thermal envises sealed, caulked, gask weather stripped or v moisture vapor-perm wrapping material to leakage. Roof R-value. For son systems, verification occur during Framing Bown or poured loos insulation is installed the roof slope is <=3
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.II 5.4.3.1 [IN1] ¹ 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹ 5.5.3.2 [IN6] ¹ 5.8.1.2 5.8.1.2 [IN7] ¹ 5.5.3.4 [IN8] ² 5.8.1.1 [IN10] ² 5.8.1.4 [IN11] ² 5.8.1.5 5.8.1.5	Insulation Insp All sources of air leak building thermal envise sealed, caulked, gask weather stripped or v moisture vapor-perm wrapping material to leakage. Roof R-value. For son systems, verification occur during Framing Roof insulation instal manufacturer's instru- Blown or poured loos insulation is installed the roof slope is <=3
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are con an automatic control device	15- and Comp ntrolled by Does Not C	olies Excepti Not compute	on: Space t	ype is not p			# & Req.IE 5.4.3.1 [IN1] ¹ 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹ 5.5.3.2 [IN6] ¹ 5.8.1.2 5.8.1.2 [IN7] ¹ 5.5.3.4 [IN8] ² 5.8.1.1 [IN10] ² 5.8.1.4 [IN11] ² 5.8.1.5 [IN12] ² 5.8.1.6 5.8.1.6	Insulation Insp All sources of air leak building thermal envises sealed, caulked, gask weather stripped or v moisture vapor-perm wrapping material to leakage. Roof R-value. For son systems, verification occur during Framing Boor insulation instal manufacturer's instruction Blown or poured loos insulation is installed the roof slope is <=3
# & Req.ID 8.4.2 [EL10] ²	At least 50% of all 125 volt 20-Amp receptacles are contant automatic control device I Comments/Assumpti	15- and Comp Does Not C Not A	olies Excepti Not compute	on: Space t	ype is not p	Tier 3)		# & Req.IE 5.4.3.1 [IN1] ¹ 5.4.3.1 [IN1] ¹ 5.5.3.1 [IN2] ¹ 5.8.1.2,5. 8.1.3 [IN3] ¹ 5.5.3.2 [IN6] ¹ 5.8.1.2 5.8.1.2 [IN7] ¹ 5.5.3.4 [IN8] ² 5.8.1.1 [IN10] ² 5.8.1.4 [IN11] ² 5.8.1.5 [IN12] ² 5.8.1.6 5.8.1.6	Insulation Insp All sources of air leak building thermal envi- sealed, caulked, gask weather stripped or vi- moisture vapor-permi- wrapping material to leakage. Roof R-value. For son systems, verification occur during Framing Roof insulation instal manufacturer's instru- Blown or poured loos insulation is installed the roof slope is <=3

oftware Version 4.0.8.1

ion Checklist

0.1 (2010) Standard

essed directly in the COMcheck software

column is provided by the user in the COMcheck Requirements screen. For each code requirement will be met and how that is documented, or that an exception s itemized in a separate table, a reference to that table is provided.

	Complies?	Comments/Assumptions	
ovide all iance ilding e e	Complies Does Not Not Observable Not Applicable	Requirement will be met.	
nation systems t where er ce with rcuits %.	Complies Does Not Not Observable Not Applicable	Requirement will be met.	

Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.5.3.3 [FO1] ²	Below-grade wall insulation R- value.	R	R	Complies Does Not	See the Envelope Assemblies table for values.
				□Not Observable □Not Applicable	
5.5.3.5 [FO3] ²	Slab edge insulation R-value.	R Unheated	R Unheated	Complies Does Not	See the Envelope Assemblies table for values.
		Heated	Heated	□Not Observable □Not Applicable	
5.8.1.2 [FO4] ²	Slab edge insulation installed per manufacturer's instructions.			Complies Does Not	Requirement will be met.
				□Not Observable □Not Applicable	
5.5.3.5 [FO5] ²	Slab edge insulation depth/length.	ft	ft	Complies Does Not	See the Envelope Assemblies table for values.
				□Not Observable □Not Applicable	
5.8.1.7.3 [FO7] ¹	Insulation in contact with the ground has <=0.3% water			Complies Does Not	Requirement will be met.
	absorption rate per ASTM C272.			□Not Observable □Not Applicable	
6.4.4.1.5 [FO11] ³	Bottom surface of floor structures incorporating radiant heating	R	R	Complies Does Not	Exception: Requirement does not apply.
	insulated to >=R-3.5.			□Not Observable □Not Applicable	See the Envelope Assemblies table for values.

Additional Comments/Assumptions:

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

risco Comcheck.cck

Report date: 04/26/18 Page 2 of 9

 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)
 Project Title: Frisco Restroom Addition

Data filename: C:\Users\ksaylor\Desktop\Frisco Comcheck.cck

Report date: 04/26/18 Page 3 of 9

	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
ne 9			Complies Does Not	Requirement will be met.
with			□Not Observable □Not Applicable	4
e air				
d to ion.	R Above deck Metal Attic	R Above deck Metal Attic	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
ere		1	Complies Does Not Not Observable Not Applicable	Requirement will be met.
	R Mass Metal Steel Wood	R Mass Metal Steel Wood	Complies Does Not Not Observable Not Applicable	See the Envelope Assemblies table for values.
			Complies Does Not Not Observable Not Applicable	Requirement will be met.
	R Mass Steel Wood	R Mass Steel Wood	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
s tion and			Complies Does Not Not Observable Not Applicable	Requirement will be met.
ir to			Complies Does Not Not Observable Not Applicable	Requirement will be met.
			Complies Does Not Not Observable Not Applicable	Requirement will be met.
l in			Complies Does Not	Requirement will be met.
ent			□Not Observable □Not Applicable	

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7 [IN14] ²	Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.			Complies Does Not Not Observable Not Applicable	Requirement will be met.
5.8.1.7.1 [IN15] ²	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			Complies Does Not Not Observable Not Applicable	Requirement will be met.
5.8.1.7.2 [IN16] ²	Foundation vents do not interfere with insulation.			Complies Does Not Not Observable Not Applicable	Requirement will be met.
5.8.1.8 [IN17] ³	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.			Complies Does Not Not Observable Not Applicable	Requirement will be met.

Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Report date: 04/26/18 Frisco Comcheck.cck Page 6 of 9 1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Frisco Restroom Addition Data filename: C:\Users\ksaylor\Desktop\Frisco Comcheck.cck Report date: 04/26/18 Page 7 of 9

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1] ³	Factory-built fenestration and doors are labeled as meeting air			Complies Does Not	Requirement will be met.
	leakage requirements.			□Not Observable □Not Applicable	
5.5.4.3a [FR8] ¹	Vertical fenestration U-Factor.	U	U	Complies Does Not	See the Envelope Assemblies table for values.
				□Not Observable □Not Applicable	
5.5.4.3b [FR9] ¹	Skylight fenestration U-Factor.	U	U	Complies Does Not	See the Envelope Assemblies table for values.
				□Not Observable □Not Applicable	2
5.5.4.4.1 [FR10] ¹	Vertical fenestration SHGC value.	SHGC:	SHGC:	Complies Does Not	See the Envelope Assemblies table for values.
				□Not Observable □Not Applicable	
5.5.4.4.2 [FR11] ¹	Skylight SHGC value.	SHGC:	SHGC:	Complies Does Not	See the Envelope Assemblies table for values.
				□Not Observable □Not Applicable	
5.8.2.1 [FR12] ²	Fenestration products rated in accordance with NFRC.			Complies Does Not	Requirement will be met.
				□Not Observable □Not Applicable	
5.8.2.2 [FR13] ¹	Fenestration products are certified as to performance labels			Complies Does Not	Requirement will be met.
	or certificates provided.			□Not Observable □Not Applicable	
5.8.2.3,5. 5.3.6	U-factor of opaque doors associated with the building	U U Swinging	U U Swinging	Complies Does Not	See the Envelope Assemblies table for values.
[FR14] ²	thermal envelope meets requirements.	Nonswinging	Nonswinging	□Not Observable □Not Applicable	
5.4.3.1 [FR15] ¹	Continuous air barrier is wrapped, sealed, caulked,			Complies Does Not	Requirement will be met.
	gasketed, and/or taped in an approved manner, except in semiheated spaces and in climate zones 1-6.			Not Observable	

	1 High Impact (Tier 1)	2 Medium Impact (Tier 2)	3 Low Impact (Tier 3)		
Project Title:	Frisco Restroom Addition		Repor	t date: 0	4/26/
Data filename:	C:\Users\ksaylor\Desktop\Frisco Co	mcheck.cck	F	Page 4	4 of

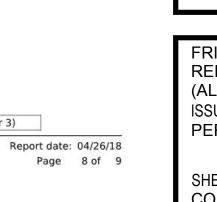
Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
[FI1] ¹	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-	□Complies □Does Not	Exception: Requirement does not apply.
	8.	□Not Observable □Not Applicable	

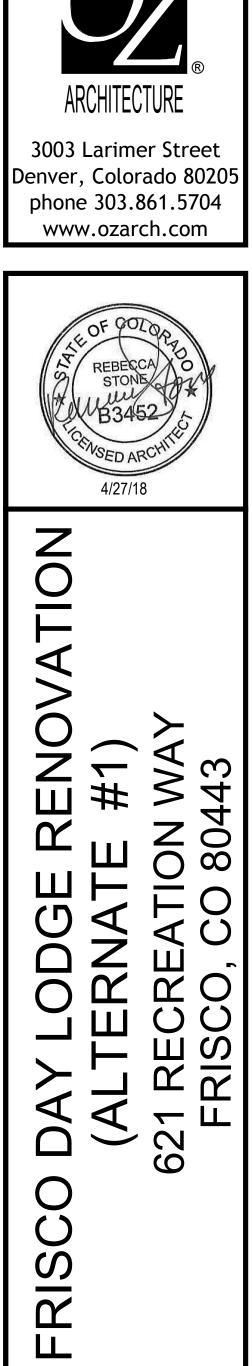
Additional Comments/Assumptions:

Additional Comments/Assumptions:



Project Title: Frisco Restroom Addition Data filename: C:\Users\ksaylor\Desktop\Frisco Comcheck.cck





PROJ. NO.	117119.00
DRAWN:	OZ
CHECKED:	OZ
APPROVED	: OZ
DATE:	2018-04-27
© OZ ARCH	ITECTURE
FRISCO D	AY LODGE

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

Sheet Title: Comcheck Report

SCALE: SHEET NUMBER

G-120

					316		'E SCHEDULE			
SIGN DESIGN ATION	SIGN TYPE	LOCATION	CODE REFERENCE	VISUAL CHARACTERS	TACTILE	BRAILLE	PICTOGRAM	INT'L SYMBOL OF ACCESSIBILITY	PLACEMENT	COMMENTS
				1				1		
A	TOILET ROOM	ACCESSIBLE TOILET ROOMS	IBC 2902.4 & 1110			YES	YES	YES		
В	TACTILE EXIT	DOORS AT: EXTERIOR EXIT DOORS, EXIT STAIRS & RAMPS, EXIT PASSAGEWAYS, AREAS OF REFUGE, AND EXTERIOR AREAS FOR RESCUE ASSISTANCE	IBC 1011.4	YES	YES	YES	NO	NO		
С	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
Н	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	
К	AREA OF REFUGE	AREAS OF REFUGE & EXTERIOR AREAS FOR EVACUATION ASSISTANCE	IBC 1007.9 & 1007.10	YES	NO	NO	NO		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
Μ	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		POST OR BUILDING-MOUNTED CENTERED ON PARKING SPACE, 5'-0" TO BOTTOM OF SIGN	
0	ACCESSIBLE PARKING PAVEMENT MARKING	ACCESSIBLE PARKING STALLS	NA	YES	NO	NO	NO	YES	CENTERED ON PARKING STALL, ALIGNED WITH FRONT	NOT REQUIRED BY CODE
Р	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:

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

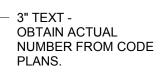
6. MOUNT SIGNS 1'-6" FROM LATCH-SIDE DOOR JAMB TO CENTER OF SIGN UNLESS OTHERWISE NOTED. 7. MOUNT SIGNS 5'-0" AFF TO TOP UNLESS OTHERWISE NOTED.

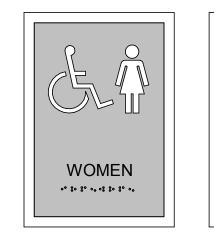


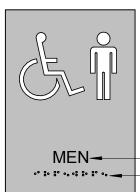
1. VISUAL CHARACTERS TO COMPLY WITH ICC A117.1 703.2 & ADAAG 703.5

10" MAXIMUM -OCCUPANCY 145-

— 1" TEXT



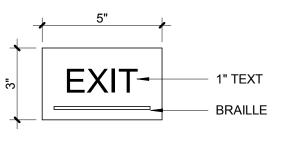




- BRAILLE TO BE LOCATED DIRECTLY UNDER SIGNAGE INFORMATION



SIGNAGE TYPE SCHEDULE







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



ATION OУ Ш Х Ш Х \mathcal{O} 80 Ο ODGE 0 \mathbf{O} く ZZ Z Ц 0 \mathbf{O} C FRISC FRISC \succ 5 \square 62 FRISCO

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: SIGN TYPES

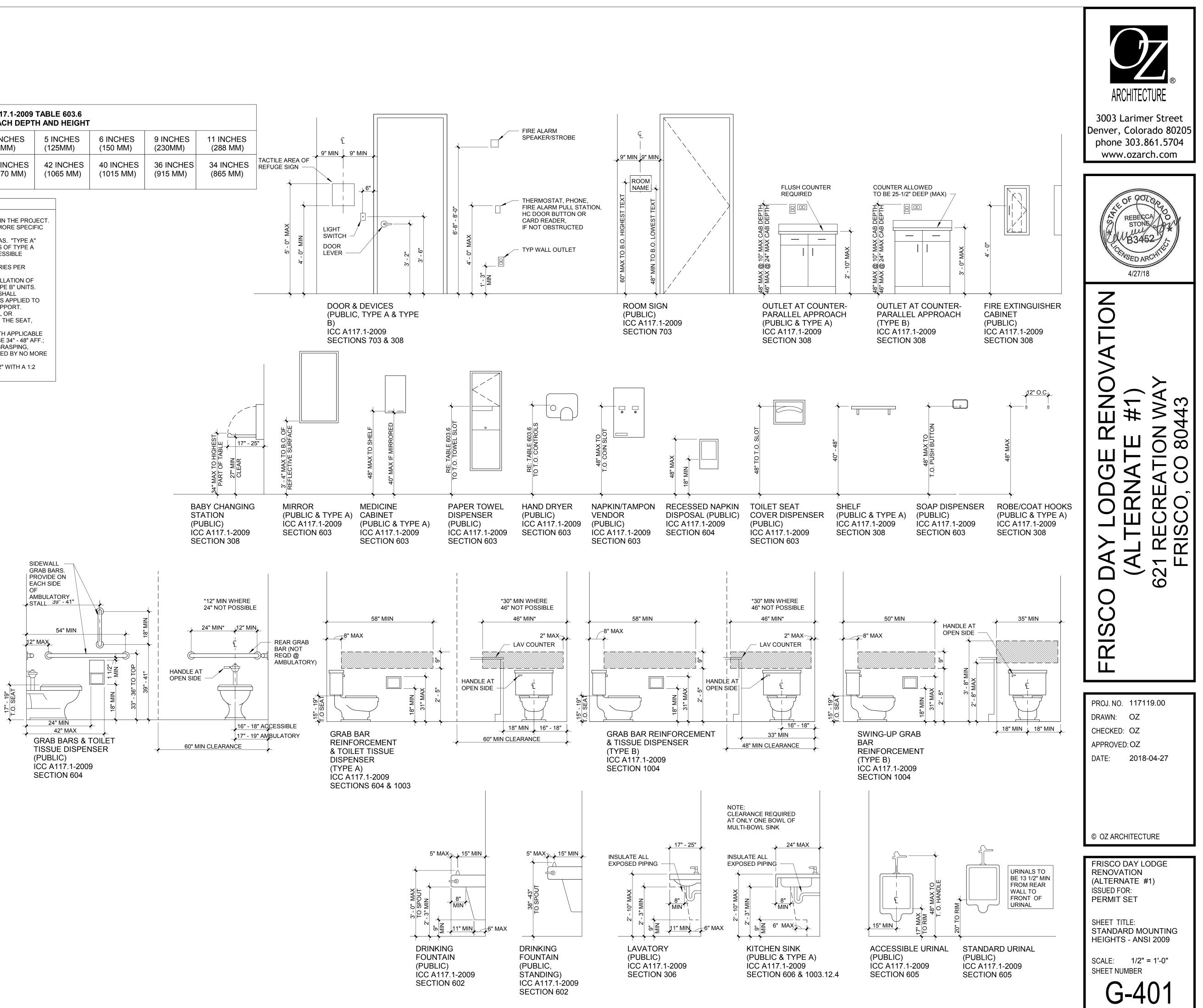
SCALE: As indicated SHEET NUMBER

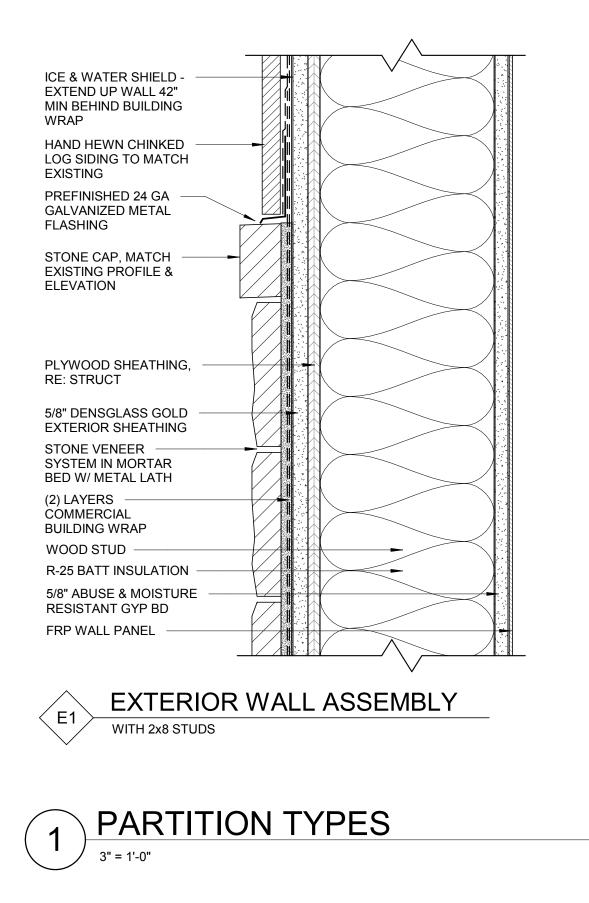
G-201

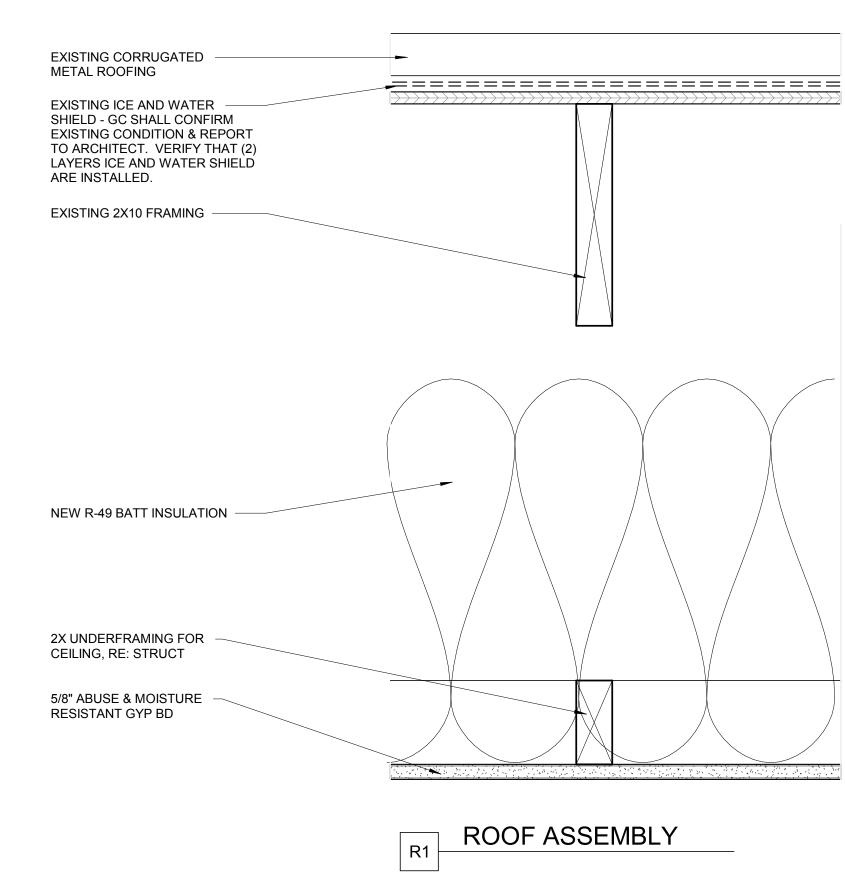
		ISI A117.1-2009 M REACH DEPT			
MAXIMUM REACH DEPTH	0.5 INCH	2 INCHES	5 INCHES	6 INCHES	9 INCHES
	(13 MM)	(51MM)	(125MM)	(150 MM)	(230MM)
MAXIMUM REACH HEIGHT	48 INCHES	46 INCHES	42 INCHES	40 INCHES	36 INCHE
	(1220 MM)	(1170 MM)	(1065 MM)	(1015 MM)	(915 MM)

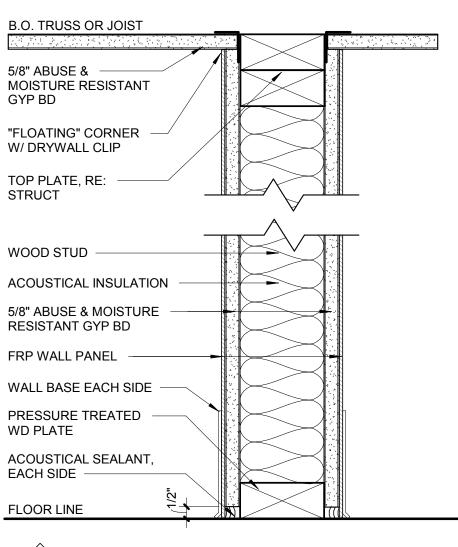
GENERAL NOTES

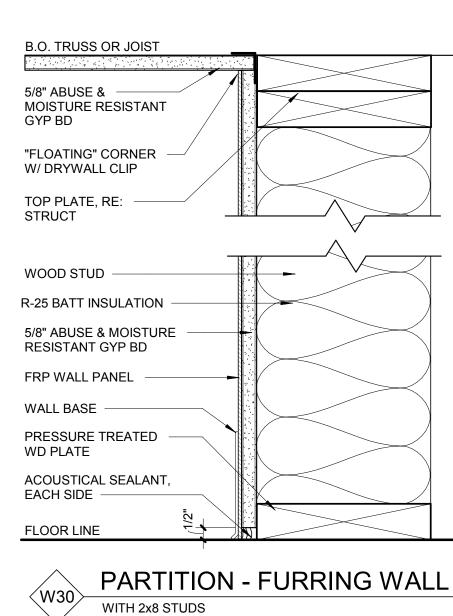
- DIMENSIONS ARE COMPLIANT WITH ICC A117.1-2009.
 NOT ALL FIXTURES AND DEVICES INDICATED MAY BE USED IN THE PROJECT.
- 3. MOUNTING HEIGHTS INDICATED MAY BE SUPERCEDED BY MORE SPECIFIC INFORMATION ELSEWHERE IN THE DOCUMENTS.
- 4. "PUBLIC" INDICATES ELEMENTS TO COMPLY IN PUBLIC AREAS. "TYPE A" INDICATES ELEMENTS TO COMPLY IN ACCESIBLE 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. 6. PROVIDE BLOCKING / REINFORCEMENT FOR FUTURE INSTALLATION OF
- GRAB BARS IN ACCESSIBLE BATHROOMS OF "TYPE A" & "TYPE B" UNITS.
 7. 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, FASTENEER, 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
- ALL APPLIANCES & PLOMBING FIXTORES MOST 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.
- 10. DOOR THRESHOLDS MUST HAVE A MAXIMUM HEIGHT OF 1/2" WITH A 1:2 BEVEL.











B.O. TRUSS OR JOIST
5/8" ABUSE & MOISTURE RESISTANT GYP BD
"FLOATING" CORNER
TOP PLATE, RE:
WOOD STUD
5/8" ABUSE & MOISTURE RESISTANT GYP BD
FRP WALL PANEL
WALL BASE
PRESSURE TREATED WD PLATE

FLOOR LINE



WITH 2x4 STUDS



3003 Larimer Street

Denver, Colorado 80205 phone 303.861.5704

www.ozarch.com



1. REFERENCE LEGEND, RE: FLOOR PLANS

(23C)-

<23C≫

PARTITION TYPE - FIRST POSITION INDICATES
 GENERAL PARTITION TYPE, SECOND POSITION
 INDICATES RELATIVE WIDTH OF PARTITION.

LETTER INDICATES CONDITION AT HEAD OF PARTITION DOUBLE DIAMOND INDICATES ACOUSTICAL PARTITION - IDENTICAL TO DESIGNATED PARTITION TYPE EXCEPT WITH ACOUSTICAL BATT INSULATION AND ACOUSTICAL SEALANT AT PERIMETER AND PENETRATIONS. PARTITION

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 UNIT
- 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 PARTITON 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. 13. USE WATER-RESISTANT GYPSUM BOARD FOR PARTITIONS IN TOILET
- ROOMS AND JANITOR'S CLOSETS. 14. USE WATER-RESISTANT GLASS-MAT GYPSUM BOARD FOR CEILINGS IN SHOWER ROOMS. COMPLY WITH IBC CHAPTER 25.
- 15. 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.
 18. FIRE-RESISTIVE PARTITIONS SHALL BE CONSTRUCTED IN FULL COMPLIANCE WITH TESTING REQUIREMENTS AND
- MANUFACTURER'S RECOMMENDATIONS FOR CONDITIONS AS REQUIRED.19. 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. 20. TESTING FACILITIES ARE ABBREVIATED AS FOLLOWS:
- FM FACTORY MUTUALGA GYPSUM ASSOCIATION
- GA GYPSUM ASSOCIATION
 NER NATIONAL EVALUATION REPORT
- UL UNDERWRITERS LABORATORIES INC.
 WHI- WARNOCK HERSEY INTERNATIONAL
- WHI- WARNOCK HERSEY INTERNATIONAL
 21. THROUGH-PENETRATIONS AND MEMBRANE-PENETRATIONS IN FIRE-RATED PARTITIONS SHALL BE FIRESTOPPED IN ACCORDANCE WITH IDC CLIADTED 7
- IBC CHAPTER 7. 22. PROVIDE ACOUSTICAL SEALANT AT ALL PENETRATIONS IN
- ACOUSTICAL PARTITIONS.
- 23. ACOUSTICAL BATT INSULATION TO TERMINATE AT THE STRUCTURE UNO.
- 24. CONCEALED SPACES IN COMBUSTIBLE CONSTRUCTION TO BE FIRE BLOCKED IN ACCORDANCE WITH IBC CHAPTER 7.



 PROJ. NO.
 117119.00

 DRAWN:
 OZ

 CHECKED:
 OZ

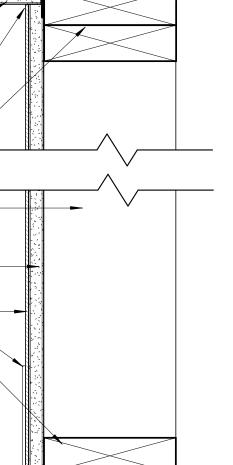
 APPROVED:
 OZ

 DATE:
 2018-04-27

© OZ ARCHITECTURE

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

SHEET TITLE: EXTERIOR ASSEMBLIES & PARTITION TYPES SCALE: As indicated SHEET NUMBER



PARTITION - FURRING WALL



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

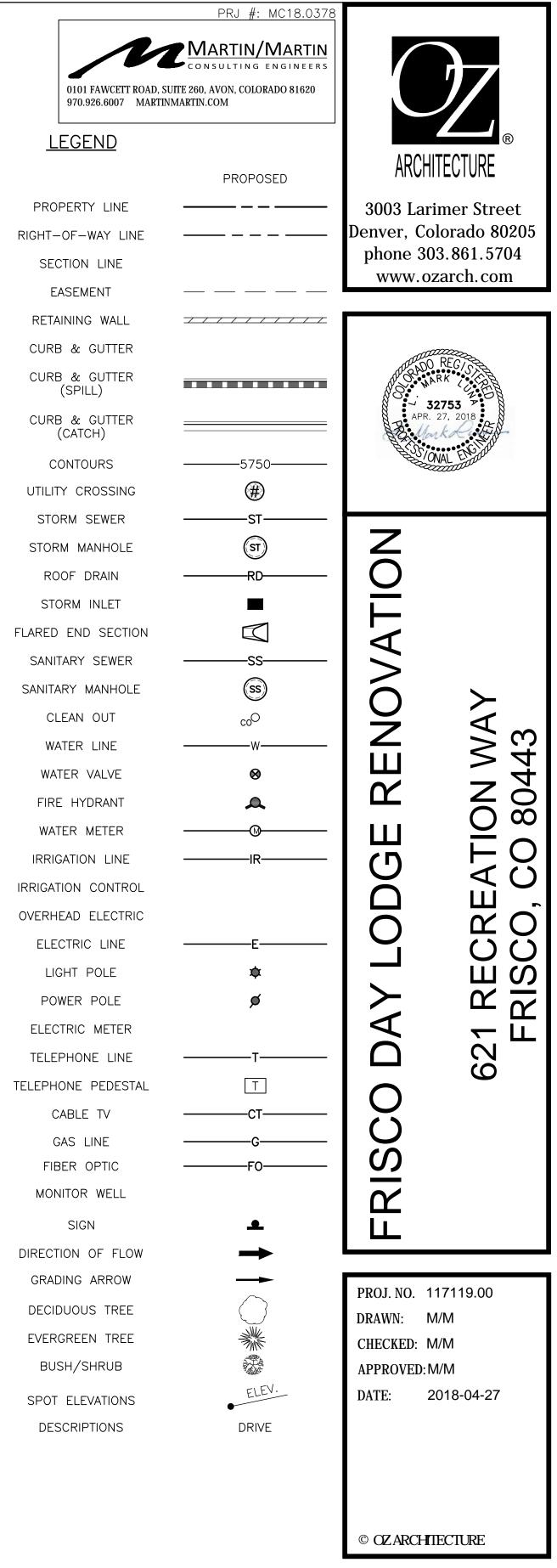
MARTIN/MARTIN, INC. GENERAL NOTES:

IN ADDITION TO THE TOWN OF FRSICO [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 ABUTTING 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.
- 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				





SHEET TITLE: GENERAL NOTES

SCALE: PER PLAN SHEET NUMBER

CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR

MARKING OF UNDERGROUND MEMBER UTILITIES MARTIN/MARTIN ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM (PROVIDED) ASCE (38) UTILITY QUALITY LEVEL D (Q_{LD}) AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

EXISTING

_____ ____ ____ ____

- — — — -ST- — — — -

(ST)

- - - - - RD- - - - -

- - - - - - SS- - - - - -

A

IRR

— — — — OHE — — — —

 \bigcirc

ELEC

- — — — T – — — — –

TEL

- — — — - G - — — — –

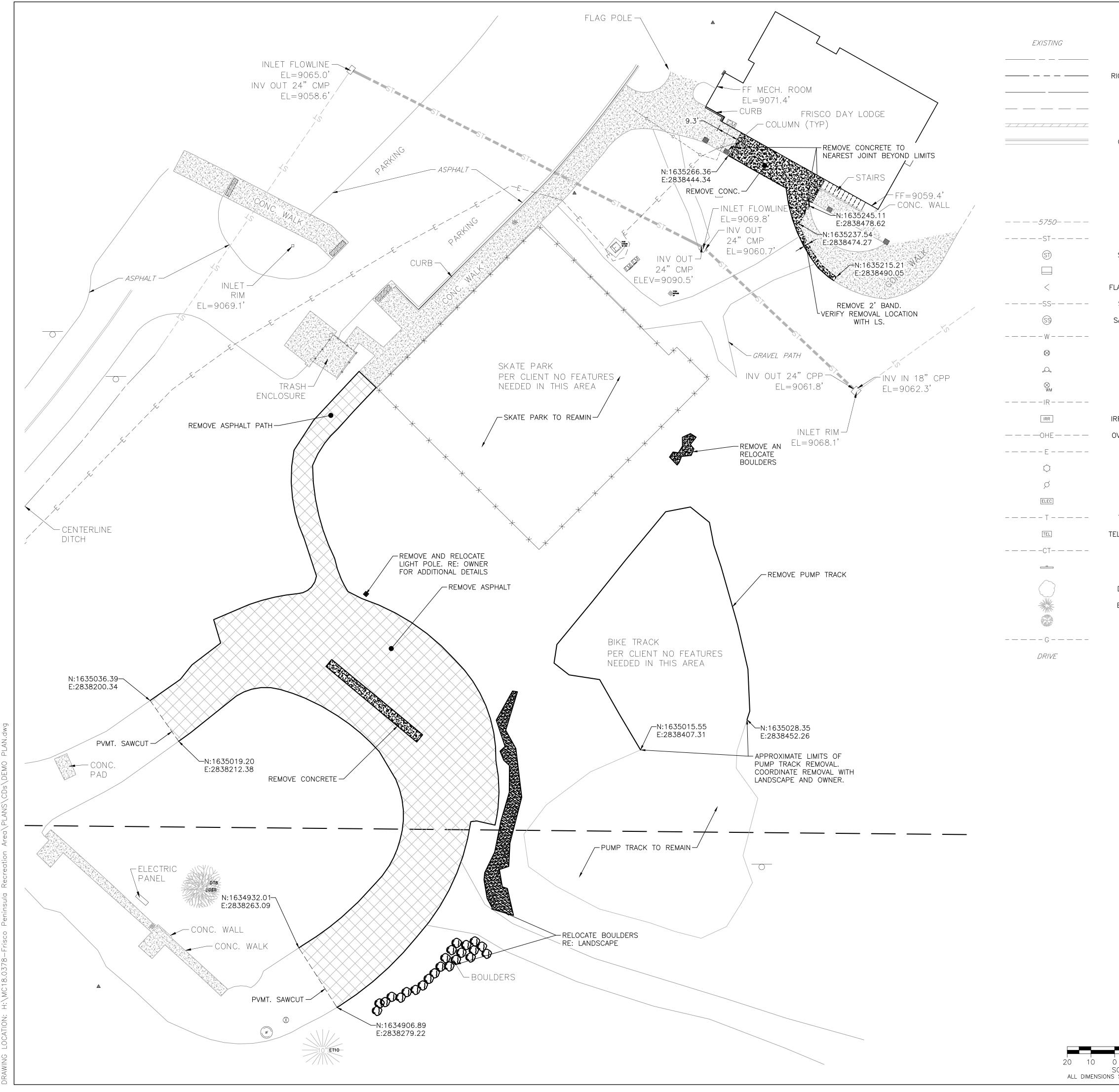
þ.w.

3.....

ELEV

DRIVE

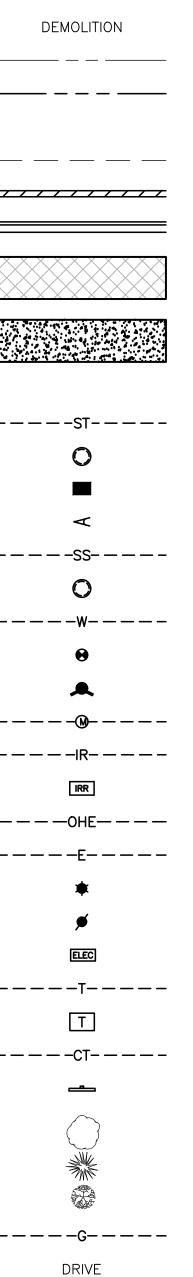
____ _ _ _ _ ___



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



	DEM
PROPERTY LINE	
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	
DESCRIPTIONS	C







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



ENOVATION AΥ ×43 TION 0 $\mathbf{\mathcal{L}}$ Ш C V Þ Ш $\mathbf{\mathcal{L}}$ U Ū RIS(АY \square 62 \bigcirc \bigcirc RIS

 PROJ. NO.
 117119.00

 DRAWN:
 M/M

 CHECKED:
 M/M

 APPROVED:
 M/M

 DATE:
 2018-04-27

© OZ ARCHITECTURE

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

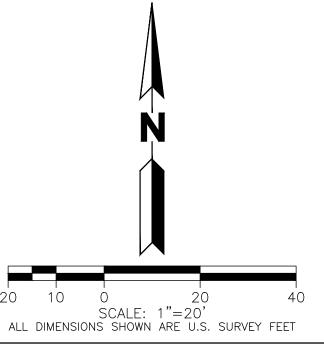
Sheet Title: Demolition plan

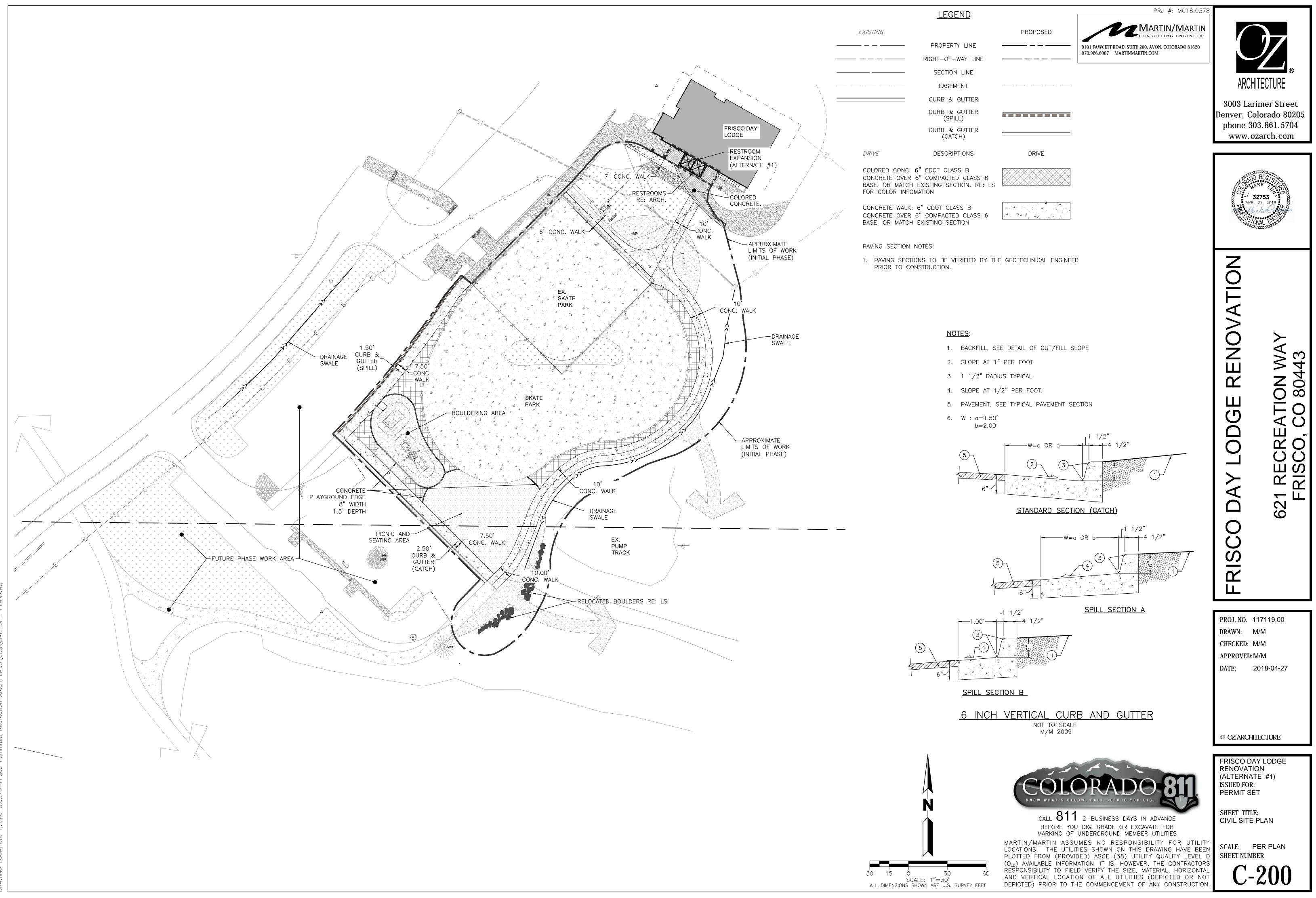
SCALE: PER PLAN SHEET NUMBER

C-100

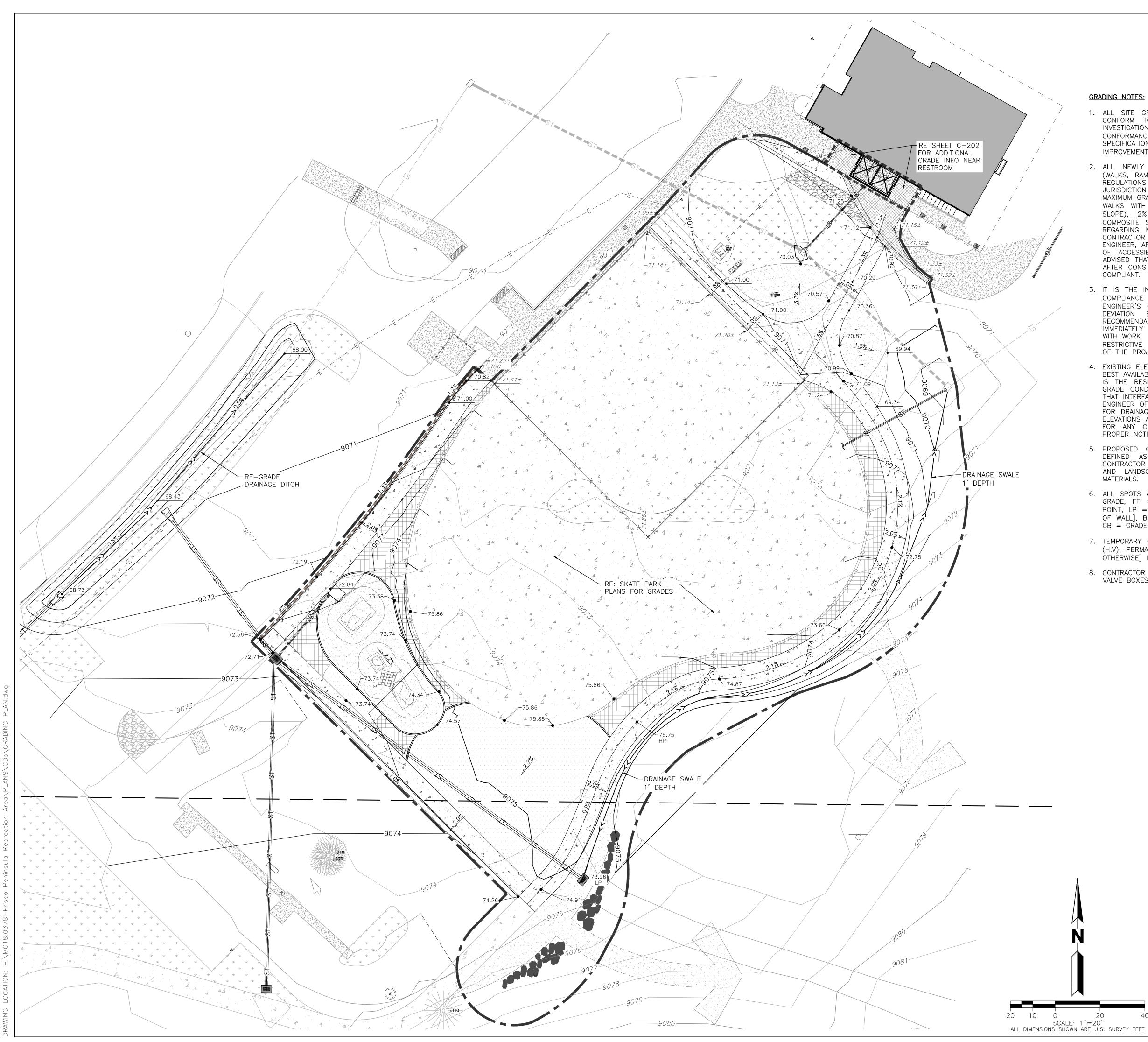


BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES MARTIN/MARTIN ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM (PROVIDED) ASCE (38) UTILITY QUALITY LEVEL D (Q_{LD}) AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.





78-Fr





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, 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.
- 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.



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



 \succ

WA 43

TION 0

V N

КO

OO

RE

- Ц

62

Ш

TION

A

0

Ž Ш

Ŷ

Ш

C

 \square

C

 \succ

 \square

 \Box

R S

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

© OZ ARCHITECTURE

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

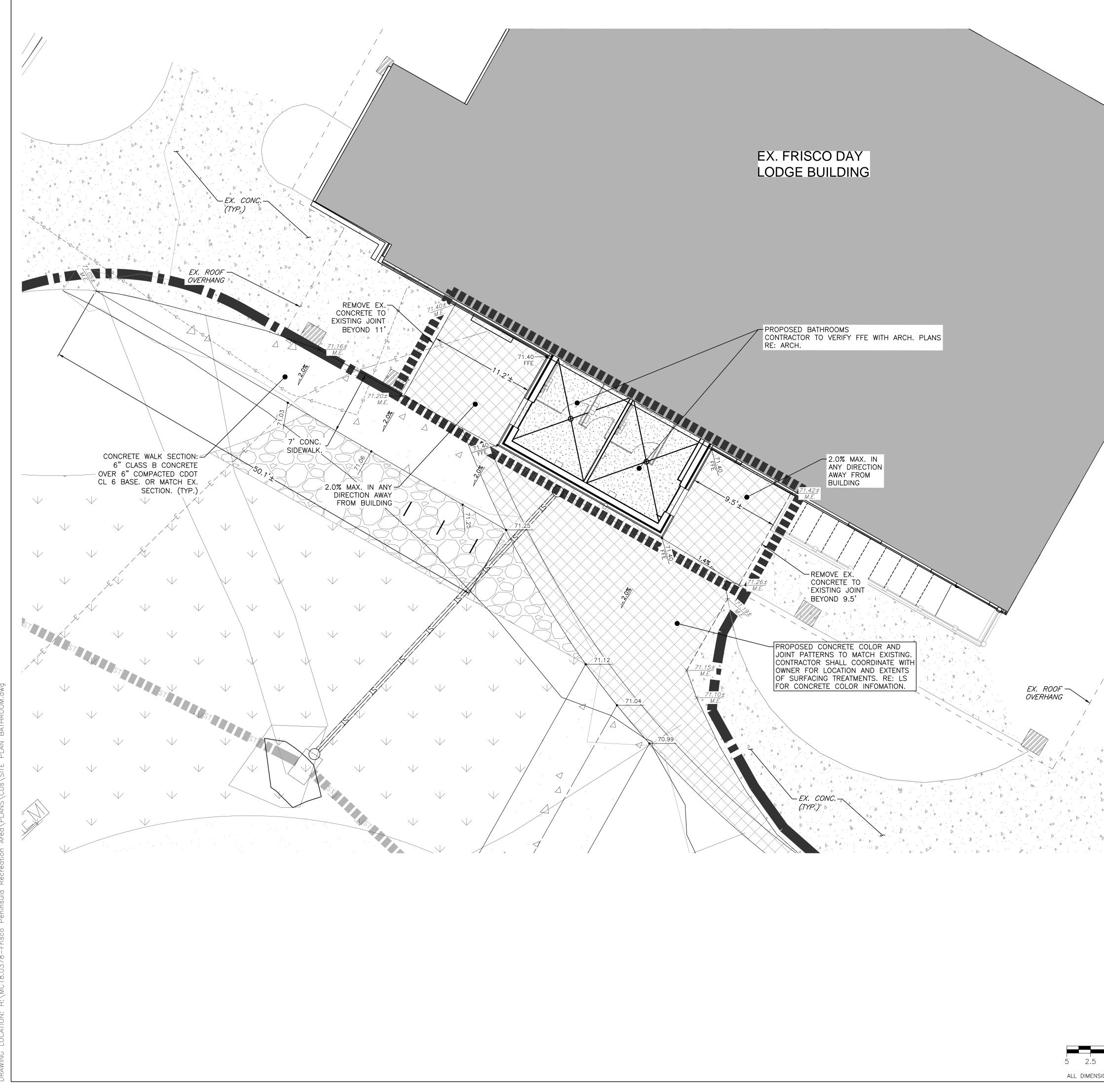
SHEET TITLE: GRADING PLAN

SCALE: PER PLAN SHEET NUMBER



BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES MARTIN/MARTIN ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM (PROVIDED) ASCE (38) UTILITY QUALITY LEVEL D (QID) AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION

SCALE: 1"=20'





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, 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.
- 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.



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



 \succ

K

 \geq

Ź

O

_

FΟ

4

O

 ∞

N N

 \vdash

 \triangleleft

O

Ζ

C A C \square Ш 2 O \mathbf{O} \mathbf{O} ШS \mathbf{C} 2 N \mathbf{O} <u>S</u> Ŷ PROJ. NO. 117119.00

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

© OZ ARCHITECTURE

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

SHEET TITLE: **CIVIL RESTROOM SITE** AND GRADING PLAN

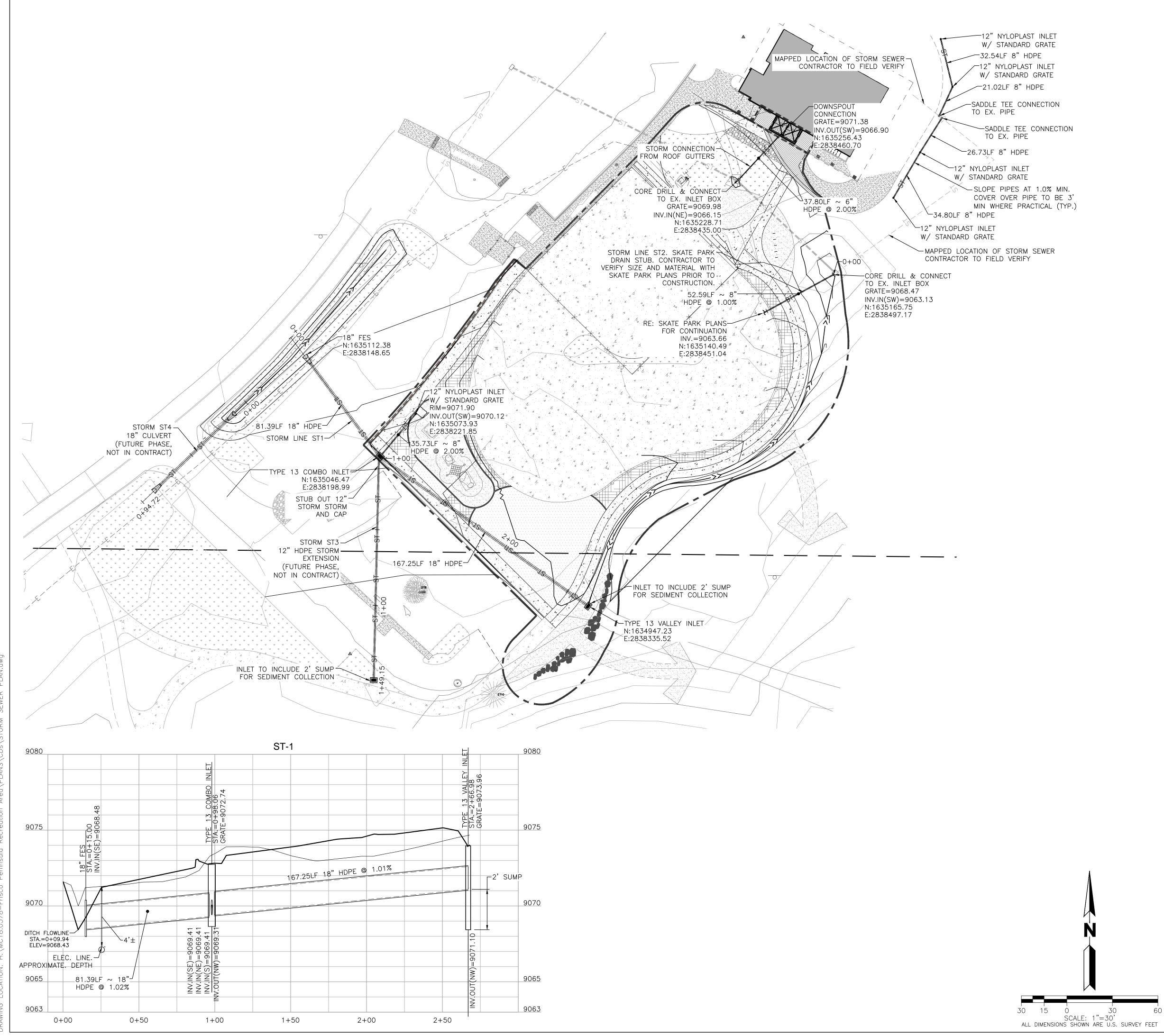
SCALE: PER PLAN SHEET NUMBER

ーんしん



BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES MARTIN/MARTIN ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM (PROVIDED) ASCE (38) UTILITY QUALITY LEVEL D (QLD) AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT ALL DIMENSIONS SHOWN ARE U.S. SURVEY FEET DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION

SCALE: 1"=5'





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



ATION

>

ENO

 $\boldsymbol{\mathcal{C}}$

C

AY

 \square

 \bigcirc

 \bigcirc

RIS



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

© OZARCHITECTURE

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

SHEET TITLE: STORM SEWER PLAN

SCALE: PER PLAN SHEET NUMBER

C-400

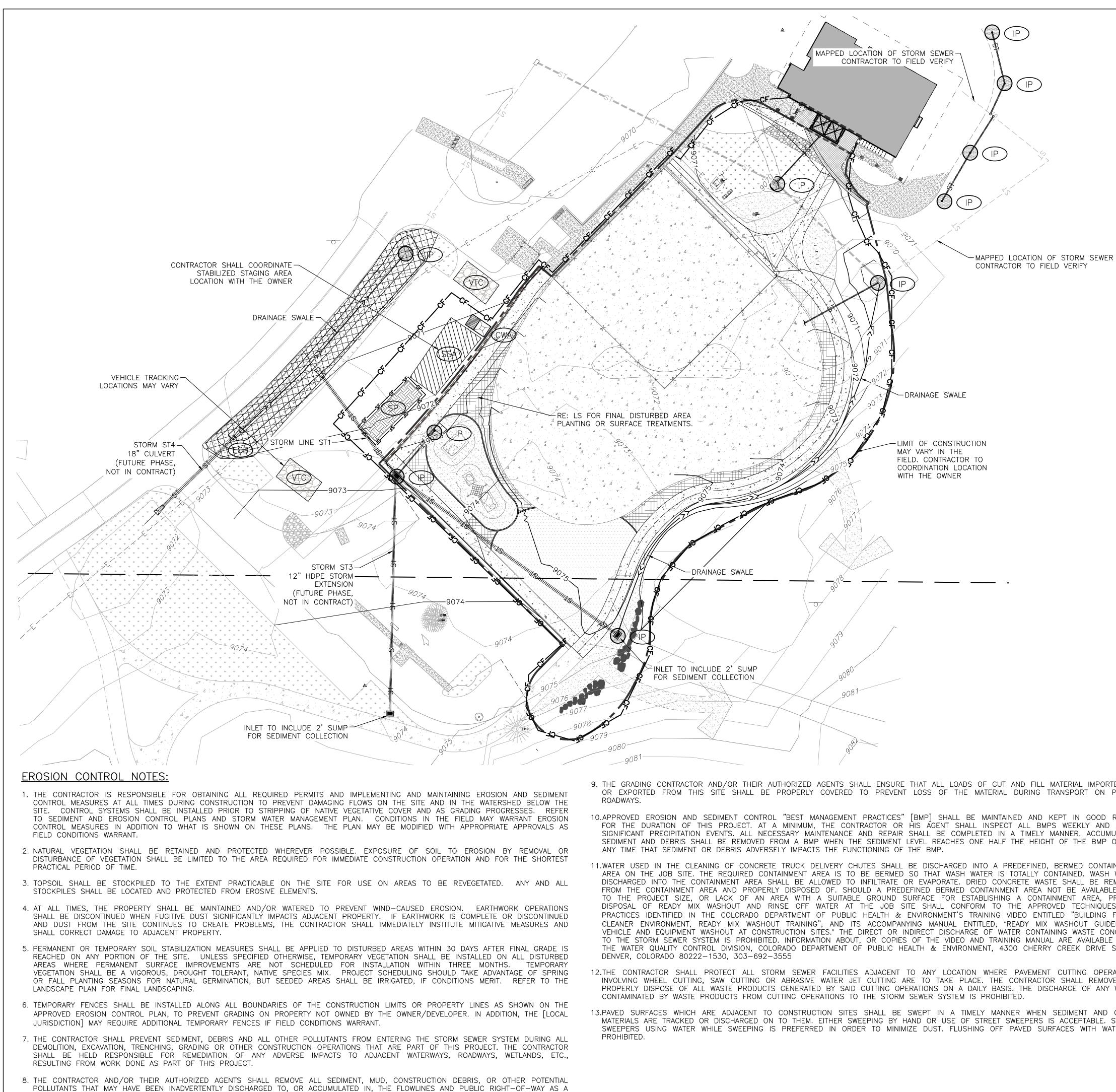


PRJ #: MC18.0378



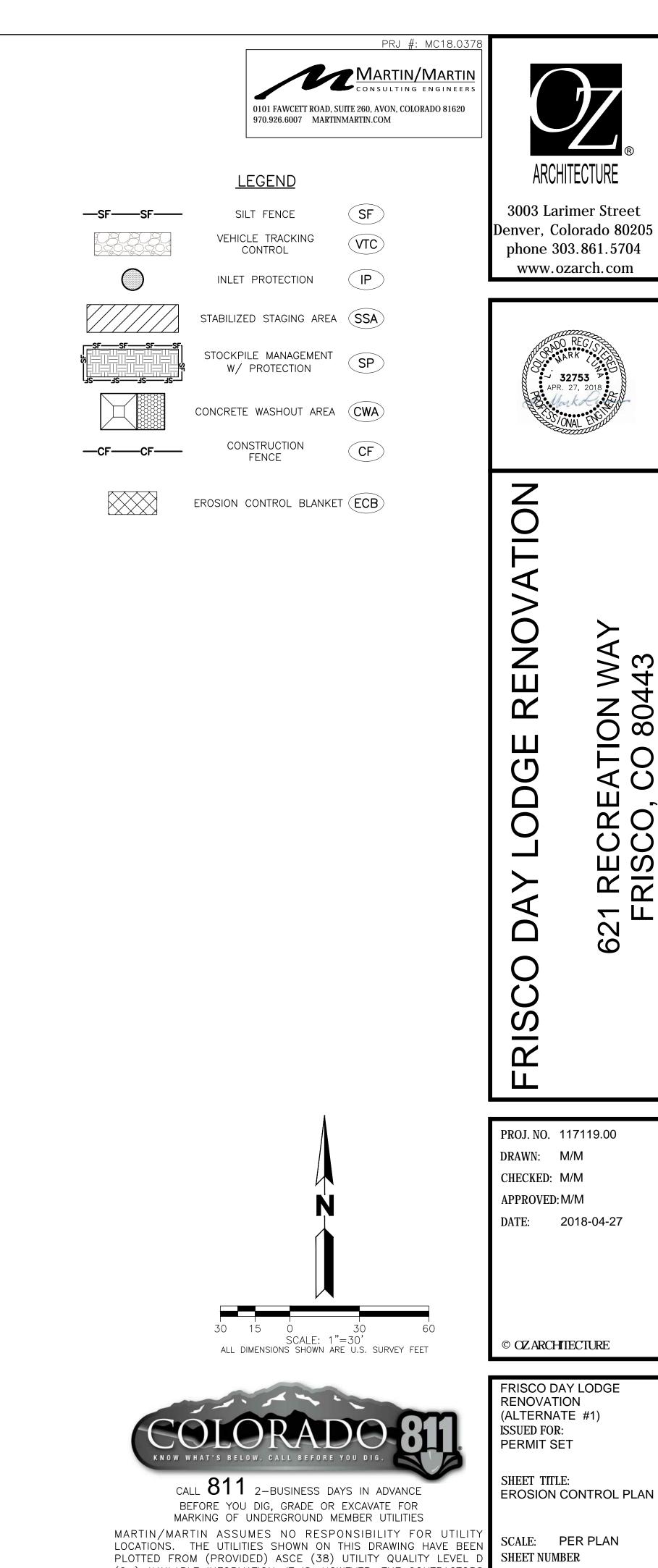
BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES MARTIN/MARTIN ASSUMES NO RESPONSIBILITY FOR UTILITY LOCATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM (PROVIDED) ASCE (38) UTILITY QUALITY LEVEL D (QLD) AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

.30

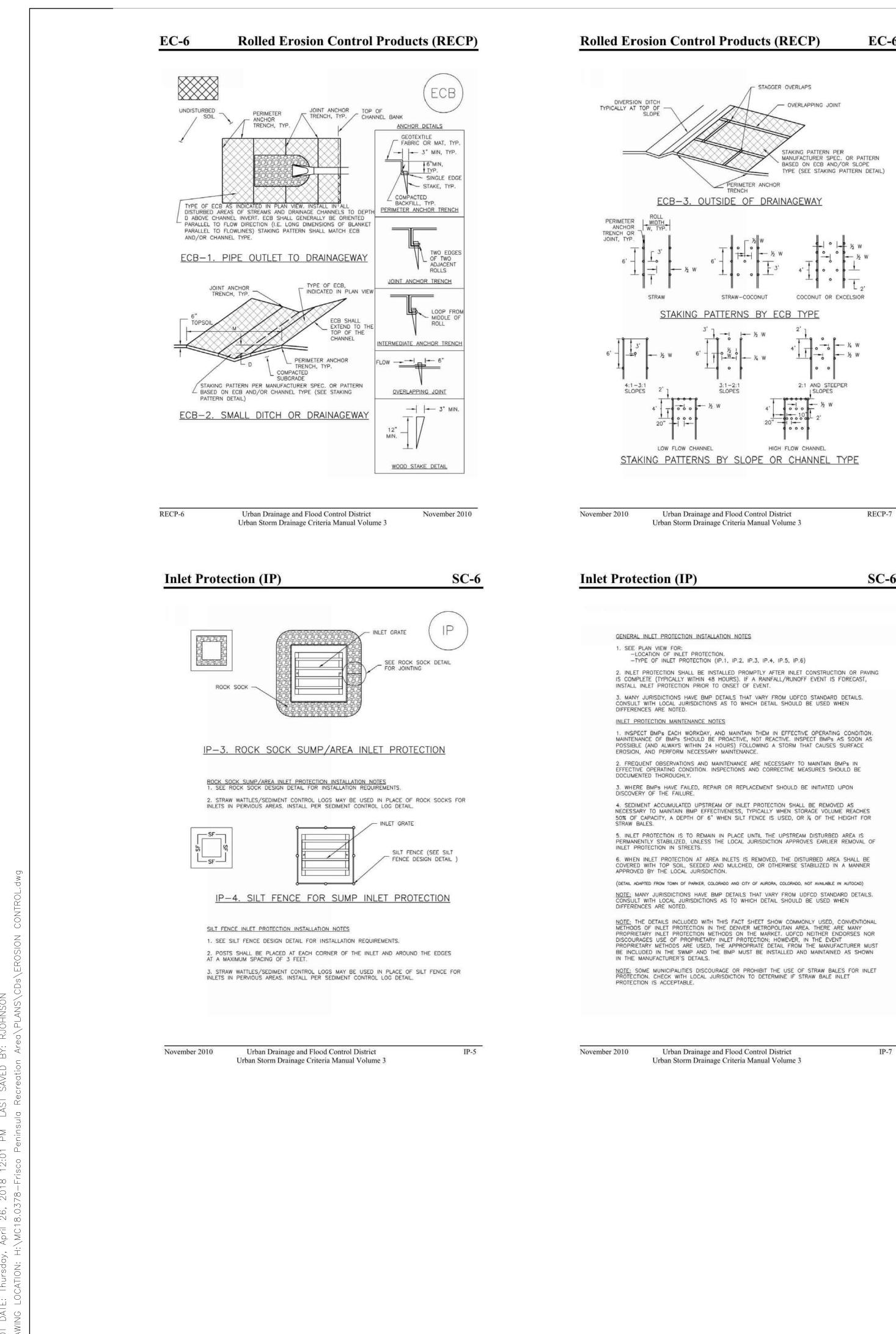


RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT.

- 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
- 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
- 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,
- 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
- 13.PAVED SURFACES WHICH ARE ADJACENT TO CONSTRUCTION SITES SHALL BE SWEPT 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



(QLD) AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY THE SIZE, MATERIAL, HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.





n (IP) SC-
ROTECTION INSTALLATION NOTES
V FOR: OF INLET PROTECTION. NLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)
TION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING PICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, OTECTION PRIOR TO ONSET OF EVENT.
CTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. DCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN NOTED.
MAINTENANCE NOTES
EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS LWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE RFORM NECESSARY MAINTENANCE.
SERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN TING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE IROUGHLY.
HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON IE FAILURE.
UMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS AINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES , A DEPTH OF 6" WHEN SILT FENCE IS USED, OR ½ OF THE HEIGHT FOR
TION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS BBILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF IN STREETS.
ROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE OP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER E LOCAL JURISDICTION.
TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)
SDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. OCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN NOTED.
S INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL T PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY ET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR E OF PROPRIETARY INLET PROTECTION; HOWEVER, IN THE EVENT HODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN TURER'S DETAILS.

Rolled Erosion Control Products (RECP)

EROSION CONTROL BLANKET INSTALLATION NOTES 1. SEE PLAN VIEW FOR: -LOCATION OF ECB.

EC-6

-TYPE OF ECB (STRAW, STRAW-COCONUT, 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.

3. IN AREAS WHERE ECBS ARE SHOWN ON THE PLANS, THE PERMITTEE SHALL PLACE TOPSOIL AND PERFORM FINAL GRADING, SURFACE PREPARATION, AND SEEDING AND MULCHING. SUBGRADE SHALL BE SMOOTH AND MOIST PRIOR TO ECB INSTALLATION AND THE ECB SHALL BE IN FULL CONTACT WITH SUBGRADE. NO GAPS OR VOIDS SHALL EXIST UNDER THE

4. PERIMETER ANCHOR TRENCH SHALL BE USED ALONG THE OUTSIDE PERIMETER OF ALL BLANKET AREAS. 5. 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.

6. INTERMEDIATE ANCHOR TRENCH SHALL BE USED AT SPACING OF ONE-HALF ROLL LENGTH FOR COCONUT AND EXCELSIOR ECBs.

7. OVERLAPPING JOINT DETAIL SHALL BE USED TO JOIN ROLLS OF ECBs TOGETHER FOR ECBs ON SLOPES. 8. MATERIAL SPECIFICATIONS OF ECBs SHALL CONFORM TO TABLE ECB-1.

9. ANY AREAS OF SEEDING AND MULCHING DISTURBED IN THE PROCESS OF INSTALLING ECBS SHALL BE RESEEDED AND MULCHED. 10. DETAILS ON DESIGN PLANS FOR MAJOR DRAINAGEWAY STABILIZATION WILL GOVERN IF DIFFERENT FROM THOSE SHOWN HERE.

TYPE	COCONUT	STRAW CONTENT	EXCELSIOR CONTENT	RECOMMENDED NETTING**
STRAW*	-	100%		DOUBLE/ NATURAL
STRAW- COCONUT	30% MIN	70% MAX	=:	DOUBLE/ NATURAL
COCONUT	100%	~	=2	DOUBLE/ NATURAL
EXCELSIOR	-	-	100%	DOUBLE/ NATURAL

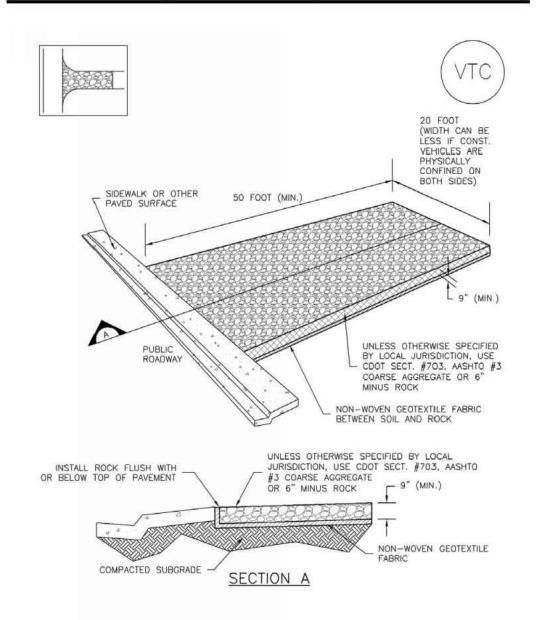
**ALTERNATE NETTING MAY BE ACCEPTABLE IN SOME JURISDICTIONS

RECP-8

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

Vehicle Tracking Control (VTC)

SM-4

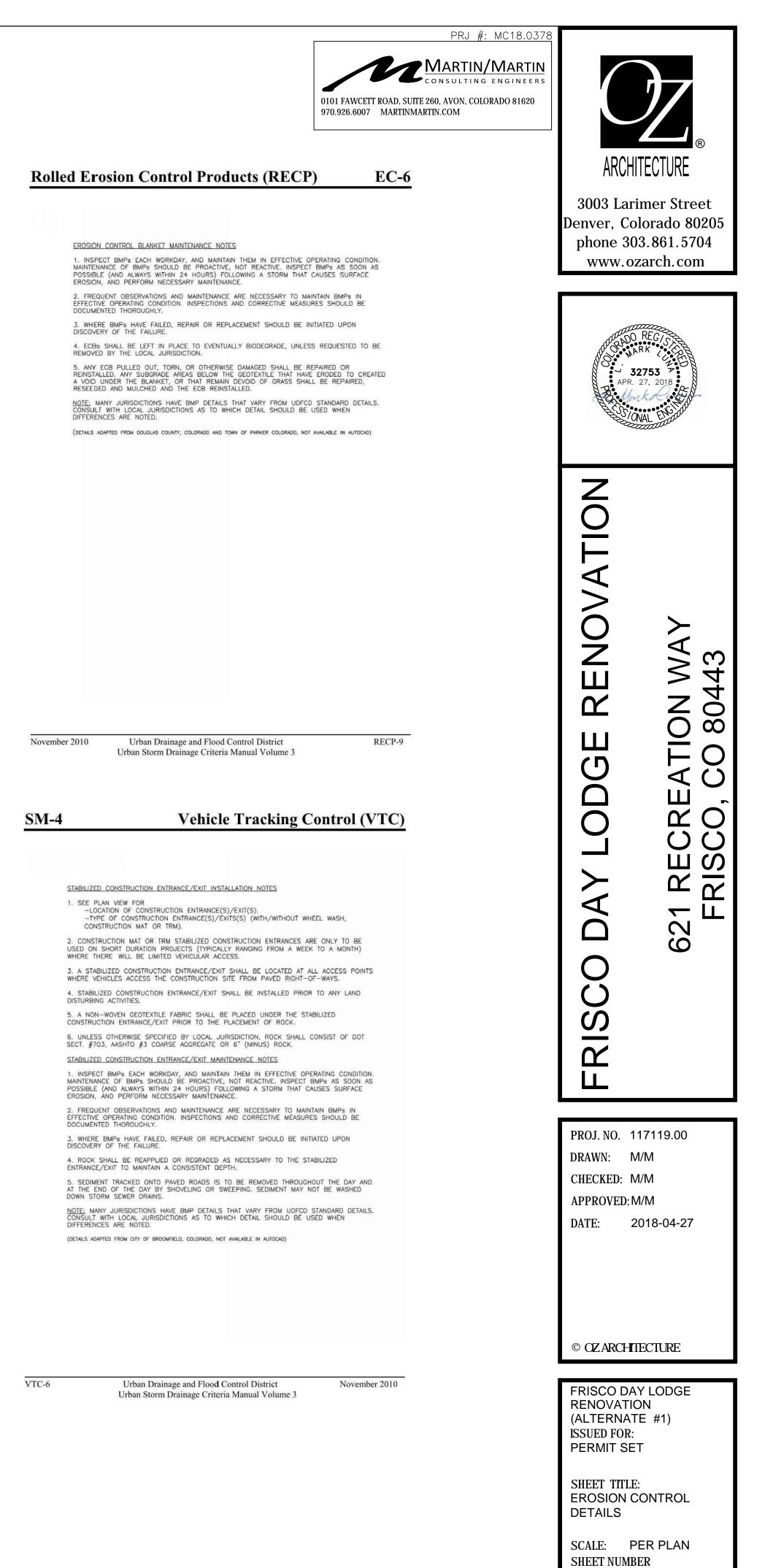


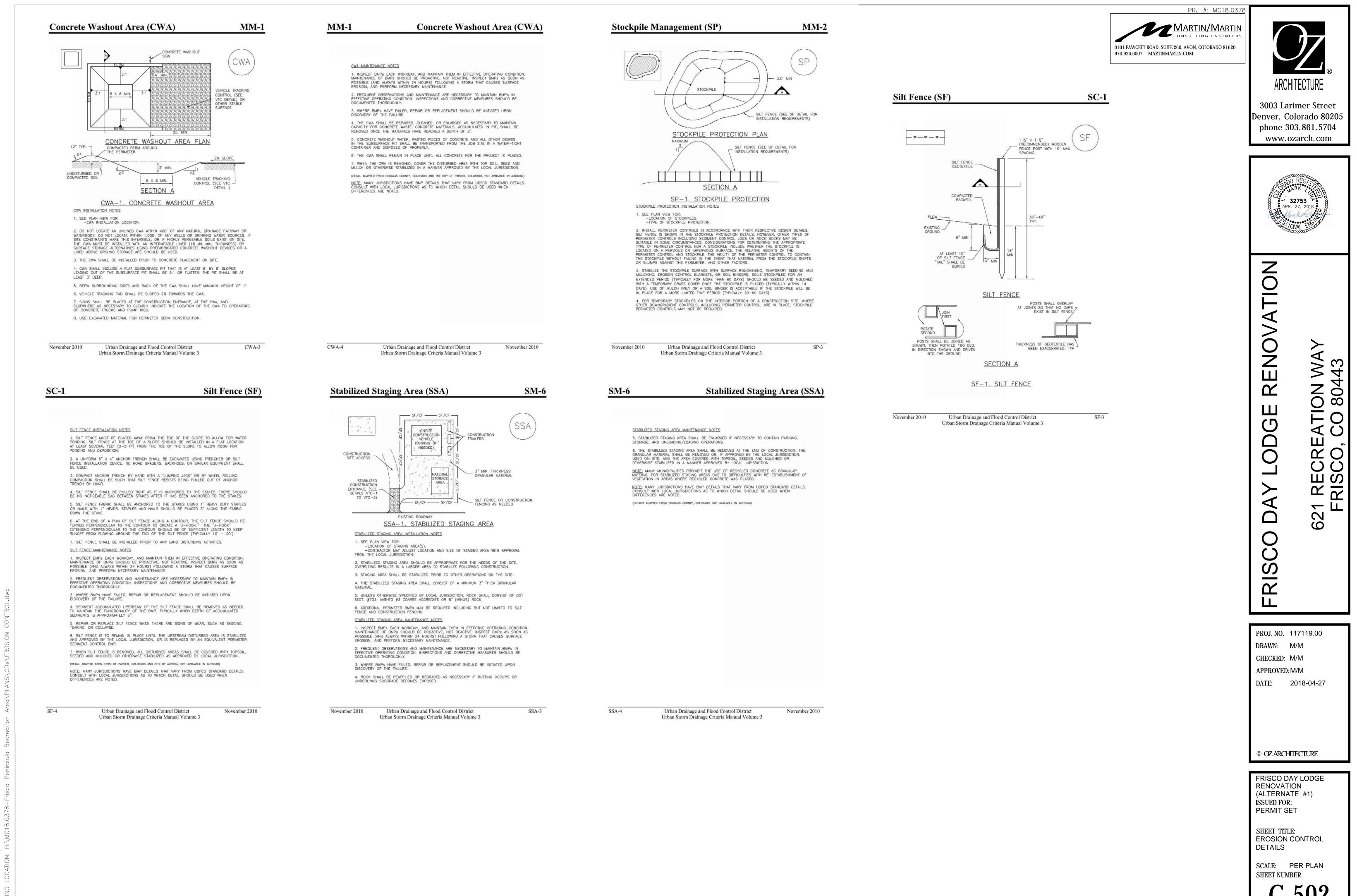
VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

November 2010

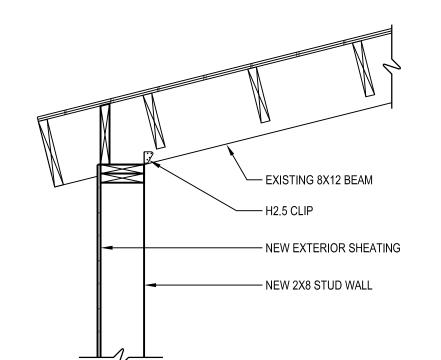
VTC-3



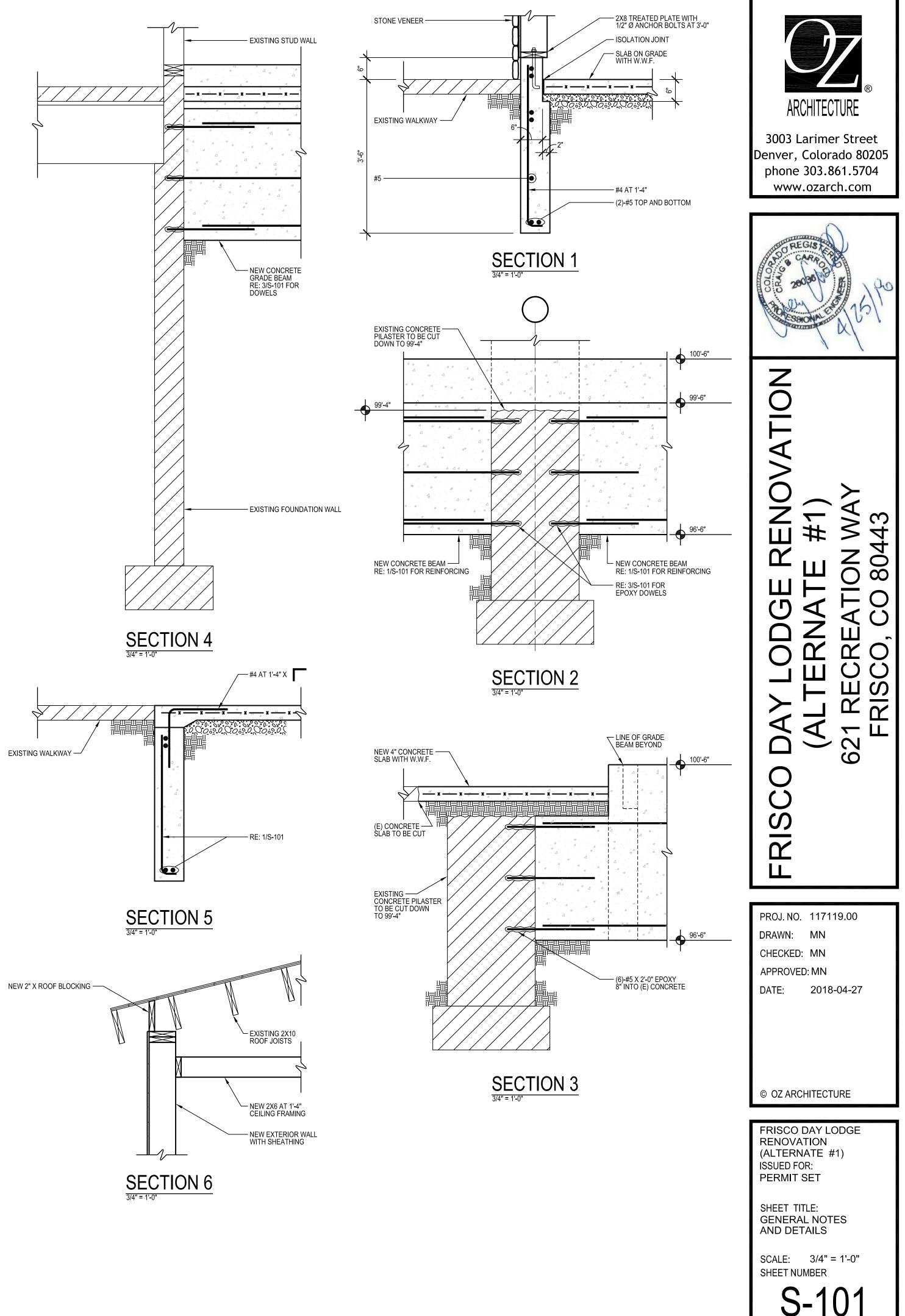


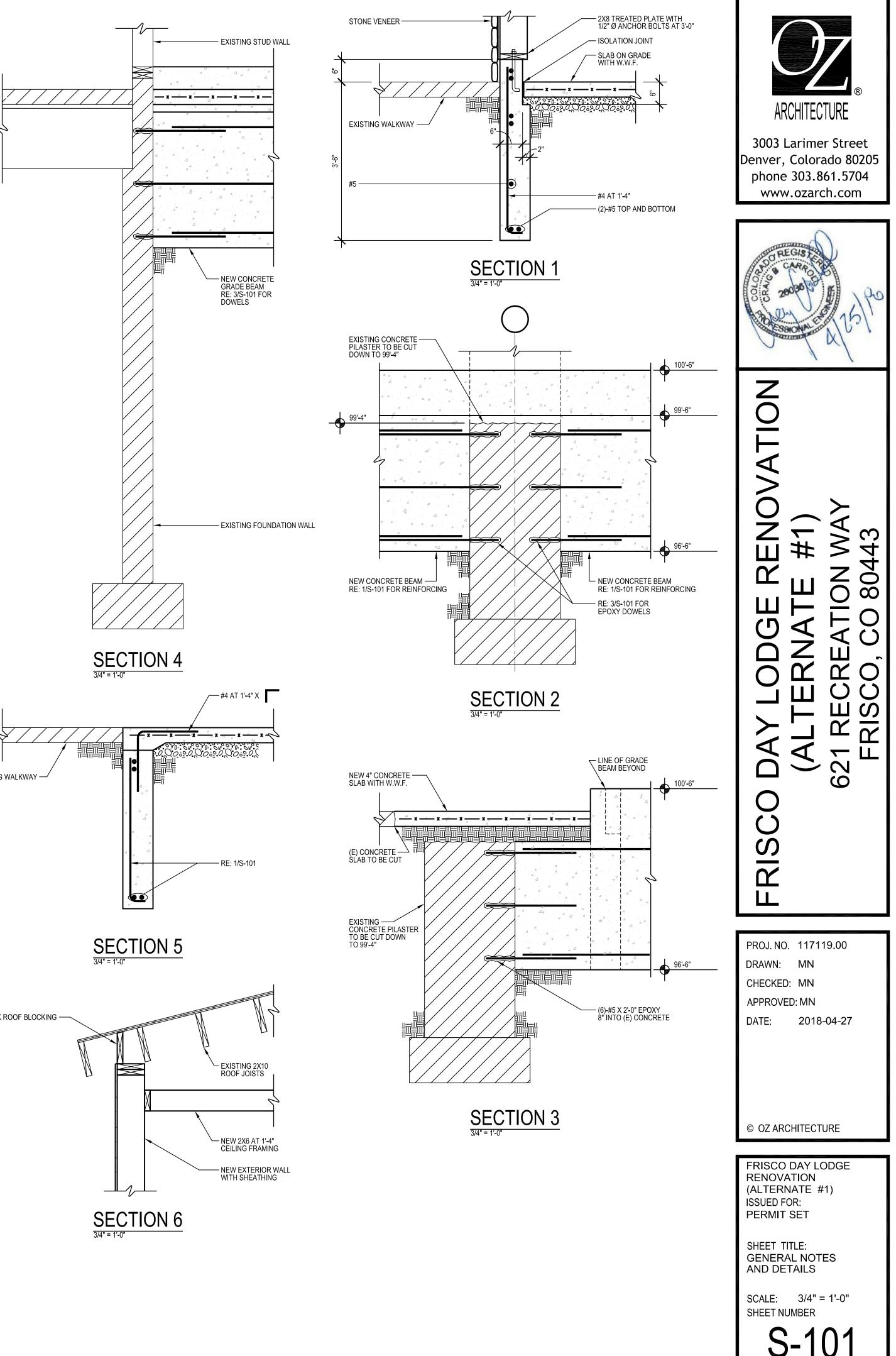
1.			USED IN DESIG	ıN :	90 PSF		E.	FAST TABI
	в.		ANCE FACTORS		ال ، پ_		F.	PLYW 1.
	р.	CAT	FEGORY SMIC FACTOR I	E	II 1.0			
			DW FACTOR IS ND FACTOR IW		1.0 1.0			2.
	с.	WIND	SECOND GUST		115 (ULTI	ΜΛΤΕ)		
			POSURE		B	mate)		3.
	D.	SEISMIC SIT	E FE CLASS		с			4.
		SS	FEGORY		B .255			5.
		S1 SDS SD1	5		.073 0.204 0.0825			
		BASIC S		RESISTING SYSTEM	IS WOOD SHEA	NR WALL 029		6.
			SE MODIFICATIO IS PROCEDURE U	ON FACTOR JSED EQUIVALENT L	7 ATERAL FORCE	,		7.
	E.	LIVE LO	DADS ARE REDUC	CED PER CODE IF A	PPLICABLE.		G	LAM
	F.	CODE US	SED IN DESIGN:	INTERNATIONAL	BUILDING CODE	, 2015 EDITION.	ч.	CAPA
2.	TES	TING, IN	SPECTIONS AND	OBSERVATIONS:				REC(5 1,
	Α.	STRUCTU	JRAL ENGINEER	MAY MAKE PERIODI	C OBSERVATION		6. NON-	STRU
		INSPECT INSPECT	TIONS BY THE G	DBSERVATIONS SHAL GOVERNING AUTHORI BE REQUIRED BY C	TIES OR SERVE		Α.	ELEI SUPI OTHI
	в.					CIAL INSPECTOR UNLESS	В.	
			ICALLY WAIVED	BY THE BUILDING	JFFICIAL.			ALL ARCI UNRI
					ENT AND COMPA	ACTION OF FILL	7. GENE	
			AND IN-PLACE	E DRY DENSITY OF WITH THE APPROVE	THE COMPACTED) FILL FOR	Α.	
		2. CON	ICRETE CONSTRU	ICTION			В.	VER: ELE(
				SPECTION OF REINF			_	REQI
		с.	TO FABRICATE	SPECIMENS FOR S	TRENGTH TESTS	CONCRETE IS SAMPLED 5, PERFORM SLUMP AND		PRI ITE AND
		d.	PERIODIC INS	TESTS AND DETERM SPECTION FOR MAIN AND TECHNIQUES.		ERATURE OF THE CONCRETE. PECIFIED CURING		ARC
3.	CON	CRETE	TEMPERATORE	AND TECHNIQUES.			D.	PRO
	Α.					PE I/II PORTLAND CEMENT,		MEC ITE
	CON	STONE A		SHALL SATISFY TH		EQUIREMENTS: NTIO % AIR REQ.	Ε.	BY SUBI
		TINGS		3000 psi STD				REI OF
	FOUI INTI	NDATION ERIOR SL	WALLS ABS ON GRADE	4000 psi STD 4000 psi STD	 0.50			ENT STA
				4500 psi STD NOT EXCEED 4".	0.45	6%-8%	F.	WAT ARCI
					JOINTS IN SL	ABS ON GRADE. JOINTS	G.	ALL
						./4 OF SLAB DEPTH X 3/16 B REINFORCEMENT THROUGH		WALI ALL ARCI
	c.	HORIZON SPAN WI	ITAL PLANE. AN TH VERTICAL B ALL CONSTRUCT	ULKHEADS AND HOR	TE WORK MUST IZONTAL SHEAR	N A BE MADE AT THIRD POINT (KEYS UNLESS OTHERWISE ED OR AS REVIEWED BY TH		
	D.	WITH AC STANDAR	I BUILDING CO D HOOKS FOR D	DE 318 LATEST ED	ITION, UNLESS ED OTHERWISE.	ALL BE IN ACCORDANCE NOTED OTHERWISE. USE ALL EXPOSED EDGES OF		
4.	REI	NFORCEME	NT					
	Α.	A615, G	RADE 60 EXCEP	T TIES, STIRRUPS	AND PLATE AN	ARS CONFORMING TO ASTM ICHORS WHICH SHALL BE & ASTM A706 GRADE 60.		
		LAPPED	ONE FULL MESH	AT SIDE AND END	SPLICES AND	DE 65 AND SHALL BE WIRED TOGETHER.		
	с.	1. CON 2. CON	ICRETE POURED	TION UNLESS NOTE AGAINST EARTH IN FORMS (EXPOSE (NOT EXPOSED TO)	D TO WEATHER	3" OR EARTH) 2" 3/4"		
	D.			IENT AND TOLERANC		N ACCORDANCE WITH		
	F.	NO SPLI THE STR	CES OF REINFO	RCEMENT SHALL BE IEER. LAP SPLICES	MADE EXCEPT , WHERE PERMI	AS DETAILED OR AUTHORIZI TTED, SHALL BE A MINIMU BARS CONTINUOUS AROUND	M OF	5.
	F.	PLACE T	WO #5 (PER 8"	THICKNESS) WITH	2'-0" PROJEC	TION AROUND ALL OPENING: 4'-0" DIAGONALLY AT EAC	S IN	
5.	WOOD							
	Α.	WESTERN		S ASSOCIATION AN		5 FIR, LARCH, GRADED BY TO INTERNATIONAL		
		2 TO 4 2" TO 4 5" THIC NOTED A	THICJK – 2 TC 4" THICK – 6" CK – 5" AND WI	AND WIDER DER SSES ARE MINIMUM	SELE	NO. 2 Fb = 900 P NO. 1 Fb = 1200 P CT STRUCTURAL= 1500 P CT STRUCTURAL= 1600 P IREPETITVE USES PRIOR	SI SI	
	в.	WHEN PR	RESERVATIVE TR	REATED LUMBER IS	-	CODE ALL CONNECTIONS AND		
	c.			EQUATELY GALVANIZ .UMBER MAY BE HEM				
		IREATEL						

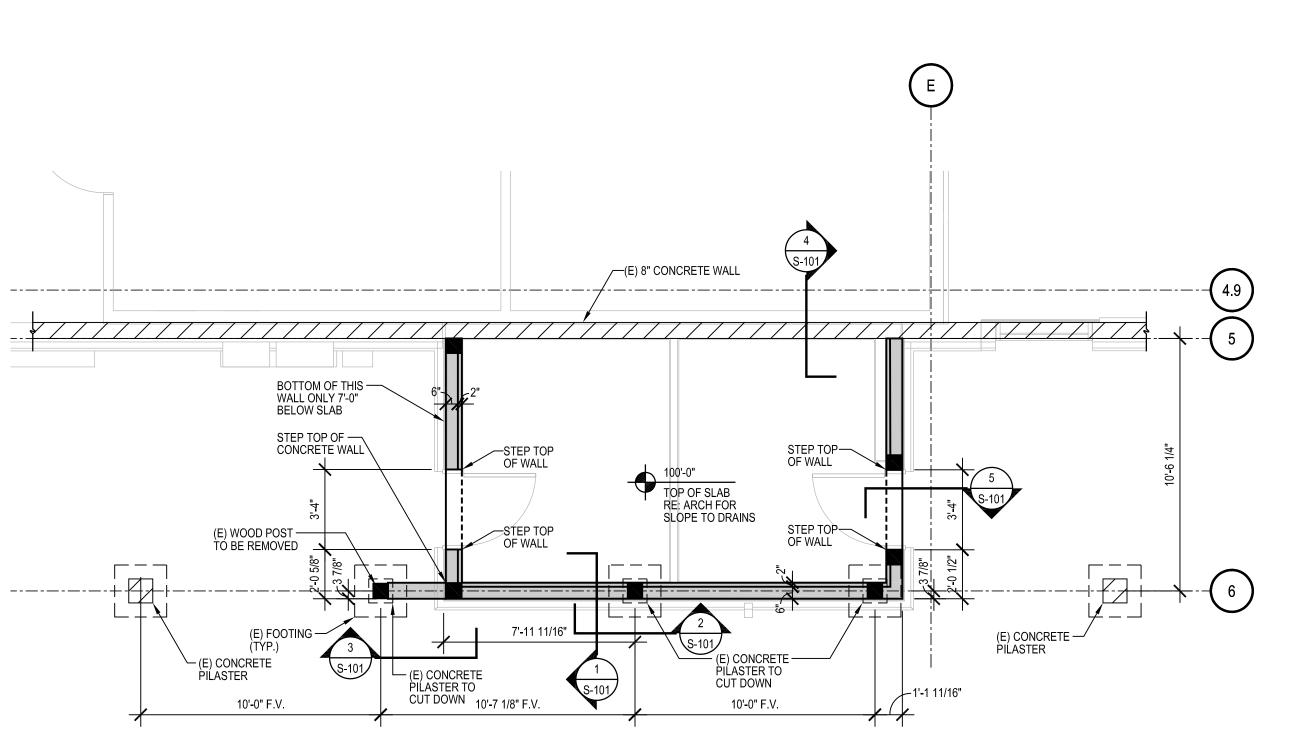
- ALL WOOD MEMBERS WITH COMMON NAILS ACCORDING TO THE IBC SCHEDULE 2304-9.1 UNLESS NOTED OTHERWISE.
- OD DECK AND/OR ORIENTED STRAND BOARD. ANEL THICKNESS SHALL BE AS SHOWN ON THE DRAWING. APPLICATION SHALL
- IN ACCORDANCE WITH RECOMMENDATIONS OF THE AMERICAN PLYWOOD SSOCIATION.
- ACH PANEL SHALL BE IDENTIFIED WITH THE GRADE-TRADEMARK OF THE MERICAN PLYWOOD ASSOCIATION AND SHALL MEET THE REQUIREMENTS OF I.S. PRODUCTS STANDARD PSI, LATEST EDITION FOR PLYWOOD. ALL PANELS HICH HAVE ANY EDGE OR SURFACE PERMANENTLY EXPOSED TO THE EATHER SHALL BE OF THE EXTERIOR TYPE.
- OR FLOORING USE 3/4" T&G STURD-I-FLOOR SHEATHING GLUED AND NAILED ITH 10D NAILS AT 6" ON CENTER ALONG PANEL EDGES AND AT 12" ALONG
- NTERMEDIATE SUPPORTS. OR ROOF USE 3/4" (48/24 SPAN RATING) EXPOSURE I SHEATHING NAILED ITH 10D NAILS AT 4" ON CENTER ALONG PANEL EDGES AND AT 12" ALONG
- NTERMEDIATE SUPPORTS. XTERIOR WALLS SHALL HAVE ONE LAYER OF 5/8" EXPOSURE I PLYWOOD OR SB SHEATHING NAILED WITH 8d (OR 10d) NAILS AT 6" ON CENTER ALONG PANEL DGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS. ALL PANEL EDGES
- HALL BE BLOCKED. LOORS AND ROOF SHEATHING SHALL BE INSTALLED WITH THE FACE GRAIN ERPENDICULAR TO SUPPORTS WITH END JOINTS STAGGERED.
- NSTALL SUITABLE EDGE SUPPORT BY USE OF PLYCLIPS, TONGUE AND ROOVE PANELS OR SOLID WOOD BLOCKING SUPPORTS.
- ATED VENEER LUMBER MEMBERS SHALL HAVE THE FOLLOWING STRESS ITIES: FB = 2800 PSI, E = 2,000,000 PSI, FC = 750 PSI, FV = 285 PSI. UP MEMBERS SHALL BE CONNECTED IN ACCORDANCE WITH MANUFACTURERS' MENDATIONS. CONTRACTOR SHALL HAVE THE OPTION OF USING 3 1/2" OR WIDE MEMBERS.
- JRAL ELEMENTS
- NTS SUCH AS NON-BEARING PARTITIONS, ETC. ATTACHED TO AND/OR RTED BY THE STRUCTURE SHALL TAKE INTO ACCOUNT DEFLECTIONS AND STRUCTURAL MOVEMENTS.
- PROTECTION FOR ALL STRUCTURAL PARTS SHALL BE PROVIDED AND SHALL MEET ODE REQUIREMENTS FOR THE TYPE OF CONSTRUCTION SPECIFIED BY THE TECTURAL DRAWINGS. STRUCTURAL STEEL MEMBERS SHALL BE CONSIDERED TRAINED UNLESS NOTED OTHERWISE.
- EER'S ACCEPTANCE MUST BE SECURED FOR ALL STRUCTURAL SUBSTITUTIONS.
- ALL OPENINGS THROUGH FLOORS, ROOF AND WALLS WITH MECHANICAL AND RICAL CONTRACTORS. VERIFICATION OF LOCATIONS, SIZES, LINTELS AND RED CONNECTIONS ARE CONTRACTOR'S COMPLETE RESPONSIBILITY.
- TO INSTALLATION OF MECHANICAL AND ELECTRICAL EQUIPMENT OR OTHER TO BE ATTACHED TO THE STRUCTURE, ENGINEER'S APPROVAL OF CONNECTIONS UPPORTS SHALL BE OBTAINED. UNLESS SPECIFICALLY DETAILED ON TECTURAL AND STRUCTURAL DRAWINGS, RESPECTIVE SUBCONTRACTOR SHALL SH ALL HANGERS, CONNECTIONS, ETC., REQUIRED FOR INSTALLATION OF HIS ITEMS.
- DE ALL EMBEDDED ITEMS IN STRUCTURE AS NOTED ON ARCHITECTURAL, NICAL, ELECTRICAL AND STRUCTURAL DRAWINGS. MISCELLANEOUS EMBEDDED AND ANCHOR BOLTS SHALL BE FURNISHED BY STEEL SUPPLIER AND INSTALLED NCRETE CONTRACTOR. STEEL SHALL FULFILL ASTM A36.
- SHOP DRAWINGS TO ENGINEER FOR REVIEW OF ALL CONCRETE ORCING AND STRUCTURAL STEEL. THE MANUFACTURING OR FABRICATION / ITEMS PRIOR TO WRITTEN REVIEW OF SHOP DRAWINGS WILL BE ELY AT THE RISK OF THE CONTRACTOR. SHOP DRAWINGS NOT REVIEWED AND ED BY CONTRACTOR PRIOR TO SUBMITTING WILL BE RETURNED AND NOT REVIEWED.
- PROOFING, VAPOR BARRIERS, ETC., SHALL BE AS SHOWN ON THE TECTURAL DRAWINGS AND AS INDICATED IN THE SPECIFICATIONS.
- ASONRY AND STONE VENEERS SHALL BE ATTACHED TO INTERIOR AND EXTERIOR AS SPECIFIED IN SECTION 1405 OF THE INTERNATIONAL BUILDING CODE.
- IMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST FIELD AND TECTURAL DRAWINGS.



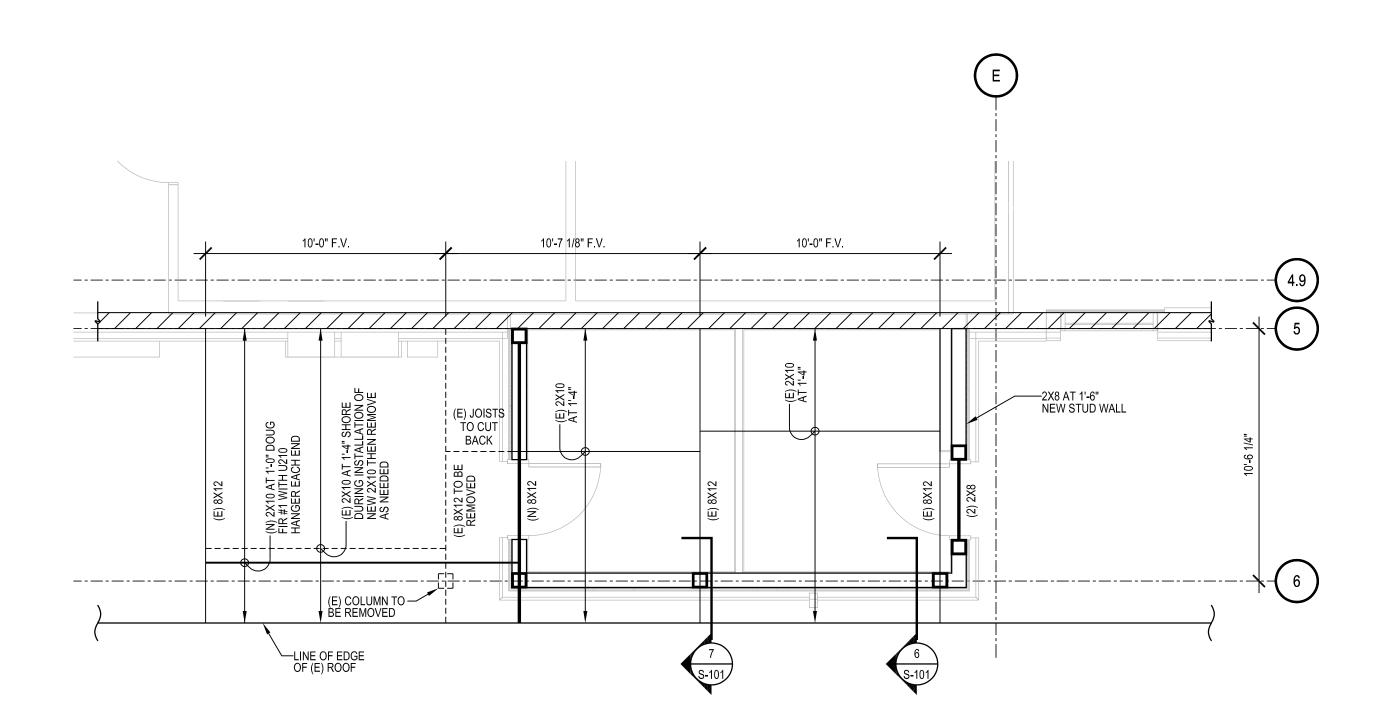
SECTION 7 3/4" = 1'-0"





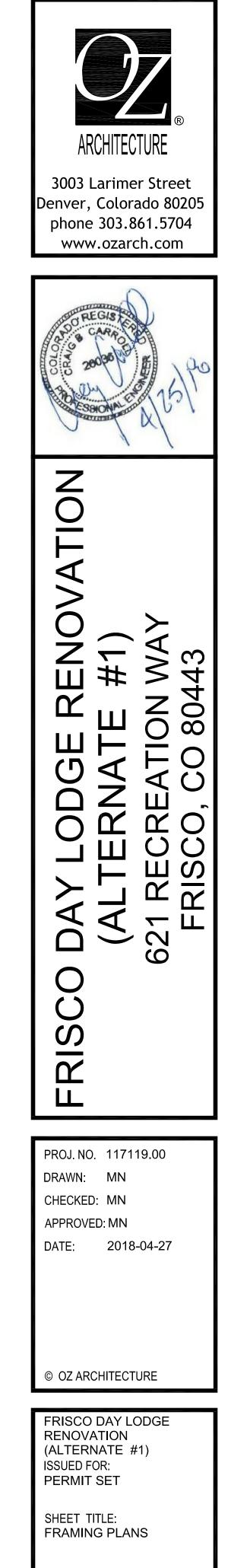


PARTIAL FOUNDATION PLAN 1/4" = 1'-0"



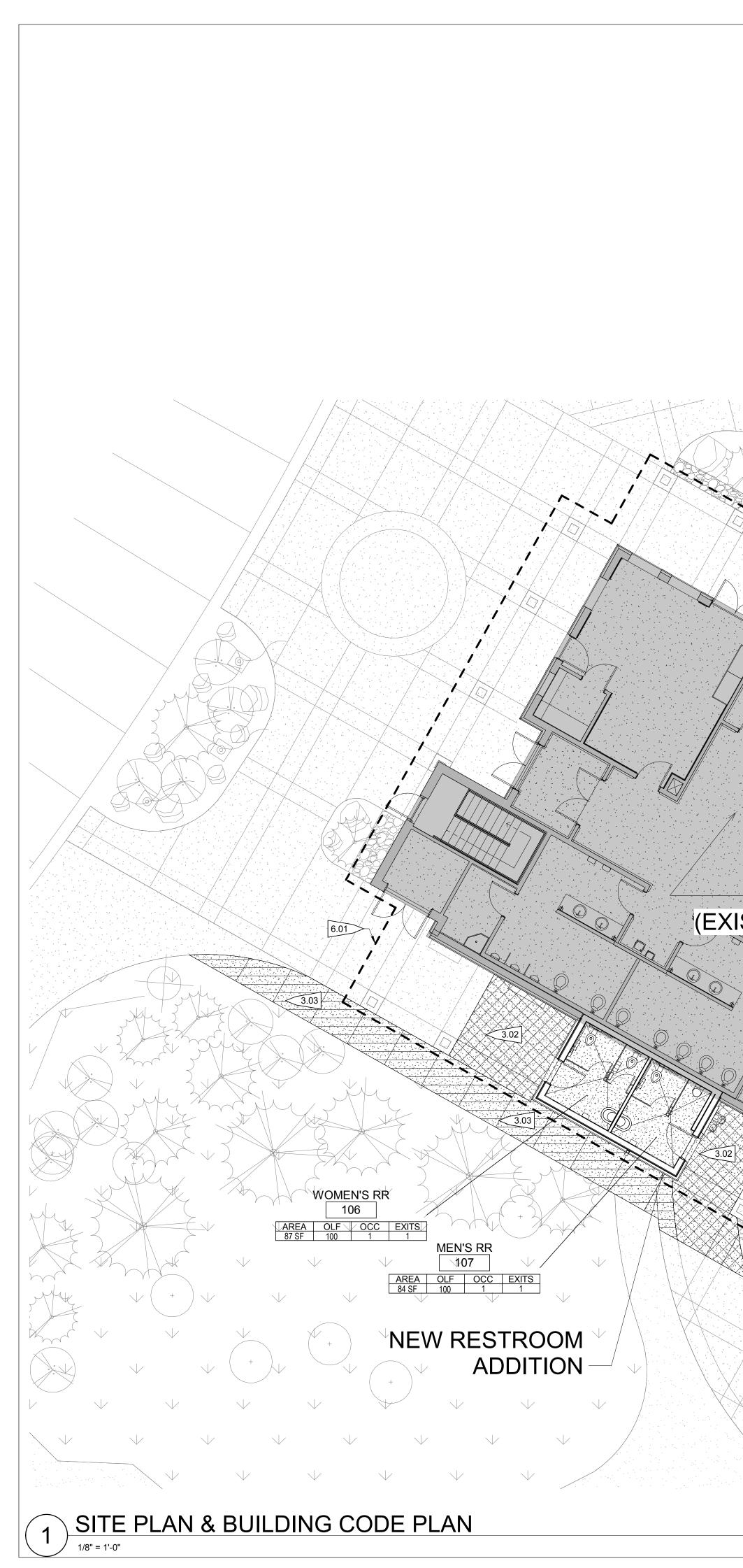
PARTIAL ROOF FRAMING PLAN





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

S-102



PROJECT FLAGNOTES

NO.FLAGNOTE3.02DIAGONAL 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.3.03DIAGONAL HATCH DENOTES NEW CONCRETE WALK. COLOR SHALL MATCH
EXISTING ADJACENT GRAY COLOR.6.01LINE OF EXISTING ROOF OVERHANG

CODE PLAN TEXT

- 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.
 THE GC IS TO COORDINATE FIRE DEPARTMENT CONNECTION (FDC) LOCATION WITH AUTHORITY HAVING JURISDICTION AND ARCHITECT.
 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.

DAY LODGE (EXISTING TO REMAIN)

13

RESTROOM AND ALSO OCCUR ON LEVEL 1 U BASEMENT AND ADJA	INCLUDES A 178 SF ADDITI O A NEW EXTERIOR DRINKIN NDER THE EXISTING ROOF	ON FOR A MEN'S AND WOMEN'S NG FOUNTAIN. THIS WORK WILL OVERHANG. THE EXISTING N UNDISTURBED AND WILL I.
2011 NATIONAL ELECT 2006 INTERNATIONAL 2009 ICC A117.1 ACCE	MECHANICAL CODE PLUMBING CODE FIRE CODE FUEL GAS CODE ENERGY CONSERVATION C	STRATIVE PROVISIONS INGS AND FACILITIES
ZONING DESIGNATION	I: PR (PARKS AND RECREA	TION)
	Y CLASSIFICATIONS: A3 (MC PANCY CLASSIFICATIONS: .	
CONSTRUCTION TYPE	: VB	
OCCUPANT LOAD:	BASEMENT LEVEL = <u>LEVEL 1 (INCL. ADDITION)</u> TOTAL OCCUPANT LOAD =	= 241 OCCUPANTS
FIRE SUPPRESSION: F	ULLY SPRINKLERED PER N	FPA 13
ALLOWABLE AREA:	BASIC ALLOWABLE = SPRINKLER INCREASE = <u>FRONTAGE INCREASE =</u> TOTAL ALLOWABLE =	
ACTUAL AREA:	BASEMENT FLOOR = FIRST FLOOR = TOTAL =	4,001 SF <u>4,080 SF (INCL. 178 SF ADDITION)</u> 8,081 SF
ALLOWABLE HEIGHT:	BASIC ALLOWABLE = SPRINKLER INCREASE = TOTAL ALLOWABLE =	1 STORY, 20 FEET
ACTUAL HEIGHT:	1 STORY ABOVE GRADE P	PLANE, 30 FEET
	URAL FRAME: RIOR BEARING WALLS: RIOR NONBEARING WALLS: CTION:	0 HR 0 HR 0 HR 0 HR 0 HR
EXIT WIDTH: STAIRS: OTHER COMPONE	0.3" PER OCCUPANT NTS: 0.2" PER OCCUPANT	
EXIT ACCESS TRAVEL	DISTANCE (MAXIMUM LENG	GTH): 250 FEET
COMMON PATH OF EG	GRESS TRAVEL (MAXIMUM L	ENGTH): 75 FEET

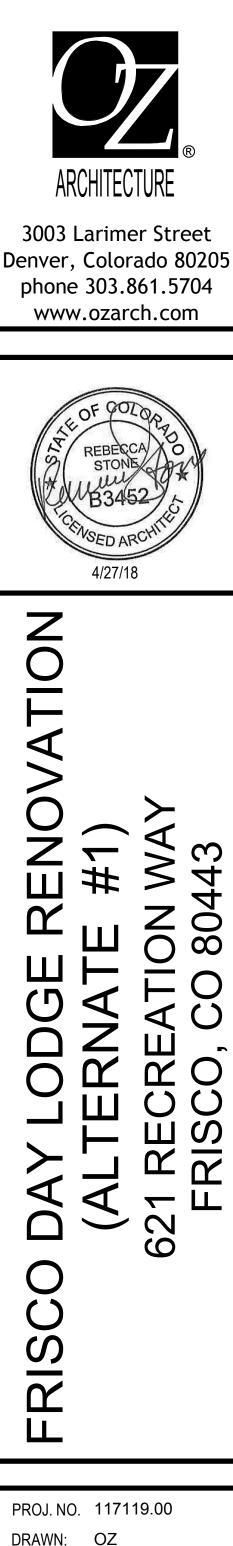
ROOF COVERING CLASSIFICATION (MINIMUM): CLASS C

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

CODE SHEET	GRAPHICS LEGEND
FW	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
	MED PATH OF TRAVEL - SEE HEDULE FOR TOTAL TRAVEL DISTANCE
EGRESS ATH	DIRECTION OF TRAVEL



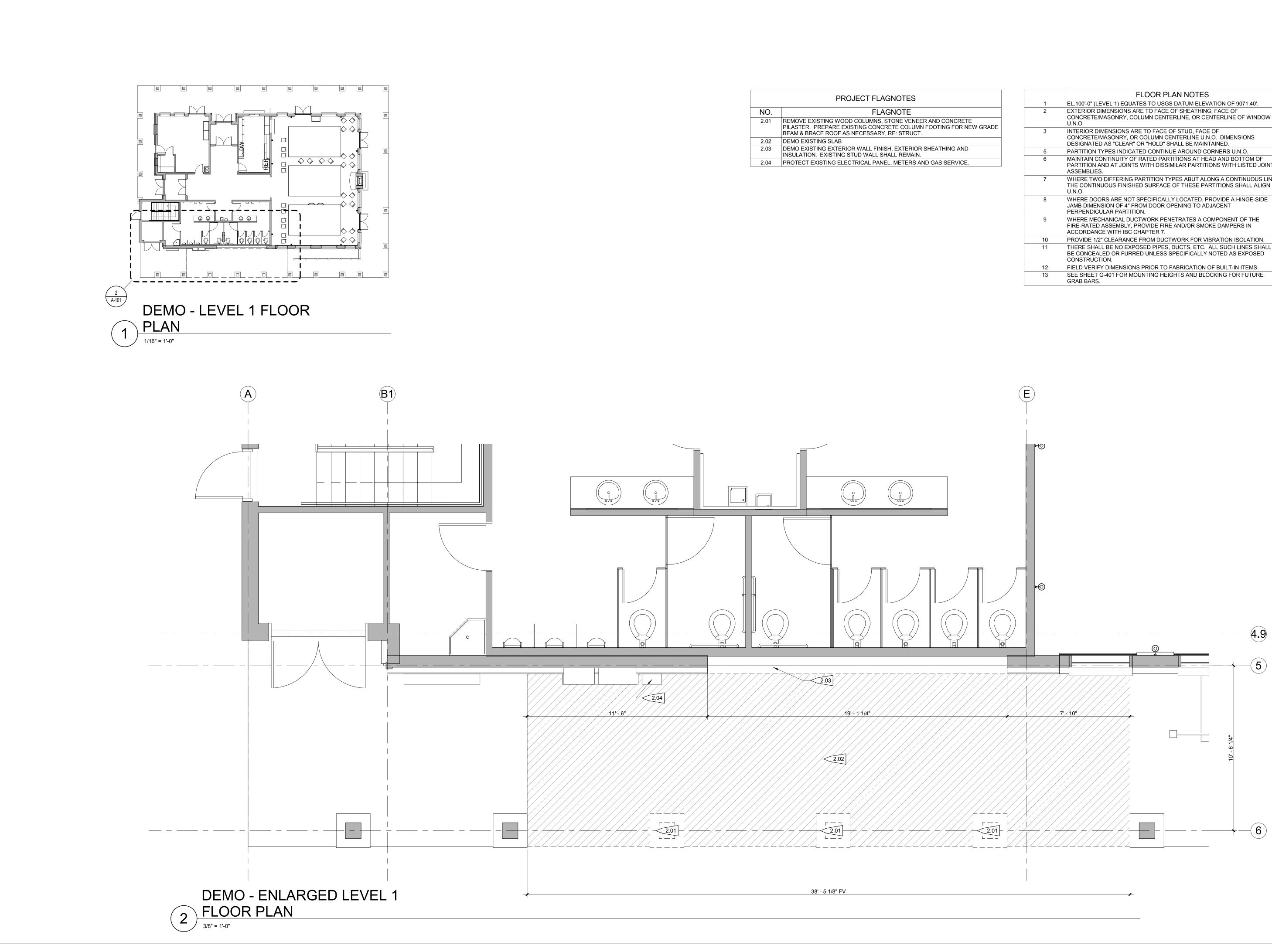


(ALTERNATE #1) ISSUED FOR: PERMIT SET

Sheet Title: Site Plan & Building Code Plan

SCALE: As indicated SHEET NUMBER

A-100



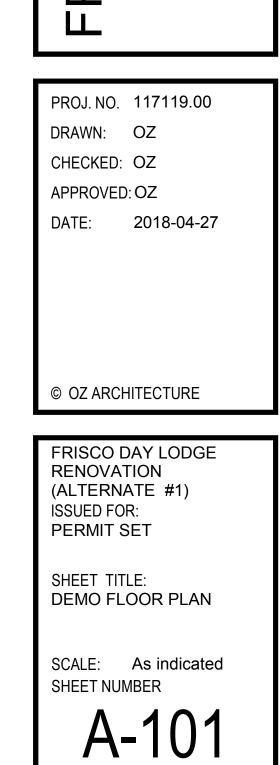
	PROJECT FLAGNOTES
NO.	FLAGNOTE
2.01	REMOVE EXISTING WOOD COLUMNS, STONE VENEER AND CONCR PILASTER. PREPARE EXISTING CONCRETE COLUMN FOOTING FOR BEAM & BRACE ROOF AS NECESSARY, RE: STRUCT.
2.02	DEMO EXISTING SLAB
2.03	DEMO EXISTING EXTERIOR WALL FINISH, EXTERIOR SHEATHING AI INSULATION. EXISTING STUD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

ARCHITECTURE	

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

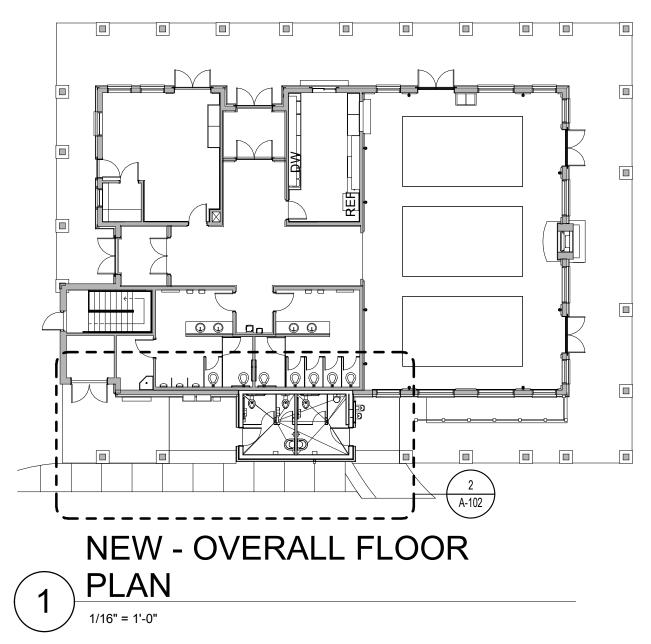


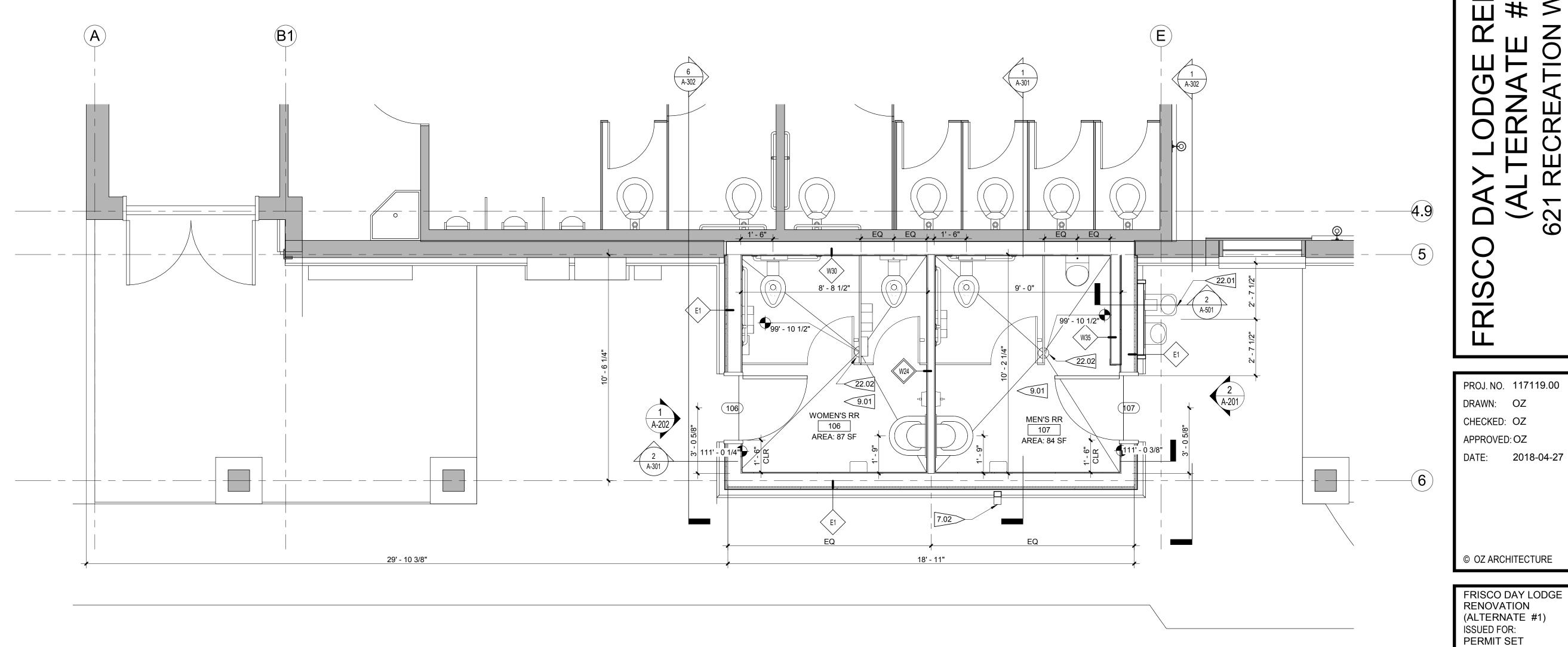
ATION Д Ш Х Ш Х က **0**8 ODGE O \mathbf{O} ZZ Ш 0 621 RECF FRISC **L FRISC**



$ \succ \square$
₫ ₹
Ū

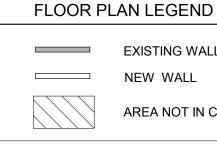
	FLOOR PLAN NOTES
1	EL.100'-0" (LEVEL 1) EQUATES TO USGS DATUM ELEVATION OF 9071.40'.
2	EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING, FACE OF CONCRETE/MASONRY, COLUMN CENTERLINE, OR CENTERLINE OF WINDOW U.N.O.
3	INTERIOR DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR COLUMN CENTERLINE U.N.O. 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.
10	CEE CLIEFT C 404 FOR MOUNTING LIFICUTS AND DLOCKING FOR FUTURE











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



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

FLOOR PLAN NOTES

EXTERIOR DIMENSIONS ARE TO FACE OF SHEATHING, FACE OF CONCRETE/MASONRY, COLUMN CENTERLINE, OR CENTERLINE OF WINDOW

EL.100'-0" (LEVEL 1) EQUATES TO USGS DATUM ELEVATION OF 9071.40'.

INTERIOR DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR COLUMN CENTERLINE U.N.O. DIMENSIONS

MAINTAIN CONTINUITY OF RATED PARTITIONS AT HEAD AND BOTTOM OF

PARTITION AND AT JOINTS WITH DISSIMILAR PARTITIONS WITH LISTED JOINT

WHERE TWO DIFFERING PARTITION TYPES ABUT ALONG A CONTINUOUS LINE, THE CONTINUOUS FINISHED SURFACE OF THESE PARTITIONS SHALL ALIGN

WHERE DOORS ARE NOT SPECIFICALLY LOCATED, PROVIDE A HINGE-SIDE

WHERE MECHANICAL DUCTWORK PENETRATES A COMPONENT OF THE

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

FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION OF BUILT-IN ITEMS.

SEE SHEET G-401 FOR MOUNTING HEIGHTS AND BLOCKING FOR FUTURE

FIRE-RATED ASSEMBLY, PROVIDE FIRE AND/OR SMOKE DAMPERS IN

PARTITION TYPES INDICATED CONTINUE AROUND CORNERS U.N.O.

DESIGNATED AS "CLEAR" OR "HOLD" SHALL BE MAINTAINED.

JAMB DIMENSION OF 4" FROM DOOR OPENING TO ADJACENT

2

6

8

9

10 11

12

13

U.N.O.

U.N.O.

ASSEMBLIES.

CONSTRUCTION.

GRAB BARS.

PERPENDICULAR PARTITION.

ACCORDANCE WITH IBC CHAPTER 7.



 \mathbf{C}

80

 \odot

Ο

 \odot

LL

Я N N U

Ο

1

Ш R

 \mathbf{O}

62

FΟ

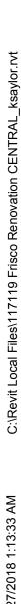
0

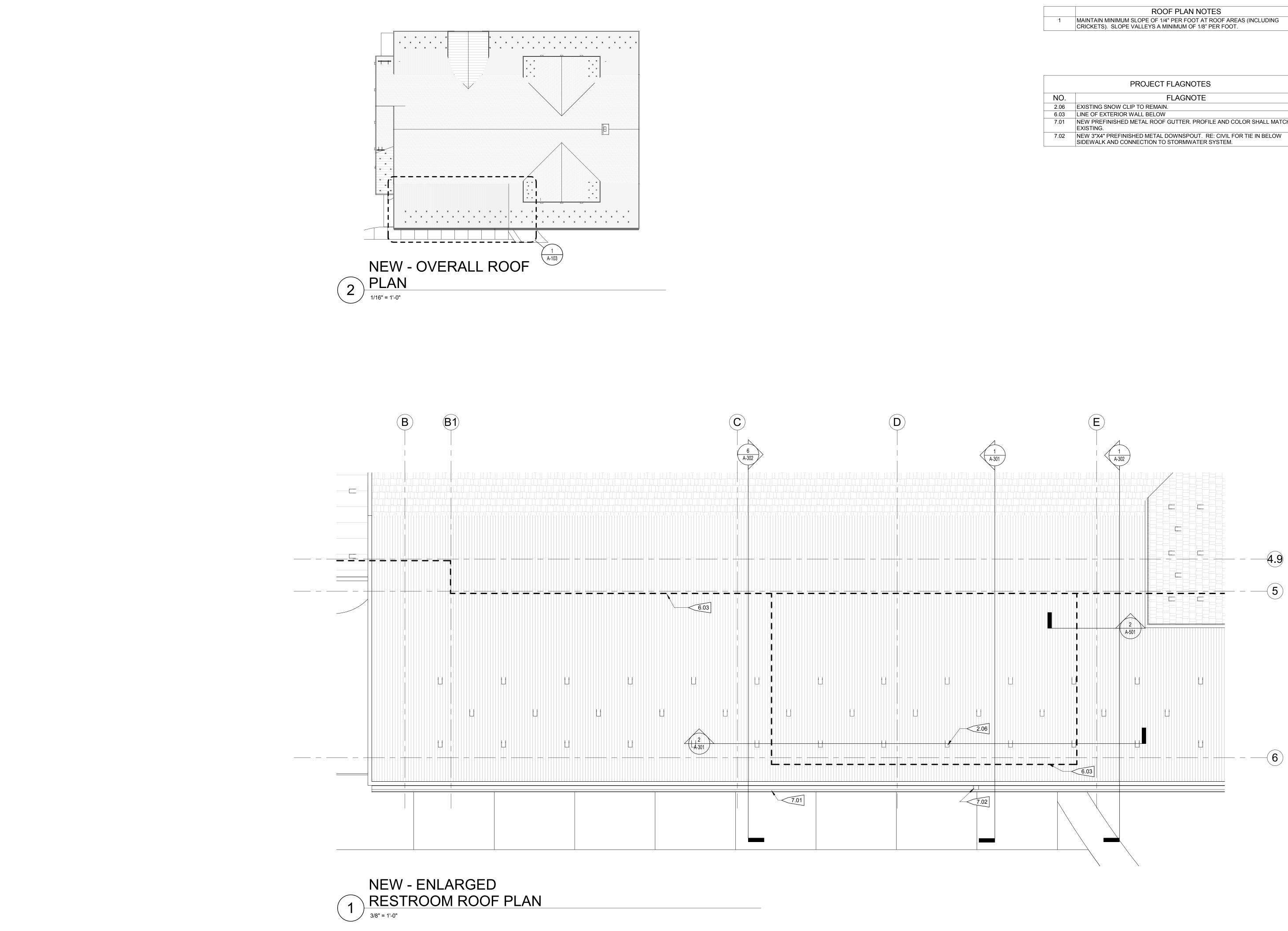
F

SCALE: As indicated SHEET NUMBER

A-102

SHEET TITLE: FLOOR PLAN





ROOF PLAN NOTES	
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.



ARCHITECTURE

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

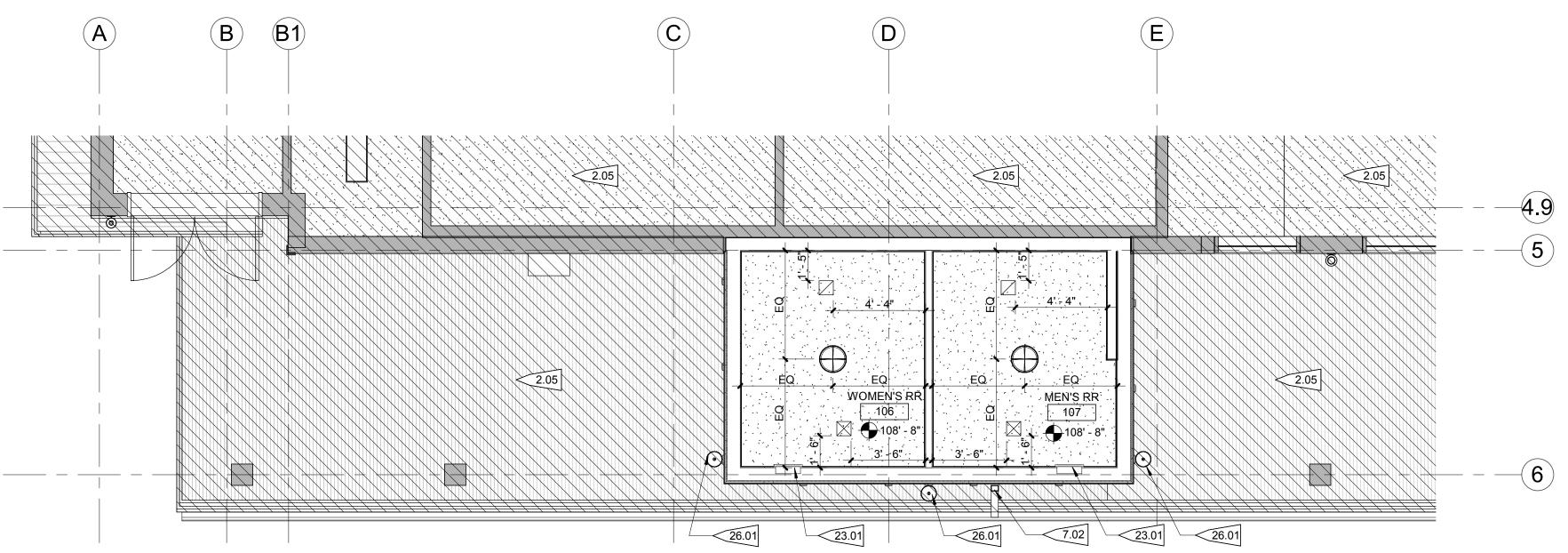
sheet title: Roof plan

SCALE: As indicated SHEET NUMBER

A-103







	REFLECTED CEILING PLAN NOTES	
F L S A	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.	
C	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.	ARCHITECTURE
	DIMENSIONS ARE TO FINISH U.N.O.	
	ACCESS PANELS NOT SHOWN, BUT IF REQUIRED BY PLUMBING, MECHANICAL, OR ELECTRICAL SYSTEMS, SHALL BE REVIEWED WITH ARCHITECT FOR LOCATION.	3003 Larimer Street Denver, Colorado 80205
5. C	COORDINATE LOCATION OF FIRE SPRINKLER HEADS WITH ARCHITECT.	
E	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.	phone 303.861.5704 www.ozarch.com
	PROJECT FLAGNOTES	
NO.	FLAGNOTE	OF GOLDO

2.05 DIAGONAL HATCH DENOTES EXISTING CEILING TO REMAIN.

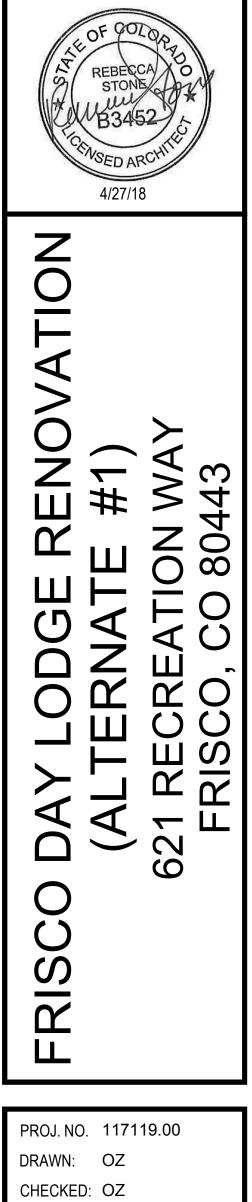
23.01 WALL MOUNTED CABINET HEATER, RE: MECH

26.01 WALL SCONCE, RE: ELEC

7.02 NEW 3"X4" PREFINISHED METAL DOWNSPOUT. RE: CIVIL FOR TIE IN BELOW SIDEWALK AND CONNECTION TO STORMWATER SYSTEM.

CE	EILING PLAN LEGEND
	GYP. BOARD
	EXISTING CEILING TO REMAIN

7.02 23.01 26.01



APPROVED: OZ DATE: 2018-04-27

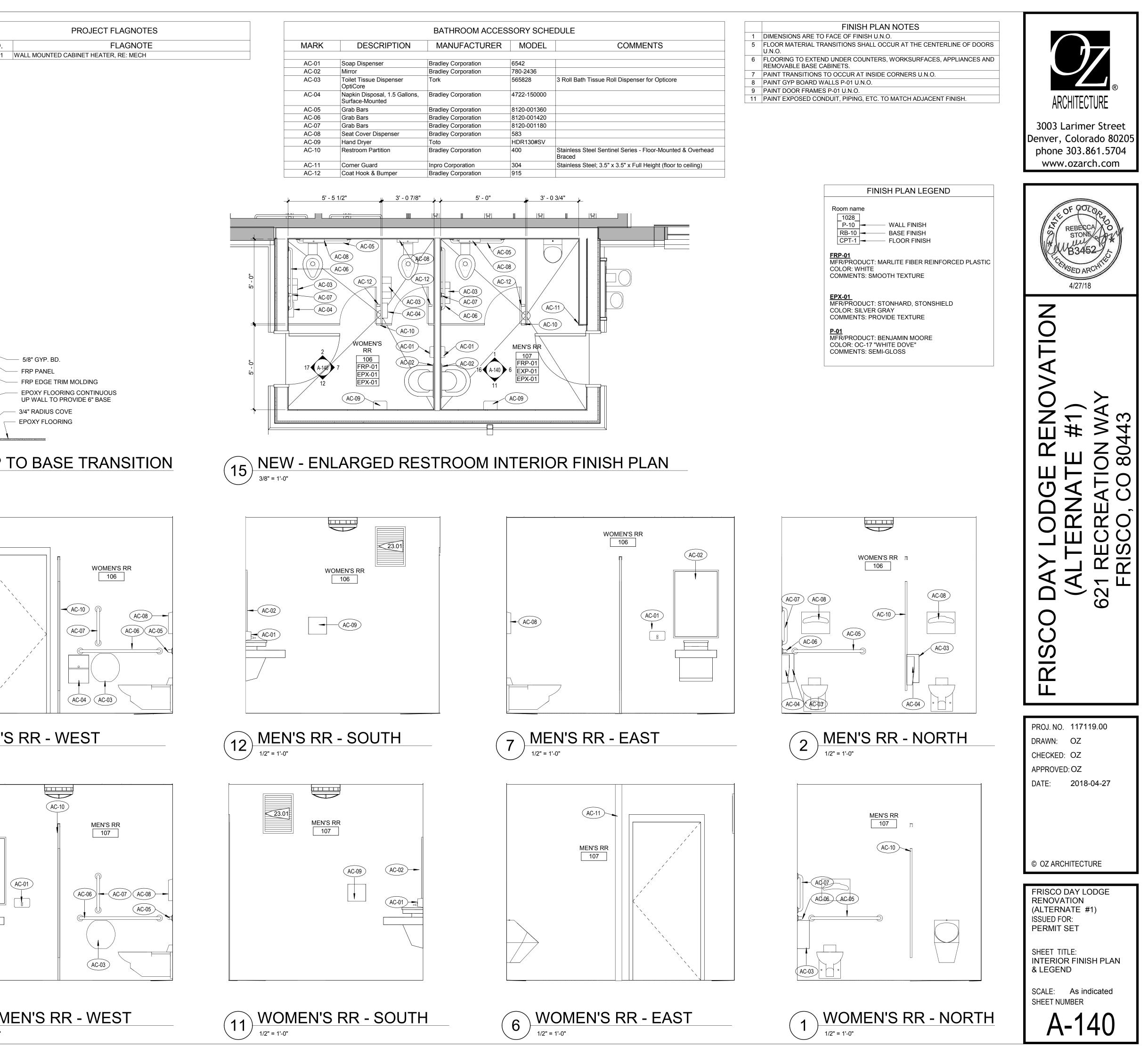
FRISCO DAY LODGE RENOVATION (ALTERNATE #1) ISSUED FOR: PERMIT SET

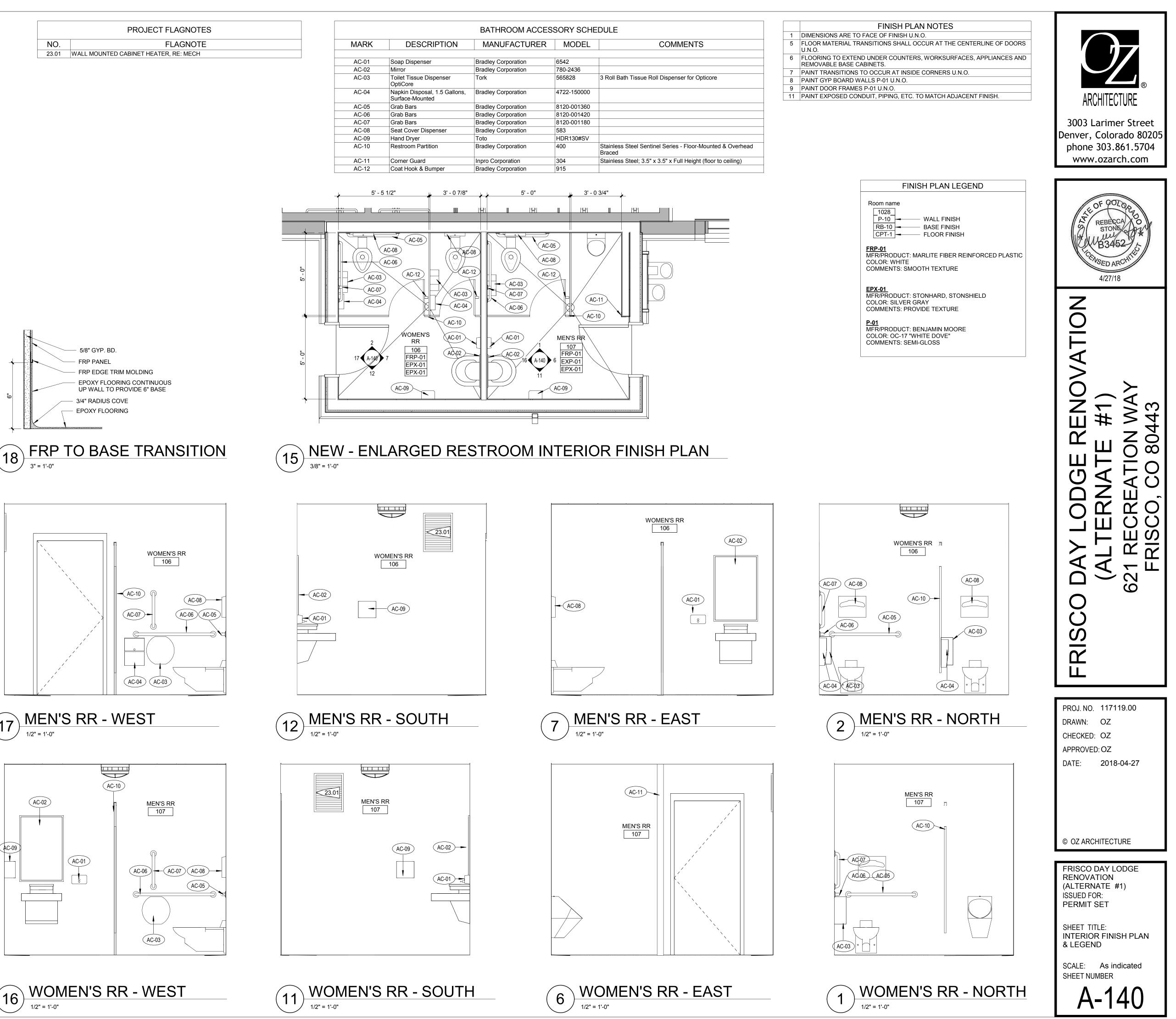
© OZ ARCHITECTURE

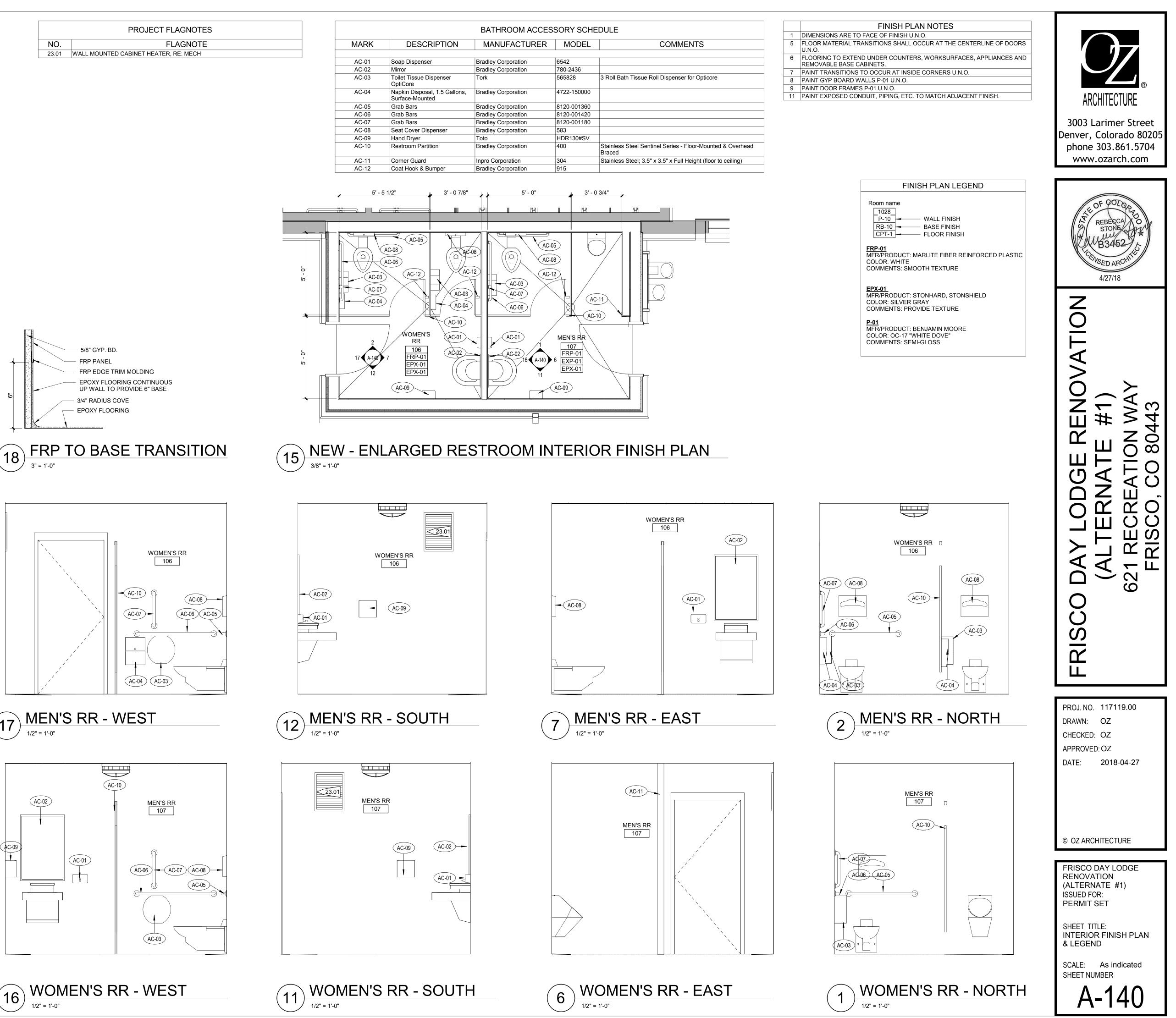
SHEET TITLE: LEVEL 1 RCP

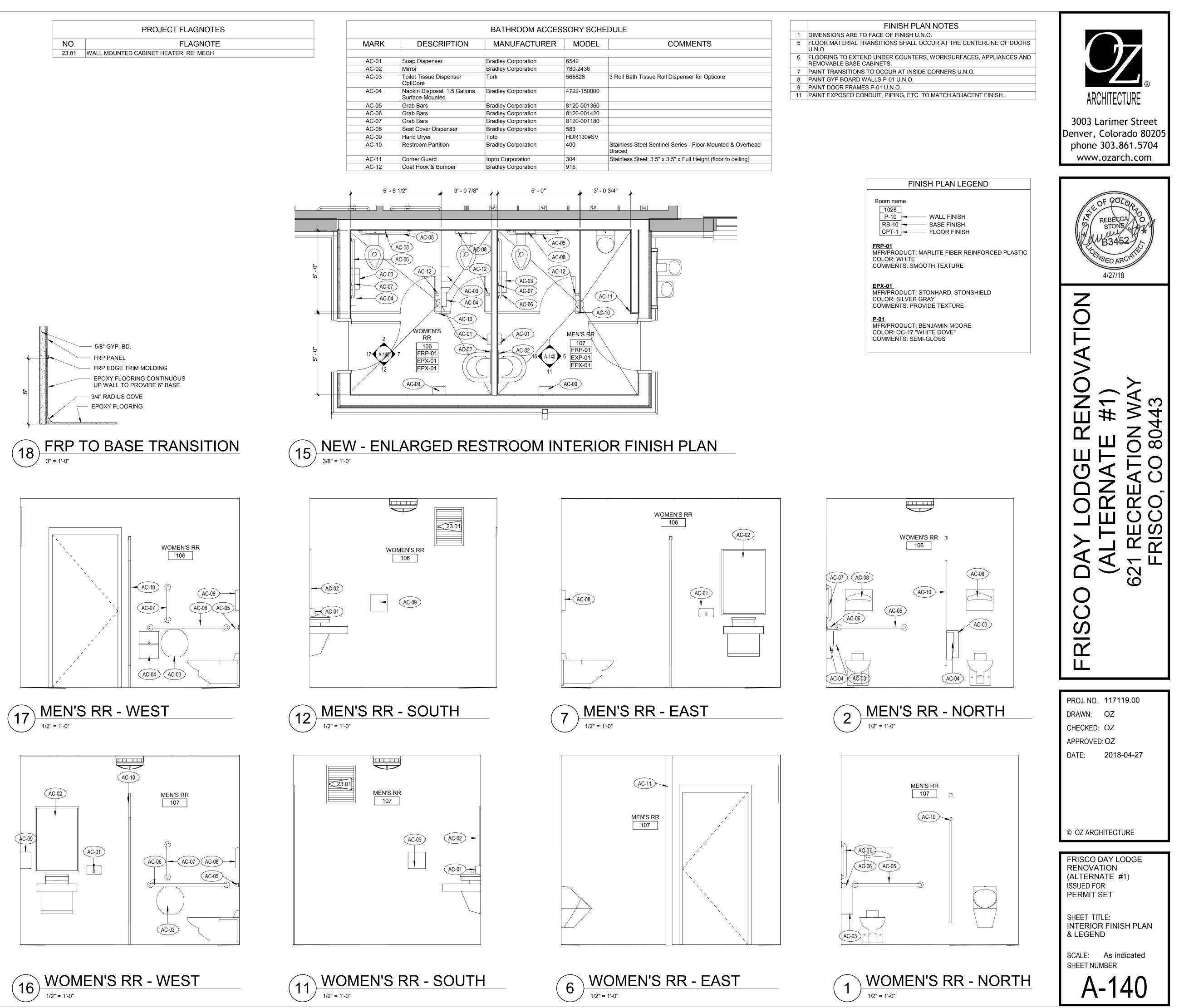
SCALE: As indicated SHEET NUMBER

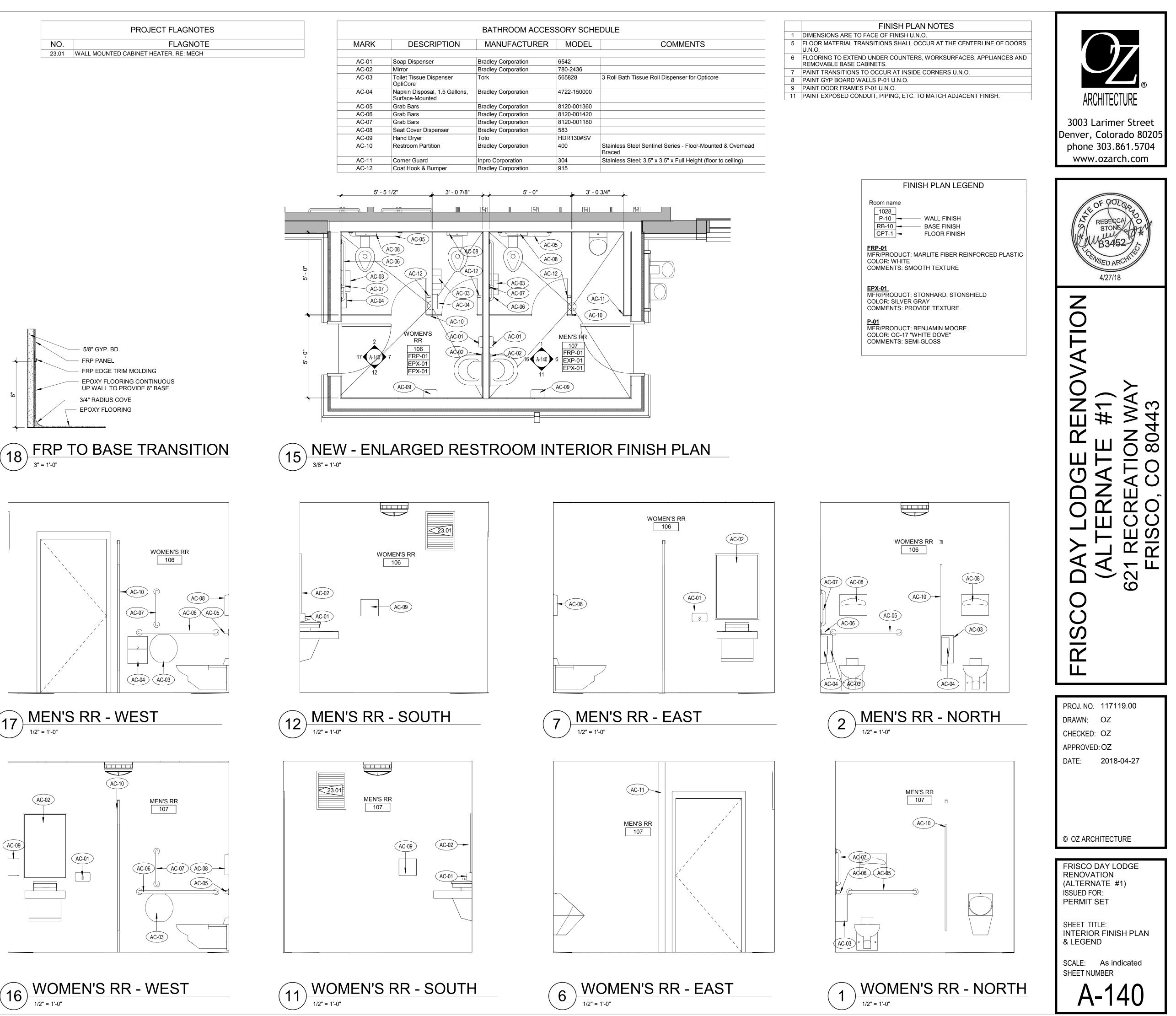
A-131

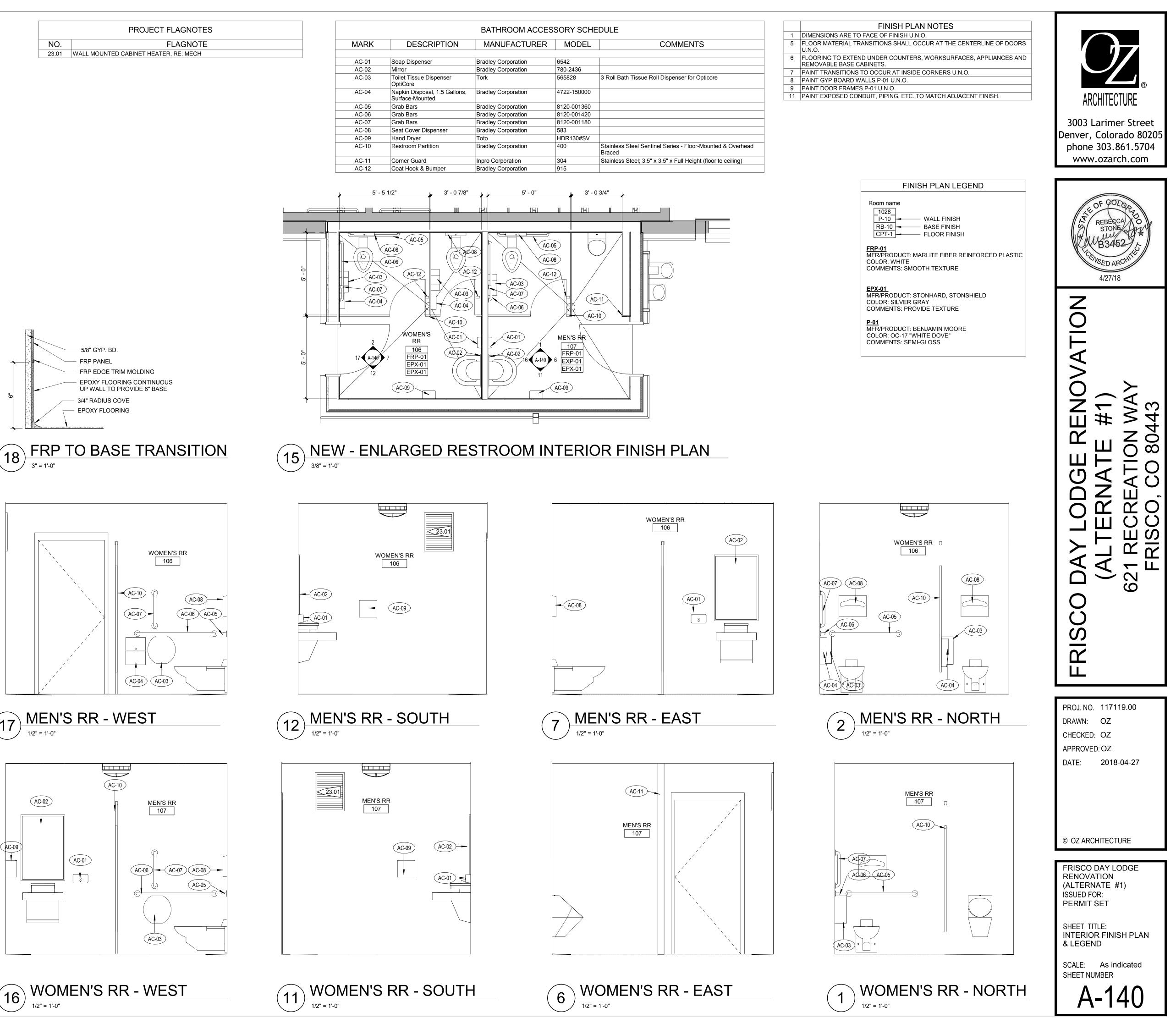


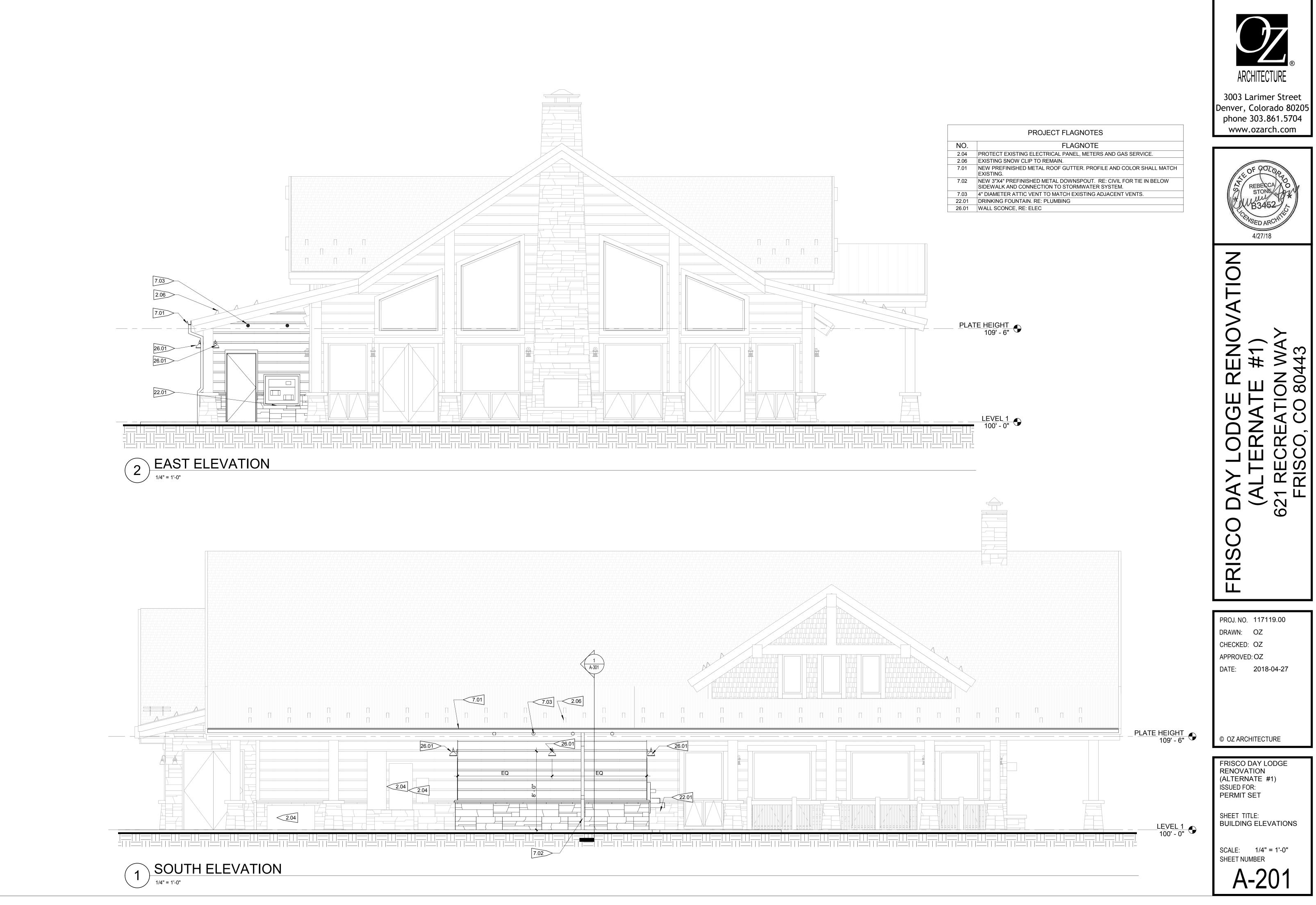


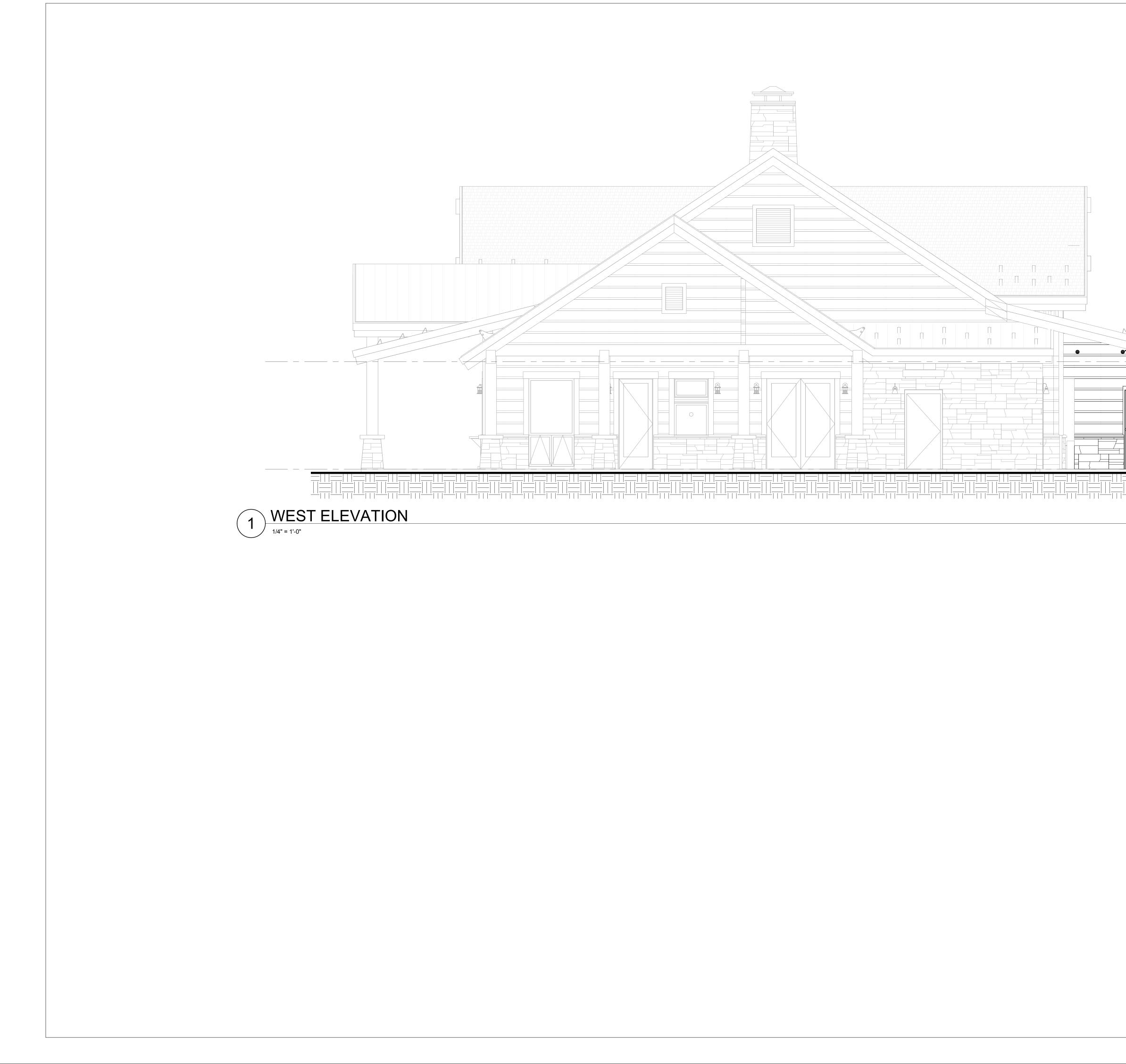




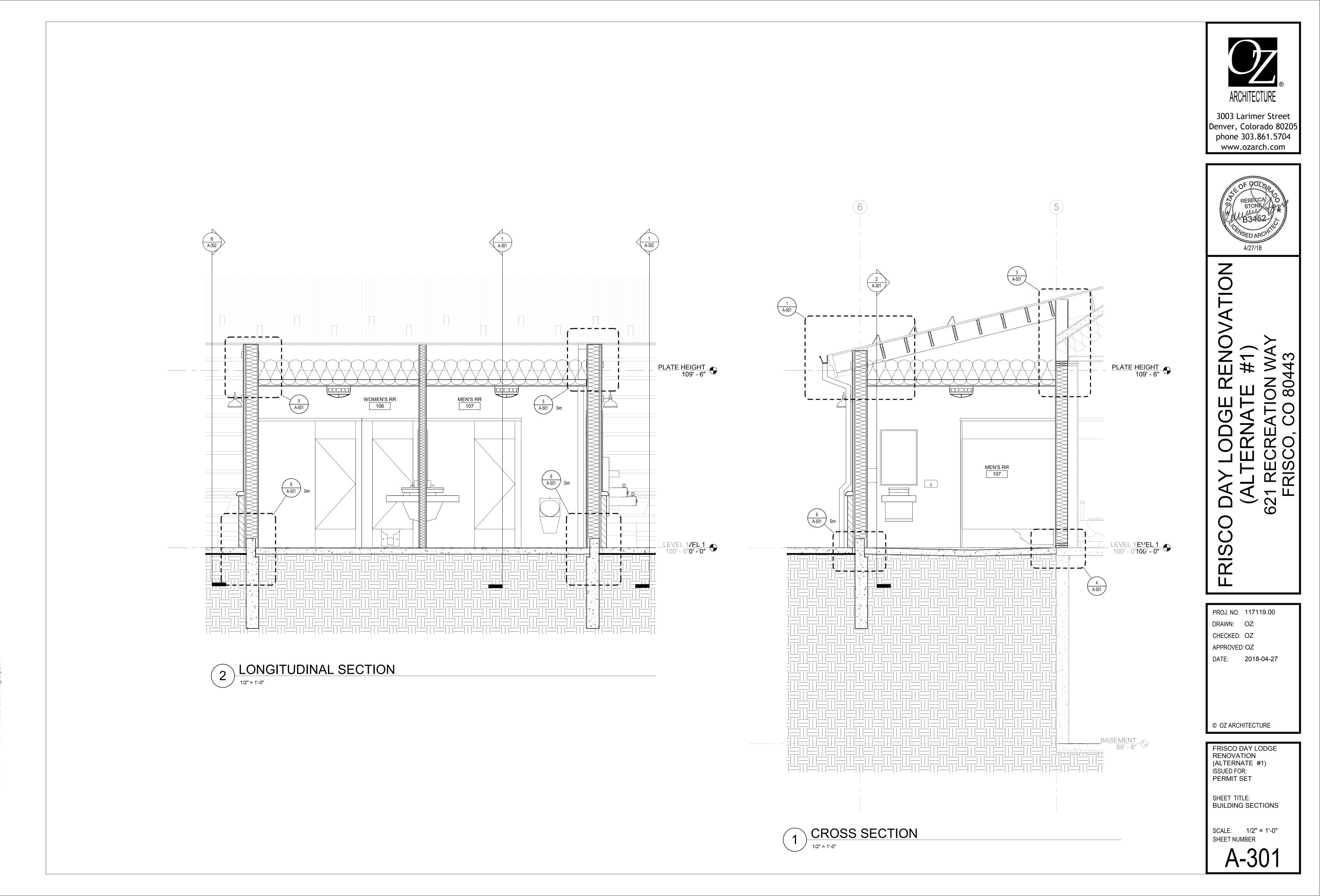


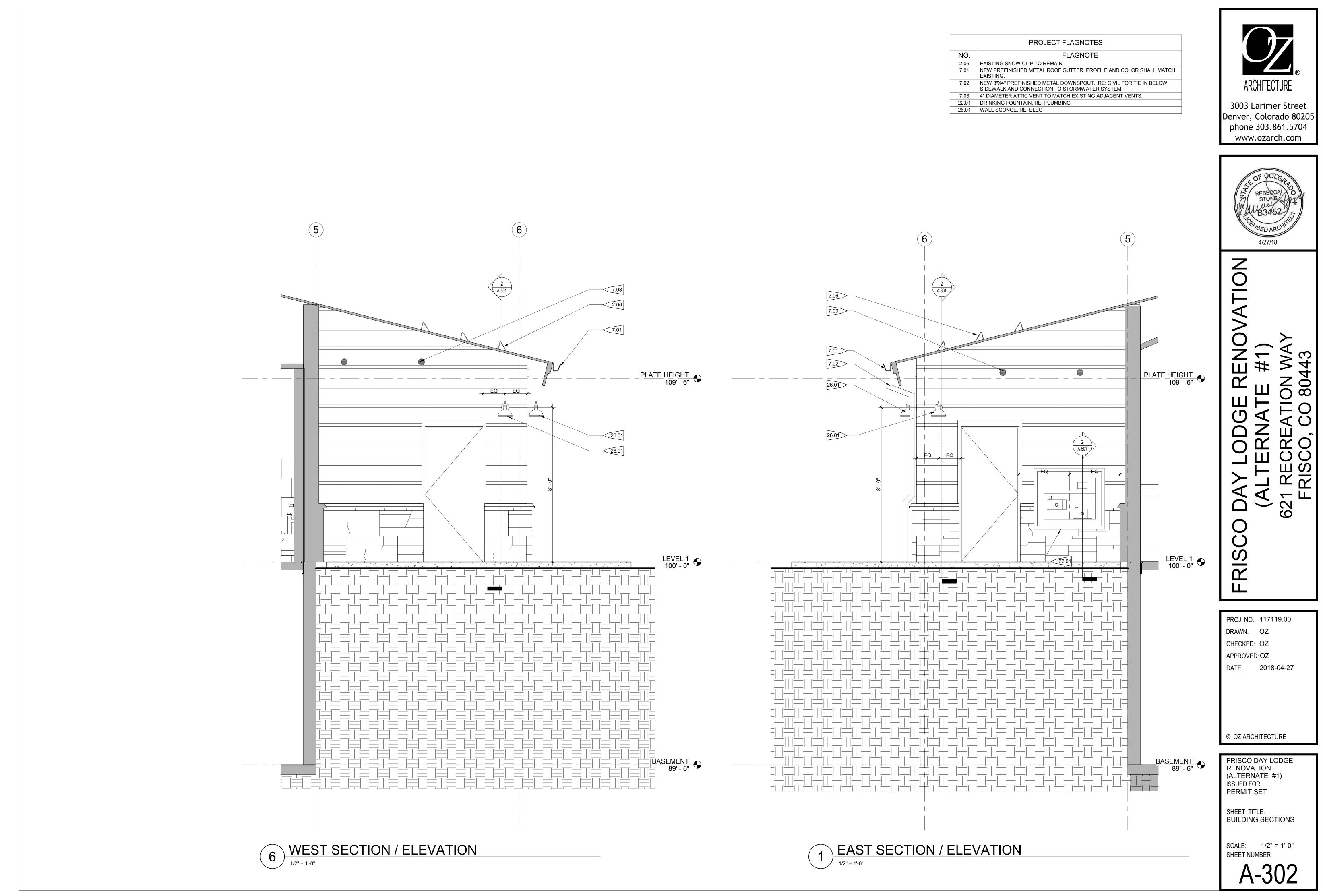


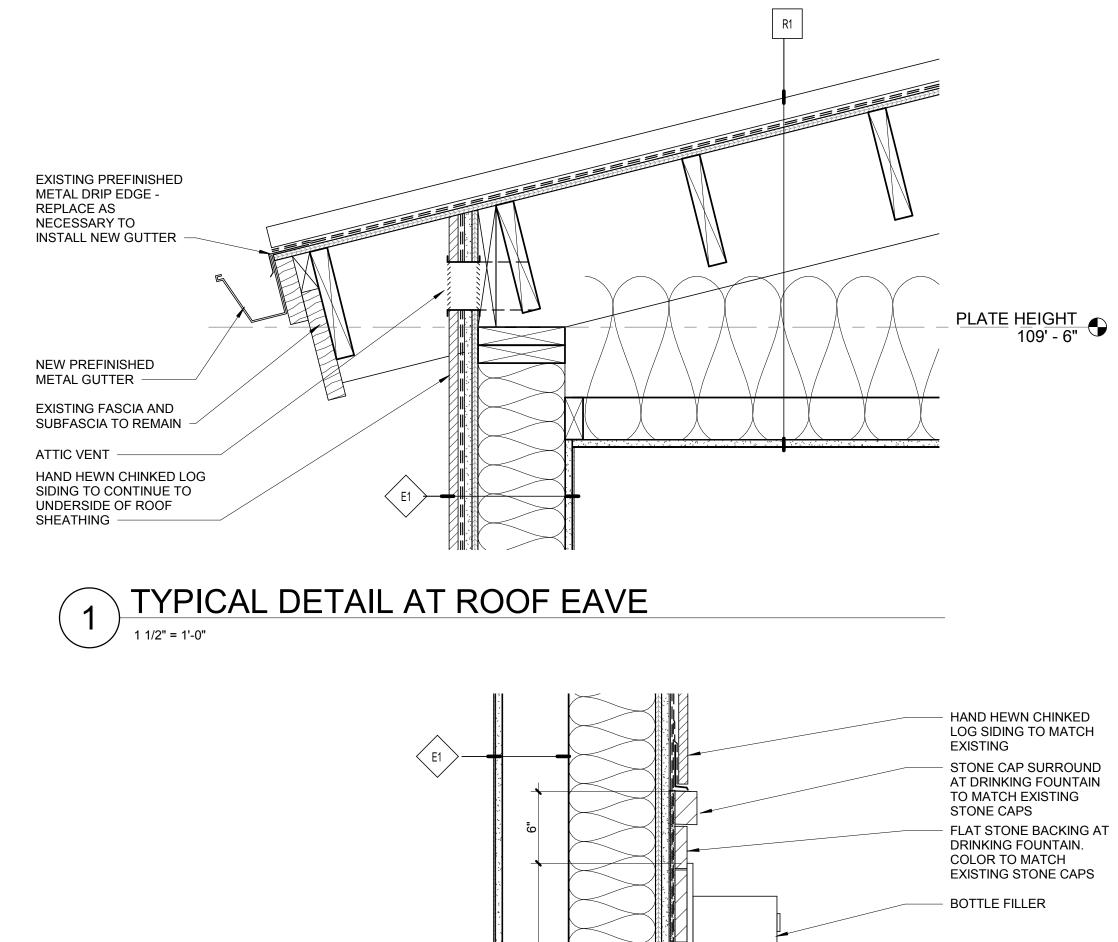


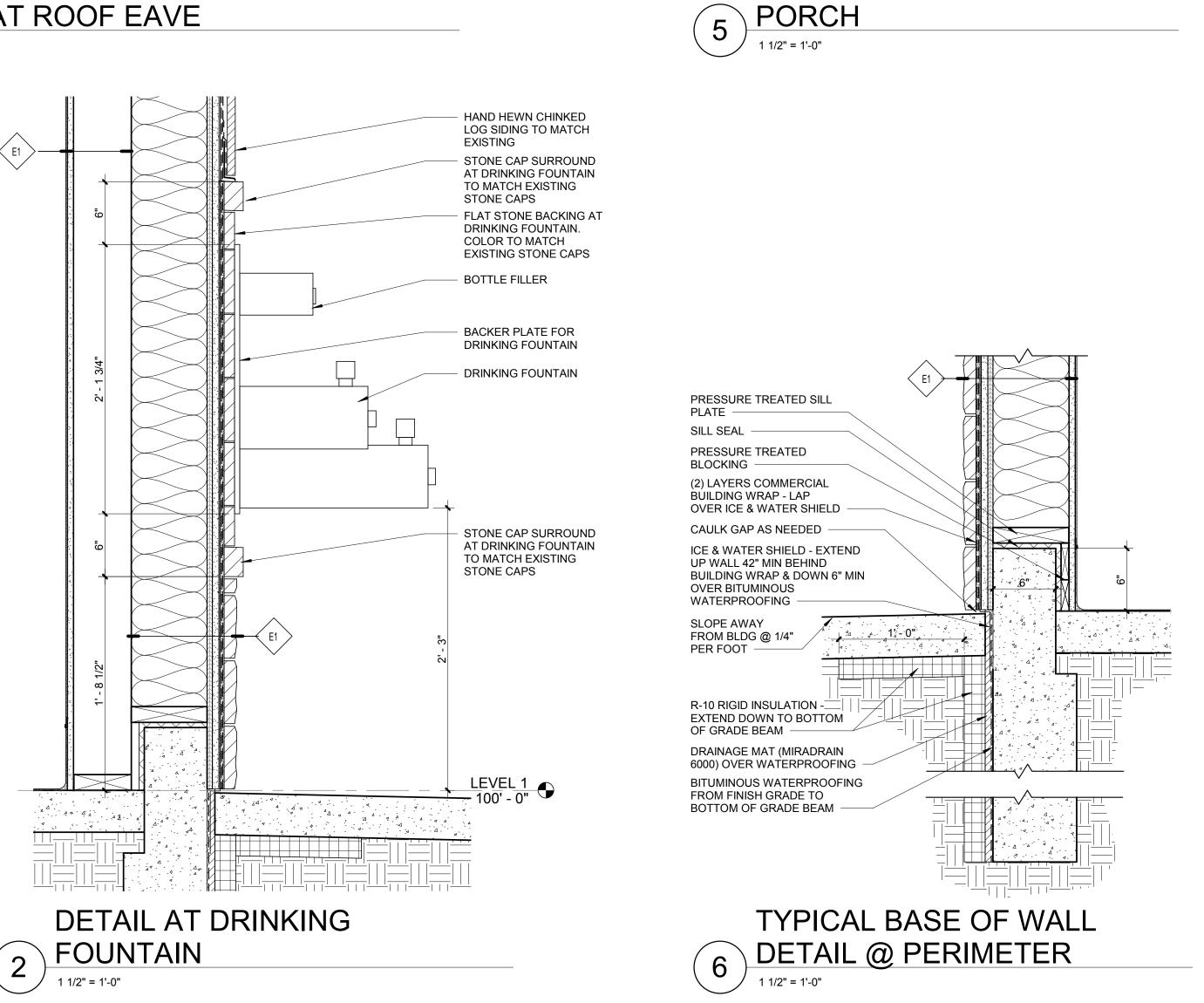


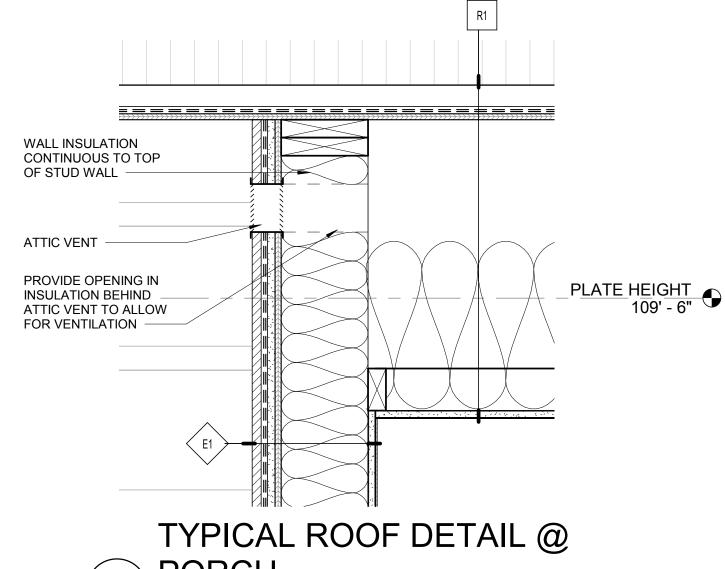
NO. 2.06 7.01 7.02 7.03 26.01	PROJECT FLAGNOTES FLAGNOTE EXISTING SNOW CLIP TO REMAIN. NEW PREFINISHED METAL ROOF GUTTER. PROFILE AND COLOR SHALL MATCH EXISTING. NEW 3"X4" PREFINISHED METAL DOWNSPOUT. RE: CIVIL FOR TIE IN BELOW SIDEWALK AND CONNECTION TO STORMWATER SYSTEM. 4" DIAMETER ATTIC VENT TO MATCH EXISTING ADJACENT VENTS. WALL SCONCE, RE: ELEC	Image: Constraint of the second se
	703 200 701 PLATE HEIGHT 109'-6' 200 <tr< th=""><th>FRISCO DAY LODGE RENOVATION (ALTERNATE #1) 621 RECREATION WAY FRISCO, CO 80443</th></tr<>	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: BUILDING ELEVATIONS SCALE: 1/4" = 1'-0" SHEET NUMBER A-2022

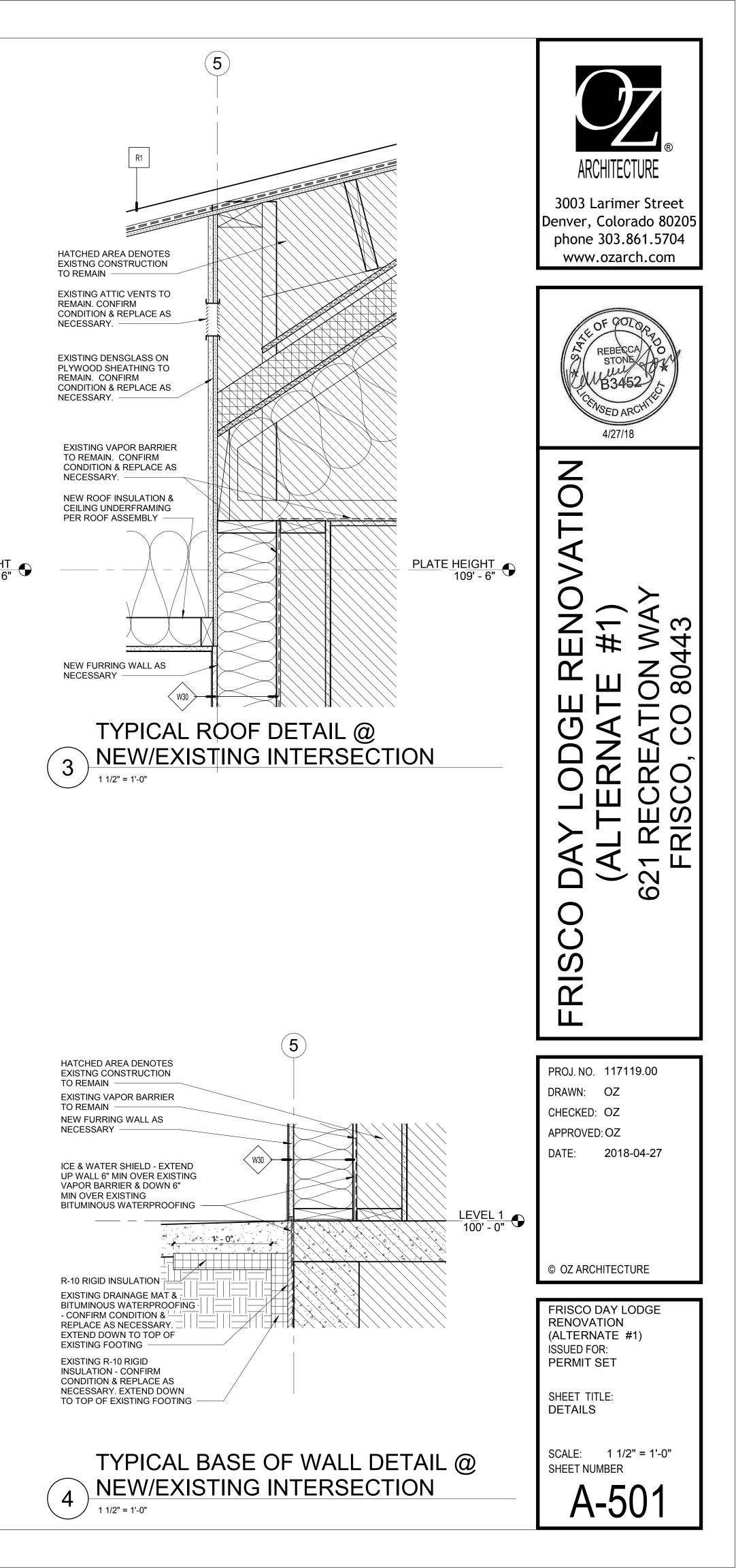




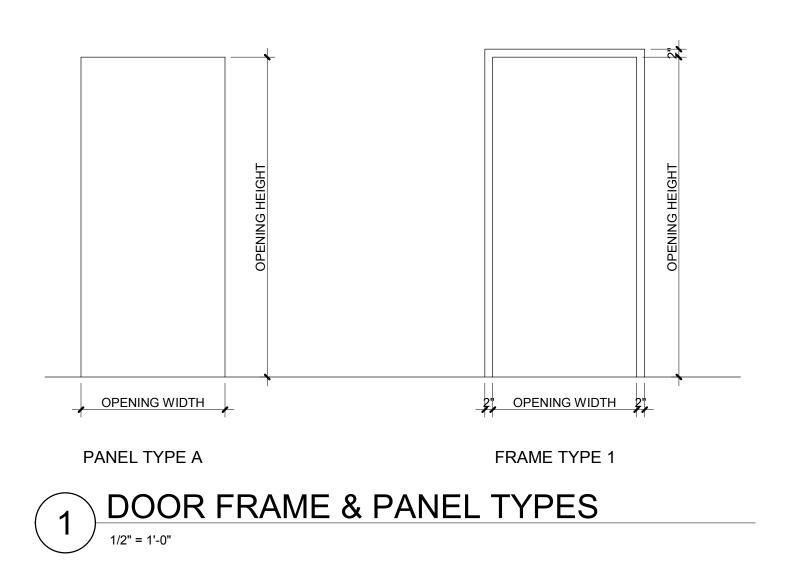


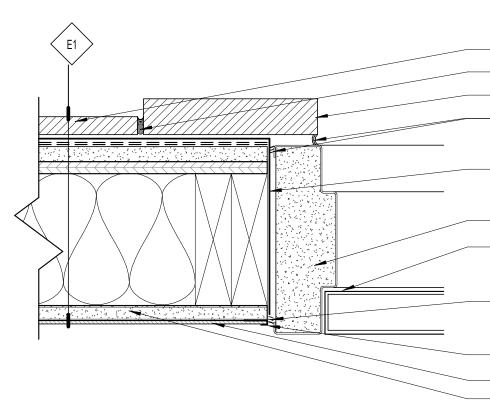




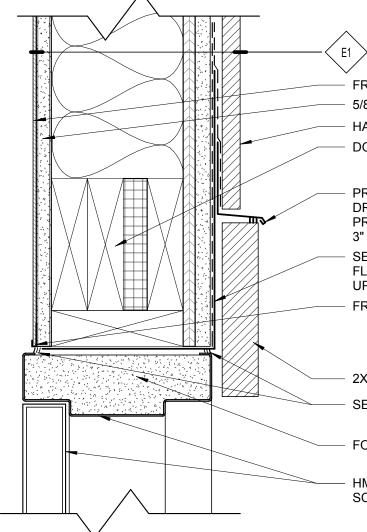


							DOOR SCHEDU	JLE				
				DOOR			ASSEMBLY			FRAME		
DOOR	PANEL	OPENING					CODE RATING	HARDWARE	FRAME			
NUMBER	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	(MIN.)	SET NO.	TYPE	MATERIAL	FINISH	COMMENTS
106	А	3' - 0"	7' - 0"	1 3/4"	HM	PT 1	0	01	1	HM	PT 1	PROVIDE INSULATED DOOR W/ 0.3 MAX UFACTOR
107	A	3'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





3" = 1'-0"



✓
✓
FRP PANEL
5/8" GYP. BD.
HAND HEW CHINKED LOGS SIDING
DOOR HEADER, RE: STRUCT

 PRE-FINISHED METAL FLASHING W/ DRIP EDGE SET IN SEALANT; PROVIDE 1/2" GAP ABOVE; PROVIDE 3" MIN VERTICAL LEG
 SELF ADHERED FLEXIBLE HEAD FLASHING - WRAP INTO R.O. AND LAP

- FRP EDGE TRIM MOLDING

- 2X8 WOOD TRIM, STAINED - SEALANT

- FOAM SEAL FRAME CAVITY

- HM. DOOR & FRAME, RE: DOOR SCHEDULE

EXTERIOR DOOR HEAD @

2 SIDING 3" = 1'-0"

HAND HEW CHINKED LOGS SIDING
1/4" BACKER ROD & SEALANT
2X8 WOOD TRIM, STAINED
SEALANT

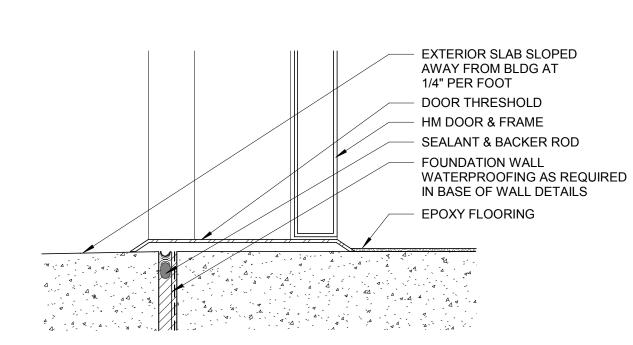
SELF ADHERED FLEXIBLE FLASHING -WRAP INTO R.O. AND 6" BEYOND WOOD TRIM

FOAM SEAL FRAME CAVITY HM. DOOR & FRAME, RE: DOOR SCHEDULE

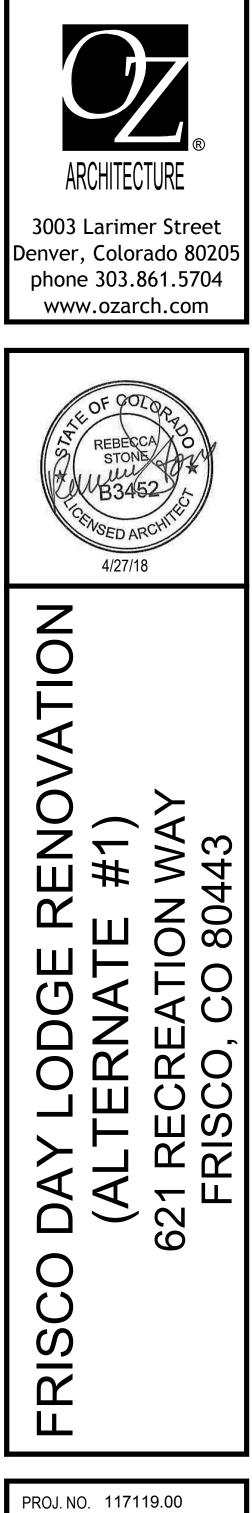
SEALANT

FRP EDGE TRIM MOLDING
FRP PANEL
5/8" GYP. BD.





DOOR THRESHOLD DETAIL



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

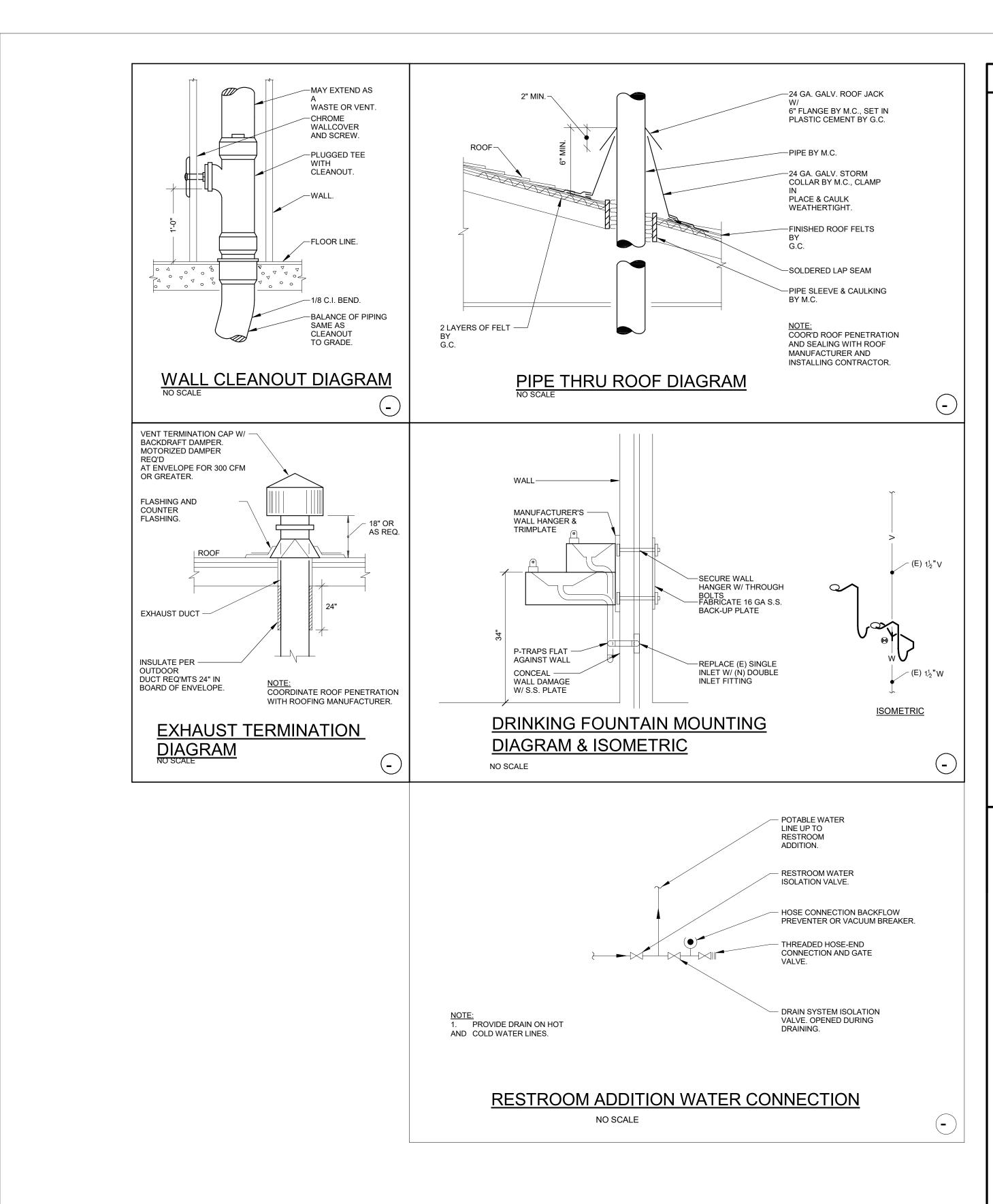
© OZ ARCHITECTURE

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

SHEET TITLE: DOOR SCHEDULE & DETAILS

SCALE: As indicated SHEET NUMBER

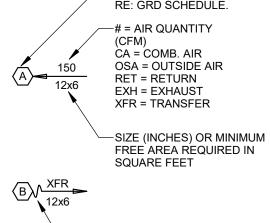
A-601



			Ν	1ECI	HANI	CAI	L S	Y	STEN	/IS LI	ΞG	END
			DUCTWO	ORK LEG	END						Ρ	IPING
-	RO	UND	DE	SCRIPTIC	DN	F	RECTA	NGL	JLAR	PLUME	ING P	PING
	3D	PLAN				Р	LAN		3D	— C/	V—	DOMESTIC
	9		DUC	T RISER					\sim	— H\		DOMESTIC
		● ● ◎ Ø								— HW	/C—	HOT WATE
_									\rightarrow	W		WASTE VENT
	\mathcal{A}		(NEGATIV							<u> </u>)—	SECONDA
_			90° El (POSITIV	LBOW DN E PRESS			\square					
	η		90° E (NEGATIV	LBOW UI E PRESS			Ι		\mathbb{N}			PIPIN
	G		90° E (POSITIV	LBOW UI E PRESS			X			G		90° ELBOV 90° ELBOV
(\mathcal{A}		SIZE OR SH	APE TRAI	NSITION			6				TEE DOWN
_	\sim		ROUND FI	LEXIBLE	DUCT		, ,	 А				TEE UP BUTTERFL
_	~~~		CON	NECTION	1				ION			SHUT OFF
	\bigcirc		90° RAE	DIUS ELB	OW	<u>{</u> Т	\mathcal{D}	6				GLOBE VA
_			90° MITE	RED ELE	BOW							FLOW CON
_		-	W/ TURI	NING VAI	NES		L	Ŭ		c		BALL VAL\
			90° STF	RAIGHT T	ΈE		\mathbf{P}	6		¢		PLUG OR E
_							,- i 				<u> </u>	PLUG VAL
	S ICS		90° CC	NICAL TI	EE		Ţ	$ \in$		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	-	GATE OR
			45°	BRANCH			ਨਿ	K		7	<u>//</u>	DRAIN VAL
_												TEMPERA
	S		45° CONI	CAL BRA	NCH	4	\sum	6				PRESSURI
_	Â	L. L	COMBINA	TION FIR	E AND	Γ			\leq			SOLENOID
_	O Ir		SMOK	e dampe	ER		● _{F/S}					VENTURI/F
	P		FIRE	DAMPEF	R		۲	6	$\widehat{\mathbb{D}}$			PUMP & E
_			0.40%							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	DOUBLE C
_	O		SMOK	E DAMPE	:R		β		The second	\rightarrow	<u> </u>	PIPE ANCH
	S		MANUAL BAL	ANCING	DAMPER			٤	F			FLEXIBLE
_	(J)		MOTORI	ZED DAM	IPER			É			÷	SAFETY R
_			BACKDR	AFT DAM	IPER] BDD	ĸ				PRESSURI
_			OFFSET TO C	HANGE F			 २			<u>ז</u>)	PRESSURI
_				OP R=R				[ا ۲ ا		THERMOM
	-	14ø	DUCT FIRST NUMBI	SIZE TA ER = PLA		14>	(12 }		-			VACUUM E
-										I		VERTICAL
												FLOOR DR
	F	IXTUR	E CONNI	ECTI	ON SC	HE	DUL	E				FLOOR SIN
_				ABBR	HW	CW	WAS	TE	VENT	<u>با</u>	+	STRAINER
_	WATER CL	OSET (FLUS	H VALVE)	WC	-	1"	4"		2"			SHOCK AB
_			H TANK)	WCT	-	1/2"	4" 2"		2"			FLOW SW
_	URINAL (BL	ASHDOWN)		UR	-	3/4"	2"		1-1/2"	⊢+в∨	V L L	HOSE BIBE
_		ATERLESS)		UR	-	-	2"		1-1/2"			TEMPERA
_	LAVATORY	,		LAV	1/2"	1/2"	1-1/		1-1/2"			
_			EWC	HS DF	1/2"	1/2"	1-1/		1-1/2"			
_	FLOOR DR	FOUNTAIN /	E.W.C.	FD	-	1/2"	1-1/2 2"		1-1/2"			AIF
_	HOSE BIB			НВ	-	3/4"	-		-			DESIG
_												~
	NOTES:											
			E MINIMUM PIPE ICATED ON PLA				JRE. L	ARG	īΕK		/	
	2. MINIMU	JM DOMEST	IC PIPE SIZE TO	2 OR M	ORE FIXTU	RES IS	3/4".				(A)-	150
		ANUFACTURI E SIZES.	ER'S INSTALLAT	FION INS ⁻	TRUCTION	S FOR I	NDIRE	СТ				12x6
			SIZES SHOWN	ABOVE A	APPLY TO I	NDIVID	UAL V	ENT	ING			
	ONLY. OMITT	WHERE ALL	OWED, INDIVID	UAL VEN HEN CIRC	T CONNEC	TIONS 5, COM	MAY E Mon \	BE /ENT	rs,			ζ.
	SYSTE	MS ARE USE	NTS, WET VENT ED. PRIOR APP	ROVAL F	ROM THE I	ENGINE	ER IS		NT			XFR
					-			<u> </u>			<u>⟨</u> ₿ _Ŋ	12x6
			SERVICE ARE		TAINS AND	, loo	r sini	10 N				
	6. MINIMU	JM SIZE FOF	R WASTE AND V	ENT PIPI	NG BENEA	TH SLA	AB IS 2	".				·
		-	TED ARE NOT N	-	-				CT.			OTE: DR STANDAI
	8 REFER		NCE SCHEDULE	S (BY OT	HERS) FO		τιονία	1				

LEG	END
Р	IPING DESIGNATIONS
UMBING P	IPING
- CW—	DOMESTIC COLD WATER (CW)
– HW—	DOMESTIC HOT WATER (HW)
-HWC—	HOT WATER RECIRCULATION (HWC)
– w —	WASTE
- v —	VENT
– SD —	SECONDARY DRAIN
	PIPING SYMBOLS
e——	90° ELBOW DN
<u> </u>	90° ELBOW UP
	TEE DOWN
_ o	TEE UP
[BUTTERFLY VALVE
	SHUT OFF (BALL, GATE, BUTTERFLY)
—bsj	GLOBE VALVE
-Á	CHECK VALVE
	FLOW CONTROL VALVE
—a—	BALL VALVE
	PLUG OR BALANCING VALVE
	FLOW BALANCING VALVE
لين ال	PLUG VALVE IN RISER
	GATE OR GLOBE VALVE IN RISER
A line	DRAIN VALVE W/ HOSE END
这	TEMPERATURE CONTROL VALVE (2-WAY)
小	TEMPERATURE CONTROL VALVE (3-WAY)
	PRESSURE REDUCING VALVE
_₩	SOLENOID VALVE
	VENTURI/FLOW INDICATOR
-600	PUMP & EQUIPMENT CONNECTOR
₹7	DOUBLE CHECK BACKFLOW PREVENTER
	PIPE EXPANSION JOINT
	SAFETY RELIEF VALVE
\$	AIR VENT
\uparrow	PRESSURE - TEMP. TAP
ģ	PRESSURE GAUGE W/ PIG TAIL & COCK
 []	
	THERMOMETER
စု	
0	HORIZONTAL CLEANOUT
<u> </u>	
	FLOOR DRAIN
₽ ₽	STRAINER W/ BLOW-OFF VALVE
_≈-D F9≈	FLOW SWITCH
Ч° - в w + н	
v <u>+</u> H	HOSE BIBB or WALL HYDRANT
	TEMPERATURE CONTROLLER OR SENSOR
	L
	DESIGNATION KEY

- 8. 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.



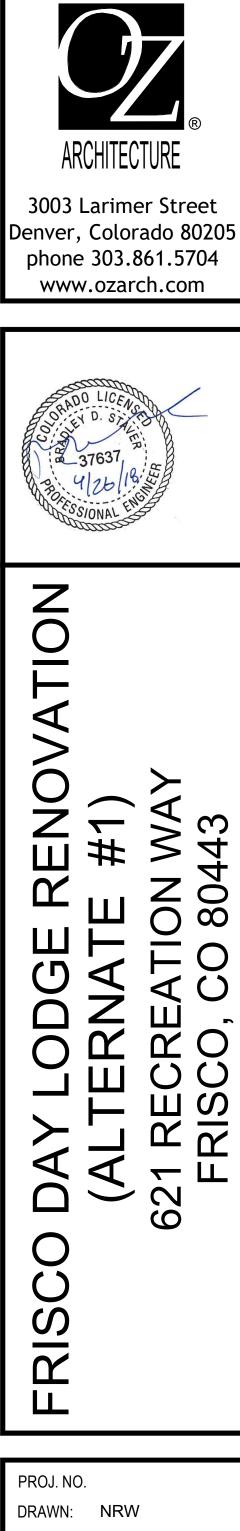
NOTE: FOR STANDARD MODULE SIZE REGISTERS, SIZE GIVEN IS NECK SIZE. REFER TO GRD SCHEDULE FOR MODULE SIZE.

-INDICATES AIR INLET DEVICE

			15	SSUE LO	G	
#	TITLE	100% DD - 04.03.2018	PERMIT SET - 04.27.2018			
M-000	MECHANICAL COVER SHEET	√	√			+
M-001	MECHANICAL SCHEDULES	√				
M-101	MECHANICAL PLANS	\checkmark	\checkmark			Τ
M-200	MECHANICAL SPECIFICATIONS		\checkmark			Т
M-201	CODE COMPLIANCE DOCUMENTS		\checkmark			t
	OG KEY:					

PROJECT ALTITUDE

9100' ABOVE SEA LEVEL



CHECKED: RSD APPROVED: BDS DATE: 2018-04-27

© OZ ARCHITECTURE

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

SHEET TITLE: MECHANICAL COVER SHEET

SCALE: NOT TO SCALE

SHEET NUMBER M-0(

	PLUMBING FIXTURE SCHEDULE									
MARK	ТҮРЕ	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	-			
GEN	IERAL NOTES:									
A:	FIRST MA	NUFACT	URER/MODEL LIST	TED IS BASIS OF DES	SIGN MANUFACTUR	ER/MODEL. FOLLOWING MANUFACTURERS WITH EQUAL MODELS ARE ALSO A	ACCEPTABLE.			
B:			ED AS A POTABLE FECTIVE AS OF JA		HALL MEET "LEAD-F	REE" REQUIREMENTS OF THE EPA REDUCTION OF LEAD IN DRINKING WATER	ACT AND ASSOCIATED			

		WATER TEMP.	FI FC		MANUFACTURER* & MODEL #		
MARK	TYPE	RISE (°F)	KW	VOLT/ PHASE		ACCESSORIES	REMARKS
WH-2	POINT OF USE	55	8.3	208/1	EEMAX SPEX8208T ML	A	-
MANUFAC	TURERS:						
*	HUBBELL, S	TIEBEL ELTRON					
GEN	ERAL NOTES:						
A:	PROVIDE W	/ITH LOCKABLE CA	BINET FOR	RECESSED WAL	L MOUNTING.		

		GRILLE	, R		
MARK	USE	PATTERN			
A	TRANSFER	SINGLE DEFLECTION	F		
MANUFACT	URERS:				
*	KREUGER, M	KREUGER, METALAIRE, PRICE			
GENERAL NOTES:					
A:		ANUAL BALANCING DA	MF		
B:	NECK SIZE SHALL BE EQUAL TO RU				

		ELEC	TRICAL	MANUFACTURER* &			
MARK	TYPE	KW	VOLT/ PH	MODEL #	ACCESSORIES	REMARKS	
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	-	
ANUFAC	TURERS:						
*	TRANE, BERKC)					
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:	B: PROVIDE FACTORY MOUNTED DISCONNECT						

	EXHAUST FAN SCHEDULE								
			FAN		MOTOR				
			ES	P		MANUFACTURER* &			
MARK	TYPE	CFM	@ S.L.	@ ALT	VOLT/PH	MODEL #	ACCESSORIES	REMARKS	
EF-2	CEILING CABINET	50	0.25 in-wg	0.25 in-wg	120/1	GREENHECK SP-B80	С	A,B	
SF-1	INLINE SUPPLY	90	0.40 in-wg	0.40 in-wg	120/1	GREENHECK SQ-70-VG	-	A	
MANUFACT	TURERS:								
*	COOK, TWIN CI	ΤY							
GENE	ERAL NOTES:								
A:	A: CONNECT FAN TO EXISTING BAC FOR SCHEDULING AND ALARM STATUS. FAN OPERATION TO BE INTEGRATED WITH LIGHTING OCCUPANCY SENSOR.								
B:	B: MULTIPLE ITEMS OF THIS DESIGNATION. REFER TO FLOORPLANS FOR EXACT QUANTITY.								
C:									

REGISTER, DIFFUSER & LOUVER SCHEDULE							
FINISH	MANUFACTURER* & MODEL#	ACCESSORIES	REMARKS				
PER ARCHITECT	TITUS 271FL	А	В				

MPER IN RUN-OUT DUCTWORK FOR ALL GRILLES REGISTERS AND DIFFUSERS. JN-OUT SIZE INDICATED ON DRAWINGS UNLESS NOTED OTHERWISE.



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





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

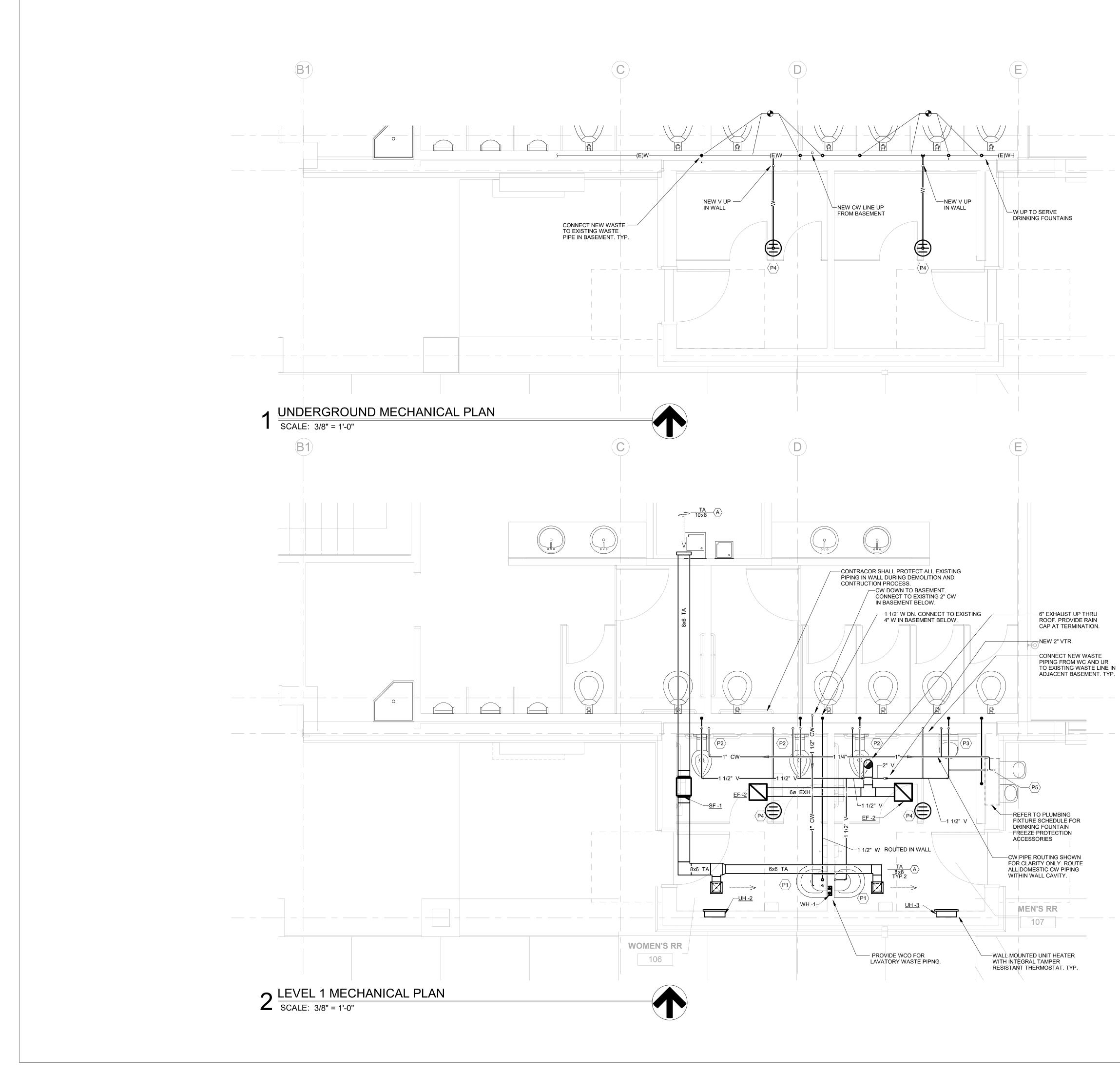
© OZ ARCHITECTURE

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

SHEET TITLE: MECHANICAL SCHEDULES

SCALE: SHEET NUMBER

M-001





HVAC NOTES:

- 1. RE: 1/M001 FOR MECHANICAL DIAGRAMS.
- 2. 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.
- 4. EXTEND EXISTING DRY PIPE SPRINKLER SYSTEM TO COMPLY WITH NFPA 13.
- 5. 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.
- 7. 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.

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



Ζ

O ---Ο A Ζ \mathcal{O} Ш Ш Ш 4 \forall Ó 80 Ο ODGE FΟ \mathbf{O} く Z Z Z ЦЦ 0 RECI LL $\overline{}$ \square N Q O RISC LL

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

© OZ ARCHITECTURE

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

Sheet Title: Mechanical plans

SCALE: As indicated SHEET NUMBER

M-101



-4.9

5

4.9

5

- --(6)

- I. ALL SUBCONTRACTORS SHALL BE LICENSED, EXPERIENCED, AND THOROUGHLY KNOWLEDGEABLE IN THEIR RESPECTIVE AREAS OF THE CONSTRUCTION INDUSTRY AND SHALL PERFORM IN A RESPONSIBLE MANNER WITH ESTABLISHED CONSTRUCTION SEQUENCE, SHALL RECOGN THE PRIORITY OF THE CONSTRUCTION DOCUMENTS, AND SHALL INFORM THE PRIME CONTRACTOR OF POTENTIAL PROBLEMS WHEN THE CONSTRUCTION DOCUMENTS ARE UNCLEAR OR INCONSISTENT.
- SUBCONTRACTORS SHALL BE RESPONSIBLE TO NOTIFY THE PRIME CONTRACTOR OF DISCREPANCIES OR CONFLICTS IN THE CONSTRUCTION DOCUMENTS FOUND DURING BIDDING AND/OR PRIOR TO PERFORMING THE WORK.
- 3. EXAMINATION OF BIDDING DOCUMENTS.

2)

- A. EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY, AND NOT LATER THAN SEVEN (7) DAYS PRIOR TO THE DATE OF RE OF BIDS, SHALL MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGU INCONSISTENCIES, OR ERRORS THEREIN WHICH HE MAY DISCOVER. THE ARCHITECT WILL ISSUE ANY INTERPRETATION OR CORRECTIO AN ADDENDUM. ONLY A WRITTEN INTERPRETATION OR CORRECTION BY ADDENDUM SHALL BE BINDING. NO BIDDER SHALL RELY UPON INTERPRETATIONS OR CORRECTIONS GIVEN BY ANY OTHER METHOD. IF DISCREPANCIES, AMBIGUITIES, INCONSISTENCIES, OR ERRORS NOT COVERED BY ADDENDUM OR WRITTEN DIRECTIVE, CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR MATERIALS AND METHODS OF CONSTRUCTION RESULTING IN HIGHER COST. AFTER AWARD OF CONTRACT, NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE BEHALF OF THE CONTRACTOR DUE TO HIS FAILURE TO MAKE THE WRITTEN REQUESTS AS DESCRIBED ABOVE.
- B. FAILURE TO REQUEST CLARIFICATION DURING THE BID PERIOD OF ANY INADEQUACY, OMISSION, OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES. THE SIGNING OF THE CONTRACT WILL BE CONSIDERED AS IMPLICITLY DENOTING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE CONSTRUCTION CONTRACT DRAWINGS AN SPECIFICATIONS.
- 4. PROVIDE A BASE BID WHICH SHALL INCLUDE ONLY SPECIFIED EQUIPMENT OR EQUIPMENT LISTED AS EQUIVALENT. NO SUBSTITUTIONS FOR T LISTED EQUIPMENT SHALL BE ALLOWED IN THE BASE BID.
- A. THE MANUFACTURER OF EQUIPMENT OR MATERIALS FIRST NAMED ON THE DRAWINGS IS THE BASIS OF DESIGN. OTHER MANUFACTURE LISTED ARE CONSIDERED GENERAL EQUIVALENTS ONLY.
 B. COORDINATION OF GENERAL EQUIVALENTS AND SUBSTITUTIONS: WHERE CONTRACT DOCUMENTS PERMIT SELECTION FROM SEVERAL
- GENERAL EQUIVALENTS, OR WHERE SUBSTITUTIONS ARE AUTHORIZED, COORDINATE CLEARANCE AND OTHER INTERFACE REQUIREMEN WITH MECHANICAL AND OTHER WORK.
 - . PROVIDE NECESSARY ADDITIONAL ITEMS SO THAT SELECTED OR SUBSTITUTED ITEM OPERATES EQUIVALENT TO THE BASIS OF D AND PROPERLY FITS IN THE AVAILABLE SPACE ALLOCATED FOR THE BASIS OF DESIGN.
 - PROVIDE ALL FEATURES WHICH ARE STANDARD ON THE BASIS OF DESIGN PLUS ANY SPECIFIED OPTIONS.
- 3) BE RESPONSIBLE FOR ASSURING THAT PIPING, CONDUIT, DUCT, FLUE, AND OTHER SERVICE LOCATIONS FOR GENERAL EQUIVALE OR SUBSTITUTIONS DO NOT CAUSE ACCESS, SERVICE, OR OPERATIONAL DIFFICULTIES ANY GREATER THAT WOULD BE ENCOUNT WITH THE BASE DESIGN.
- 5. INASMUCH AS DESIGN FOR REMODEL AND/OR REHABILITATION REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONE AND BECAUSE SOME OF THESE ASSUMPTIONS CANNOT BE VERIFIED WITHOUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIO THE BUILDING, THE ENGINEER CANNOT ASSURE THE OWNER OR THE CONTRACTOR THAT THE PROFESSIONAL CONSULTING SERVICES HEREIN ENCOMPASS ALL CONTINGENCIES. FIELD COORDINATION DURING CONSTRUCTION IS IMPERATIVE. MAKE REASONABLE ALLOWANCES FOR UN CONDITIONS.
- 6. THE EXISTING BUILDING WILL BE OCCUPIED BY THE OWNER DURING CONSTRUCTION. CONTINUED OPERATION OF THE FACILITY SHALL NOT BE HINDERED BY THIS WORK. ACCOUNT FOR ALL ADDITIONAL COSTS WHICH MAY BE INCURRED DUE TO THE DIFFICULTY OF WORKING OVER AND AROUND EMPLOYEES, FURNITURE, EQUIPMENT, ETC.; AND DUE TO THE HOURS OF THE DAY IN WHICH AN AREA MAY BE ACCESSIBLE WHEN COMPILING HIS BID.
- 7. BE RESPONSIBLE TO FIELD VERIFY EXISTING EQUIPMENT OR PIPING REMAINING TO BE CONNECTED TO [NEW] SYSTEMS. PROVIDE DUCTWORK PIPING, CONTROLS, DIFFUSERS, ETC., AS REQUIRED TO RESTORE CONTINUITY OF SYSTEM (S), OR TO MAKE NEW WORK MEET EXISTING COND WHETHER INDICATED OR NOT.
- 8. SUBCONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITY SERVICES AND COORDINATE AS REQUIRED BY THEIR RESPECTIVE OF THE CONSTRUCTION, NOTIFYING THE PRIME CONTRACTOR OF VARIATIONS OR CONFLICTS.
- 9. IF NOT SPECIFICALLY DEFINED IN THESE CONSTRUCTION DOCUMENTS, MATERIALS AND/OR EQUIPMENT SHALL BE IDENTIFIED BY THE SUBCONTRACTOR WITH SUFFICIENT TIME TO ALLOW SELECTION, PURCHASE, AND DELIVERY TO MAINTAIN CONSTRUCTION SCHEDULE.
- 10. VERIFY EXACT LOCATIONS OF EXISTING UNDERGROUND UTILITIES, PIPING, AND RACEWAY SYSTEMS PRIOR TO TRENCHING. CONTRACTOR SH OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS.
- 11. ALL DUCTWORK, DIFFUSERS, PIPING, FIXTURES, AND EQUIPMENT SHOWN IN LIGHT LINE WEIGHT IS EXISTING, NEW INDICATED BY HEAVIER LIN WEIGHT, EXCEPT WHERE NOTED. PIPES, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED, ARE SHOWN HATCHED.
- 12. OFFSET PIPING, DUCTWORK, ETC. AS NECESSARY TO ACCOMMODATE STRUCTURE, BEAMS, AND COLUMNS, AND EXISTING EQUIPMENT.
- 13. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT, OWNER, AND ENGINEER.
- 14. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM HIS/HER WORK IN CONFORMANCE WITH ALL APPLICABLE CODES, ORDINANCES AND L SAFETY FEATURES AS REQUIRED BY LOCAL, STATE, OR NATIONAL AUTHORITIES. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECT IF MODIFICATION OF HIS/HER WORK IS REQUIRED FOR COMPLIANCE.
- 15. ALL WORK OF ALL TRADES MUST BE IN STRICT COMPLIANCE, OR EXCEED THE MINIMUM MATERIAL AND METHOD REQUIREMENTS OF THE 2015 VERSION OF THE INTERNATIONAL BUILDING, MECHANICAL, PLUMBING, ENERGY CONSERVATION, AND FIRE CODES AND THE 2014 NATIONAL ELECTRICAL CODE, MOST CURRENT NFPA, ALL LOCAL ORDINANCES AND AMENDMENTS AND MANUFACTURER'S INSTALLATION RECOMMENDAT IF A CONFLICT BETWEEN THOSE PUBLICATIONS EXISTS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- 16. MECHANICAL WORK SHALL CONFORM TO THE FOLLOWING CODES: ALL LOCAL. CITY, COUNTY. AND STATE CODES
 - AABC ASSOCIATE AIR BALANCE COUNCIL ADC - AIR DIFFUSION COUNCIL
 - AGA AMERICAN GAS ASSOCIATION AMCA - AIR MOVING AND CONTROL ASSOCIATION
 - ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ASHRAE - AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
 - ASME AMERICAN SOCIETY OF MECHANICAL ENGINEERS ASTM - AMERICAN SOCIETY OF TESTING MATERIALS
 - AWWA AMERICAN WATER WORKS ASSOCIATION ICC - INTERNATIONAL CODE COUNCIL, 2015 CODES
 - NFPA NATIONAL FIRE PROTECTION ASSOCIATION
 - OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION UL - UNDERWRITERS' LABORATORIES
 - SMACNA SHEET METAL AND AIR CONDITIONING NATIONAL ASSOCIATION GVI GAS VENT INSTITUTE, EDITION 10-A
- 17. PAY FOR AND SECURE ALL REQUIRED PERMITS AND INSPECTIONS. PRIOR TO FINAL PAYMENT, TURN OVER TO ARCHITECT ALL CERTIFICATES COMPLETION.
- 18. WARRANTY THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP. THE WARRANTY SHALL BE FOR A PERIOD OF ONE YEAF OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.
- 19. SUBMIT O&M MANUALS WITHIN 90 DAYS OF ACCEPTANCE IN ACCORDANCE WITH DIVISION 1 REQUIREMENTS. IN THE ABSENCE OF DIVISION 1 REQUIREMENTS, O&M MANUALS SHALL INCLUDE: SUBMITTAL DATA STATING SIZES AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, MANUFACTURER'S OPERATING MANUALS AND MAINTENANCE MANUALS WITH REQUIRED ROUTINE MAINTENANCE ACTIONS IDENTIFIED, NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY, HVAC CONTROLS AND SYSTEM MAINTENANCE, RECOMMENDE SENSOR CALIBRATION SCHEDULE, WIRING DIAGRAM AND SYSTEM SCHEMATICS, AND A NARRATIVE OF HOW EACH SYSTEM IS TO OPERATE INCLUDING RECOMMENDED SETPOINTS.
- 20. SUBMIT RECORD DOCUMENTS TO ARCHITECT WITHIN 90 DAYS OF COMPLETION. DOCUMENTS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.
- 21. SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION PRIOR TO ACCEPTANCE BY THE OWNER.
- 22. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. PERFORM AT A MINIMUM ALL CODE REQUIRED TESTS OR SYSTEMS. IF TESTS OF WOR DEFECTIVE. CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO ADDITIONAL COST TO OWNER.
- 23. ALL MATERIALS AND/OR EQUIPMENT SHALL BE HANDLED AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATION
- 24. SUBMIT ALL MECHANICAL DIVISION SHOP DRAWING AND PRODUCT DATA AT ONE TIME. PARTIAL SUBMITTALS WILL BE REJECTED.
- 25. SHOP DRAWING SUBMITTALS SHALL STATE CAPACITIES, SIZES, ETC., OF ALL EQUIPMENT AND SHALL BE CERTIFIED AND INCLUDE COMPUTER IS PROJECT SPECIFIC SELECTIONS WHERE APPLICABLE. CLEARLY MARK EACH SHOP DRAWING, CATALOG CUT AND/OR SPECIFICATION SHEET TO INDICATE THOSE PRODUCTS AND FEATURES WHICH ARE INTENDED TO BE FURNISHED. SPECIFICALLY INDICATE ANY DEVIATIONS FROM THE DI INTENT. ENGINEER RESERVES THE RIGHT TO REQUIRE CORRECTION AT NO COST TO OWNER FOR DEVIATIONS NOT SPECIFICALLY INDICATED SUBMITTALS. REVIEW AND APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF FURNISHINE EQUIPMENT AND MATERIALS OF PROPER DIMENSION, SIZE, QUANTITY, QUALITY AND ALL PERFORMANCE CHARACTERISTICS TO EFFICIENTLY PERFORM THE REQUIREMENTS AND INTENT OF THE CONTRACT DOCUMENTS. SUBMITTAL SHALL BE BOUND AND INDEXED IN A NEAT AND ORD MANNER.
- 26. SUBMITTALS SHALL INCLUDE, BUT NOT BE LIMITED TO: EQUIPMENT, FIXTURES, INSULATION, DIFFUSERS, FANS, PIPING, VALVES, CONTROLS, A FIRE PROTECTION.
- 27. FAILURE TO ORDER, OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERN MATERIALS, EQUIPMENT, OR INSTALLATION METHODS.
- 28. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC., AS REQUIRED BACKFILL TRENCHES IN 6" LAYERS AND TO 90% COMPACTION AND PATCH TO MATCH EXISTING GRADE.
- 29. REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO MATCH EXISTING CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION.
- TEMPORARY HEAT SHALL BE FURNISHED BY THE GENERAL CONTRACTOR. USE OF THE PERMANENT HEATING SYSTEM WILL NOT BE ALLOWED
 COORDINATE ALL PENETRATIONS OF THE FLOOR SLAB PRIOR TO COMMENCING WORK. COORDINATE ALL NEW PENETRATIONS WITH OTHER
- DIVISIONS OF THE WORK. ALL CONTRACTORS ARE INDIVIDUALLY RESPONSIBLE FOR ALL PENETRATIONS REQUIRED BY THEIR DIVISIONS.
- 32. DUCTS, PIPING, AND CONDUITS PENETRATING THROUGH ROOF SHALL HAVE ROOF FLASHING COMPATIBLE WITH THE ROOFING SYSTEM. SEE ARCHITECTURAL DRAWINGS. IN THE ABSENCE OF ANY OTHER REQUIREMENTS, PROVIDE SHEET LEAD TYPE FLASHING FOR PLUMBING VENTS BUILT-UP ROOFS, TALL CONE WITH EPDM BOOT FOR PIPE AND CONDUIT IN SINGLE PLY MEMBRANE ROOFS, AND CURBED ROOF PENETRATION ALL TYPES OF ROOF. INSTALLATION SHALL BE WATERTIGHT.

GENERAL NOTES (MECHANICAL SPECIFICATIONS):

OGNIZE	33.	ALL FLOOR DRAINS, FLOOR SINKS, TROUGH DRAINS, SAND OIL SEPARATORS, AND ELEVATOR SUMP HUB RECEPTORS CONNECTED TO THE SEWER SYSTEM SHALL BE EQUIPPED WITH TRAP PRIMERS. PROVIDE TRAP PRIMERS WITH BACKFLOW PREVENTERS AND CONNECT TO THE NEAREST COLD WATER PIPING ADJACENT TO A FLUSHING FIXTURE. PROVIDE ELECTRONIC TRAP PRIMERS FOR ANY AREAS WHERE THE NEAREST ADJACENT FLUSHING FIXTURES ARE NOT WITHIN A REASONABLE DISTANCE OR STRUCTURAL OBSTRUCTIONS PREVENT GRAVITY SLOPING OF TRAP PRIMER LINES. ADDED COST OF ELECTRIC POWER FOR ELECTRONIC TRAP PRIMERS SHALL BE BORNE BY PLUMBING CONTRACTOR. INSTALL ALL TRAP		 C. LINES ABOVE STANDARD CL DWV COPPER D. PRESSURIZED
DN	34.	PRIMER VALVES AND ASSOCIATED SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.		PVC SOCKET F 656 ADHESIVE SMALLER.
RECEIPT GUITIES,	35.	COORDINATE ARCHITECTURAL, STRUCTURAL, MECHANICAL, FIRE PROTECTION, ELECTRICAL, LANDSCAPING, AND INTERIOR DESIGN DRAWINGS PRIOR TO INSTALLATION.	50.	DRAIN AND RECEPTO CEMENT; BURIED—T OF CLEAN SAND. PR
TION AS ON DRS ARE	36. 37.	CAREFULLY VERIFY ELECTRICAL SERVICE VOLTAGE AND PHASE AVAILABLE. MOUNT ALL STATS AT 48" AFF IN "ACCESSIBLE" AREAS, 4'6" AFF IN OTHER AREAS, UNLESS NOTED OTHERWISE. COORDINATE LOCATION WITH WALL	51.	DRAIN PAN PIPING: N FITTINGS, AND 95-5 S
DF ADE ON		FINISH, AND TO AVOID CASEWORK, FURNITURE, DOOR SWINGS, HEAT SOURCES, AND EXTERIOR WALLS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO BEGINNING THERMOSTAT INSTALLATION.	52.	INDOOR PIPING INSU STORM AND OVERFL
E AND	38.	SUBMIT A WRITTEN BALANCE REPORT BY A NEBB OR AABC CERTIFIED BALANCING CONTRACTOR. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH NEBB OR AABC GUIDELINES FOR PROPORTIONAL BALANCE. SUBMIT REPORT ON STANDARD NEBB FORMS OR SUBMIT FORMS FOR REVIEW PRIOR TO BALANCING. MEASUREMENTS SHALL INCLUDE ALL MOTOR AMPERAGE AND VOLTAGE READINGS; MOTOR AND FAN RPMS; STATIC PRESSURE AT INLET AND OUTLET OF ALL PACKAGED EQUIPMENT, FANS, COILS, AND FILTERS; PITOT TUBE MEASUREMENT OF SUPPLY, EXHAUST, RETURN, AND OUTSIDE AIR MAIN DUCTS, AT MINIMUM OUTSIDE AIR, AND 100% (ECONOMIZER) OUTSIDE AIR; VELOCITY DISTRIBUTION		MINERAL FIBER BLAN FLAME SPREAD RATI UNINTERRUPTED TH PIPING OPERATING A
RTHE		ACROSS THE FACE OF FILTERS; AIR INLET AND OUTLETS; WATER FLOW AT ALL FLOW MEASUREMENT STATIONS; INLET AND OUTLET PRESSURE AT PUMPS WITH FLOW CALCULATED FROM THE PUMP CURVE; WATER FLOW, TEMPERATURE DROP, AND PRESSURE DROP AT ALL COILS.		A. INSULATION TI1) DOMES⁻
IRERS		 A. PROVIDE BELTS AND SHEAVES AS REQUIRED FOR DRIVE CHANGES TO ADJUST FAN SPEED. B. ADJUST FLOWS TO WITHIN 10% OF REQUIRED QUANTITY. WHERE ROOM AIR PRESSURE RELATIONSHIP ARE REQUIRED TO BE MAINTAINED AS SHOWN BY A DIFFERENTIAL OF SUPPLY AND EXHAUST/RETURN OR BY NOTE, ADJUST SUPPLY TO WITHIN 10% AND THEN ADJUST EXHAUST/RETURN TO PROVIDE THE INDICATED ROOM PRESSURE. IF ACTUAL QUANTITY IS LESS THAN 90%, INVESTIGATE CAUSE, ATTEMPT TO 	53.	RUNOU [*] 2) DOMES [*] IDENTIFICATION: LAB
MENTS F DESIGN		 RECTIFY AND NOTIFY ENGINEER. SUBMITTAL OF BALANCE REPORT WITH LESS THAN REQUIRED FLOWS WITHOUT EXPLANATION IS CAUSE FOR REJECTION OF REPORT. SUBMIT THREE (3) COPIES OF ALL SUBMITTALS IN ADDITION TO ANY REQUIRED BY THE CONTRACTOR AND HIS SUPPLIERS. THESE COPIES 	54.	ENGRAVED PLASTIC NEAR SPECIFIED EQU
DEGIGIN	39.	 SUBMIT THILLE (3) COFIES OF ALL SUBMIT FALS IN ADDITION TO ANT REQUIRED BY THE CONTRACTOR AND THIS SUPPLIERS. THESE COFIES SHALL BE RETAINED BY THE OWNER, ARCHITECT, AND ENGINEER. DUCTWORK: (LOW VELOCITY) 	54.	A. PROVIDE AN A SPECIFICATION
LENTS INTERED INDITIONS,		A. FLEXIBLE DUCTWORK SHALL HAVE AN OUTER JACKET OF FIRE RETARDANT POLYETHYLENE VAPOR BARRIER MATERIAL, UNIFORM LAYER OF FIBERGLASS INSULATION, HIGH-STRENGTH GALVANIZED STEEL HELIX ENCAPSULATED IN REINFORCED "RIP STOP" ALUMINUM LAMINATE INTERIOR CORE, UL LISTED AND LABELED, CLASS 1 AIR DUCT. WORKING PRESSURE RATING: POSITIVE 6", NEGATIVE 4". FLEXMASTER TYPE 5 OR EQUIVALENT. SUBMIT SAMPLES TO DETERMINE EQUIVALENCE.		B. THE FIRE SPRI REQUIRED BY CALCULATION LOCATIONS, B SYSTEM LAYO
RTIONS OF EIN UNSEEN		 B. FLEXIBLE CONNECTION: EQUIVALENT TO VENTFAB, FIREPROOF GLASS CLOTH, 10" W.C. RATED. C. ROUND DUCT: SPIRAL SEAM, GALVANIZED STEEL. DIE STAMPED OR 5 GORE ELBOWS. "SNAP-LOCK", LONGITUDINAL SEAM DUCT, OR 		LICENSED TEC AND FIRE DEP
BE		 D. LINER: 		C. WHERE REQU
ND		1) LINE ALL SUPPLY, OUTSIDE AIR, RETURN AIR DUCTS, EXHAUST AIR RISERS, AND MAKE UP AIR RISERS WITH 1", 1.5 LB/CF, BLACK MATTE COATED INSULATING DUCT LINER.		2) CONFOR
DRK, NDITIONS,		 2) INSULATION CONDUCTIVITY VALUE NOT EXCEEDING 0.27 BTU*IN/(HR*FT*2*F). 2) INSULATION CONDUCTIVITY VALUE NOT EXCEEDING 0.27 BTU*IN/(HR*FT*2*F). 		
IVE AREA		 3) LINER SHALL BE COATED AND SEALED AND SHALL MEET ASTM C1071. 4) MATERIAL SHALL MEET ALL REQUIREMENTS OF NFPA-90. 		E. SYSTEM SHAL PIPING, IDENT
		 5) INSTALL WITH ADHESIVE AND WELDED PINS IN ACCORDANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS". 6) EXTERNALLY WRAP ALL ROUND SUPPLY AIR DUCTS WITH FLEXIBLE GLASS FIBER, ANSI/ASTM C612; 0.002 INCH FOIL SCRIM FACING. 		F. WORK SHALL I INSTALLATION G. COORDINATE
SHALL		7) ALL RAW EDGES OF INSULATION SHALL BE NEATLY TRIMMED AND SEALED WITH MASTIC.	55.	ALL WATER CLOSETS
INE		E. DUCTWORK: G60 GALVANIZED SHEET STEEL; LOCK FORMING QUALITY; CONSTRUCTED TO THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS"; +/- 1" WC PRESSURE CLASSIFICATION, SEAL CLASS "C"; WITH GALVANIZED STEEL FASTENERS, ANCHORS, ANGLES, STRAPS, ETC.	56.	LIGHT SWITCHES, EL LOCATED NO HIGHEF DEPTH. THE MAXIMU
		F. SEAL ALL SEAMS (LONGITUDINAL AND TRANSVERSE) AIRTIGHT WITH UNITED MCGILL "UNI-GRIP" UL LISTED, WATER BASED, NON-HARDENING, ELASTIC SEALANT OR EQUIVALENT. TAPE NOT ALLOWED.	57.	AN APPROVED KEY L
	40.	ALL DUCTWORK DIMENSIONS ARE OUTSIDE SHEET METAL DIMENSIONS. DUCT LINER HAS BEEN ACCOUNTED FOR WITHIN RECTANGULAR DUCTWORK.	58.	EMERGENCY WARNII ROOMS, LOBBIES AN
-	41.	DUCTWORK NOTES:		
15 ATIONS.		A. UNLESS OTHERWISE NOTED, ALL CHANGES IN DIRECTION SHALL BE MADE WITH RADIUS ELBOWS WITH RADIUS TO CENTERLINE EQUAL TO 1.5 DUCT WIDTH.		
, mone.		 WHERE REQUIRED FOR SPACE CONSTRAINTS, PROVIDE SQUARE THROAT ELBOWS WITH SINGLE WIDTH (NON-AIRFOIL) TURNING VANES. FOR DUCT DEPTHS OF 36" OR LESS, PROVIDE MANUFACTURED SINGLE WIDTH (NON-AIRFOIL) TURNING VANES, WITH SPACING IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR "STANDARD SPACING". USE DOUBLE THICKNESS BLADES FOR DUCT DEPTHS GREATER THAN 36". USE NO TRAILING EDGES. 		
		 B. ALL FLEXIBLE DUCTS SHALL NOT EXCEED EIGHT FEET IN LENGTH. C. EXTERIOR DUCTWORK: PROVIDE EXTERIOR DUCTWORK TO THESE SPECIFICATIONS WHERE EXPOSED TO WEATHER: 		
		 EXTERIOR DUCTWORK. PROVIDE EXTERIOR DUCTWORK TO THESE SPECIFICATIONS WHERE EXPOSED TO WEATHER. 1) DUCTWORK SUPPORT MATERIALS: EXCEPT AS OTHERWISE INDICATED, PROVIDE GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, TRIM AND ANGLES FOR SUPPORT OF DUCTWORK. PROVIDE EQUIPMENT SUPPORT RAIL TYPE OR EQUIVALENT ROOF SYSTEM COMPATIBLE WEATHERPROOF INTERFACE AT ALL ROOF SUPPORTS. 		
		2) DUCT SEALING SYSTEM: EQUIVALENT TO UNITED MCGILL "UNI-WEATHER" UL LISTED OUTDOOR SEALANT. FIRE RATING: UL LISTED. CONTRACTOR MAY PROPOSE ALTERNATE SEALING SYSTEMS. "DUCTMATE" AND SIMILAR FLANGED JOINING SYSTEMS ARE ACCEPTABLE IF AN ADDITIONAL BEAD OF SILICONE BASED OUTDOOR SEALANT IS APPLIED ALL AROUND EACH JOINT, AND THE TOP FLANGE IS PROTECTED BY A SHEET METAL SHIELD.		
ES OF	42.	3) CONSTRUCT AND SEAL DUCTS TO 3" STATIC PRESSURE STANDARDS. DUCTWORK SPECIALTIES		
AR AFTER		A. VOLUME AND SPLITTER DAMPERS: GALVANIZED SHEET METAL WITH VENTFABRICS, INC., VENTLOCK OR EQUAL OPERATING HARDWARE. FOR ACCESSIBLE DAMPERS, PROVIDE NO. 620, 635 OR 637 DIAL REGULATORS, NO. 635 OR 637 SQUARE END BEARING, AND NO. 635 SPRING END BEARING, AS APPLICABLE. FOR INACCESSIBLE DAMPERS, PROVIDE NO. 666 CONCEALED DAMPER REGULATOR, WITH PAINTED COVER (COLOR BY ARCHITECT) AND BEARINGS AS ABOVE. FOR MEDIUM PRESSURE DUCTS, PROVIDE NO. 635 HIVEL DIAL REGULATOR AND NO. 609 HIVEL END		
IT E DED		 BEARING FOR ACCESSIBLE DAMPERS. B. MULTI-LOUVER VOLUME DAMPERS: TITUS AG-35-B OPPOSED BLADE, ANEMOSTAT OR EQUAL. SEE DETAIL REGARDING REMOTE ACCESS TO VOLUME DAMPERS. 		
IGE		C. TURNING VANES FOR LOW PRESSURE DUCTS: SMACNA SMALL DOUBLE VANE, PLATE NO. 22B OR EQUAL, WITH AIRFOIL BLADES FOR DUCTS 36" OR LESS IN WIDTH; SMACNA FIG. 3.23 FOR DUCTS GREATER THAN 36" WIDE. FOR MEDIUM PRESSURE DUCTS: SMACNA FIG. 3-23.		
ORK ARE		 D. ACCESS PANELS: 1) REINFORCED, GALVANIZED SHEET METAL WITH AIRTIGHT GASKETS RATED FOR PRESSURES AND SERVICE INTENDED. MILCOR OR EQUAL. PROVIDE HINGES AND VENTFABRICS, INC. VENTLOCK LATCHES. 2) DUCT ACCESS PANELS FOR HAND ENTRY ONLY: NO. 90 SASH TYPE LATCH. MINIMUM SIZE: 18" X 18". 		
ONS.		 a) DUCT AND PLENUM ACCESS DOORS FOR BODY ENTRY: NO. 310 LATCH, OPERABLE FROM BOTH SIDES OF DOOR. MINIMUM SIZE: 18" X 18". 4) REFERENCE OTHER SECTIONS FOR CEILING/ WALL ACCESS PANELS. 		
		E. BACKDRAFT DAMPERS: PROVIDE COUNTER WEIGHT TYPE BACKDRAFT DAMPERS IN ALL DUCTS OPENING TO THE OUTSIDE RUSKIN MODEL CBS-7 OR APPROVED EQUAL.		
R BASED TO DESIGN ED IN THE	43.	SUPPORT PIPE WITH ROD AND CLEVIS, RING HANGERS, TRAPEZE, OR CLAMPS. NO PIPE TAPE OR STRAPPING ALLOWED. ALL HANGERS SHALL BE SIZED FOR OD OF INSULATION, IF ANY. PROTECT INSULATED LINES WITH 20 GA SHEET METAL SHIELDS AND PROVIDE CALCIUM SILICATE INSULATION INSERTS FOR ALL INSULATED PIPING. MAINTAIN VAPOR BARRIER ON ALL COLD LINES. ISOLATE BARE COPPER LINES FROM HANGERS WITH		
IING Y RDERLY	44.	VIBRASORB OR EQUIVALENT, COPPER COATED HANGERS ARE NOT SUFFICIENT, WRAPPING PIPE WITH TAPE NOT ACCEPTABLE. NEW COLD WATER BRANCHES TO BE ROUTED FROM NEAREST COLD WATER OF LINE SIZE EQUAL TO OR GREATER THAN NEW BRANCH—TYPICAL.		
, AND	45.	REFER TO PLUMBING FIXTURE CONNECTIONS SCHEDULE FOR PIPE SIZES TO INDIVIDUAL PLUMBING FIXTURES.		
	46.	PROVIDE SHOCK ARRESTERS AT ALL DOMESTIC HOT AND COLD WATER BRANCHES SERVING FIXTURES AND EQUIPMENT WITH QUICK CLOSING VALVES. SUCH FIXTURES AND EQUIPMENT INCLUDES FLUSH VALVE WATER CLOSETS, DISHWASHERS, ICE MACHINES, AND CLOTHES WASHERS. SHOCK ARRESTERS SHALL BE CONSTRUCTED WITH A PISTON IN A SEALED COPPER TUBE CHAMBER, AND APPROVED FOR INSTALLATION WITHIN WALLS WITHOUT ACCESS PANELS. SIOUX CHIEF OR EQUIVALENT. BELLOWS TYPE NOT ACCEPTABLE.		
RED.	47.	DOMESTIC HOT AND COLD PIPING INSIDE BUILDING—BURIED LINES, TYPE "K" SOFT ANNEALED COPPER WATER TUBE, SINGLE LENGTH TO AVOID FITTINGS, (WROUGHT COPPER FITTINGS WHERE UNAVOIDABLE) AND 1100°F SOLDER. NON-BURIED LINES, TYPE "L" HARD COPPER WATER TUBE, WROUGHT COPPER FITTINGS AND NO LEAD 95-5 SOLDER.		
ί,	48.	COPPER PIPE VALVES AND SPECIALTIES		
/ED. R		 A. GATE VALVES - BRONZE, CLASS 125, 200 LB. W.O.G. B. BALL VALVES - BRONZE, CLASS 125, 600 LB. W.O.G. C. CHECK VALVES - BRONZE, CLASS 125, 200 LB. W.O.G. D. BALANCING VALVES - 125 PSI W.P. FOR 250 DEGREE FAHRENHEIT SERVICE TIGHT SHUTOFF, TOUR AND ANDERSON STA, ARMSTRONG CBV, 		
E		 BALANGING VALVES - 125 FOR W.1. FOR 255 BEGREE FAIRLEN BERVIGE HORF SHOTOLF, FOR AND ANDERSON STA, ARMOTHONG ODV, GERAND, OR FLOWSET, B&G CIRCUIT SETTER. BIRECT UNIONS: FURNISH AND INSTALL A DIELECTRIC UNION AT EACH CONNECTION BETWEEN DISSIMILAR METALS. 		
TS IN ONS IN	49.	MATERIALS; SOIL, WASTE, AND VENT PIPING (INSIDE BUILDING) A. LINES BURIED BELOW GROUND: STANDARD WEIGHT, CAST IRON SOIL PIPE, AND FITTINGS. HUB AND SPIGOT WITH NEOPRENE GASKETS.		
		B. LINES BURIED BELOW GROUND: SCHEDULE 40 SOLID CORE PVC PIPE ACCORDING TO ASTM D 2665 DRAIN, WASTE AND VENT AND PVC SOCKET		

B. LINES BURIED BELOW GROUND: SCHEDULE 40 SOLID CORE PVC PIPE ACCORDING TO ASTM D 2665 DRAIN, WASTE AND VENT AND PVC SOCKET FITTINGS ACCORDING TO ASTM D 2665 AND ASTM D 3311 DWV PATTERNS AND TO FIT SCHEDULE 40 PIPE. ASSEMBLED WITH ASTM F 656 ADHESIVE PRIMER AND ASTM D 2564 SOLVENT CEMENT.

/E GROUND: STANDARD WEIGHT, CAST IRON SOIL PIPE, AND FITTINGS. HUB AND SPIGOT WITH NEOPRENE GASKETS, OR NO HUB WITH CLAMPS. UP THROUGH 2-1/2" MAY BE STANDARD WEIGHT, GALVANIZED STEEL PIPE WITH BLACK, WROUGHT IRON DRAIN FITTINGS, OR ER TUBE WITH DWV FITTINGS AND 95-5 NO LEAD SOLDER.

ED WASTE: SCHEDULE 40 SOLID CORE PVC PIPE FOR PRESSURE APPLICATIONS ACCORDING TO ASTM D 2665 AND ASTM D 1785 AND T FITTINGS ACCORDING TO ASTM D 2665 AND ASTM D 3311 DWV PATTERNS AND TO FIT SCHEDULE 40 PIPE. ASSEMBLED WITH ASTM F VE PRIMER AND ASTM D 2564 SOLVENT CEMENT. MINIMUM WORKING PRESSURE RATING SHALL BE 150 PSI AT 73 DEG F FOR NPS 6 AND

PTOR PIPING FOR COMBUSTION CONDENSATE—NOT BURIED—TYPE: SCHEDULE 40 SOLID-WALL PVC, PVC FITTINGS, AND LOW-VOC PVC —TYPE: SCHEDULE 80 SOLID-WALL PVC, PVC FITTINGS, AND LOW-VOC PVC CEMENT. ALL BURIED PIPE SHALL BE SURROUNDED WITH 4" PROVIDE NEUTRALIZATION SYSTEMS AS RECOMMENDED BY COMBUSTION APPLIANCE MANUFACTURER.

:: NOT BURIED: TYPE "M" COPPER, WROUGHT COPPER FITTINGS, AND 95-5 SOLDER; BURIED: TYPE "L" COPPER WROUGHT COPPER 5 SOLDER. ALL BURIED PIPE SHALL BE SURROUNDED WITH 4" OF CLEAN SAND.

ISULATION - INSULATE ALL NEW DOMESTIC WATER, DOMESTIC HOT WATER, DOMESTIC HOT WATER RECIRCULATION, AND HORIZONTAL RFLOW PIPING WITH UL APPROVED, WHITE, ALL SERVICE, MINERAL FIBER, SNAP-ON, PIPE INSULATION. INSULATE FITTINGS WITH LANKET INSULATION AND PRE-MOLDED PVC COVERS. ALL MATERIALS SHALL HAVE A SMOKE DEVELOPED RATING OF 50 OR LESS AND A ATING OF 25 OR LESS. PROVIDE CALCIUM SILICATE THERMAL INSERT AT HANGERS AND SUPPORTS. INSULATION SHALL PASS THROUGH HANGERS. VAPOR BARRIERS SHALL BE CONTINUOUS, AND SEALED WITH "NON-BREATHING" VAPOR BARRIER MASTIC ON IG AT TEMPERATURES BELOW AMBIENT. ALL RAW EDGES OF INSULATION SHALL BE NEATLY TRIMMED AND SEALED WITH MASTIC.

THICKNESS BELOW BASED ON INSULATION CONDUCTIVITY VALUE NOT EXCEEDING 0.27 BTU*IN/(HR*FT^2*°F):

ESTIC HOT WATER (DHW) AND DOMESTIC HOT WATER RECIRCULATION: ALL PIPE SIZES – 1" THICK; NON-RECIRCULATED DHW OUTS WITHIN 8 FEET OF FIXTURES – 1/2" THICK.

ESTIC COLD WATER: ALL PIPE SIZES – 1/2" THICK.

LABEL ALL NEW PIPING AND EQUIPMENT. PROVIDE FULL BAND OR STRIP TYPE MARKERS AND FLOW ARROWS ON PIPING. PROVIDE TIC VALVE TAGS WITH VALVE NUMBER AND ATTACH WITH STANDARD CHAIN OR S-HOOKS. PROVIDE ENGRAVED PLASTIC SIGN ON OR EQUIPMENT.

I DESIGN/BUILD REQUIREMENTS:

N AUTOMATIC SPRINKLER SYSTEM TO BE MONITORED BY A CENTRAL STATION MONITORING ALARM COMPANY. COMPLETE DRAWINGS, IONS, AND DETAILS SHALL BE SUBMITTED BY THE FIRE SPRINKLER DESIGN-BUILD CONTRACTOR.

PRINKLER CONTRACTOR SHALL SERVE AS THE ENGINEER OF RECORD FOR ALL WORK PERFORMED UNDER THIS DIVISION. IF BY THE AUTHORITY HAVING JURISDICTION, (AHJ) SUBMIT COMPLETE FIRE SPRINKLER SYSTEM SHOP DRAWINGS AND HYDRAULIC ONS, GENERATED BY CONTRACTOR. SHOP DRAWINGS SHALL BE A MINIMUM 1/8" SCALE, AND SHALL SHOW DEVICE AND APPLIANCE , BUILDING BACKGROUND INFORMATION, ROOM OCCUPANCY DESCRIPTIONS, DOOR SWINGS, FIRE RATINGS AND FIRE PROTECTION YOUT AND DETAILS. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER OR NICET III 'ECHNICIAN REGISTERED IN THE STATE OF COLORADO. SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO THE BUILDING EPARTMENTS AS A DEFERRED SUBMITTAL AND OBTAIN THEIR APPROVAL BEFORE SUBMISSION TO THE ARCHITECT.

QUIRED BY THE AHJ, ALL NEW SPRINKLER HEADS SHOULD HAVE THE CONNECTING MAIN AND BRANCH PIPE SIZES SHOWN. W THE CONNECTING MAIN AND BRANCH PIPE SIZES FOR ALL NEW, RELOCATED AND EXISTING SPRINKLER HEADS.

FORM TO LIGHT HAZARD OCCUPANCY REQUIREMENTS OF NFPA 13.

E EXISTING SPRINKLER SYSTEM, RELOCATE EXISTING AND ADD NEW SPRINKLER HEADS IN ACCORDANCE WITH NFPA 13, ALL CODES AND ORDINANCES AND PROJECT REQUIREMENTS TO COMPLETE THE NEW WORK.

HALL BE INSTALLED COMPLETE AND OPERATIONAL, INCLUDING WATER FLOW INDICATOR, CONNECTIONS TO EXISTING ALARM, DRAIN

LL BE PERFORMED BY A QUALIFIED FIRE SPRINKLER INSTALLER WITH A MINIMUM OF FIVE (5) YEARS EXPERIENCE IN SIMILAR

E ALL WORK WITH ALL OTHER TRADES PRIOR TO AND DURING INSTALLATION.

ETS SHALL BE 15" CLEAR MINIMUM FROM WALL TO CENTERLINE UNO. ALL WATER CLOSETS AT ACCESSIBLE STALLS SHALL BE 18" CLEAR ENTERLINE.

, ELECTRICAL OUTLETS, THERMOSTATS AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF CONTROLS HER THAN 48" AND NO LOWER THAN 15" ABOVE FINISHED FLOOR. THE REACH IS OVER AN OBSTRUCTION BETWEEN 20" AND 25" IN IMUM HEIGHT IS REDUCED TO 44". OBSTRUCTIONS LOCATED BELOW A CONTROL SHALL NOT EXTEND MORE THAN 25" FROM THE WALL Y LOCK BOX(ES) SHALL BE PROVIDED AS DETERMINED BY THE TOWN OF FRISCO FIRE DEPARTMENT.

INING SYSTEMS SHALL COMPLY WITH NFPA 72 AND SHALL PROVIDE VISUAL ALARMS IN RESTROOMS CORRIDORS. MULTI-PURPOSE AND ANY OTHER COMMON USE ROOMS PER IBC.



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





PROJ. NO.

DRAWN: NRW CHECKED: RSD APPROVED: BDS DATE: 2018-04-27

© OZ ARCHITECTURE

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

SHEET TITLE: MECHANICAL SPECIFICATIONS

SCALE: SHEET NUMBER

▲ 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 Owner/Agent: Town of Frisco Public Works Dept. 1 Main Street Frisco, CO 80443 Construction Site: Designer/Contractor: 621 Recreation Way Frisco, CO 80443 OZ Architecture 3003 Larimer Street Denver, CO 80205 Allowed Interior Lighting Power B C D Floor Area Allowed Allowed Watts (ft2) Watts / ft2 (B X C) Area Category 1-Restrooms (Common Space Types:Restrooms) 0.98 174 Total Allowed Watts = Proposed Interior Lighting Power B C D E Lamps/ # of Fixture (C X D) Fixture Fixtures Watt. A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast 1-Restrooms (Common Space Types:Restrooms) 2 52 104 Compact Fluorescent 1: S1: Surface Fixture: Triple 4-pin 26W: Electronic: Total Proposed Watts = Interior Lighting PASSES: Design 40% better than code Interior Lighting Compliance Statement 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. 9-4/27/18 Date EMILY RYAL - ELECTRICAL ENGINEER Name - Title Signature

Project Title: Frisco Restroom Addition Data filename: S:\BGProjects\8827.04 Frisco Peninsula Recreation Area Day Lodge

Expansion\Engineering\Energy\Calcs\Frisco Comcheck.cck

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

Mechanical Rough-In Plans Verified Field Verified

Value

Value

▲ COM*check* Software Version 4.0.8.1

90.1 (2010) Standard

Addition

Frisco Restroom Addition

1 (Developed area in national or state park)

Owner/Agent: Town of Frisco Public Works Dept. 1 Main Street Frisco, CO 80443

Project Information

Energy Code:

Project Title:

Project Type:

Exterior Lighting Zone

Construction Site: 621 Recreation Way Frisco, CO 80443

Allowed Exterior Lighting Power

Proposed Exterior Lighting Power

LED 1: W1: Wall Sconce: Other:

Section

 Section #
 Mechanical Rough-In Inspection

 & Req.ID
 Inspection

 6.4.4.2.1 [ME10]²
 Ducts and plenums sealed based on static pressure and location.

[ME11]³ column requires air leakage testing.

6.5.2.3 [ME19]³ Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream

6.5.3.3 Multiple zone VAV systems with [ME42]³ DDC of individual zone boxes have static pressure setpoint reset controls.

6.5.4.1 HVAC pumping systems >10 hp [ME25]³ designed for variable fluid flow.

6.5.6.1 Exhaust air energy recovery on systems meeting Table 6.5.6.1.

6.5.7.1.1 Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.

6.5.7.1.2 Conditioned supply air to space with a kitchen hood shall not

6.5.7.1.5 Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen evaluate systems

exhaust systems.

recovery. 6.5.8.1 Unenclosed spaces that are [ME34]² heated use only radiant heat.

Additional Comments/Assumptions:

spaces.

exceed the greater of a) supply flow required to meet space heating or cooling, or b) hood exhaust flow minus the available air transfer from available

Fume hoods exhaust systems >=15,000 cfm have VAV hood exhaust and supply systems, direct make-up air or heat

Restroom Entry (Entry canopy 2 ft2): Tradable Wattage

Exterior Lighting Compliance Statement

Restroom Entry (Entry canopy)

A Area/Surface Category

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

xterior Lighting PASSES: Design 94% better than code

A

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast

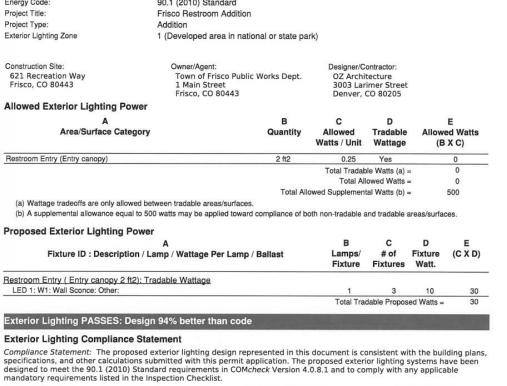
Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4,6. 4.1.5 [ME1] ²	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting 90.1.	Efficiency:	Efficiency:	Complies Does Not Not Observable Not Applicable	See the Mechanical Systems list for values.
6.4.3.4.1 [ME3] ³	Stair and elevator shaft vents have motorized dampers that automatically close.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply.
6.4.3.4.2, 6.4.3.4.3 [ME4] ³	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 acceptable in systems with outside or exhaust air flow rates less than 300 cfm where dampers are interlocked with fan.
6.4.3.4.5 [ME39] ³	Enclosed parking garage ventilation has automatic contaminant detection 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.
6.4.3.4.4 [ME5] ³	Ventilation fans >0.75 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 [ME6] ¹	Demand control ventilation provided for spaces >500 ft2 and >40 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.			Complies Does Not Not Observable Not Applicable	Exception: Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1200 cfm.
6.4.3.10 [ME40] ²	Single zone HVAC systems with fan motors >=5 hp have variable airflow controls. Air conditioning equipment with a cooling capacity >=110,000 Btu/h has variable airflow controls.			Complies Does Not Not Observable Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems list for values.
5.4.4.1.1 [ME7] ³	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.
6.4.4.1.2 [ME8] ²	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.
5.4.4.1.3 ME9] ²	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.
5.4.4.1.4 ME41] ³	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.

Project Title: Frisco Restroom Addition Data filename: S:\BGProjects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calcs\Frisco Comcheck.cck

Report date: 04/26/18 Page 7 of 14

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Proiect Title: Frisco Restroom Addition Data filename: 5:\BGProjects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calcs\Frisco Comcheck.cck





EMILY RUYAL-ELECTRICAL ENGINEER C: 4/27/18 Name - Title Signature Date

Report date: 04/26/18 Page 2 of 14

Project Title: Frisco Restroom Addition

Additional Comments/Assumptions:

Data filename: S:\BGProjects\8827.04 Frisco Peninsula Recreation Area Day Lodge

Expansion\Engineering\Energy\Calcs\Frisco Comcheck.cck

^\		Software Version 4.0.8 cal Compliance C	
Project I	nformation		
Energy Coo Project Title Location: Climate Zon Project Typ	de: 2: ne:	90.1 (2010) Standard Frisco Restroom Addition Frisco, Colorado 7 Addition	
Frisco, C	reation Way O 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
Mechani	cal Systems List		
1	Fans: FAN 1 Supply, Constant Volu FAN 2 Exhaust, Constant Vol		ate HP method) : Passes
Compliance specification designed t	ons, and other calculations su	nechanical design represented in this docum Ibmitted with this permit application. The pro lard requirements in COM <i>check</i> Version 4.0.8	posed mechanical systems have been .1 and to comply with any applicable
Name - Tit	le STAVER ASSO	CLATE Signature	<u>9/24/18</u> Date
	SUPADO LICENS SUPER D. SHARE		

Report date: 04/26/18

Page 3 of 14

_^	COMcheck Softw	are Versio	on 4.0.8.1
	4 Inspection	Check	dist
V	Energy Code: 90.1 (20		
Requiren	nents: 80.0% were addressed di		
requirem	ent, the user certifies that a code re	equirement will b	the user in the COMcheck Requireme e met and how that is documented, of table, a reference to that table is pro-
Section # & Req.ID	Plan Review	Complies?	Comments/Assumpt
4.2.2,6.4. 4.2.1,6.7. 2 [PR2] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
4.2.2,8.4. 1.1,8.4.1. 2,8.7 [PR6] ²	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 connectors sized in accordance with approved plans and branch circuits sized for maximum dranch of 3%.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
4.2.2,9.4. 4,9.7 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	Complies Does Not Not Observable Not Applicable	
9.7 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions 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	
5.7.2.4 [PR5] ¹	Detailed instructions for HVAC systems commissioning included on the plans or specifications for projects >=50,000 ft2.	Complies Does Not Not Observable	Exception: Requirement does not apply

	1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tie
Project Title:	Frisco Restr	oom Addition				
Data filename:		ts\8827.04 Frisco Penir Ingineering\Energy\Cal		Recreation Area Day Lodge sco Comcheck.cck		

	Complies?	Comments/Assumptions		
SCORES	Complies Does Not	Requirement will be met.		
	□Not Observable □Not Applicable			
	Complies Does Not	Exception: Requirement does not apply.		
	□Not Observable □Not Applicable			
	Complies Does Not	Exception: Cooling capacity 40 kBtu/h.		
	□Not Observable □Not Applicable			
	Complies Does Not	Exception: Requirement does not apply.		
	□Not Observable □Not Applicable	See the Mechanical Systems list for values.		
	Complies Does Not	Requirement will be met.		
	□Not Observable □Not Applicable			
	Complies Does Not	Exception: Requirement does not apply.		
	□Not Observable □Not Applicable			
CANCE OF	Complies Does Not	Exception: Requirement does not apply.		
	□Not Observable □Not Applicable			
100000	Complies Does Not	Exception: Requirement does not apply.		
	□Not Observable □Not Applicable			
	Complies	Exception: Requirement does not apply.		
	Not Observable	•••		
	Complies Does Not	Exception: Requirement does not apply.		
	□Not Observable □Not Applicable			
	Complies Does Not	Exception: Requirement does not apply.		
	□Not Observable □Not Applicable	1999 - Anno 2003 (1993) - Anno 2003 (1993)		

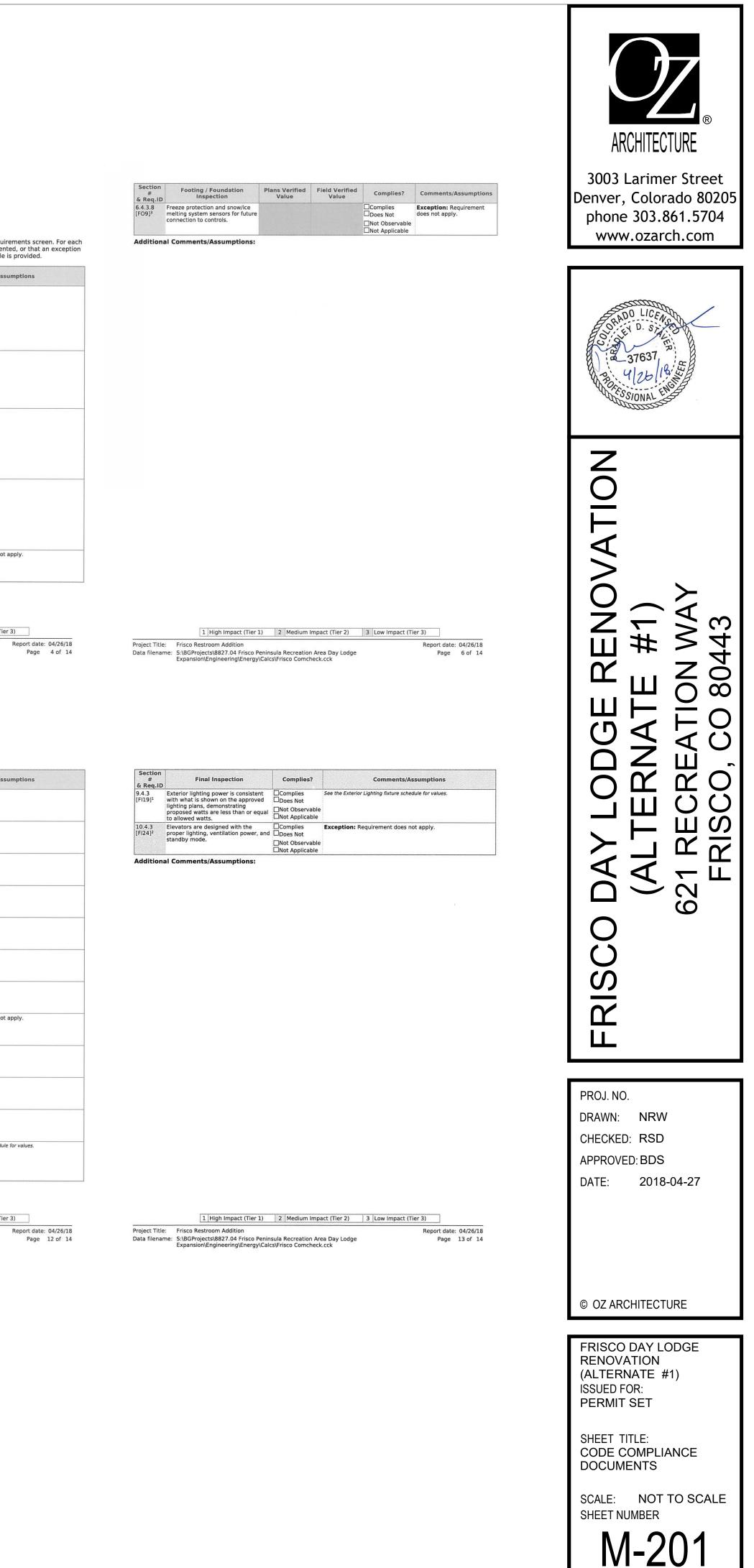
Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions	
8.4.2 [EL10] ² At least 50% of all 125 volt 15- an 20-Amp receptacles are controlle an automatic control device.		□Complies □Does Not	Exception: Space type is not private office, open office, o computer classroom.	
	an automatic control device.	□Not Observable □Not Applicable		
9.4.1.1 [EL1] ²	Automatic controls to shut off all building lighting.	□Complies □Does Not		
		□Not Observable □Not Applicable		
9.4.1.2 [EL2] ²	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 [EL11] ²	Parking garage lighting is equipped with required lighting controls and daylight transition zone lighting.	Complies Does Not		
9.4.1.4	Primary sidelighted areas >=250 ft2	Not Applicable Complies		
[EL12] ¹ are equipped with required lighting controls.		Does Not Not Observable Not Applicable		
9.4.1.5 [EL13] ¹	>900 ft2 are equipped with required lighting controls.	Complies Does Not		
9.4.1.7 [EL3] ²	Automatic lighting controls for exterior lighting installed.	Not Applicable Complies Does Not		
		□Not Observable □Not Applicable		
9.4.1.6 [EL4] ¹	specific uses installed per approved	□Complies □Does Not		
		□Not Observable □Not Applicable		
9.4.2 [EL6] ¹	face.	Complies Does Not		
		□Not Observable □Not Applicable		
[EL7] ¹	provides >60 lm/W unless on motion sensor or fixture is exempt from scope of code or from external LPD	Complies Does Not Not Observable		
		Ont Applicable		
EL8]1	allowed for special functions per the approved lighting plans and is automatically controlled and	Does Not Not Observable		
L0.4.1	Electric motors meet requirements	Complies Does Not	Requirement will be met.	
		□Not Observable □Not Applicable		

Section # & Reg.ID	Final Inspection	Complies?	Comments/Assu		
6.4.3.1.2 [FI3] ³	Thermostatic controls have a 5 °F deadband.	Complies Does Not	Requirement will be met.		
		□Not Observable □Not Applicable			
6.4.3.2 [FI20] ³	Temperature controls have setpoint overlap restrictions.	Complies Does Not	Requirement will be met.		
		□Not Observable □Not Applicable			
6.4.3.3.1 [FI21] ³	HVAC systems equipped with at least one automatic shutdown control.	Complies Does Not	Requirement will be met.		
		□Not Observable □Not Applicable			
6.4.3.3.2 [FI22] ³	Setback controls allow automatic restart and temporary operation as	□Complies □Does Not	Requirement will be met.		
	required for maintenance.	□Not Observable □Not Applicable			
6.4.3.7 [FI6] ³	When humidification and dehumidification are provided to a	□Complies □Does Not	Requirement will be met.		
	zone, simultaneous operation is prohibited.	□Not Observable □Not Applicable			
6.7.2.1 [FI7] ³	Furnished HVAC as-built drawings submitted within 90 days of system	Complies Does Not	Requirement will be met.		
	acceptance.	□Not Observable □Not Applicable			
6.7.2.2 [FI8] ³	Furnished O&M manuals for HVAC systems within 90 days of system	Complies Does Not	Requirement will be met.		
	acceptance.	□Not Observable □Not Applicable			
6.7.2.3 [FI9] ¹	An air and/or hydronic system balancing report is provided for HVAC	Complies Does Not	Exception: Requirement does not app		
	systems serving zones >5,000 ft2 of conditioned area.	□Not Observable □Not Applicable			
6.7.2.4 [FI10] ¹	HVAC control systems have been tested to ensure proper operation,	Complies Does Not	Requirement will be met.		
	calibration and adjustment of controls.	□Not Observable □Not Applicable			
8.7.1 [FI16] ³	Furnished as-built drawings for electric power systems within 30 days	Complies Does Not			
	of system acceptance.	□Not Observable □Not Applicable			
8.7.2 [FI17] ³	Furnished O&M instructions for systems and equipment to the	Complies Does Not			
	building owner or designated representative.	□Not Observable □Not Applicable			
9.2.2.3 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what	Complies Does Not	See the Interior Lighting fixture schedule for		
	is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Not Observable □Not Applicable			

Report date: 04/26/18 Page 8 of 14

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:\BGProjects\8827.04 Frisco Peninsula Recreation Area Day Lodge Page 10 of 14 Expansion\Engineering\Energy\Calcs\Frisco Comcheck.cck

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Frisco Restroom Addition Data filename: S:\BGProjects\8827.04 Frisco Peninsula Recreation Area Day Lodge Expansion\Engineering\Energy\Calcs\Frisco Comcheck.cck



		EL	ECTRICAL SYSTEMS LEGEND		NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.
	LIGHTING FIXTURE SYMBOLS		POWER SYMBOLS		ABBREVIATIONS
	RECESSED LIGHTING FIXTURE DIRECTIONAL/ADJUSTABLE RECESSED LIGHTING FIXTURE		SINGLE RECEPTACLE DUPLEX RECEPTACLE	AFC AFF	ABOVE FINISHED CEILING ABOVE FINISHED FLOOR
<u> </u>	SURFACE MOUNTED LIGHT		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER	AFG	ABOVE FINISHED GRADE
$-\frac{\lambda}{\Theta}$			DOUBLE DUPLEX RECEPTACLE	AHJ	AUTHORITY HAVING JURISDICTION
<u> </u>	LL MOUNTED LIGHT			AL	ALUMINUM
<u> </u>	WALL MOUNTED UP-LIGHT		DUPLEX RECEPTACLE; HALF SWITCHED	AP	ACCESS POINT
 >>	MONO-POINT LIGHTING FIXTURE		ISOLATED GROUND DUPLEX RECEPTACLE	AWG	AMERICAN WIRE GAUGE
	RECESSED STEP LIGHT		MULTI-OUTLET PLUG STRIP	BAS	BUILDING AUTOMATION SYSTEM
———	FLUORESCENT STRIP LIGHT		FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE	BFG	BELOW FINISH GRADE
	WALL MOUNTED LINEAR FLUORESCENT LIGHT		FLUSH FLOOR MOUNTED DOUBLE DUPLEX RECEPTACLE	BMS	BUILDING MANAGEMENT SYSTEM
	RECESSED OR SURFACE MOUNTED FLUORESCENT TROFFER		FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE; HALF SWITCHED	С	CONDUIT
	FIXTURE WITH EMERGENCY BACKUP OR ON EM CIRCUIT		FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE AND TELECOM	CATV	COMMUNITY (CABLE) ANTENNA TELEVISION SYSTEM
	CEILING MOUNTED EXIT SIGN W/ FACES & ARROWS AS SHOWN		WALL MOUNTED SPECIAL OUTLET AS NOTED	CCTV	CLOSED CIRCUIT TELEVISION
 ⊗H	WALL MOUNTED EXIT SIGN W/ FACES & ARROWS AS SHOWN	\square	SPECIAL OUTLET AS NOTED	СКТ	CIRCUIT
	EMERGENCY LIGHTS		JUNCTION BOX	CPU	CENTRAL PROCESSING UNIT
	EXTERIOR POLE MOUNTED LIGHT	<u></u>	WALL MOUNTED JUNCTION BOX	СТ	CURRENT TRANSFORMER
<u> </u>	EXTERIOR POST (BOLLARD) MOUNTED LIGHT		FLOOR MOUNTED JUNCTION BOX	DISP	GARBAGE DISPOSAL
			DIVISION 15 EQUIPMENT POWER CONNECTION	DW	DISHWASHER
	LIGHTING CONTROL SYMBOLS		TIMER SWITCH	(E)	EXISTING
S	SWITCH		FUSED DISCONNECT	EM	EMERGENCY
s ³	THREE-WAY SWITCH		NON FUSED DISCONNECT	EWC	ELECTRIC WATER COOLER
<u> </u>	FOUR-WAY SWITCH		MOTOR STARTER	FA	FIRE ALARM
s	DOOR JAMB SWITCH	СВ	ENCLOSED CIRCUIT BREAKER	FACP	FIRE ALARM CONTROL PANEL
5 	KEY SWITCH	рв 	PULL BOX	FBO	FURNISHED BY OTHERS
sv	VARIABLE SPEED SWITCH		PUSH BUTTON	GC	GENERAL CONTRACTOR
S ^T	THERMAL OVERLOAD SWITCH	<u></u> та	TIME CLOCK	GFI	GROUND FAULT CIRCUIT INTERRUPTER
0	DIMMER	<u> </u>	PHOTO-CELL	GRD	GROUND
	THREE-WAY DIMMER	 	TRANSFORMER	IAW	IN ACCORDANCE WITH
LV	LOW VOLTAGE SWITCH		PANELBOARD OR LOADCENTER	IC	INTERMEDIATE CROSS-CONNECT
s ^o	WALL OCCUPANCY SENSOR/SWITCH	C	CONTACTOR	IDF	INTERMEDIATE DISTRIBUTION FRAME
<u> </u>	OCCUPANCY SENSOR - WALL MOUNTED	$-\underline{\square}$	ELECTRIC MOTOR	IG	ISOLATED GROUND
 DS	OCCUPANCY SENSOR - CEILING MOUNTED		METER	IR	INFRARED
< <u>os</u> >	OCCUPANCY SENSOR - CORRIDOR CEILING MOUNTED	0	THERMOSTAT	LAN	LOCAL AREA NETWORK
	DAYLIGHT PHOTO SENSOR	ATS	AUTOMATIC TRANSFER SWITCH	MDF	MAIN DISTRIBUTION FRAME
			CIRCUIT HOMERUN	(N)	NEW
			CONDUIT RUN	NIC	NOT IN CONTRACT
			CONDUIT RUN BELOW GRADE	NL	NIGHT LIGHT
		o	CONDUIT UP	NTS	NOT TO SCALE
			CONDUIT DOWN	OC	ON CENTER
		S	SWITCH	PA	PUBLIC ADDRESS
		s ^T	THERMAL OVERLOAD SWITCH	REF	REFRIGERATOR
		s	VARIABLE SPEED SWITCH	TTB	TELECOMMUNICATIONS TERMINAL BOARD
		5 	KEY SWITCH	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
				TVTB	TELEVISION TERMINAL BOARD
			ONE-LINE DIAGRAM SYMBOLS	UG	UNDERGROUND
			DISCONNECT SWITCH	UNO	UNLESS NOTED OTHERWISE
			FUSE	V	VOLT
			CIRCUIT BREAKER	W	WATT
		\neg	CURRENT TRANSFORMER	WAN	WIDE AREA NETWORK
		35	POTENTIAL TRANSFORMER	WAP	WIRELESS ACCESS POINT
		M	METER	WLAN	WIRELESS LOCAL AREA NETWORK
		$\overline{\mathbb{V}}$	VOLT-METER	WP	WEATHERPROOF
		A	AMP-METER	XP	EXPLOSIONPROOF
		ss	SURGE SUPPRESSION DEVICE	+18"	MOUNTING HEIGHT TO CENTERLINE OF DEVICE ABOVE FINISH
		Ø	SELECTOR SWITCH		FLOOR (VERIFY W/ ARCH ELEVATIONS)
			GROUND FAULT PROTECTION		
		<u> </u>	SHUNT TRIP		
			NORMALLY OPEN CONTACT	NOTES:	
			NORMALLY CLOSED CONTACT	- LIGHT LI	NEWEIGHT INDICATES EXISTING.
			GROUND		D AREAS INDICATE DEMOLITION.
			COLD WATER GROUND CONNECTION		
		— Ť	BUILDING STEEL GROUND CONNECTION		CENT TO A DEVICE INDICATES C C C C C C C C C C C C C C C C C C C
			1		Π
		L			

	ELECTRICAL SHEET INDEX					
			15	SUE LO	G	
#	TITLE	100% DD - 04.03.18	PERMIT SET - 04.27.18			
E-000	ELECTRICAL COVER SHEET					
E-001	ELECTRICAL SCHEDULES	\checkmark				
E-101	ELECTRICAL DEMO AND NEW PLANS					
E-200	ELECTRICAL SPECIFICATIONS	\checkmark				
ISSUE LC	G KEY:					
' ' NOT	ED AS PART OF SET PART OF SET ED 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

3. 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.

4. 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.

6. REVIEW ARCHITECTURAL, MECHANICAL AND OTHER DRAWINGS PRIOR TO BID.

7. 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.

10. PROVIDE 1/4" SCALE LAYOUT DRAWINGS OF ROOMS WITH ELECTRICAL SWITCHBOARDS AND TRANSFORMERS WITH SHOP DRAWING SUBMITTAL. LAYOUTS SHALL SHOW LOCATIONS OF, AND SHALL BE COORDINATED WITH MECHANICAL EQUIPMENT. ALL EQUIPMENT SHALL BE DRAWN TO SCALE.

11. 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.

12. 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.

13. 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

14. 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.

15. 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.18. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR TO ROUGH-IN.

19. INSTALL ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ANY DEVIATIONS SHALL BE BROUGHT TO THE ARCHITECT/ENGINEER'S ATTENTION PRIOR TO INSTALLATION.

20. 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.

21. 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.
 22. ALL ELECTRICAL SYSTEMS COMPONENTS SHALL BE LISTED OR LARELED BY ULL OR OTHER RECOGNIZED TESTING FACILITY.

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.

24. 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.

25. 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

28. 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).

31. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS SHOW THAT WORK IS DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO COST TO OWNER.

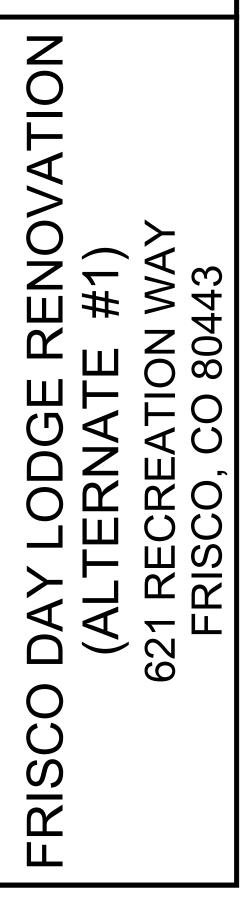
32. GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP WHICH MAY OCCUR UNDER NORMAL USAGE FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE. DEFECTS SHALL BE PROMPTLY REMEDIED WITHOUT COST TO THE OWNER.

33. SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION. LIGHTS, SWITCHES, RECEPTACLES, MOTORS, ETC. SHALL BE CONNECTED AND OPERABLE.



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





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

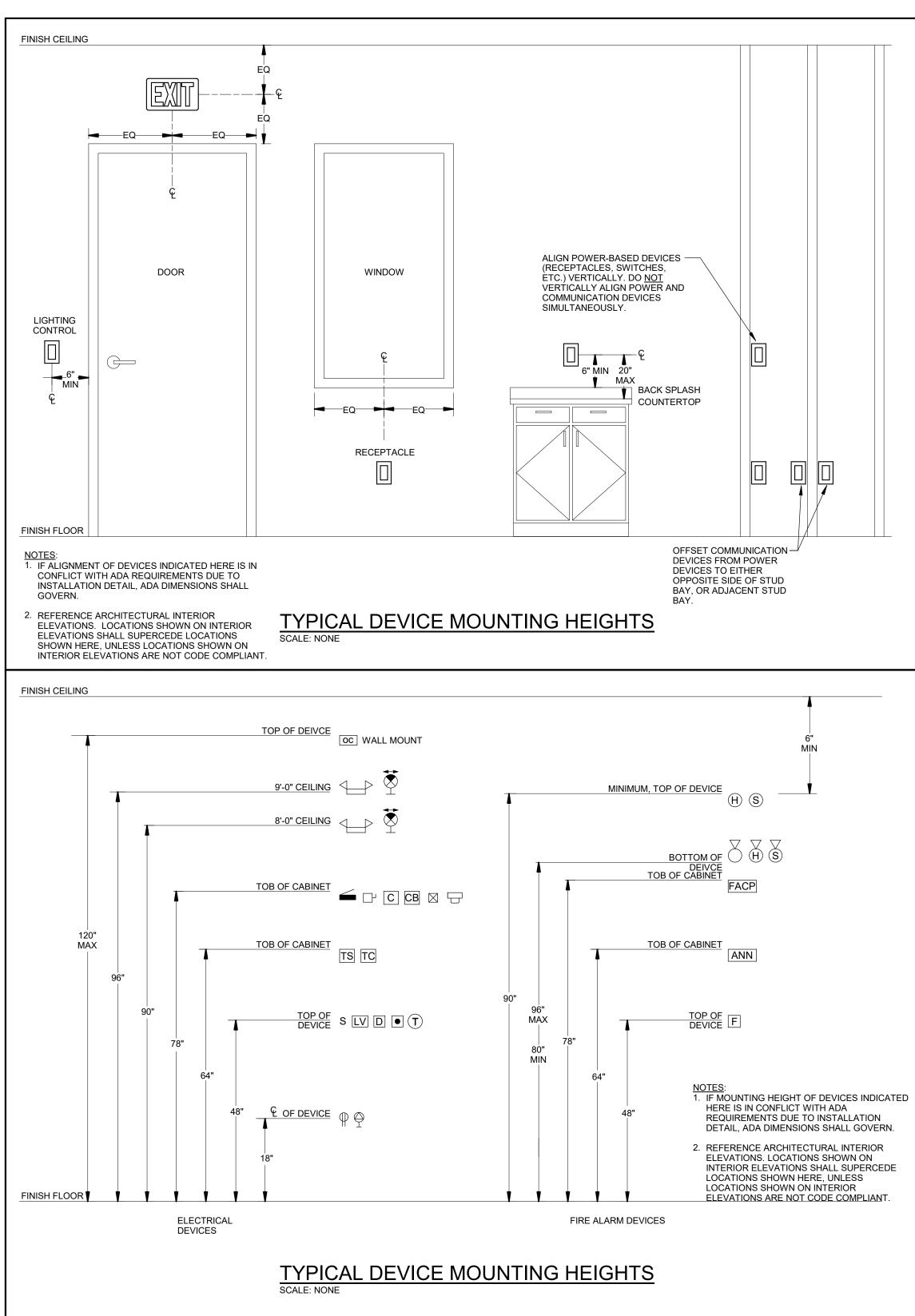
© OZ ARCHITECTURE

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

SHEET TITLE: ELECTRICAL COVER SHEET

SCALE: NOT TO SCALE SHEET NUMBER





			L	.UMINAIRE	SCHED	ULE				
TYPE	DESCRIPTION	MOUNTING		LAMPS	COLOR	INPUT WATTS	VOLT	MANUEACTURER		SPECIFIC
TTPE	DESCRIPTION	MOUNTING	QTY	TYPE	TEMP. (K)	INPUT WATTS	VOLI	MANUFACTURER	CATALOG NUMBER	NOTES
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	
GENER	AL NOTES:		1			-		1		
A.	THE LUMINAIRE SCHEDULE CAN NOT BE USED INDEPENDE PRICING WITHOUT FIRST SEEING APPLICABLE ELECTRICAL SPECIFICATIONS TO THE INDIVIDUAL QUOTING LUMINAIRE	DRAWINGS AN								JOTE
В. С.	REFER TO DRAWINGS FOR FIXTURES REQUIRING EMERGE ALL FLUORESCENT LAMPS ARE TO BE 3500° KELVIN COLO			OPTION (SHOWN BY	HATCH IN/O	/ER SYMBOL). MI		GHT OUTPUT FOR EM	BALLAST SHALL BE 600 LUMENS.	
-	IC NOTES:									
(1)										

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

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							_	LTAC		10.	120/208	V, 3P	H, 4W	/	
LOCATION:	ELEC. RM, 013				-			MA	_		15:	225						
							-							MLO				
MOUNTING:			SURFAC	E]			MI	VIMU	M AI	C:	22,957				
NO. A B) C	TYPE	LOAD DES	CRIPTION	BRE/		A	BUS B	С	BRE/	KER POLE	TYPE	LOAD DES	CRIPTION	A	LOAD B	С	N
1 500	0	М	GF-1		1	20	+		0	20	1	L	EXIT SIGNS		1000		U	2
3 1800		M	B-1		1	20		+		20	1	R	STORAGE			900		4
5	790	М	P-1						+	20	1	R	DOWN OFFIC	ES			900	6
7 790		М	P-1		2	20	+			20	1	R	HALL, ELEC,	MECH	1080			8
9 790		М	P-2		2	20		+		20	1	L	BASEMENT			1512		1
11	790	М	1 -2		<u> </u>	20			+	20	1	L	BASEMENT, S	STAIRS			819	1
13 562		М	P-3		2	20	+			20	1	L	EXT. BUILDIN	NG (1) (2)	428			1
15 562		М	1-0		2	20		+		20	1	L	ROOF HOLID	AY LTG (1)		1500		1
17	562	М	P-4		2	20			+	20	1	L	ROOF HOLID	AY LTG (1)			1500	1
19 562		М					+			20	1	L	ROOF HOLID	AY LTG (1)	1500			2
21 500		М	WH		1	20		+		20	1	L	ROOF HOLID			1500		2
23	500	E	CPU	-	1	20			+	20	1	R	EVENT POWE	ER RECEPT.			180	2
25 1944		M	SP-1, SP-2 R0	CPT	1	30	+			20	1	L	PARKING LIG		468			2
27 748		М	CUH-4, UH-1		1	20		+		20	1	L	PARKING LIG	· · ·		468		2
29			SPARE		1	20			+	20	1		ROAD LIGHT				624	3
31 1000			SPARE		1	30	+			20	1	L	PLAZA LIGHT		936	4000		3
33 1000		E	UH-2 (3)		1	20 20		+		20 20	1	L	ROAD LIGHT	ING(1)		1092	1000	3
35 37 500	1800	E	UH-3 (3) STREET LIGH		1	20	+		+	20	1	E A	RP1		1500	1	1000	3
37 500 39 500		L	_		1	20	т	+		30	1	A	DISHWASHEI	5	1500	1500		2
41	500	E	STREET LIGHTS TEK-MER CONTROLS		1	20		+		30	1	A			1500			
••			TERTIERCOO		· ·	20			-								1000	<u> </u>
LOAD TYPE	PANEL	TOTAL	FEED THRU TOTAL	SUBFEED TOTAL		DER TOTAL		EMAN	D	FEEDEF	TOTAL		A.	GENERA	LNOTE	:5:		
L) LIGHTING		14347			14347			125%			17934		В.					
R) RECEPTACLES		3060			3060		1	IEC 220	C		3060		C.					
LM) LARGEST MOTOR		0			0			25%			0		D.					
MOTORS (ALL)		10900			10900			100%			10900		E.					
E) EQUIPMENT		4800			4800			100%			4800			SPECIFI		S:		
A) APPLIANCES		4500			4500			>6			2925		(1) WIRE T	HRU <u>RP1.</u>				
					ΡΔΝ	IEL TO		(KV4	A):	39	.6			GHTS ADDED TO				
								(1117	y.					ARE BREAKER F	OR NEW	CIRCUIT	•	
					1	TAL (A):		110			(4)							

								1							400/000		1 4147	
PA	NEL:			DL2										IS.	120/208 225	5V, 3PF	1, 477	
LO	CATION:			ELEC. R	-			MA				MLO						
_	DUNTING:			SURFAC						ΜΑΙ	C:	21,589						
			-															
NO.	LOAD A B	С	TYPE	LOAD DES	CRIPTION	BRE/		A	BUS B	С	BRE/	AKER	TYPE	LOAD DES	CRIPTION	Α	LOAD B C	NO
1	1000		А	EWC		1	20	+		-	20	1	L	EXIT SIGNS		1000		2
3	1000		Α	EWC		1	20		+		20	1	R	ORIENTATIO	N RM		1260	4
5		512	M	CUH-1, CUH-2	2. CUH-3	1	20			+	20	1	R	TICKET BOO			540	0 6
7	1500		E	FACP	_,	1	20	+			20	1	R	GALLERY, JA		900		8
9	1200		A	AP-2		1	20		+		20	1	R	MEN'S RR	, 		360	10
11		1200	A	AP-1		1	20			+	20	1	R	WOMEN'S R	R (2)		82	-
13	1500		A	AP-4		1	20	+		-	20	1	R	N. GREAT RC		720	5	14
15				SPARE		1	20		+		20	1	R	S. GREATRO	-		770	16
17		1000	Α	AP-6		1	20			+	30	1	Е	HAND DRYEF			200	
19	1500		Α	AP-3		1	20	+			30	1	E	HAND DRYEF		2000		20
21	720		A	KITCH COUN	TER	1	20		+		30	1	E	HAND DRYEF			2000	22
23		540	Α	KITCH COUN		1	20			+	30	1	Е	HAND DRYEF			200	
25	720		R	FIRST AID		1	20	+			20	1	R	EXTERIOR R	~ /	1260		26
27				SPARE		1	20		+		20	1	Е	MOTORIZED	DOOR		1000	28
29		1800	Α	нот сносо	ATE	1	20			+	20	1	E	MOTORIZED			100	
31	3084		Α					+			20	1	Е	MOTORIZED		1000		32
33	3084		A	PANINI MAKE	R	2	30		+		20	1	E	MOTORIZED			1000	34
35		720	Α	COUNTER CO	OMPUTERS	1	20			+	20	1	E	IRRIGATION	CONTROLS		100	00 36
37	4150		Е					+			20	1	L	MAIN LEVEL		861		38
39	4150		E	WH-2 (4)		2	45		+		20	1	L	LC1			1900	40
41		588	L	RR, JAN, TRA	ASH (3)	1	20			+	20	1	L	LC1 - POWEF	RBOOSTER		190	00 42
	OAD TYPE	PANEI	TOTAL	FEED THRU	SUBFEED		DER	DEMAND		п	FEEDER TOTAL				GENERA		S:	
-				TOTAL	TOTAL	SUBT	OTAL				I LEDEI			A.				
(L) LIGH	ITING		6249			6249			125%			7811		В.				
(R) REC	EPTACLES		7354			7354		N	IEC 22	0		7354		C.				
(LM) LA	RGEST MOTOR		0			0			25%			0		D.				
(M) MOT	TORS (ALL)		512			512			100%			512		E.				
(E) EQU	JIPMENT		22800			22800			100%			22800		ļ		C NOTES		
(A) APP	LIANCES		18348			18348			>6			11926		(1) COORD	INATE C.B. SIZE	WITH MAN	UFACTURER.	•
						DAN	EL TO	ואדמ	(K)//	^ \-	50	.4			ECEPTACLES AD			
						PAN			(1.04	-y.					GHTS/FANS ADD			
						DAN		ואדמ	(Δ)-		14	40		(4) PROVID	E NEW BREAKE	R FOR CIR	CUIT.	
						PANEL TOTAL (A):							(5)					

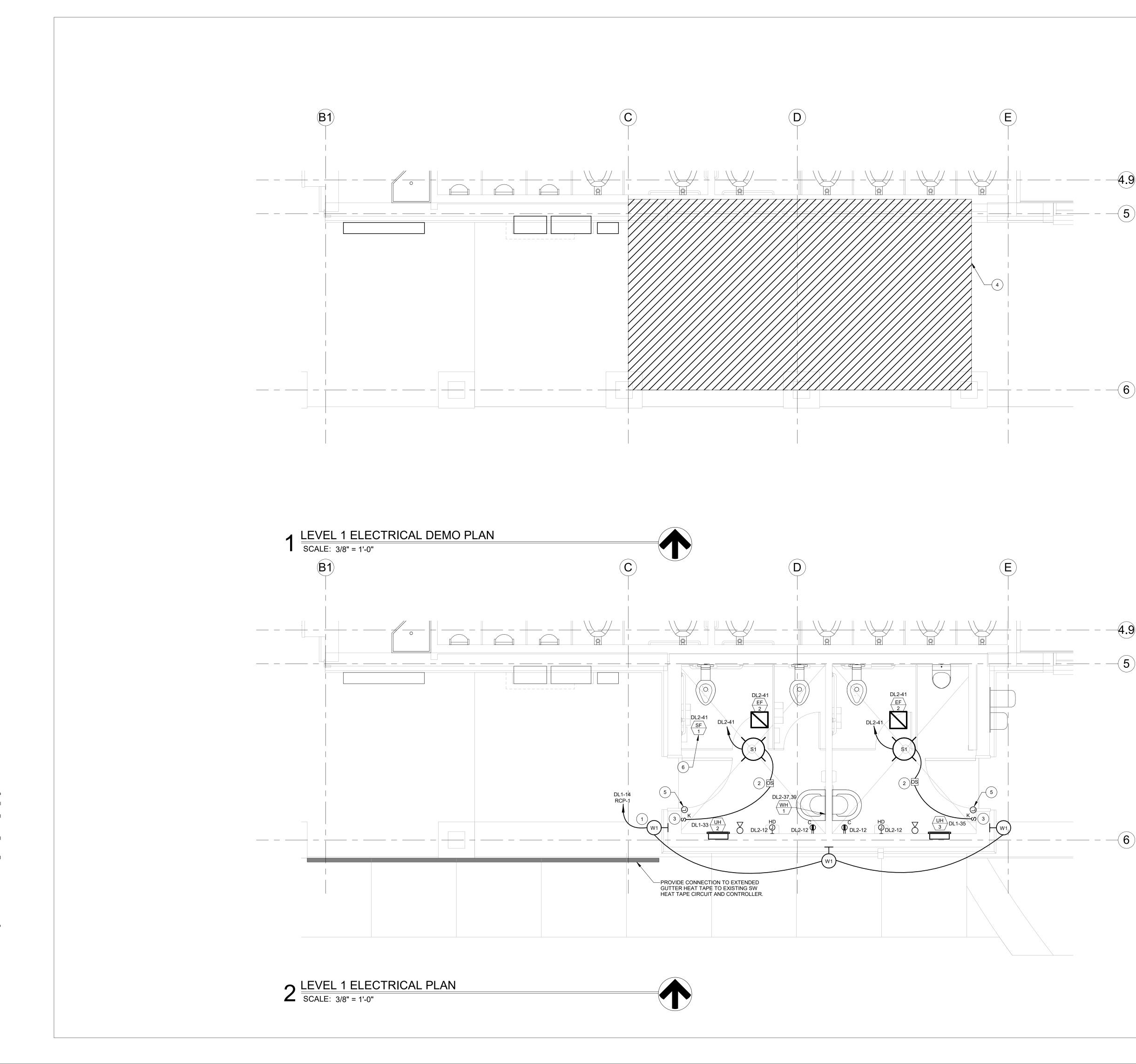


FRISCO DAY LODGE RENOVATION (ALTERNATE #1) **ISSUED FOR:** PERMIT SET

SHEET TITLE: ELECTRICAL SCHEDULES

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

E-001





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.

-4.9

(5)

6

-4.9

-(6)

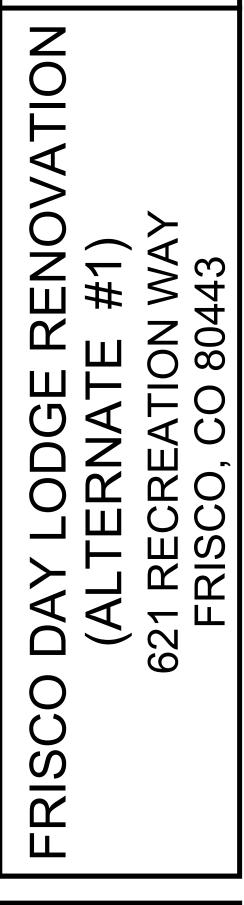
- FIRE PROTECTION PLANS WHICH ARE PART OF THIS DRAWING SET ARE EXPRESSLY NOT FOR CONSTRUCTION. 2.
- THE FIRE PROTECTION CONTRACTOR WHO IS THE WINNING BIDDER SHALL RETAIN THE SERVICES OF A 3. REGISTERED PROFESSIONAL FIRE PROTECTION ENGINEER. SAID FIRE PROTECTION ENGINEER SHALL PERFORM ALL DESIGN CALCULATIONS, 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. 5.

FLAG NOTES:

- 1 EXTERIOR LIGHTING TO BE CONTROLLED THROUGH EXISTING RELAY PANEL.
- 2 PROVIDE WATTSTOPPER LINE VOLTAGE DUAL TECHNOLOGY OCCUPANCY SENSOR (DT-355). LIGHT, EXHAUST FAN, AND SUPPLY FAN TO BE CONTROLLED BY OCCUPANCY SENSOR.
- 3 PROVIDE LEGRAND KEYED LIGHT SWITCH FOR OVERRIDE OF OCCUPANCY SENSOR (PS20AC1).
- 4 WALL TO BE DEMOLISHED. ALL EXISTING CONDUIT TO BE RELOCATED TO MAINTAIN ALL EXISTING CIRCUIT CONTINUITY. VERIFY IN FIELD.
- 5 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.
- 6 SUPPLY FAN TO BE POWERED ON BY EITHER RESTROOM OCCUPANCY SENSOR.

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





PROJ. NO.

DRAWN: EMR CHECKED: BGR APPROVED: BGR DATE: 2018-04-27

© OZ ARCHITECTURE

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

SHEET TITLE: ELECTRICAL DEMO

SCALE: As indicated SHEET NUMBER

E-101

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 specifie
- 1. The drawings and specifications for the electrical work are intended to describe a complete electrical system; omission of minor items obviously necessary to accomplish the above intent shall not relieve the Contractor from providing same.
- 2. Prior to any work being performed under this division examine architectural, structural, mechanical, and interior design drawings and specifications and if any discrepancies occur between them and the electrical drawings and specifications, report same to the Architect in writing and obtain written instructions for the work.
- 3. Electrical drawings are diagrammatic but shall be followed as closely as actual construction of the building will permit. All changes from drawings necessary to make the electrical work conform to the building as constructed shall be made without cost to the Owner
- 4. Coordinate the electrical work with the General Contractor and be responsible to him for satisfactory progress of same. Coordinate electrical work with all other trades on the project without cost to the
- 5. Do not scale drawings. Verify dimensions on architectural drawings and in field prior to commencement
- 6. All work and materials covered by drawings and specifications shall be subject to review at any time by epresentatives of the Architect and Owner. If the Architect or Owner's agent finds any material or installation that does not conform to these drawings and specifications, Contractor shall remove the naterial from the premises and correct the installation to the satisfaction of the agent. 7. In acceptance or rejection of installed electrical systems, no allowance will be made for lack of skill on

the part of the installers.

- 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. 2. Lighting fixtures, wall switches, receptacles and similar items.
- 3. Lighting control system.
- 4. Fire alarm system as required by national, state, and local codes.
- 5. Power Owner furnished equipment

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)
- 2. NFPA 72 National Fire Alarm Code
- NFPA 101 Life Safety Code. 4. NFPA 110 - Emergency Power Systems
- 5. Conform to all applicable State and Local Codes
- 6. American National Standards Institute (ANSI).
- 7. National Electrical Safety Code (NESC).
- 8. Americans with Disabilities Acts (ADA) and American National Standards Institute (ANSI) 117
- 9. National Electrical Manufacturer's Association (NEMA).
- Underwriter's Laboratories (UL)
- 11. Insulated Cable Engineers Association (ICEA).
- 12. International Building Code.
- 13. International Mechanical Code. 14. International Fire Code.
- 15. Institute of Electrical and Electronic Engineers (IEEE).
- B. Comply with requirements of Underwriters Laboratories for all items installed for which U.L. standards have
- C. The drawings and specifications take precedence when they are more stringent than codes, statutes, or ordinances in effect. Applicable codes. ordinances, standards and statutes take precedence when they are more stringent or conflict with the drawings and specifications

1.05 EXAMINATION OF BIDDING DOCUMENTS

- . Each bidder shall ling 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. The Architect will issue any interpretation or correction as an Addendum. Only a written interpretation or correction by addendum shall be binding. No bidder shall rely upon interpretations or corrections given by any other method. If discrepancies ambiguities inconsistencies or errors are not covered by addendum or written directive Contractor shall include in his bid, labor, materials and methods of construction resulting in higher cost. After award of contract, no allowance or extra compensation will be made on behalf of the Contractor due to his failure to make the written requests as described above.
- B. Failure to request clarification during the bid phase of any inadequacy, omission, or conflict will not relieve the Contractor of their responsibilities. The signing of the contract will be considered as implicitly denoting that the Contractor has a thorough comprehension of the full intent and scope of the working drawings and specifications.

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" The Electrical Contractor shall field check all existing conditions prior to bidding and is to include in his bid an allowance for extension, 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.
- B. Where the reuse of existing conduits, wires, devices, etc, is permissible, make certain that the wiring for same is continuous from outlet to outlet and that such circuit or systems shall pass through no outlet or junction boxes which may be rendered inaccessible by the structural changes to be made to the building. Existing conduits wire devices etc. which are not indicated for reuse shall become the property of this Contracto however lighting fixtures, panel fused switches, circuit breakers, fire alarm equipment, etc. shall become the
- C. 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.
- D. 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. Generator system shall be complete and operable and shall include required accessories, fuel tanks, piping, muffler, block heater, battery charger, etc.
- E. Immediately after award of contract, verify available physical space and ampacity of existing panelboards, switchboards, distribution boards, motor control centers, etc., and provide written documentation of findings to the Architect/Engineer. Documentation shall include a minimum 24-hour recording ampere reading on all existing switchgear being utilized for this project.
- F. Provide new updated panelboard directories for existing and new circuits being utilized for completion of project.

1.08 PERMITS, FEES & NOTICES

- A. Obtain and pay for all necessary permits, inspections and certificates that may be necessary for the full completion of the work. Furnish the Owner with a certificate of final inspection and approval from the AHJ over the electrical installation.
- B. Notify proper authorities when work is ready for inspections required by applicable codes, rules and gulations, allowing sufficient time for inspections to be made without hindering progress of the work. Furnish to the Owner copies of inspection certificates of acceptance.
- 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. Promptly repair, revise, and replace defects as directed

with no additional cost to the Owner (lamps and fuses are exempt).

1.11 RECORD DRAWINGS

A. During the progress of the work, maintain an accurate record of the installation of the electrical system. Upon completion of the electrical installation, transfer all record data to prints of the original drawings. Drawings shall include all addendum items, change orders, alternates, reroutings, etc. As a condition of acceptance of the project, deliver to the Architect one copy of the record drawings

1.12 PROTECTION

A. Of People: Arrange barriers, signs, etc. as required to minimize the hazard of people. Comply with applicable safety and health regulations. Coordinate as necessary with the Owner and the General Contractor 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. Repair/replace work

damaged during construction.

- PART 2 PRODUCTS
- 2.01 STANDARD FOR MATERIALS
- A. All electrical material shall be new and of the quality and type specified Manufacturer and catalog number shown in these specifications or on drawings are intended as a guide to quality. Equivalent materials and equipment of other manufacturers will be considered provided such substitutions are requested in accordance with the provisions of paragraph 2.03 and shall include all information necessary to support the claim of equivalency
- No extension of completion date shall be allowed for time lost in consideration, shipping, or installation of approved substitutions. Review of substitutions signifies general equality of materials and equipment only. This review does not relieve the Contractor of responsibility for proper operation of the system, compliance

2.02 SHOP DRAWINGS

- A. Shop drawings required for this project are as follows:
- Lighting fixtures 2. Lamps
- 3. Wiring devices
- 4. Fire alarm and detection system
- B. Present shop drawing submittal data at one time, in digital form, indexed in a neat and orderly manner. Partial submittals will not be accepted. Provide four sets of submittal data, unless noted otherwise in
- C. Place orders for all equipment in time to prevent any delay in construction schedule or completion of projec If any materials or equipment are not ordered in time, additional charges made by equipment manufacturers to complete their equipment in time to meet construction schedule, together with any special handling charges, shall be borne by the Contractor.
- . Shop drawings: Contractor agrees that shop drawing submittals processed by the engineer are not change orders; that the purpose of shop drawing submittals by the Contractor is to demonstrate to the engineer that the Contractor understands the design concept, that he demonstrates his understanding by indicating which equipment and material he intends to provide and by detailing the fabrication and installation methods he intends to use. Contractor further agrees that if deviations, discrepancies, or conflicts between shop drawing submittals and contract documents in the form of design drawings and specifications are discovered either prior to or after shop drawing submittals are processed by the engineer, the design drawings and specifications shall control and shall be followed.

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. Bid alternate proposal(s)
- must be accompanied by full descriptive data on the proposed equipment, together with a statement of the cost to be added or deducted for each item. The bid alternate shall include all materials, equipment, labor, connections, coordination with all other trades, etc. for a complete and operational system.
- 3. The Contractor shall submit the bid alternates at the time the base bids are due

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. B. Performance Specifications: When any item is specified by requirements to meet a performance, industry or regulating body standard, or is specified by a generic spec, (no manufacturer's name listed) no prior review by the Engineer is needed unless specifically called for in these specifications.
- C. Contractor to be responsible for any changes and costs to accommodate any equipment except the first named in the specification.
- D. Substitutions of Material (Contractor and owner initiated) 1. Other items of material and equipment not listed as equivalents may be offered (at the Contractor's
- option) as substitutions to specified items by submitting it as a separate price with his base bid on the Bidder's letterhead 2. Such substitute proposals shall not be included under the base bid and must be accompanied by full descriptive data on the proposed equipment, together with a statement of the cost to be deducted for each
- item and all deviations from specified items. Highlight all difference from specified equipment. If any such substitutions are to be considered, the Contractor shall submit a list of the proposed substitutio items within 14 days of award of contract. Late requests for proposed substitutions shall not be accepted by the Engineer due to scheduling or delivery concerns 3. If substitutions are rejected, Electrical Contractor shall supply base bid item as specified.
- 2.05 PRODUCT HANDLING
- A. Use all means necessary to protect electrical system materials before, during and after installation and to protect the installed work and materials of all other trades.
- B. In the event of damage, immediately make all repairs and replacements necessary to the approval of the Architect at no additional cost to the Owner.
- Upon completion of all installations, lamping and testing, thoroughly inspect all exposed portions of the electrical installation and completely remove all exposed labels, soil, markings, and foreign materials.

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. Sequence, coordinate, and integrate installations of electrical materials and equipment for efficient flow of the
- Work. Give particular attention to large equipment requiring positioning prior to closing-in the building. Any changes or deviations from the drawings and specifications must be accepted in writing by the Architect/Engineer All errors in installation shall be corrected at the expense of the Contractor All specialties shall be installed as detailed on the drawings. Where detail or specific installation requirements are ovided, manufacturer's recommendations shall be followed.
- Upon completion of work, all equipment and materials shall be installed complete, thoroughly checked, correctly adjusted, and left ready for intended use or operation. All work shall be thoroughly cleaned and all residue shall be removed from surfaces. Exterior surfaces of all material and equipment shall be delivered in a perfect, unblemished condition
- Contractor shall provide a complete installation, including all required labor, material, cartage, insurance, permits, and taxes.
- 3.02 PROGRESS OF WORK

3.04 CUTTING AND PATCHING

A. Order the progress of electrical work to conform to the progress of the work of the other trades. Complete the entire installation as soon as the condition of the building will permit. Any cost resulting from defective or ill-timed work performed under this Section shall be borne by this Contractor.

new utilities and, if damaged by this Contractor, replace or repair.

form to the fire rating for the surface penetrated.

safekeeping until the final installation has been reviewed and accepted.

3.05 DELIVERY AND STORAGE OF MATERIALS

A. Perform all trenching and backfilling required by work performed under this Section in accordance with the

excavating and grading specifications as herein specified. This work shall comply with the requirements of

B. Excavate trenches to the depth required for the utilities involved. The trench bottom shall be graded true and

the open trench. Unless otherwise noted, the disturbed surfaces shall be replaced equal to the original

materials removed. After acceptance by the Architect, backfill, tamp, and compact to insure against the

possibility of differential settling, in conformity with Division 2 Specifications. Verify location of existing or

. Underground Utility Identification: Provide a six-inch (6") wide, yellow colored plastic tape. Install the tape

A. Provide all cutting, trenching, backfilling, patching and refinishing or resurfacing required for electrical work

B. All openings made in fire-rated walls, floors, or ceilings shall be patched and made tight in a manner to

A. Arrange and be held responsible for delivery and safe storage of materials and equipment for electrical

B. Carefully check materials furnished to this Contractor for installation, and provide receipt acknowledging

acceptance of delivery and condition of the materials received. Thereafter, assume full responsibility for its

alternate and imprinted in large, legible, black letters "Caution - Electrical Utilities Below".

in a manner meeting the approval of the Engineer and at no additional cost to the Owner.

for the continuous length of all underground primary raceways provided under this contract. Tape shall be

buried not less than twelve inches (12") below finished grade. Tape shall be Brady "Identoline" or acceptable

construction, to the original grade with the same type of material, and to the same depths and limits as the

blacktop, shall have the width of the surface cutting extended for a width of eight inches (8") on each side of

free from stones or soft spots. Trenches through specially treated or surfaced areas, such as paying or

3.03 TRENCHING AND BACKFILLING

Table 300.5 of the National Electrical Code.

ELECTRICAL SPECIFICATIONS: 3.06 PROTECTION OF WORK AND PROPERTY Where there are existing facilities, be responsible for the protection thereof, whether or not such facility is to be removed or relocated. Moving or removing any facility must be done so as not to cause interruption of the work of Owner's operation.

Any equipment or conduit systems found to have been damaged or contaminated.

refinish and repaint at the discretion of the Architect

B. Close all conduit openings with caps or plugs during installation. Cover all fixtures and equipment and

protect against injury. At the final completion, clean all work and deliver in an unblemished condition, or

- above "MILL" or "SHOP" conditions shall be replaced or cleaned to the Engineer's satisfaction. 3.07 FINAL ACCEPTANCE A. Final acceptance by the Owner will not occur until all operating instructions are received and Owner's onnel have been thoroughly indoctrinated in the maintenance and operation of all equip B. Operating manual, parts lists, and indoctrination of operating and maintenance personnel: Furnish the services of a gualified representative of the supplier for each item or system itemized below who shall instruct specific personnel, as designated by the Owner, in the operation and maintenance of that item or system. Clean up: Remove all materials, scrap, etc., relative to the electrical installation and leave the premises and all equipment, lamps, fixtures, etc. in a clean, orderly condition. Any costs to the Owner for clean up of the site with specifications and necessary changes due to dimensional differences or space requirements. will be charged against the Contractor. F. 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, including all systems provided under this contract. 3.08 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. Repaint trims, housing, etc., where such markings cannot be readily removed. Defaced finishes must be refinished. All engraved metal or plastic nameplates shall be white letters on a black or gray background. Raised letter type tape shall not be used. No abbreviations in labeling will be mitted without special approval. All panelboards shall be labeled as designated on the electrical drawings. Thoroughly clean surface to which pressure sensitive type labels are applied to assure adherence of label. Directory cards, nameplates, and labels shall indicate the general area and type of electrical load served by each circuit. Provide the following types of labels at these locations. 1. On each feeder switch, combination starter, or circuit breaker located in motor control centers, main service equipment, the main switchboard or panelboard, subdistribution panelboards, and all special equipment housed in cabinets, the labeling shall be one fourth inch (1/4") minimum height letters. 2. On each separate mounted disconnect and starter for a motor or fixed appliance, indicate motor or appliance designation, voltage, and phase. (Motor or appliance designations shall be as given on the Mechanical or Architectural plans.) Use three-sixteenth inch (3/16") minimum height letters. On telephone terminals indicate terminal number. 4. On all branch circuit panelboards indicate panel designation, voltage and phase. Use three-fourths
 - inch (3/4") minimum height stenciled letters in metal tape or one-half inch (1/2") engraved letters on laminated nameplate. Apply to the inside of each door. All emergency panels and disconnects shall be painted with red enamel.
 - 5. For all branch circuit panelboard directories, provide neatly typed, removable cards and protective plastic faces. Spare circuit breakers shall be identified as such
 - 6. For all device plates for switches used to control exhaust fans or other equipment, provide one-eighth nch (1/8") minimum height black filled, engraved letters on stainless steel device plate 7. For all receptacle device plates, provide one-eighth inch (1/8") minimum height letters on white (normal
 - power) and red (emergency power) nameplates indicating panel and circuit number.
 - 8. For all exposed conduits, junction boxes, wiring gutters, etc., provide three-fourths inch (3/4") minimum height stenciled letters, or one-half inch (1/2") minimum height pressure sensitive labels equal to Brady self-sticking vinyl cloth. Labels shall be provided at the following locations:
 - a. Entering or leaving panels or switchgear or enclosures b. All junction boxes shall be identified as to circuits contained within.
 - c. Exposed conduits containing circuits above 600 volts shall have voltage labeled at least once for each exposed length or not more than fifteen feet (15'-0") apart.

3.09 CONSTRUCTION LIGHTING AND POWER

A. Provide all temporary facilities required to supply construction power and light. Install and maintain facilities in a manner that will protect the public and workmen. Comply with all applicable laws and regulations B. The General Contractor shall pay for all power and light used by him and his subcontractors where construction power is separately metered, or is taken from the permanent project metered service solely for

3.10 REMODELING PROVISIONS

construction use.

- Existing systems and conditions shown on the drawings are provided for guidance only. The Electrical Contractor shall field check all existing conditions prior to bidding and shall include in his bid an allowance for the removal and 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 systems to all other work equired for this project
- 3. Where the reuse of existing conduits, outlets, junction boxes, etc., is permissible, make certain that the wiring form them is continuous from outlet to outlet. Provide modifications to assure that circuits, or system, shall not pass through outlets or junction boxes which may be rendered inaccessible by changes to be made to the uilding. Existing conduits, wire, devices, fixtures, etc., which shall be removed shall become the property of this Contractor unless otherwise noted
- C. Connect new work to existing in a manner that will assure proper raceway grounding throughout in conformance with the National Electrical Code.
- D. Remodel Work Cutting and Patching: The Contractor shall perform cutting, channeling, chasing, drilling, etc., as required to install or remove electrical equipment in areas of remodeling. This work shall be performed so as to minimize damage to portions of wall finishes, surfaces, plastering, or the structure which are to be reused, resurfaced, plastered or painted under another division of these specifications.
- E. Carefully coordinate with the required remodeling work, cutting and patching etc., performed by the other trades. Remove or relocate existing electrical conduits, wires, devices, fixtures and other equipment as necessary.
- F. All outages on portions of existing electrical systems shall be minimized and shall be at a time and of duration as accepted by the Owner.

END OF SECTION 26 00 10 SECTION 26 10 00 - BASIC MATERIALS AND METHODS

GENERAL (Not Used)

PART 1 -PART 2 - PRODUCTS

2.01 RACEWAYS AND FITTINGS

A. Conduit

- 1. Conduits installed underground or in grade slabs shall be Schedule 40 PVC with ground wire 2. Conduits subject to mechanical damage or where otherwise required by code shall be galvanized rigid
- heavy wall conduit; all other conduit may be electric metallic tubing. 3. Flexible metallic conduit shall be used where vibration or other reasons do not allow solid connections to motors, equipment, etc. Flex may also be used to fish in existing walls or where required to connection in millwork. The use of flex shall be held to a minimum. Where flexible metallic conduit is used in areas subject to moisture, PVC-coated flex (Liquidtight) shall be used.
- 4. Where approved by applicable codes, type "MC" branch circuits.

B. Fittings

- 1. Use solvent welded fittings for all PVC conduit.
- 2. Use set-screw or compression fittings for all EMT conduit.
- 3. Use threaded fittings for all rigid conduit

2.02 WIRE AND CABLE

- A. Voltage range 0 to 24: High conductivity copper, thermo-plastic insulation, 300 volt rating. B. Voltage range 24 to 600: High conductivity copper, moisture-resistant thermo-plastic insulation, 600 volt
- 75°C rating for general use. For HID fixtures and wiring within 3 inches of fluorescent ballasts, wire shall be copper, minimum 90°C rated. Sizes indicated are for installation in a maximum 30°C ambient. Conducted ampacity shall be derated for higher ambient installations. 600 volt aluminum wire and cable in sizes 1/0 and larger may be substituted for copper on services and feeders if ampacity is equal to or greater than copper. voltage drop is equal to or less than copper, and termination at switches, lugs, circuit breakers, etc., is with Mac-adapt series "MPT" machine compression adapters or equal. C. Conductors used specifically for equipment or service ground may be bare or have insulation to match
- circuit/feeder conductors.
- 2.03 WIRE CONNECTIONS
- A. All electrical connections shall be electrically and mechanically secure, using the following methods: 1. Wire size #8 and smaller--pressure type connectors (scotch-lok) or equivalent
- 2. Wire size #6 and larger--mechanical or compression lugs, Burndy, T & B, Ilsco or equivalent B. Wire termination provisions for panelboards, circuit breakers, safety switches, and all other electrical apparatus shall be listed as suitable for 75°C

2.04 SURFACE RACEWAYS

approved equal.

- A. Surface Metal Raceways: Galvanized steel with snap-on covers. Manufacturers standard enamel finish in
- B. Manufacturer shall be Thomas& Betts Corporation, Walker systems, Inc. (The Wiremold Company), or

- 2.05 OUTLET BOXES
- A. Outlet boxes shall be: one piece steel, galvanized, Steel City Electric, Appleton Electric, Raco or approved
- 2.06 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. Color shall be ivory unless noted otherwise by Architect. B. GFCI receptacles shall be straight blade feed through type with indicator light that is lighted when device is
- C. Switches shall be 120/277V, 20A, rocker type.

equivalent. Where NMC or ENT is used, plastic boxes are acceptable

- D. Wall Switch Occupancy Sensors: 120/277V, adjustable time delay up to 20 minutes, 180 degree field of view switch a minimum coverage area of 300 square feet. Passive infrared type shall be Watt Stopper WS-200. Adaptive technology type shall be Watt Stopper WA-200.
- E. Wall plates shall be smooth, high-impact thermoplastic material for finished spaces. Smooth, high-impact thermoplastic for unfinished spaces.
- Wet locations weatherproof cover plates shall be NEMA250, complying with type 3R weather resistant in-use rating die-cast aluminum with lockable cover

PART 3 - EXECUTION 3.01 CONDUIT INSTALLATION

- A. All feeder wiring shall be installed in listed metallic raceways. Raceways in slab-on-grade or below grade shall be schedule 40 PVC. Transitions from below to above grade shall be with rigid steel elbows with P.V.C
- Jacket or approved equal protection. EMT fittings shall be malleable iron or steel. Connectors shall be insulated throat type. . Make conduit bends with standard conduit elbows or conduit bent to not less than the same radius. All bends 3.01 INSTALLATION shall be free from dents or flattening.
- All fittings in wet places, locations exposed to weather, or buried in masonry, concrete or fill, shall be water-tight. Apply listed compound to threads of raceway and fittings before making up joints. Follow
- compound manufacturer's instructions. . At locations subject to moisture or vibration, use insulating bushings to protect conductors, including
- conductors smaller than No. 4 AWG . Cap conduit ends to prevent entrance of foreign materials during construction.
- F. Run concealed conduits in a direct line. Run exposed conduits parallel to, or at right angles with, lines of the building. Install all conduits at least 6" away from flues, steam and hot water pipes. Install horizontal raceway runs above water and steam piping.
- G. Run underground conduits a minimum of 2' 0" below grade.
- Seal all conduit penetrations of fire rated walls, floor, or ceilings with U.L. listed "Dow Corning" #2000 or #2001 fire stop sealant or equivaler
- All empty raceway systems shall have a polypropylene pullwire 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. Non-metallic and flexible metal conduits shall have a code-sized copper grounding conductor. Increase conduit size as required
- K. Conduits penetrating through roof shall have roof flashing with caulk type counter flashing sleeve.
- Installation shall be watertight. Where panels are installed flush with walls, empty conduits shall be extended from the panel to an accessible space above or below. A minimum of one 3/4"c shall be installed for every three single pole spare circuit breakers or spaces, or fraction thereof, but not less than two conduits.
- 3.02 WIRE INSTALLATION
- A. Branch circuit conductors shall be as follows:
- 1. For general applications through size #8: THWN 75oC wire and full size ground, or type THHN 90oC.
- 2. Branch circuit conductors through size #10 to be solid, #8 and larger stranded 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. No more than eight (8) duplex receptacles shall be on any one branch circuit. Circuits serving bathroom GFCI receptacles may serve lighting but shall not serve any other receptacles 5. Lighting branch circuit shall not be loaded to more than 70% of breaker rating, in effect, 14 amps per
- B. The drawings indicate the general direction of routes of branch circuit home runs. Continue all such home
- runs to panels as though the routes were completely indicated. 1. Conductors shall be continuous from outlet box to outlet box, or junction box, with no splices except in
- 2. Do not install wire in conduits until after plastering or drywall is completed and all moisture has been removed from conduits.
- 3.03 WIRING DEVICE INSTALLATION
- A. Review architectural and mechanical drawings before installing outlets. Changing of outlets to conform to these drawings and any other slight change in mounting height or location of outlets required shall be considered as a part of this contract. Use outlet boxes of sufficient size and shape to best suit the particular location and to contain the enclosed wire and connections without crowding. Size all boxes per N.E.C. Article 370 3. Switch and receptacle outlet boxes shall be standard boxes with cover plates. Where more than one switch or
- device is located at one point, use gang boxes and gang cover plat Receptacles in wet locations shall be installed with a hinged outlet cover/enclosure marked "suitable for wet
- locations while in use" and "UL listed". There must be a gasket between the enclosure and the mounting surface, and between and hinged cover and mounting plate/base to assure proper seal. Taymac; specification grade or equivalent. D. Flush mount lighting switches 4'0" centerline above finished floor unless otherwise indicated. Flush mount
- wall type receptacles and other wall mounted wiring devices and outlets [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. Use extra bracing, supports, etc. as necessary to provide a proper and substantial base to which all electrical equipment is attached.
- 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. Inspect owner furnished equipment for damage, defects, missing components, etc. Report deficiencies to the Owner immediately. Do not install or connect deficient equipment.

END OF SECTION 26 10 00

SECTION 26 50 00 - LIGHTING & LIGHTING CONTROLS

PART 1 - GENERAL 1.01 PROVISIONS

- A. Provide all interior and exterior lighting fixtures as shown on the plans and hereinafter specified. All items shall be provided to make a complete and operable lighting system, including lamps, ballasts, poles, hangers, painting, plaster frames, etc.
- B. Fixtures shall be as shown in the fixture schedule. Catalog numbers shown are the latest available at the time of design. If discrepancies occur between description and catalog number, description will take precedence. C. Verifv trim, finish and general description of all lighting fixtures through shop drawing approval prior to
- placing order for fixtures. Modify catalog numbers accordingly D. If it is necessary for the Architect/Engineer to reselect 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's/Engineer's services. 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.

ceiling material.

housinas

2.04 LAMPS

PART 1 - GENERAL

SECTION 28 30 00 -FIRE ALARM SYSTEMS

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

B. Factory-Applied Labels: Comply with UL 1598. Include recommended lamps. Locate labels where they will be readily visible to service personnel, but not seen from normal viewing angles when lamps are in place.

1. Label shall include the following lamp characteristics a. "USE ONLY" and include specific lamp type

Lamp diameter, shape, size, wattage, and coating c. CCT and CRI.

C. Recessed luminaires shall comply with NEMA LE 4. 2.03 EMERGENCY OR NIGHT LIGHTING

A. Fixtures indicated as being on emergency, or night light circuits shall be provided with self-contained battery powered inverter unit for direct mounting in fixture. Provide unit with fully automatic two rate charger. nickel cadmium battery, AC "on" pilot light, and test switch. Design and wire unit to automatically transfer to battery supply on loss of normal AC power and to operate 32 watt T8 fluorescent lamp with minimum output

of 600 lumens for minimum 1-1/2 hours.

A. Lamps shall be as shown in the fixture schedule as manufactured by Osram-Sylvania, G.E., Phillips, or approved equivalen

PART 3 - EXECUTION

A. Install lighting fixtures straight and true with reference to adjacent walls, and securely fasten to and support by structural members of the building. Refer to architectural or interior reflected ceiling plans and elevations

for exact location of fixtures. B. Provide photocontrols, time clocks, contactors, relays, etc. to control interior and exterior fixtures. All items for lighting controls that are to be mounted outdoors or in wet locations shall be installed in weatherproof

C. Recessed light fixtures installed in gyp. board or plaster ceilings shall have plaster frames installed prior to

D. Multi-ballasted fluorescent fixtures shall be dual switched unless noted otherwise. E. Fixtures recessed in "t-bar" ceiling shall be supported independently of ceiling system, with four #12 hanger wires up to structure. Secure hanger wires to corners of fixture. Clip fixture to grid on two sides with

factory-furnished clips. Final connection to fixture shall be made with a flexible U.L. approved assembly END OF SECTION 26 50 00

DIVISION 28 - ELECTRONIC SAFETY AND SECURITY SYSTEMS

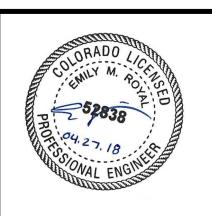
3.01 EXISTING FIRE ALARM SYSTEM EXTENSION

1. All devices shall be compatible with existing fire alarm system components 2. Provide devices and wiring to match, as required for a complete and operable system

END OF SECTION 28 30 00



3003 Larimer Street Denver, Colorado 802(phone 303.861.5704 www.ozarch.com



\bigcirc ∞ S

PROJ. NO.

DRAWN: Author CHECKED: Checker APPROVED: Approver DATE: 2018-04-27

© OZ ARCHITECTURE

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

SHEET TITLE: ELECTRICAL SPECIFICATIONS

SCALE: SHEET NUMBER

