

ALTEERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186

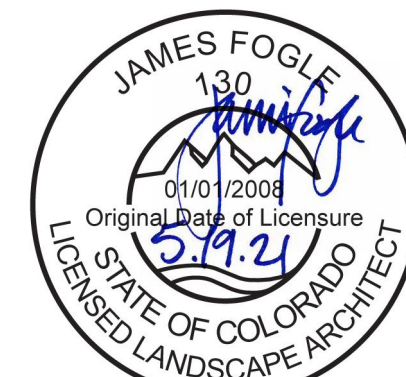


12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100

14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

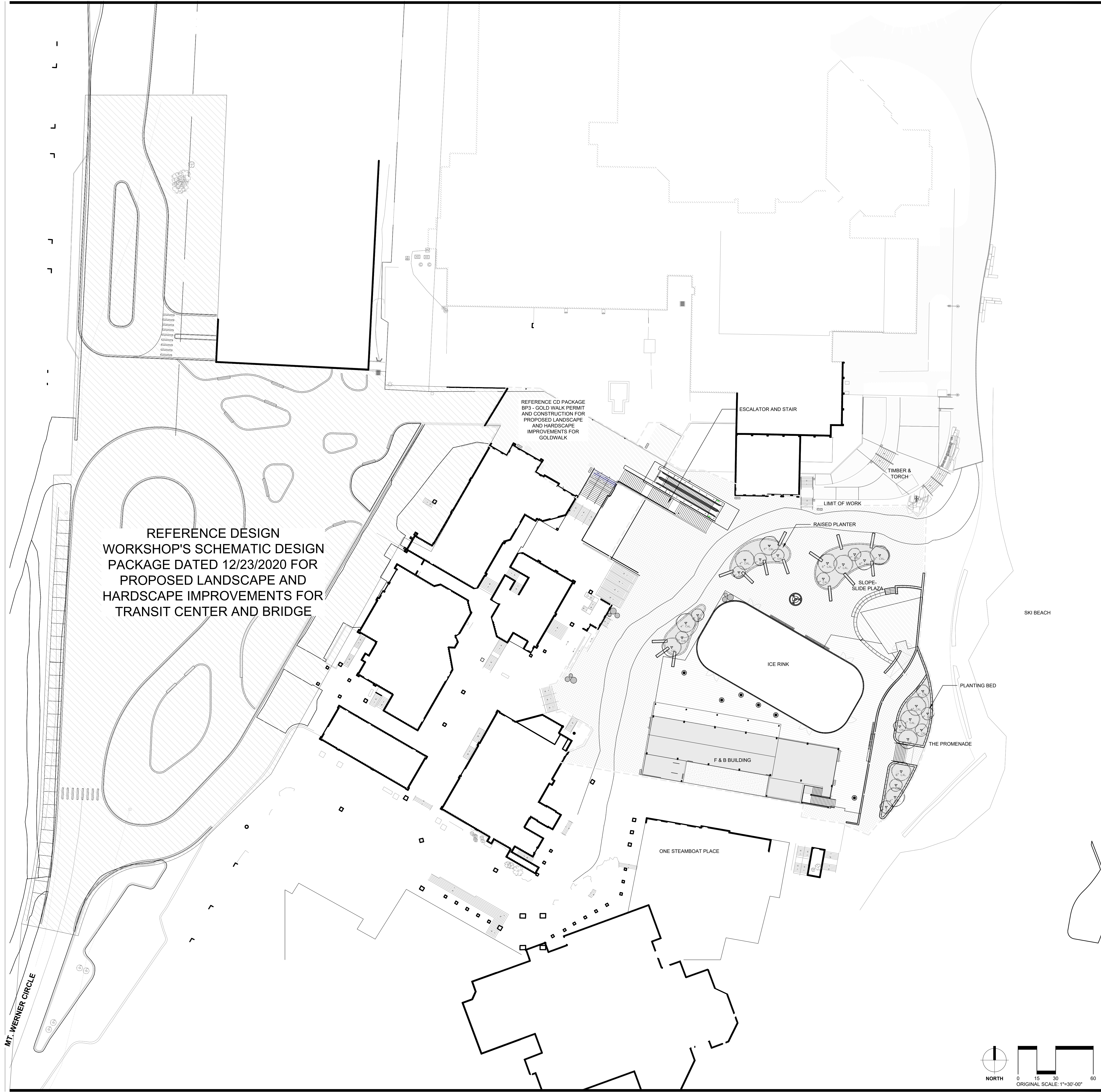
BP3 PROMENADE PERMIT
AND CONSTRUCTION

Project Number 003.7835.000
DW Project Number 6466

Description
BP3: PROMENADE - ISSUE FOR BID
AND PERMIT

HARDSCAPE
REFERENCE
PLAN

1A-L0-01



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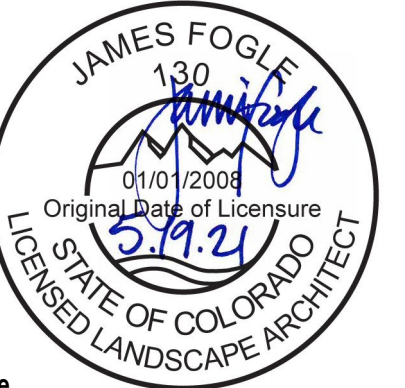


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Project Name

BP3 PROMENADE PERMIT AND CONSTRUCTION

Project Number 003.7835.000 DW Project Number 6466

Description
BP3: PROMENADE - ISSUE FOR BID AND PERMIT

SOFTSCAPE
REFERENCE
PLAN

1A-L0-02



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Fax 303.625.6823



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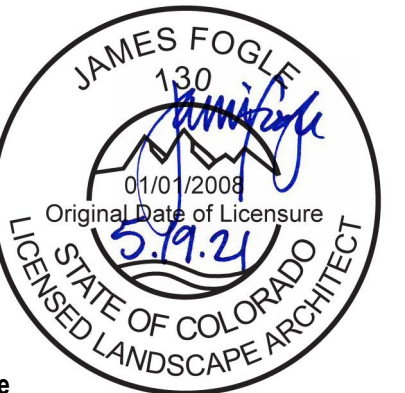


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Description

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**SITE
KEY
PLAN**

1A-L0-03

GENERAL NOTES

- Landmark prepared the survey for this project. It has been reformatted for use in and for preparation of these documents. Contractor shall obtain officially signed copy from Landmark and become familiar with it, the existing conditions and site context prior to construction. All discrepancies should be brought to the attention of the Landscape Architect for immediate resolution. Landscape Architect is not responsible for errors or omissions associated with preparation or documentation of survey.
- North West Colorado Consultants, Inc. prepared the geotechnical investigation and report for this project. It has been referenced during preparation of these documents. Contractor shall obtain officially signed copy from North West Colorado Consultants, Inc. and become familiar with it prior to construction. All discrepancies should be brought to the attention of the landscape architect for immediate resolution. Landscape Architect is not responsible for errors or omissions associated with preparation or documentation of report.
- Contractor is responsible for determining means and methods for construction. These drawings may indicate a limit of proposed improvements, limits of site demolition, etc. for delineation of expected extents of disturbance, however, final impact shall be determined in the field. Should limits of disturbance exceed boundaries defined in drawings, Contractor shall contact Landscape Architect for resolution.
- Contractor is responsible for repairing all work disturbed by construction outside of limit lines defined on drawings or through his/her means and methods and General Conditions to a condition acceptable to the owner at no additional cost.
- Contractor is responsible for protecting all existing conditions, improvements, utilities, etc. to remain. Any damages shall be repaired to a condition acceptable to the owner at no additional cost.
- Contractor is responsible for maintaining a complete up-to-date set of Drawings and Specifications at the construction site and ensuring the documents are readily available for review by the Landscape Architect and governing agency.
- The Drawings and Specifications are complementary to one another and implied to correspond with one another. Any discrepancies should be brought to the attention of the Landscape Architect for immediate resolution.
- Contact the local underground utility service locator for utility locations and identification prior to commencing work and maintain in field throughout construction unless indicated or directed otherwise.
- Verify plant protection, stormwater pollution protection plan (SWPPP), existing improvement to remain, and Contractor site control measures are in place prior to commencing with construction. Do not proceed with construction if not in compliance and maintained throughout. Coordinate with Owner's Representative and authorities having jurisdiction as required.
- Synthetic turf is seasonal and specification information is included for reference.

SITE LAYOUT NOTES

- Layout and dimensions provided on Drawings are based on combination of Northing and Easting Coordinate System and Traditional Dimensioning System.
- Verify utility locations, plant protection and stormwater pollution protection plan (SWPPP) measures are in place prior to commencing construction. Do not proceed with construction if not in compliance and maintained throughout.
- Layout and verify dimensions prior to construction. Field stake all proposed improvements for review and approval by Landscape Architect unless indicated otherwise. Bring discrepancies to the attention of the Landscape Architect for final direction. Landscape Architect reserves right to make field adjustments and layout decisions in field as necessary at no additional cost to owner.
- Request inspection of field staking by Landscape Architect a minimum of 24 hours in advance of performing any work unless indicated otherwise.
- For dimensions of buildings, garages, trash enclosures, patios and related work, refer to the architectural drawings. Copies of these drawings are available from the owner.
- Written dimensions take precedence over scale. Bring discrepancies to the attention of the Landscape Architect for final direction.
- This drawing includes the dimensional controls for lighting fixtures, area drains, (list additional line items).
- Where dimensions are called as "equal," space referenced items equally, measured to their center lines.
- Measurements are to face of building, wall or of the fixed site improvement. Dimensions to center lines is indicated.
- Provide expansion joints where concrete flatwork meets vertical structures such as walls, curbs, steps and building elements.

SITE LIGHTING NOTES

- This Lighting package consists of Lighting Layouts, Details, Fixture Schedule, Fixture Cuts and Written Specifications. Acquire all elements of this submittal to have a complete understanding of the Project's Lighting. Only the specified fixtures, lamps and auxiliary equipment required to properly install these fixtures shall be used.
- The intention of the lighting package is to provide a job complete in every respect; the Contractor shall be responsible for this result.
- The Contractor is responsible for the completed project meeting all local, state and federal codes and requirements pertaining to the work, as well as all applicable standards of practice.
- Contractor to advise the Designer of conditions in the field that conflict with manufacturer's mounting instructions, design intent, codes, or standards of practice and await clarification prior to proceeding with installation.
- Lighting symbols on plans are diagrammatic. Refer to details and specifications for actual dimensions and product information.
- Contractor shall ensure luminaires are installed in accordance with Manufacturer's specifications and such that adjustable fixtures have been aimed and glare reducing accessories have been affixed to eliminate offsite glare.
- Layout dimensions are for general reference only. Final location to be determined in the field by the Landscape Architect.
- Lighting pull-boxes, vaults and other in-grade appurtenances shall be flush with adjacent finish grades or surfaces unless otherwise indicated. Notify Landscape Architect if located on a slope greater than 5% for direction.
- Contractor shall have ultimate responsibility for matching transformer and driver size and specification to the Project's control and dimming system as specified by the Electrical Engineer. When such appurtenances are remote to the fixture, they shall be placed in approved locations that are accessible and as close to the fixture as possible. Every effort shall be made by the Contractor to properly camouflage remote boxes for these devices via location and finish color. Contractor shall allow no more than a 5% voltage drop to any fixture by calculating on a case by case basis the required sizing of wire determined by length of run and amperage required.
- Coordinate with existing and proposed underground utilities. Notify Landscape Architect and Electrical Engineer of any conflicts for direction on fixture placement.
- Final location and specification of building attached light fixtures (F3) will be shown on the Electrical Engineer's drawing set.
- All exposed power sources, conduit, and wiring to be effectively camouflaged using paint, location, and visual screening per Landscape Architect's instruction (TYP).

LANDSCAPE PLANTING NOTES

- Refer to Civil Engineer's utility and site grading and drainage plans as required. If actual site conditions vary from what is shown on the plans, contact the Landscape Architect for direction as to how to proceed.
- Verify locations of pertinent site improvements installed under other sections. If any part of this plan cannot be followed due to site conditions, contact Landscape Architect for instructions prior to commencing work.
- Exact locations of plant materials shall be approved by the Landscape Architect in the field prior to installation. Stake or otherwise layout all proposed planting for review. Landscape Architect reserves the right to adjust plants to exact location in field.
- Verify plant counts and square footages. Quantities are provided as Owner information only. If quantities on plant list differ from graphic indications, then graphics shall prevail. If graphics are inconclusive contact Landscape Architect for clarification.
- Perform excavation in vicinity of underground utilities and existing tree/plant dripelines with care and if necessary, by hand. The Contractor bears full responsibility for this work and disruption or damage to utilities and existing trees/plants shall be repaired or replaced immediately at no expense to the Owner.
- Trees/plants shall bear same relation to finished grade as it bore to existing in place of growth. However, at no point shall it be less than 1 inch above adjacent finish grade.
- Trees shall be planted a minimum of 10 feet from face of building and a minimum of 4 feet from edge of pavement, except as approved by Landscape Architect.
- Shrubs shall be planted a minimum of 3 feet from face of building and a minimum of 12 inches from edge of pavement, except as approved by Landscape Architect.
- All other plants (perennials, grasses, groundcover, annuals) shall be planted a minimum of 12 inches from face of building and a minimum of 6 inches from edge of pavement, except as approved by Landscape Architect.
- Provide matching forms and sizes for plant materials within each species and size designated on the drawings.
- Prune newly planted trees only as directed by Landscape Architect.
- Provide specified edging as divider between planting beds and lawn areas.

SITE SOILS NOTES

- Contractor shall coordinate with Owner's Representative for location of stockpile areas for stripped topsoil and planting soil products. Contractor shall ensure area is protected and contamination or disturbance of stored products is not allowed.
- Contractor shall ensure subgrade is scarified prior to installing planting soil and blend with initial lift or placement of proposed planting soil.
- Coordinate placement of planting soil with other work, especially utilities. Placement should occur after installation of all hardscape improvements, irrigation system, utilities, etc. and before installation of plants.

TABLE OF ABBREVIATIONS

ABB	QTY	BOTANICAL NAME	COMMON NAME	SPACING	SIZE	NOTES
DECIDUOUS TREES						
PT-3	12	<i>Populus tremuloides</i>	Aspen	As Shown	3.0' cal.	Full Specimens, Multi-stemmed
PT-4	6	<i>Populus tremuloides</i>	Aspen	As Shown	4.0' cal.	Full Specimens, Multi-stemmed
PT-6	7	<i>Populus tremuloides</i>	Aspen	As Shown	6.0' cal.	Full Specimens, Multi-stemmed
DECIDUOUS & EVERGREEN SHRUBS						
CS-5	74	<i>Cornus sericea</i>	Red Twig Dogwood	As Shown	5 gal.	Full Specimens, Multi-stemmed
GROUNDCOVERS/ PERENNIALS/ ORNAMENTAL GRASSES						
AU-6	3,850 sf	<i>Arctostaphylos uva-ursi</i>	Bearberry	24" OC	1 gal.	Full Specimens, Multi-stemmed

AFF	ABOVE FINISHED FLOOR	MEMB	MEMBRANE
APPROX	APPROXIMATE	MH	MANHOLE
ARCH	ARCHITECT	MIN	MINIMUM
AVG	AVERAGE	MISC	MISCELLANEOUS
B&B	BALLED AND BURLAPPED	MTD	MOUNTED
BC	BOTTOM OF CURB	MTL	METAL
BF	BOTTOM OF FOOTING	N	NORTH
BLDG	BUILDING	NC	NOT IN CONTRACT
BM	BENCHMARK	NO	NUMBER
BQC	BACK OF CURB	NOM	NOMINAL
BR	BOTTOM OF RAMP	NTS	NOT TO SCALE
BRG	BEARING	OC	ON CENTER
BS	BOTTOM OF STEP	OD	OUTSIDE DIAMETER
BW	BOTTOM OF WALL	OPP	OPPOSITE
CAL	CALIPER	PAR	PARALLEL
CAP	CAPACITY	PC	POINT OF CURVATURE
CF	CUBIC FEET	PE	POLYURETHANE
CHAM	CHAMFER	PERF	PERFORATED
CIP	CAST IN PLACE	PED	PEDESTRIAN
CJ	CONTROL JOINT	PI	POINT OF INTERSECTION
CL	CENTER LINE	PL	PROPERTY LINE
CLR	CLEARANCE	PT	POINT, POINT OF TANGENCY
CM	CENTIMETER	PVC	POLYVINYL CHLORIDE
CO	CLEAN OUT	PVMT	PAVEMENT
COMP	COMPACTED	PVR	PAVER
CONC	CONCRETE	QTY	QUANTITY
CONST	CONSTRUCTION	R	RADIUS
CONTR	CONTRACTOR	RECEP	RECEPTACLE
CU	CUBIC	REF	REFERENCE
EST	ESTIMATE	REINF	REINFORCE(D)
DBL	DOUBLE	REM	REMOVE
DEG	DIRECTION OF FLOW	REQD	REQUIRED
DEMO	DEGREE	REV	REVISION, REVISED
	DEMOLISH, DEMOLITION	ROW	RIGHT OF WAY
		RT	RIGHT
		S	SOUTH
		SAN	SANITARY
		SCH	SCHEDULE
		SD	STORM DRAIN
		SEC	SECTION
		SF	SQUARE FOOT (FEET)
		SHT	SHEET
		SI	STORM INLET
		SIM	SIMILAR
		SNT	SEALANT
		SPECS	SPECIFICATIONS
		SQ	SQUARE
		ST	STORM SEWER
		SY	SQUARE YARD
		STA	STATION
		STD	STANDARD
		STL	STEEL
		STR	STRUCTURAL
		SYM	SYMMETRICAL
		T&B	TOP AND BOTTOM
		TBC	TOP OF BACK CURB
		TC	TOP OF CURB
		TF	TOP OF FOOTING
		THK	THICK
		TOC	TOP OF CONCRETE
		TOPO	TOPOGRAPHY
		TS	TOP OF SLAB
		TRAS	TRANSFORMER
		TR	TOP OF RAMP
		TS	TOP OF STEP
		TW	TOP OF WALL
		TYP	TYPICAL
		VAR	VARIES
		VERT	VERTICAL
		VEH	VEHICLE
		VOL	VOLUME
		W	WITH
		W/O	WITHOUT
		WT	WEIGHT
		WL	WEIR LEVEL
		WWF	WELDED WIRE FABRIC
		YD	YARD
		@	AT

LINE TYPE LEGEND

PROPOSED		EXISTING
	Property Line	
	Easement Line	
	Setback Line	
	Limit of Work	
	Erosion Control Fence	
	Curb and Gutter	
	Sleeves	
	Building Wall	
	Roof Overhang	
	Edge of Below Grade Structure	
	Major Contour	
	Minor Contour	
	Buried Electric Line	
	Overhead Power Line	
	Cable TV Line	
	Fiber Optic Line	
	Gas Line	
	Sanitary Sewer Line	
	Storm Drain Line	
	Water Line	
	Edge of Pavement	

SYMBOL LEGEND

	Pedestrian light (F1)		Existing evergreen
	Double-headed pedestrian light (F2)		Existing tree
	Double-headed pedestrian light with mast mounted flood lights (F7)		Existing shrub
	Tree mounted light strings (F8)		Proposed shrub
	Bench		Proposed tree
	Trash receptacle		
	Signage		

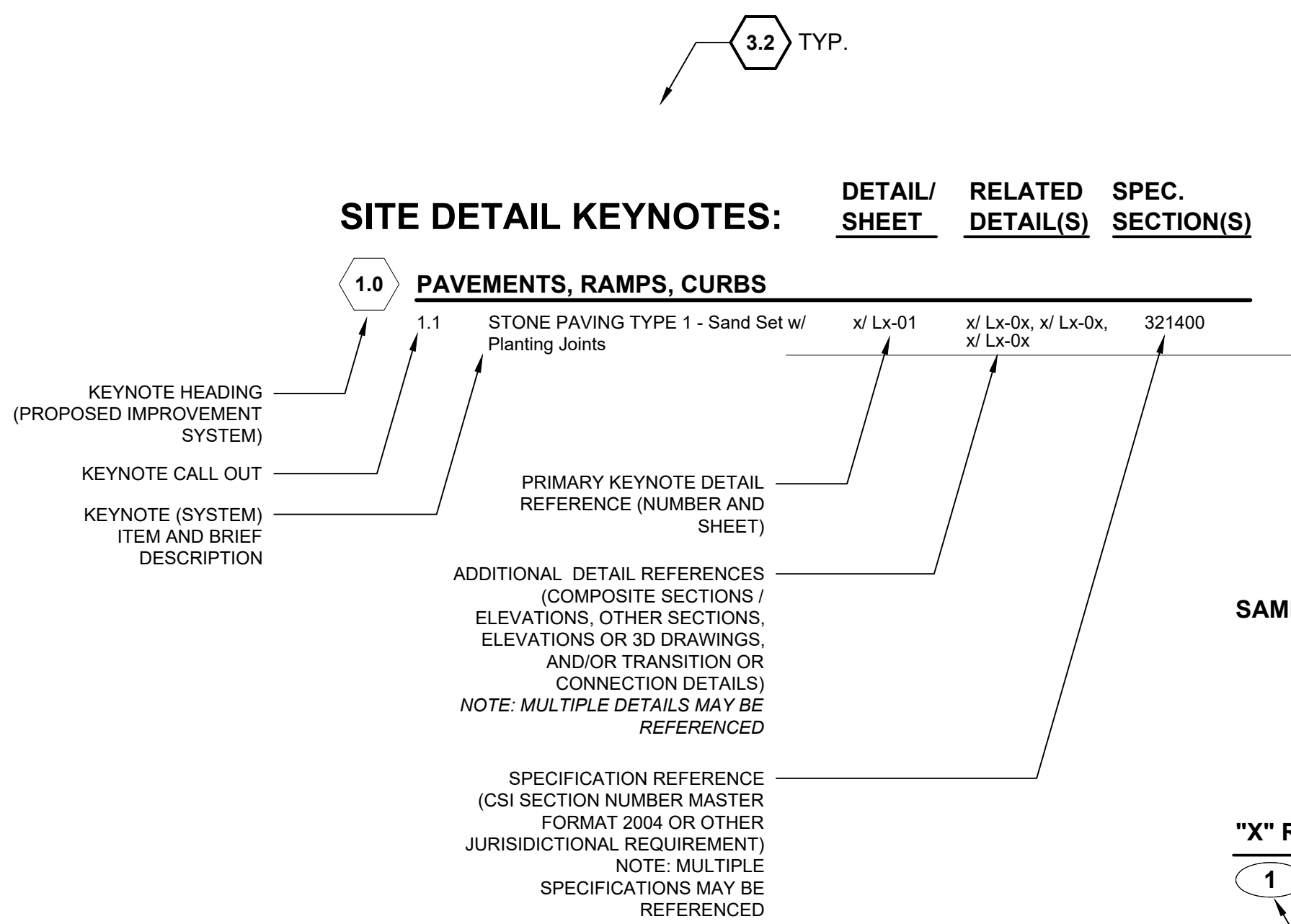
MATERIALS LEGEND

	ICE RINK CONCRETE SLAB		UNIT PAVING TYPE 2		PLANTING AREA
	UNIT PAVING TYPE 1		UNIT PAVING TYPE 3		CONCRETE STEPS

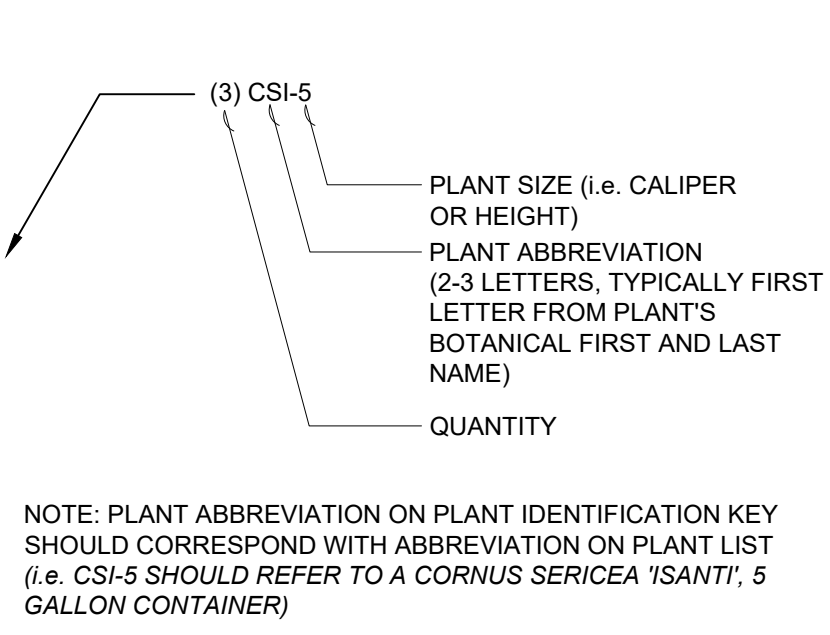
PLANT LIST

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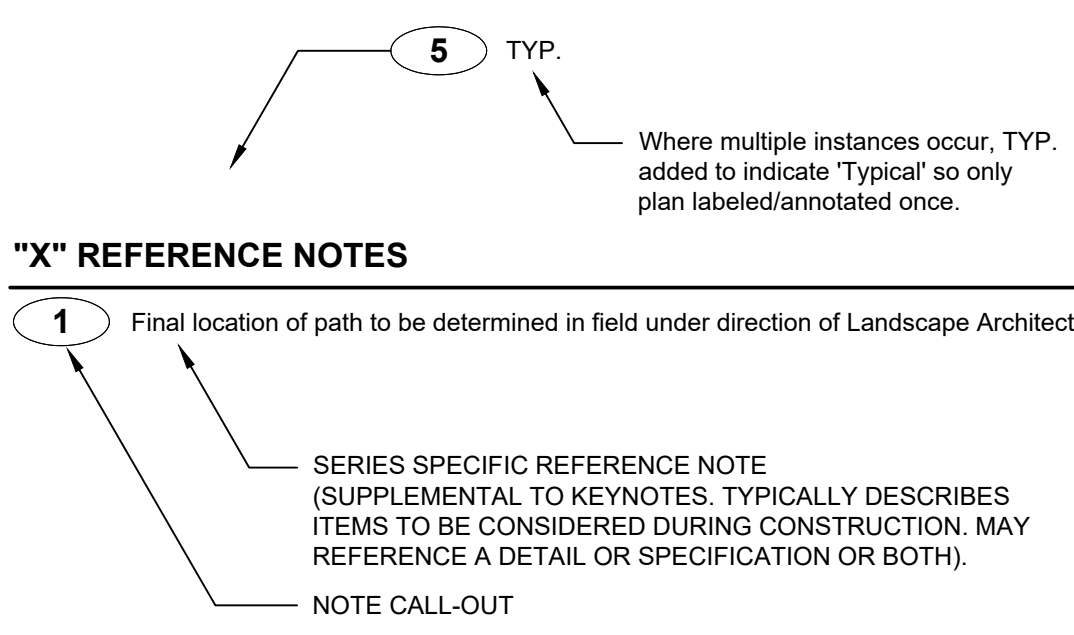
SAMPLE KEYNOTE DRAWING CALLOUT:



PLANT IDENTIFICATION KEY



SAMPLE REFERENCE NOTE DRAWING CALLOUT:



LIGHT FIXTURE SCHEDULE

- Fixture catalog numbers do not necessarily denote specific mounting accessories. Electrical Contractor shall be responsible for acquiring all accessories to successfully complete the installation.
- All directives are to the Contractor unless a responsible party is otherwise indicated.
- Confirm that all fixtures are compatible with the construction into which they are installed prior to placing fixture order.
- Provide lighting fixtures complete with all necessary components, as required for each type of mounting. Fixture catalog numbers do not necessarily denote specific mounting accessories. Acquire all necessary accessories to successfully complete installation in a code compliant manner and according to manufacturer's instructions.
- See Electrical Engineering drawings for all voltage and emergency backup requirements.
- Verify all finishes with Landscape Architect, prior to placing fixture order.
- Electrical Engineer is designing and specifying the project's controls system. Contractor to review power supplies for each fixture with the Electrical Engineer and only order dimming drivers and other power supply equipment compatible with the specified control system.

TYPE	LAMP	DESCRIPTION	MOUNTING	MANUFACTURER	CATALOG NUMBER	COMMENTS
F1	5903 LUMENS, 55W, 2700K, 90+ CRI	TYPE IV MEDIUM BEAM DISTRIBUTION. PROVIDE ROUND 16" STRAIGHT POLE WITH POLE BRACKET FOR SINGLE FIXTURE AND ALL MOUNTINGS, ACCESSORIES AS REQUIRED. MARINE GRADE, DI-CAST ALUMINUM ALLOY, SS HARDWARE, PREMIUM GRADE CORROSION RESISTANT FINISH AND WET LOCATION RATING. POLE TO BE EQUIPPED WITH RECESSED, COVERED, WET RATED GFCI RECEPTACLE MOUNTED AT 24", OR NEAREST STANDARD HEIGHT OFFERED BY MANUFACTURER.	16" POLE MOUNT	WE-EF	FIXTURE: ASP534 LED 655-3526 B RACKET: 655-9370 POLE: 693-1230	POLE MOUNTED FIXTURE, SINGLE HEAD ORIENTED PER PLAN.
F2	(2) 5903 LUMENS, (2) 55W, 2700K, 90+ CRI	SIMILAR TO F1 EXCEPT DOUBLE POLE MOUNTED FIXTURES 180 DEGREES BACK TO BACK. POLE TO BE EQUIPPED WITH RECESSED, COVERED, WET RATED GFCI RECEPTACLE, MOUNTED AT 24", OR AT NEAREST STANDARD HEIGHT OFFERED BY MANUFACTURER.	16" POLE MOUNT	WE-EF	FIXTURE: (2) ASP534 LED 655-3526; BRACKET: 655-9371; POLE: 693-1230	POLE MOUNTED FIXTURE, DOUBLE-HEAD ORIENTED PER PLAN.
F3	THIS FIXTURE TYPE IS NOT USED ON THE PROMENADE.					
F4	THIS FIXTURE TYPE IS NOT USED ON THE PROMENADE.					
F5	THIS FIXTURE TYPE IS NOT USED ON THE PROMENADE.					
F6	THIS FIXTURE TYPE IS NOT USED ON THE PROMENADE.					
F7	A (2) 5903 LUMENS, (2) 55W, 2700K, 90+ CRI	(2) FIXTURES SIMILAR TO F1 EXCEPT DOUBLE BRACKET WITH FIXTURES 180 DEGREES BACK TO BACK.	25' POLE MOUNT	WE-EF	FIXTURE: (2) ASP534 LED 655-3526 B RACKET: 655-9371	LOCATED AT ICE SKATING RINK. RECEPTACLE FOR FUTURE POST-TOP MOUNTED PROJECTOR FIXTURE HAS NOT BEEN INCLUDED IN FIXTURE CUT. CONFIRM OWNER REQUIRES THIS OPTION PRIOR TO ORDERING.
	B (2) 6907 LUMENS, 56W, 2700K, RGBW LED	(2) ADJUSTABLE FIXTURES MOUNTED TO POLE WITH NARROW BEAM DISTRIBUTION (APPROXIMATELY 20 DEGREES), EQUIPPED WITH SNOOT AND HONEYCOMB LOUVER, CONTROLLED BY DMX.			(2) FLC230 LED COLOR CHANGER 139-1913 / BLACK / NARROW / 667-9222 SNOOT / 667-8119 HONEYCOMB LOUVER.	SEE FIXTURE CUT FOR ADDITIONAL MOUNTING INFORMATION. FIXTURES SHALL BE AIMED DOWN AT ICE RINK. FINALIZED AIMING IN FIELD.
	C (2) 6907 LUMENS, 56W, 2700K, RGBW LED	(2) ADJUSTABLE FIXTURES SIMILAR TO ABOVE, HOWEVER EQUIPPED WITH MEDIUM BEAM SPREAD (APPROXIMATELY 45 DEGREES) AND GLARE SHIELD. CONTROLLED VIA DMX.			(2) FLC230 LED COLOR CHANGER 139-1913 / BLAC K/ MEDIUM / 667-9221 GL ARE SHIELD	SEE FIXTURE CUT FOR ADDITIONAL MOUNTING INFORMATION. FIXTURES SHALL BE AIMED DOWN AT ICE RINK. FINALIZED AIMING IN FIELD.
F8	.2 WATT/2400K/LED LAMPS 9" ON CENTER	TREE ATTACHED LIGHT STRINGS WITH LED LAMP MODULES 9" ON CENTER. PERMANENTLY MOUNTED TO EXTERIOR COMMERCIAL GRADE GRAY WIRE. LAMPS TO BE DIMMABLE, REPLACEABLE, AND EQUIPPED WITH WATER-TIGHT SILICON CAPS. LENGTH OF LIGHT STRING TO BE 130' PER TREE. PROVIDE ALL ACCESSORIES REQUIRED TO MOUNT LIGHT STRINGS SECURELY TO TREE AND TO CONNECT TO DIMMING SYSTEM.	TREE MOUNTED	TOKISTAR	LIGHTSTRING -- FLWG-210-WW-HB-WP	CONTRACTOR TO CONFIRM LENGTHS OF LIGHT STRINGS TO BE USED WITH LIGHTING DESIGNER UPON FINAL SELECTION OF TREE SIZES TO BE INSTALLED. CONTRACTOR TO CONFIRM COMPATIBILITY WITH PROJECT CONTROL SYSTEMS PRIOR TO ORDERING. SEE MOUNTING DETAILS IN LANDSCAPE DRAWINGS.
		HUB CONNECTORS (OR SIMILAR) FOR GANGING MULTIPLE LIGHT STRINGS IN TREE INTO A SINGLE FEED LINE TO REMOTE J-BOX.			HC-10 HUB CONNECTOR	SEE DETAIL 7.1 FOR INSTALLATION AND CAMOFLAGING REQUIREMENTS.
		LED DRIVER 80 WATT/8 VOLT DC, WITH WATERTIGHT DIRECT BURIAL BOX THAT MATCHES MANUFACTURER'S REQUIREMENTS.			LDR 80-80	CONTRACTOR TO MATCH THE NUMBER OF DRIVERS NEEDED TO THE LENGTH AND WATTAGE OF LIGHT STRING USED, ON A TREE BY TREE BASIS.
F9	THIS FIXTURE TYPE IS NOT USED ON THE PROMENADE.					
F10	THIS FIXTURE TYPE IS NOT USED ON THE PROMENADE.					

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1225 17th Street
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United States
Tel 303.595.8586
Fax 303.625.6823

LANDMARK
CONSULTANTS, INC.

141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

DESIGNWORKSHOP
1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186

MARTIN/MARTIN
CONSULTING ENGINEERS

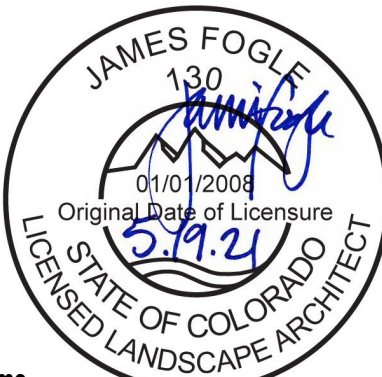
14143 Denver West Pkwy
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me
engineers

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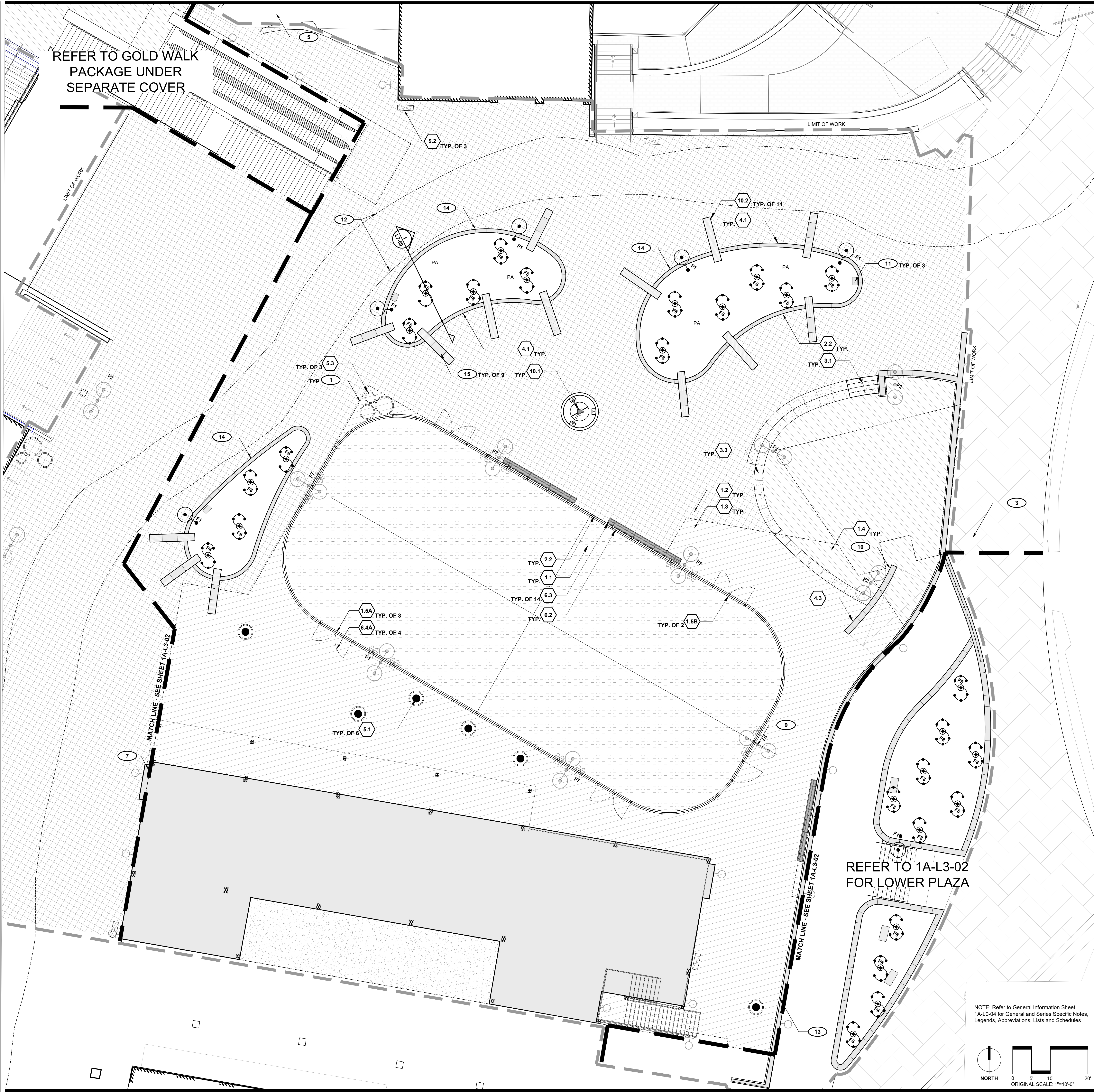
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GENERAL INFORMATION SHEET

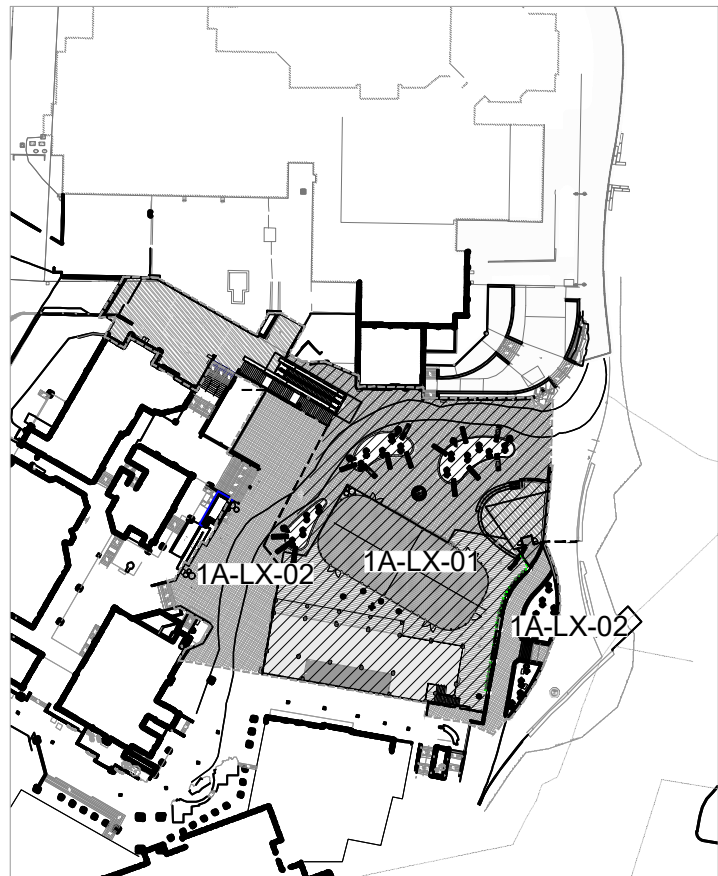
1A-L0-04



	DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS		
1.1	Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01	Ref Division 13
1.2	Unit Paving Type 1: At Grade	4 / 1A-L7-01	7,9/1A-L7-01 321400
1.3	Unit Paving Type 2: Over Structure	5 / 1A-L7-01	7,9/1A-L7-01 321400
1.4	Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01	7,9/1A-L7-01 321400
1.5A	Threshold at Ice Rink: Over Structure	2 / 1A-L7-01	321400
1.5B	Threshold at Ice Rink: At Grade	3 / 1A-L7-01	321400
2.0	JOINTING		
2.1	Expansion Joint	8 / 1A-L7-01	321373
2.2	Sand Joint	10 / 1A-L7-01	321400
3.0	STEPS		
3.1	Stairs Type 1: at Elevated Plaza	1 / 1A-L7-02	033000
3.2	Stairs Type 2: At Promenade Building	2 / 1A-L7-02	033000
3.3	Seating Steps at Elevated Plaza	3 / 1A-L7-02	033000
4.0	SITE WALLS/ EMBANKMENTS		
4.1	Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03	033000
4.2	Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03 2/1A-L7-08	033000 Ref Arch: Exterior Stone ST1
4.3	Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04	033000 Ref Arch: Exterior Stone ST1
5.0	SITE FURNITURE		
Refer to Site Furnishings Series			
5.1	Fire Bowl		103000
5.2	Trash Receptacle		By Owner
5.3	Planter Pots		323300
6.0	RAILINGS, BARRIERS, FENCING		
6.1	Railing Type 1: At Stairs	2 / 1A-L7-04	055213
6.2	Railing Type 2: At Ice Rink	1 / 1A-L7-05	323119
6.3	Railing Type 3: Drink Ledge	2 / 1A-L7-05	323119
6.4A	Ice Rink Gate: Double	3 / 1A-L7-05	323119
6.4B	Ice Rink Gate: Single	4 / 1A-L7-05	323119
7.0	SITE LIGHTING		
Refer to Site Lighting Series			
7.1	Tree Mounted Lighting (Type F8)	Ref Electric	1/1A-L7-10 Ref Electric
7.2	Light Pole Fountain Under Pavers	Ref Electric	2/1A-L7-10 Ref Electric
8.0	DRAINAGE		
Refer to Civil Drawings			
9.0	PLANTING AND LANDSCAPE		
Refer to Tree Planting and Shrub and Groundcover Series Drawings			
10.0	MISCELLANEOUS ELEMENTS		
10.1	Fire Pit	1 / 1A-L7-06	2/1A-L7-06 103000
10.2	Bench: Type 1	1 / 1A-L7-07	055000/ 061063

- SITE MATERIAL REFERENCE NOTES**
- PA Planting area
- 1 Underground building foundation.
 - 2 Existing wall to remain. Do not disturb.
 - 3 Existing paving to remain. Do not disturb.
 - 4 Existing stairs to remain. Do not disturb.
 - 5 Existing Landscape to remain. Do not disturb.
 - 6 Refer to CIVIL for drainage structure information.
 - 7 Refer to ARCHITECTURE for building information.
 - 8 Refer to ELECTRICAL for electrical information.
 - 9 Refer to L6 Lighting Series for lighting information.
 - 10 GFCI hookups to be confirmed in field by Landscape Architect.
 - 11 Provide Water and Electrical for temporary connection to food and beverage carts.
 - 12 Refer to CIVIL for fire lane.
 - 13 Refer to ARCHITECTURE for railing integrated into building.
 - 14 Top of planter to be level. Refer to CIVIL for highest FG at base of planter and reference Wall Type 1: Concrete Planter Wall 1 / 7-03.
 - 15 Refer to MECHANICAL for snowmelt manifold information

KEY PLAN



NOTE: Refer to General Information Sheet, 1A-L6-04 for General and Series Specific Notes, Legends, Abbreviations, Lists and Schedules



ALTERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186



12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100



14143 Denver West Pkwy
Suite 300
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United States
Tel 303.421.6655

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

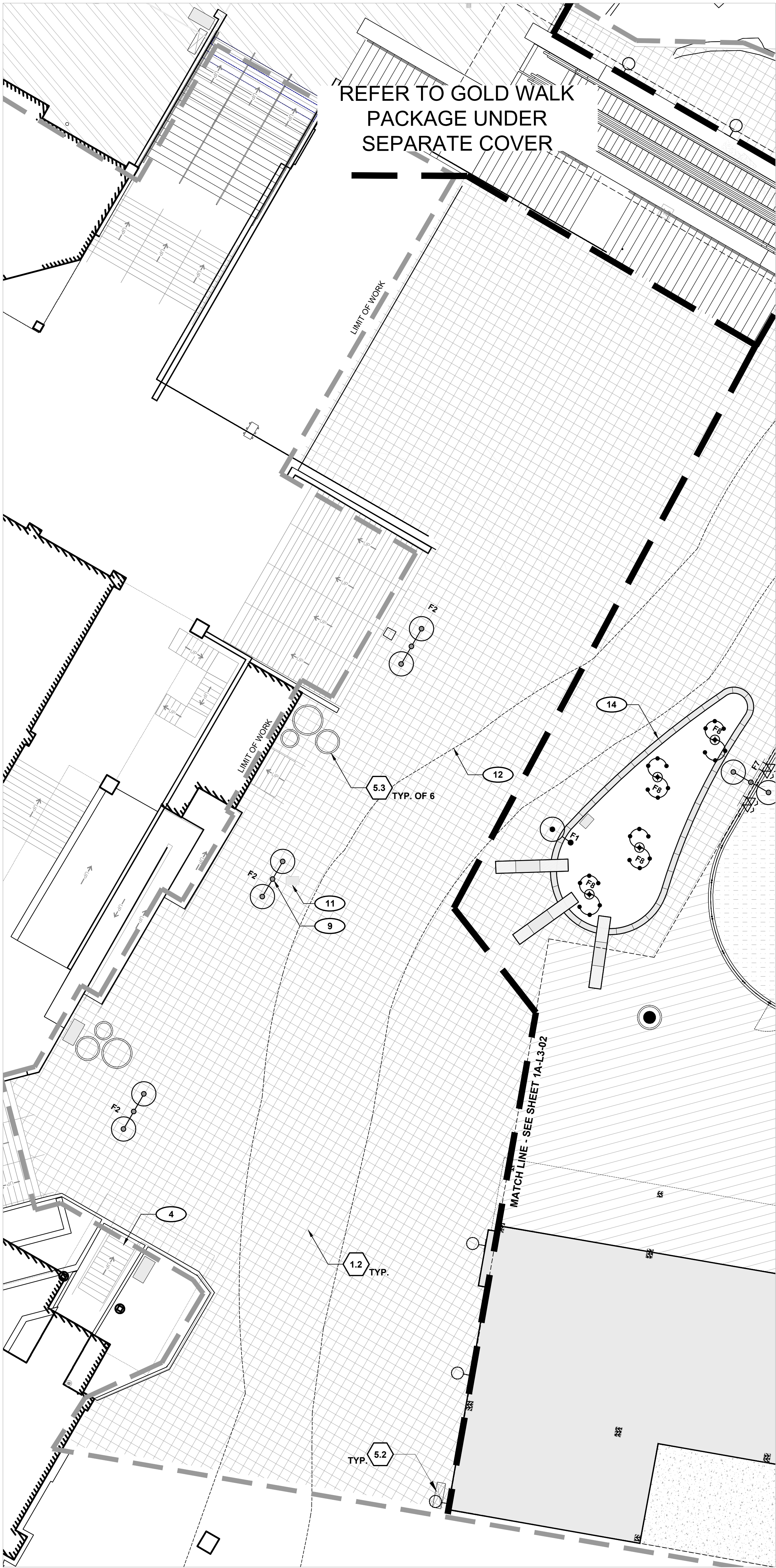
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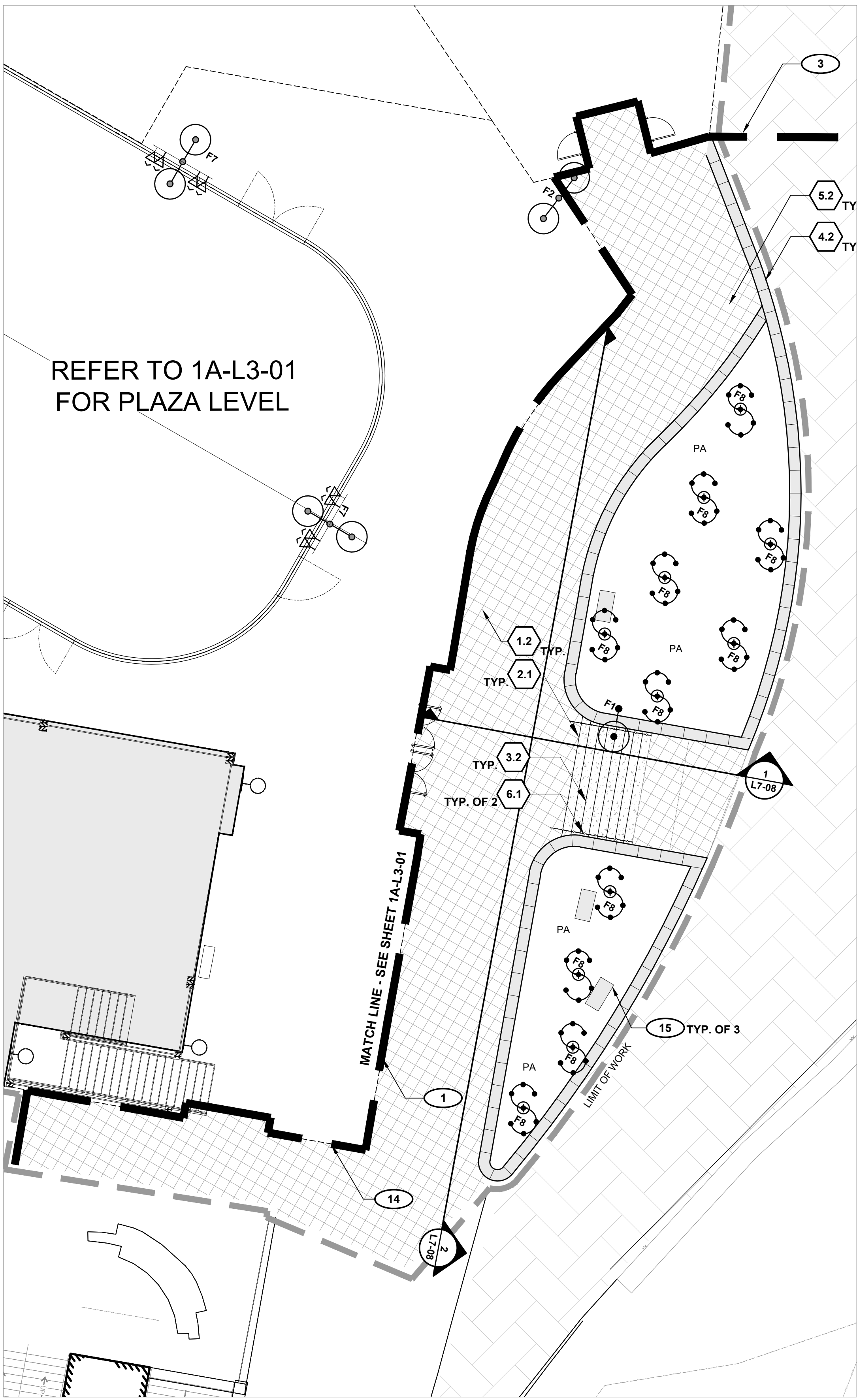
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Project Number	DW Project Number
003.7835.000	6466
Description	
BP3: PROMENADE - ISSUE FOR BID AND PERMIT	

SITE MATERIALS PLAN

1A-L3-01

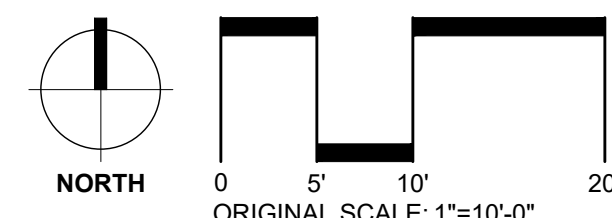


1 MATERIALS PLAN: SLOPESIDE PLAZA WEST
1"=10'-0"



2 MATERIALS PLAN: SLOPESIDE PLAZA LOWER
1"=10'-0"

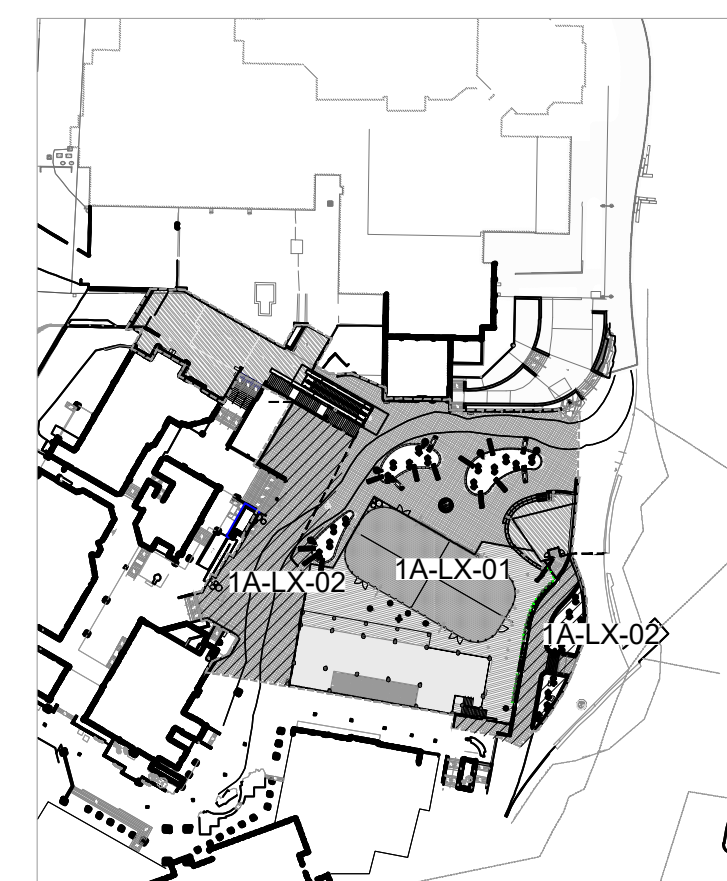
NOTE: Refer to General Information Sheet
1A-L0-04 for General and Series Specific Notes,
Legends, Abbreviations, Lists and Schedules



SITE KEYNOTES:		DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS			
1.1	Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01		Ref Division 13
1.2	Unit Paving Type 1: At Grade	4 / 1A-L7-01	7,9/1A-L7-01	321400
1.3	Unit Paving Type 2: Over Structure	5 / 1A-L7-01	7,9/1A-L7-01	321400
1.4	Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01	7,9/1A-L7-01	321400
1.5A	Threshold at Ice Rink: Over Structure	2 / 1A-L7-01		321400
1.5B	Threshold at Ice Rink: At Grade	3 / 1A-L7-01		321400
2.0	JOINTING			
2.1	Expansion Joint	8 / 1A-L7-01		321373
2.2	Sand Joint	10 / 1A-L7-01		321400
3.0	STEPS			
3.1	Stairs Type 1: at Elevated Plaza	1 / 1A-L7-02		033000
3.2	Stairs Type 2: At Promenade Building	2 / 1A-L7-02		033000
3.3	Seating Steps at Elevated Plaza	3 / 1A-L7-02		033000
4.0	SITE WALLS/ EMBANKMENTS			
4.1	Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03		033000
4.2	Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03	2/1A-L7-08	033000
4.3	Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04		033000
5.0	SITE FURNITURE			
Refer to Site Furnishings Series				
5.1	Fire Bowl			103000
5.2	Trash Receptacle			By Owner
5.3	Planter Pots			323300
6.0	RAILINGS, BARRIERS, FENCING			
6.1	Railing Type 1: At Stairs	2 / 1A-L7-04		055213
6.2	Railing Type 2: At Ice Rink	1 / 1A-L7-05		323119
6.3	Railing Type 3: Drink Ledge	2 / 1A-L7-05		323119
6.4A	Ice Rink Gate: Double	3 / 1A-L7-05		323119
6.4B	Ice Rink Gate: Single	4 / 1A-L7-05		323119
7.0	SITE LIGHTING			
Refer to Site Lighting Series				
7.1	Tree Mounted Lighting (Type F8)		Ref Electric	1/1A-L7-10
7.2	Light Pole Fountain Under Pavers		Ref Electric	2/1A-L7-10
8.0	DRAINAGE			
Refer to Civil Drawings				
9.0	PLANTING AND LANDSCAPE			
Refer to Tree Planting and Shrub and Groundcover Series Drawings				
10.0	MISCELLANEOUS ELEMENTS			
10.1	Fire Pit	1 / 1A-L7-06	2/1A-L7-06	103000
10.2	Bench: Type 1	1 / 1A-L7-07		055000/ 061063

SITE MATERIAL REFERENCE NOTES	
PA	Planting area
1	Underground building foundation.
2	Existing wall to remain. Do not disturb.
3	Existing paving to remain. Do not disturb.
4	Existing stairs to remain. Do not disturb.
5	Existing Landscape to remain. Do not disturb.
6	Refer to CIVIL for drainage structure information.
7	Refer to ARCHITECTURE for building information.
8	Refer to ELECTRICAL for electrical information.
9	Refer to L6 Lighting Series for lighting information.
10	GFCI hookups to be confirmed in field by Landscape Architect.
11	Provide Water and Electrical for temporary connection to food and beverage carts.
12	Refer to CIVIL for fire lane.
13	Refer to ARCHITECTURE for railing integrated into building.
14	Top of planter to be level. Refer to CIVIL for highest FG at base of planter and reference Wall Type 1: Concrete Planter Wall 1 / 7-03.
15	Refer to MECHANICAL for snowmelt manifold information

KEY PLAN



ALTRERA
MOUNTAIN COMPANY

east west partners

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States

Tel 303.595.8585
Fax 303.625.6823

LANDMARK
CONSTRUCTION, INC.

141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186

me
engineers

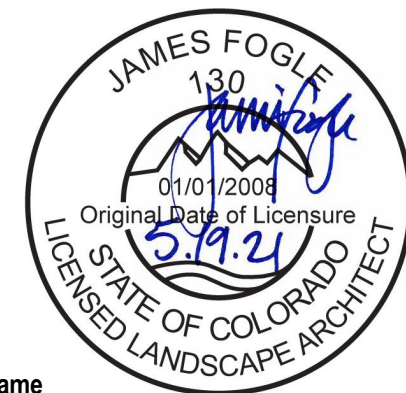
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United States
Tel 303.421.6655

MARTIN/MARTIN
CONSULTING ENGINEERS

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Lakewood, CO 80215
United States
Tel 303.431.6100

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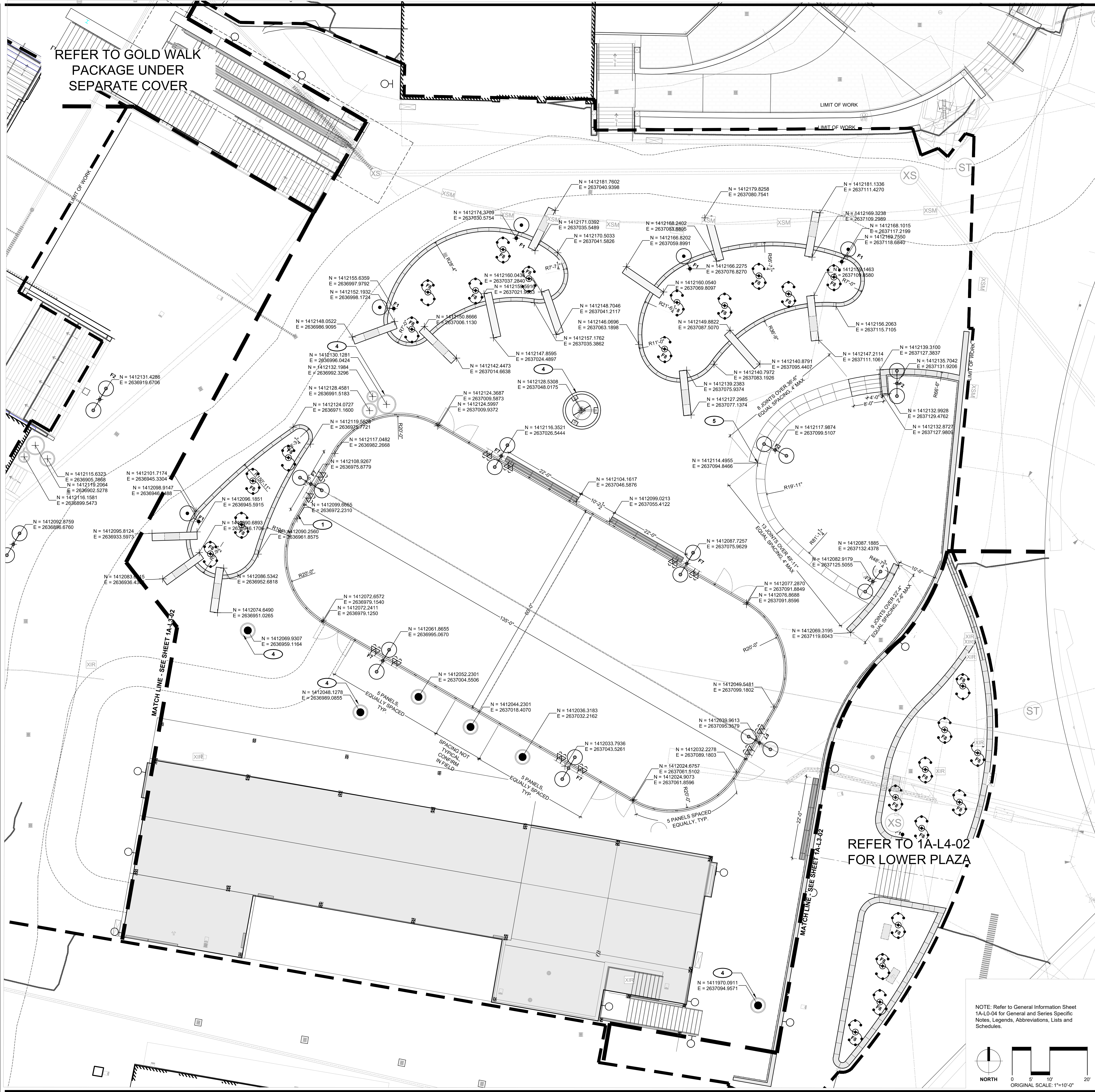
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Project Name	
BP3 PROMENADE PERMIT AND CONSTRUCTION	
Project Number	DW Project Number
003.7835.000	6466
Description	
BP3: PROMENADE - ISSUE FOR BID AND PERMIT	

SITE MATERIALS PLAN

1A-L3-02



SITE LAYOUT REFERENCE NOTES

- 1 Align ice rink with Promenade building gridlines.
- 2 Wall to align with edge of existing promenade pavement.
- 3 Refer to L6 Lighting Series for light pole layout.
- 4 Northings and Eastings marked on center. Refer to L7 Site Details for dimensions
- 5 Joining pattern point of beginning. To be spaced equally.

KEY PLAN



ALTRERA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823



141 9th Street
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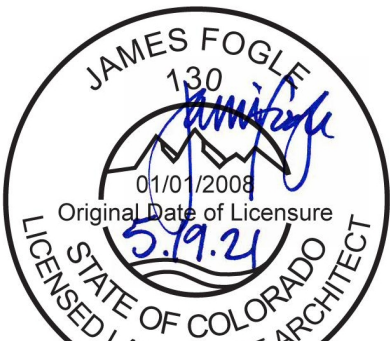
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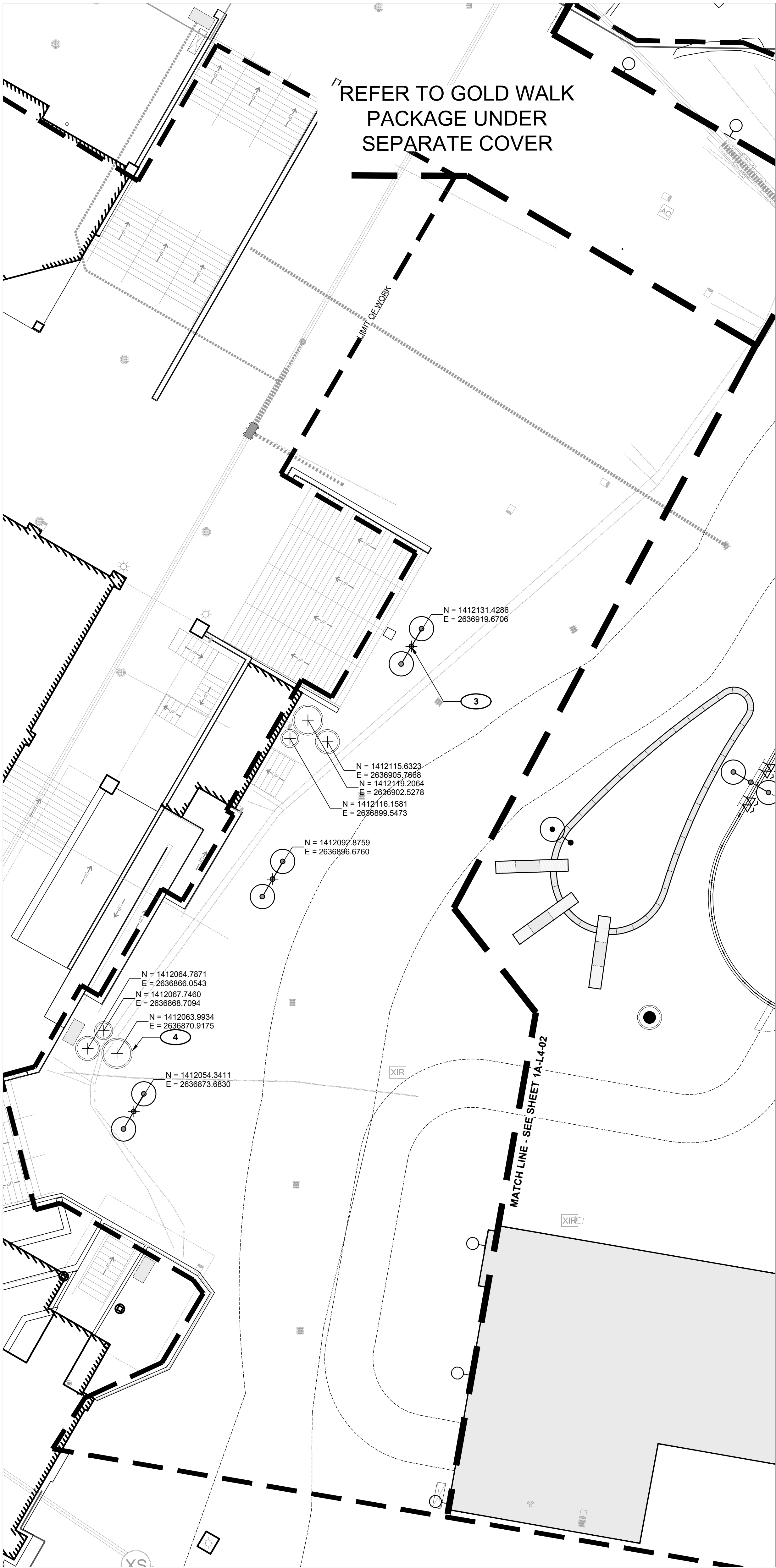
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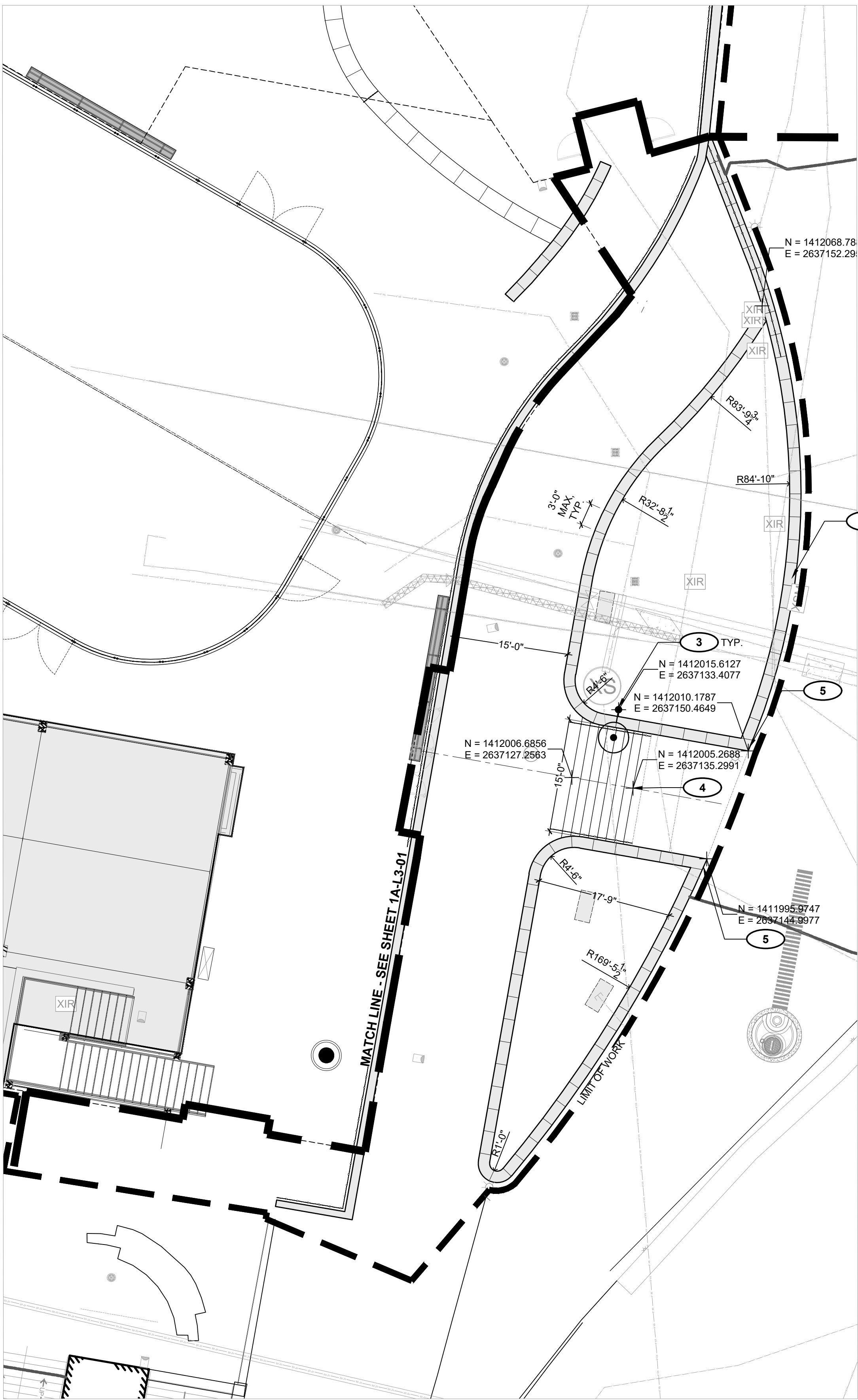
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Project Number	003.7835.000
DW Project Number	6466
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SITE LAYOUT PLAN

1A-L4-01



1 LAYOUT PLAN: SLOPESIDE PLAZA WEST
1"=10'-0"



2 LAYOUT PLAN: SLOPESIDE PLAZA LOWER
1"=10'-0"

NOTE: Refer to General Information Sheet
1A-LG-04 for General and Series Specific
Notes, Legends, Abbreviations, Lists and
Schedules.



SITE LAYOUT REFERENCE NOTES

- 1 Align ice rink with Promenade building gridlines.
- 2 Wall to align with edge of existing promenade pavement.
- 3 Refer to L6 Lighting Series for light pole layout.
- 4 Northings and Eastings marked on center. Refer to L7 Site Details for dimensions
- 5 Joining pattern point of beginning. To be spaced equally.

KEY PLAN



ALTERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186



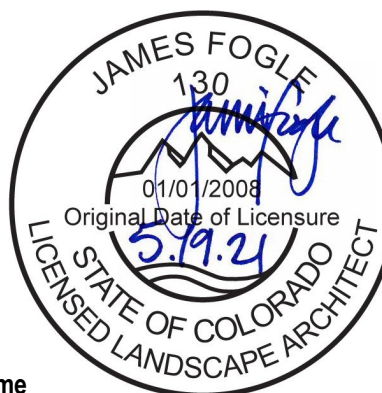
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United States
Tel 303.431.6100



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Golden, CO
United States
Tel 303.421.6655

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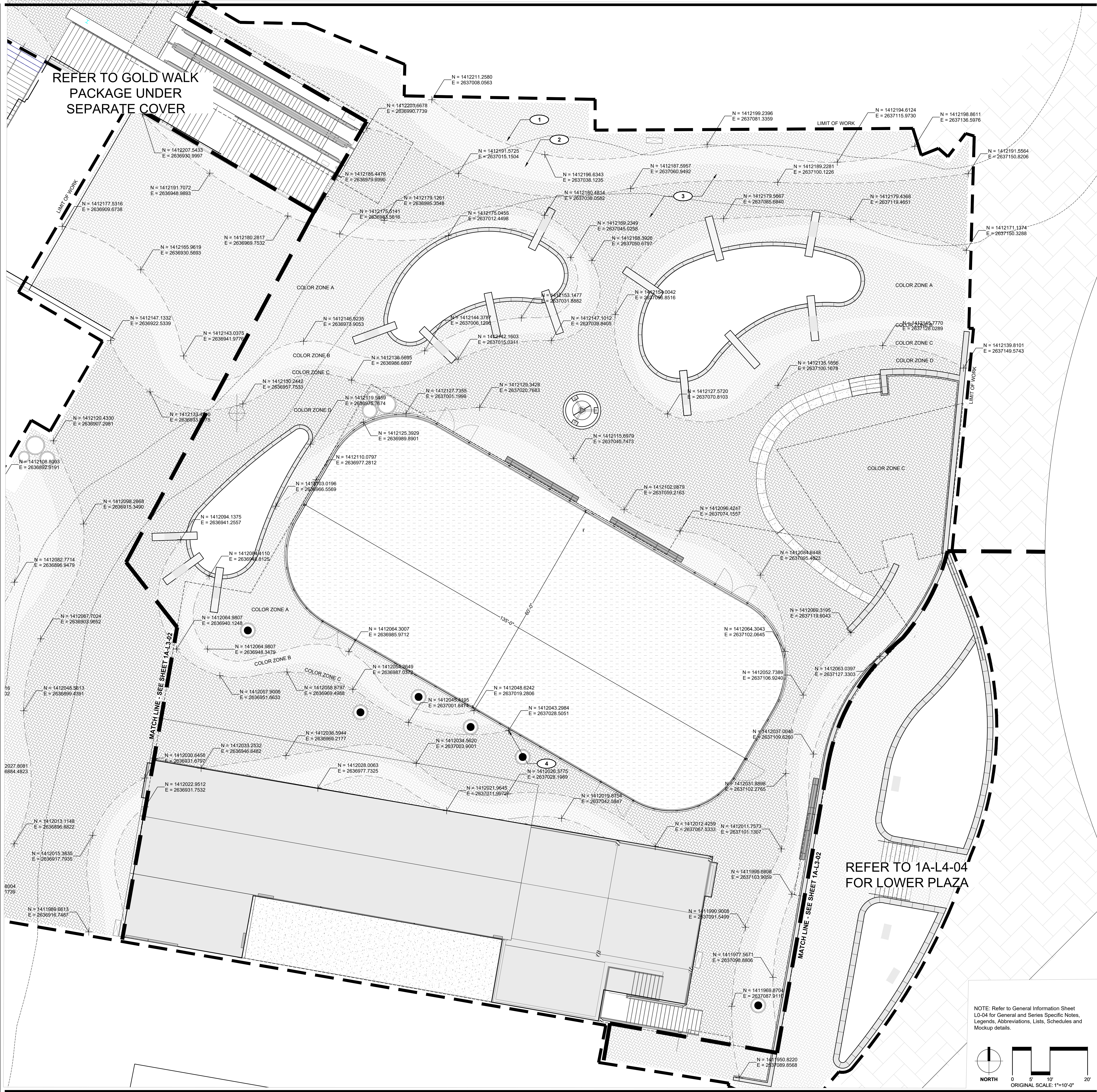
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Project Name	BP3 PROMENADE PERMIT AND CONSTRUCTION
Project Number	003.7835.000
DW Project Number	6466
Description	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

SITE LAYOUT PLAN

1A-L4-02



PAVING LAYOUT REFERENCE NOTES

- 1 Dashed line indicates solid transition between paving color zones.
- 2 Mixed paving transition area.
- 3 Unit pavers are not drawn to scale and are shown for color mix distribution only.



ALTRERA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186



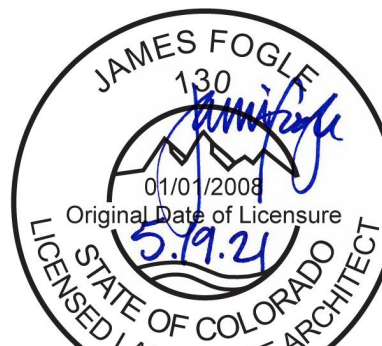
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Project Number
003.7835.000

DW Project Number
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Description
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SITE LAYOUT
PLAN - PAVING
PATTERN

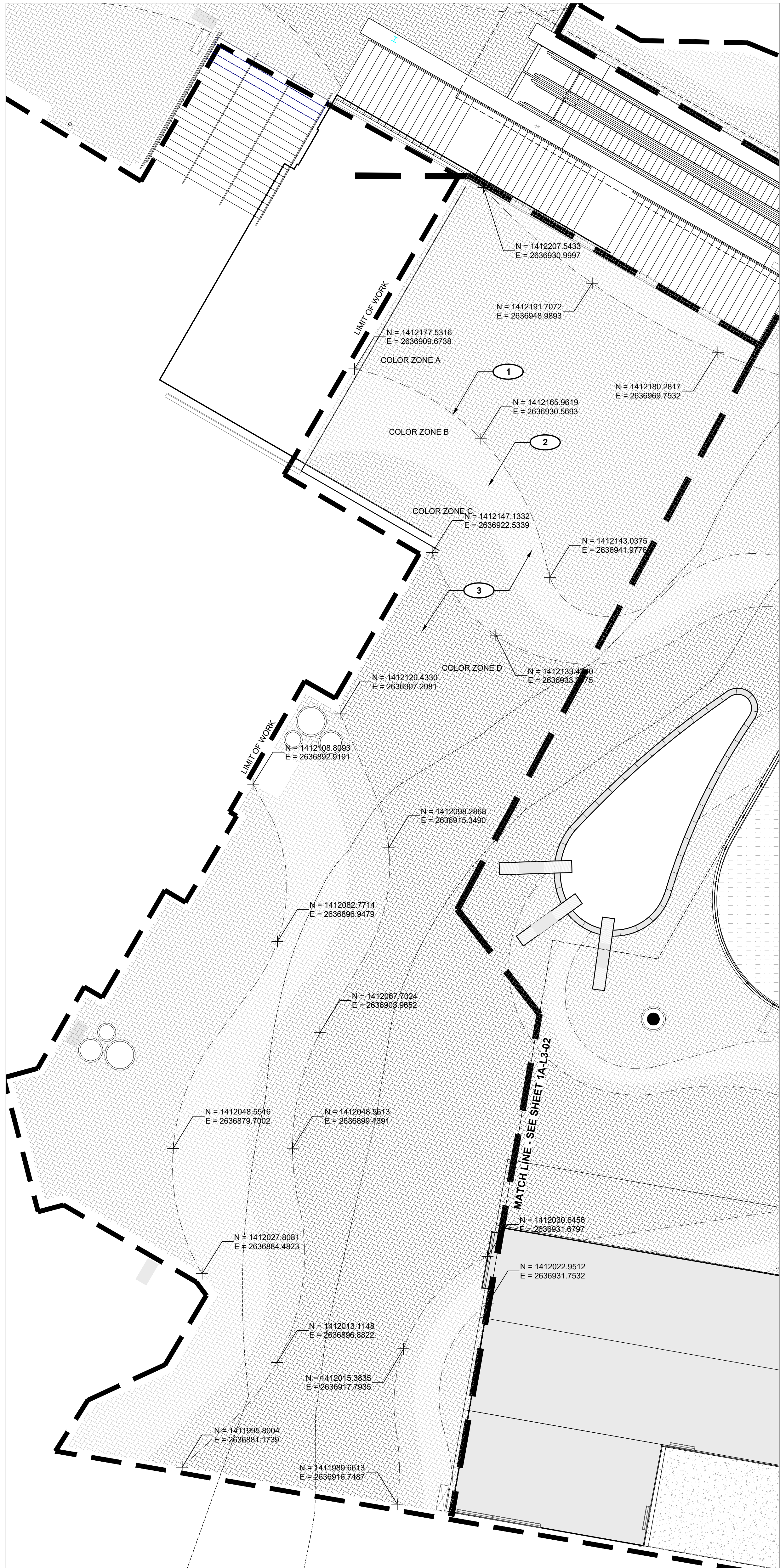
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KEY PLAN

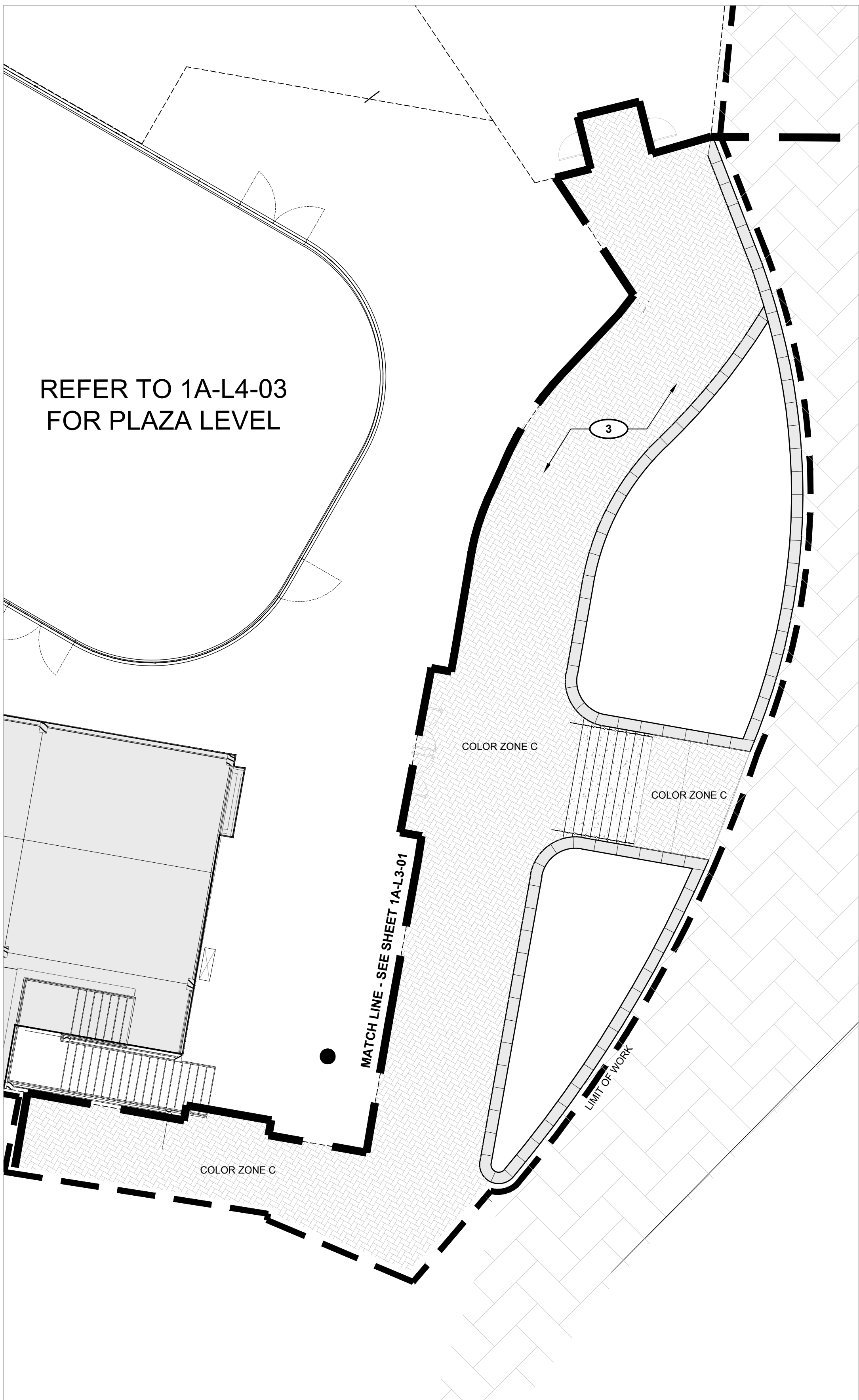


NOTE: Refer to General Information Sheet
L0-04 for General and Series Specific Notes,
Legends, Abbreviations, Lists, Schedules and
Mockup details.





1 LAYOUT PLAN: SLOPESIDE PLAZA WEST
1"=10'-0"



2 LAYOUT PLAN: SLOPESIDE PLAZA LOWER
1"=10'-0"

NOTE: Refer to General Information Sheet
LO-04 for General and Series Specific Notes,
Legends, Abbreviations, Lists, Schedules and
Mockup details.



PAVING LAYOUT REFERENCE NOTES

- 1 Dashed line indicates solid transition between paving color zones.
- 2 Mixed paving transition area.
- 3 Unit pavers are not drawn to scale and are shown for color mix distribution only.

KEY PLAN



ALTERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823



141 9th Street
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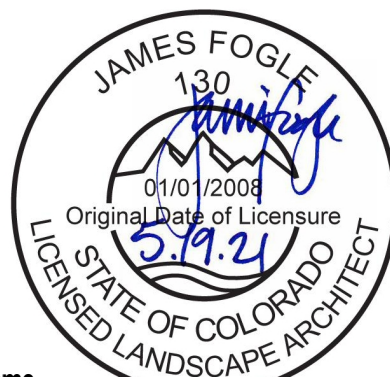


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Lakewood, CO 80215
United States
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Project Name
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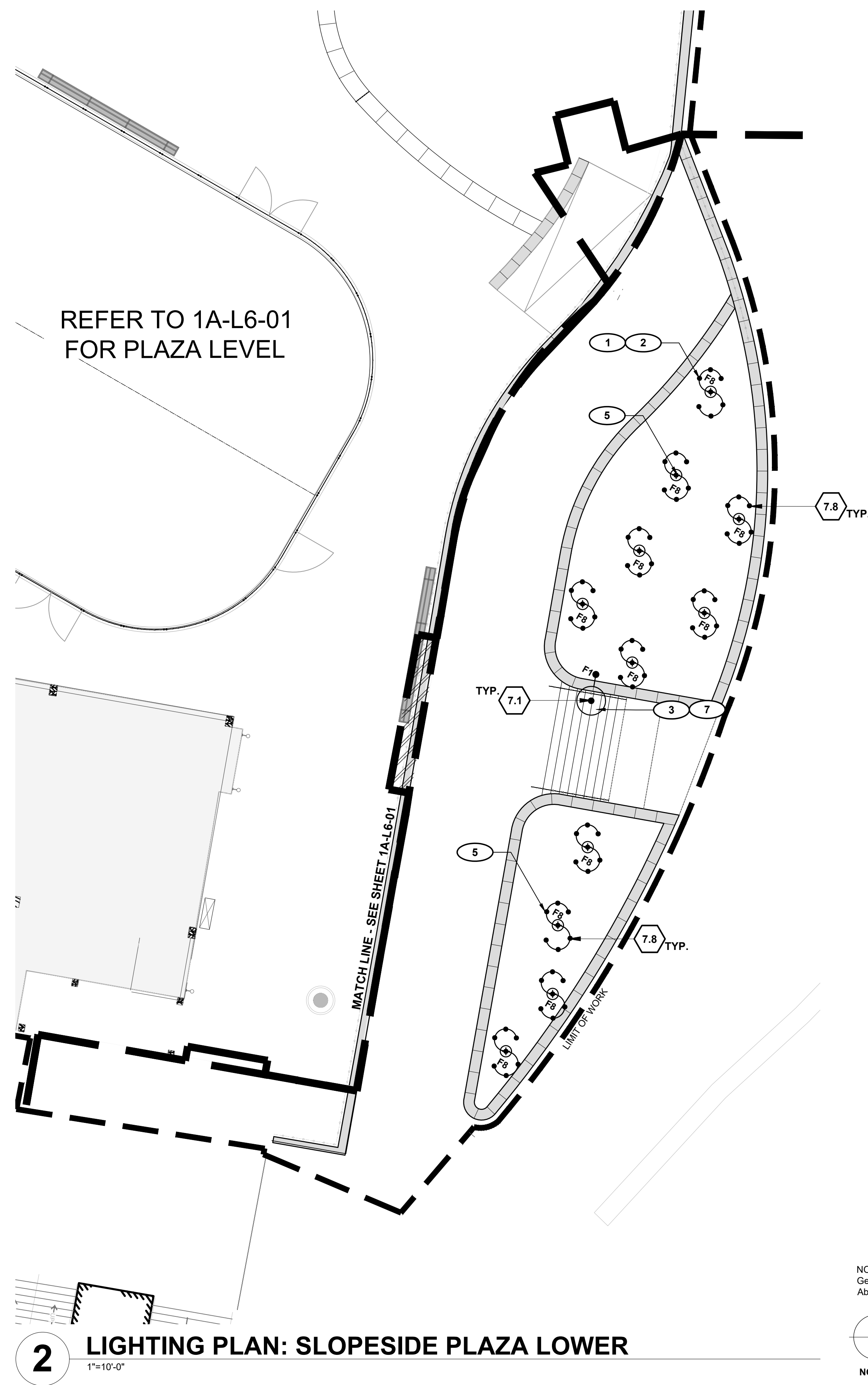
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Description
BP3: PROMENADE - ISSUE FOR BID
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SITE LAYOUT
PLAN - PAVING
PATTERN

1A-L4-04



SITE KEYNOTES:		DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
7.0	Lighting			
7.1	Pedestrian Light (F1)	Ref Electric		Ref Electric
7.2	Double-Headed Pedestrian Light (F2)	Ref Electric	21A/L-7-10	Ref Electric
7.7	Double-Headed Pedestrian Light with Mast Mounted Flood Lights (F7)	Ref Electric	21A/L-7-10	Ref Electric
7.8	Tee Mounted Light Strings (F8)	Ref Electric	11A/L-7-10	Ref Electric

SITE LIGHTING REFERENCE NOTES

- | | |
|---|--|
| 1 | Refer to L0-04: General Information Sheet for symbol list and lighting schedule (TYP). |
| 2 | Reference Electrical Drawings for building mounted fixtures, controls, power distribution, receptacle locations, and emergency lighting (TYP). |
| 3 | Light pole base to be 18" off edge of planter wall. |
| 4 | Orient hand-hole in pole for maximum accessibility (TYP). |
| 5 | Type F0 Fixtures to be serviced by direct burial remote transformers in the planter area. Coordinate exact location with Landscape Architect (TYP). |
| 6 | Pole to be located directly over and attached to existing foundation structure. Contractor to verify location with structural engineer. See mounting details in structural engineering drawings. |
| 7 | For Type F1 Fixtures mounted in planter, scale the pole location from plan and confirm with Landscape Architect prior to final installation. |



2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

225 17th Street
Suite 150
Denver, CO 80202
United States

Tel 303.595.8585
Fax 303.825.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO
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1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186



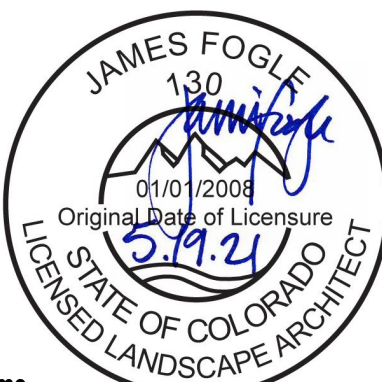
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Project Name

BP3 PROMENADE PERMIT AND CONSTRUCTION

Project Number	DW Project Number
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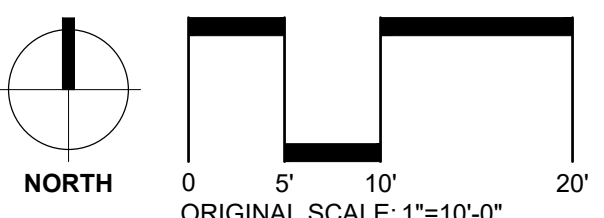
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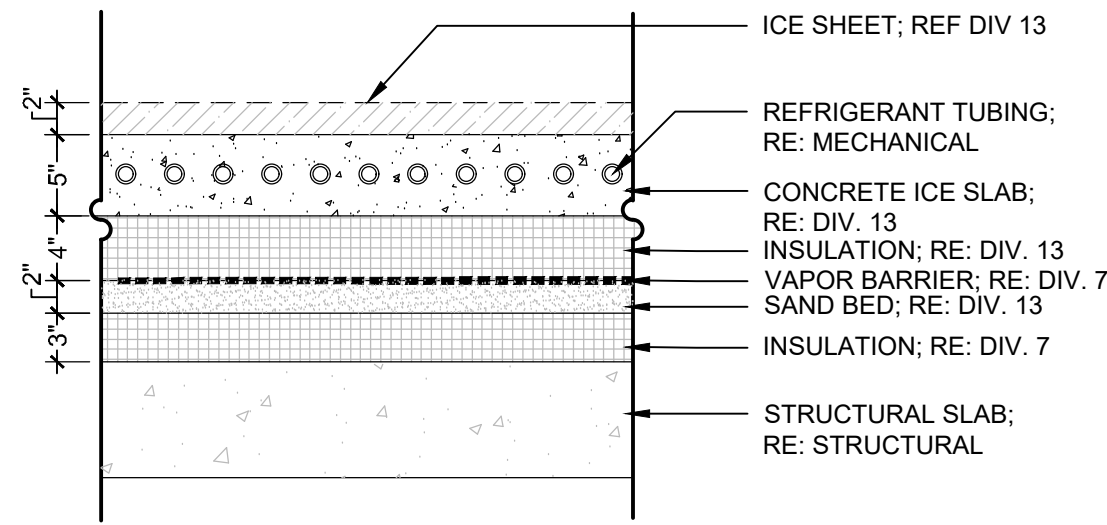
SITE LIGHTING PLAN

1A-L6-02

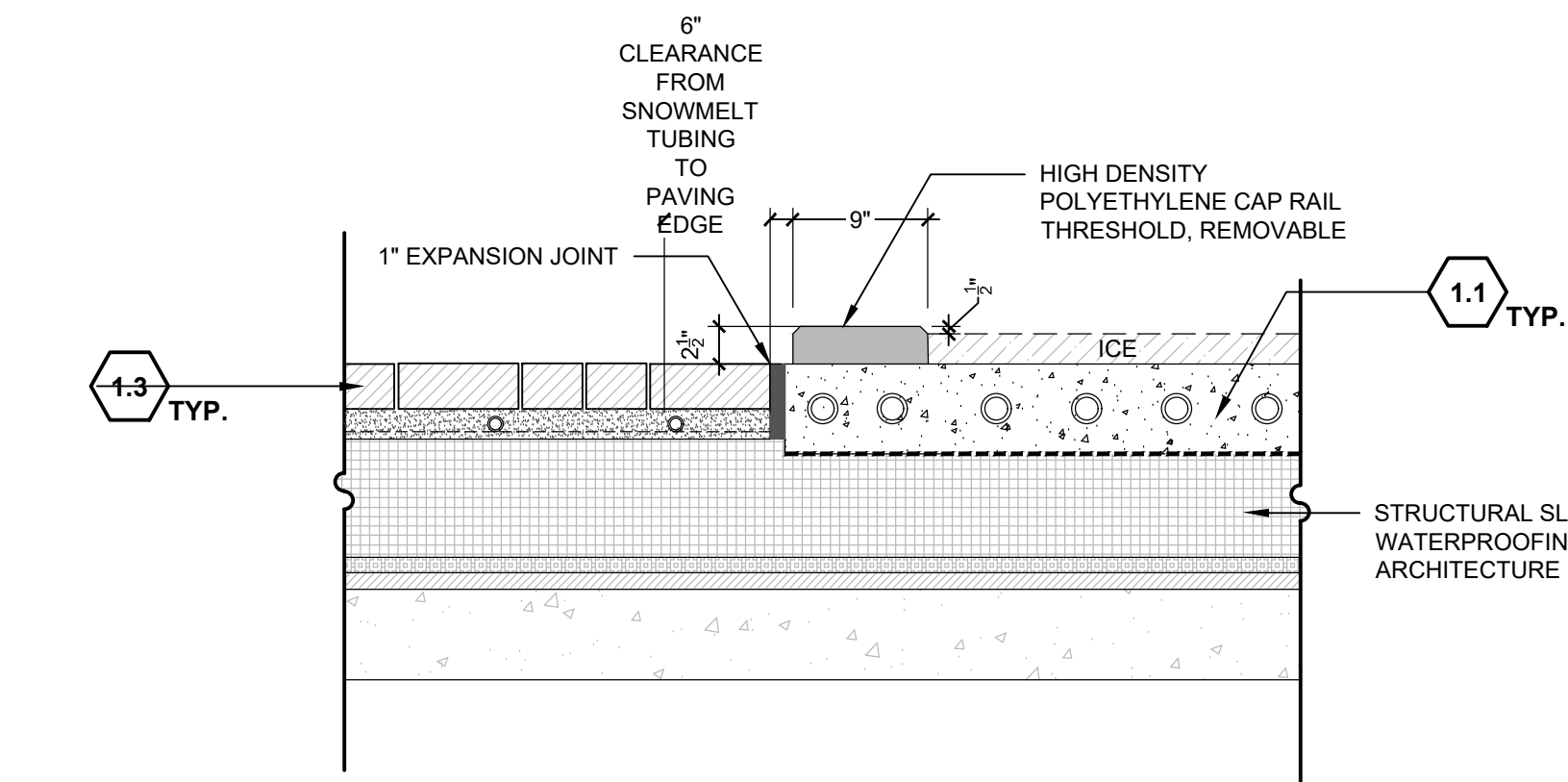


NOTE: Refer to General Information Sheet L0-04 for General and Series Specific Notes, Legends, Abbreviations, Lists, Schedules, and Mockup details.

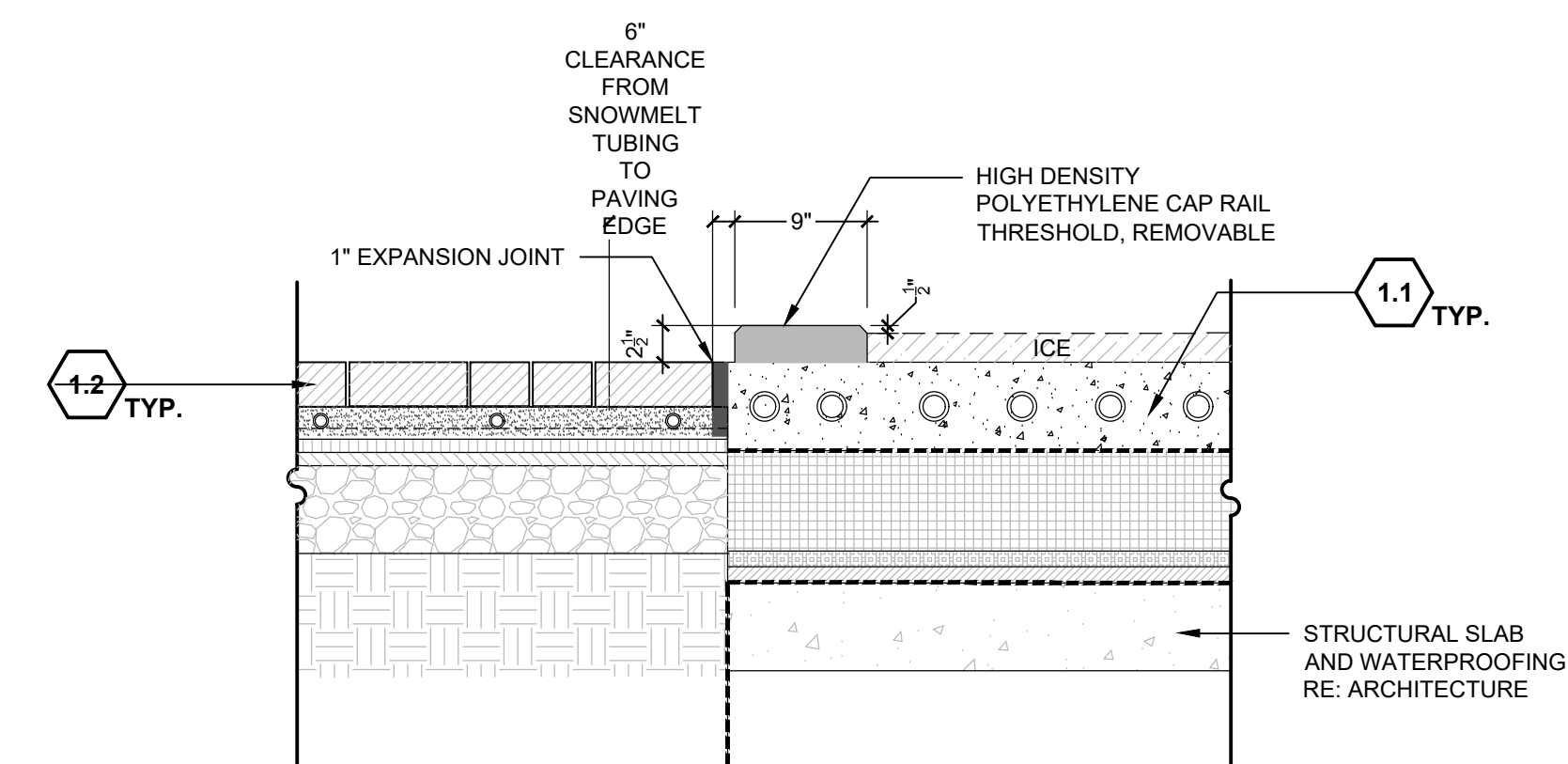




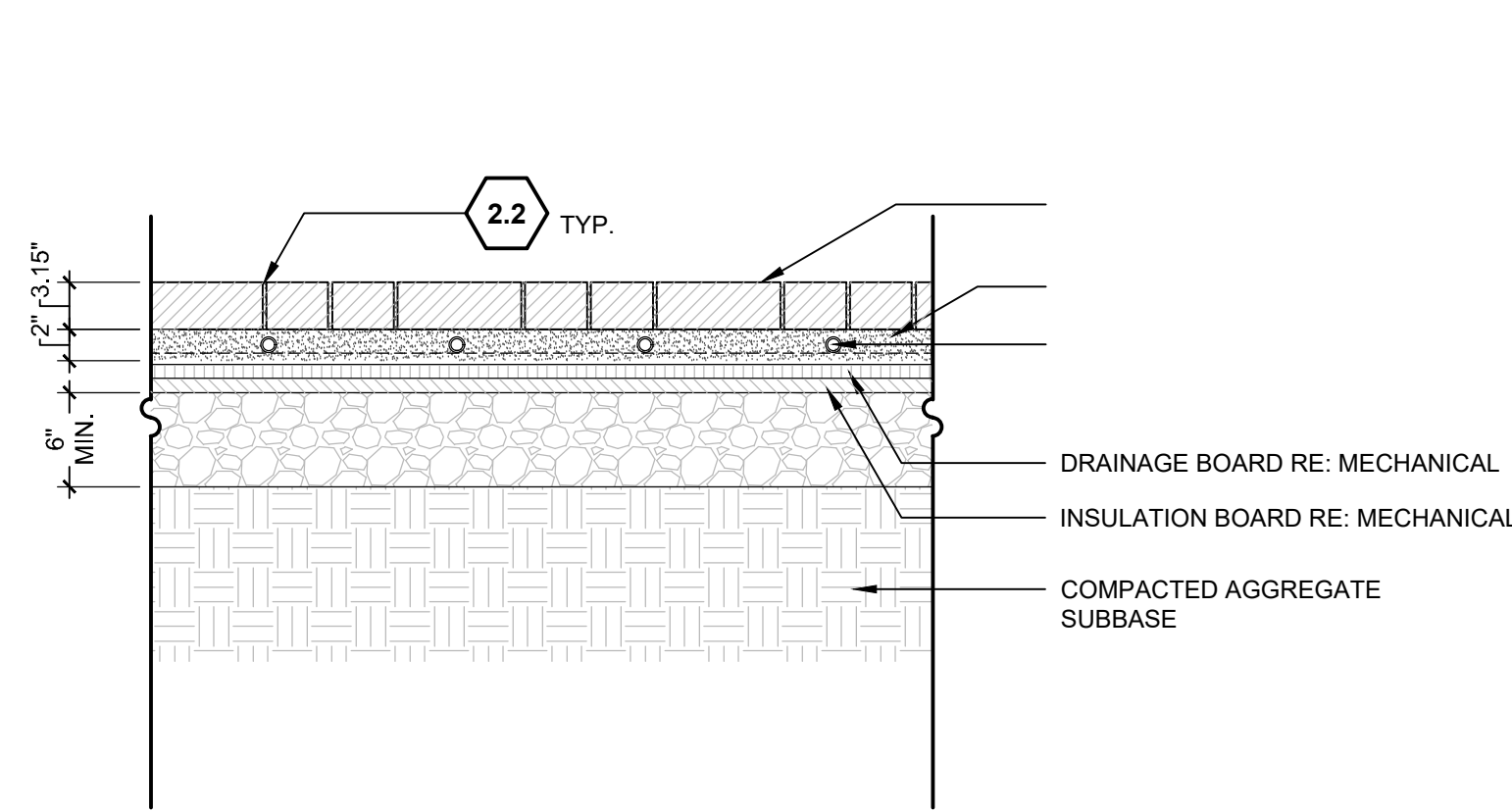
1 Concrete Paving at Ice Rink: Refrigerated Slab



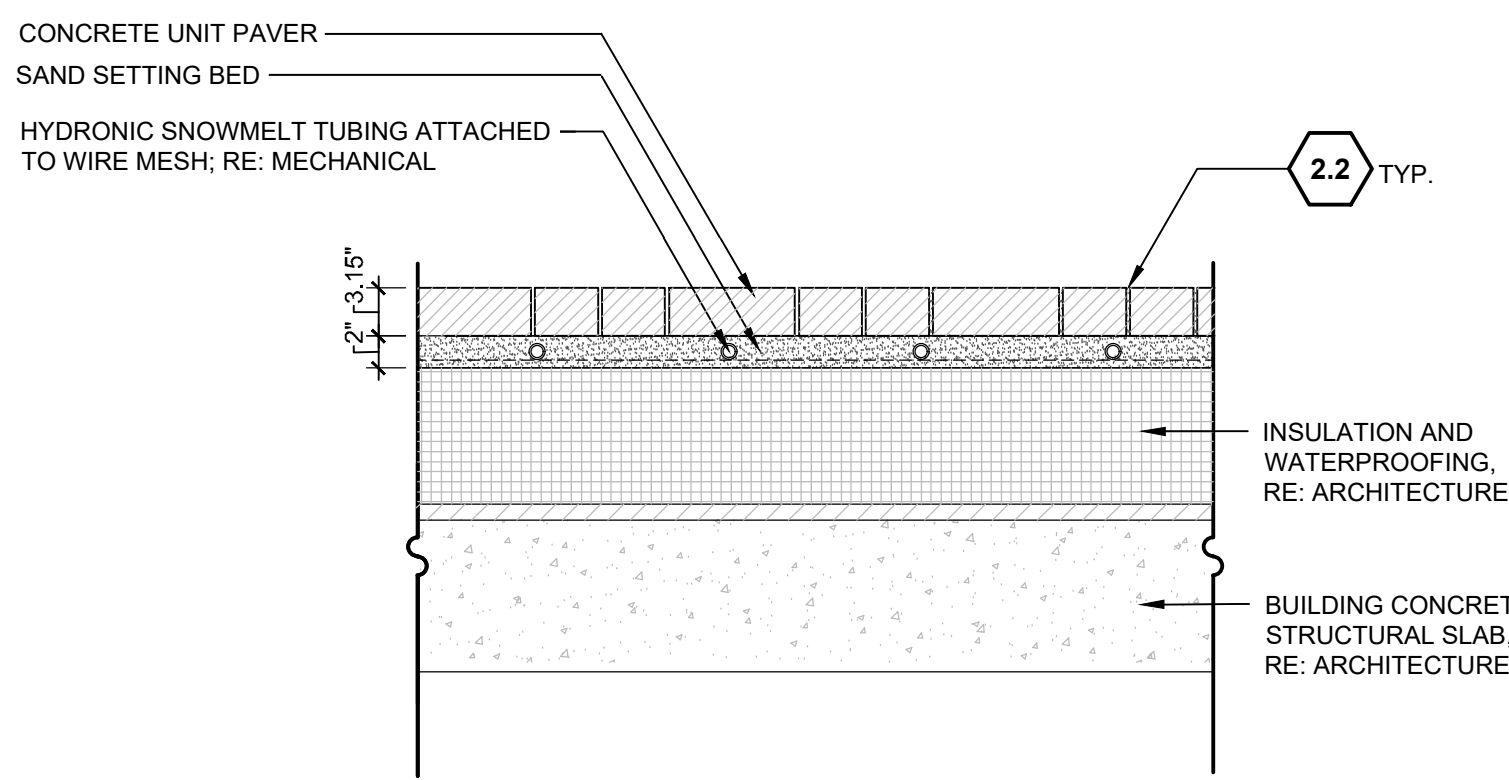
2 Threshold at Ice Rink: Over Structure



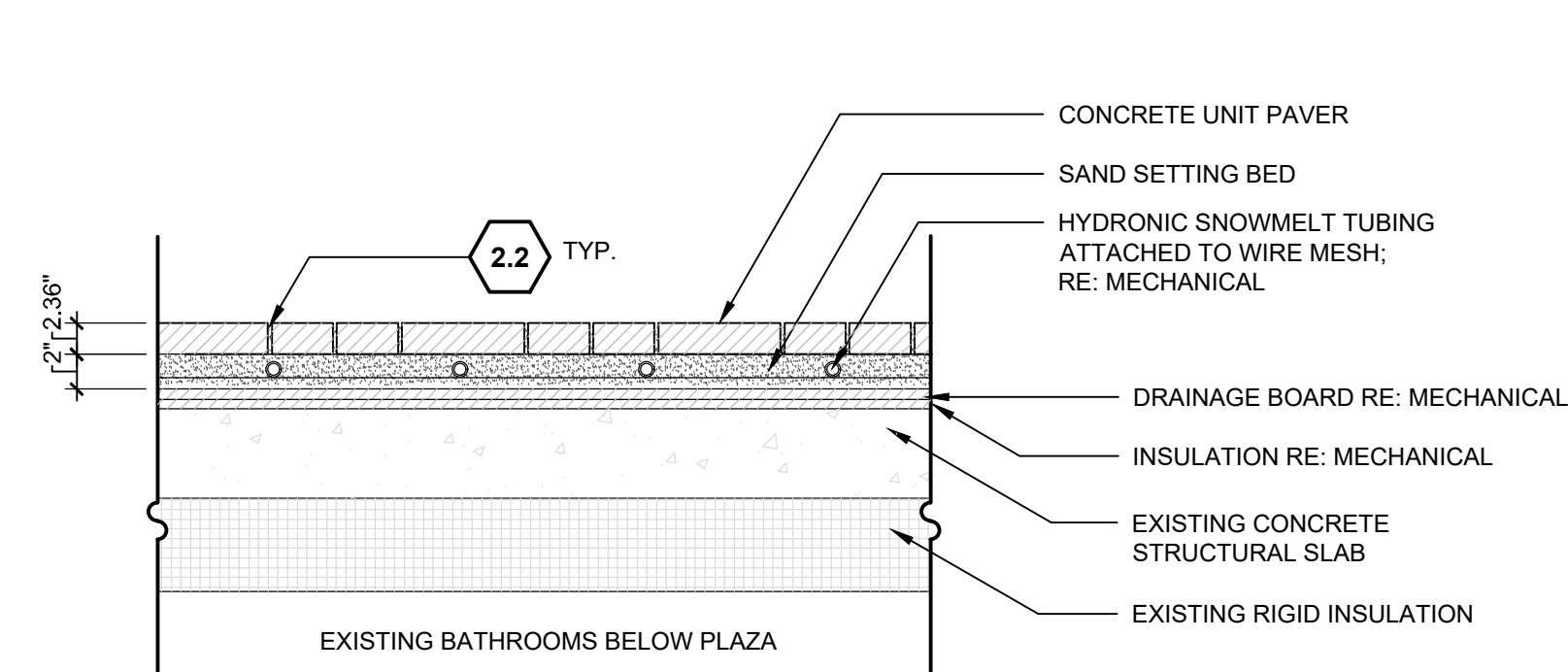
3 Threshold at Ice Rink: At Grade



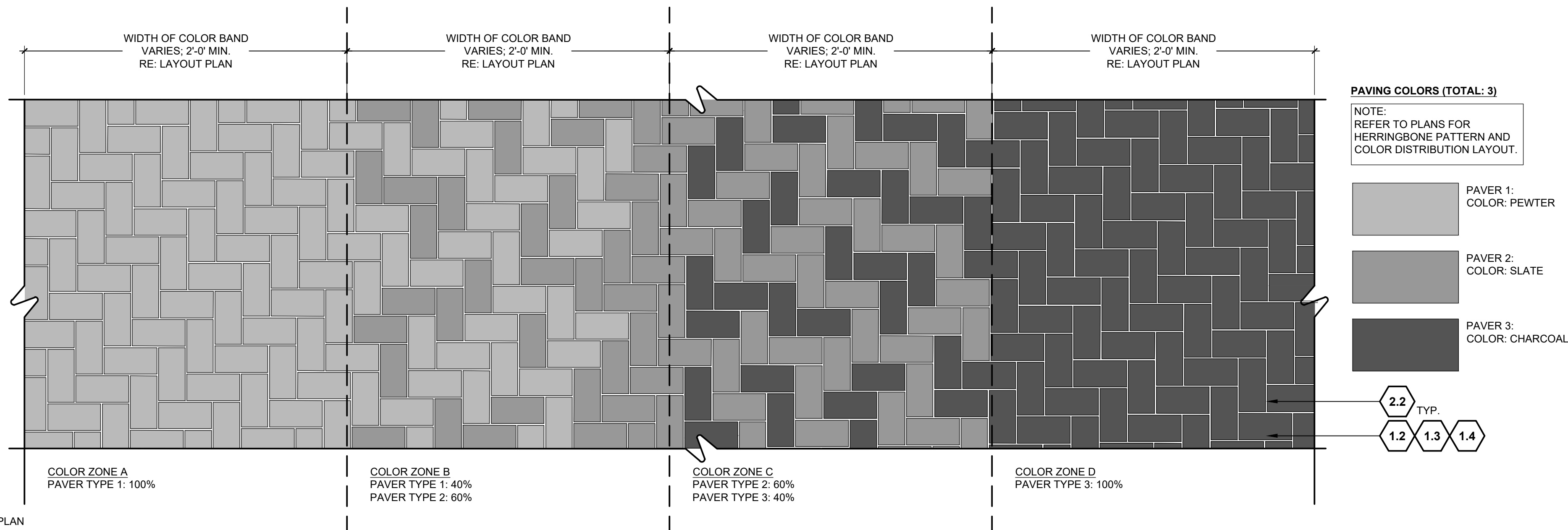
4 Unit Paving Type 1: At Grade



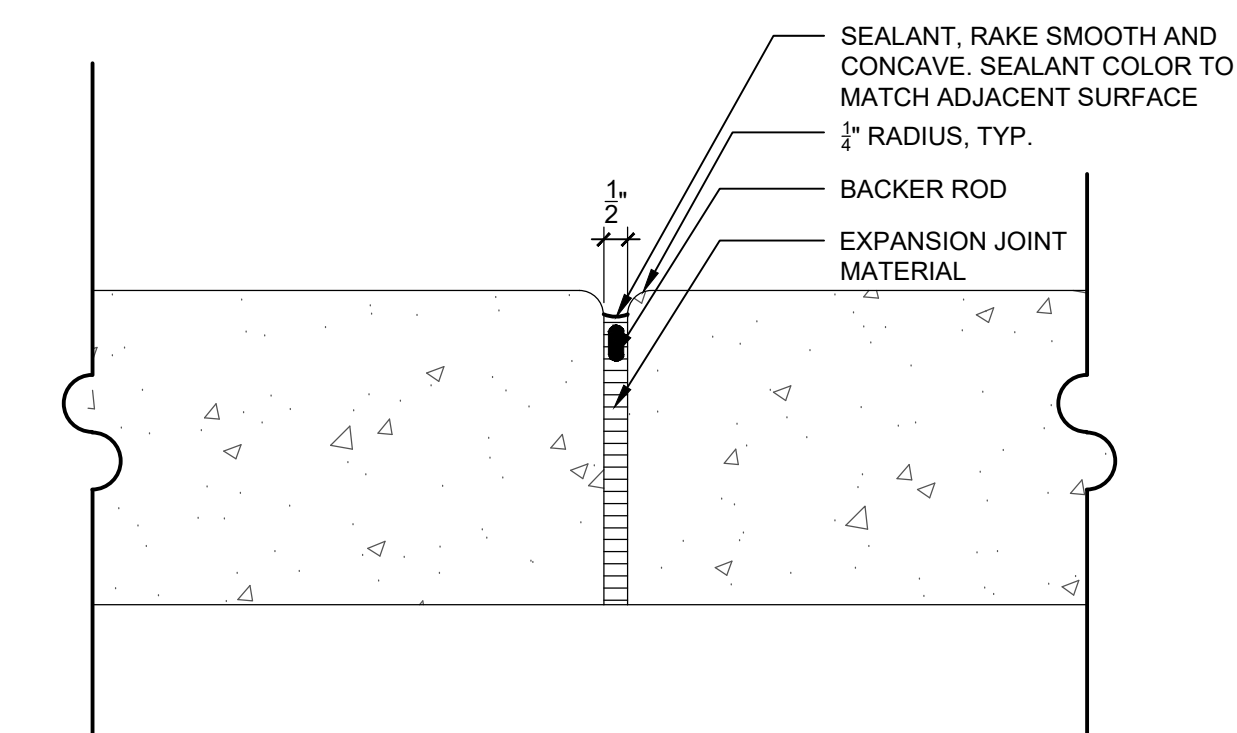
5 Unit Paving Type 2: On Structure



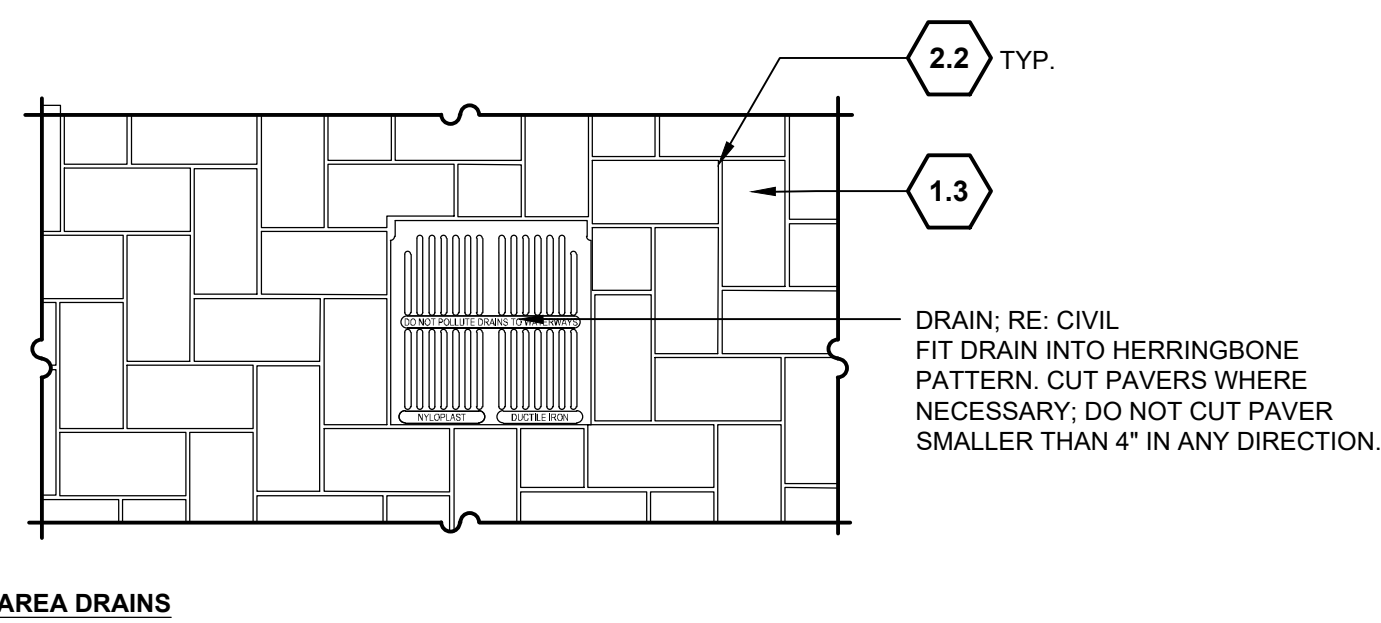
6 Unit Paving Type 3: At Elevated Plaza



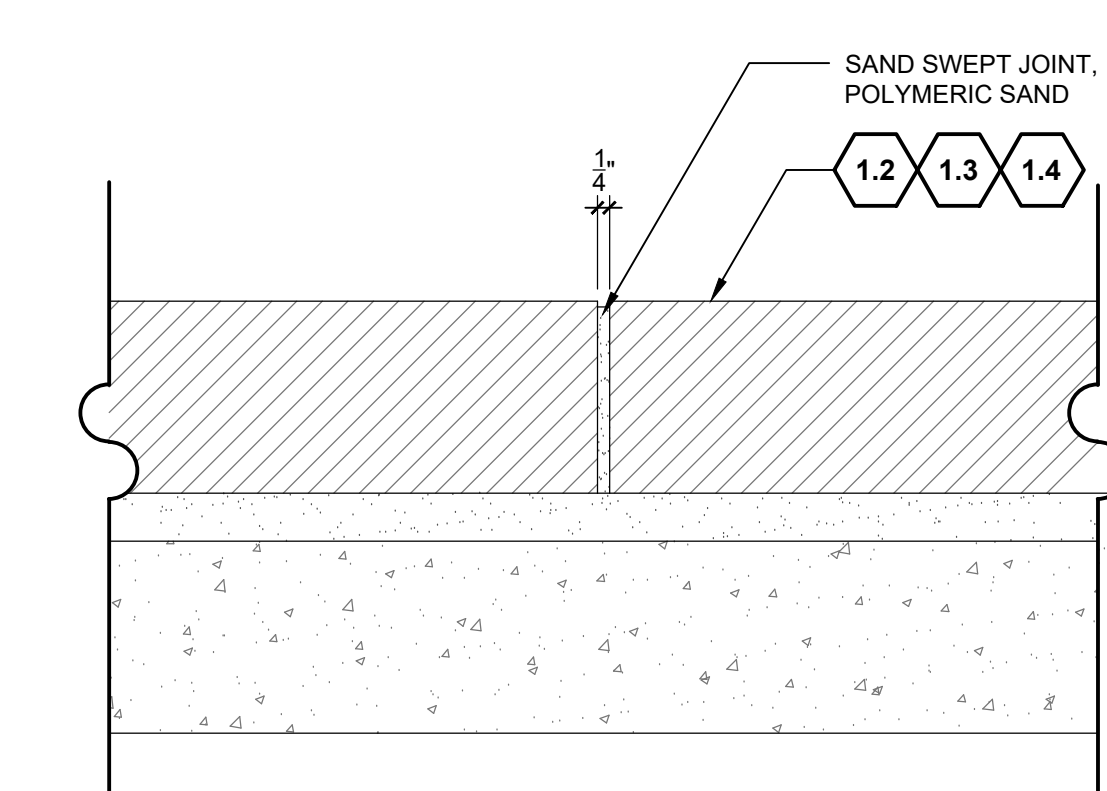
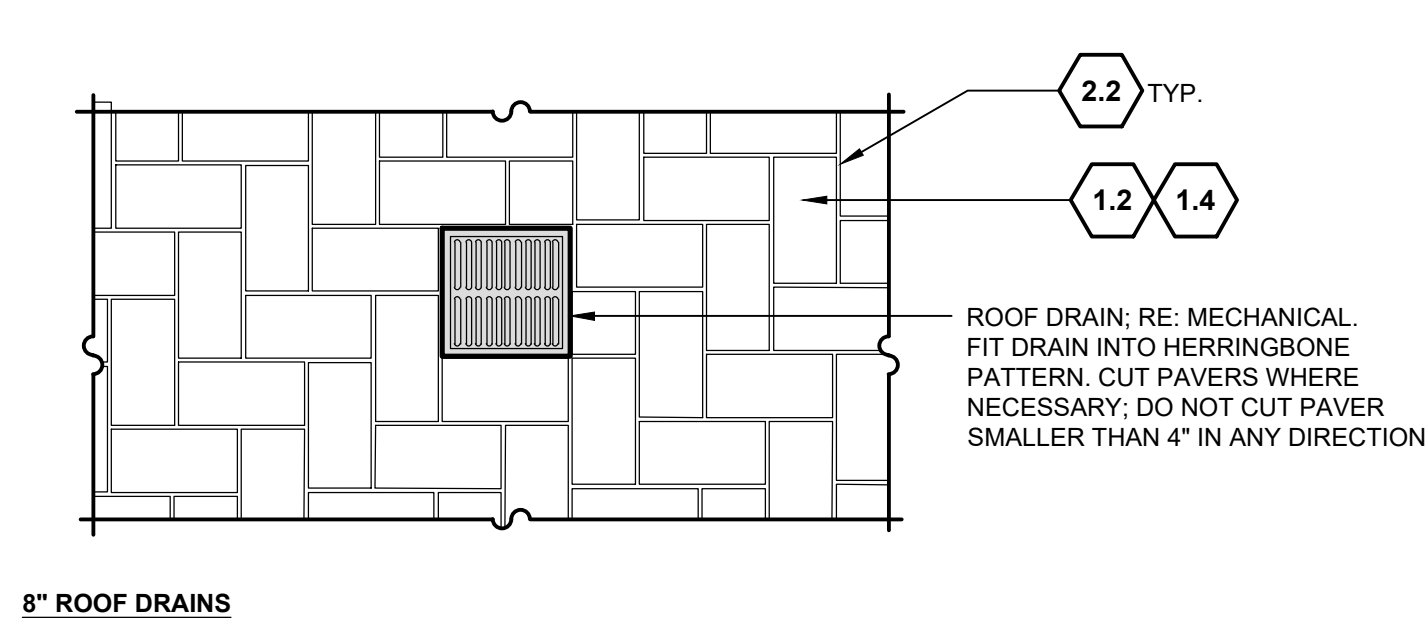
7 Unit Paving Typical Color Distribution



8 Expansion Joint



9 Unit Paving at Drains



10 Sand Joint

SITE KEYNOTES:	DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0 PAVEMENTS, RAMPS, CURBS			
1.1 Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01	Ref Division 13	
1.2 Unit Paving Type 1: At Grade	4 / 1A-L7-01	7.9/1A-L7-01	321400
1.3 Unit Paving Type 2: Over Structure	5 / 1A-L7-01	7.9/1A-L7-01	321400
1.4 Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01	7.9/1A-L7-01	321400
1.5A Threshold at Ice Rink: Over Structure	2 / 1A-L7-01		321400
1.5B Threshold at Ice Rink: At Grade	3 / 1A-L7-01		321400
2.0 JOINTING			
2.1 Expansion Joint	8 / 1A-L7-01		321373
2.2 Sand Joint	10 / 1A-L7-01		321400
3.0 STEPS			
3.1 Stairs Type 1: At Elevated Plaza	1 / 1A-L7-02		033000
3.2 Stairs Type 2: At Promenade Building	2 / 1A-L7-02		033000
3.3 Seating Steps at Elevated Plaza	3 / 1A-L7-02		033000
4.0 SITE WALLS/ EMBANKMENTS			
4.1 Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03		033000
4.2 Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03	2/1A-L7-08	033000
4.3 Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04		033000
		Ref Arch: Exterior Stone ST1	
5.0 SITE FURNITURE			
Refer to Site Furnishings Series			
5.1 Fire Bowl			103000
5.2 Trash Receptacle			By Owner
5.3 Planter Pots			323300
6.0 RAILINGS, BARRIERS, FENCING			
6.1 Railing Type 1: At Stairs	2 / 1A-L7-04		055213
6.2 Railing Type 2: At Ice Rink	1 / 1A-L7-05		323119
6.3 Railing Type 3: Drink Ledge	2 / 1A-L7-05		323119
6.4A Ice Rink Gate: Double	3 / 1A-L7-05		323119
6.4B Ice Rink Gate: Single	4 / 1A-L7-05		323119
7.0 SITE LIGHTING			
Refer to Site Lighting Series			
7.1 Tree Mounted Lighting (Type F8)		Ref Electric	1/1A-L7-10 Ref Electric
7.2 Light Pole Fountain Under Pavers		Ref Electric	2/1A-L7-10 Ref Electric
8.0 DRAINAGE			
Refer to Civil Drawings			
9.0 PLANTING AND LANDSCAPE			
Refer to Tree Planting and Shrub and Groundcover Series Drawings			
10.0 MISCELLANEOUS ELEMENTS			
10.1 Fire Pit	1 / 1A-L7-06	2/1A-L7-06	103000
10.2 Bench: Type 1	1 / 1A-L7-07		055000/ 061083

Steamboat
ALTRERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823

LANDMARK
CONSULTANTS, INC.
141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

DESIGNWORKSHOP
1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186

MARTIN/MARTIN
CONSULTING ENGINEERS
14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.431.6100

me
engineers

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature

JAMES FOGLE
130
Original Date of Licensure
01/01/2004
STATE OF COLORADO
LICENSED LANDSCAPE ARCHITECT

Project Name
BP3C PROMENADE PERMIT AND CONSTRUCTION

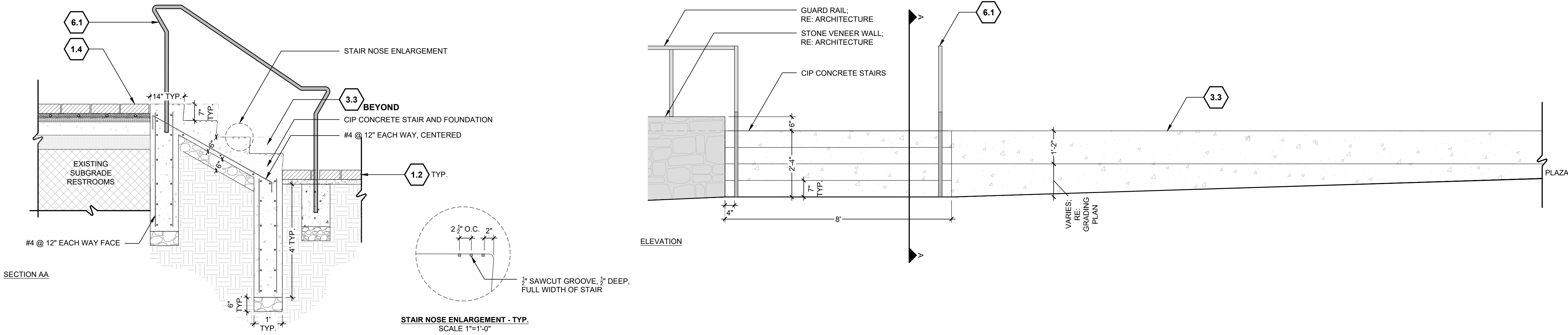
Project Number
003.7835.000

DW Project Number
6466

Description
BP3: PROMENADE - ISSUE FOR BID AND PERMIT

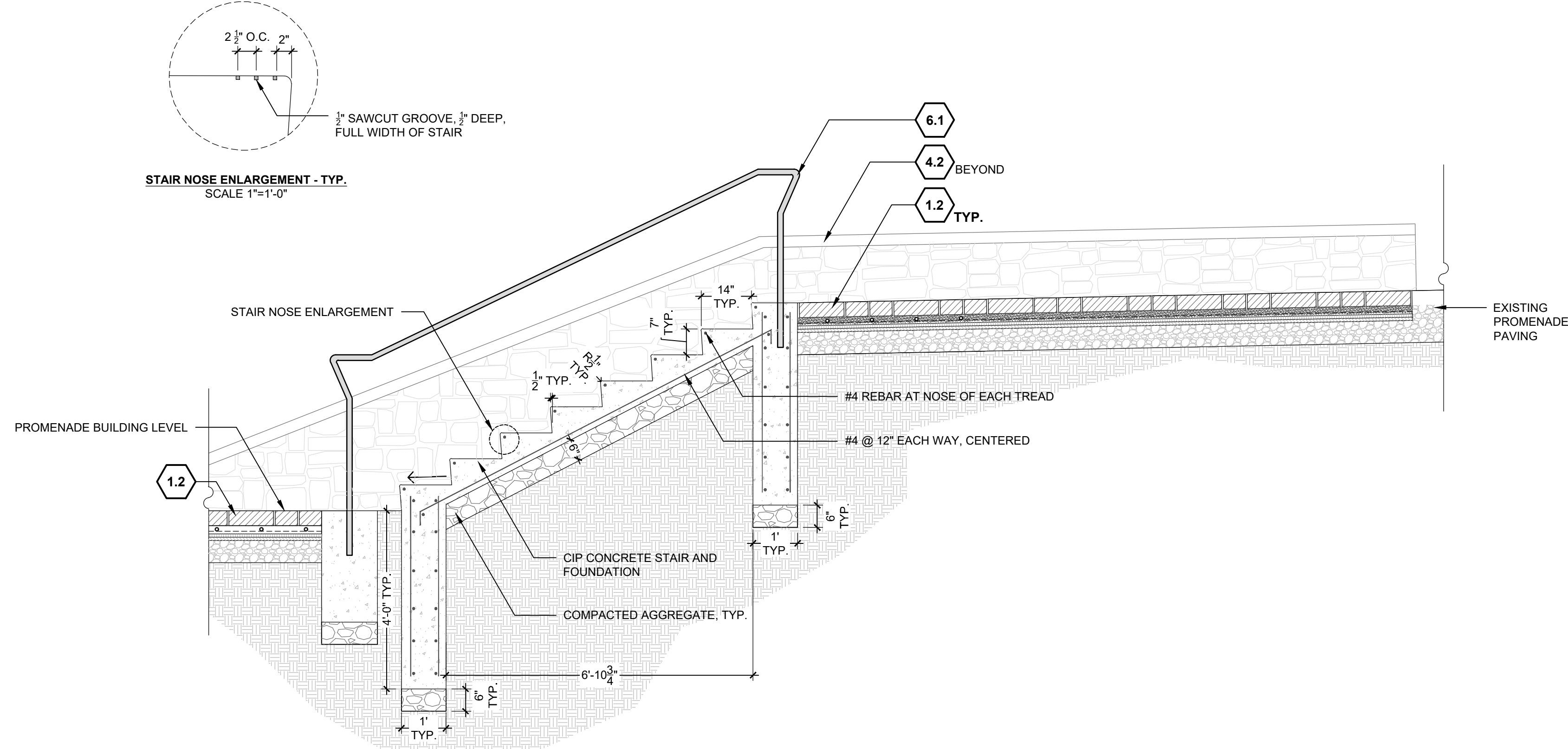
SITE DETAILS

1A-L7-01



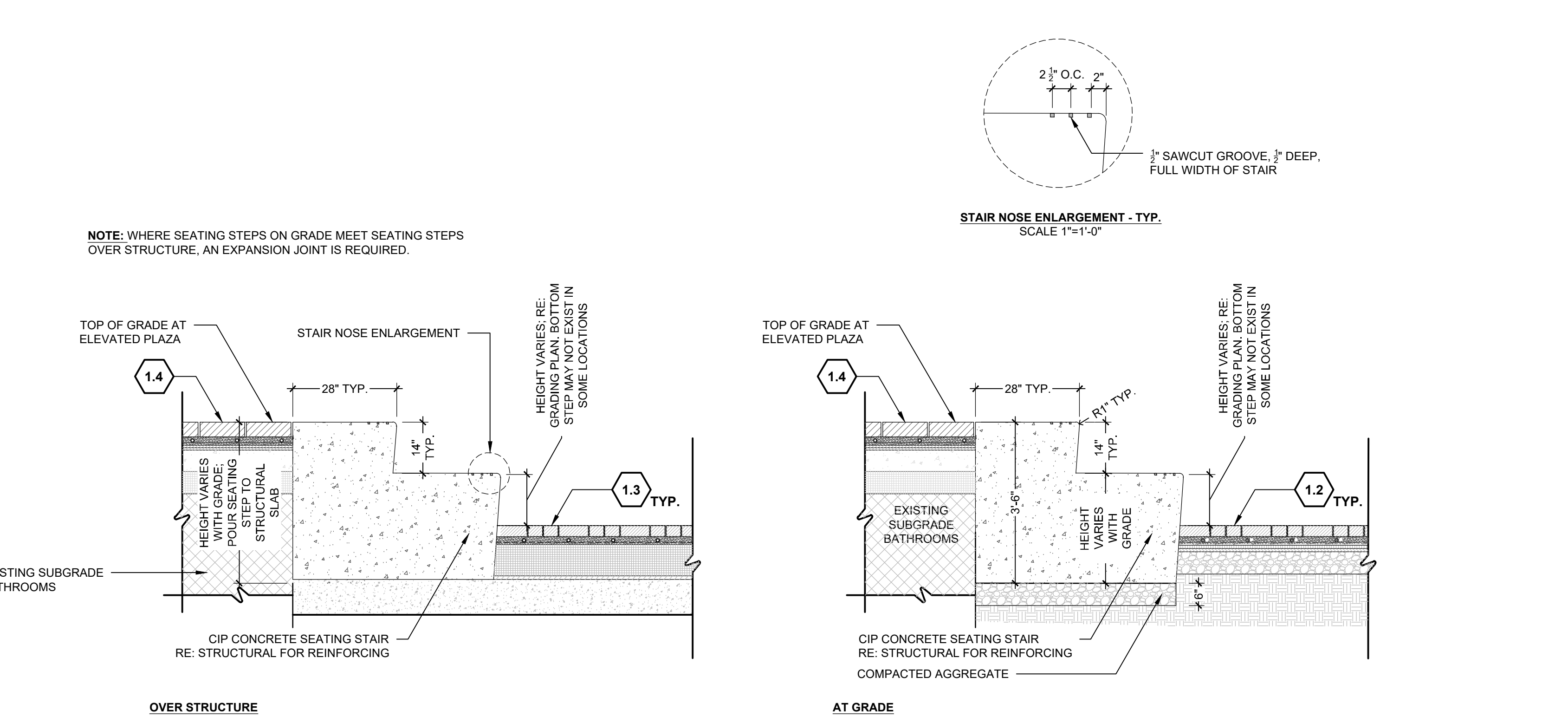
1 Stairs Type 1: At Elevated Plaza

1/2" = 1'-0"



2 Stairs Type 3: At Promenade Building

1 1/2" = 1'-0"



3 Seating Steps at Elevated Plaza

1/2" = 1'-0"

SITE KEYNOTES:	DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0 PAVEMENTS, RAMPS, CURBS			
1.1 Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01	Ref Division 13	
1.2 Unit Paving Type 1: At Grade	4 / 1A-L7-01	7.9/1A-L7-01	321400
1.3 Unit Paving Type 2: Over Structure	5 / 1A-L7-01	7.9/1A-L7-01	321400
1.4 Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01	7.9/1A-L7-01	321400
1.5A Threshold at Ice Rink: Over Structure	2 / 1A-L7-01		321400
1.5B Threshold at Ice Rink: At Grade	3 / 1A-L7-01		321400
2.0 JOINTING			
2.1 Expansion Joint	8 / 1A-L7-01		321373
2.2 Sand Joint	10 / 1A-L7-01		321400
3.0 STEPS			
3.1 Stairs Type 1: at Elevated Plaza	1 / 1A-L7-02		033000
3.2 Stairs Type 2: At Promenade Building	2 / 1A-L7-02		033000
3.3 Seating Steps at Elevated Plaza	3 / 1A-L7-02		033000
4.0 SITE WALLS/ EMBANKMENTS			
4.1 Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03		033000
4.2 Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03	2/1A-L7-08	033000
4.3 Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04		033000
		Ref Arch: Exterior Stone ST1	
5.0 SITE FURNITURE			
Refer to Site Furnishings Series			
5.1 Fire Bowl			103000
5.2 Trash Receptacle		By Owner	
5.3 Planter Pots			323300
6.0 RAILINGS, BARRIERS, FENCING			
6.1 Railing Type 1: At Stairs	2 / 1A-L7-04		055213
6.2 Railing Type 2: At Ice Rink	1 / 1A-L7-05		323119
6.3 Railing Type 3: Drink Ledge	2 / 1A-L7-05		323119
6.4A Ice Rink Gate: Double	3 / 1A-L7-05		323119
6.4B Ice Rink Gate: Single	4 / 1A-L7-05		323119
7.0 SITE LIGHTING			
Refer to Site Lighting Series			
7.1 Tree Mounted Lighting (Type F8)		Ref Electric	1/1A-L7-10 Ref Electric
7.2 Light Pole Fountain Under Pavers		Ref Electric	2/1A-L7-10 Ref Electric
8.0 DRAINAGE			
Refer to Civil Drawings			
9.0 PLANTING AND LANDSCAPE			
Refer to Tree Planting and Shrub and Groundcover Series Drawings			
10.0 MISCELLANEOUS ELEMENTS			
10.1 Fire Pit	1 / 1A-L7-06	2/1A-L7-06	103000
10.2 Bench: Type 1	1 / 1A-L7-07		055000/ 061083

Steamboat
ALTRERA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler
1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823

LANDMARK
CONSULTANTS, P.C.
141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

DESIGNWORKSHOP
1390 Lawrence Street
Suite 100
Denver, CO 80204
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CONSULTANTS, P.C.
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Lakewood, CO 80215
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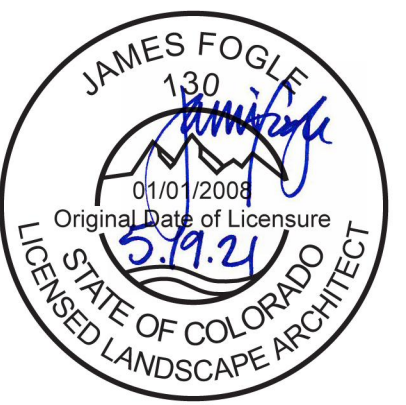
me
engineers
14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

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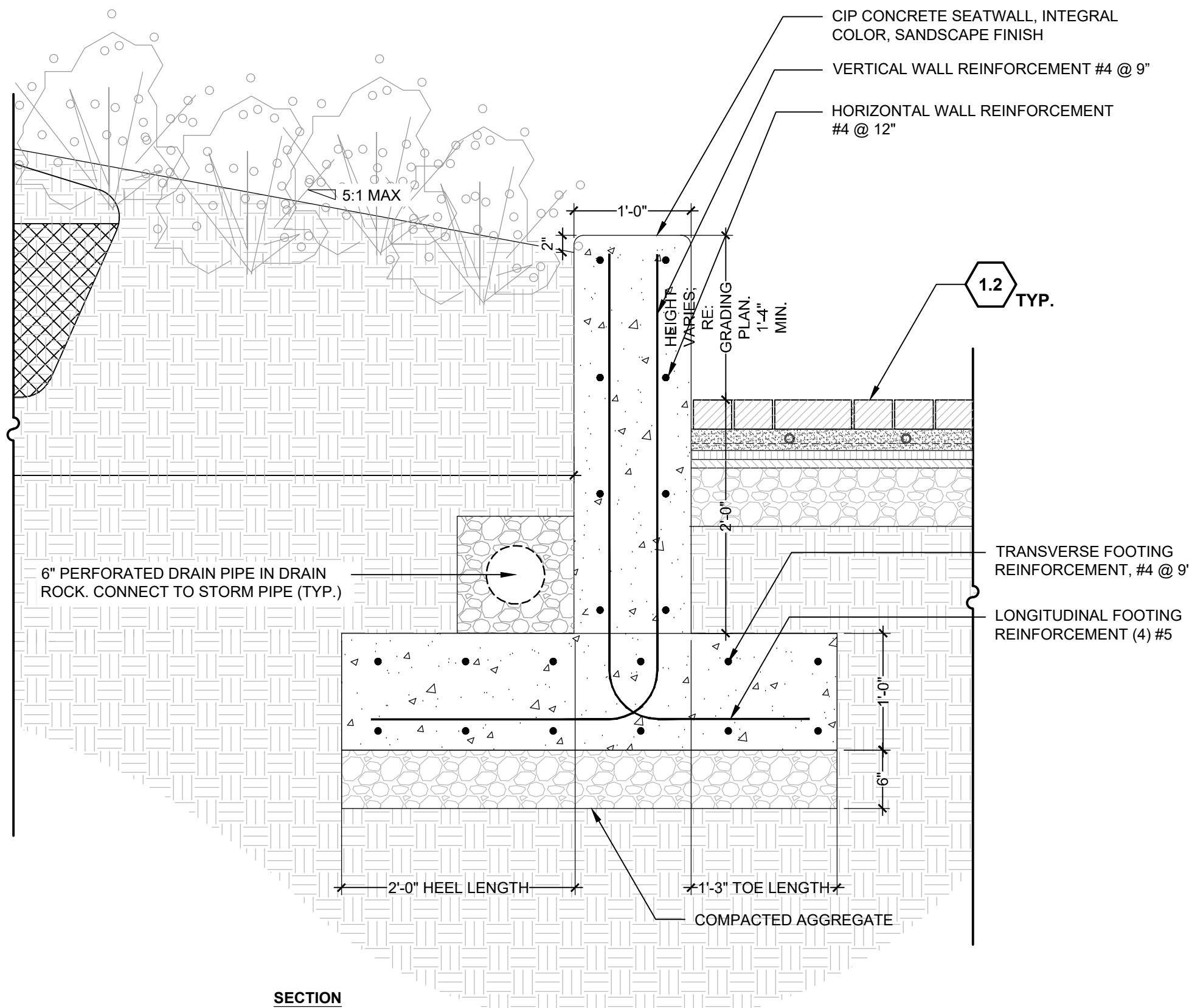


Project No:
BP3C PROMENADE PERMIT AND CONSTRUCTION

Project Number: 003.7835.000
DW Project Number: 6466

Description:
BP3: PROMENADE - ISSUE FOR BID AND PERMIT

SITE DETAILS
1A-L7-02

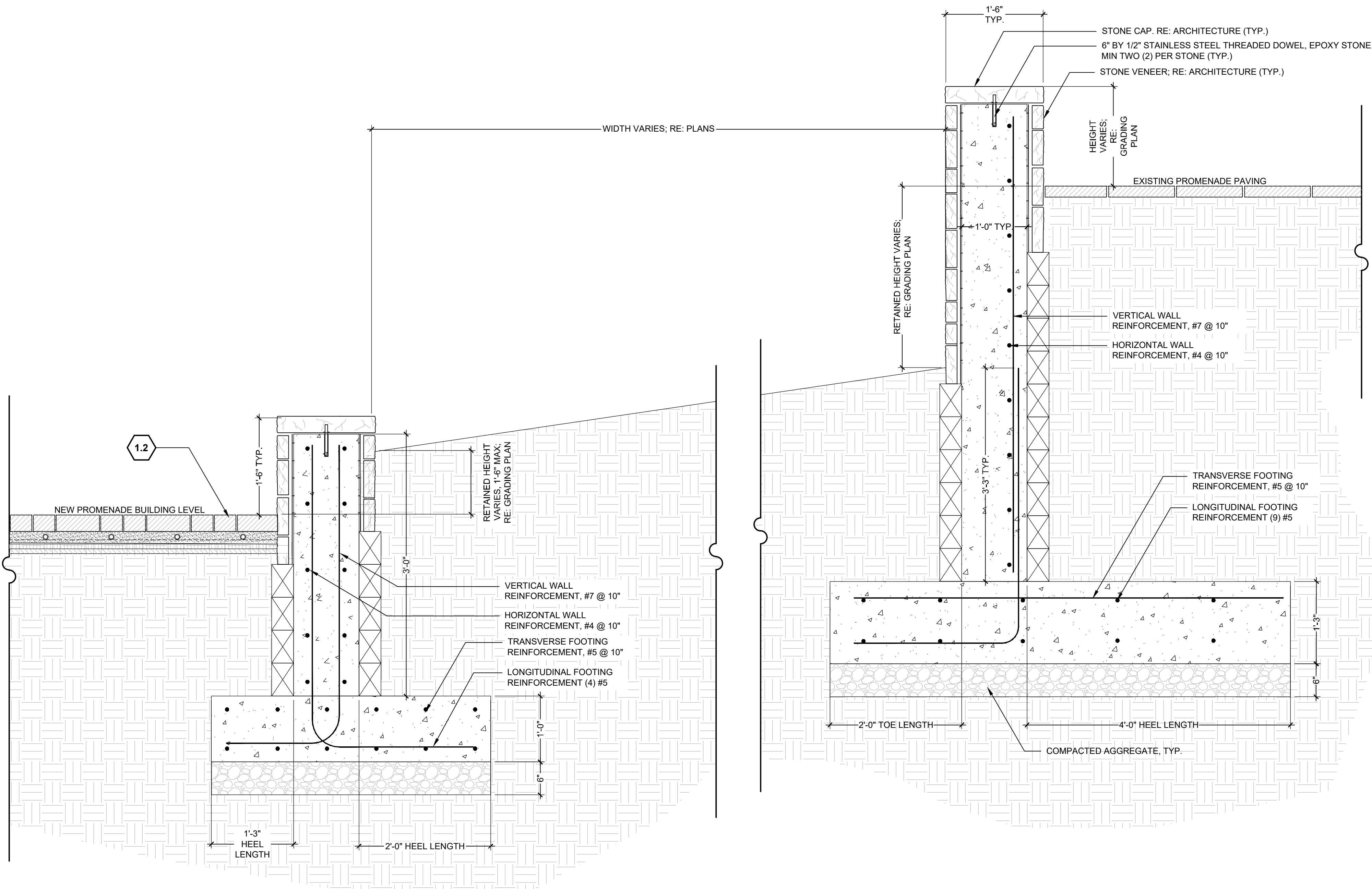


SECTION

1 Wall Type 1: Concrete Planter Wall

1"=1'-0"

4.1



NOTE: REFER TO LAYOUT PLAN FOR CAPSTONE LAYOUT

2 Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade

1"=1'-0"

4.2

SITE KEYNOTES:

	DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS		
1.1	Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01	Ref Division 13
1.2	Unit Paving Type 1: At Grade	4 / 1A-L7-01	7.9/1A-L7-01 321400
1.3	Unit Paving Type 2: Over Structure	5 / 1A-L7-01	7.9/1A-L7-01 321400
1.4	Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01	7.9/1A-L7-01 321400
1.5A	Threshold at Ice Rink: Over Structure	2 / 1A-L7-01	321400
1.5B	Threshold at Ice Rink: At Grade	3 / 1A-L7-01	321400
2.0	JOINTING		
2.1	Expansion Joint	8 / 1A-L7-01	321373
2.2	Sand Joint	10 / 1A-L7-01	321400
3.0	STEPS		
3.1	Stairs Type 1: at Elevated Plaza	1 / 1A-L7-02	033000
3.2	Stairs Type 2: At Promenade Building	2 / 1A-L7-02	033000
3.3	Seating Steps at Elevated Plaza	3 / 1A-L7-02	033000
4.0	SITE WALLS/ EMBANKMENTS		
4.1	Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03	033000
4.2	Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03	2/1A-L7-08 033000
4.3	Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04	033000
		Ref Arch: Exterior Stone ST1	
5.0	SITE FURNITURE		
	Refer to Site Furnishings Series		
5.1	Fire Bowl		103000
5.2	Trash Receptacle		By Owner
5.3	Planter Pots		323300
6.0	RAILINGS, BARRIERS, FENCING		
6.1	Railing Type 1: At Stairs	2 / 1A-L7-04	055213
6.2	Railing Type 2: At Ice Rink	1 / 1A-L7-05	323119
6.3	Railing Type 3: Drink Ledge	2 / 1A-L7-05	323119
6.4A	Ice Rink Gate: Double	3 / 1A-L7-05	323119
6.4B	Ice Rink Gate: Single	4 / 1A-L7-05	323119
7.0	SITE LIGHTING		
	Refer to Site Lighting Series		
7.1	Tree Mounted Lighting (Type F8)	Ref Electric	1/1A-L7-10 Ref Electric
7.2	Light Pole Fountain Under Pavers	Ref Electric	2/1A-L7-10 Ref Electric
8.0	DRAINAGE		
	Refer to Civil Drawings		
9.0	PLANTING AND LANDSCAPE		
	Refer to Tree Planting and Shrub and Groundcover Series Drawings		
10.0	MISCELLANEOUS ELEMENTS		
10.1	Fire Pit	1 / 1A-L7-06	2/1A-L7-06 103000
10.2	Bench: Type 1	1 / 1A-L7-07	055000/ 061083



ALTRERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823



DESIGNWORKSHOP

141 9th Street
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Steamboat Springs, CO
80477
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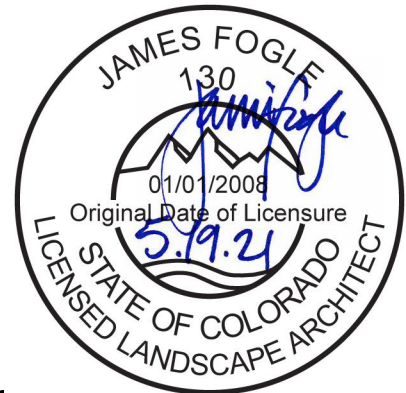
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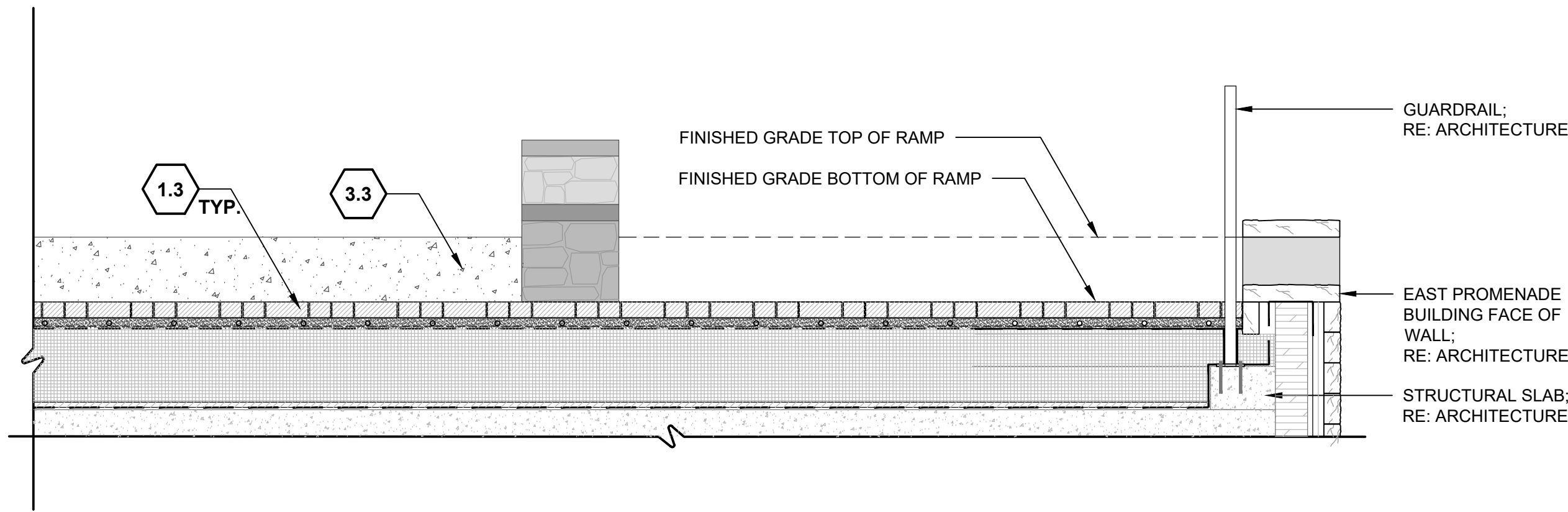
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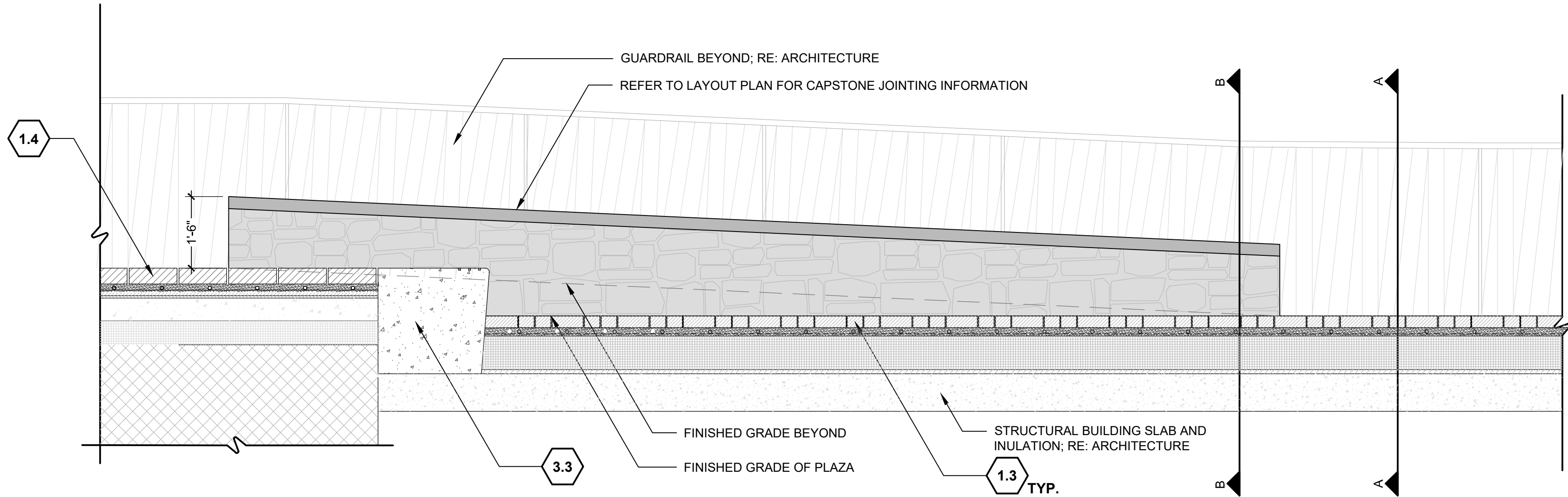
Project No:
BP3C PROMENADE PERMIT
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BP3: PROMENADE - ISSUE FOR BID
AND PERMIT

SITE
DETAILS

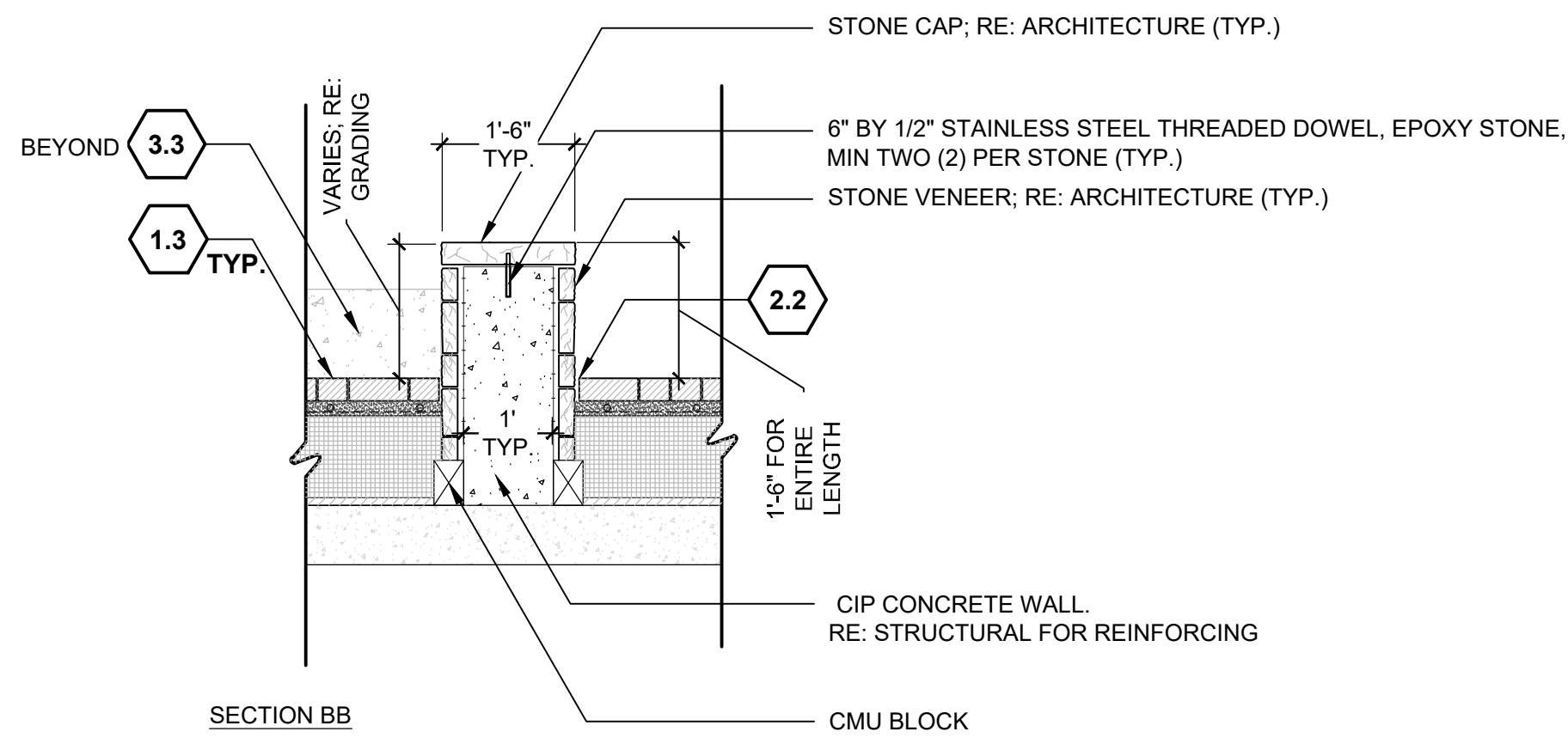
1A-L7-03



SECTION-ELEVATION AA



ELEVATION LOOKING EAST

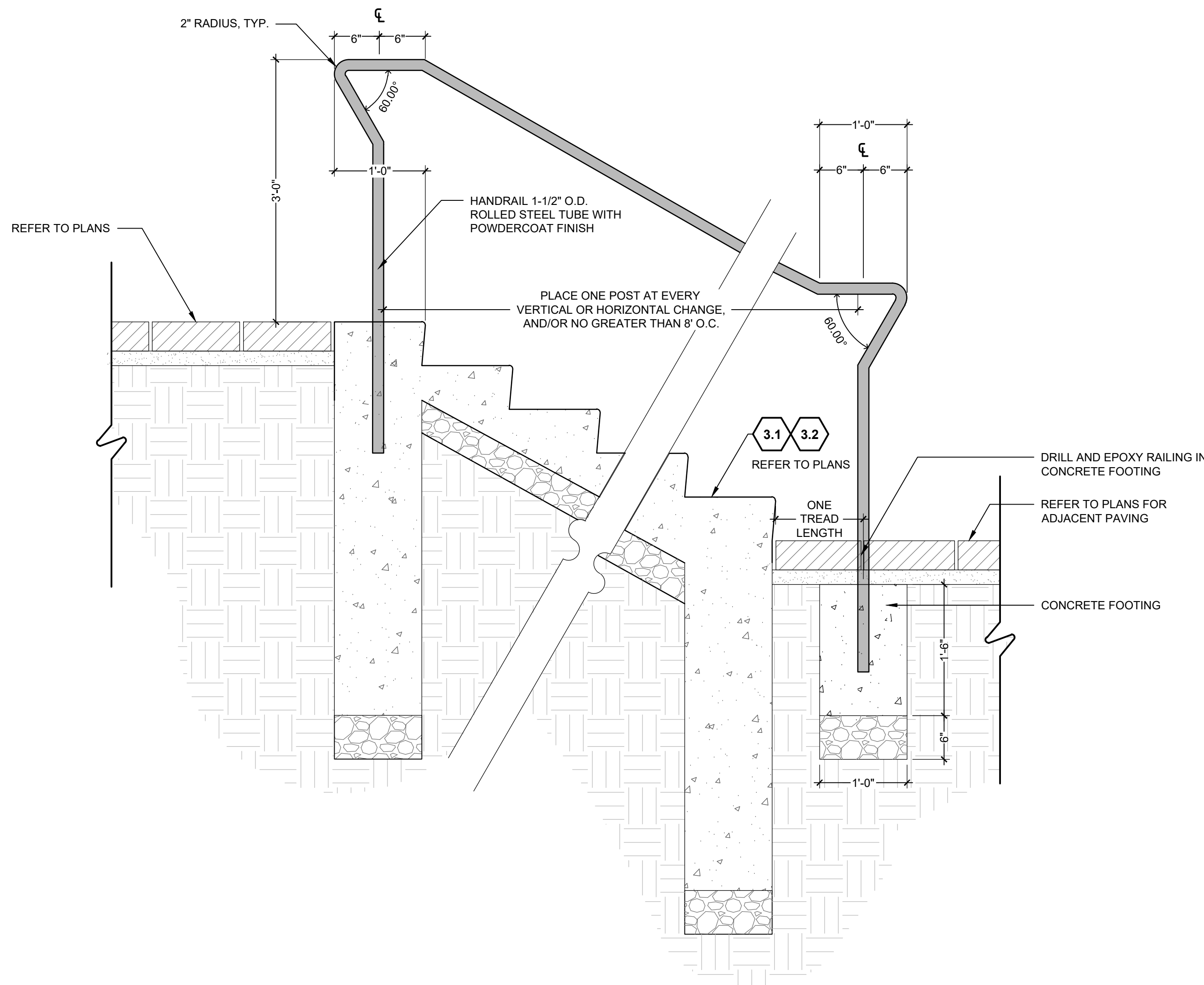


SECTION BB

1 Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza

1/2"=1'-0"

4.2



2 Railing Type 1: At Stair

1'-1'-0"

6.1

SITE KEYNOTES:

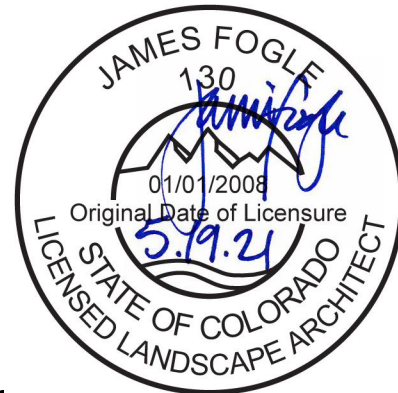
DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS	
1.1	Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01 Ref Division 13
1.2	Unit Paving Type 1: At Grade	4 / 1A-L7-01 7.9/1A-L7-01 321400
1.3	Unit Paving Type 2: Over Structure	5 / 1A-L7-01 7.9/1A-L7-01 321400
1.4	Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01 7.9/1A-L7-01 321400
1.5A	Threshold at Ice Rink: Over Structure	2 / 1A-L7-01 321400
1.5B	Threshold at Ice Rink: At Grade	3 / 1A-L7-01 321400
2.0	JOINTING	
2.1	Expansion Joint	8 / 1A-L7-01 321373
2.2	Sand Joint	10 / 1A-L7-01 321400
3.0	STEPS	
3.1	Stairs Type 1: at Elevated Plaza	1 / 1A-L7-02 033000
3.2	Stairs Type 2: At Promenade Building	2 / 1A-L7-02 033000
3.3	Seating Steps at Elevated Plaza	3 / 1A-L7-02 033000
4.0	SITE WALLS/ EMBANKMENTS	
4.1	Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03 033000
4.2	Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03 2/1A-L7-08 033000 Ref Arch: Exterior Stone ST1
4.3	Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04 033000 Ref Arch: Exterior Stone ST1
5.0	SITE FURNITURE	
Refer to Site Furnishings Series		
5.1	Fire Bowl	103000
5.2	Trash Receptacle	By Owner
5.3	Planter Pots	323300
6.0	RAILINGS, BARRIERS, FENCING	
6.1	Railing Type 1: At Stairs	2 / 1A-L7-04 055213
6.2	Railing Type 2: At Ice Rink	1 / 1A-L7-05 323119
6.3	Railing Type 3: Drink Ledge	2 / 1A-L7-05 323119
6.4A	Ice Rink Gate: Double	3 / 1A-L7-05 323119
6.4B	Ice Rink Gate: Single	4 / 1A-L7-05 323119
7.0	SITE LIGHTING	
Refer to Site Lighting Series		
7.1	Tree Mounted Lighting (Type F8)	Ref Electric 1/1A-L7-10 Ref Electric
7.2	Light Pole Fountain Under Pavers	Ref Electric 2/1A-L7-10 Ref Electric
8.0	DRAINAGE	
Refer to Civil Drawings		
9.0	PLANTING AND LANDSCAPE	
Refer to Tree Planting and Shrub and Groundcover Series Drawings		
10.0	MISCELLANEOUS ELEMENTS	
10.1	Fire Pit	1 / 1A-L7-06 2/1A-L7-06 103000
10.2	Bench: Type 1	1 / 1A-L7-07 055000/ 061083

△ Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT



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Project No:

BP3C PROMENADE PERMIT
AND CONSTRUCTION

Project Number

DW Project Number

003.7835.000

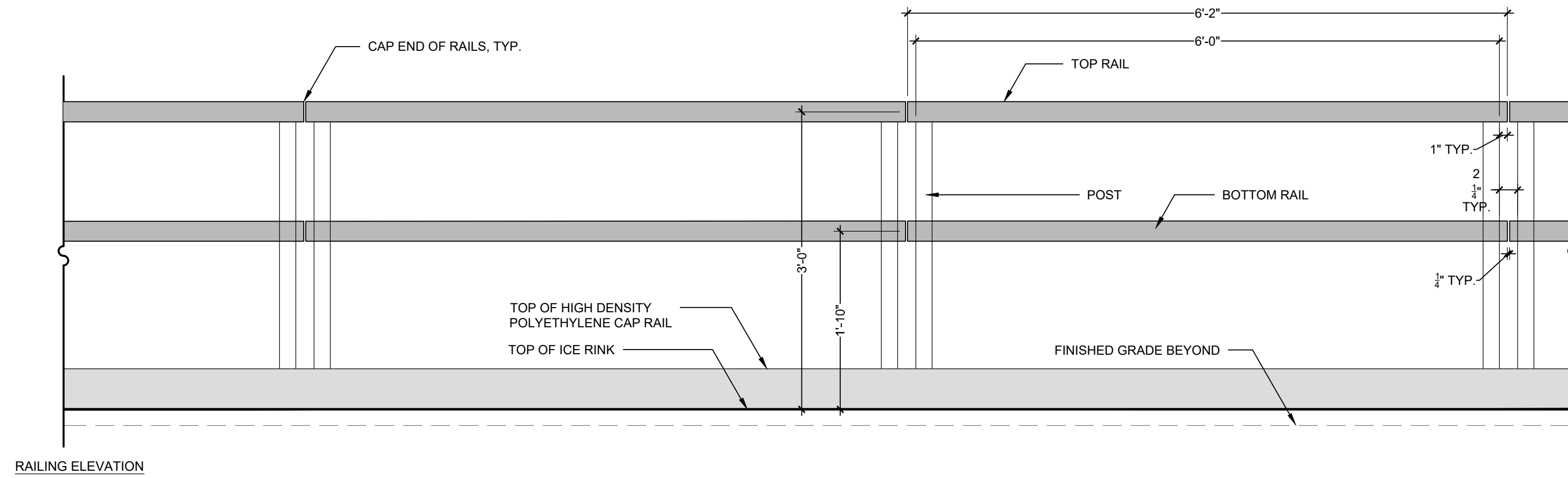
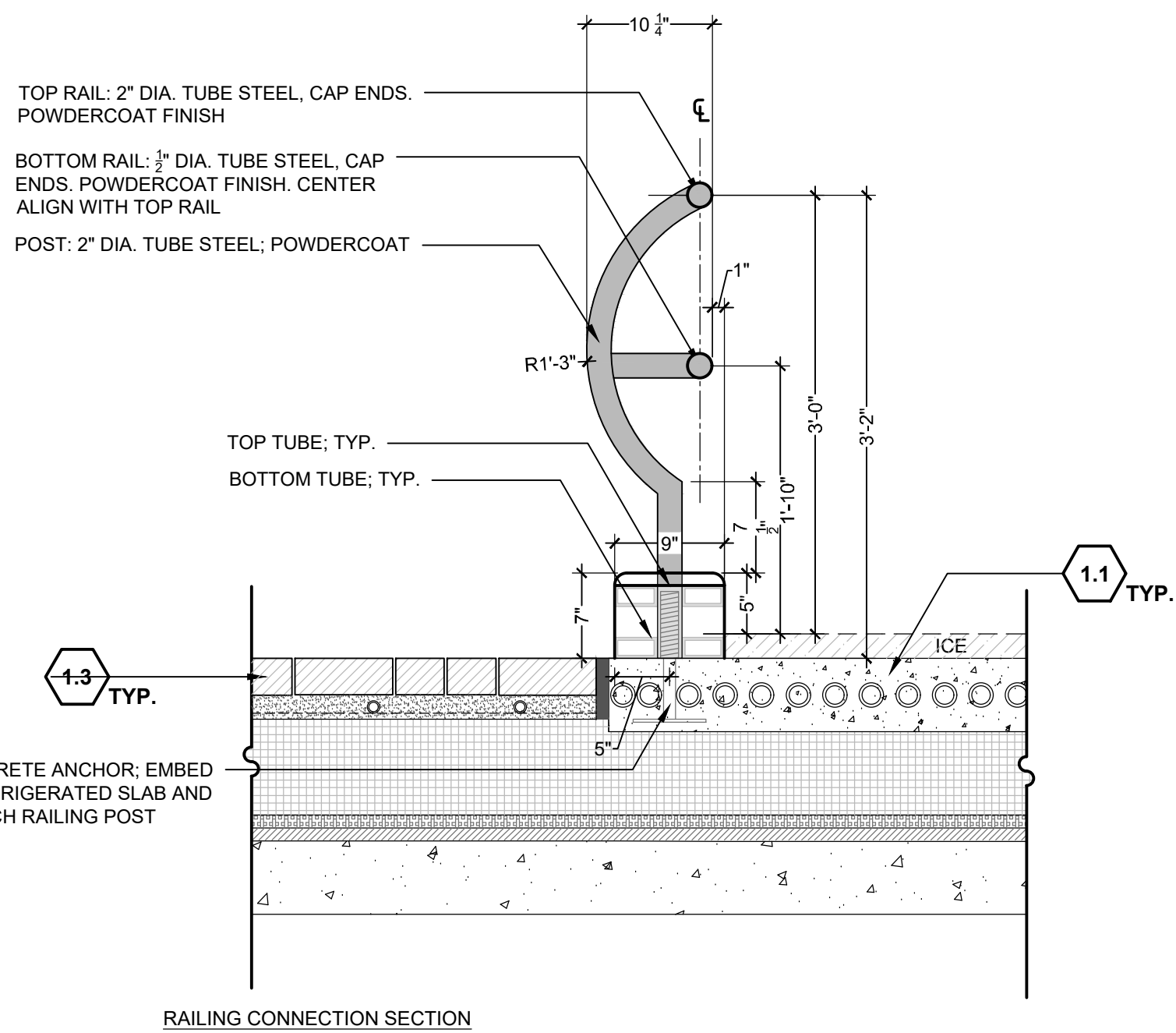
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Description

BP3: PROMENADE - ISSUE FOR BID
AND PERMIT

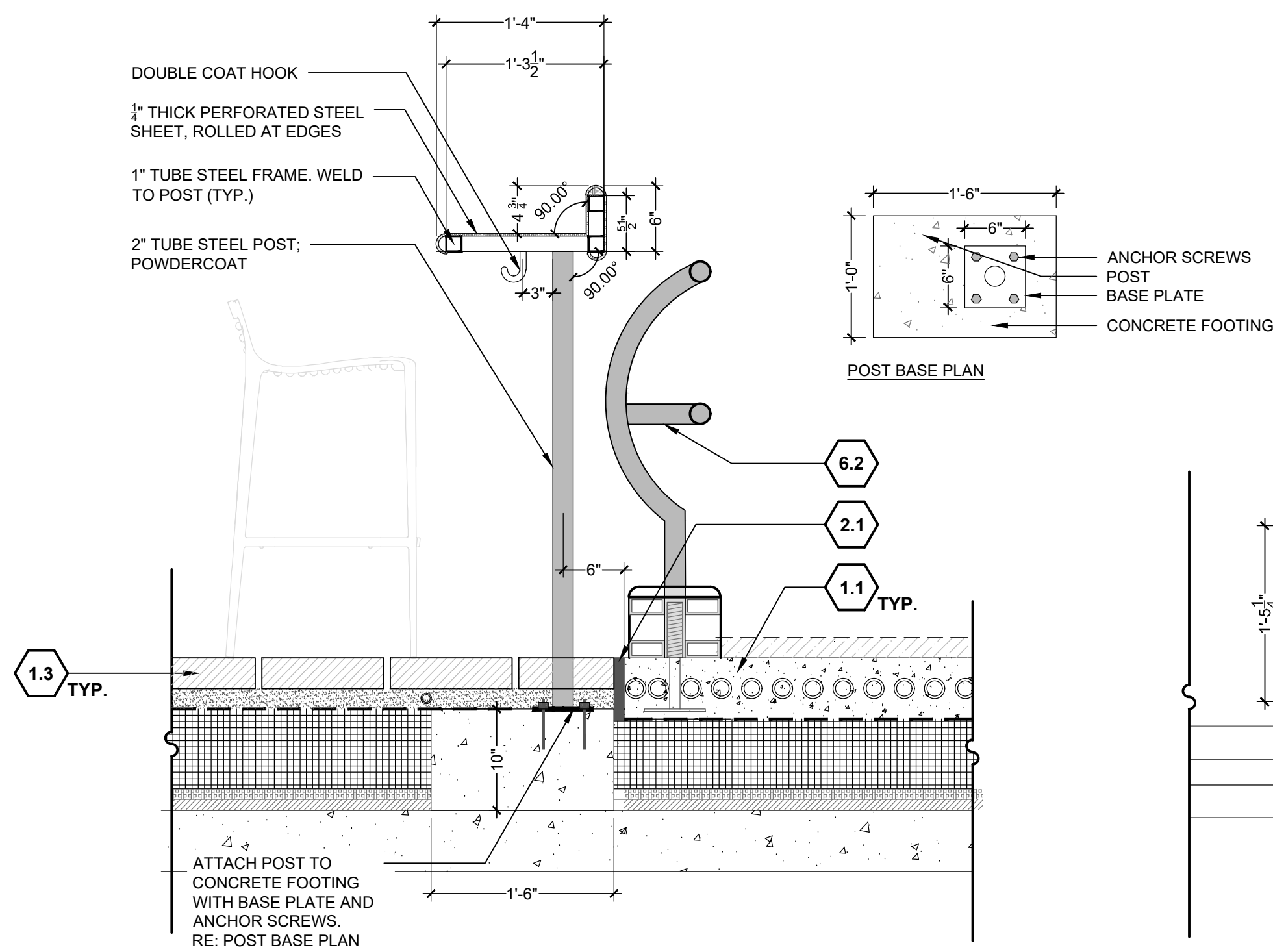
SITE
DETAILS

1A-L7-04

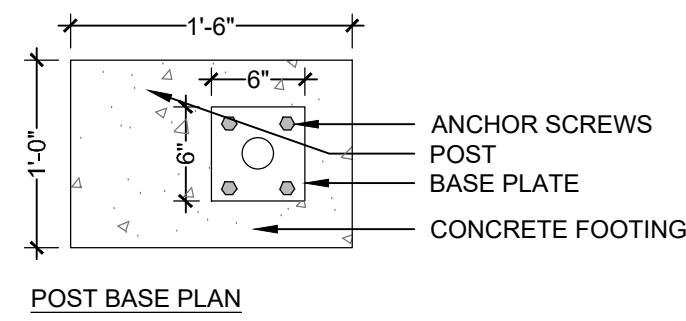


1 Railing Type 2: At Ice Rink

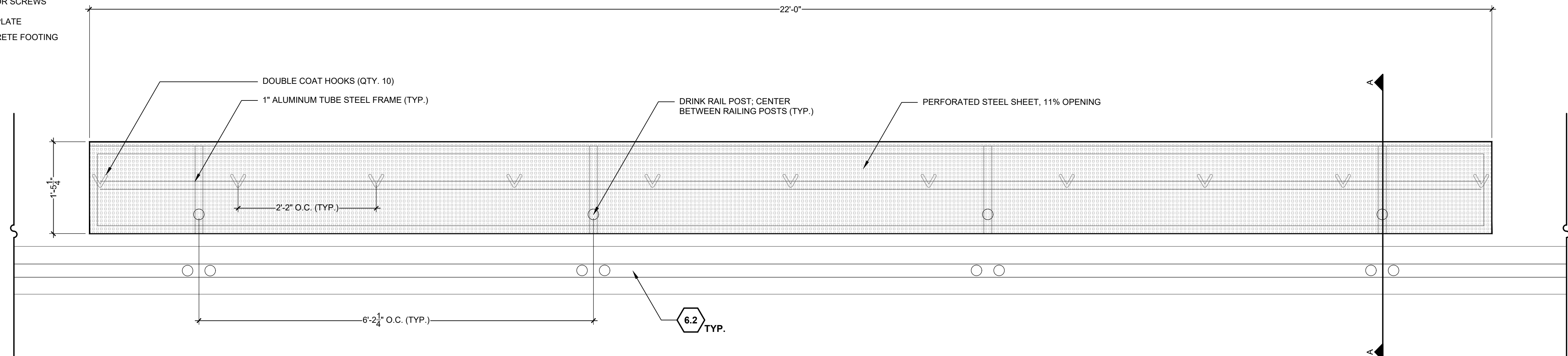
1"=1'-0"



SECTION AA



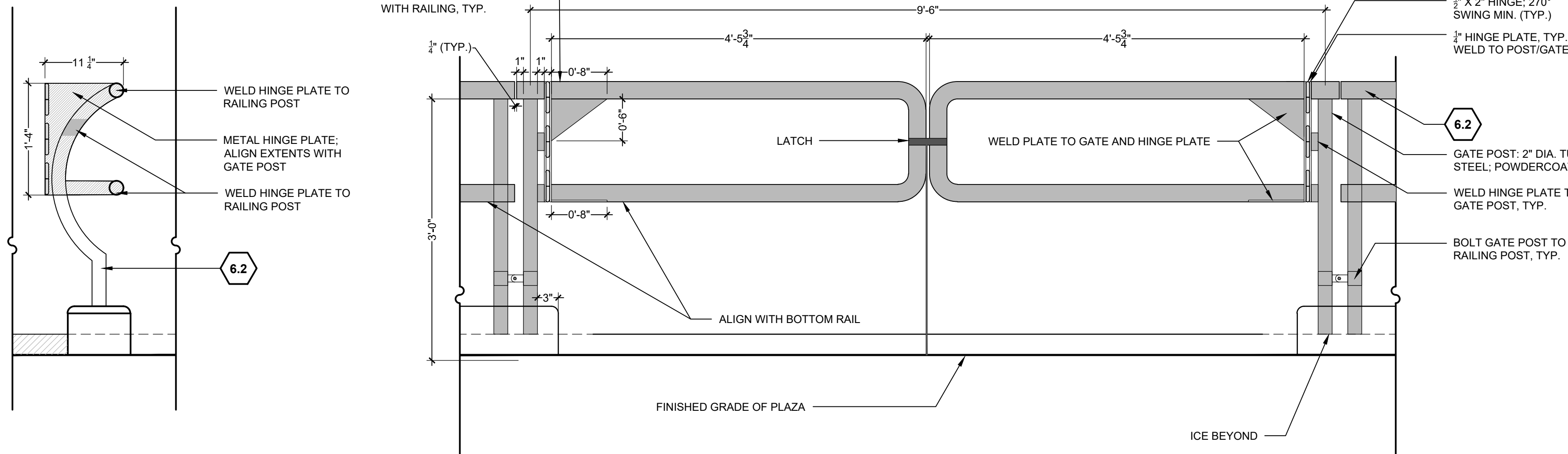
PLAN - TYPICAL PER DRINK RAIL SECTION



6.2

2 Railing Type 3: Drink Ledge

1"=1'-0"

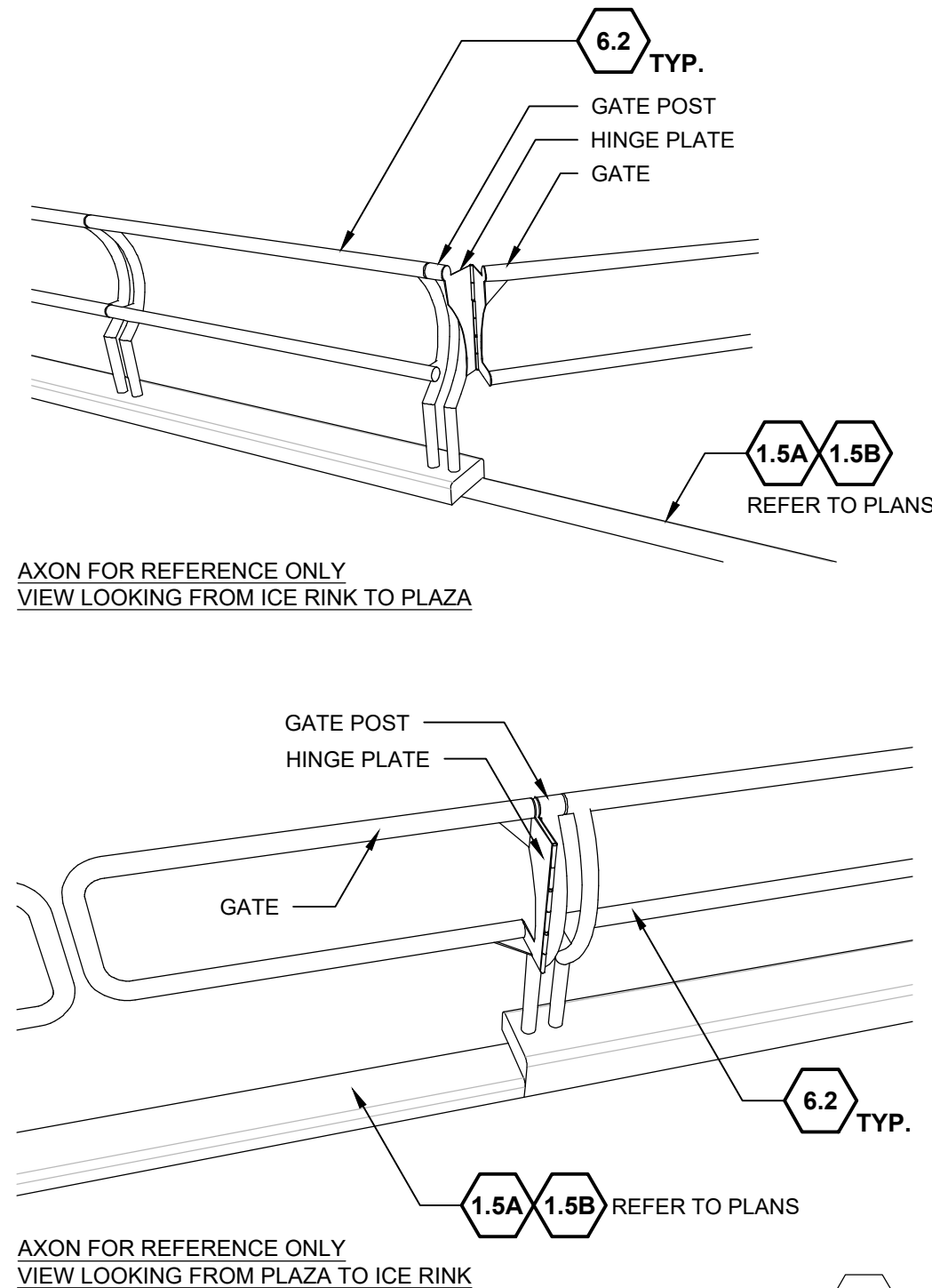


GATE POST ELEVATION

GATE ELEVATION

3 Ice Rink Gate - Double

1"=1'-0"

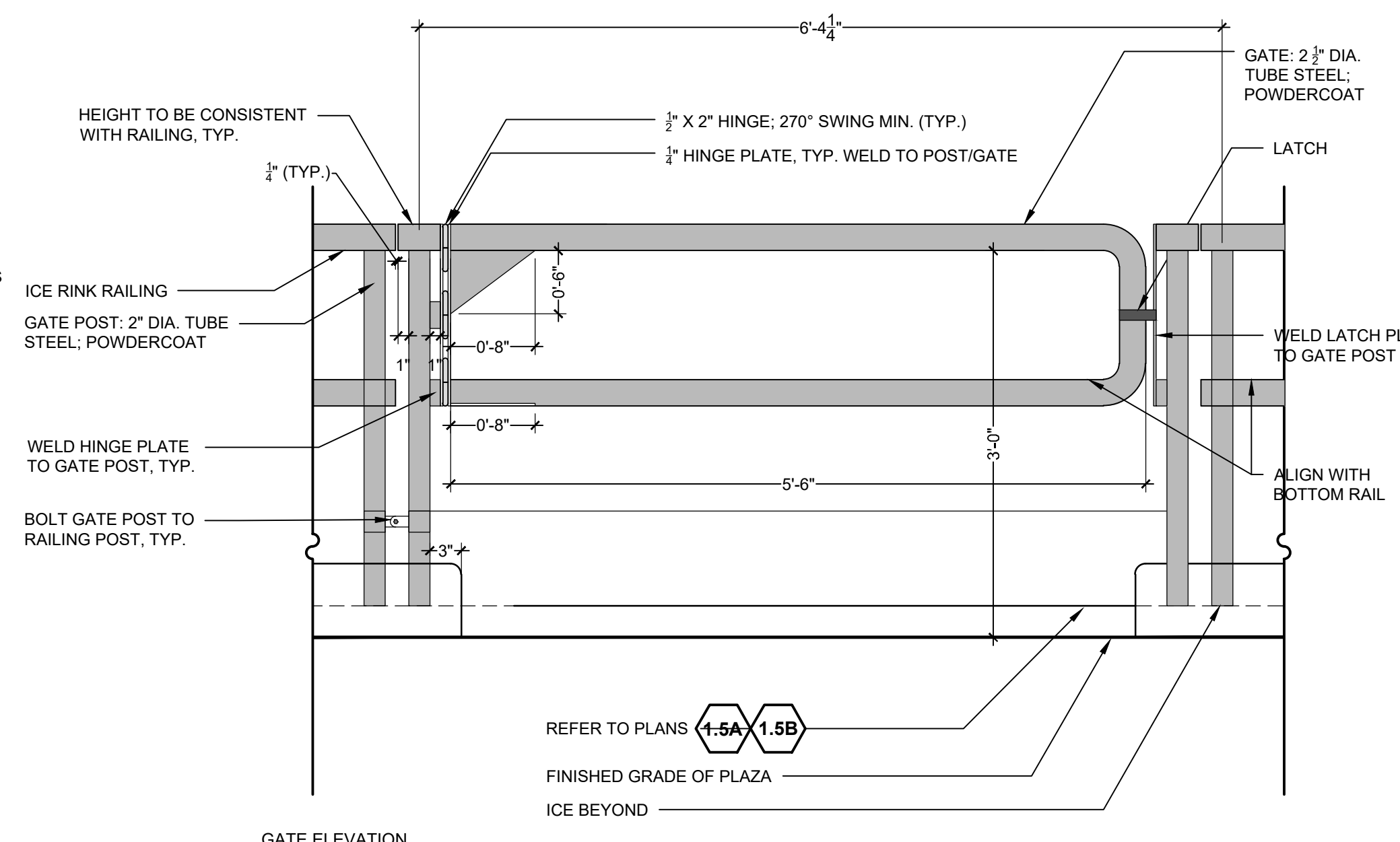


AXON FOR REFERENCE ONLY
VIEW LOOKING FROM PLAZA TO ICE RINK

AXON FOR REFERENCE ONLY
VIEW LOOKING FROM ICE RINK TO PLAZA

4 Ice Rink Gate - Single

1"=1'-0"



GATE ELEVATION

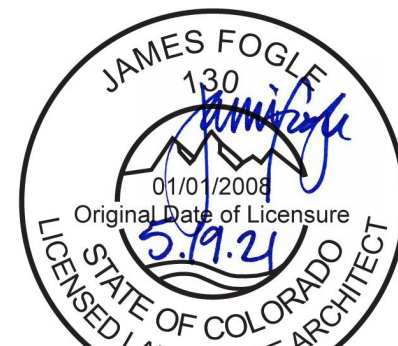
6.4B

SITE KEYNOTES:

DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS	
1.1	Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01 Ref Division 13
1.2	Unit Paving Type 1: At Grade	4 / 1A-L7-01 7.9/1A-L7-01 321400
1.3	Unit Paving Type 2: Over Structure	5 / 1A-L7-01 7.9/1A-L7-01 321400
1.4	Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01 7.9/1A-L7-01 321400
1.5A	Threshold at Ice Rink: Over Structure	2 / 1A-L7-01 321400
1.5B	Threshold at Ice Rink: At Grade	3 / 1A-L7-01 321400
2.0	JOINTING	
2.1	Expansion Joint	8 / 1A-L7-01 321373
2.2	Sand Joint	10 / 1A-L7-01 321400
3.0	STEPS	
3.1	Stairs Type 1: at Elevated Plaza	1 / 1A-L7-02 033000
3.2	Stairs Type 2: At Promenade Building	2 / 1A-L7-02 033000
3.3	Seating Steps at Elevated Plaza	3 / 1A-L7-02 033000
4.0	SITE WALLS/ EMBANKMENTS	
4.1	Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03 033000
4.2	Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03 2/1A-L7-08 Ref Arch: Exterior Stone ST1 033000
4.3	Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04 Ref Arch: Exterior Stone ST1 033000
5.0	SITE FURNITURE	
5.1	Refer to Site Furnishings Series	
5.2	Fire Bowl	103000
5.3	Trash Receptacle	By Owner
5.3	Planter Pots	323300
6.0	RAILINGS, BARRIERS, FENCING	
6.1	Railing Type 1: At Stairs	2 / 1A-L7-04 055213
6.2	Railing Type 2: At Ice Rink	1 / 1A-L7-05 323119
6.3	Railing Type 3: Drink Ledge	2 / 1A-L7-05 323119
6.4A	Ice Rink Gate: Double	3 / 1A-L7-05 323119
6.4B	Ice Rink Gate: Single	4 / 1A-L7-05 323119
7.0	SITE LIGHTING	
7.1	Refer to Site Lighting Series	
7.2	Tree Mounted Lighting (Type F8)	Ref Electric 1/1A-L7-10 Ref Electric
7.2	Light Pole Fountain Under Pavers	Ref Electric 2/1A-L7-10 Ref Electric
8.0	DRAINAGE	
8.0	Refer to Civil Drawings	
9.0	PLANTING AND LANDSCAPE	
9.0	Refer to Tree Planting and Shrub and Groundcover Series Drawings	
10.0	MISCELLANEOUS ELEMENTS	
10.1	Fire Pit	1 / 1A-L7-06 2/1A-L7-06 103000
10.2	Bench: Type 1	1 / 1A-L7-07 055000/ 061083

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

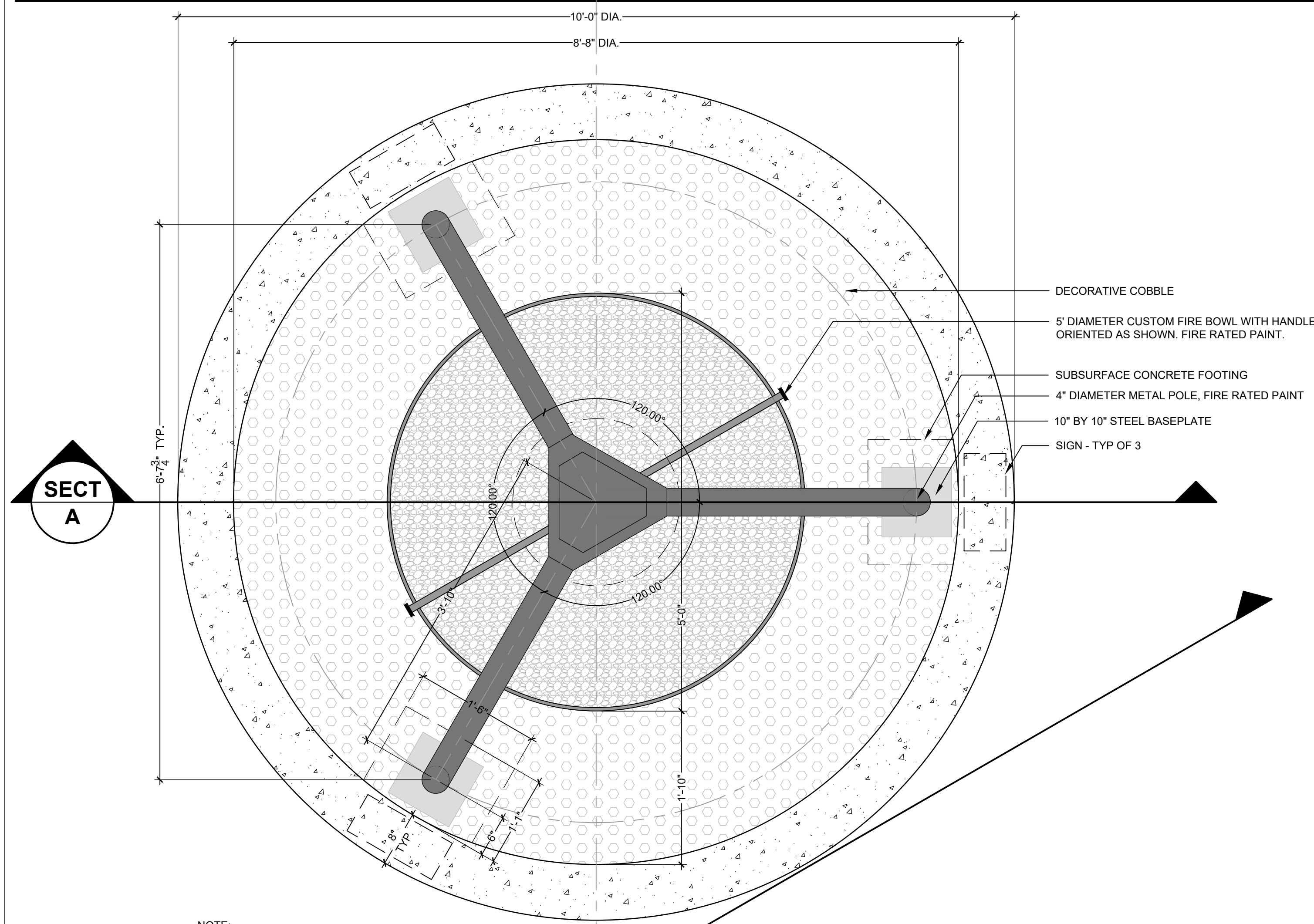
Seal / Signature



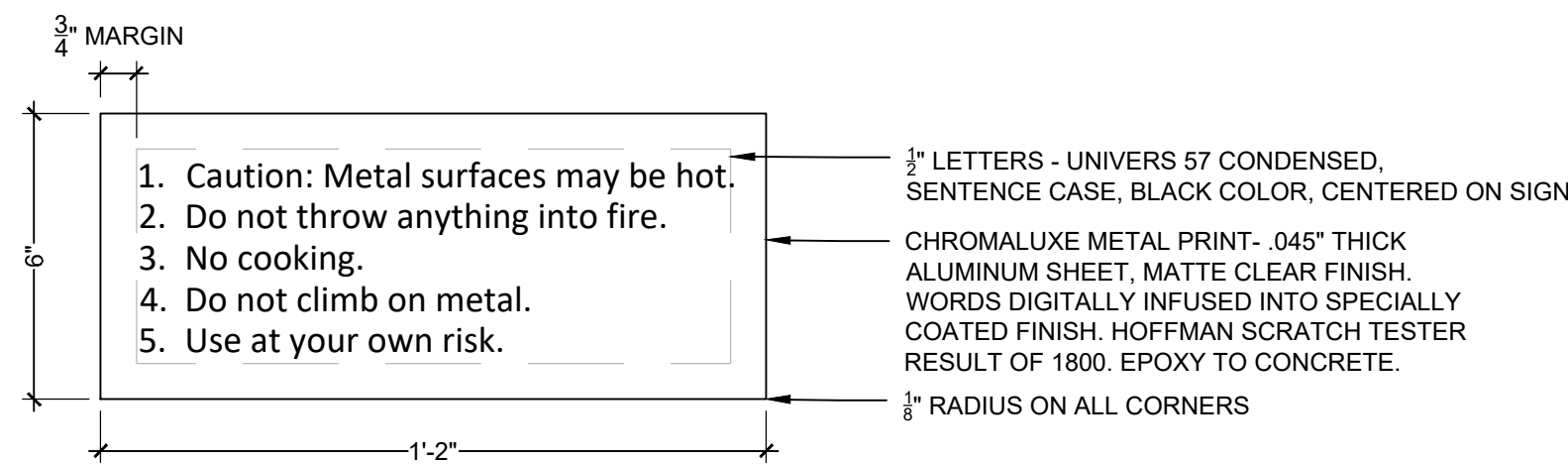
Project Name	BP3C PROMENADE PERMIT AND CONSTRUCTION
Project Number	003.7835.000
DW Project Number	6466
Description	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

SITE DETAILS

1A-L7-05

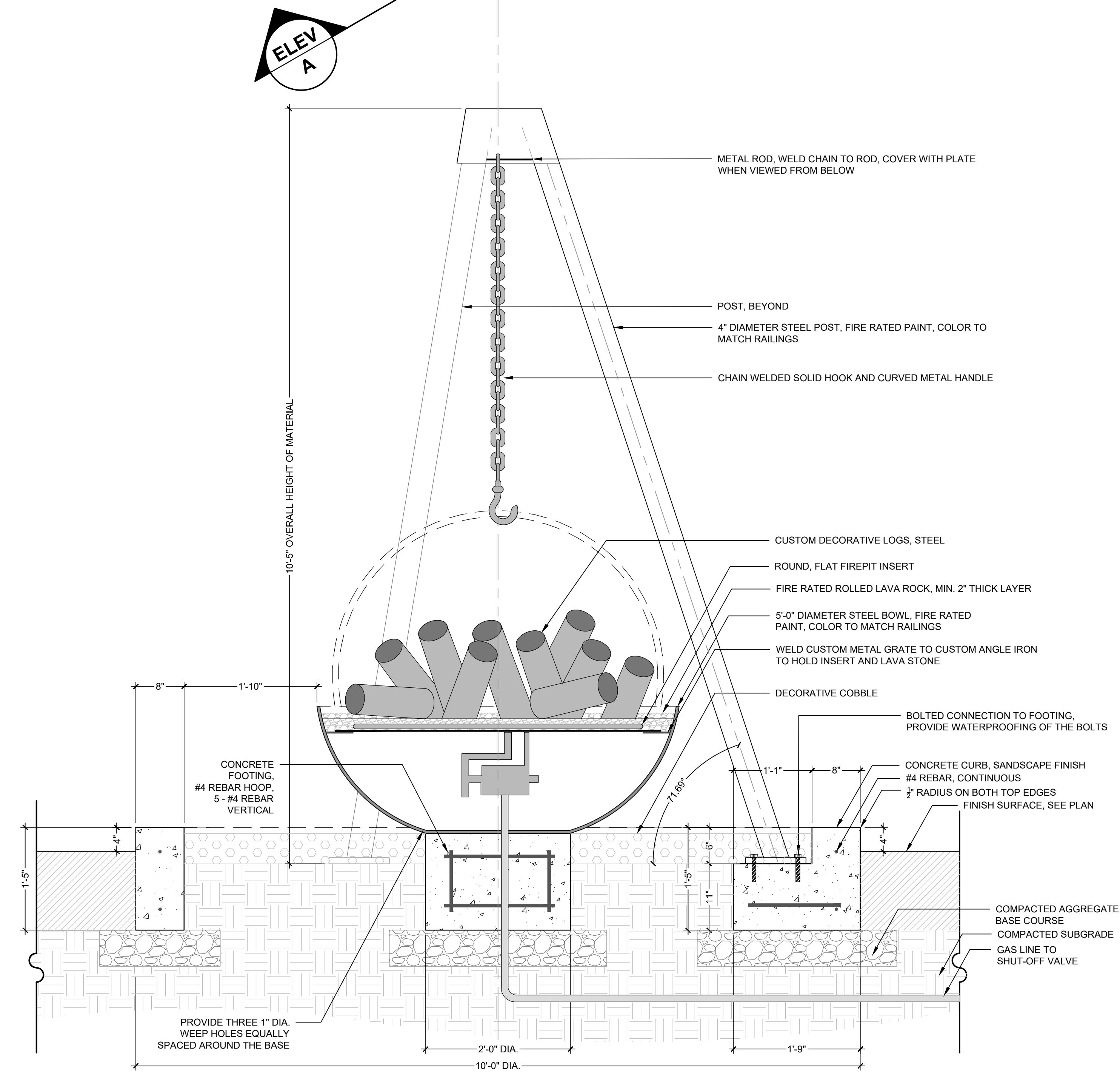


2 Firepit Rules Sign



NOTE:
Provide shop drawings, product submittals and signage.

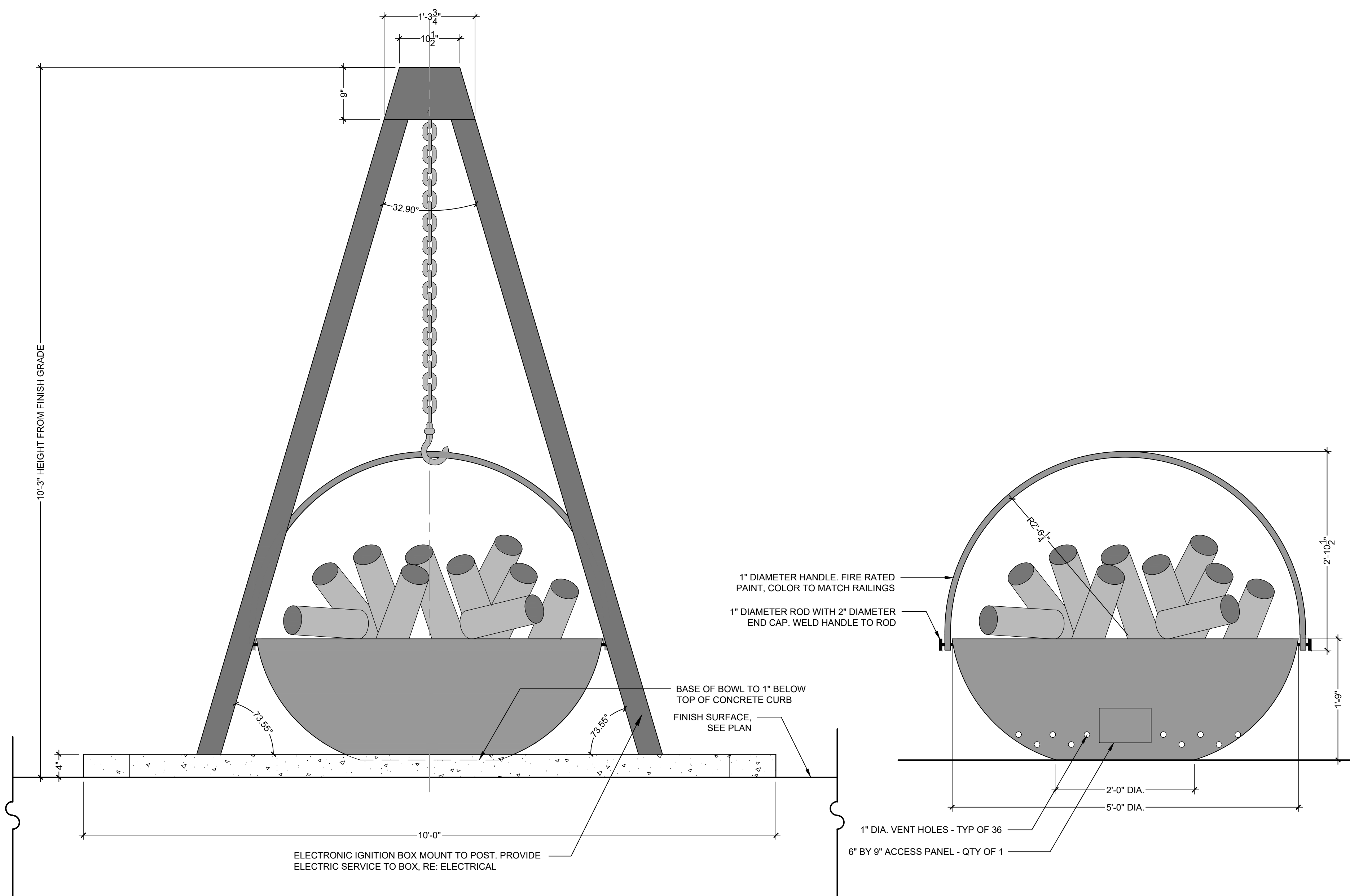
PLAN



SECTION A

1 Firepit

3/4"=1'-0"



ELEVATION A

BOWL DIMENSIONS

SAME ORIENTATION AS ELEVATION A

SITE KEYNOTES:

DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0 PAVEMENTS, RAMPS, CURBS		
1.1 Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01	Ref Division 13
1.2 Unit Paving Type 1: At Grade	4 / 1A-L7-01	7.9/1A-L7-01 321400
1.3 Unit Paving Type 2: Over Structure	5 / 1A-L7-01	7.9/1A-L7-01 321400
1.4 Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01	7.9/1A-L7-01 321400
1.5A Threshold at Ice Rink: Over Structure	2 / 1A-L7-01	321400
1.5B Threshold at Ice Rink: At Grade	3 / 1A-L7-01	321400
2.0 JOINTING		
2.1 Expansion Joint	8 / 1A-L7-01	321373
2.2 Sand Joint	10 / 1A-L7-01	321400
3.0 STEPS		
3.1 Stairs Type 1: at Elevated Plaza	1 / 1A-L7-02	033000
3.2 Stairs Type 2: At Promenade Building	2 / 1A-L7-02	033000
3.3 Seating Steps at Elevated Plaza	3 / 1A-L7-02	033000
4.0 SITE WALLS/ EMBANKMENTS		
4.1 Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03	033000
4.2 Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03	2/1A-L7-08 033000
4.3 Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04	033000
	Ref Arch: Exterior Stone ST1	
5.0 SITE FURNITURE		
Refer to Site Furnishings Series		
5.1 Fire Bowl		103000
5.2 Trash Receptacle		By Owner
5.3 Planter Pots		323300
6.0 RAILINGS, BARRIERS, FENCING		
6.1 Railing Type 1: At Stairs	2 / 1A-L7-04	055213
6.2 Railing Type 2: At Ice Rink	1 / 1A-L7-05	323119
6.3 Railing Type 3: Drink Ledge	2 / 1A-L7-05	323119
6.4A Ice Rink Gate: Double	3 / 1A-L7-05	323119
6.4B Ice Rink Gate: Single	4 / 1A-L7-05	323119
7.0 SITE LIGHTING		
Refer to Site Lighting Series		
7.1 Tree Mounted Lighting (Type F8)	Ref Electric	1/1A-L7-10 Ref Electric
7.2 Light Pole Fountain Under Pavers	Ref Electric	2/1A-L7-10 Ref Electric
8.0 DRAINAGE		
Refer to Civil Drawings		
9.0 PLANTING AND LANDSCAPE		
Refer to Tree Planting and Shrub and Groundcover Series Drawings		
10.0 MISCELLANEOUS ELEMENTS		
10.1 Fire Pit	1 / 1A-L7-06	2/1A-L7-06 103000
10.2 Bench: Type 1	1 / 1A-L7-07	055000/ 061083

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States

Tel 303.595.8585
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186



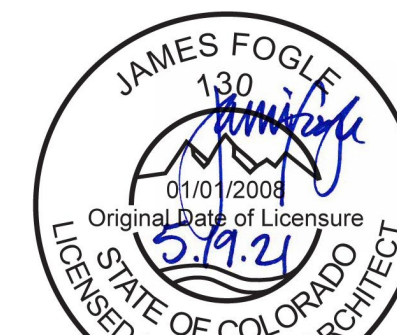
12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100



14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

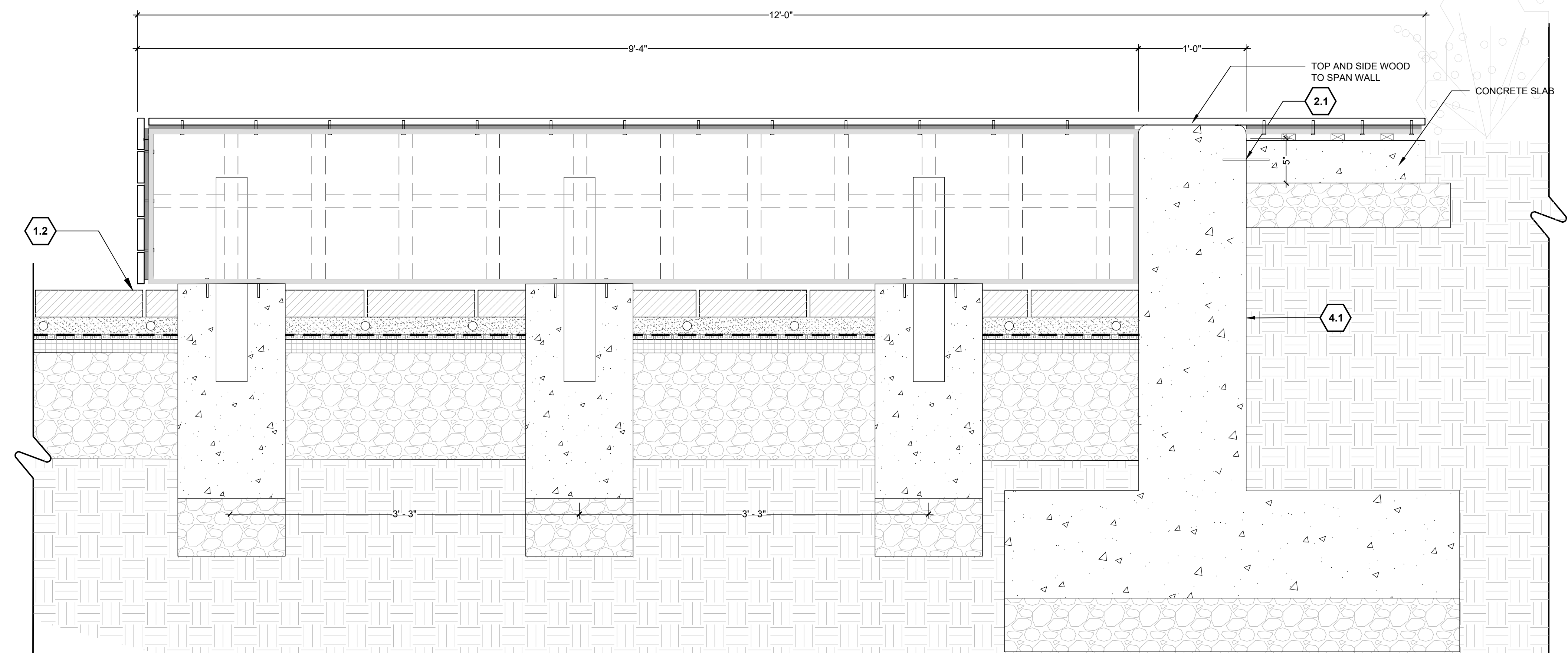
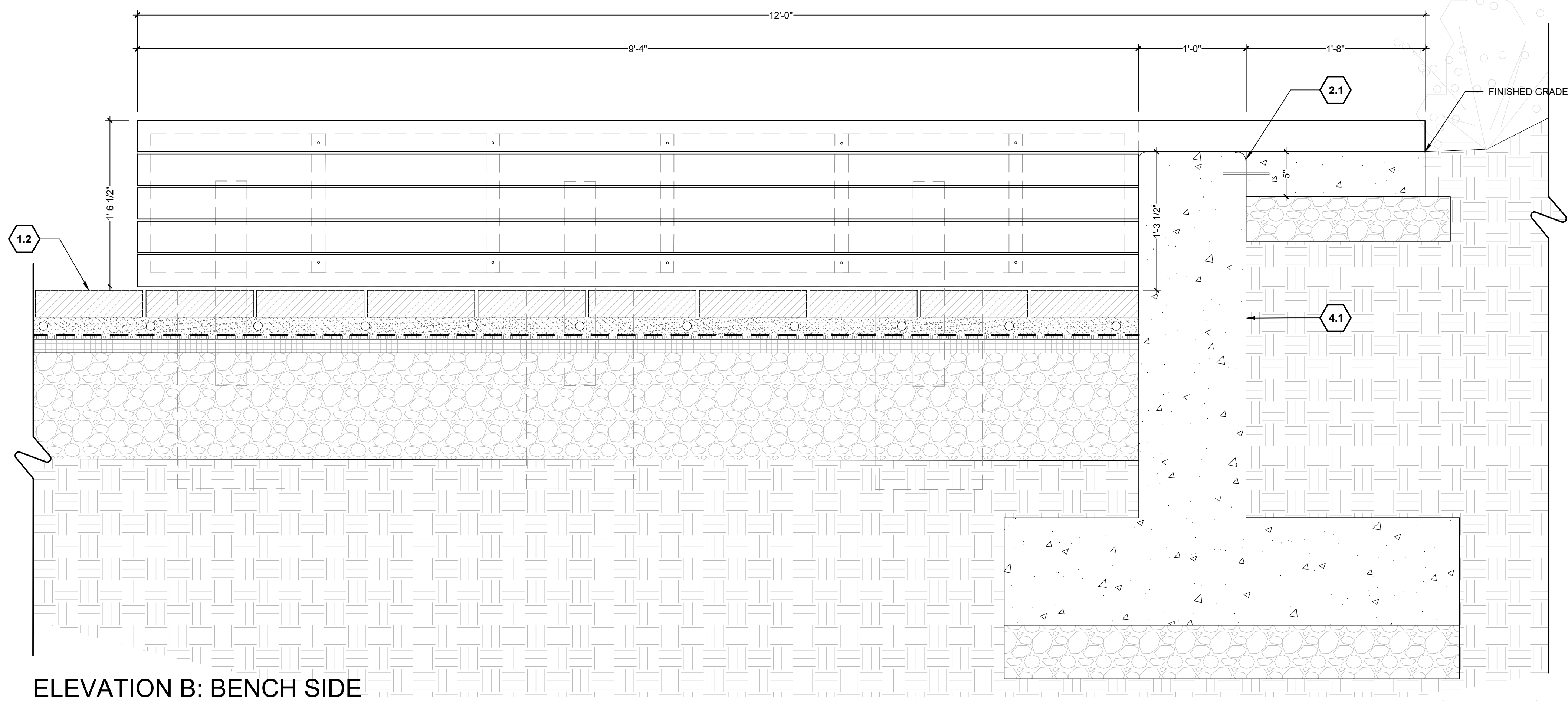
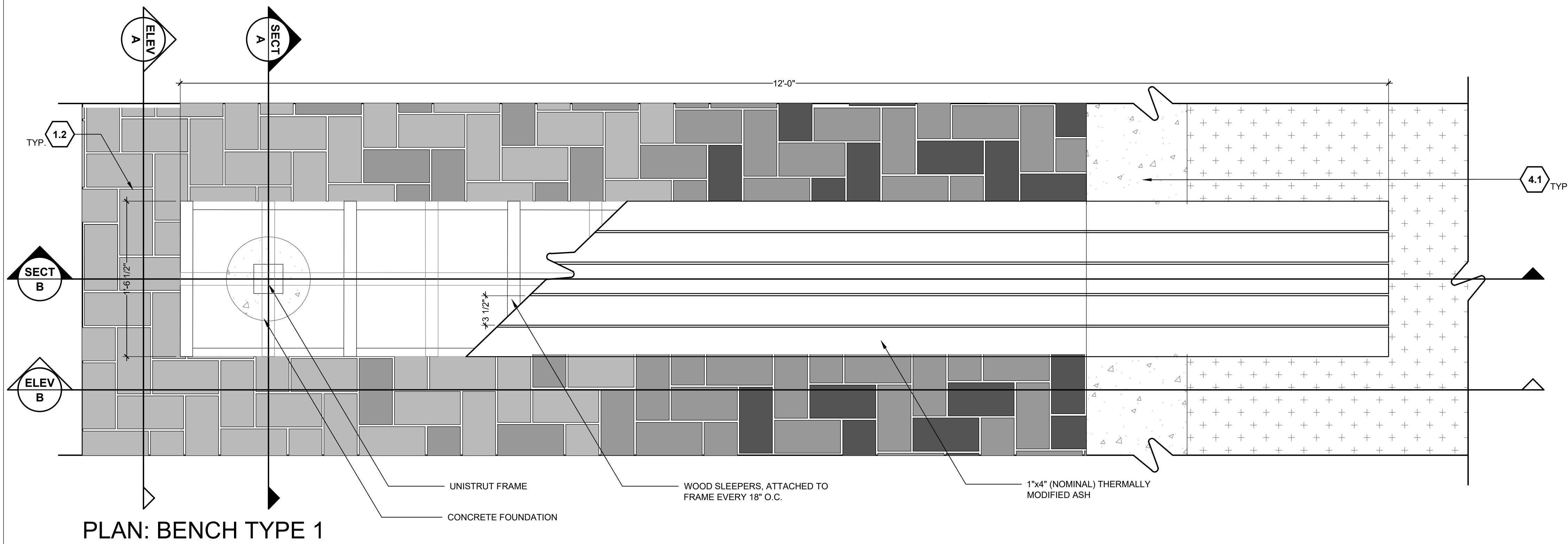
Seal / Signature



Project Name	BP3C PROMENADE PERMIT AND CONSTRUCTION
Project Number	003.7835.000
DW Project Number	6466
Description	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

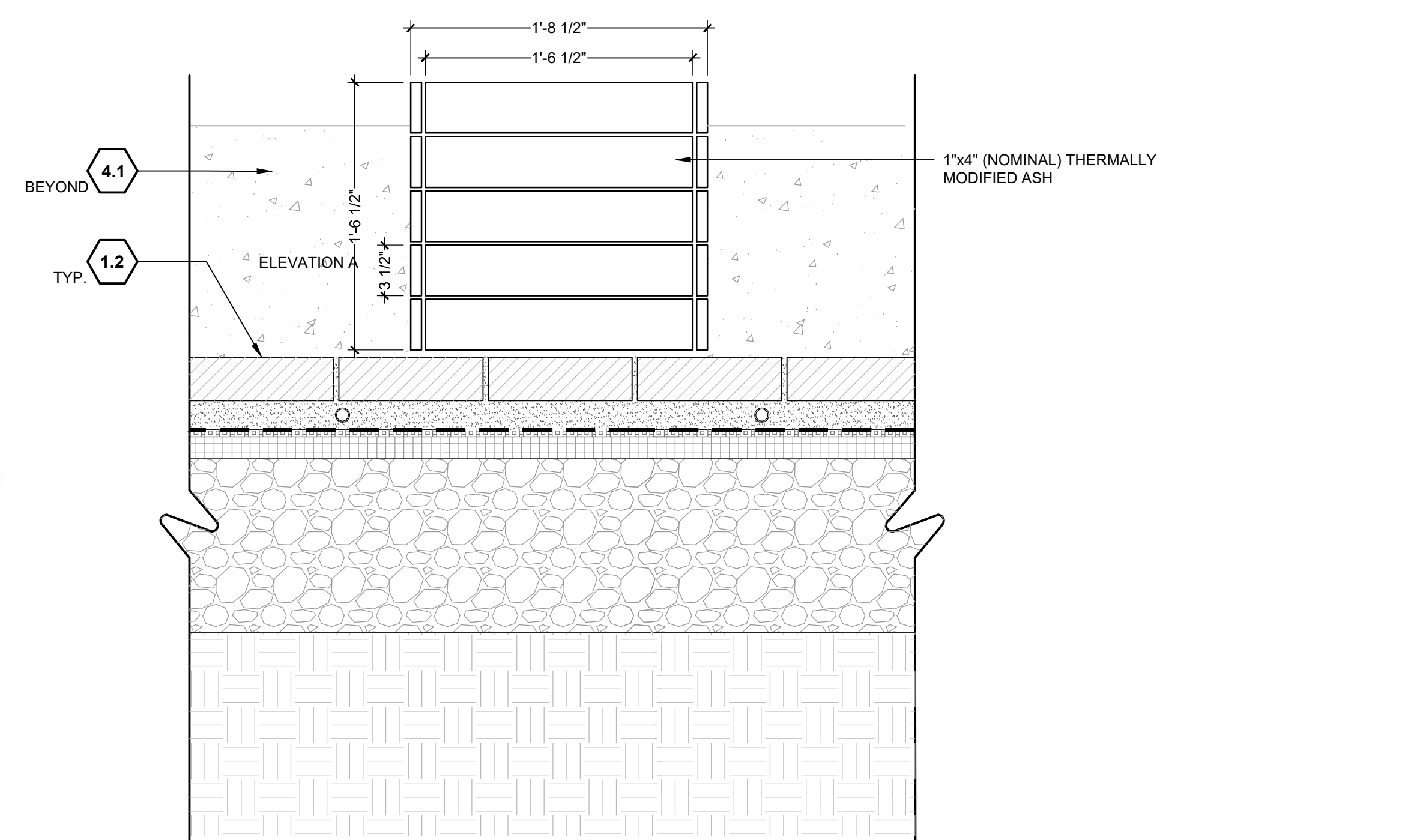
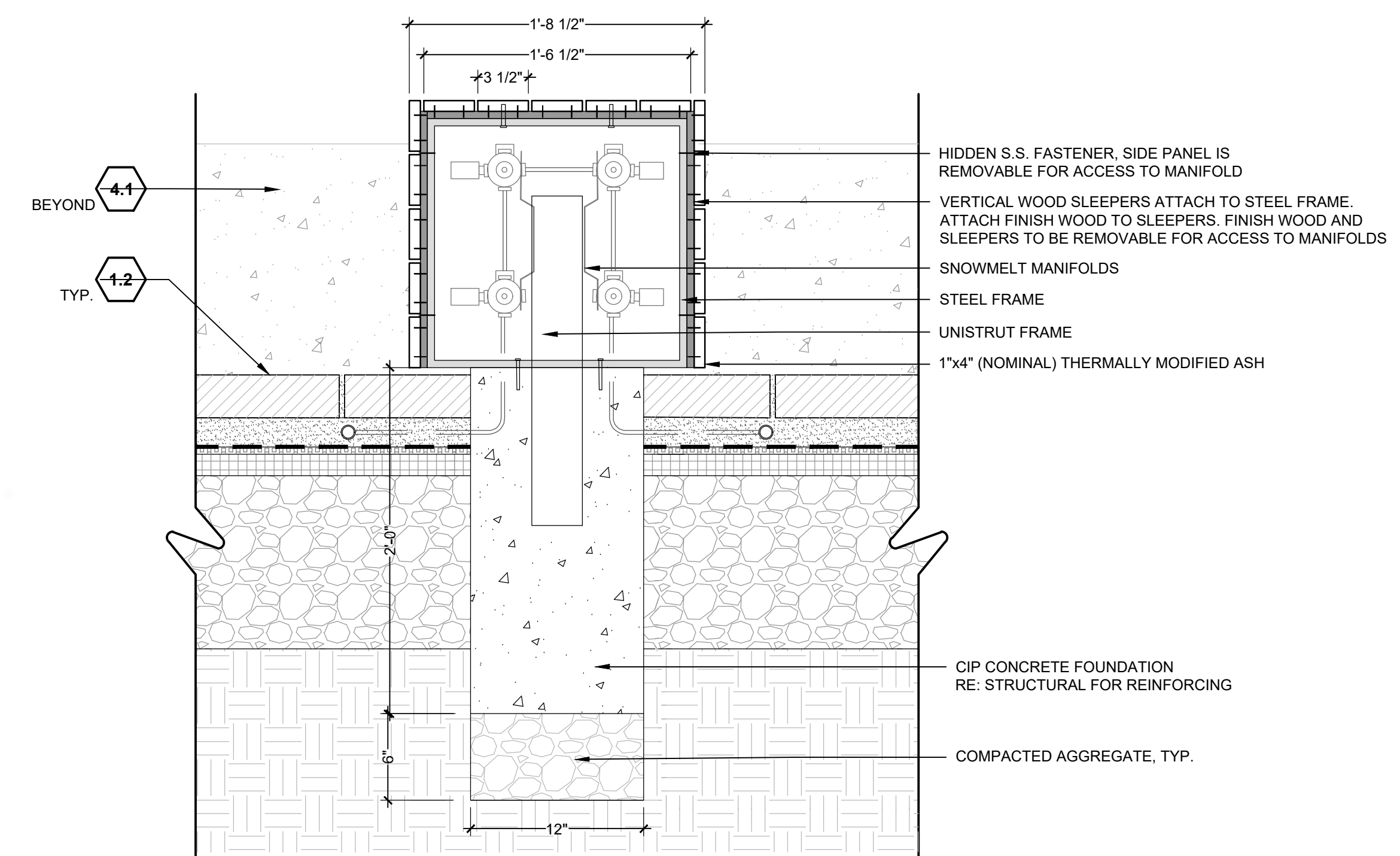
SITE DETAILS

1A-L7-06



1 Bench Type 1
1" = 1'-0"

SITE KEYNOTES:	DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0 PAVEMENTS, RAMPS, CURBS 1.1 Concrete Paving at Ice Rink: Refrigerated Slab 1.2 Unit Paving Type 1: At Grade 1.3 Unit Paving Type 2: Over Structure 1.4 Unit Paving Type 3: At Elevated Plaza 1.5A Threshold at Ice Rink: Over Structure 1.5B Threshold at Ice Rink: At Grade	1 / 1A-L7-01 4 / 1A-L7-01 5 / 1A-L7-01 6 / 1A-L7-01 2 / 1A-L7-01 3 / 1A-L7-01	Ref Division 13 7.9/1A-L7-01 7.9/1A-L7-01 7.9/1A-L7-01 7.9/1A-L7-01 7.9/1A-L7-01	321400 321400 321400 321400 321400 321400
2.0 JOINTING 2.1 Expansion Joint 2.2 Sand Joint	8 / 1A-L7-01 10 / 1A-L7-01		321373 321400
3.0 STEPS 3.1 Stairs Type 1: at Elevated Plaza 3.2 Stairs Type 2: At Promenade Building 3.3 Seating Steps at Elevated Plaza	1 / 1A-L7-02 2 / 1A-L7-02 3 / 1A-L7-02		033000 033000 033000
4.0 SITE WALLS/ EMBANKMENTS 4.1 Wall Type 1: Concrete Planter Walls 4.2 Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade 4.3 Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-03 2 / 1A-L7-03 1 / 1A-L7-04	2 / 1A-L7-08 Ref Arch: Exterior Stone ST1 Ref Arch: Exterior Stone ST1	033000 033000 033000
5.0 SITE FURNITURE Refer to Site Furnishings Series 5.1 Fire Bowl 5.2 Trash Receptacle 5.3 Planter Pots			103000 By Owner 323300
6.0 RAILINGS, BARRIERS, FENCING 6.1 Railing Type 1: At Stairs 6.2 Railing Type 2: At Ice Rink 6.3 Railing Type 3: Drink Ledge 6.4A Ice Rink Gate: Double 6.4B Ice Rink Gate: Single	2 / 1A-L7-04 1 / 1A-L7-05 2 / 1A-L7-05 3 / 1A-L7-05 4 / 1A-L7-05		055213 323119 323119 323119 323119
7.0 SITE LIGHTING Refer to Site Lighting Series 7.1 Tree Mounted Lighting (Type F8) 7.2 Light Pole Fountain Under Pavers		Ref Electric Ref Electric	1 / 1A-L7-10 2 / 1A-L7-10 Ref Electric
8.0 DRAINAGE Refer to Civil Drawings			
9.0 PLANTING AND LANDSCAPE Refer to Tree Planting and Shrub and Groundcover Series Drawings			
10.0 MISCELLANEOUS ELEMENTS 10.1 Fire Pit 10.2 Bench: Type 1	1 / 1A-L7-06 1 / 1A-L7-07	2 / 1A-L7-06 055000/ 061083	103000 055000/ 061083



10.2

Steamboat
ALTERRA east west partners
 MOUNTAIN COMPANY

2305 Mount Werner Circle
 Steamboat Springs, CO 80487

Gensler
 1225 17th Street
 Suite 150
 Denver, CO 80202
 United States
 Tel 303.595.8886
 Fax 303.625.6823

LANDMARK
 CONSULTANTS, INC.
 141 9th Street
 PO Box 774943
 Steamboat Springs, CO 80477
 Tel 970.871.9494

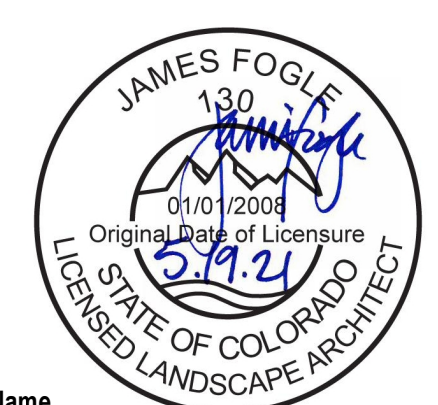
DESIGNWORKSHOP
 1390 Lawrence Street
 Suite 100
 Denver, CO 80204
 Tel 303.623.5186

MARTIN/MARTIN
 CONSULTANTS, P.C.
 1499 West Colfax Ave.
 Lakewood, CO 80215
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 Tel 303.431.6100

me
 engineers
 14143 Denver West Pkwy
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 Tel 303.421.6655

Date	Description
2021.05.19	BP3C PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



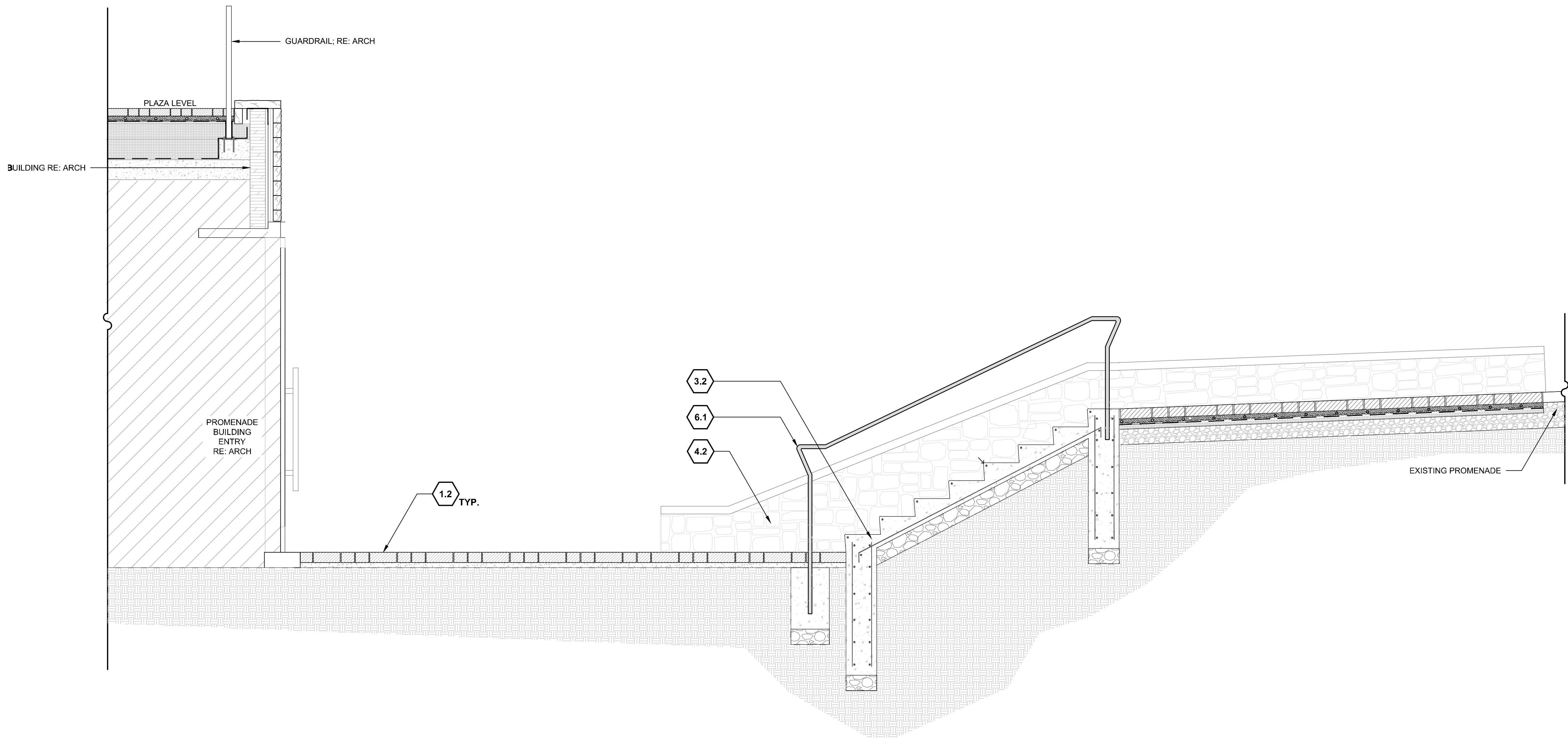
Project Name
BP3C PROMENADE PERMIT AND CONSTRUCTION

Project Number
003.7835.000

DW Project Number
6466

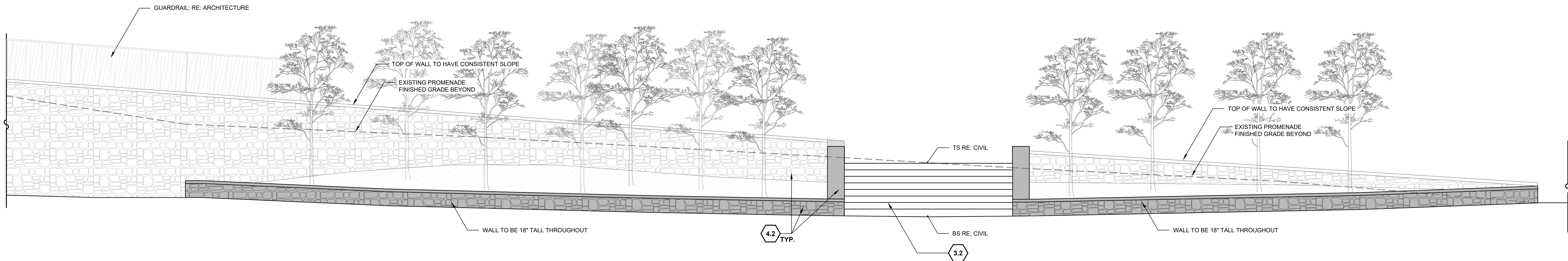
Description
 BP3: PROMENADE - ISSUE FOR BID AND PERMIT

SITE DETAILS
1A-L7-07



1 Promenade Building and Wall Section

1/2" = 1'-0"



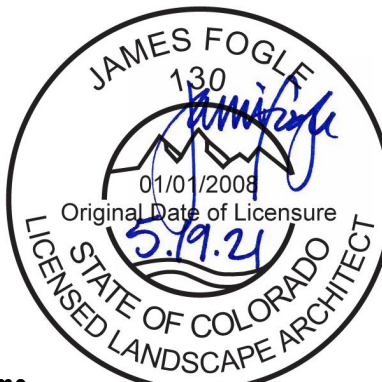
1 Promenade Wall Elevation Looking East

1/4" = 1'-0"

SITE KEYNOTES:			
	DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS		
1.1	Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01	Ref Division 13
1.2	Unit Paving Type 1: At Grade	4 / 1A-L7-01	7.9/1A-L7-01 321400
1.3	Unit Paving Type 2: Over Structure	5 / 1A-L7-01	7.9/1A-L7-01 321400
1.4	Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01	7.9/1A-L7-01 321400
1.5A	Threshold at Ice Rink: Over Structure	2 / 1A-L7-01	321400
1.5B	Threshold at Ice Rink: At Grade	3 / 1A-L7-01	321400
2.0	JOINTING		
2.1	Expansion Joint	8 / 1A-L7-01	321373
2.2	Sand Joint	10 / 1A-L7-01	321400
3.0	STEPS		
3.1	Stairs Type 1: at Elevated Plaza	1 / 1A-L7-02	033000
3.2	Stairs Type 2: At Promenade Building	2 / 1A-L7-02	033000
3.3	Seating Steps at Elevated Plaza	3 / 1A-L7-02	033000
4.0	SITE WALLS/ EMBANKMENTS		
4.1	Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03	033000
4.2	Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03	2/1A-L7-08 033000
4.3	Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04	033000
		Ref Arch: Exterior Stone ST1	
5.0	SITE FURNITURE		
	Refer to Site Furnishings Series		
5.1	Fire Bowl		103000
5.2	Trash Receptacle	By Owner	
5.3	Planter Pots		323300
6.0	RAILINGS, BARRIERS, FENCING		
6.1	Railing Type 1: At Stairs	2 / 1A-L7-04	055213
6.2	Railing Type 2: At Ice Rink	1 / 1A-L7-05	323119
6.3	Railing Type 3: Drink Ledge	2 / 1A-L7-05	323119
6.4A	Ice Rink Gate: Double	3 / 1A-L7-05	323119
6.4B	Ice Rink Gate: Single	4 / 1A-L7-05	323119
7.0	SITE LIGHTING		
	Refer to Site Lighting Series		
7.1	Tree Mounted Lighting (Type F8)	Ref Electric	1/1A-L7-10 Ref Electric
7.2	Light Pole Fountain Under Pavers	Ref Electric	2/1A-L7-10 Ref Electric
8.0	DRAINAGE		
	Refer to Civil Drawings		
9.0	PLANTING AND LANDSCAPE		
	Refer to Tree Planting and Shrub and Groundcover Series Drawings		
10.0	MISCELLANEOUS ELEMENTS		
10.1	Fire Pit	1 / 1A-L7-06	2/1A-L7-06 103000
10.2	Bench: Type 1	1 / 1A-L7-07	055000/ 061083

△ Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature

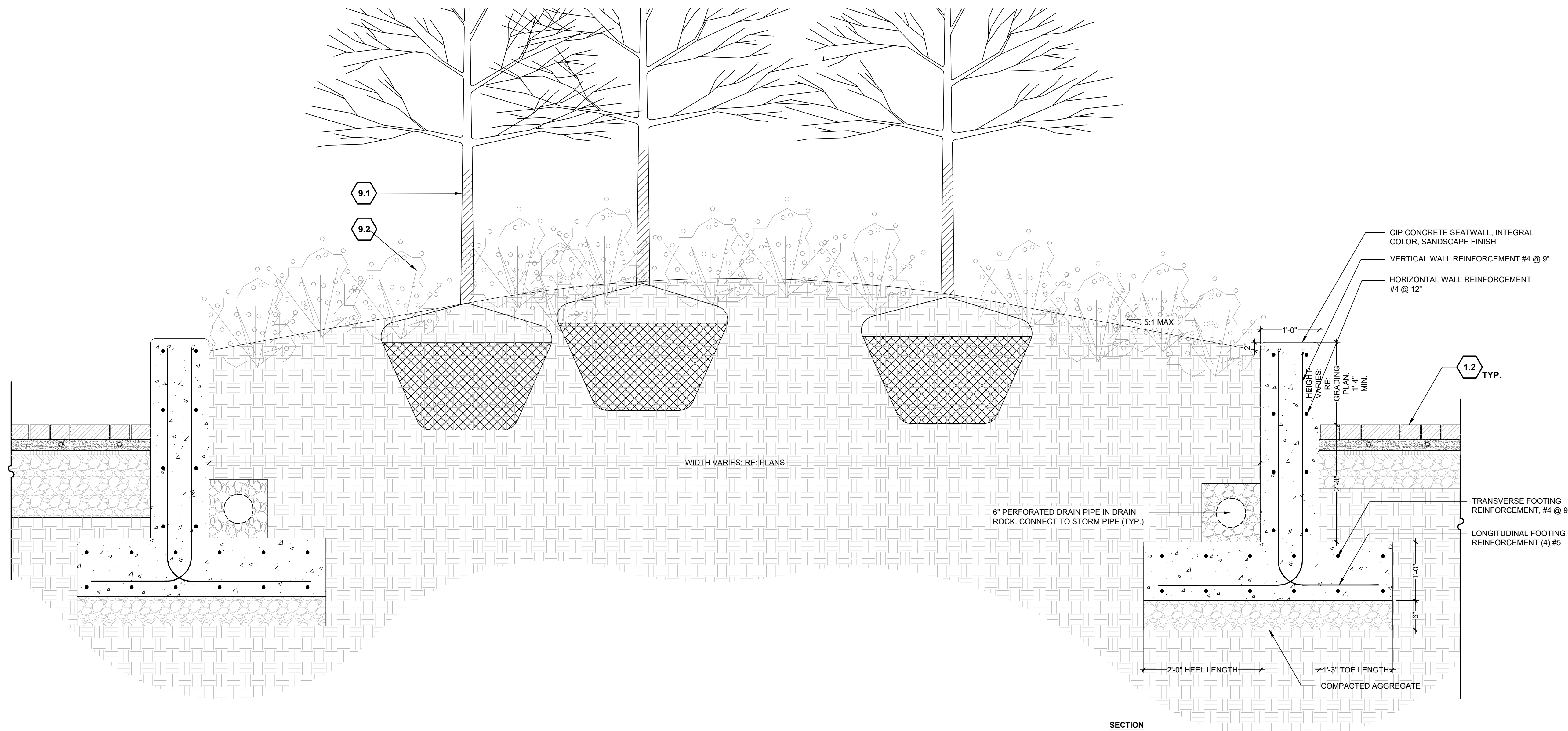


Project Name	
BP3C PROMENADE PERMIT AND CONSTRUCTION	
Project Number	DW Project Number
003.7835.000	6466
Description	
BP3: PROMENADE - ISSUE FOR BID AND PERMIT	

COMPOSITE
SECTIONS
1A-L7-08

2 Section Through Concrete Planter at Plaza

1"=1'-0"



SITE KEYNOTES:		DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0	PAVEMENTS, RAMPS, CURBS			
1.1	Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01	Ref Division 13	
1.2	Unit Paving Type 1: At Grade	4 / 1A-L7-01	7,9/1A-L7-01	321400
1.3	Unit Paving Type 2: Over Structure	5 / 1A-L7-01	7,9/1A-L7-01	321400
1.4	Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01	7,9/1A-L7-01	321400
1.5A	Threshold at Ice Rink: Over Structure	2 / 1A-L7-01		321400
1.5B	Threshold at Ice Rink: At Grade	3 / 1A-L7-01		321400
2.0	JOINTING			
2.1	Expansion Joint	8 / 1A-L7-01		321373
2.2	Sand Joint	10 / 1A-L7-01		321400
3.0	STEPS			
3.1	Stairs Type 1: at Elevated Plaza	1 / 1A-L7-02		033000
3.2	Stairs Type 2: At Promenade Building	2 / 1A-L7-02		033000
3.3	Seating Steps at Elevated Plaza	3 / 1A-L7-02		033000
4.0	SITE WALLS/ EMBANKMENTS			
4.1	Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03		033000
4.2	Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03	2/1A-L7-08	033000
4.3	Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04	Ref Arch: Exterior Stone ST1	033000
5.0	SITE FURNITURE			
	Refer to Site Furnishings Series			
5.1	Fire Bowl			103000
5.2	Trash Receptacle		By Owner	
5.3	Planter Pots			323300
6.0	RAILINGS, BARRIERS, FENCING			
6.1	Railing Type 1: At Stairs	2 / 1A-L7-04		055213
6.2	Railing Type 2: At Ice Rink	1 / 1A-L7-05		323119
6.3	Railing Type 3: Drink Ledge	2 / 1A-L7-05		323119
6.4A	Ice Rink Gate: Double	3 / 1A-L7-05		323119
6.4B	Ice Rink Gate: Single	4 / 1A-L7-05		323119
7.0	SITE LIGHTING			
	Refer to Site Lighting Series			
7.1	Tree Mounted Lighting (Type F8)	Ref Electric	1/1A-L7-10	Ref Electric
7.2	Light Pole Fountain Under Pavers	Ref Electric	2/1A-L7-10	Ref Electric
8.0	DRAINAGE			
	Refer to Civil Drawings			
9.0	PLANTING AND LANDSCAPE			
	Refer to Tree Planting and Shrub and Groundcover Series Drawings			
10.0	MISCELLANEOUS ELEMENTS			
10.1	Fire Pit	1 / 1A-L7-06	2/1A-L7-06	103000
10.2	Bench: Type 1	1 / 1A-L7-07	055000/ 061083	

ALTRERRA east west partners

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States

Tel 303.595.8585
Fax 303.625.6823

LANDMARK CONSULTANTS, INC.

141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

DESIGNWORKSHOP

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Tel 303.623.5186

me engineers

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Lakewood, CO 80215
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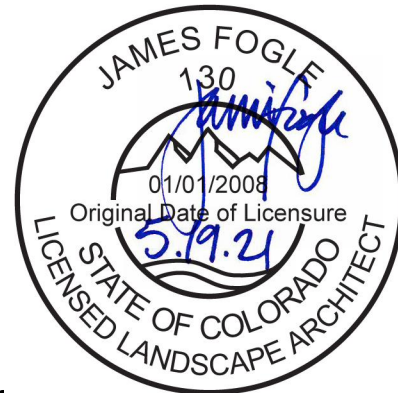
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Suite 300
Golden, CO
United States
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- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT



MAY 19, 2021
FOR RETAINING WALLS ONLY

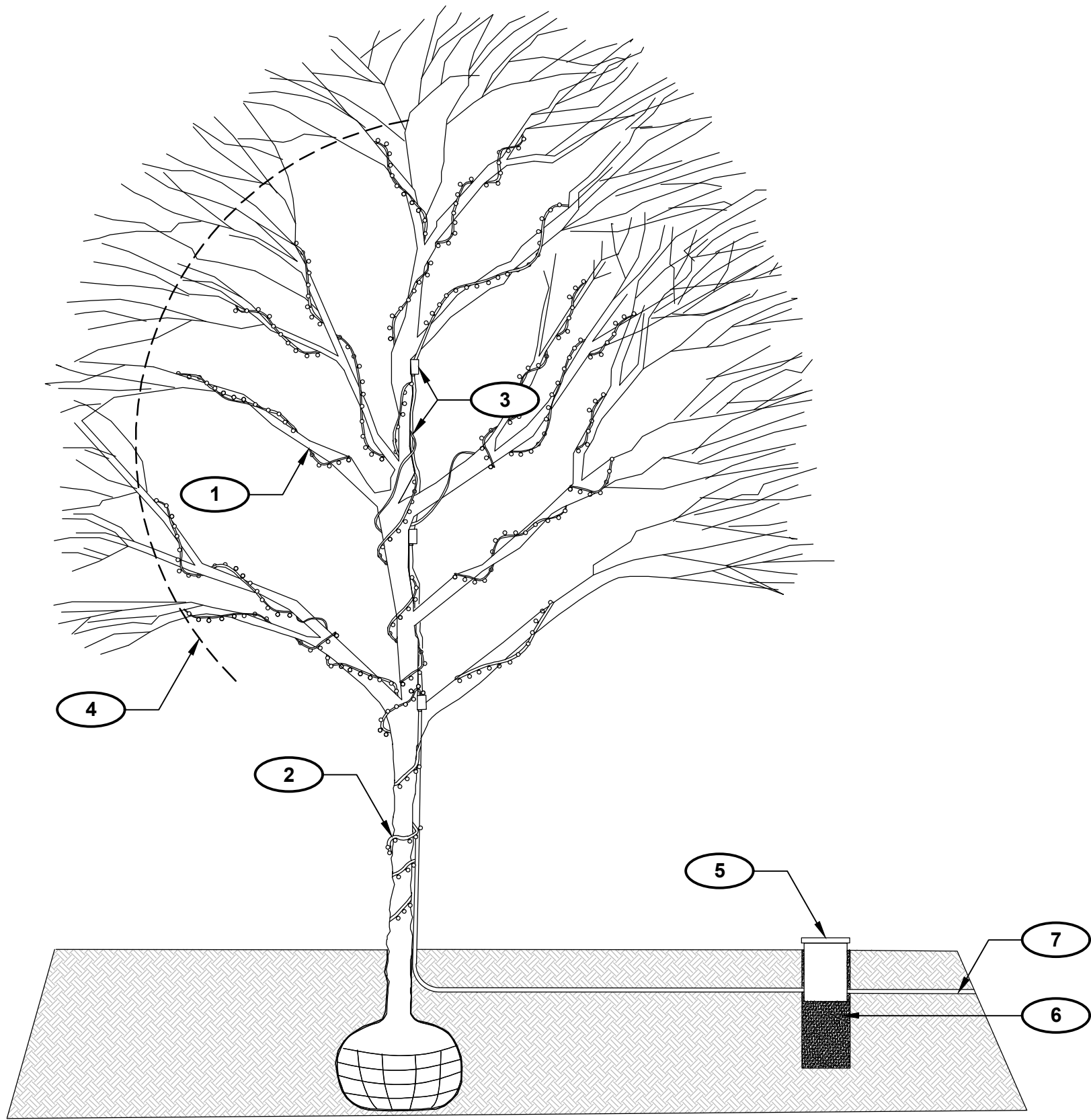
Seal / Signature



Project No:	
BP3C PROMENADE PERMIT AND CONSTRUCTION	
Project Number	DW Project Number
003.7835.000	6466
Description	
BP3: PROMENADE - ISSUE FOR BID AND PERMIT	

COMPOSITE SECTIONS

1A-L7-09



GENERAL NOTES:

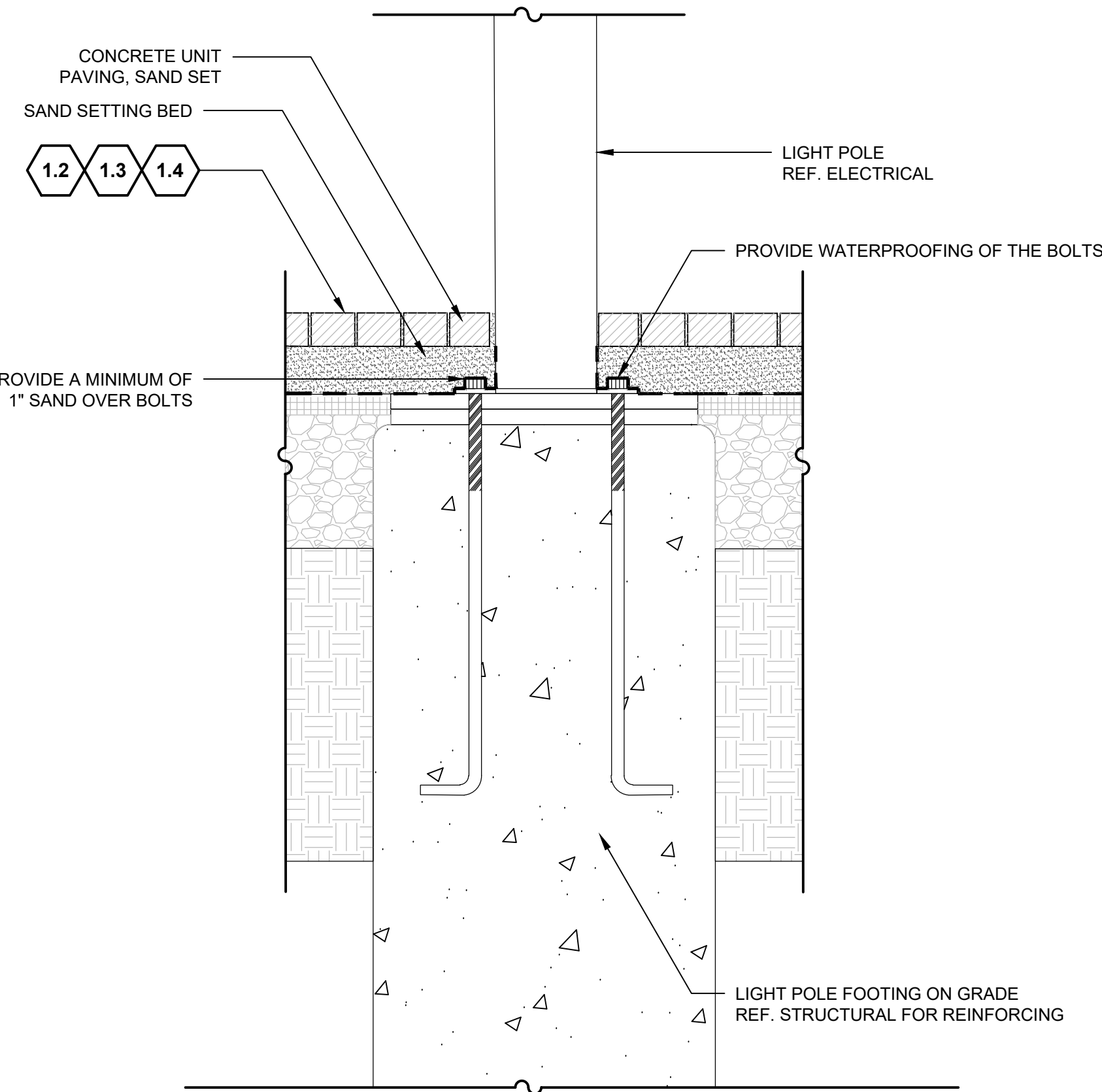
- A** OVERALL GOAL IS TO EXPRESS THE TREE VOLUME BY APPLYING LIGHT STRINGS TO AS MANY OF THE PRIMARY AND SECONDARY LIMBS IN THE TREE'S CANOPY AS IS PRACTICAL. IF EACH LIGHT STRING IS CARRIED ALL THE WAY DOWN TO THE GROUND IT WILL RESULT IN FAR TO GREAT A LAMP DENSITY AT THE TRUNK AND AT EACH CROTCH OF TREE. FOR THAT REASON, EACH LIGHT STRING SHOULD TRANSITION TO A SIMPLE, (UNLIT) FEED LINE APPROXIMATELY 9" TO 3' PRIOR TO INTERSECTING WITH ANOTHER LIMB CARRYING ITS OWN LIGHT STRING.
- B** LIGHT STRING SPECIFIED SHOULD HAVE LAMP SPACING OF APPROXIMATELY 9" ON CENTER. THE NUMBER OF LIGHT STRINGS REQUIRED TO GIVE A PLEASING FORM TO THE TREE IS VARIABLE BASED ON TREE TYPE AND SIZE.
- C** GREAT CARE SHOULD BE TAKEN TO CAMOUFLAGE WIRING AND HARDWARE. ORDER WIRE COLOR THAT MOST CLOSELY MATCHES THAT OF TREE. WIRE SPLICES, MOUNTING CLIPS, AND J-BOXES (IF NECESSARY) SHALL BE LOCATED ON TOP OF BRANCHES AND/OR ORIENTED AWAY FROM PRIMARY PUBLIC VIEW ANGLES. AND PAINTED TO MATCH TREE IF REQUIRED BY THE LANDSCAPE ARCHITECT.
- D** DEPLOYMENT OF THE LIGHT STRINGS IS UNIQUE TO EACH TREE AND WILL REQUIRE COORDINATION BETWEEN THE CONTRACTOR AND THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL INSTALL THE SPECIFIED LIGHTING ON ONE PROTOTYPICAL TREE AND AWAIT APPROVAL OF THE FIXTURE LOCATIONS, WIRE ROUTING, SPLICING, AND CAMOUFLAGING TECHNIQUES USED PRIOR TO PROCEEDING WITH THE LIGHTING INSTALL ON OTHER TREES. THE APPROVED PROTOTYPE TREE WILL SERVE AS THE MODEL AND QUALITY STANDARD FOR LIGHTING ON THE REMAINING TREES.

DRAWING NOTES:

- 1** SECURE LIGHT STRINGS TO LIMBS VIA CLEAR PLASTIC SINGLE S.S. SCREW LOOP FASTENERS (WHICH ALLOW FOR TREE FLEX AND WIRE MOVEMENT) APPROXIMATELY 3' ON CENTER. ALLOW A SMALL AMOUNT OF SLACK IN THE LIGHT STRING 'RUN'. FOR BRANCHES TOO SMALL IN DIAMETER TO ACCEPT A LOOP FASTENER, USE CLEAR PLASTIC NURSERY TAPE TO SECURE LIGHT STRINGS TO BRANCHES.
- 2** APPLY LIGHT STRING IN A 'LOOSE' SPIRAL UP MAJOR TREE LIMBS. LIMBS UTILIZED SHOULD BE THOSE LESS AFFECTED BY WIND MOVEMENT.
- 3** SPLICE FEED WIRES TO PARTIAL STRINGS 9" TO 3' ABOVE THE CONFLUENCE WITH ANOTHER STRING OF LIGHTS USING THE HUBS DESCRIBED IN FIXTURE SCHEDULE OR SIMILAR DEVICE (SEE NOTE A). ENSURE EACH SPLICE IS PERMANENT AND WATER TIGHT.
- 4** DO NOT EXTEND LIGHT STRINGS PAST TRIMMING LINE TO AVOID DAMAGE BY TREE MAINTENANCE CREW.
- 5** BRONZE, DIRECT BURIAL TRANSFORMER BOX LOCATED SUCH THAT TREE'S ROOT BALL IS NOT DAMAGED AND AWAY FROM PRIMARY PUBLIC VIEWS.
- 6** DIG POST HOLE A MINIMUM OF 18" DEEPER THAN TRANSFORMER AND BACKFILL WITH SAND OR SIMILAR DRAINAGE MATERIAL SUCH THAT FACE OF TRANSFORMER BOX IS APPROXIMATELY 2" ABOVE GRADE.
- 7** ALL ELECTRICAL CONDUIT AND FEED LINES TO BE WATER TIGHT AND BURIED AT CODE COMPLIANT DEPTH.

1 Tree Mounted Lighting (Type F8)

NOT TO SCALE



2 Light Pole Foundation Under Pavers

1"=1'-0"

SITE KEYNOTES:

DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
1.0 PAVEMENTS, RAMPS, CURBS		
1.1 Concrete Paving at Ice Rink: Refrigerated Slab	1 / 1A-L7-01	Ref Division 13
1.2 Unit Paving Type 1: At Grade	4 / 1A-L7-01	7,9/1A-L7-01 321400
1.3 Unit Paving Type 2: Over Structure	5 / 1A-L7-01	7,9/1A-L7-01 321400
1.4 Unit Paving Type 3: At Elevated Plaza	6 / 1A-L7-01	7,9/1A-L7-01 321400
1.5A Threshold at Ice Rink: Over Structure	2 / 1A-L7-01	321400
1.5B Threshold at Ice Rink: At Grade	3 / 1A-L7-01	321400
2.0 JOINTING		
2.1 Expansion Joint	8 / 1A-L7-01	321373
2.2 Sand Joint	10 / 1A-L7-01	321400
3.0 STEPS		
3.1 Stairs Type 1: at Elevated Plaza	1 / 1A-L7-02	033000
3.2 Stairs Type 2: At Promenade Building	2 / 1A-L7-02	033000
3.3 Seating Steps at Elevated Plaza	3 / 1A-L7-02	033000
4.0 SITE WALLS/ EMBANKMENTS		
4.1 Wall Type 1: Concrete Planter Walls	1 / 1A-L7-03	033000
4.2 Wall Type 2: Concrete Retaining Wall with Stone Veneer at Promenade	2 / 1A-L7-03	2/1A-L7-08 033000
4.3 Wall Type 3: Concrete Retaining Wall with Stone Veneer at Elevated Plaza	1 / 1A-L7-04	033000
	Ref Arch: Exterior Stone ST1	
5.0 SITE FURNITURE		
Refer to Site Furnishings Series		
5.1 Fire Bowl		103000
5.2 Trash Receptacle		By Owner
5.3 Planter Pots		323300
6.0 RAILINGS, BARRIERS, FENCING		
6.1 Railing Type 1: At Stairs	2 / 1A-L7-04	055213
6.2 Railing Type 2: At Ice Rink	1 / 1A-L7-05	323119
6.3 Railing Type 3: Drink Ledge	2 / 1A-L7-05	323119
6.4A Ice Rink Gate: Double	3 / 1A-L7-05	323119
6.4B Ice Rink Gate: Single	4 / 1A-L7-05	323119
7.0 SITE LIGHTING		
Refer to Site Lighting Series		
7.1 Tree Mounted Lighting (Type F8)	Ref Electric	1/1A-L7-10 Ref Electric
7.2 Light Pole Fountain Under Pavers	Ref Electric	2/1A-L7-10 Ref Electric
8.0 DRAINAGE		
Refer to Civil Drawings		
9.0 PLANTING AND LANDSCAPE		
Refer to Tree Planting and Shrub and Groundcover Series Drawings		
10.0 MISCELLANEOUS ELEMENTS		
10.1 Fire Pit	1 / 1A-L7-06	2/1A-L7-06 103000
10.2 Bench: Type 1	1 / 1A-L7-07	055000/ 061083

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823



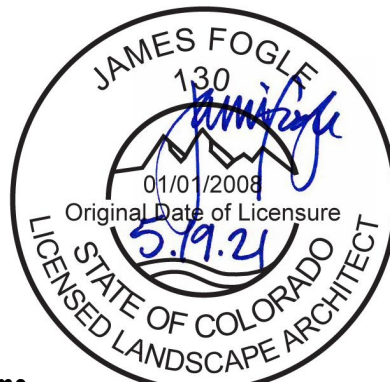
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141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494
1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186



me engineers
12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100
14143 Denver West Pkwy
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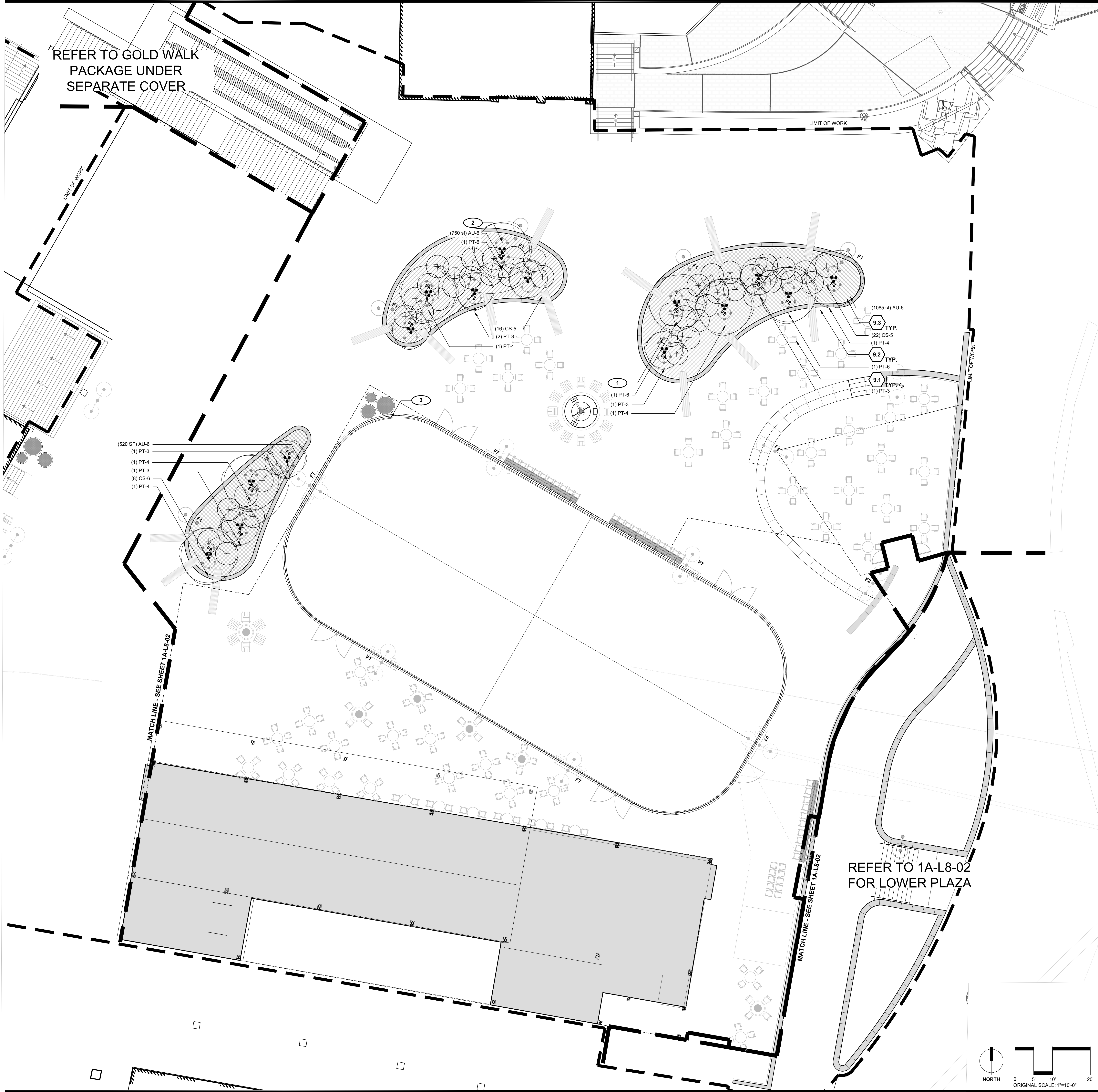
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BP3C PROMENADE PERMIT AND CONSTRUCTION	
Project Number	DW Project Number
003.7835.000	6466
Description	
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LIGHTING
DETAILS

1A-L7-10



SITE KEYNOTES:				DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
9.0	PLANTING AND LANDSCAPE					
9.1	Deciduous Tree	1 / L11-01	329300			
9.2	Deciduous Shrub	2 / L11-01	329300			
9.3	Groundcover	3 / L11-01	329300			
PLANTING KEY LEGEND						
ABBR.	BOTANICAL NAME	COMMON NAME				
DECIDUOUS TREES						
PT-3	<i>Populus tremuloides</i>	Aspen				
PT-4	<i>Populus tremuloides</i>	Aspen				
PT-6	<i>Populus tremuloides</i>	Aspen				
DECIDUOUS & EVERGREEN SHRUBS						
CS-5	<i>Cornus sericea</i>	Red Twig Dogwood				
GROUNDCOVERS/ PERENNIALS/ ORNAMENTAL GRASSES						
AU-6	<i>Arctostaphylos uva-ursi</i>	Bearberry				

- TREE, SHRUB AND GROUNDCOVER REFERENCE NOTES**
- Coordinate shrub layout with utilities and furnishings. Report conflicts to landscape architect.
 - Tree locations per plan and verified by landscape architect prior to installation.
 - Plantings in planters by owner.

ALTRERA east west partners

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823

LANDMARK
CONSULTANTS, INC.

141 9th Street
PO Box 774943
Steamboat Springs, CO 80204
80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186

MARTIN/MARTIN
CONSULTING ENGINEERS

12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100

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engineers

14143 Denver West Pkwy
Suite 300
Golden, CO
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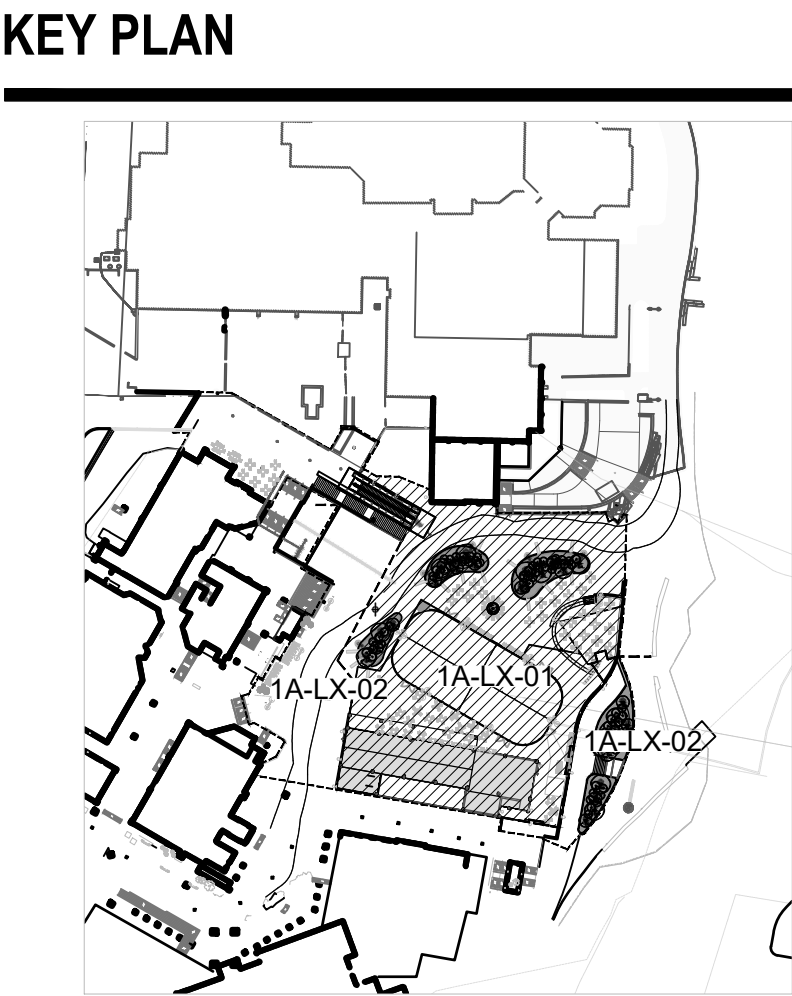
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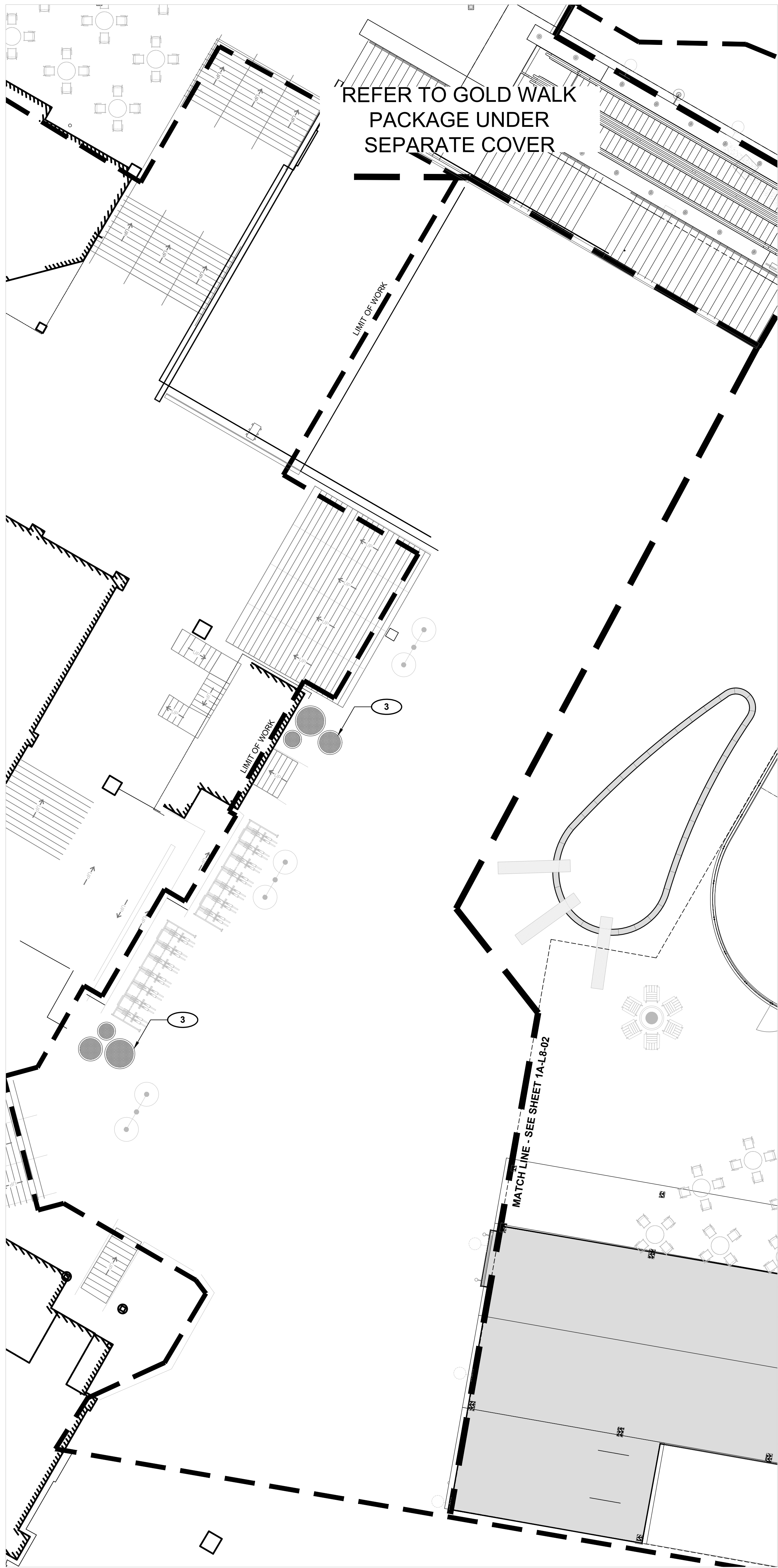
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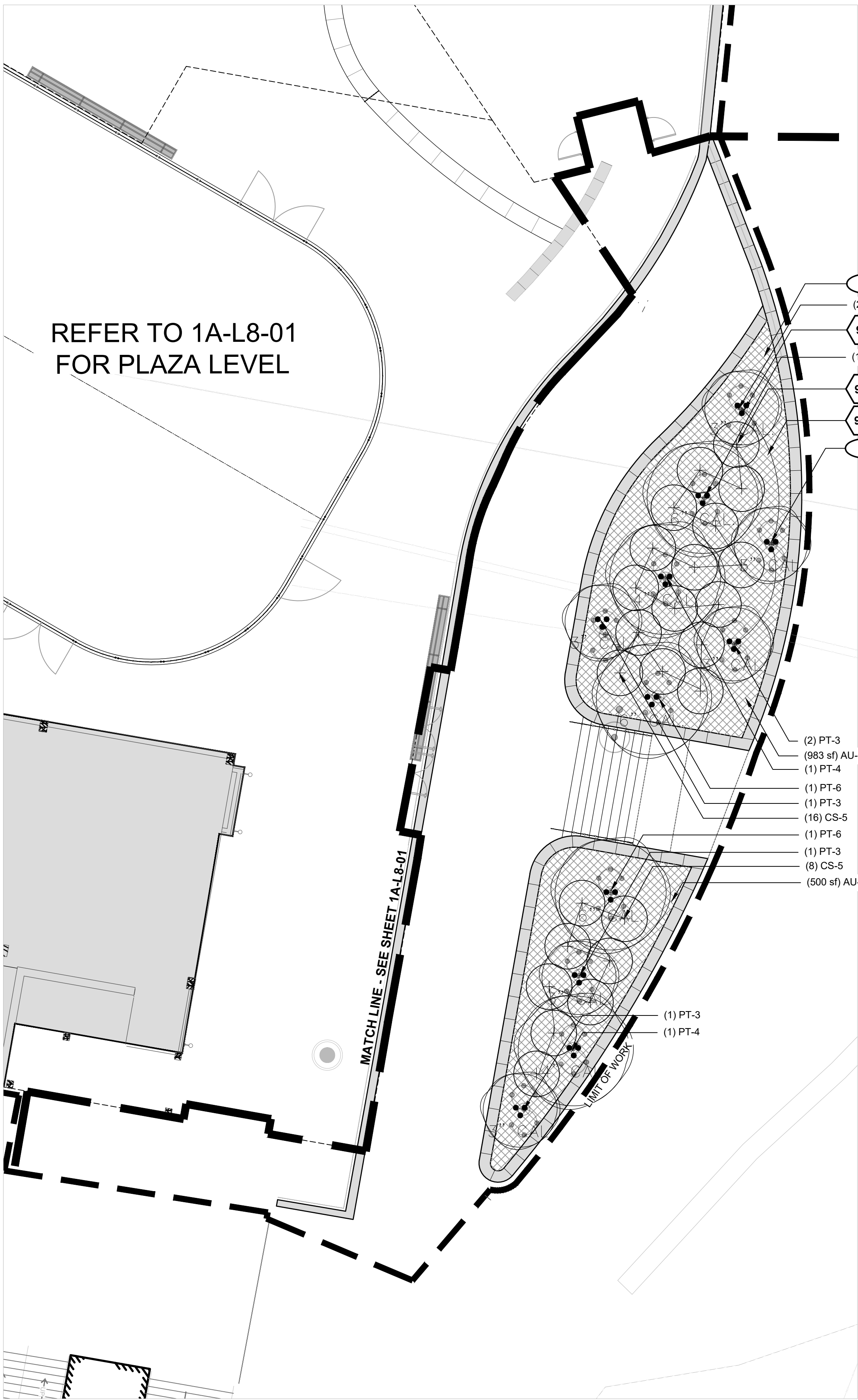


PLANTING PLAN

1A-L8-01



1 PLANTING PLAN: SLOPESIDE PLAZA WEST
1"=10'-0"



2 PLANTING PLAN: SLOPESIDE PLAZA LOWER
1"=10'-0"

SITE KEYNOTES:

		DETAIL/ SHEET	RELATED DETAILS	SPEC. SECTION
9.0	PLANTING AND LANDSCAPE			
9.1	Deciduous Tree	1 / L11-01		329300
9.2	Deciduous Shrub	2 / L11-01		329300
9.3	Groundcover	3 / L11-01		329300

PLANTING KEY LEGEND

ABBR.	BOTANICAL NAME	COMMON NAME
DECIDUOUS TREES		
PT-3	<i>Populus tremuloides</i>	Aspen
PT-4	<i>Populus tremuloides</i>	Aspen
PT-6	<i>Populus tremuloides</i>	Aspen
DECIDUOUS & EVERGREEN SHRUBS		
CS-5	<i>Cornus sericea</i>	Red Twig Dogwood
GROUNDCOVERS/ PERENNIALS/ ORNAMENTAL GRASSES		
AU-6	<i>Arctostaphylos uva-ursi</i>	Bearberry

TREE, SHRUB AND GROUNDCOVER
REFERENCE NOTES

- 1 Coordinate shrub layout with utilities and furnishings. Report conflicts to landscape architect.
- 2 Tree locations per plan and verified by landscape architect prior to installation.
- 3 Plantings in planters by owner.



ALTRERA east west partners

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186



12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100



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Suite 300
Golden, CO
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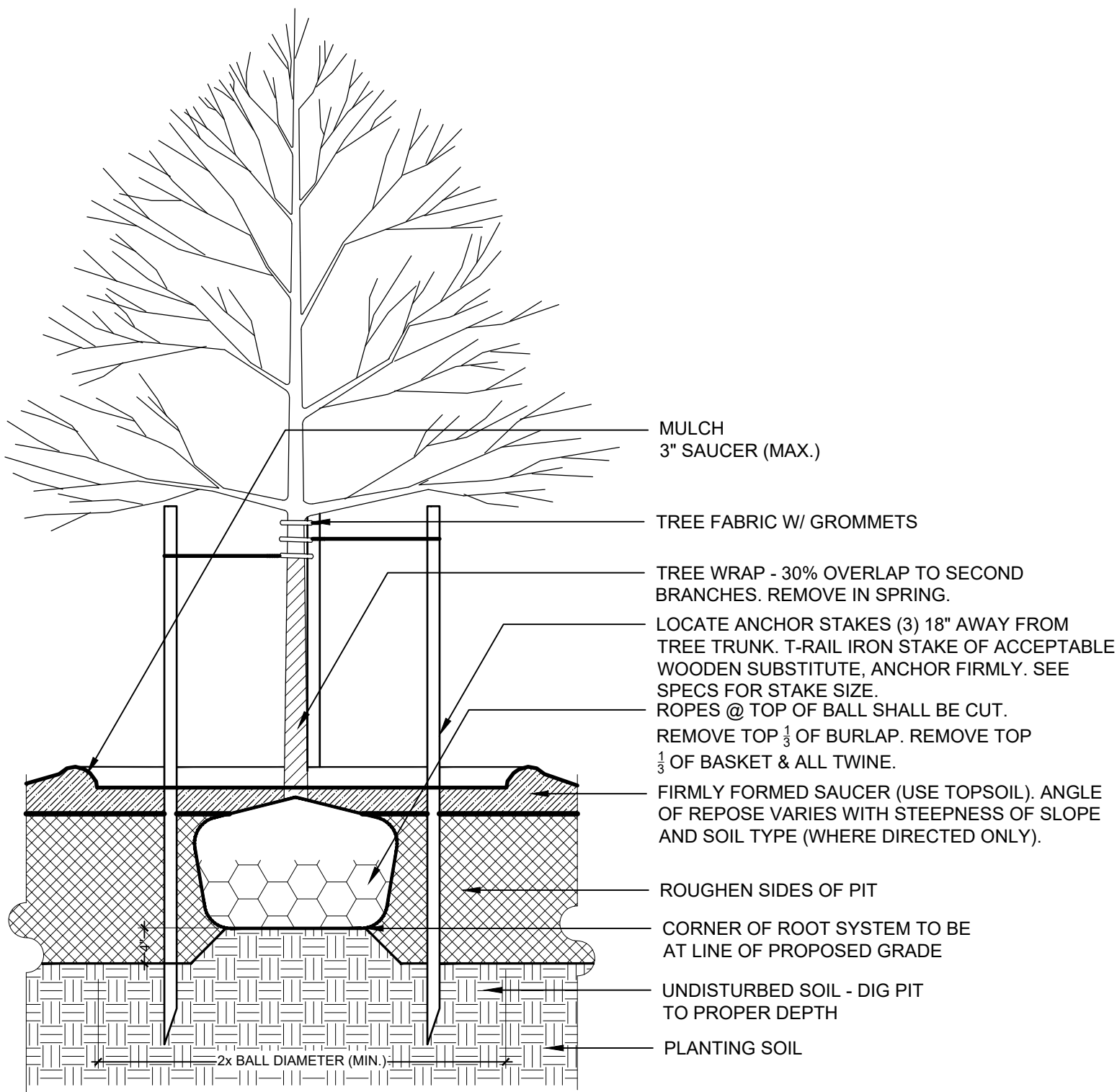
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PLANTING
PLAN

1A-L8-02

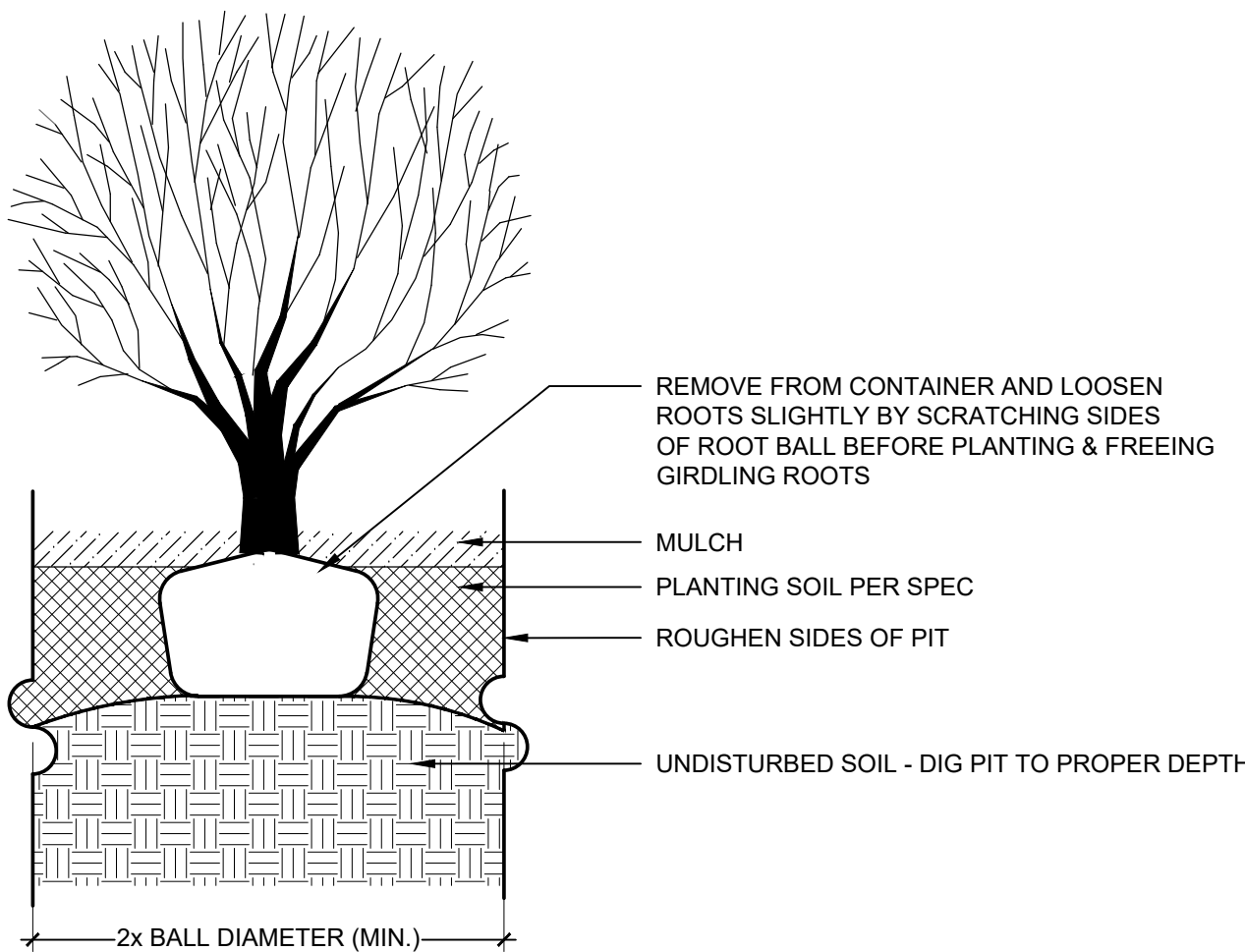
KEY PLAN





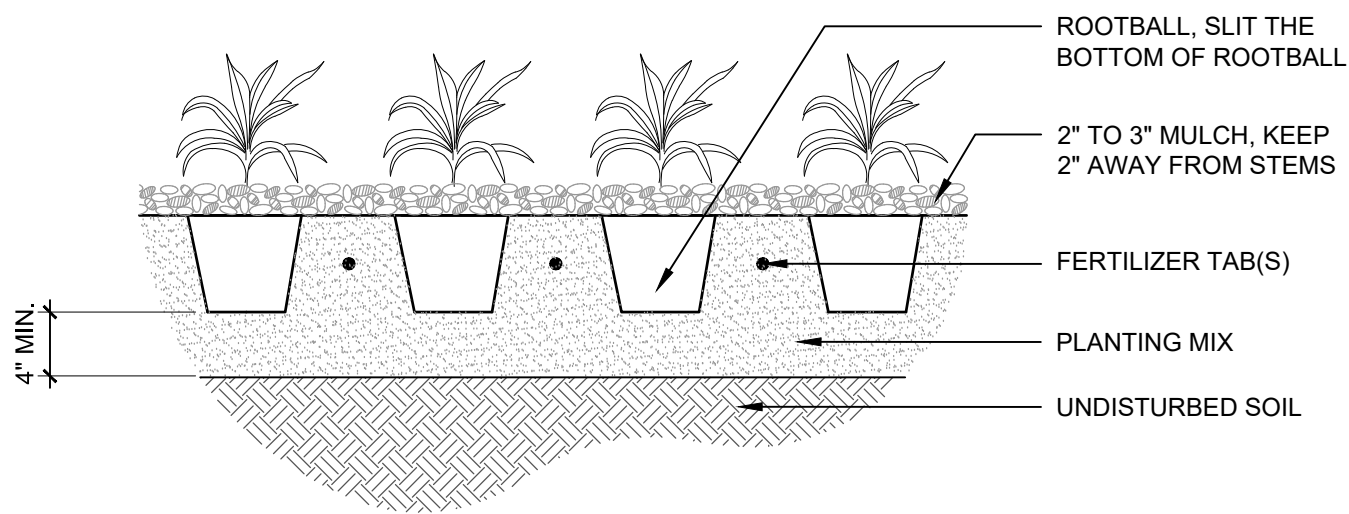
1 **DECIDUOUS TREE** 9.1

1/4"=1'-0"



2 **SHRUB PLANTING** 9.2

1/4"=1'-0"



NOTES:
1. PLACE PLANTS IN PREPARED BED AS SPECIFIED.
2. SPACING AS SPECIFIED IN PLANT LIST (SEE PLANS).
3. PLACE PLANTS AROUND PLANTING BED EDGE FIRST, AND FILL INSIDE.

3 **PERENNIAL GROUNDcover PLANTING** 9.3

1/4"=1'-0"

SITE KEYNOTES:

9.0	PLANTING AND LANDSCAPE	DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
9.1	Deciduous Tree	1 / L11-01		329300
9.2	Deciduous Shrub	2 / L11-01		329300
9.3	Groundcover	3 / L11-01		329300

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Steamboat Springs, CO 80487

Gensler

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Suite 150
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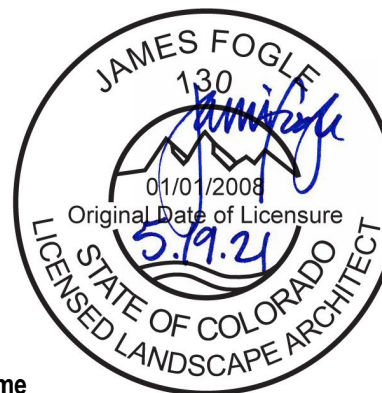
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Project Number

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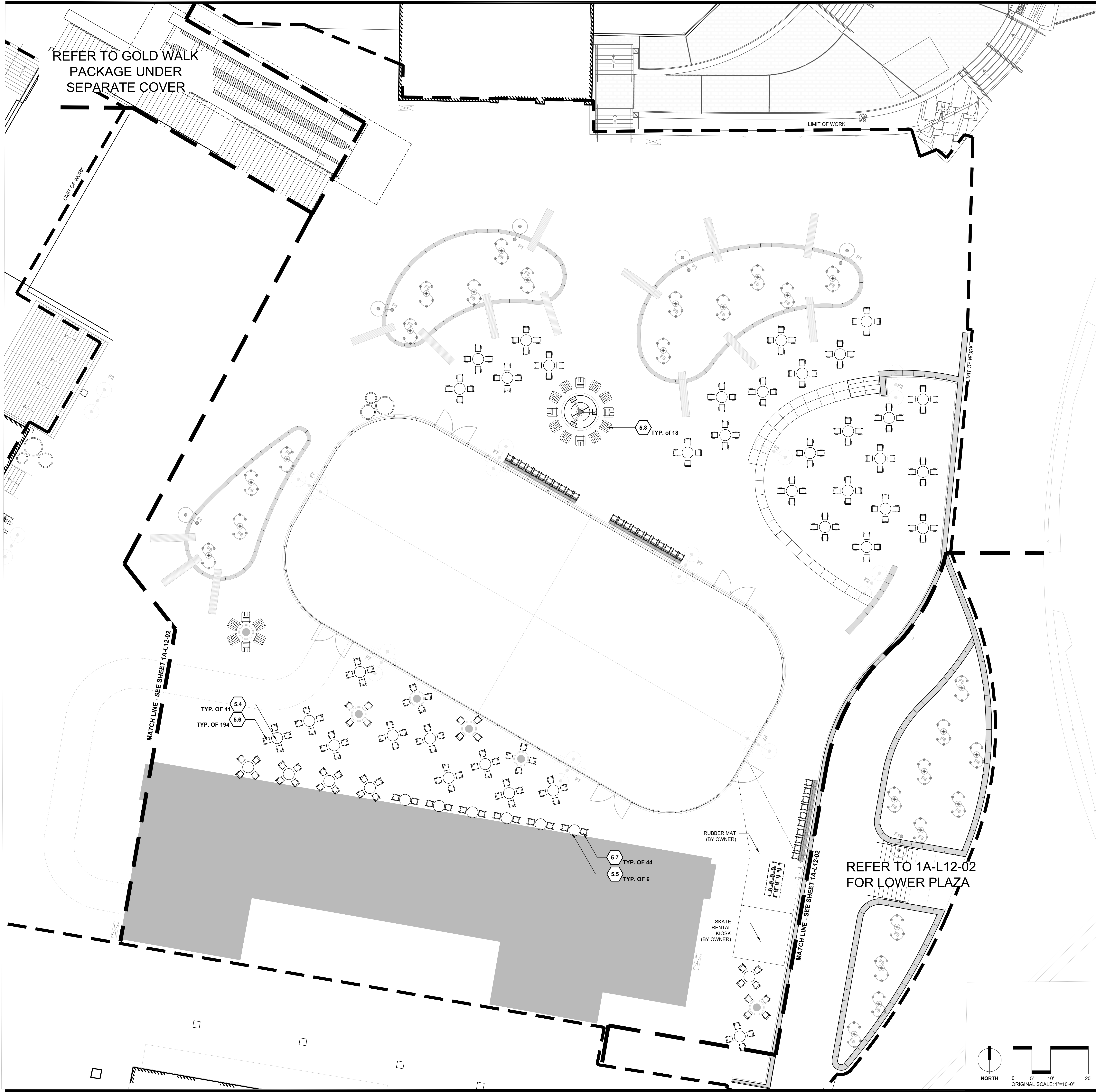
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**PLANTING
DETAILS**

1A-L11-01



SITE KEYNOTES:		DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
5.0	SITE FURNITURE	Refer to Site Materials Plan for fixed site furnishings.		
5.3	Bike Rack		By Owner	
5.4	Table Type 1: moveable, dining height		By Owner	
5.5	Table Type 2: moveable, standing height		By Owner	
5.6	Chair Type 1: moveable, bistro		By Owner	
5.7	Chair Type 2: moveable, bar stool		By Owner	
5.8	Chair Type 3: moveable, Adirondack		By Owner	



ALERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States

Tel 303.595.8585
Fax 303.625.6823

LANDMARK
CONSULTANTS, INC.

141 9th Street
PO Box 774943
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Suite 100
Denver, CO 80204
Tel 303.623.5186

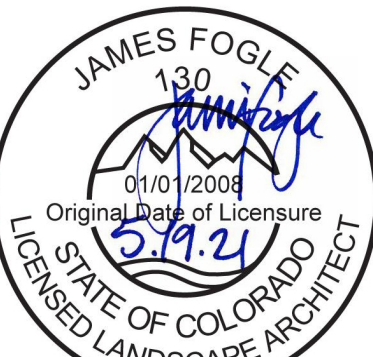
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12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100

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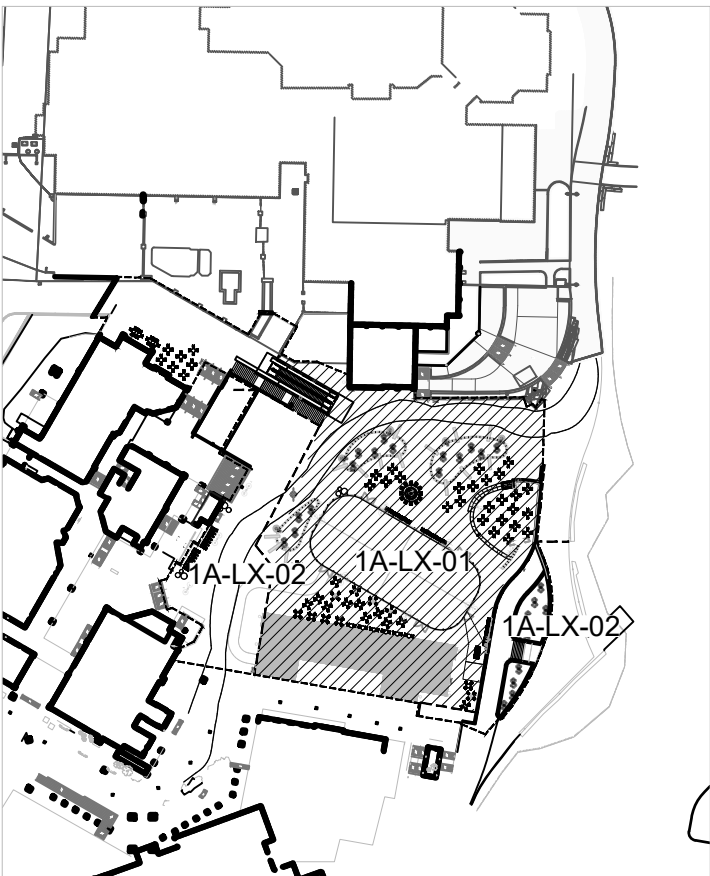


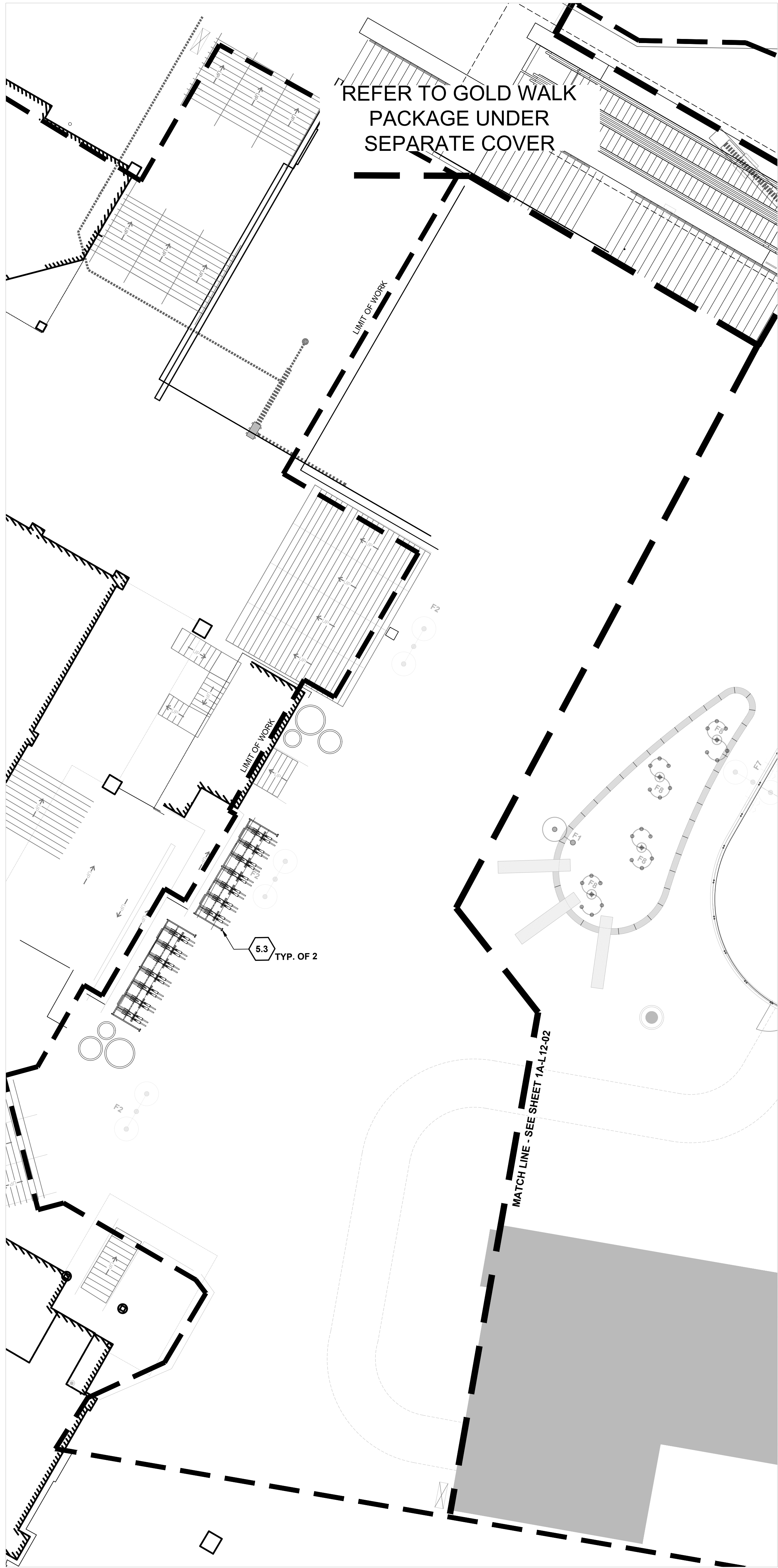
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SITE FURNISHINGS PLAN

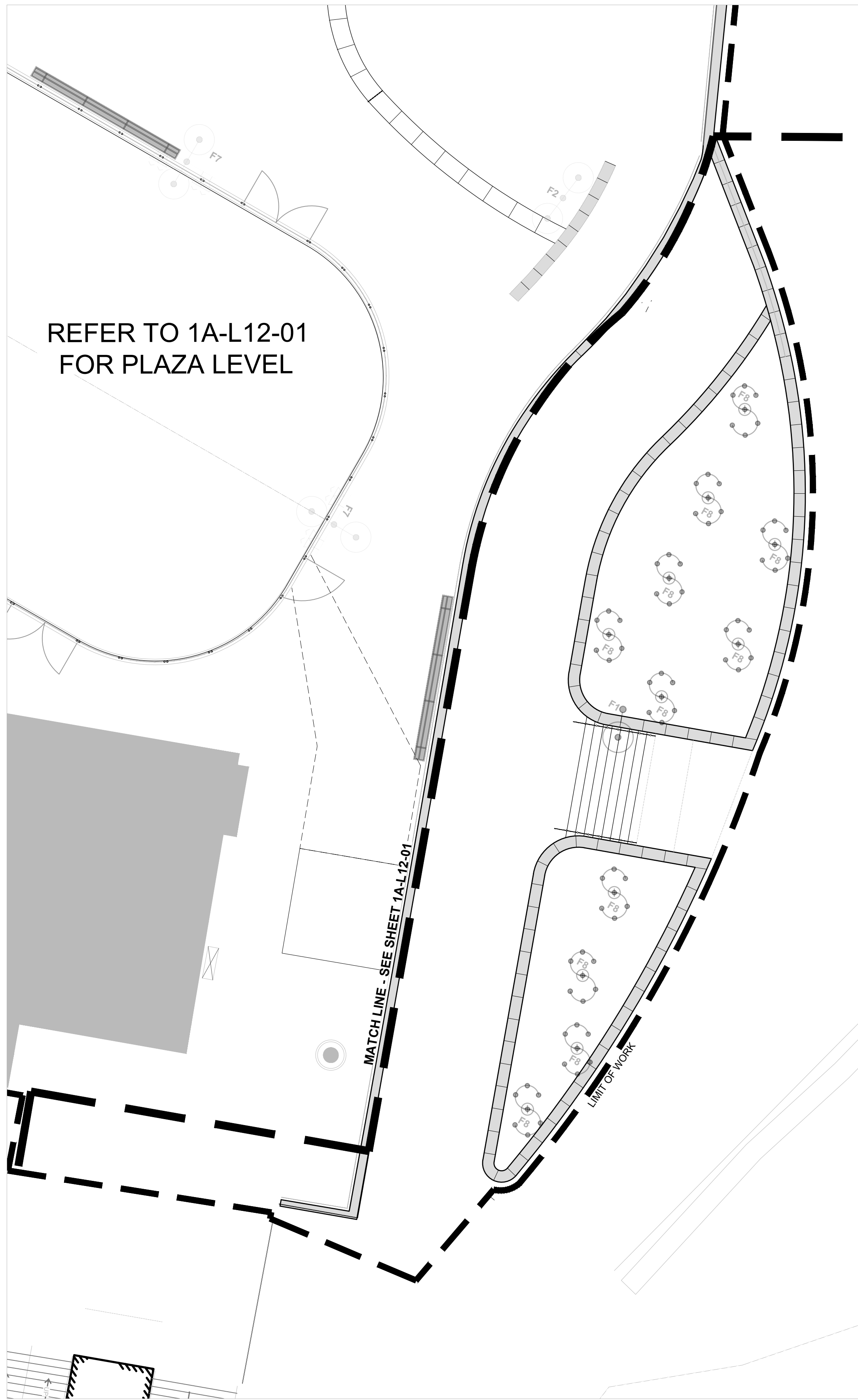
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KEY PLAN





1 FURNISHINGS PLAN: SLOPESIDE PLAZA WEST
1"=10'-0"



2 FURNISHINGS PLAN: SLOPESIDE PLAZA LOWER
1"=10'-0"

NOTE: Refer to General Information Sheet
L0-04 for General and Series Specific Notes,
Legends, Abbreviations, Lists, Schedules and
Mockup details.



SITE KEYNOTES:

DETAIL / SHEET	RELATED DETAILS	SPEC. SECTION
5.0	SITE FURNITURE	
Refer to Site Materials Plan for fixed site furnishings.		
5.3	Bike Rack	By Owner
5.4	Table Type 1: moveable, dining height	By Owner
5.5	Table Type 2: moveable, standing height	By Owner
5.6	Chair Type 1: moveable, bistro	By Owner
5.7	Chair Type 2: moveable, bar stool	By Owner
5.8	Chair Type 3: moveable, Adirondack	By Owner



ALTRERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186



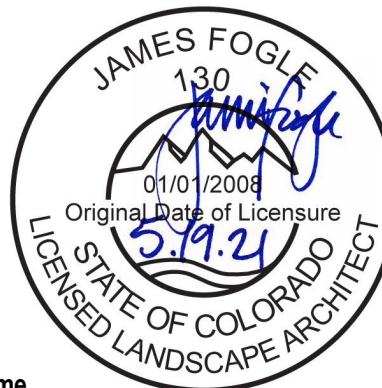
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Lakewood, CO 80215
United States
Tel 303.431.6100



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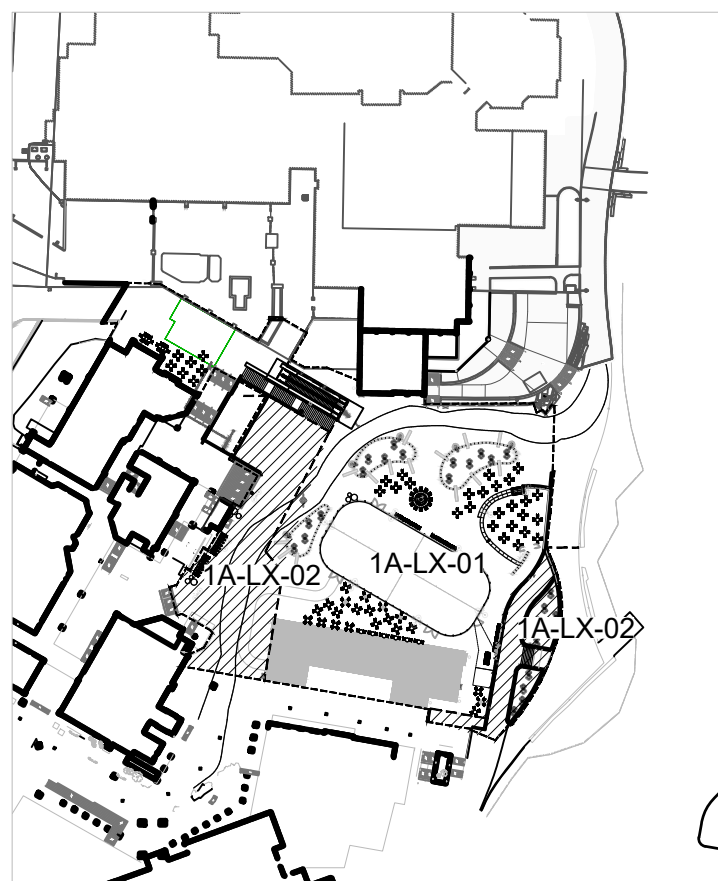


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SITE
FURNISHINGS
PLAN

1A-L12-02

KEY PLAN



IRRIGATION NARRATIVE

THE INTENT IS TO DESIGN AN IRRIGATION SYSTEM THAT WILL MAINTAIN AESTHETICALLY PLEASING PLANT MATERIAL WITH A REASONABLE INITIAL CONSTRUCTION COST AND MINIMAL ANNUAL MAINTENANCE COSTS.

THE IRRIGATION SYSTEM ANTICIPATED SHALL BE A COMBINATION BUBBLERS/DRIP SYSTEM USING POP-UP SPRAY SPRINKLERS WITH BUBBLER NOZZLES FOR TREES AND POINT SOURCE DRIP EMITTERS FOR SHRUB AND GROUNDCOVER MATERIALS AND DRIP EMITTERS TO POTS. THE PRIMARY PLANT MATERIAL TYPES (TREES, SHRUBS/GROUNDCOVERS, POTS) SHALL BE IRRIGATED ON SEPARATE CONTROL VALVES.

THE WATER SOURCE SHALL BE LOCATED BY CONTRACTOR AT THE LOWER LEVEL MECHANICAL ROOM. NEW CONTROLLER TO BE LOCATED IN LOWER LEVEL MECHANICAL ROOM IN THE GENERAL AREA SHOWN ON PLAN.

THE SITE IS INTENDED TO OPERATE BOTH WATER SOURCES SIMULTANEOUSLY TO SERVE LANDSCAPE, DURING OFF-BUSINESS HOURS, DURING A 10-HOUR WATERING WINDOW. THIS CAN TYPICALLY BE ACHIEVED FROM 8:00 P.M. - 6:00 A.M

THE MAINLINE SHALL BE CLASS 200 PVC PIPE AND SPRINKLER AND BUBBLER LATERAL PIPE SHALL BE CLASS 200 PVC. SPECIFIED PIPE BURIAL DEPTHS SHALL BE 24 INCHES FOR MAINLINE PIPE AND 18 INCHES FOR LATERAL PIPE. CONTROL WIRING SHALL BE ADJACENT TO OR BELOW MAINLINE BURIAL DEPTHS. WHERE IRRIGATION MAINLINE AND CONTROL WIRE MUST CROSS UNDER HARD SURFACE, PIPE AND WIRE SHALL BE ROUTED THROUGH SEPARATE PVC CLASS 200 SLEEVES.

THE IRRIGATION SYSTEM SHALL BE DESIGNED TO BE WINTERIZED USING COMPRESSED AIR INJECTED AT A CONNECTION POINT INDICATED AT THE POC. GATE VALVES SHALL PROVIDE LOCALIZED ISOLATION OF SECTIONS OF THE MAINLINE TO ASSIST IN SYSTEM WINTERIZATION AND MAINTENANCE.

PLASTIC SOLENOID VALVES SHALL BE RATED AT 200 PSI, HAVING A FLOW CONTROL AND PRESSURE REGULATION CAPABILITY. MULTIPLE LATERALS SHALL OPERATE SIMULTANEOUSLY AS PROGRAMMED FROM THE CONTROLLER. EACH MANUAL AND SOLENOID VALVE SHALL BE HOUSED IN A SINGLE VALVE BOX FOR VALVE ACCESS.

QUICK COUPLING VALVES SHALL BE LOCATED ON APPROXIMATELY 200 FOOT CENTERS FOR INCIDENTAL WATER NEEDS.

SPRINKLERS SHALL BE SPACED SO AS TO NOT EXCEED THE MANUFACTURER'S RECOMMENDED MAXIMUM SPACING AND TO MINIMIZE OVER-SPRAY ONTO HARD SURFACES OR NON-IRRIGATED AREAS. ALL SPRINKLERS SHALL BE SPECIFIED TO BE INSTALLED ON SWING JOINTS.

DRIP EMITTERS SHALL BE OF THE PRESSURE COMPENSATING TYPE INSTALLED ON UV RADIATION RESISTANT POLYETHYLENE HOSE AT EACH TREE AND SHRUB LOCATION.

IRRIGATION LEGEND

- SLEEVES: **CLASS 200 PVC**
- POINT-OF-CONNECTION ASSEMBLY
- MAINLINE PIPE: **CLASS 200 PVC EXISTING**
- MAINLINE PIPE: **CLASS 200 PVC 1 1/2-INCH SIZE UNLESS OTHERWISE INDICATED**
- LATERAL PIPE TO DRIP EMITTERS: **UV RADIATION RESISTANT POLYETHYLENE 3/4-INCH SIZE UNLESS OTHERWISE INDICATED, ROUTING IS DIAGRAMMATIC** TO SERVE SHRUB AND GRONDCOVER MATERIALS.
- UNCONNECTED PIPE CROSSING
- REMOTE CONTROL DRIP VALVE ASSEMBLY: **RAIN BIRD XCZ-PRB-100-COM**
- LATERAL PIPE TO TREE EMITTERS: **CLASS 315 PVC 1-INCH SIZE UNLESS OTHERWISE INDICATED**
- QUICK COUPLING VALVE ASSEMBLY: **RAIN BIRD 5RC**
- ISOLATION GATE VALVE ASSEMBLY: **MATCO 514/10RT**
- FLOW SENSOR ASSEMBLY: **FLOMEC QS200 ULTRASONIC**
- BACKFLOW PREVENTION ASSEMBLY: **FEBCO 825YA**
- WATER METER AND CURB STOP ASSEMBLY: **BY OTHERS**
- MASTER VALVE ASSEMBLY: **WEATHERMATIC MAX-DW**
- FLUSH CAP ASSEMBLY

A1

14

1"

Turf

INDICATES CONTROLLER AND STATION NUMBER

INDICATES LATERAL DISCHARGE (GPM)

INDICATES VALVE SIZE (INCHES)

INDICATES LANDSCAPE APPLICATION

IRRIGATION CONTROL WIRES IN CONDUIT OR WITH WARNING TAPEIRRIGATION MAINLINE CAP ASSEMBLYTREE BUBBLER ASSEMBLY: **TWO (2) RAIN BIRD 1402 BUBBLERS**
PRESSURE: **30 PSI**
FLOW (GPM): **0.5 GPM PER BUBBLER (1.0 GPM PER ASSEMBLY)**POT PLANTER EMITTER ASSEMBLY: ONE(1) RAIN BIRD XERI-BUG XBT-10 ON RISER.
PRESSURE: 30 PSI
FLOW (GPM): 1.0 GPH PER EMITTER (POT)

INSTALLATION GENERAL NOTES

1. THE SYSTEM DESIGN ASSUMES A MINIMUM DYNAMIC PRESSURE FOR THE IRRIGATION SYSTEM OF 60' PSI (TBD), AT A MAXIMUM DISCHARGE OF 12 GPM AT THE 3/4-INCH IRRIGATION POINT-OF-CONNECTION (POC). TAP, METER, BACKFLOW PREVENTER, AND MASTER VALVE SHALL ALL BE THE SAME SIZE. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.

2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.

3. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

4. DO NOT PROCEED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.

5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:

A. ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.

B. TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.

C. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF TEES IN THE BULLNOSE CONFIGURATION, OR USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.

6. PROVIDE THE FOLLOWING COMPONENTS TO THE OWNER PRIOR TO THE COMPLETION OF THE PROJECT:

A. TWO (2) OPERATING KEYS FOR EACH TYPE OF MANUALLY OPERATED VALVES.

B. TWO (2) OF EACH SERVICING WRENCH OR TOOL NEEDED FOR COMPLETE ACCESS, ADJUSTMENT, AND REPAIR OF ALL ROTARY SPRINKLERS.

7. SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF COVERAGE OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST PERFORMANCE.

8. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR. PIPE SLEEVES SHALL BE SIZED TWICE THE NOMINAL SIZE OF THE PIPE PASSING THROUGH.

9. INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.

10. THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN THE IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.

11. INSTALL TWO (2) #14 AWG CONTROL WIRES ON STANDARD WIRE SYSTEMS OR ONE (1) #14 AWG TWO-WIRE PAIR ON TWO-WIRE SYSTEMS, FOR USE AS SPARES. INSTALL SPARE WIRES FROM CONTROLLER LOCATION TO EACH DEAD-END OF MAINLINE. COIL 3 FEET OF WIRE IN VALVE BOX.
- CONSTRUCTION NOTES
- 1

THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) SHALL BE DOWNSTREAM OF THE IRRIGATION WATER TAP AND METER INSTALLED BY OTHERS AT THE APPROXIMATE LOCATION SHOWN. INSTALL BACKFLOW PREVENTION UNIT AND MASTER VALVE ASSEMBLY AS INDICATED, SAME SIZE AS POC. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.

2

WALL MOUNT THE IRRIGATION CONTROLLER AT THE APPROXIMATE LOCATION SHOWN. COORDINATE ELECTRICAL POWER TO THE CONTROLLER WITH THE OWNER'S REPRESENTATIVE. CARE SHOULD BE TAKEN TO INSTALL THE IRRIGATION CONTROLLER IN A LOCATION THAT IS ACCESSIBLE FOR MAINTENANCE, AND SCREENED FROM VIEW EITHER BEHIND ENTRY WALLS, NEXT TO BUILDINGS, OR BEHIND PLANT MATERIAL. FINAL LOCATION TO BE APPROVED BY OWNER'S REPRESENTATIVE.

3

IRRIGATION SHOWN OUT OF LANDSCAPED AREA FOR CLARITY ONLY. INSTALL IRRIGATION COMPONENTS WITHIN LANDSCAPED AREA.

4

IRRIGATION MAINLINE TO BE ROUTED BELOW THE PLAZA AND STUB OUT INTO LANDSCAPE AREA SHALL BE PROVIDED FOR IRRIGATION CONTRACTOR TO INSTALL IRRIGATION AS SHOWN.

5

IRRIGATION TO FREESTANDING PLANTER POTS. INSTALL ACCESS BOX AT EACH POT LOCATION TYPICAL. SEE DETAILS.
- SHEET NOTES
-
- 2305 Mount Werner Circle
Steamboat Springs, CO 80487
- Gensler
- 1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.8585
Fax 303.825.6823
-
- 141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494
- DESIGNWORKSHOP
- 1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186
-
- 12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100
-
- 14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655
-
- SITE WATER ENGINEERING SERVICES
382 W. DRAKE RD, SUITE 204
FORT COLLINS, COLORADO 80526
Telephone: 970.262.1800
Web: www.hinesinc.com
- GENERAL NOTES
- | Date | Description |
|--------------|---|
| - 2021.05.19 | BP3: PROMENADE - ISSUE FOR BID AND PERMIT |
- KEY PLAN
-
- Seal / Signature

5/19/2021

Project Name

SSRC | BASE AREA IMPROVEMENTS

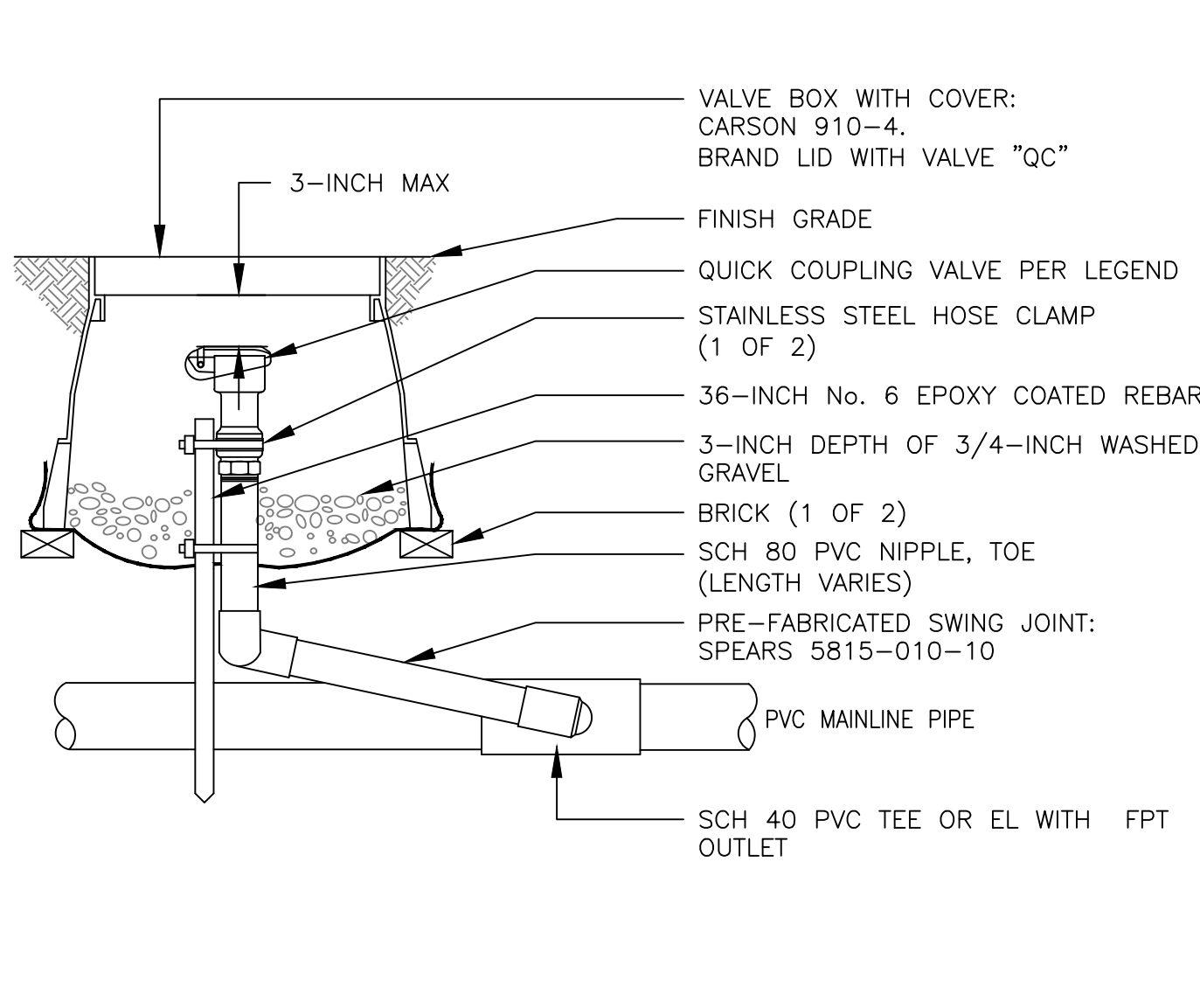
Project Number

003.7835.000

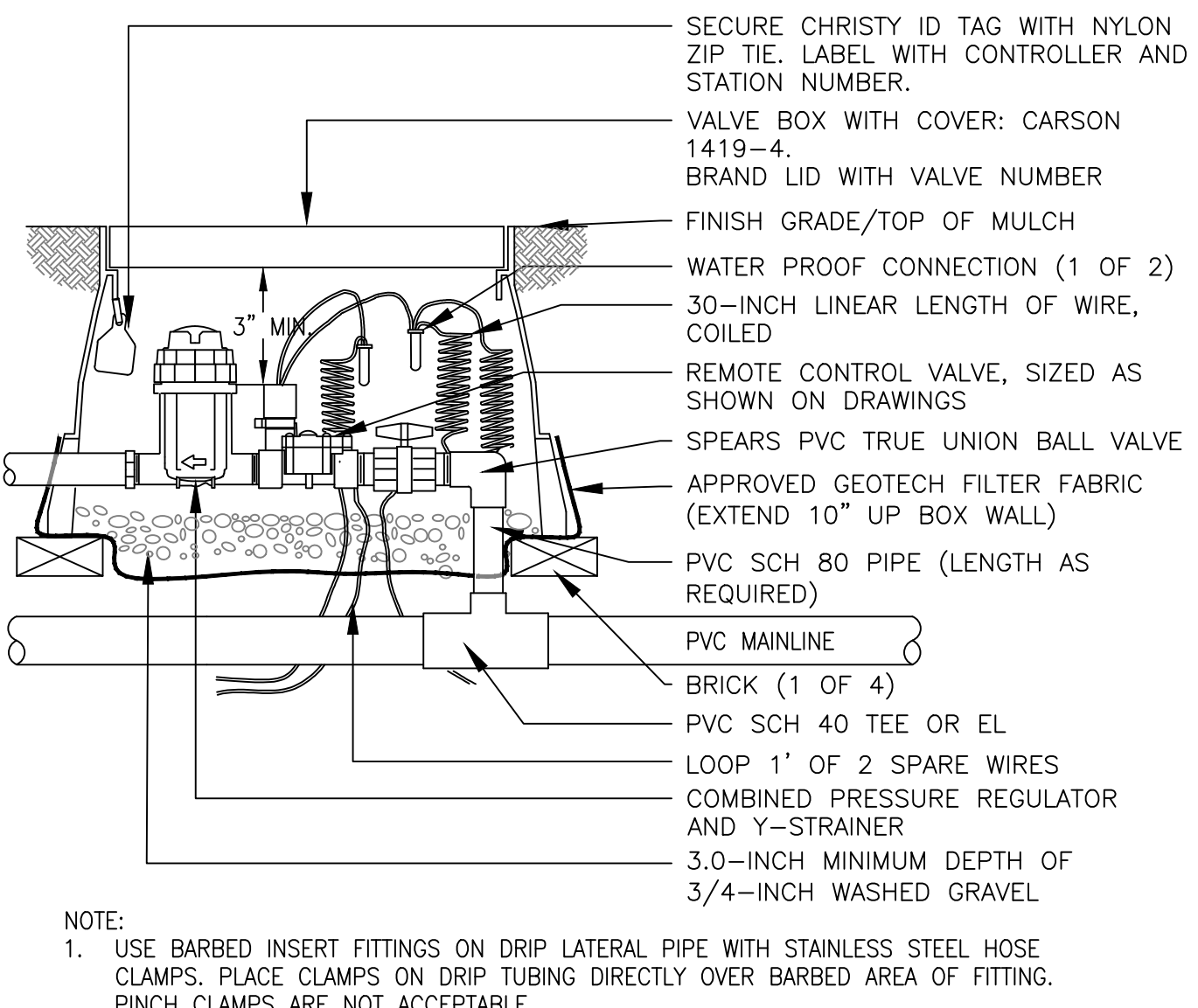
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IRRIGATION LEGEND AND NOTES

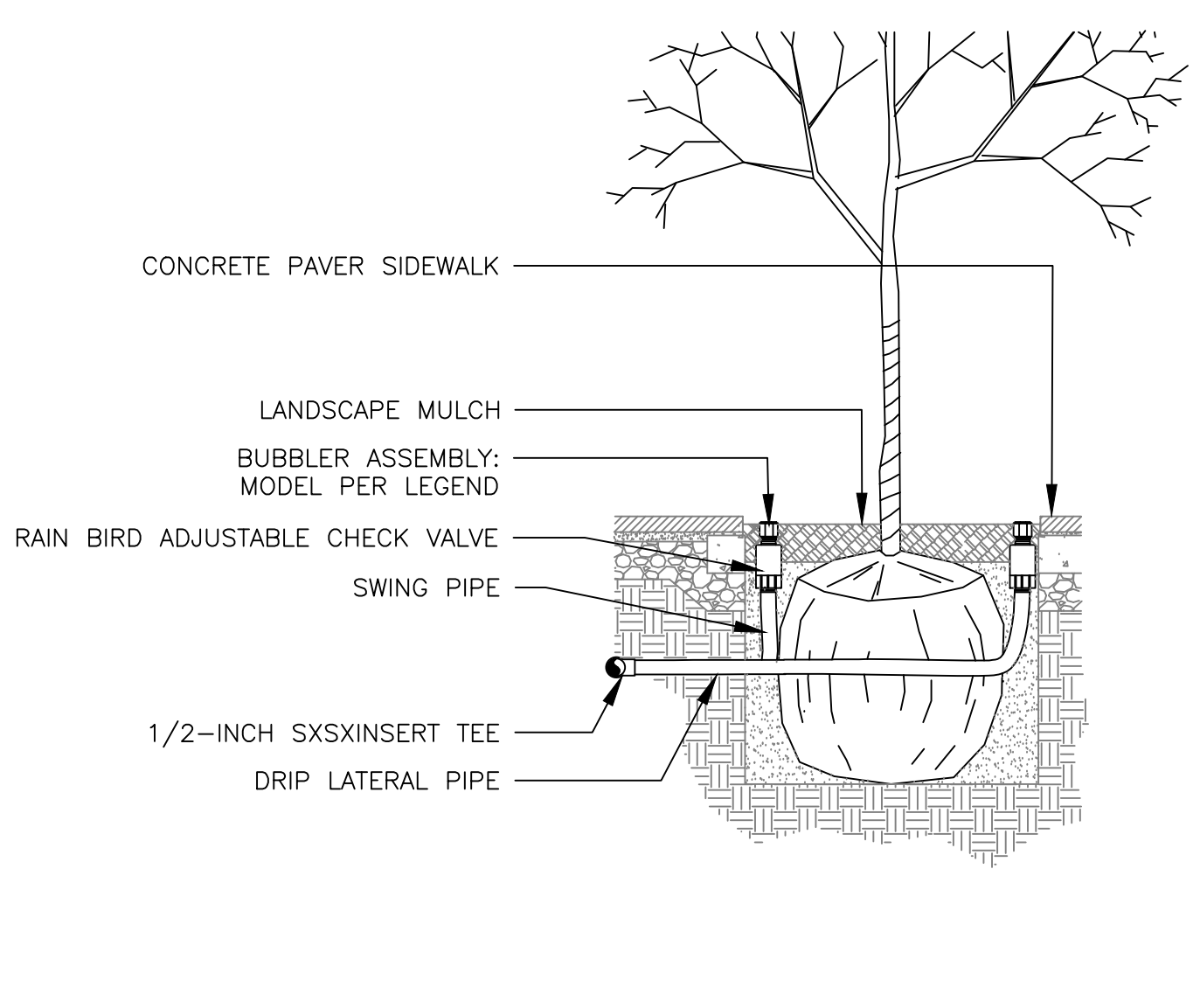
Scale
- 1A-IR0-0
- © 2021 Gensler



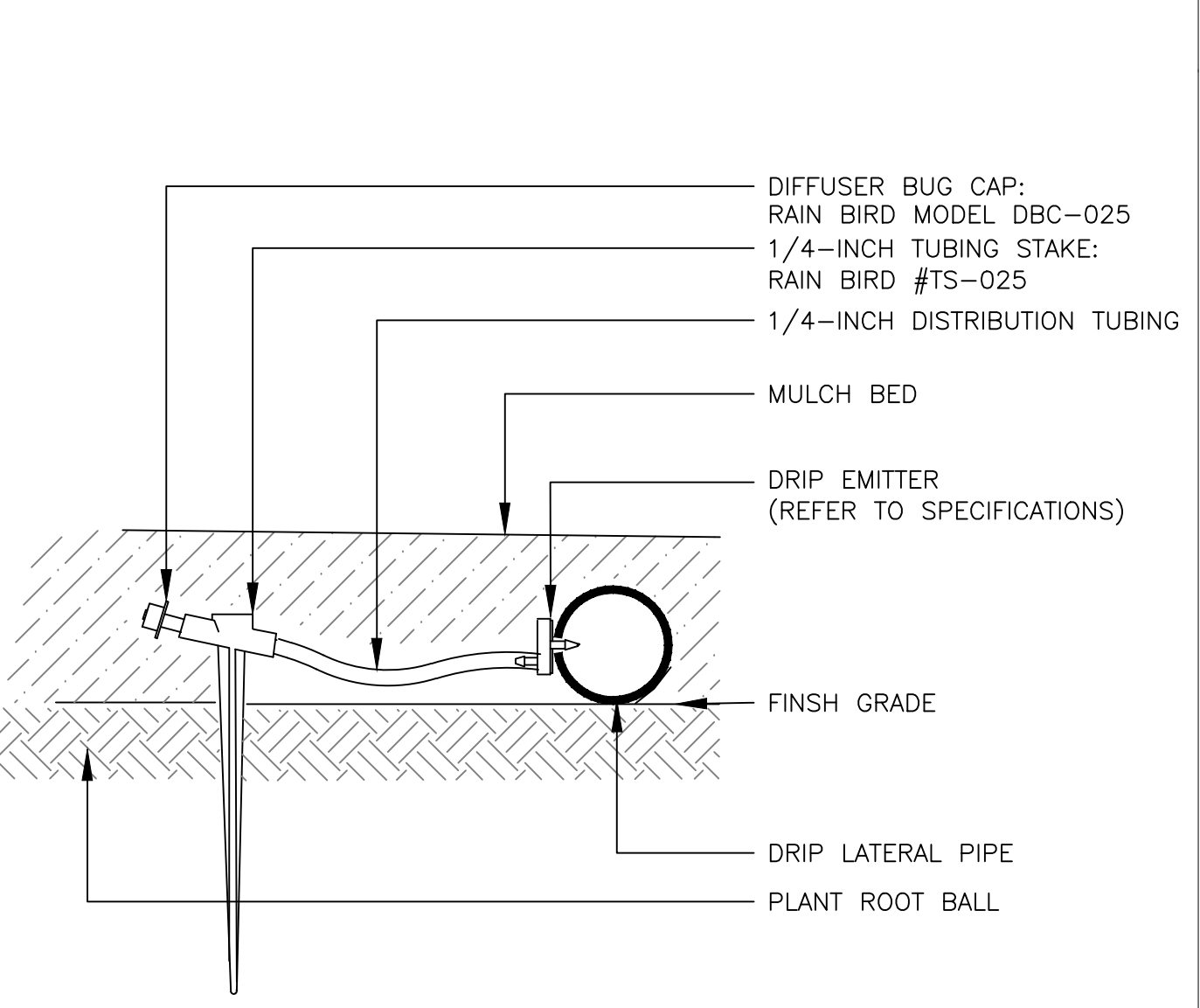
1 QUICK COUPLING VALVE ASSEMBLY



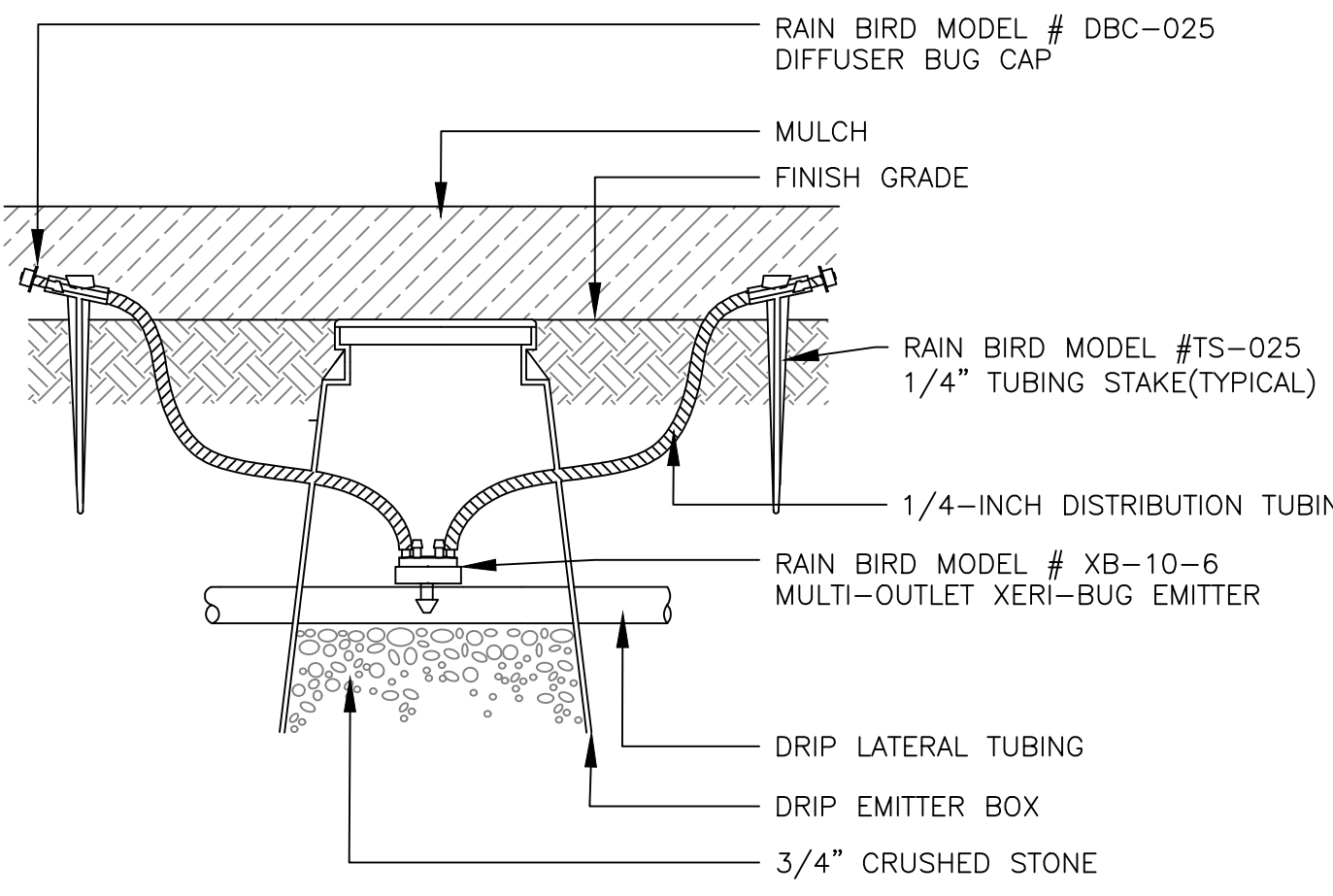
2 REMOTE CONTROL DRIP VALVE ASSEMBLY



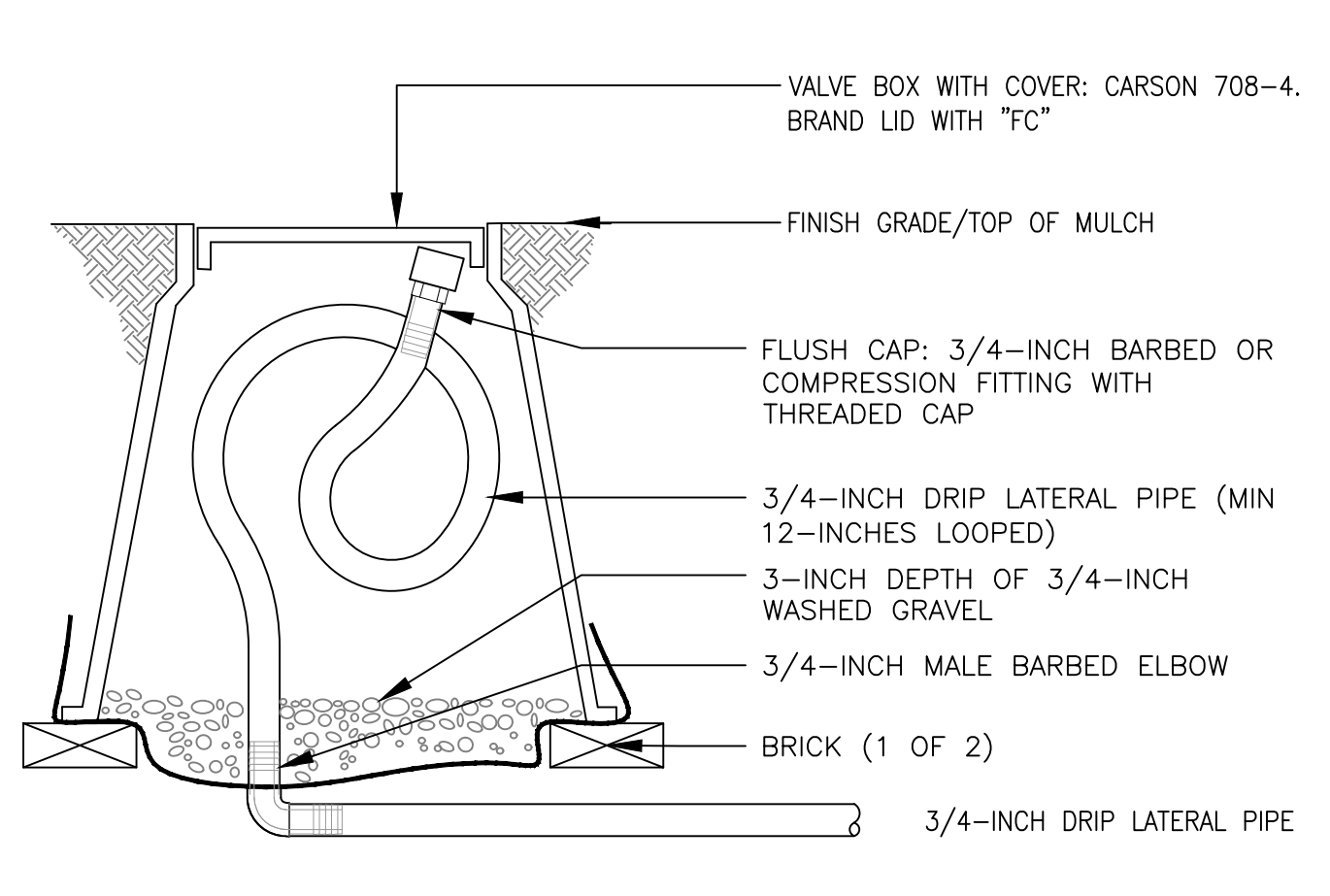
3 BUBBLER ASSEMBLY FOR TREES IN SHRUB BEDS



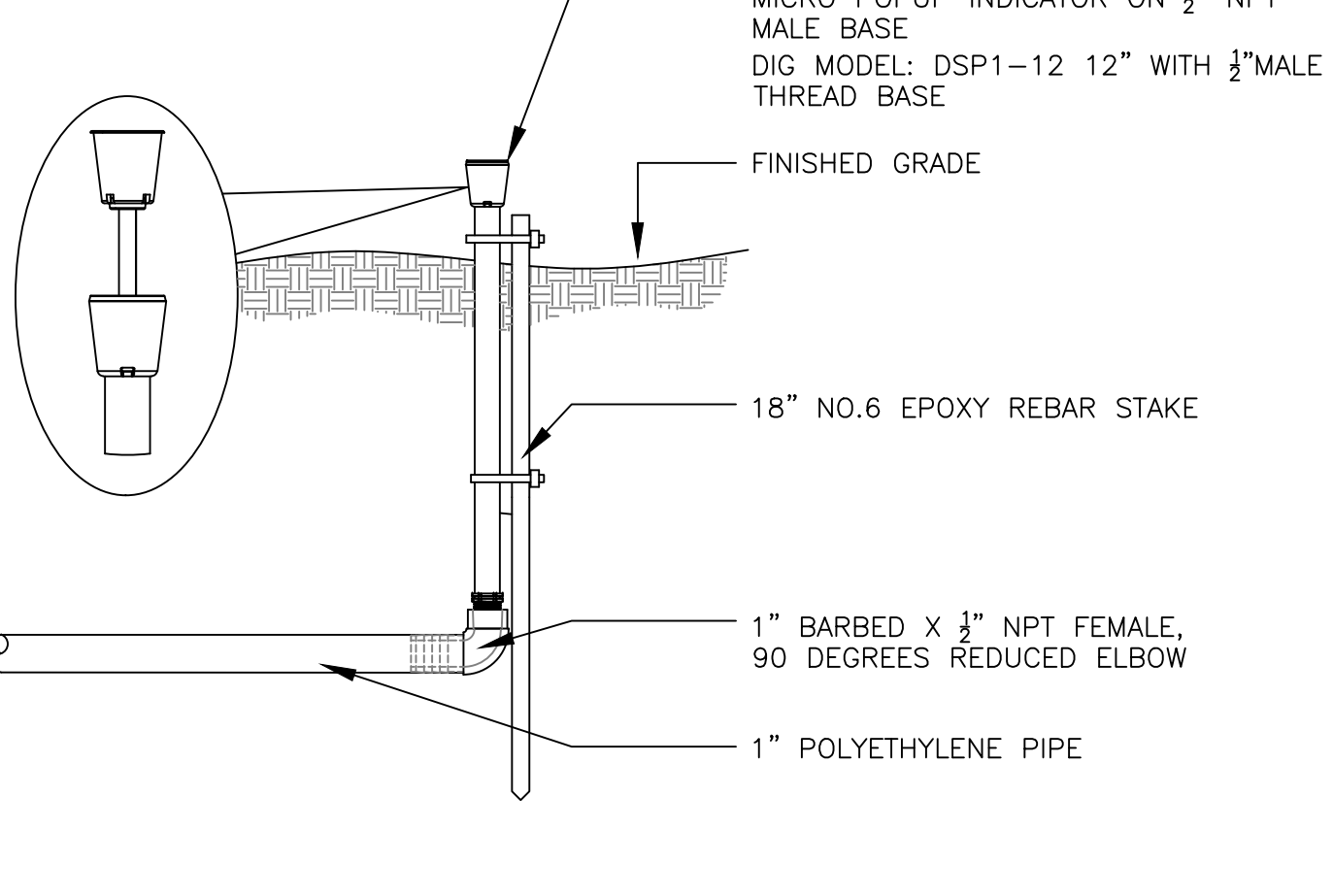
4 SINGLE OUTLET DRIP EMITTER ASSEMBLY



5 MULTI-OUTLET DRIP EMITTER ASSEMBLY FOR TREES IN BEDS



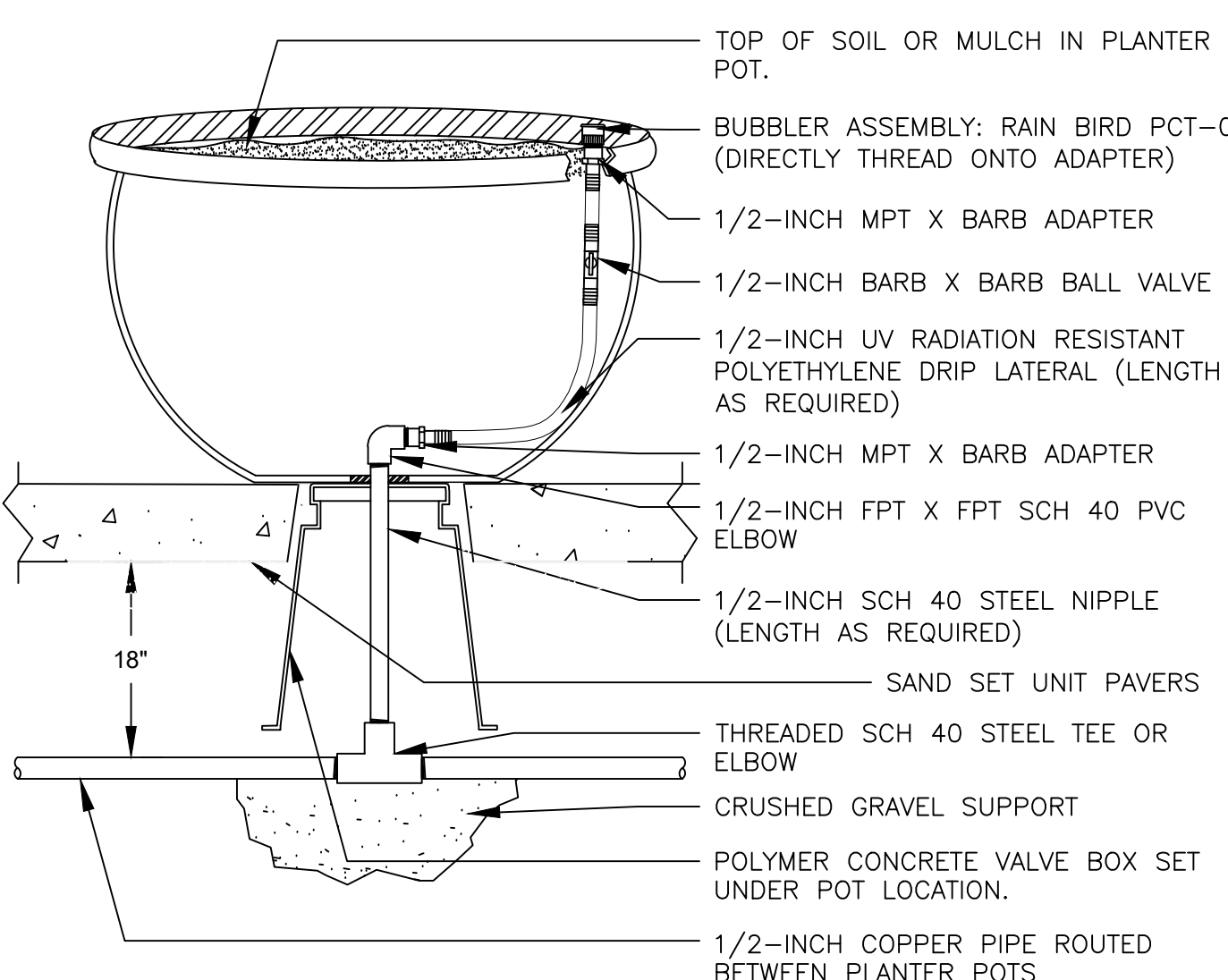
6 DRIP FLUSH CAP ASSEMBLY



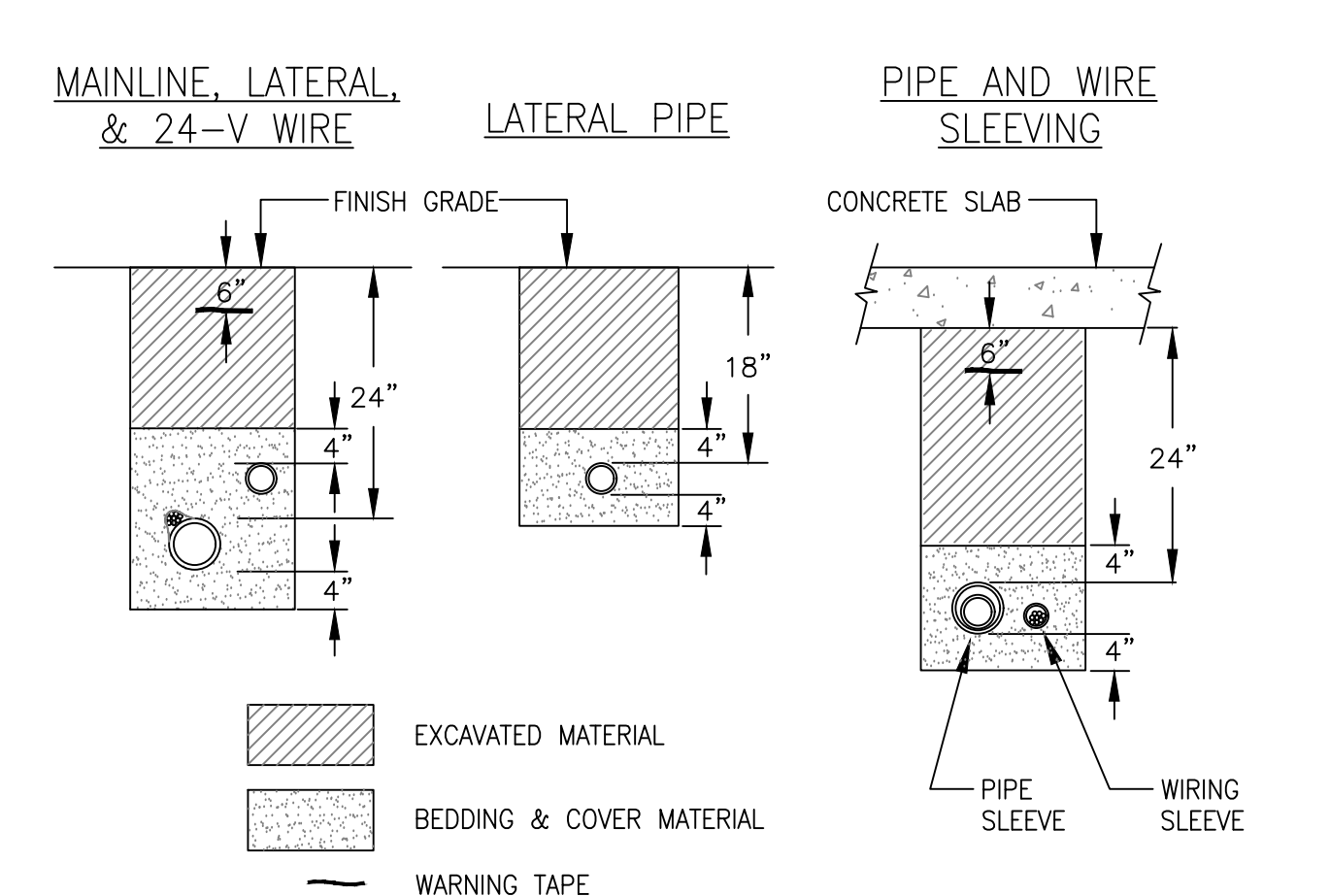
7 DRIP SYSTEM OPERATION INDICATOR

PLANT TYPE	EMITTERS PER PLANT	GPH PER EMITTER	TOTAL GPH PER PLANT
TREES 2" CAL	4 SINGLE	1 GPH	4 GPH
LARGE SHRUBS 5 GAL	2 SINGLE	1 GPH	2 GPH
SMALL SHRUBS 1 GAL	1 SINGLE	1 GPH	1 GPH
GC/PERENNIAL	1 SINGLE	1 GPH	1 GPH
CACTI	1 SINGLE	0.5 GPH	0.5 GPH

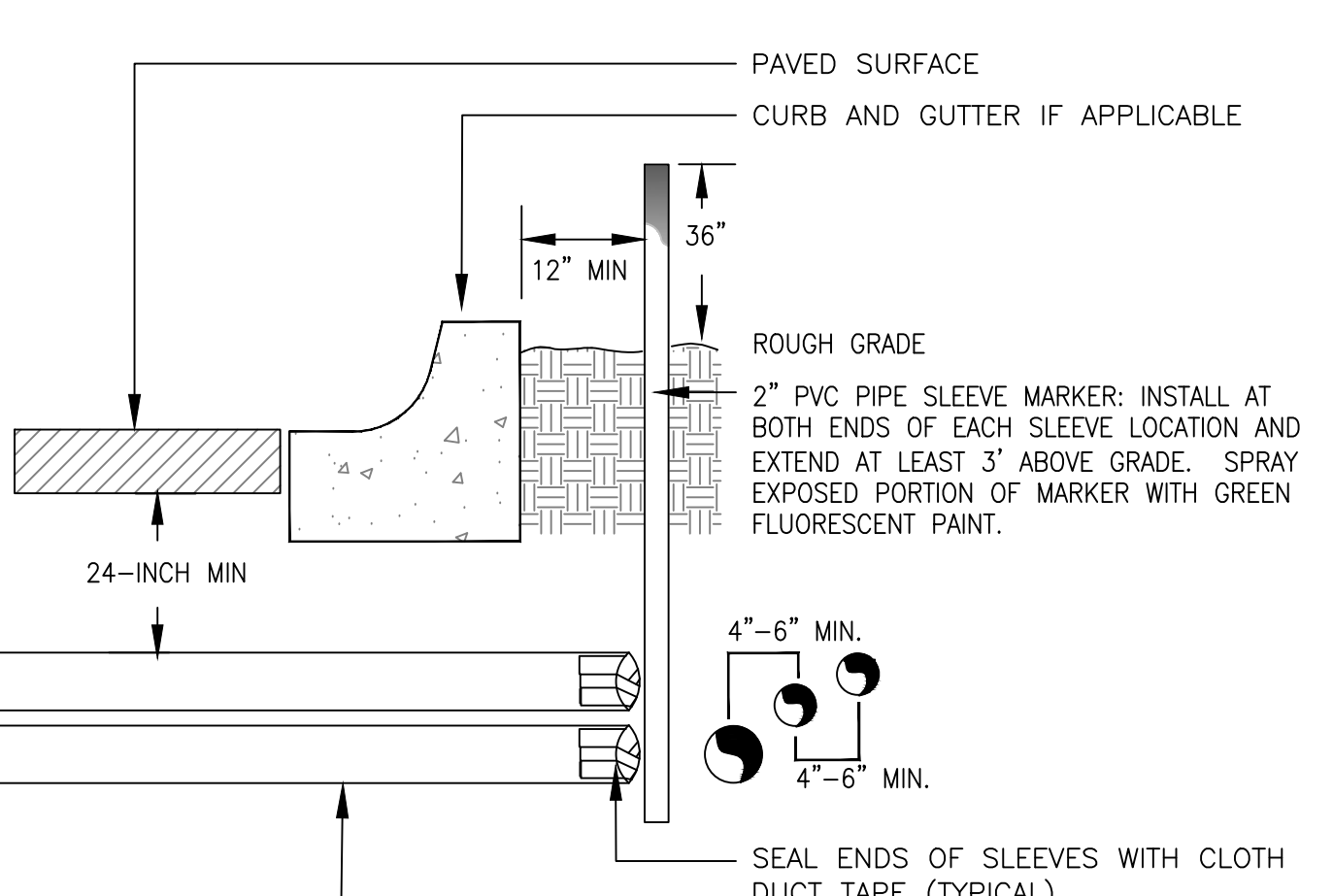
8 EMITTER SCHEDULE



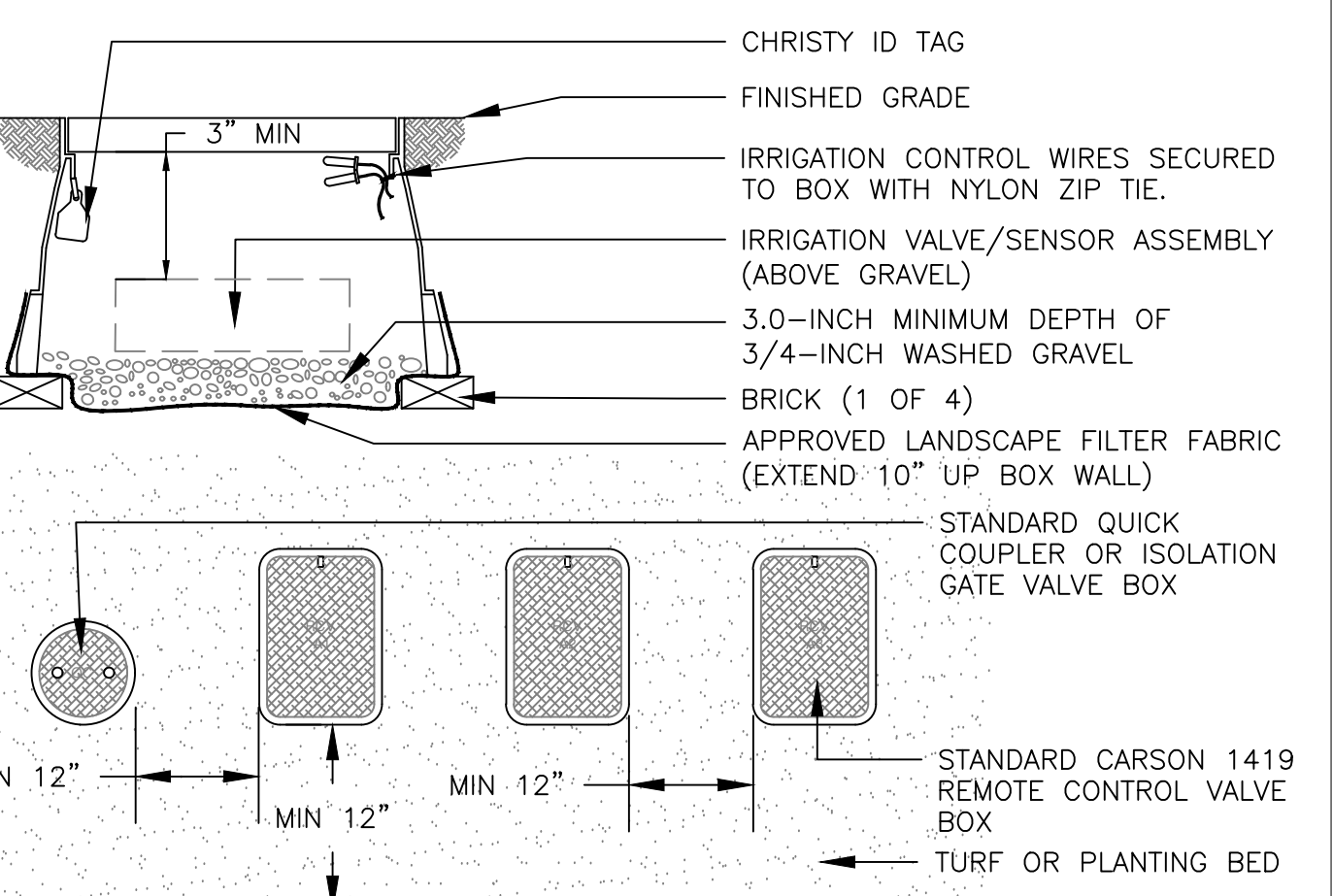
9 POTTED PLANT DRIP ASSEMBLY



10 TYPICAL TRENCHING DETAIL



11 TYPICAL SLEEVING DETAIL

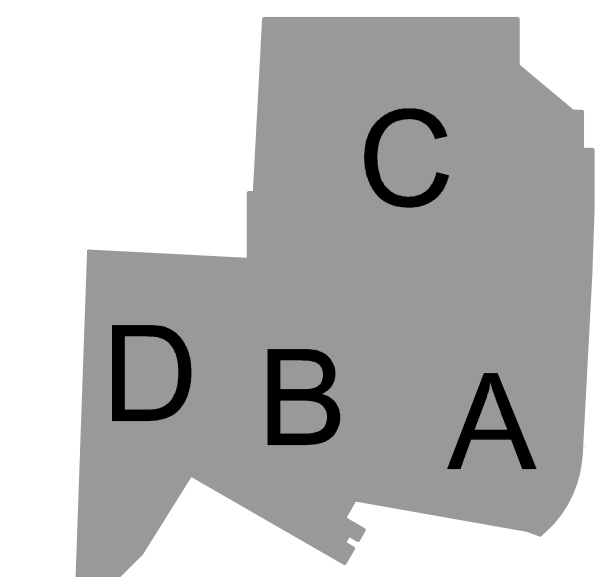


12 TYPICAL VALVE BOX INSTALLATION

SHEET NOTES

GENERAL NOTES

KEY PLAN



ALTEERRA east west partners

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street Suite 150
Denver, CO 80202
United States

1390 Lawrence Street Suite 100
Denver, CO 80204
Tel 303.595.5855 Fax 303.825.6823

141 9th Street PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

1390 Lawrence Street Suite 100
Denver, CO 80204
Tel 303.623.5186

14143 Denver West Pkwy Suite 300
Golden, CO United States
Tel 303.431.6100

14143 Denver West Pkwy Suite 300
Golden, CO United States
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303 W. DRAVE RD, SUITE 204
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5/19/2021

Project Name
SSRC | BASE AREA IMPROVEMENTS

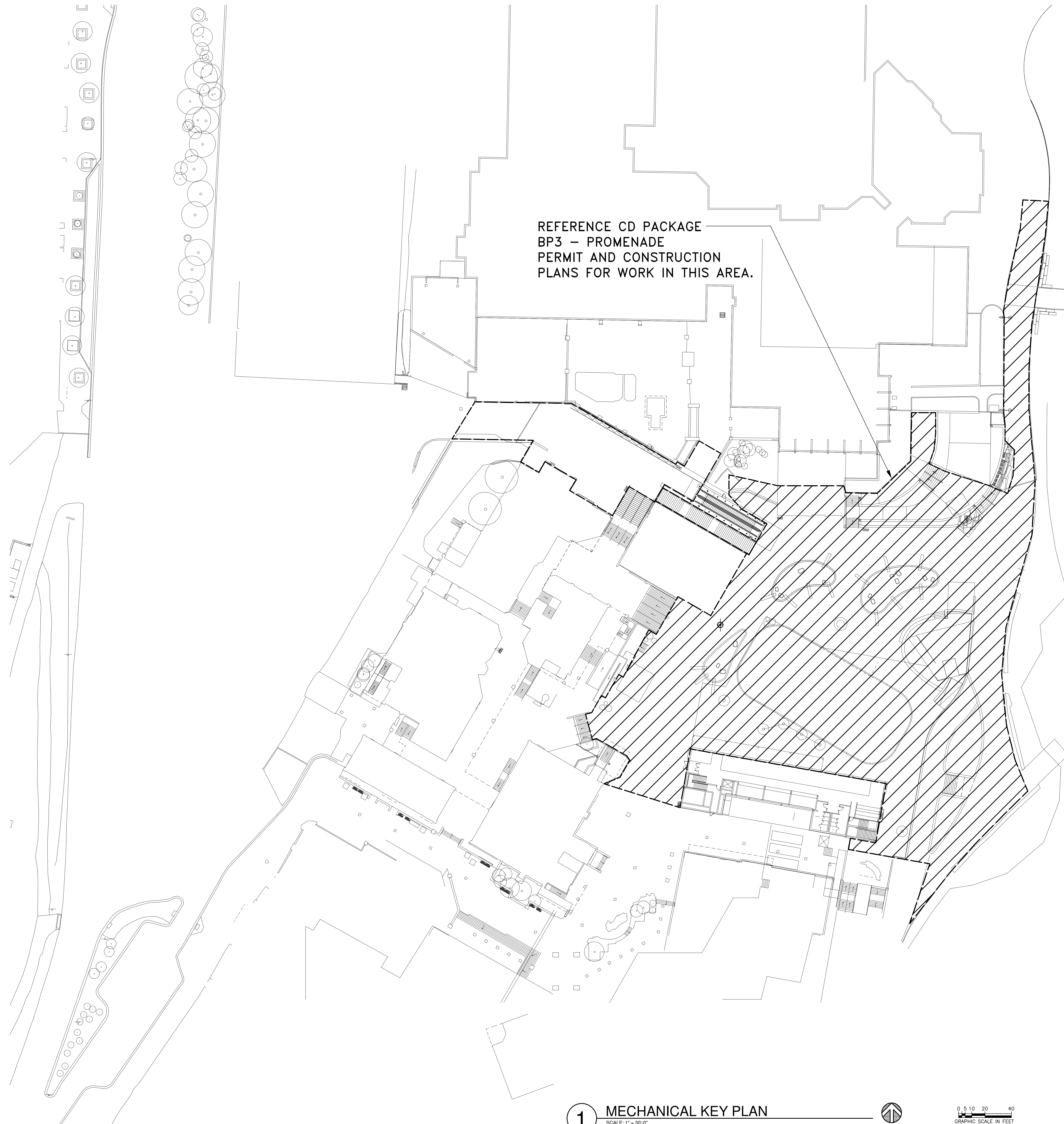
Project Number
003.7835.000

Description
IRRIGATION LEGEND AND NOTES

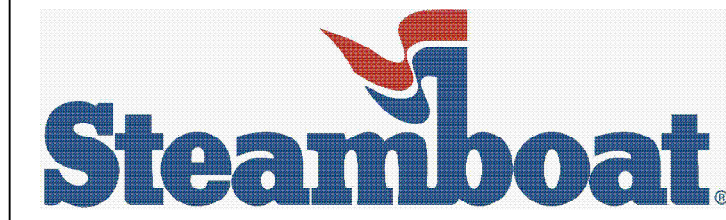
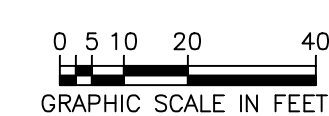
Scale

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2021-1A-M0-01 - PROMENADE - KEY PLAN NS 05-18-21 003.1



1 MECHANICAL KEY PLAN
SCALE: 1" = 30'-0"



ALTERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th
Suite 150
Denver, CO 80202
United States
Tel 303.595.6585
Fax 303.825.6823



141 9th Street
PO Box 774943
Steamboat
Springs, CO
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence
Suite 100
Denver, CO 80204
Tel 303.623.5186



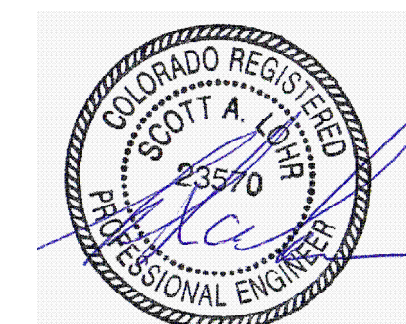
12499 West
Calleaver Road, CO
80268 United States
Tel 303.431.6100

14143 Denver
Blair Road
Golden, CO
United States
Tel 303.421.6655

LOHR DESIGN GROUP
Mechanical
Engineers
19026 East Hickock Dr.
Parker, Colorado 80134
Tel 303.870.5170

Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



5/19/2021

Project Name
BP3 PROMENADE PERMIT
AND CONSTRUCTION

Project Number
003.7835.000

DW Project Number
6466

Description

KEY PLAN

1A-M0-01

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MECHANICAL SPECIFICATIONS:

GENERAL

1. Follow all applicable Codes and Ordinances. Pay all fees, permits, and attain the same.
2. All equipment, insulation, installation, and controls to meet adopted Energy Code.
3. Visit site and ascertain existing conditions prior to bid.
4. The information presented on the drawings are diagrammatic and are not to be scaled. The drawings do not necessarily represent all elbows, duct extensions, offsets, hangers, etc. required for a complete working system. Absolute accuracy is not guaranteed, and the contractor shall obtain and verify exact locations, measurements, levels, space requirements, potential conflicts with other trades, etc. The contractor shall satisfactorily adapt his work to the actual conditions of the job.
5. As-built scale drawings shall be submitted to Mechanical Engineer at completion showing all piping, duct, and equipment changes.
6. Shop drawings shall be submitted on all valves, fixtures, insulation, G.R.D.'s and equipment for response prior to ordering. Clearly note any deviation between submitted items and specified items on the cover sheet of the submittal. Failure to submit may cause items to be rejected and replaced at the contractors' expense. Product equivalency shall be determined by the engineer. If a product submitted as an equivalent is deemed unacceptable to the engineer, the specified product shall be provided at no extra cost to the project. Submittals shall include revised and supplemented control diagrams. The contractor shall be responsible for coordinating clearance, dimensions, electrical and other utility requirements, and connections to other work.
7. This Contractor is responsible for verifying all field conditions prior to the purchase of any materials and the commencement of any work and is to notify the Architect of any discrepancies after resolution.
8. Provide Owner "Operating Instructions" for all systems and equipment, including manufacturer's maintenance manuals. Include approved equipment submittals, equipment start-up reports, lubrication, filter types and sizes, balance report, starting and stopping procedures, and list service contractor's 24-hour telephone numbers.
9. Provide factory authorized start-ups and written start-up reports on all equipment.
10. The contractor shall contact the local building department, gas utility, water department, sanitation district and health department prior to starting work.
11. Guarantee all labor and equipment for a minimum of one year from the date of acceptance by owner.
12. The drawings are diagrammatic and show certain physical relationships which must be established within this Division's work and its interface with other work. Establishing this relationship in the field is the exclusive responsibility of the contractor. This division shall coordinate its work with all divisions of the work and adjust its work as required by the actual conditions of the project. Notify the Architect of any conditions that may affect layout for resolution prior to installation.
13. Certain systems require engineering of installation details by contractor. Unless fully detailed in the contract documents, such engineering is the exclusive responsibility of the contractor.
14. It is the contractor's responsibility to determine where clearances are limited, and where installation drawings or schematics, "construction drawings", or coordination drawings may be required. The contractor shall prepare all such coordination drawings as part of the base contract. Such drawings may be submitted to the architect/engineer for record and comment (at the contractor's option).
15. Examine the contract documents of all trades.
16. Coordinate necessary equipment, ductwork, and piping locations so that the final installation is compatible with the materials and equipment of the other trades. Coordinate and adjust all work between trades and existing conditions to accomplish a neat, integrated, and efficient installation.
17. As necessary, prepare shop drawings for installation of all new work before installation to verify coordination of work between trades.
18. Conceal all work in finished areas.
19. Cut and patch to match adjacent areas. No structural member shall be cut or notched without structural engineer's written approval.
20. Electrical Coordination
- a. Verify the electrical service provided by the electrical contractor before ordering any mechanical equipment requiring electrical connections.
- b. Provide high efficiency motors with 1.15 service factor on all equipment, motors shall be capable of operating continuously at 115° F under job site conditions and altitude.
- c. Unless noted otherwise, all mechanical equipment shall be provided with NEMA switch and starter or VFD compatible with equipment and Building Management System (BMS). Starters and VFDs shall be provided by this Division unless in a motor control center. All disconnects shall be furnished by the Electrical Division. Notify engineer of any discrepancies prior to bid.
- d. The electrical power for certain equipment provided under this Division of the work has not been specifically indicated on the electrical drawings and must be provided by field coordinated by the trade requiring such power. It is not permissible to utilize "spare" power from adjacent power circuits to serve any of these loads. All power must come from dedicated circuits.
21. Suspend each trade's work separately from the structure. Ductwork shall be held tight to structure except where otherwise shown.
22. Install all equipment and materials in accordance with manufacturer's recommendations unless specifically indicated otherwise or where local codes or regulations take precedence.
23. Provide manufacturer's recommended service clearance all around all equipment requiring

- some.
24. Provide for safe conduct of the work, careful removal and disposition of materials and protection of property which is to remain undisturbed.
25. Insulation, all installed insulation shall meet or exceed ASHRAE Standard 90.1, and the adopted version of the IECC. For insulated piping, provide hangers of size to fit outside insulation. Seal all piping which is normally colder than ambient with vapor barrier rated mastic. All insulation materials shall conform to ASTM 84, NFPA 50A and 205, and UL 723 not to exceed ratings of 25 flame spread and 50 smoke developed.
26. Fireproof all penetrations of rated floor/wall/ceiling/roof assemblies. Fireproofing and installation to be UL classified and ICBQ approved, suitable for moisture and vibration. Meta caulk by Rectoseal or equal. Install per all manufacturer's recommendations.
27. Submit fire stop schedule by manufacturer per the boiler room conditions.
28. Provide access doors for all equipment, valves, cleanouts, actuators, and controls which require access for adjustment or servicing, and which are in otherwise inaccessible locations. For equipment located in "accessible locations" such as lay-in ceilings: Locate equipment to provide adequate service clearance for normal maintenance without removing architectural, electrical, or structural elements such as the ceiling support system, electrical fixtures, etc. "normal maintenance" includes but is not limited to: filter changing; greasing of bearings; using P/T ports for pressure or temperature measurements; servicing control valves and servicing control panels.
28. Provide nickel-plated floor, wall, and ceiling escutcheons of adjustable type on all pipes passing through walls, partitions and floors after painting is completed.

MECHANICAL

1. Identify all equipment as to the area served by the equipment.
2. All mechanical systems, piping, valves, and equipment shall be purchased and installed per the boiler room conditions.
3. Receive, uncrate, assemble, insure, and install in conformance to Manufacturers' recommendations all equipment furnished by this contract and furnished by the Owner.
4. Plaza Insulation:
The on-grade plaza system shall include an insulation layer. The insulation shall have a minimum R-Value of 5.0 at 75°F and a compressive resistance as called for on the drawings. DoiPont? Styrofoam? Brand Highload Extruded Polystyrene (XPS) Foam insulation or equivalent. The insulation shall be a closed-cell foam insulation designed for use in low-temperature (freezer floor) applications, highways, airport runways, bridge abutments, parking decks, utility lines, ice rinks and plaza decks.
5. Drainage Board:
Where called for in the plans a drainage board layer shall be installed. The drainage board shall be a composite produced from a high compressive strength polystyrene core and a Mirafi 140N nonwoven filter geotextile which is bonded to one side. The composite shall have a thickness of .4" and a compressive strength of 18,000 psf. The listed flow rate shall be 21 gpm per foot. TenCate Geosynthetics G100N G-Series drainage composite or equivalent.
6. Landscape fabric:
Where called for in the plans a landscape fabric shall be installed. The fabric shall be a nonwoven product made of polypropylene fibers formed into a stable network so that the fibers retain their relative position. The fabric shall be inert to biological degradation
TenCate Mirafi 140N or equivalent.
7. Piping Materials:
Direct Bury Pre-Insulated Piping: Direct bury pre-insulated pipe shall be Insulplex, as supplied by Rehau or approved equal. Carrier pipe shall be: Crosslinked polyethylene (PEX) and shall conform to the requirements of one or more of the following: ASTM F876, ASTM F877, DIN 16892 and/or DIN 16893. PEX carrier pipe shall have a minimum degree of crosslinking of 70% when tested in accordance with ASTM D2765, Method B, and shall be capable of continuous operation at 200°F. The piping shall have an oxygen diffusion barrier, a coextruded barrier layer that limits oxygen diffusion through the PEX carrier pipe to less than 0.32 mg/m2/dat 104°F temperature, as defined by DIN 4726, shall be applied to the PEX carrier pipe. The insulation shall completely fill the annular space between the service pipe and jacket and shall be completely bonded to both. Thermal insulation shall be made from closed-cell polyurethane foam. Minimum density to be 3.5 lb/ft3, measured in accordance with ASTM D1622. Closed cell structure to be minimum 90%, in accordance with ASTM D2856. Closed cell foam insulation shall have a maximum thermal conductivity of 0.02 BTU/hr-ft2-F, measured in accordance with ASTM C177. The outer protective jacket shall be corrugated seamless polyethylene completely encompassing and protecting the insulation from moisture and damage, designed for H-20 loading at a burial depth of 2-ft minimum. Permanently mark each buried main to identify supply and return piping. The outer casing shall be marked with the following information, repeated no less than every 5 feet (1.5 meters):
1. Manufacturer name or trade name
2. Carrier pipe nominal size and Standard Dimensional Ratio (SDR)
3. Minimum bend radius
4. Temperature and pressure ratings
5. Footage markings
- Install each run of piping with a locating wire in the same trench. Test all piping prior to burying. Fittings: Mechanical fittings to be of compression nut or compression-sleeve style, manufactured of metal suitable for the fluid application, in a size suitable for the PEX carrier pipe dimensions. Fittings with Solder-joint Ends: Solder-joint end dimensions shall be in accordance with ASME B16.18, ASME B16.22 or MSS SP-104. Tapered Threaded Ends: Fitting threads shall be right-hand, conforming to ASME B1.20.1, and shall be tapered threads (NPT).

Compression Nut Fittings: Mechanical compression nut fittings to consist of a barbed insert, a compression ring, and a compression nut. Fittings must meet the temperature and pressure performance requirements of the PEX carrier pipe.

Compression-Sleeve Fittings: Mechanical compression-sleeve cold-expansion fittings to consist of a metal ribbed insert and a metal compression-sleeve. Fittings must meet the temperature and pressure performance requirements of the PEX carrier pipe.

Snowmelt tubing shall be with an oxygen diffusion barrier. Snow and ice melt system pipe shall be high-density crosslinked polyethylene manufactured using the high-pressure peroxide method of crosslinking (PEXo). Pipe shall conform to ASTM F876, ASTM F877 and CSA B137.5. Pipe shall be rated for continuous operation of 100 psi gauge pressure at 180°F temperature (690 kPa @ 82°C), and 80 psi gauge pressure at 200°F temperature (550 kPa @ 93°C).

Pipe shall have a co-extruded oxygen diffusion barrier capable of limiting oxygen diffusion through the pipe to less than 0.10 mg/4/day at 104°F (40°C) water temperature, in accordance with DIN 4726. The minimum bend radius for cold bending of the pipe shall be not less than five (5) times the outside diameter. Bends with a radius less than this shall require the use of a bending template as supplied by the pipe manufacturer, and/or hot air.

Pipe to have a Flame Spread Index of less than 25, and a Smoke Developed Index of less than 50 when tested in accordance with ASTM E84 (in U.S.) or CANULC S102.2 (in Canada). In any case where the pipe does not conform to these standards, appropriate piping insulation shall be installed in order to meet the standard. Tubing sizes shall be as called out on the plans. All tubing in the snow melted areas shall be installed without fittings after the manifolds. Manifolds to be copper. Supply side manifolds to come with isolation and balancing valves for each loop and connections for 3/4" PEX tubing. Return side manifolds shall come with isolation valves for each loop and connections for 3/4" PEX tubing. Each 2" copper manifold shall have a 2" shutoff valve and a temperature control valve on the supply side and a 2" shutoff valve and a balancing valve on the return side. All tubing, fittings, and manifolds shall be installed per the manufacturer's instructions.

All buried copper piping shall be type K. Buried piping shall be fully wrapped for cathodic Protection, use Protecto Wrap Tape 200--35 4" wide or equivalent.

Underground and Under Slab Gas Piping

Piping - TracPipe PSII Underground piping shall consist of 300 type stainless steel CSST with an integral polyethylene sleeve. The piping system shall be designed to withstand superimposed loads. The sleeve shall have internal vent channels running lengthwise to direct any leakage along the pipe to the end fitting.

Fittings -TracPipe PSII fittings shall be made of yellow brass and be tested and listed by CSA International for concealed use. Joints shall be a metal-to-metal seal with no gaskets.

Installation - For gas piping under building slabs, requirements for Plumbing, Mechanical and Fuel Gas Codes shall be followed for encasement in non-metallic conduit with venting to the atmosphere. The construction of TracPipe PSII pre-sleeved system shall provide the encasement and venting capabilities required by codes.

Joints- Underground fittings are not permitted between the above grade manifold and the termination at the utility box. The piping system shall be marked by the manufacturer with the word "GAS" in black letters every two feet. Do not paint, stencil, or apply unapproved labels to the piping system. Flexible gas piping shall be bonded in accordance with the National Electrical Code NFPA 70 Article 250.104 and the National Gas Code NFPA 54, and any local requirement which may exceed the national codes. If bonding is required, a bonding clamp must be attached to the brass fitting or to a black pipe component in the same electrically continuous gas piping system. The corrugated stainless-steel portion of the gas piping shall not be used as a bonding attachment under any circumstance.

8. Balancing
- The Mechanical Contractor shall procure the services of an independent testing and balancing firm specializing in this work. The firm must have a Registered Professional Engineer, an AABC Certified Test and Balance Engineer, or a NEBB Certified Testing, Balancing and Adjusting Supervisor, who is an employee or principal of the firm, in charge of the work. All work must be done under the direct supervision of and the results attested by the person listed above. Sequence work to commence after completion of systems and start-up procedures and schedule completion of work before Substantial Completion of Project. Testing and Balancing Contractor shall visit the site and coordinate with Mechanical Contractor to make sure all items such as: thermometer wells, pressure test cocks, access doors, etc., are furnished and installed as required to allow tests and adjustments to be made as described in this Section. The Mechanical Contractor shall provide all such devices required to allow the balancing to be accomplished.
- Testing and balancing shall not begin until the systems have been completed and are in full working order. Put all equipment into full operation and continue operation of same during each working day of testing and balancing. Preliminary testing, adjusting and balancing requirements shall be ascertained prior to the commencement of work through a review of available plans and specifications for the project. In addition, visual observations at the site during construction shall be made to determine the location of required balancing devices and that they are being installed properly for the need.
- Before any balance work is done, the system(s) shall be checked for the following:
- Equipment is operable and in a safe and normal condition.
 - Proper pump rotation.
 - Excessive equipment vibration.
 - Strainer baskets are clean and in place.
 - Service and balance valves are open.
 - Proper control valve installation and operation.

Proper flow meter and check valve installation.

All control valves shall be open at this time.

Promptly report defects or deficiencies noted during balance or abnormal conditions in the mechanical system which prevent system balance to the appropriate responsible person.

Make special note of any discrepancy between tabulated conditions and specified conditions including, but not limited to, missing items, non-functioning items, items without final connections, etc., and call to the pertinent Contractor's attention. Retance and re-tabulate information as required by the Consulting Mechanical Engineer to provide a properly performing building. Beginning of work means acceptance of existing conditions. Adjust and balance all systems within +10% to -5% of design flow rates. Check, adjust and balance all systems to meet the design conditions and tabulate all information on acceptable forms. All systems shall be checked for proper performance during design conditions, both heating and cooling. Recorded data shall represent actual measured or observed condition. Affinity or fan law conversion to obtain readings is not allowable. Permanently mark settings of valves, dampers, and other adjustment devices allowing settings to be restored.

Set and lock all memory stops. Leave systems in proper working order

Hydronic balance:

Adjust water systems to provide required or design quantities.

Hydronic Systems with Meters. The system shall be balanced using calibrated valves or flow meters to determine flow rates. On completion of the balance, the following information shall be recorded in the report: Flow meter or calibrated valve size and brand, required flow rate and pressure drop, valve settings on meters or valves with a readable scale, flow rate in both full coil flow and full bypass modes.

Hydronic Systems without meters (thermal or terminal rated pressure balance). The system shall be balanced proportionally to the terminal ratings. On completion of the balance the following information shall be recorded in the report: Design entering and leaving water temperature/pressure drop, final balance entering and leaving water temperature/pressure drop. Adjust systems to provide specified pressure drops and flows through heat transfer elements prior to thermal testing. Perform balancing by measurement of temperature differential in conjunction with air balancing. Balance system with automatic control valves fully open to heat transfer elements. Control valve bypass loops shall be set with the balancing valve to provide equal flow in either mode. Confirm in writing. Adjust hydronic systems by means of balancing valves or fittings. Do not use service or shut-off valves for balancing.

MANIFOLD BOXES

Manifold boxes shall be sized by the contractor to hold the size snowmelt piping manifold Required. The box shall be medium duty rated, ANSI/SCTE-77, Tier 15. FRP construction with a flush polymer concrete cover. Minimum depth shall be 18" with the actual depth determined by the contractor. The box shall be constructed with fiberglass resin sidewalls and a polymer concrete ring. Straight of sloped walls are acceptable. All openings cut into the box shall be smooth and all piping extending through the cut openings shall be protected from damage. Install the box in accordance with the manufacturers instructions for a stable safe installation. OLDCASTLE FRP or equivalent.

UTILITY ACCESS COVERS

Covers shall be as manufactured by Undercovers. The cover shall consist of a 316 or 304 Stainless steel tray and frame. Each component shall be manufactured to work together as a unit. The cover shall be reinforced to support a minimum live load of 16,000 LBF per ASHOTO M306. Removal of the cover shall be smooth and easy with controlled operation throughout the entire opening and closing. The operation of the cover shall not be affected by temperature. The larger models will have a removable cross beam under and/or between the trays. This cross beam will rest within the frame. Cover shall be fitted with the proper frame and cross beams. The lifting lugs will have a plastic insert or metal plug to seal the surface opening. The mounting hardware shall be Stainless Steel concrete bolts or mushroom spikes. Powers Mushroom spike 6646 and Powers Wedge-bolt, 3/8". 7705N or equivalent. Provide one removable exterior lift tool, as manufactured by the Utility cover manufacturer.

Submit the manufacturer's product data, size and location for each cover. Submit shop drawings including profiles, accessories, location, adjacent construction interface, and dimensions.

Warranty: Provide manufacturer's standard warranty. Materials shall be free of defects in materials and workmanship for a period of five years from the date of purchase. Should a part fail to function in normal use within this period, manufacturer shall furnish a new part at no charge. Submit an executed copy of manufacturer's standard warranty.

Install products in strict accordance with manufacturer's instructions and approved submittals. Examine substrates and openings for compliance with requirements for installation tolerances and other conditions affecting the installation. Proceed with installation only after installation conditions have been corrected. Locate the units level, plumb, and in proper alignment with adjacent work.

TEMPERATURE CONTROLS:

The temperature control system shall be a stand-alone system with BacNet interface to tie into other control systems if required. The system shall include the snow/ ice detection along with slab temperature sensing as shown on the drawings. A control panel shall provide a point where all the sensors can be read and the three-way control valves on the supply pumps can be modulated. The temperature control contractor shall be responsible for all the components of the control system including, but not limited to, the actuators on the three-way Beilmo valves supplied with the pump skid, snow, ice, and temperature sensors, outdoor temperature sensor, pvc control wire conduit, controllers, pipe temperature sensors and wells.

Sequence: All temperatures listed in this sequence shall be adjustable by the operator/owner. The snowmelt supply pumps (SMP-1 through SMP-9) shall run whenever the outside air temperature is below 42°F. The three-way valve actuator shall slowly modulate the supply water temperature (148°F max) to satisfy the slab/surface temperature sensor(s) associated with each pump. When there is no moisture sensed, the slab shall be idled at 32°F. This temperature shall be individually adjustable for each pump/zone. Upon sensing moisture, the system shall increase the slab temperature to 38°F. This temperature shall also be individually adjustable for each pump/zone. This temperature shall be maintained for a period of 2 hours (add) at which time if moisture is present the slab/surface temperature shall be allowed to return to the idle setpoint. The pumps shall shut-off whenever the outside temperature rises to 45°F or the slab/surface temperature of the lowest temperature sensed in that zone is 3 degrees above idle setpoint.

If one pump/zone is served by more than one snow, ice sensor (SIS) then the sensor with the lowest reading shall control the zone. The system shall be setup so that any sensor can be assigned to any zone for control.

SMP-1 is controlled with SIS #5.

SMP-2 is controlled with SIS #4, #2, #1.

SMP-3 is controlled with SIS #1.

SMP-4 is controlled with SIS #4, #P1.

SMP-5 is controlled with SIS #T1.

SMP-6 is controlled with SIS #6, #7.

SMP-7,8, &9 is controlled from a future group of sensors.

The Sensors shall be Tekmar 90 type installed in a type 91 socket.

The control wiring shall be in PVC conduit below grade and match the building spec for all conduit inside the building. Install a temperature control panel/enclosure. This enclosure will house a fanless industrial host machine running Windows 10 IOT. Install Niagara4 Supervisor software to be the front end/ graphical user interface. Connect to a Distech field controller using BacNet IP. This controller will accomplish the sequence of control.



AL TERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States

Tel 303.595.8685
Fax 303.825.6623

141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.3494

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186

12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100

14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6665

DESIGNWORKSHOP

me
Engineering

LOHR DESIGN GROUP

Mechanical Engineers

19026 East Hickock Dr.
Parker, Colorado 80134
Tel 303. 870.5170

MECHANICAL LEGEND								
SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	CWS	CONDENSER WATER SUPPLY			BALANCE/PLUG IN RISER			VACUUM BREAKER
	CWR	CONDENSER WATER RETURN			GATE VALVE IN RISER			THERMOMETER
	CS	CHILLED WATER SUPPLY			TEMP. CONTROL - 2-WAY			PRESSURE GAUGE
	CR	CHILLED WATER RETURN			TEMP. CONTROL - 3-WAY			FLOW SENSOR
	CHS	DUAL TEMPERATURE SUPPLY			PRESSURE REDUCING VALVE			DUCT SIZE INDICATING SHEET
	CHR	DUAL TEMPERATURE RETURN			SOLENOID VALVE			METAL DIMENSIONS: FIRST NUMBER WIDTH & SECOND IS DEPTH.
	RS	REFRIGERANT SUCTION			MOTORIZED GATE VALVE			DUCT ELBOW W/ TURNING VANE
	RL	REFRIGERANT LIQUID			WATER BALANCE VALVE			DUCT TEE W/ TURNING VANES
	RDL	REFRIGERANT DISCHARGE			VENTURI			MANUAL DAMPER W/ LOCKING QUADRANT.
	D	DRAIN			REDUCED PRESSURE BACKFLOW PREVENTER			MOTORIZED DAMPER
	HWS	HEATING WATER SUPPLY			GAS COOK			FLEXIBLE DUCT CONNECTOR
	HWR	HEATING WATER RETURN			UNION			SPIN-IN FITTING W/ DAMPER
	HPS	HIGH PRESSURE STEAM			PIPE REDUCER			45° DUCT TAKE-OFF
	HPSR	HIGH PRESSURE STEAM RETURN			STRAINER			DOOR UNDERCUT
	LPS	LOW PRESSURE STEAM			STRAINER W/ BLOWOFF VALVE			FIRE DAMPER
	LPR	LOW PRESSURE STEAM RETURN		F.D.	FLOOR DRAIN			FIRE & SMOKE DAMPER
	PC	PUMPED CONDENSATE		F.S.	EQUIPMENT ROOM DRAIN			SMOKE DAMPER
	FOS	FUEL OIL SUPPLY		F.S.	FLOOR SINK - HALF GRATE			EXISTING FIRE DAMPER
	FOR	FUEL OIL RETURN		F.S.	FLOOR SINK - 1/4 GRATE			RETURN GRILLE
	FOV	FUEL OIL VENT			DRAIN ABOVE			CONNECTION NEW TO EXISTING.
	VAC	VACUUM		R.D.	ROOF DRAIN			FLEXIBLE PIPE CONNECTION
	AIR	AIR		O.R.D.	ROOF DRAIN - OVERFLOW			EXISTING ITEM LINE WEIGHT
	N	NITROGEN			DOWNSPOUT NOZZLE			DEMO ITEM LINE WEIGHT
	DI	DEIONIZED WATER		CO	CLEANOUT - VERTICAL			NEW ITEM LINE WEIGHTS
	DIR	DEIONIZED WATER RETURN		CO	CLEANOUT - HORIZONTAL			DIFFUSER
	FIRE	FIRE		BRK	PIPE CAP			THROW BLOCKING
	CW	COLD WATER			BREAK - MISC.			NECK SIZE
	HW	HOT WATER		VTR	VENT THRU ROOF			SQ. FACE SIZE
	HWC	HOT WATER RECIRCULATE		W H	WALL HYDRANT			DIFFUSER I.D.
	W	WASTE PIPE		H B	HOSE BIBB			SEE DIFFUSER SCHEDULE
	V	VENT PIPE		P#	PUMP			RIGID DUCT
	SAN	SANITARY WASTE			PRESSURE/TEMP. RELIEF			AIR VENT
	ST	STORM PIPE		CO	CLEANOUT - VERTICAL			PIPE GUIDE (SLEEVE)
	GW	GREASE WASTE		CO	CLEANOUT - HORIZONTAL			PIPE EXPANSION JOINT
	GAS	GAS PIPE			PIPE ANCHOR			SMOKE DETECTOR
	OXY	OXYGEN PIPE			BOILER DRAIN VALVE			NOTE: NOT ALL SYMBOLS ON THIS LEGEND ARE NECESSARILY USED ON THIS PROJECT.
		PIPE UP						
		PIPE DOWN						
		PIPE TEE DOWN						
		GATE VALVE						
		GATE VALVE IN GROUND BOX						
		GLOBE VALVE						
		CHECK VALVE						
		AUTO FLOW CONTROL VALVE						
		PLUG VALVE						
		BUTTERFLY VALVE						
		STOP & DRAIN VALVE						
		BALL VALVE						
		BALANCING VALVE						

MECHANICAL SPECIFICATION

1A-M1-01

MECHANICAL LEGEND									
SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION	
—CWS—	CWS	CONDENSER WATER SUPPLY			BALANCE/PLUG IN RISER			VACUUM BREAKER	
—CWR—	CWR	CONDENSER WATER RETURN			GATE VALVE IN RISER			THERMOMETER	
—CS—	CS	CHILLED WATER SUPPLY			TEMP. CONTROL – 2-WAY			PRESSURE GAUGE	
—CR—	CR	CHILLED WATER RETURN			TEMP. CONTROL – 3-WAY			FLOW SENSOR	
—CHS—	CHS	DUAL TEMPERATURE SUPPLY			TEMP. CONTROL – 3-WAY			DUCT SIZE INDICATING SHEET	
—CHR—	CHR	DUAL TEMPERATURE RETURN			3-WAY VALVE			METAL DIMENSIONS, FIRST	
—RS—	RS	REFRIGERANT SUCTION			PRESSURE REDUCING VALVE			NUMBER WIDTH & SECOND	
—RL—	RL	REFRIGERANT LIQUID			SOLENOID VALVE			IS DEPTH	
—RDL—	RDL	REFRIGERANT DISCHARGE			MOTORIZED GATE VALVE			MOTORIZED GATE VALVE	
—D—	D	DRAIN			WATER BALANCE VALVE			WATER BALANCE VALVE	
—HWS—	HWS	HEATING WATER SUPPLY			VENTURI			VENTURI	
—HWR—	HWR	HEATING WATER RETURN			REDUCED PRESSURE			REDUCED PRESSURE	
—HPS—	HPS	HIGH PRESSURE STEAM			BACKFLOW PREVENTER			BACKFLOW PREVENTER	
—HPSR—	HPSR	HIGH PRESSURE STEAM RETURN			GAS COCK			GAS COCK	
—LPS—	LPS	LOW PRESSURE STEAM			UNION			UNION	
—LPR—	LPR	LOW PRESSURE STEAM RETURN			PIPE REDUCER			PIPE REDUCER	
—PC—	PC	PUMPED CONDENSATE			STRAINER			STRAINER	
—FOS—	FOS	FUEL OIL SUPPLY			STRAINER W/ BLOWOFF VALVE			STRAINER W/ BLOWOFF VALVE	
—FOR—	FOR	FUEL OIL RETURN							
—FOV—	FOV	FUEL OIL VENT							
—VAC—	VAC	VACUUM							
—A—	A	AIR		F.D.	FLOOR DRAIN			MOTORIZED DAMPER	
—N—	N	NITROGEN			EQUIPMENT ROOM DRAIN			FLEXIBLE DUCT CONNECTOR	
—DI—	DI	DEIONIZED WATER		F.S.	FLOOR SINK – HALF GRATE			SPIN-IN FITTING W/ DAMPER	
—DIR—	DIR	DEIONIZED WATER RETURN			FLOOR SINK – 1/4 GRATE			45° DUCT TAKE-OFF	
—F—	F	FIRE			DRAIN ABOVE				
—CW—	CW	COLD WATER		R.D.	ROOF DRAIN			DOOR UNDERCUT	
—HW—	HW	HOT WATER		O.R.D.	ROOF DRAIN – OVERFLOW			FIRE DAMPER	
—HWC—	HWC	HOT WATER RECIRCULATE			DOWNSPOUT NOZZLE			FIRE & SMOKE DAMPER	
—W—	W	WASTE PIPE		CO	CLEANOUT – VERTICAL			SMOKE DAMPER	
—V—	V	VENT PIPE		CO	CLEANOUT – HORIZONTAL			EXISTING FIRE DAMPER	
—SAN—	SAN	SANITARY WASTE		BRK	PIPE CAP			RETURN GRILLE	
—ST—	ST	STORM PIPE		VTR	VENT THRU ROOF			CONNECTION NEW TO EXISTING	
—GW—	GW	GREASE WASTE						FLEXIBLE PIPE CONNECTION	
—G—	G	GAS PIPE		W H	WALL HYDRANT			EXISTING ITEM LINE WEIGHT	
—O—	O	OXYGEN PIPE		H B	HOSE BIBB			DEMO ITEM LINE WEIGHT	
—PIPE UP—		PIPE UP		P#	PUMP			NEW ITEM LINE WEIGHT	
—PIPE DOWN—		PIPE DOWN			PRESSURE/TEMP. RELIEF			AIR VENT	
—PIPE TEE DOWN—		PIPE TEE DOWN			PIPE VENT			P-T TAP	
		GATE VALVE			PIPE GUIDE (SLEEVE)			PIPE EXPANSION JOINT	
		GLOBE VALVE			PIPE ANCHOR			SMOKE DETECTOR	
		CHECK VALVE			BOILER DRAIN VALVE			BOILER DRAIN VALVE	
		AUTO FLOW CONTROL VALVE							
		PLUG VALVE							
		BUTTERFLY VALVE							
		STOP & DRAIN VALVE							
		BALL VALVE							
		BALANCING VALVE							

FOR PUMPS AND OTHER SCHEDULES
SEE SHEET 1B-M1-02.

MANIFOLD SCHEDULE								
MANIFOLD BOX	LOCATION	TYPE	ZONE	AREA (SQFT)	GPM FLOW	BOX FLOW	TUBING	OC DISTANCE
1	SKIER PLAZA	BOX	1	1578	23.7	23.7	3/4"	8"
2	SKIER PLAZA	BOX	2A	1865	28	56	3/4"	8"
2	SKIER PLAZA	BOX	2B	1867	28		3/4"	8"
3	SKIER PLAZA	BENCH	3	2060	30.9	30.9	3/4"	8"
4	SKIER PLAZA	BENCH	4A	1100	16.5	39	3/4"	8"
4	SKIER PLAZA	BENCH	4B	1500	22.5		3/4"	8"
5	SKIER PLAZA	BENCH	5A	1505	22.6	42.1	3/4"	8"
5	SKIER PLAZA	BENCH	5B	1300	19.5		3/4"	8"
6	SKIER PLAZA	BENCH	6A	1310	19.7	41.8	3/4"	8"
6	SKIER PLAZA	BENCH	6B	1470	22.1		3/4"	8"
7	SKIER PLAZA	BENCH	7A	1345	20.2	41.2	3/4"	8"
7	SKIER PLAZA	BENCH	7B	1397	21		3/4"	8"
8	SKIER PLAZA	BENCH	8A	1073	16.1	45.2	3/4"	8"
8	SKIER PLAZA	BENCH	8B	1939	29.1		3/4"	8"
9	SKIER PLAZA	BENCH	9A	1260	18.9	44.5	3/4"	8"
9	SKIER PLAZA	BENCH	9B	1705	25.6		3/4"	8"
10	SKIER PLAZA	BENCH	10A	2116	31.7	59.7	3/4"	8"
10	SKIER PLAZA	BENCH	10B	1869	28		3/4"	8"
11	SKIER PLAZA	BENCH	11A	1604	24.1	54.5	3/4"	8"
11	SKIER PLAZA	BENCH	11B	2025	30.4		3/4"	8"
12	SOUTHERN PROM	BOX	12	1990	29.9	29.9	3/4"	8"
13	LOWER PLAZA	BOX	13	1649	24.7	24.7	3/4"	8"
14	LOWER PLAZA	BOX	14	1257	18.9	18.9	3/4"	8"
15	GOLD WALK	BOX	15	1823	27.3	27.3	3/4"	8"
16	GOLD WALK	WALL MOUNT	16	910	13.7	13.7	3/4"	8"
17	GOLD WALK	BOX	17	1592	23.9	23.9	3/4"	8"
18	GOLD WALK	BOX	18	1028	15.4	15.4	3/4"	8"
19	GOLD WALK	BOX	19	1882	28.2	28.2	3/4"	8"
2C	EXISTING PROMENADE	BOX 8 CKTS	2C	FIELD VERIFY	20.8	20.8	5/8"	FIELD VERIFY EXISTING
2F	EXISTING PROMENADE	BOX 6 CKTS	2F	FIELD VERIFY	15.6	15.6	5/8"	FIELD VERIFY EXISTING
5G	EXISTING PROMENADE	BOX 8 CKTS	5G	FIELD VERIFY	20.8	20.8	5/8"	FIELD VERIFY EXISTING
5H	EXISTING PROMENADE	BOX 12 CKTS	5H	FIELD VERIFY	31.2	31.2	5/8"	FIELD VERIFY EXISTING
5I	EXISTING PROMENADE	BOX 10 CKTS	5I	FIELD VERIFY	26	26	5/8"	FIELD VERIFY EXISTING
5K	EXISTING PROMENADE	BOX 9 CKTS	5K		27	27	3/4" NEW	8" NEW TUBING
	EXISTING TIMB. + TORCH	BOX 6 CKTS	TT1	–	15.6	15.6	5/8"	FIELD VERIFY EXISTING
	EXISTING TIMB. + TORCH	BOX 8 CKTS	TT2	–	20.8	20.8	5/8"	FIELD VERIFY EXISTING
	EXISTING TIMB. + TORCH	BOX 10 CKTS	TT3	–	26	26	5/8"	FIELD VERIFY EXISTING
	EXISTING TIMB. + TORCH	BOX 7 CKTS	TT4	–	18.2	18.2	5/8"	FIELD VERIFY EXISTING

ALTERRAeast west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States

Tel 303.595.8585
Fax 303.623.6623

141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186

12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100

14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

LOHR DESIGN GROUP
Mechanical
Engineers
19026 East Hickock Dr.
Parker, Colorado 80134
Tel 303. 870.5170

△	Date	Description
-	2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature

Project Name
BP3 PROMENADE PERMIT AND CONSTRUCTION

Project Number
003.7835.000

DW Project Number
6466

Description

MECHANICAL
SCHEDULES

1A-M1-02

WORK NOTES:

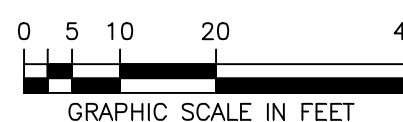
1. CONNECT NEW BURIED INSULATED PEX PIPING TO THE EXISTING PIPING SERVING THE TIMBER AND TORCH PATIO AND AREAS NORTH. FIELD VERIFY SIZE AND LOCATION. REBALANCE THE FLOWS TO EACH OF THE EXISTING MANIFOLDS. CONNECT TO WIRING AND CONDUIT FROM SIS T1 AT THIS LOCATION.
2. CONNECT NEW BURIED INSULATED PEX PIPING TO THE EXISTING PIPING SERVING THE NORTHERN PROMENADE AREA. FIELD VERIFY SIZE AND LOCATION. REBALANCE THE FLOWS TO EACH OF THE EXISTING MANIFOLDS. CONNECT TO WIRING AND CONDUIT FROM SIS P1 AT THIS LOCATION.
3. CONNECT NEW BURIED INSULATED PEX PIPING TO THE EXISTING PIPING SERVING THE SOUTHERN PROMENADE AREA. FIELD VERIFY SIZE AND LOCATION. BALANCE THE FLOWS TO EACH OF THE NEW AND EXISTING MANIFOLDS.
4. BENCH TYPE MANIFOLD LOCATION. THIS BENCH HAS TWO BUILT-IN MANIFOLDS EACH SERVING ONE ZONE. THE MANIFOLD NUMBER IS IN THE BOX.
5. DOUBLE MANIFOLD BOX. THIS BOX CONTAINS TWO MANIFOLDS EACH SERVING ONE ZONE. PROVIDE A WUNDERCOVER ON EACH MANIFOLD BOX BURIED IN THE PLAZA.
6. THIS AREA IS TO BE SERVED FROM A FUTURE MANIFOLD IN THE F+B BUILDING. DO NOT INSTALL THE TUBING.
7. INSULATED PEX PIPING EXTING THE BUILDING BELOW THE STAIRS. INSULPEX BY REHAU. THE SIZE DESIGNATES THE SIZE OF THE CARRIER PIPE. INSTALL PER THE MFG. INSTRUCTIONS IN THE TRENCH SURROUNDED BY SAND. COORDINATE LOCATION WITH EXISTING UTILITIES.
8. THE FOOTPRINT OF THE F + B BUILDING AND THE ICE RINK SHALL NOT HAVE A SNOWMELT SYSTEM.
9. CAP EXISTING BURIED INSULATED PEX PIPING THAT WAS SERVING THE SOUTHERN PROMENADE AREA. FIELD VERIFY SIZE AND LOCATION.
10. PENETRATE INTO THE BELOW GRADE PROMENADE BUILDING. SEE DETAILS ON SHEET 1A-M3-01. PIPING IN THE BUILDING TO BE INSTALLED BY THE SNOWMELT CONTRACTOR. COORDINATE EXACT ROUTE WITH THE PROMENADE BUILDING PLANS AND CONTRACTORS INVOLVED IN THE BUILDING.
11. CONNECT PIPING ROUTED THROUGH THE PROMENADE BUILDING TO BELOW GRADE INSULPEX TO SERVE MANIFOLDS 12, 13, AND 14. SEE WALL PENETRATION DETAILS ON SHEET 1A-M3-01.
12. EXISTING PIPING TO SERVE THE NORTHERN PROMENADE AREA.
13. SEE GOWALK PLAN SET FOR INFORMATION IN THIS AREA.
14. THE 1" RS INSULATION IN THE FIRE LANE AREAS SHALL BE 100 PSI COMPRESSION RATED.
15. RUN PIPING FOR FUTURE MANIFOLD(S) IN THE F + B BUILDING. CAP FOR FUTURE.
16. MECHANICAL EQUIPMENT PAD. SNOWMELT TUBING IS NOT REQUIRED IN THIS AREA.
17. EXISTING SNOWMELT MANIFOLD TO REMAIN. SEE MANIFOLD SCHEDULE FOR REBALANCING.
18. THE 1" RS INSULATION IN THE AREAS ON GRADE WHICH ARE NOT IN THE FIRE LANE SHALL BE 60 PSI COMPRESSION RATED. EXCEPT THE STAGE WHERE 25 PSI RATED INSULATION IS ACCEPTABLE.
19. ALL MANIFOLD BOXES UNDER THE PAVERS SHALL HAVE A WUNDERCOVER. SEE DETAILS.
20. CAP FOR FUTURE CONNECTION.
21. SNOW, ICE AND SLAB TEMPERATURE SENSOR. EXTEND WIRE IN THE CONDUIT BACK TO CONTROLLER IN THE BOILER ROOM.
22. EXISTING SNOW, ICE AND SLAB TEMPERATURE SENSOR. LOCATE CONTROL WIRE CONDUIT. REPLACE UNIT AND EXTEND CONDUIT AND NEW WIRING BACK TO THE CONTROLLER.
23. LAYOUT SNOWMELT PIPING IN THE CAST IN PLACE CONCRETE SEATING STAIR, 2" BELOW THE SURFACE, 2" FROM THE NOSE AND 8" ON CENTER. A TOTAL OF 4 ROWS OF TUBING SHOULD BE USED IN EACH SEAT.

MANIFOLD BOX SCHEDULE

- SINGLE MANIFOLD BOX
- ⊠ DOUBLE MANIFOLD BOX
- BENCH TYPE DOUBLE MANIFOLD BOX
- # MANIFOLD BOX NUMBER
- XX ZONE DESIGNATION

1 MECHANICAL PROMENADE SITE PLAN

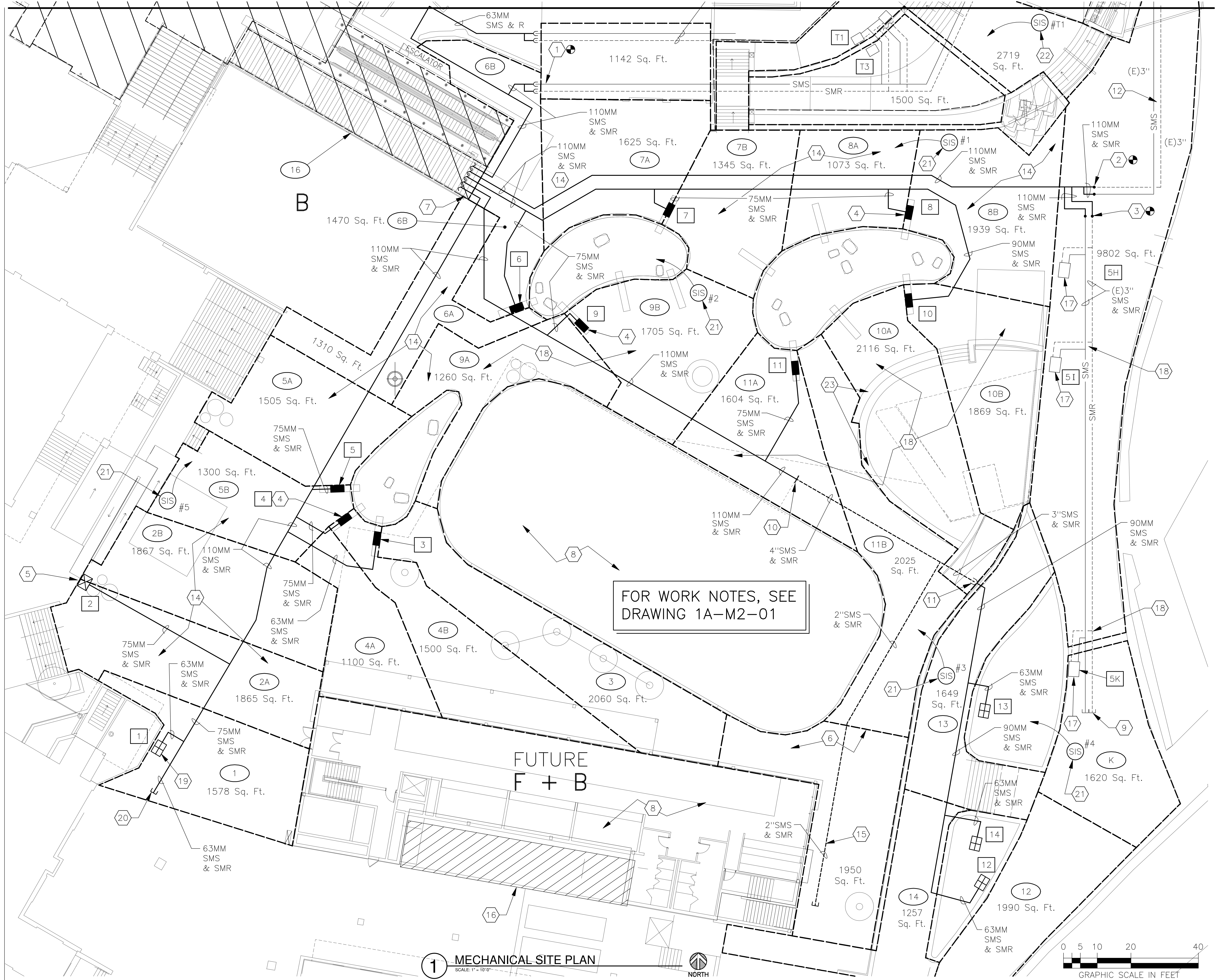
SCALE: 1" = 20'-0"



MECHANICAL
SITE PLAN

1A-M2-01

2020-1A-M2-02-PROB-HWS-SITE-PLAN-120 RGS-05-18-21 13.07



Date	Description
2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

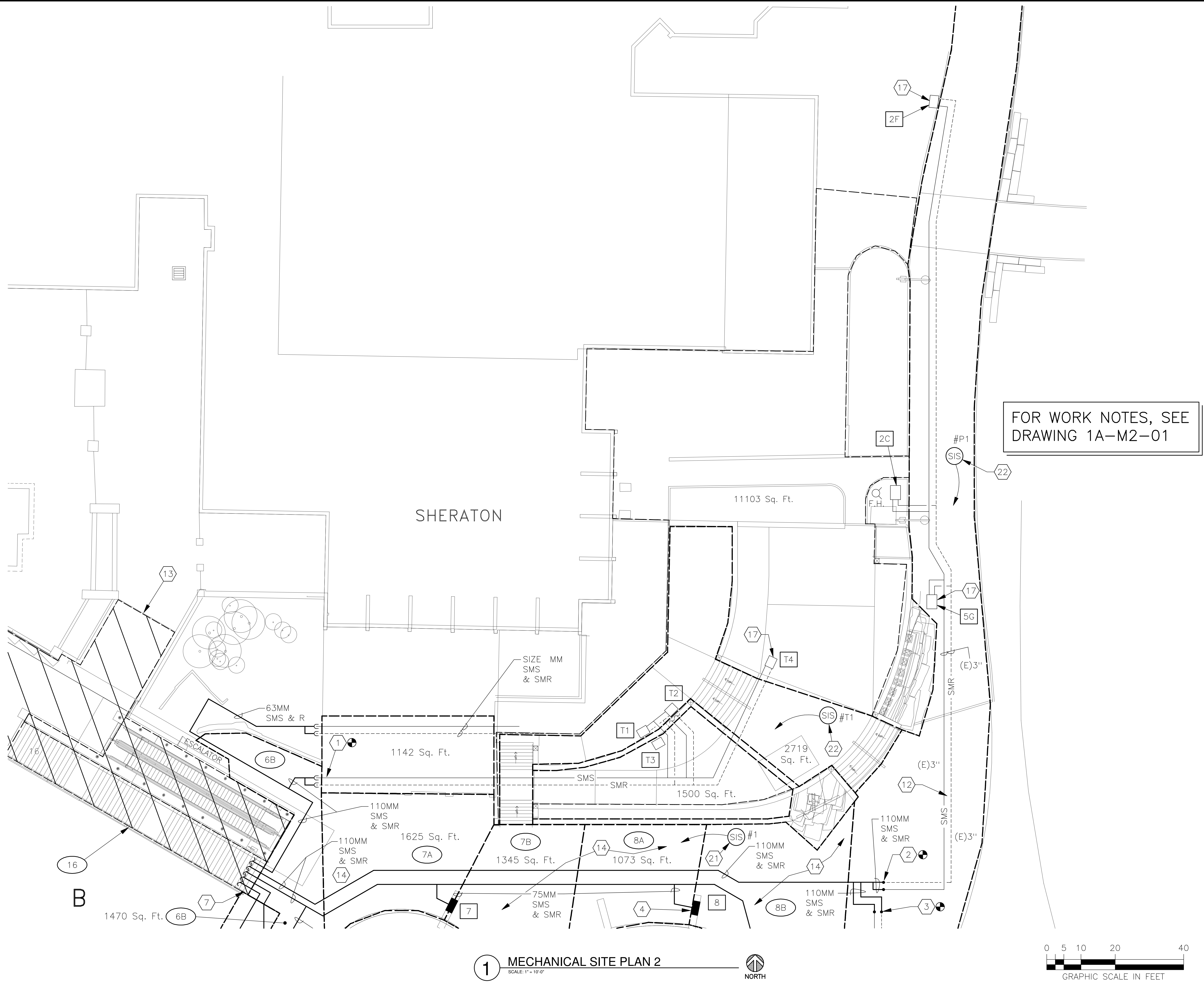
**BP3 PROMENADE PERMIT
AND CONSTRUCTION**

Project Number DW Project Number

003.7835.000 6466

Description

**ENLARGED
MECHANICAL
SITE PLAN
1A-M2-02**



FOR WORK NOTES, SEE
DRAWING 1A-M2-01

△ Date	Description
- 2021.05.19	BP3: PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



/19/2021

Project Name 5/19/2021

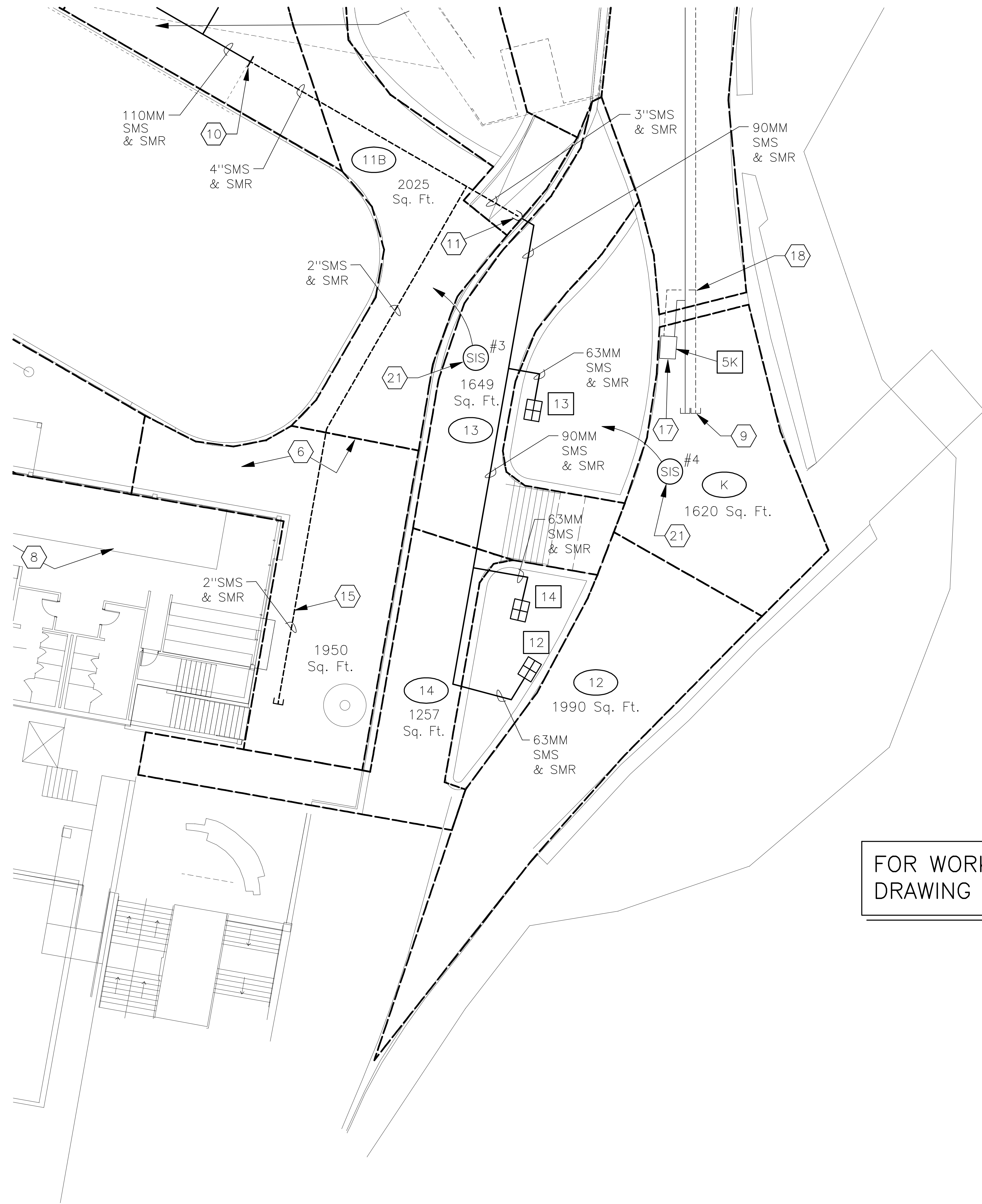
BP3 PROMENADE PERMIT AND CONSTRUCTION

Project Number	DW Project Number
003.7835.000	6466

Description

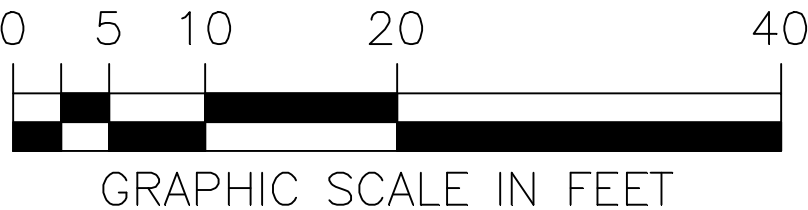
ENLARGED
MECHANICAL
SITE PLAN
1A-M2-03

2050-1A-M2-04-PRMD-MMS-SITE-PLAN-100 RES 05-18-21 13:10



FOR WORK NOTES, SEE
DRAWING 1A-M2-01

1 MECHANICAL SITE PLAN - LOWER PROMENADE AREA
SCALE: 1" = 10'-0"



ALTERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel: 303.595.8585
Fax: 303.825.6623



141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel: 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel: 303.623.5186



12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel: 303.431.6100

14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel: 303.421.6655

LOHR DESIGN GROUP
Mechanical
Engineers
19026 East Hickock Dr.
Parker, Colorado 80134
Tel: 303.870.5170

Date	Description
2021.05.19	BP3, PROMENADE - ISSUE FOR BID AND PERMIT

Seal / Signature



Project Name

**BP3 PROMENADE PERMIT
AND CONSTRUCTION**

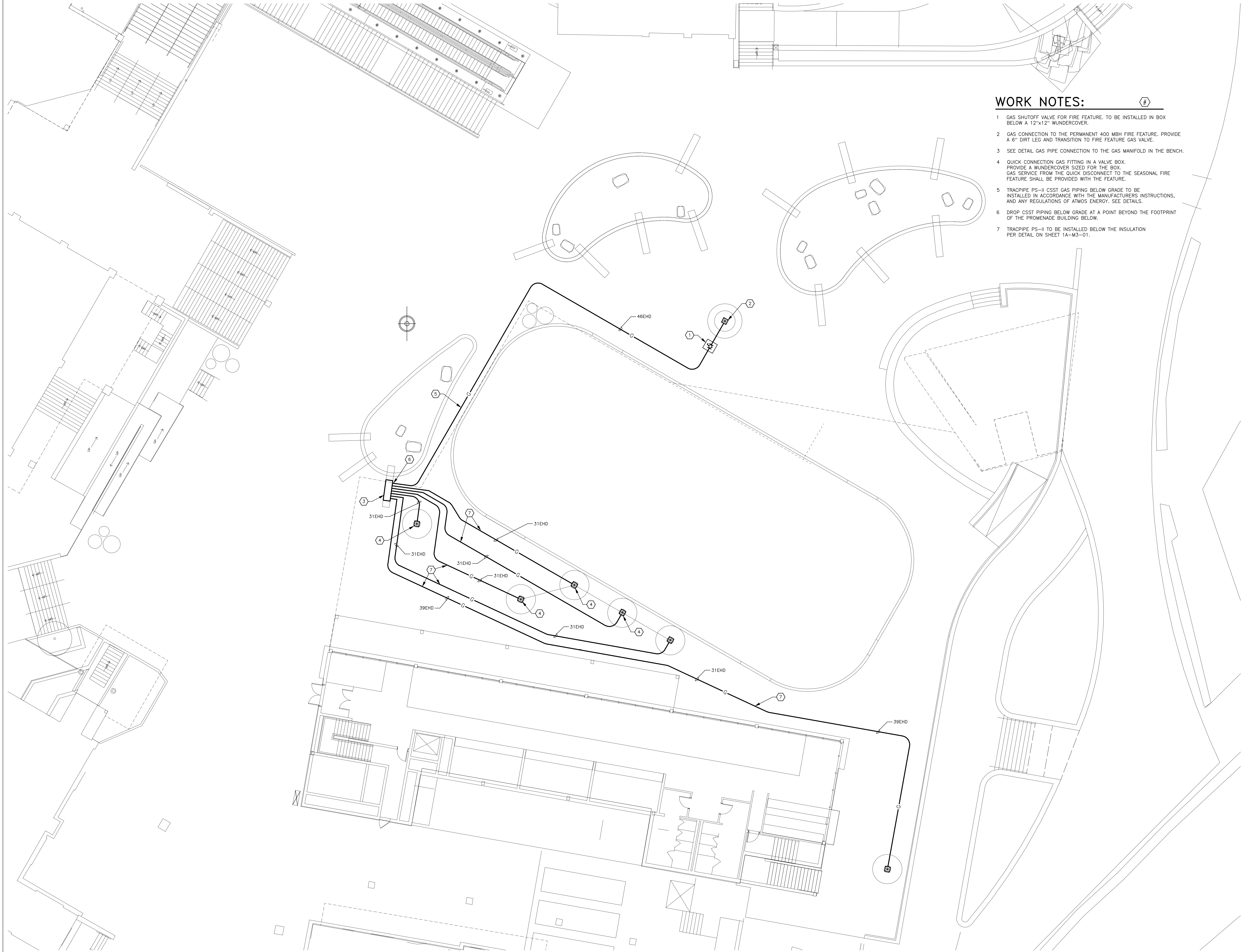
Project Number DW Project Number

003.7835.000 6466

Description

**ENLARGED
MECHANICAL
SITE PLAN
1A-M2-04**

2020-1A-M2-05-PRND-SITE-GAS-PLAN-120 RGS 05-18-21 11:06

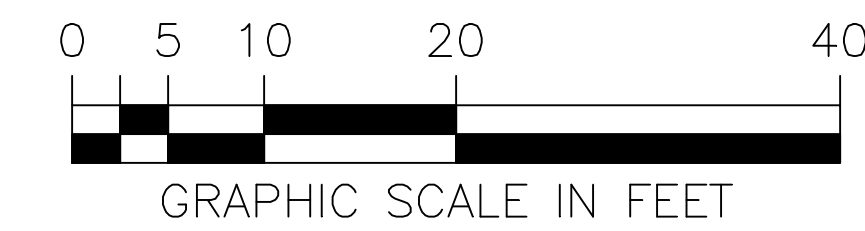


WORK NOTES:

- 1 GAS SHUTOFF VALVE FOR FIRE FEATURE. TO BE INSTALLED IN BOX BELOW A 12"x12" WUNDERCOVER.
- 2 GAS CONNECTION TO THE PERMANENT 400 MBH FIRE FEATURE. PROVIDE A 6" DIRT LEG AND TRANSITION TO FIRE FEATURE GAS VALVE.
- 3 SEE DETAIL GAS PIPE CONNECTION TO THE GAS MANIFOLD IN THE BENCH.
- 4 QUICK CONNECTION GAS FITTING IN A VALVE BOX. PROVIDE A WUNDERCOVER SIZED FOR THE BOX. GAS SERVICE FROM THE QUICK DISCONNECT TO THE SEASONAL FIRE FEATURE SHALL BE PROVIDED WITH THE FEATURE.
- 5 TRACPIPE PS-II CSST GAS PIPING BELOW GRADE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS, AND ANY REGULATIONS OF ATMOS ENERGY. SEE DETAILS.
- 6 DROP CSST PIPING BELOW GRADE AT A POINT BEYOND THE FOOTPRINT OF THE PROMENADE BUILDING BELOW.
- 7 TRACPIPE PS-II TO BE INSTALLED BELOW THE INSULATION PER DETAIL ON SHEET 1A-M3-01.

1 MECHANICAL GAS PIPING SITE PLAN

SCALE: 1" = 10'-0"



2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States
Tel 303.595.6885
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO 80477
Tel 970.871.9494

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186



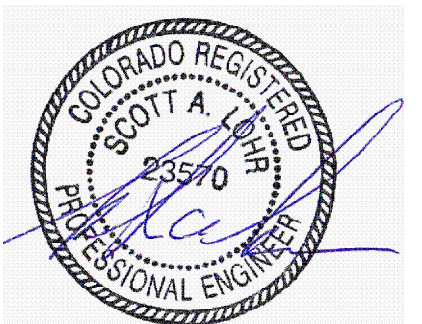
12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100

14143 Denver West Pkwy
Suite 300
Golden, CO 80204
United States
Tel 303.421.6655

LOHR DESIGN GROUP
Mechanical Engineers
19026 East Hickock Dr.
Parker, Colorado 80134
Tel 303.870.5170

Date	Description
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Project Name 5/19/2021

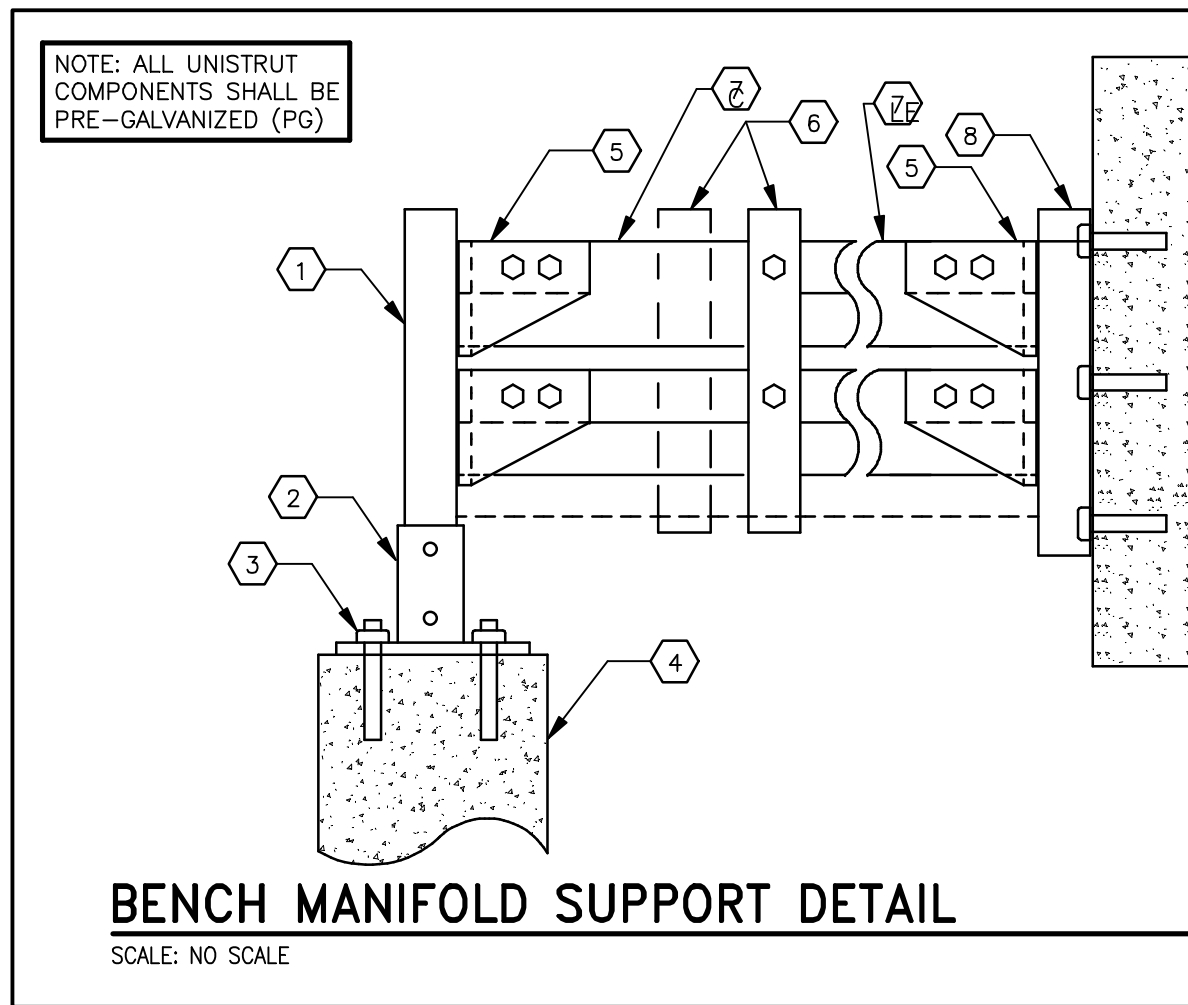
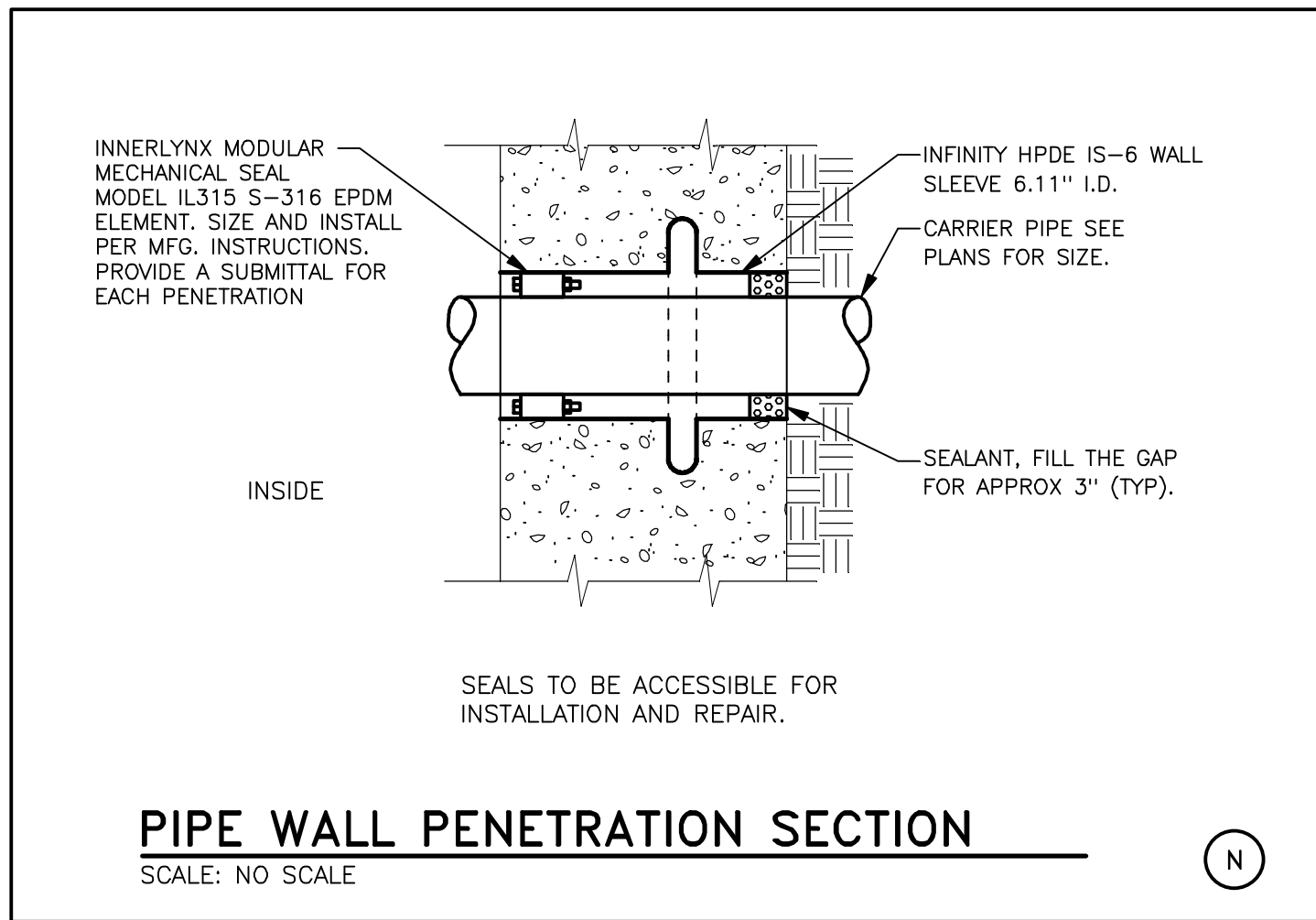
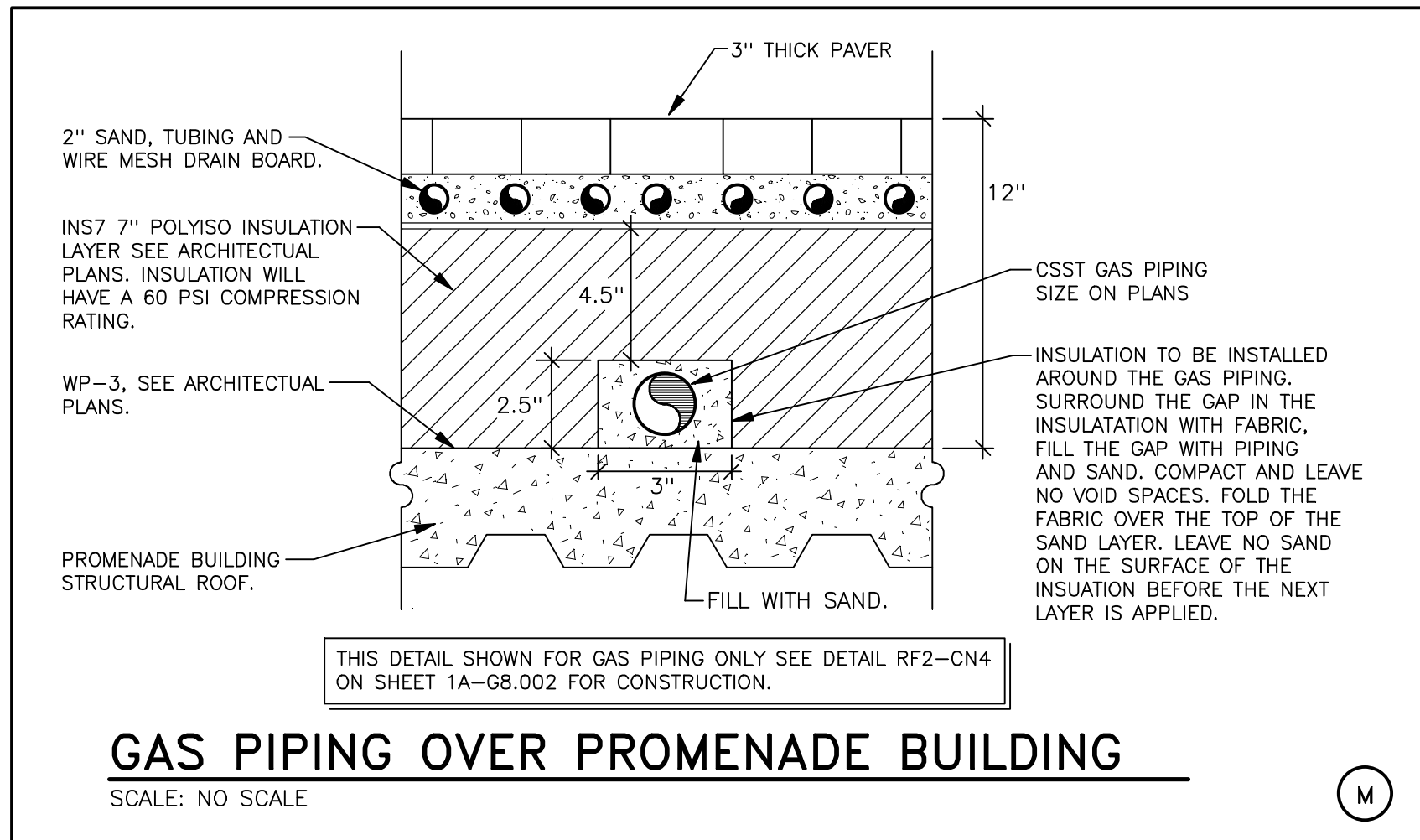
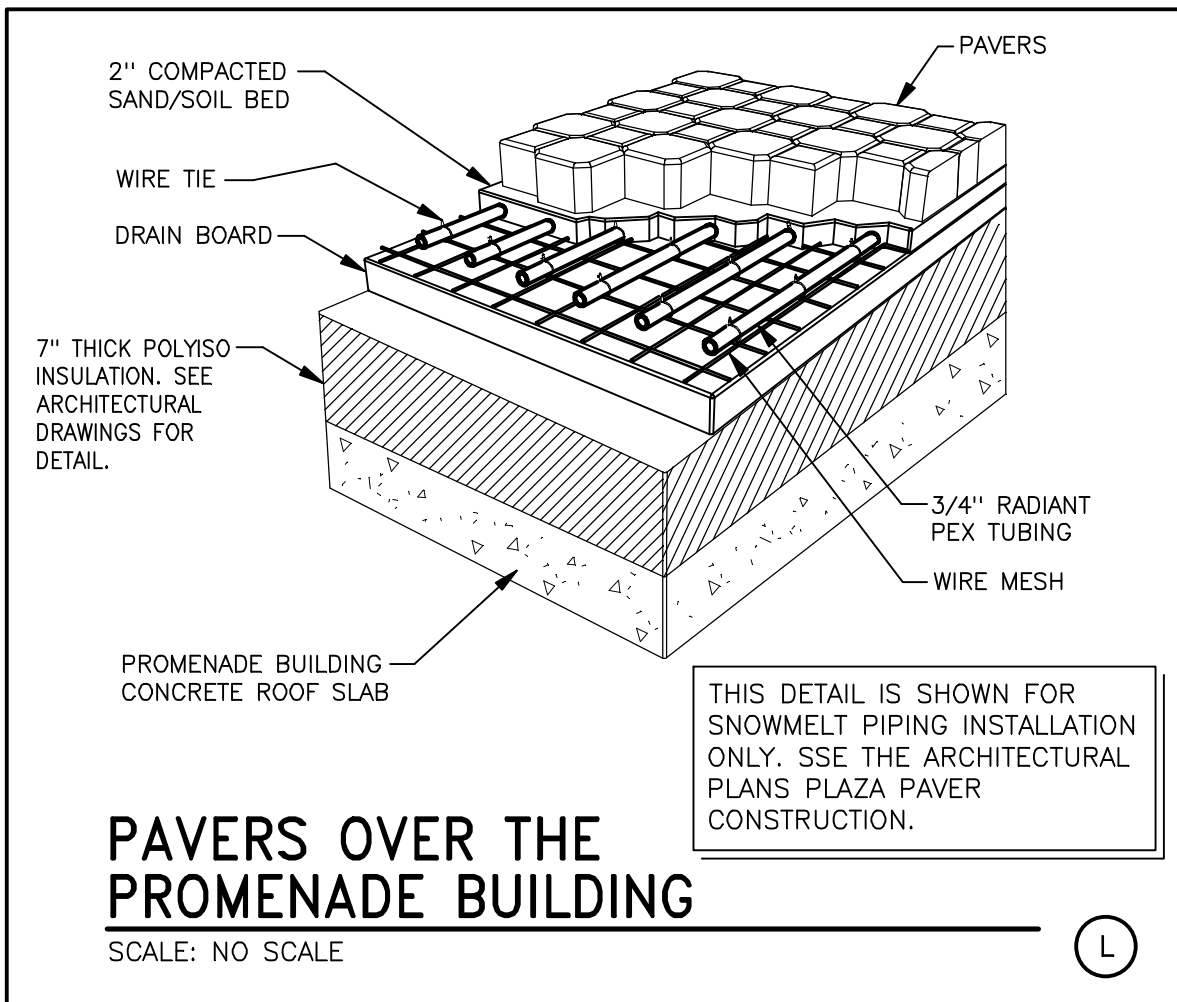
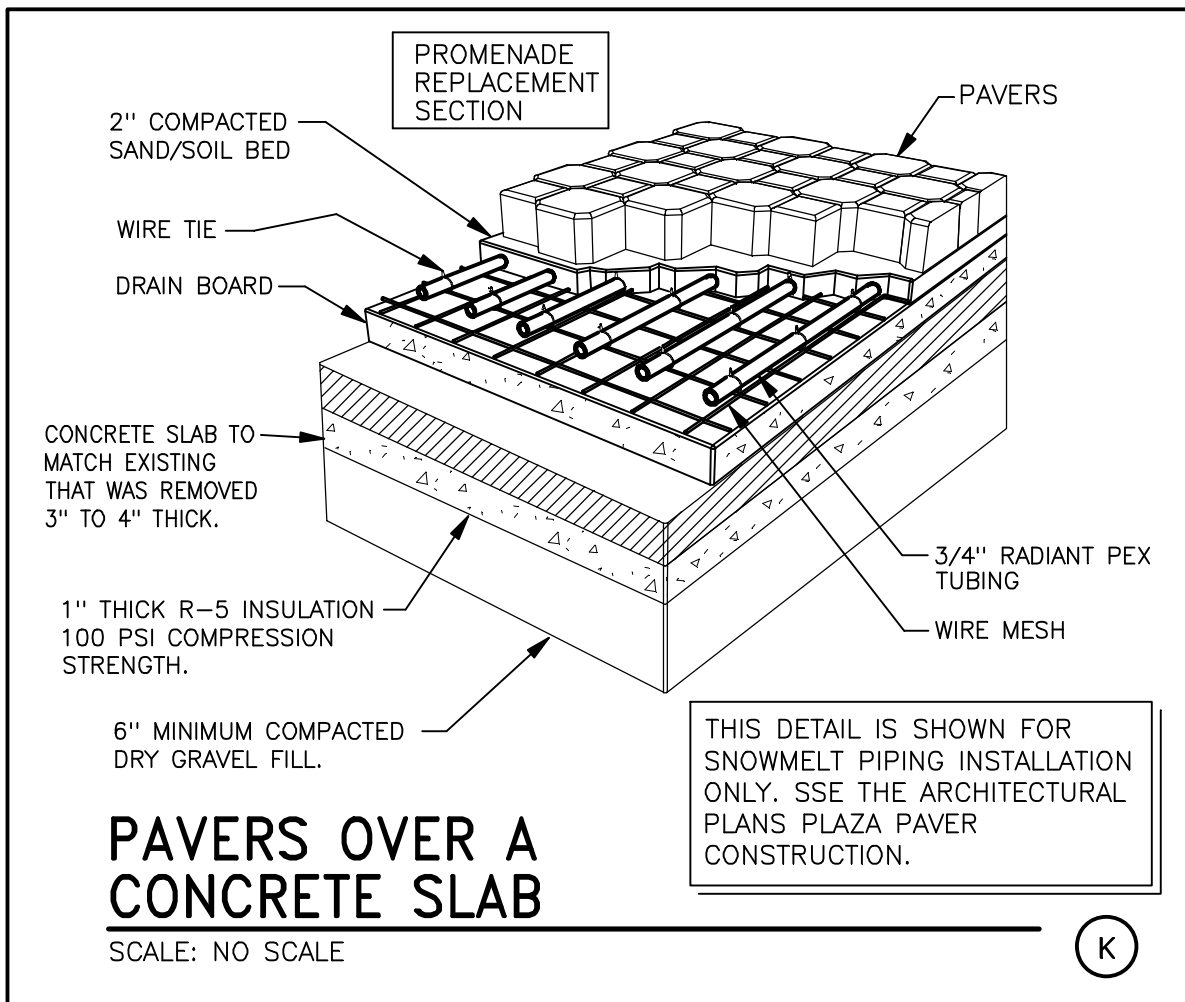
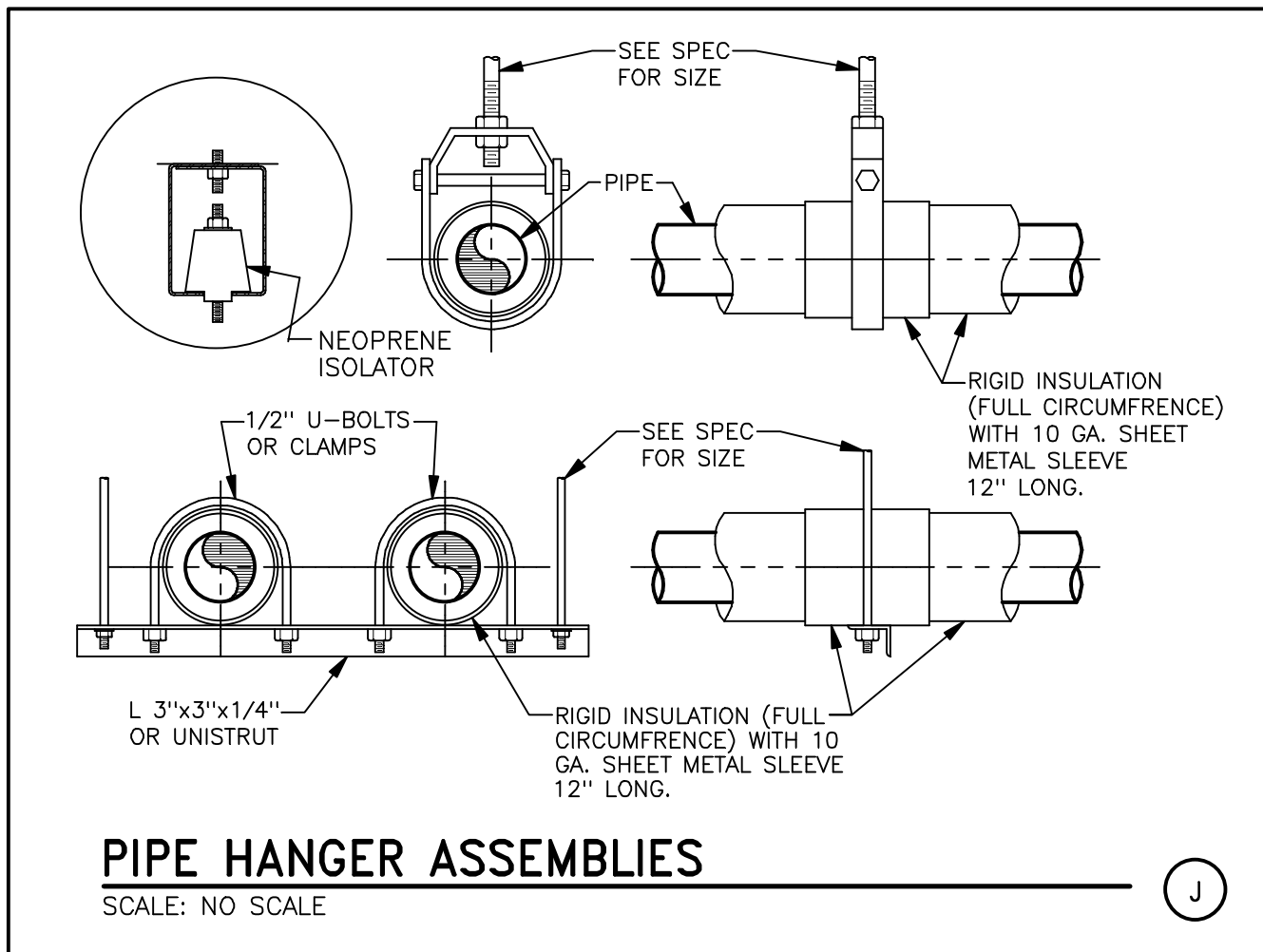
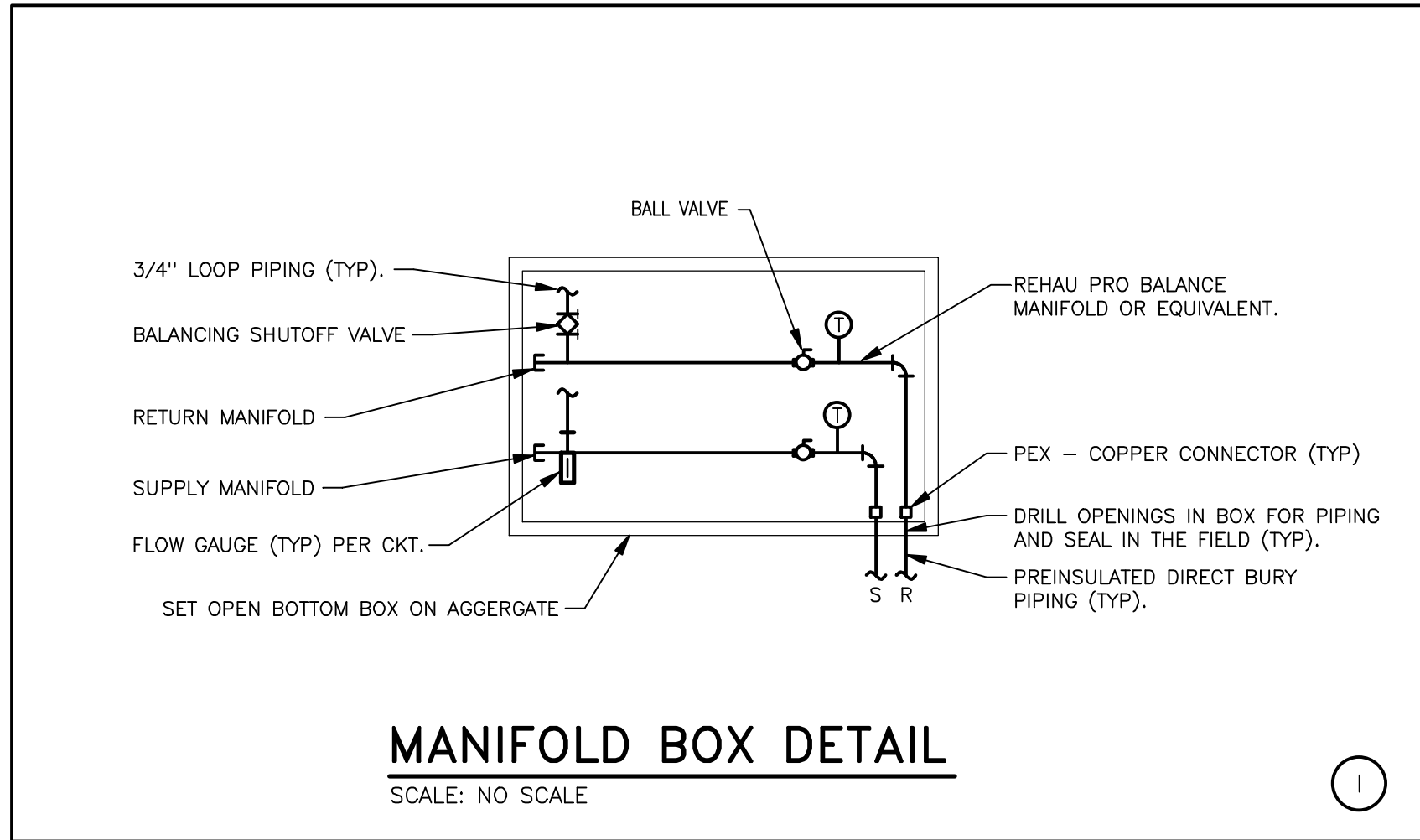
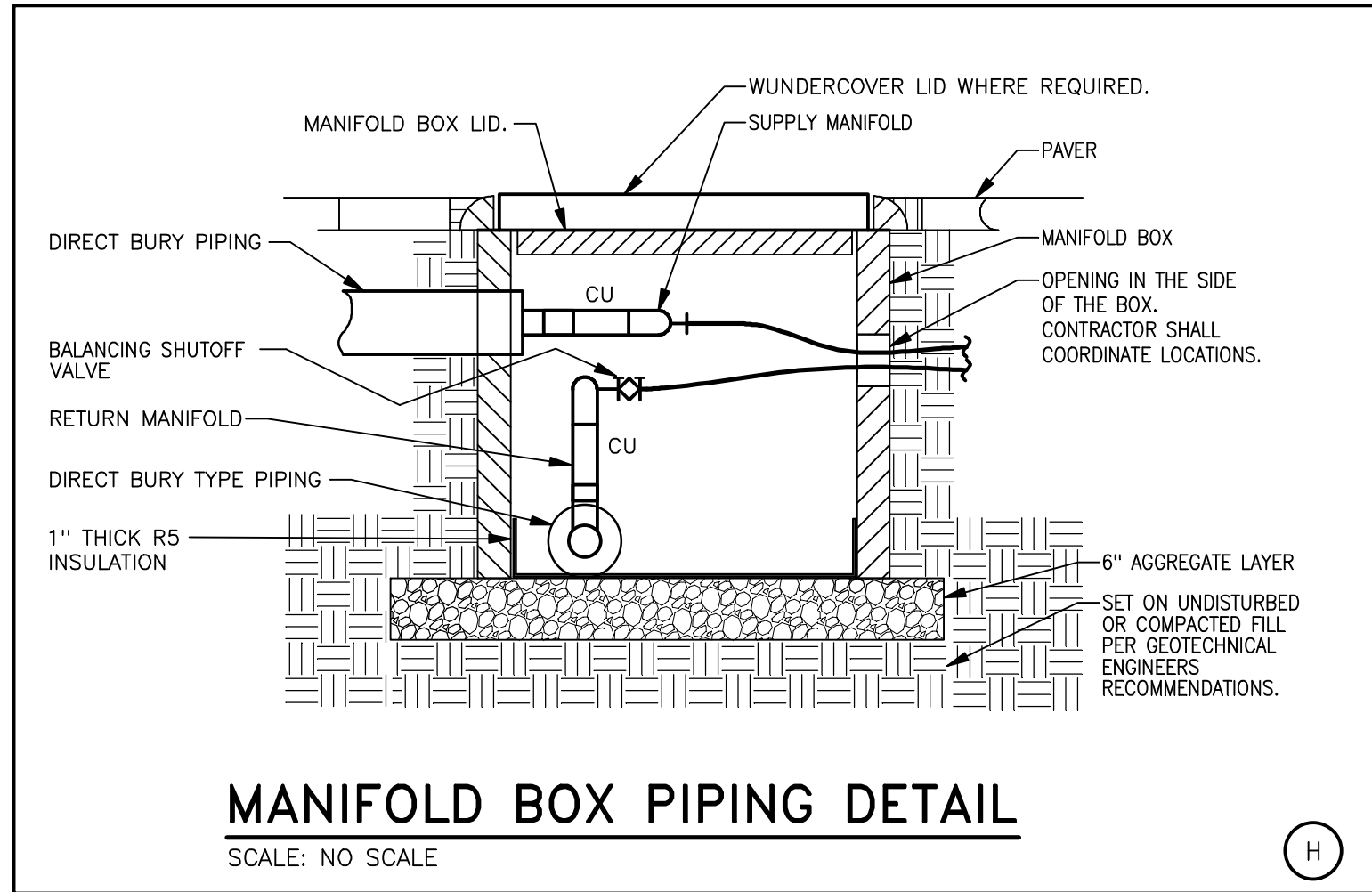
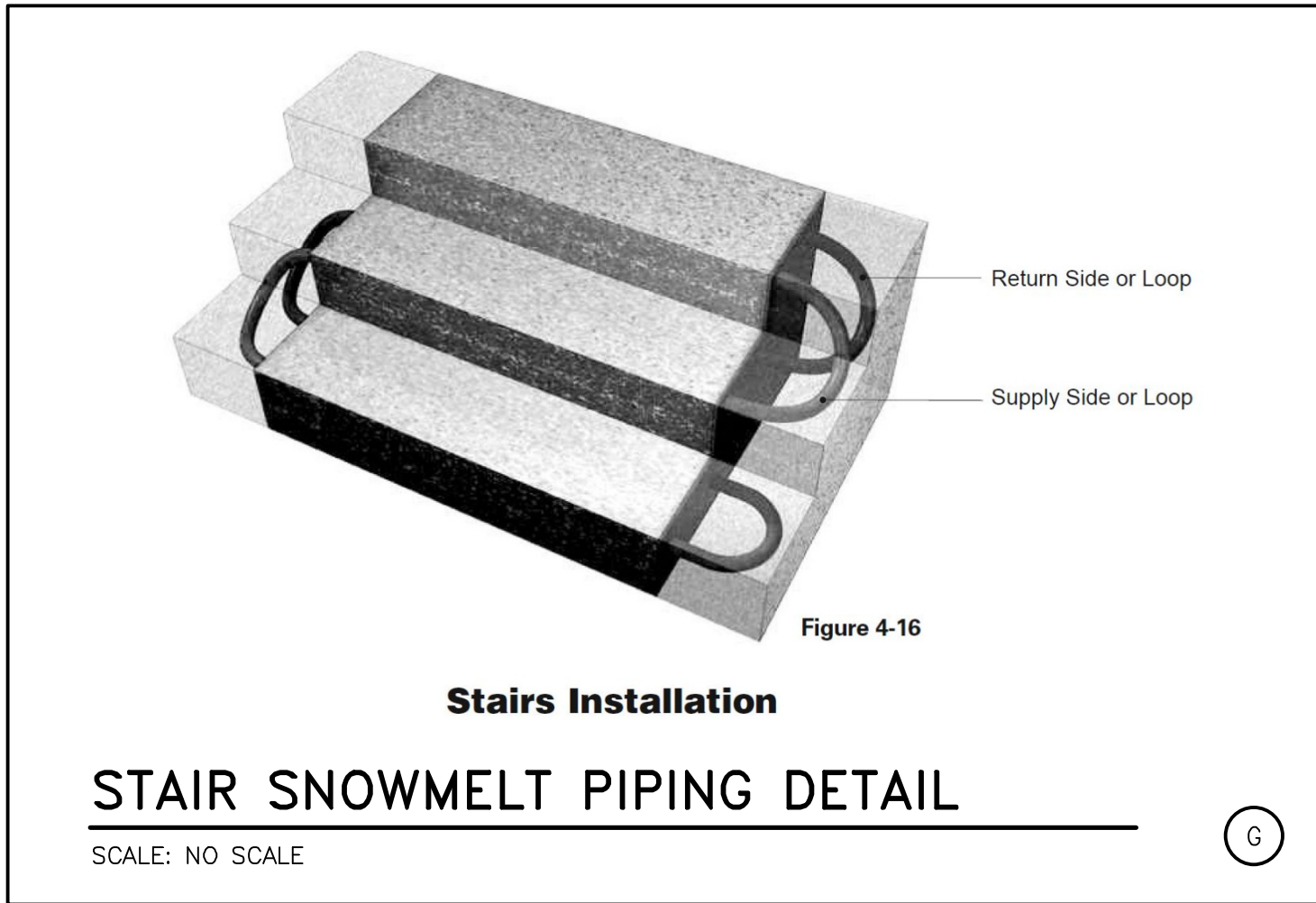
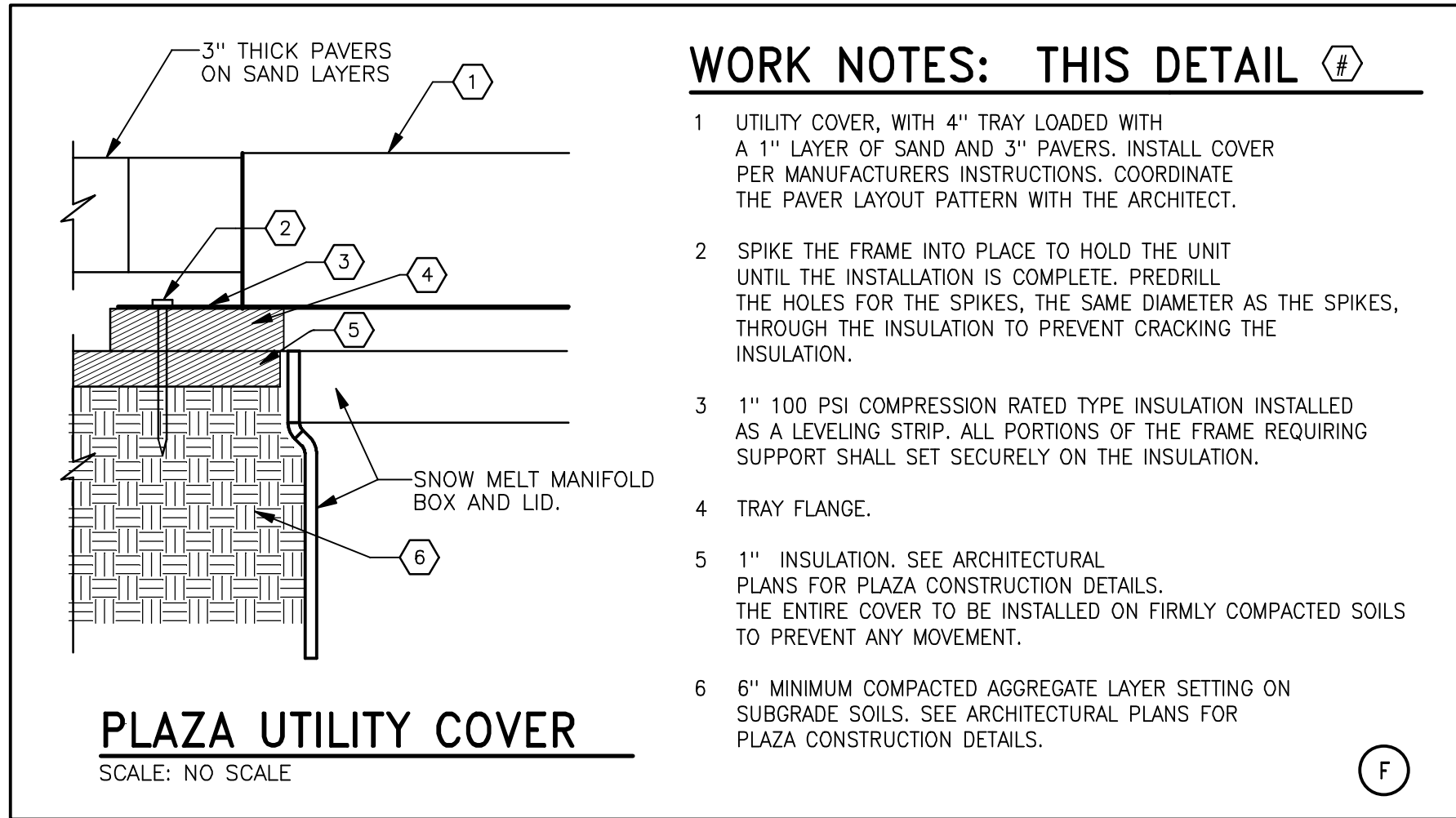
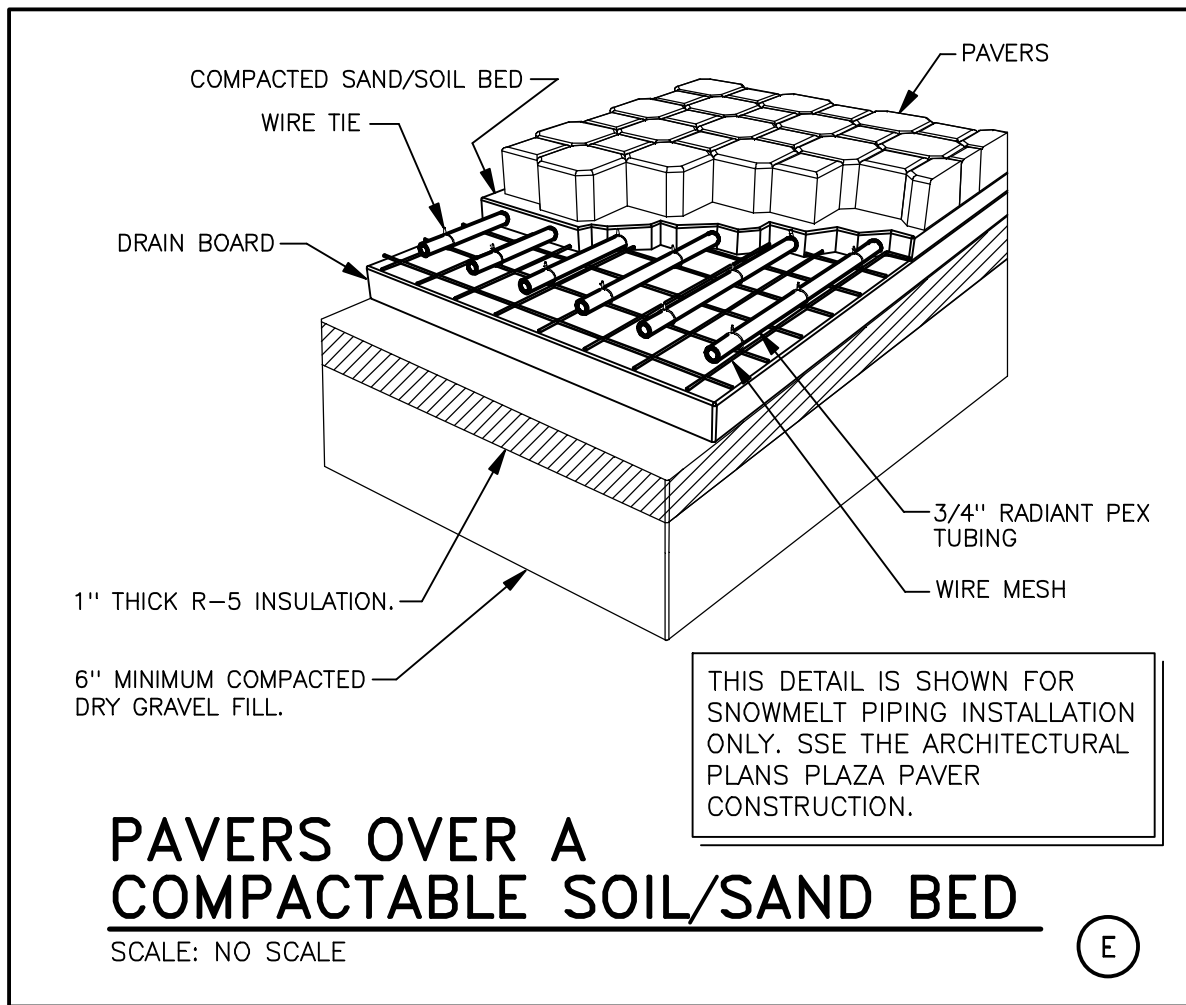
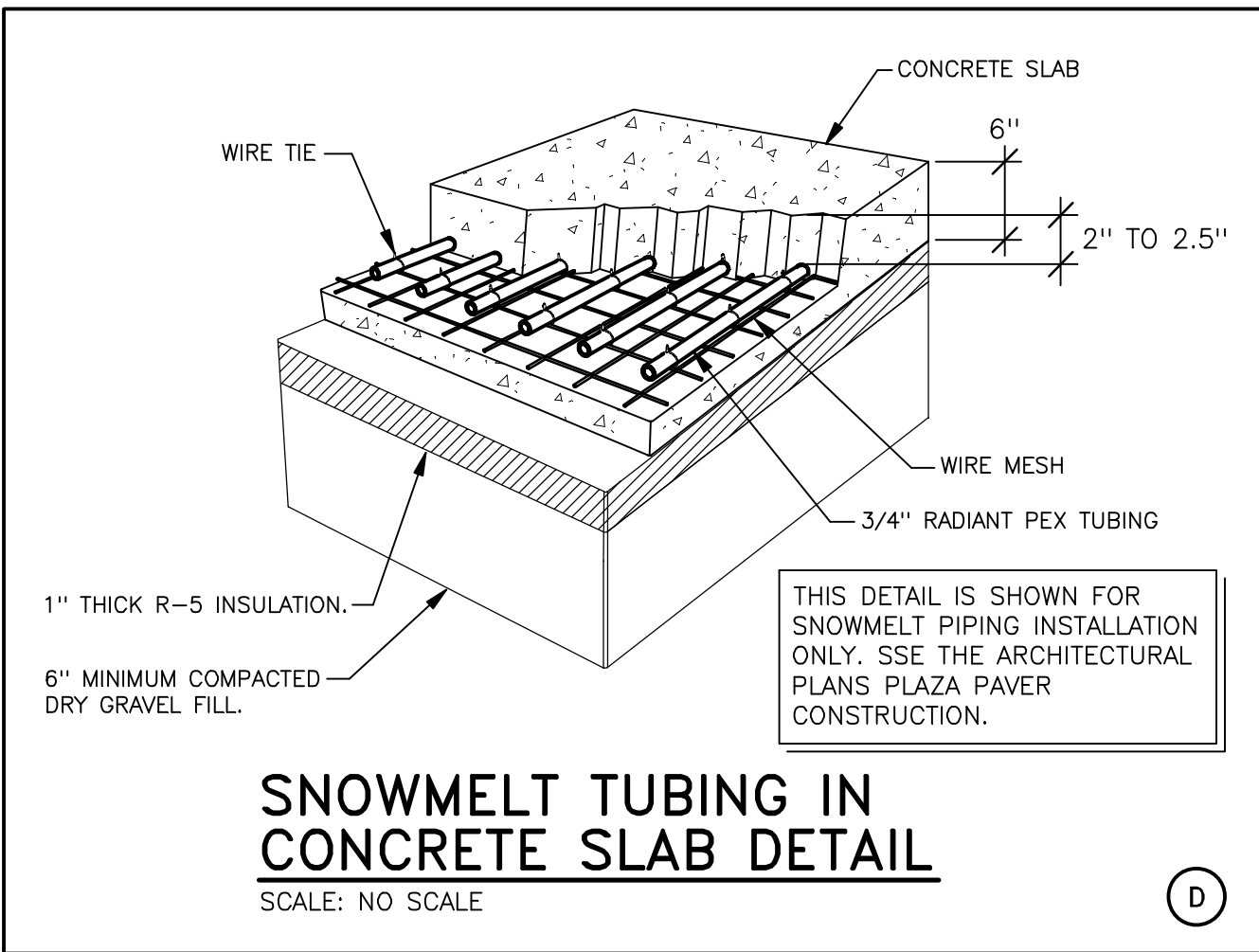
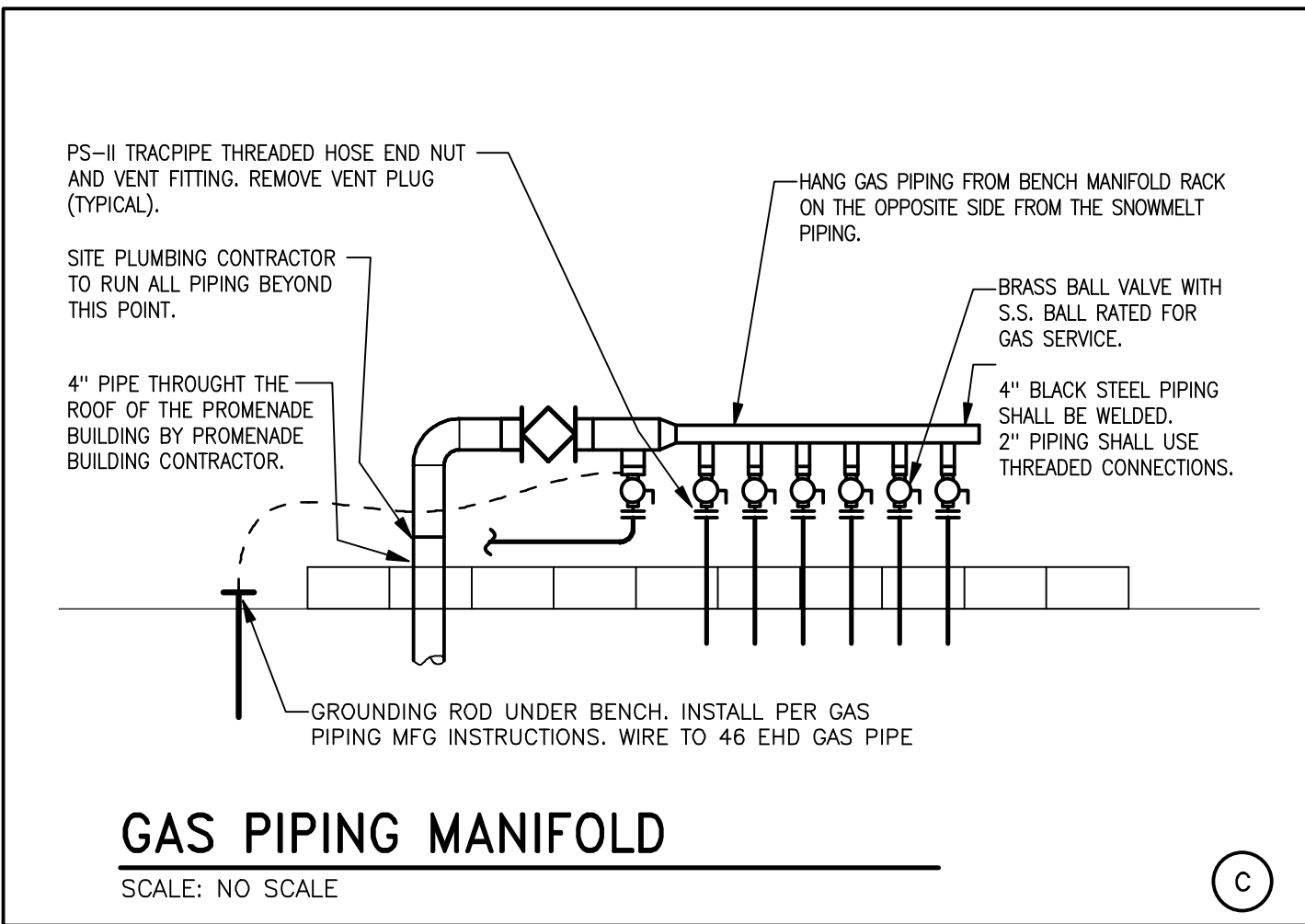
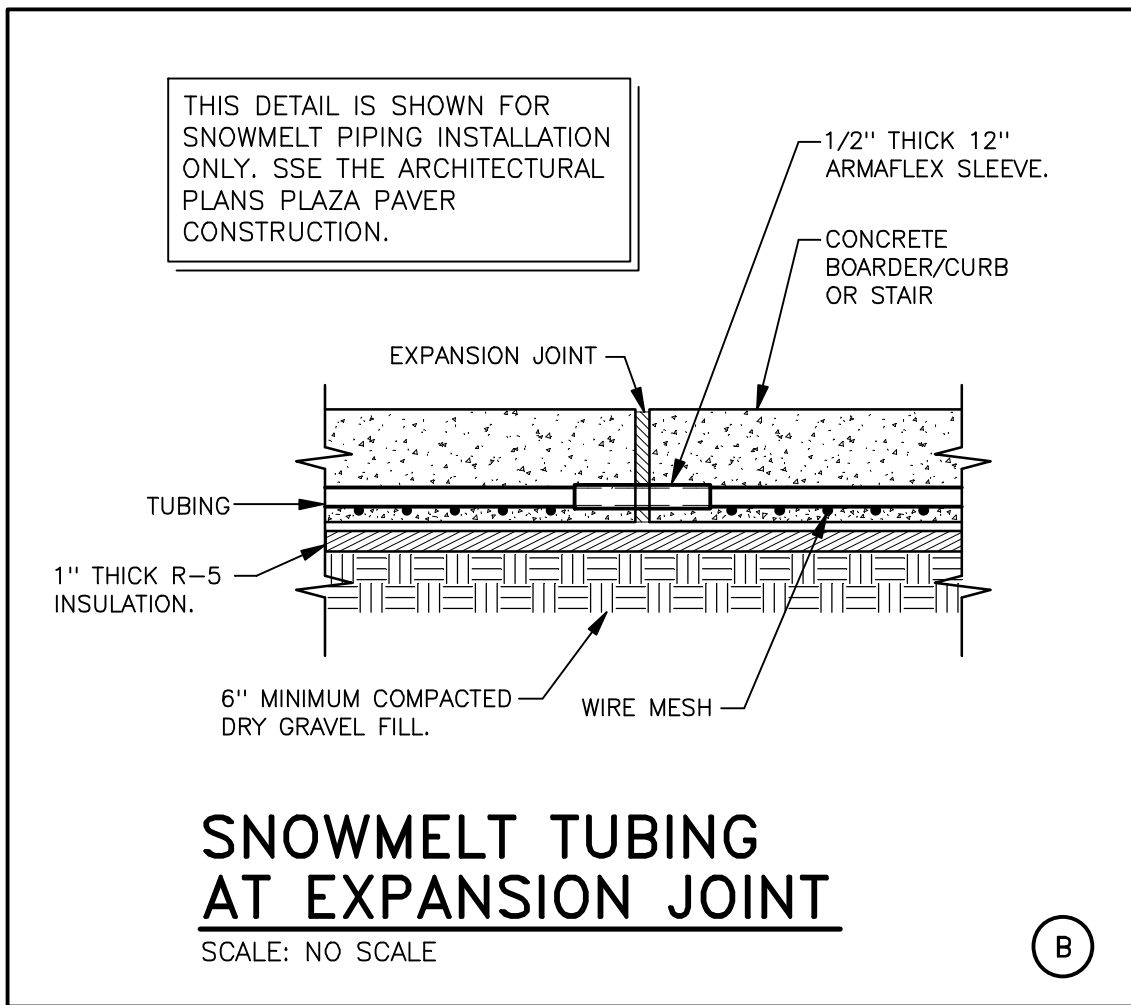
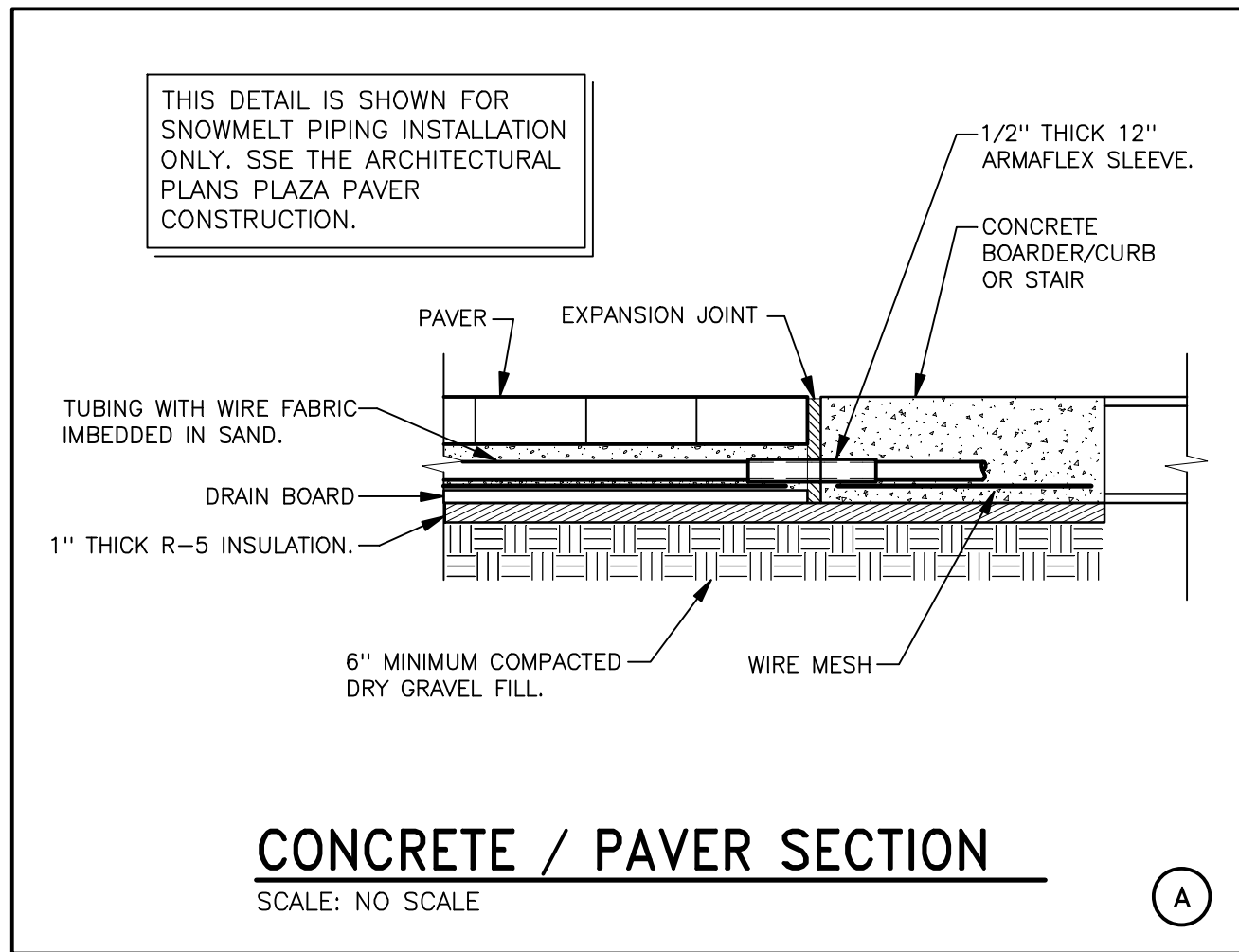
BP3 PROMENADE PERMIT AND CONSTRUCTION

Project Number DW Project Number

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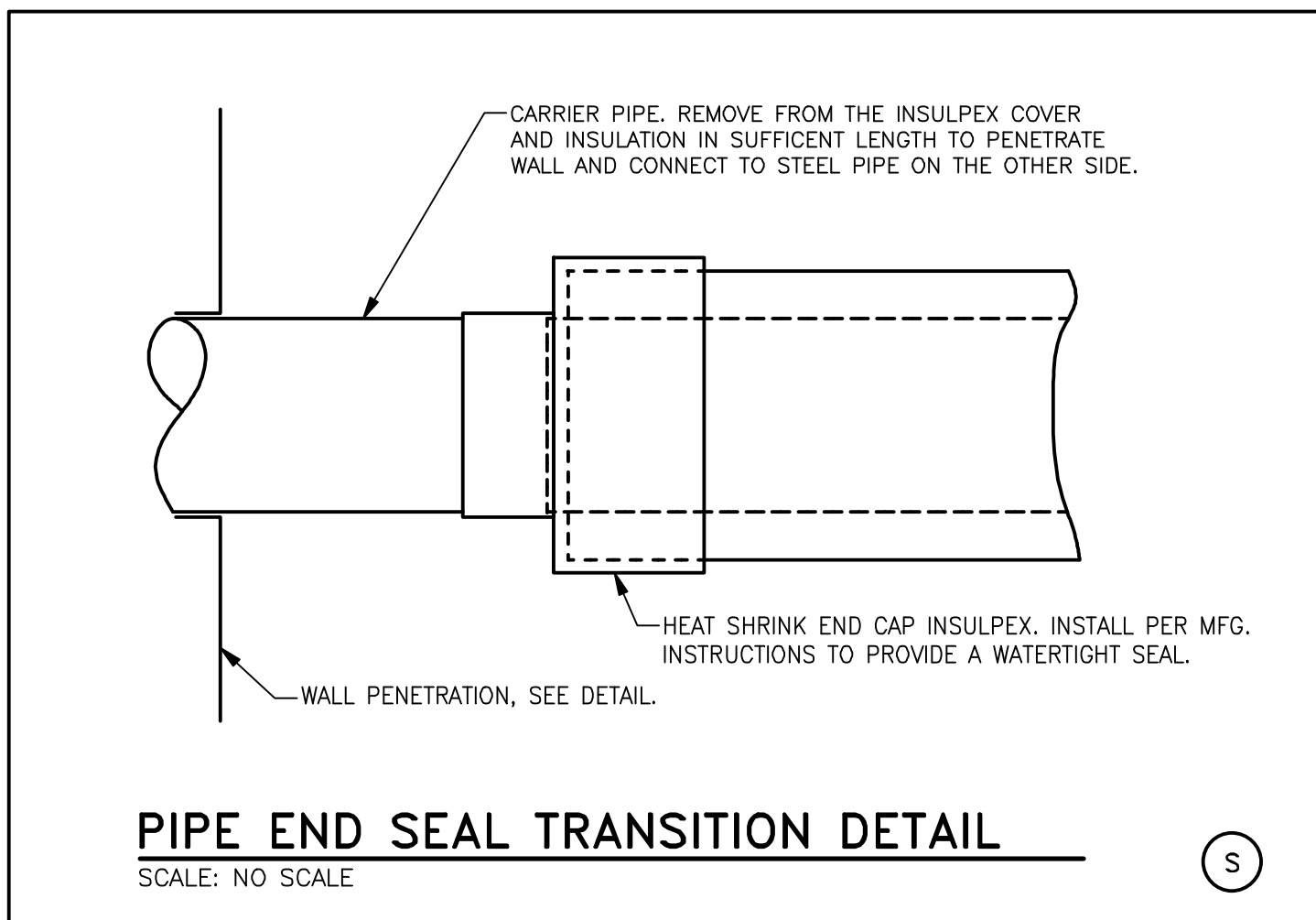
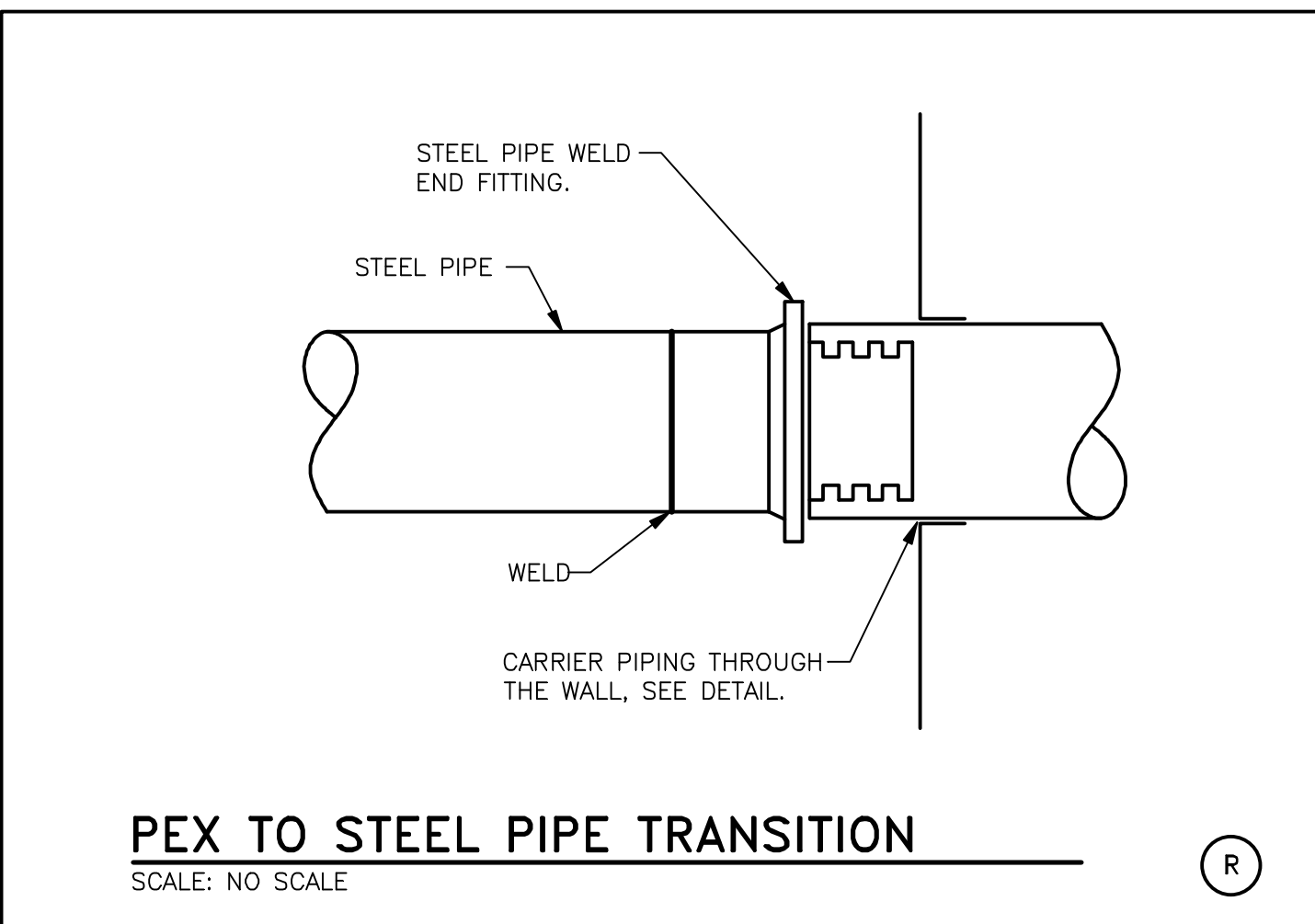
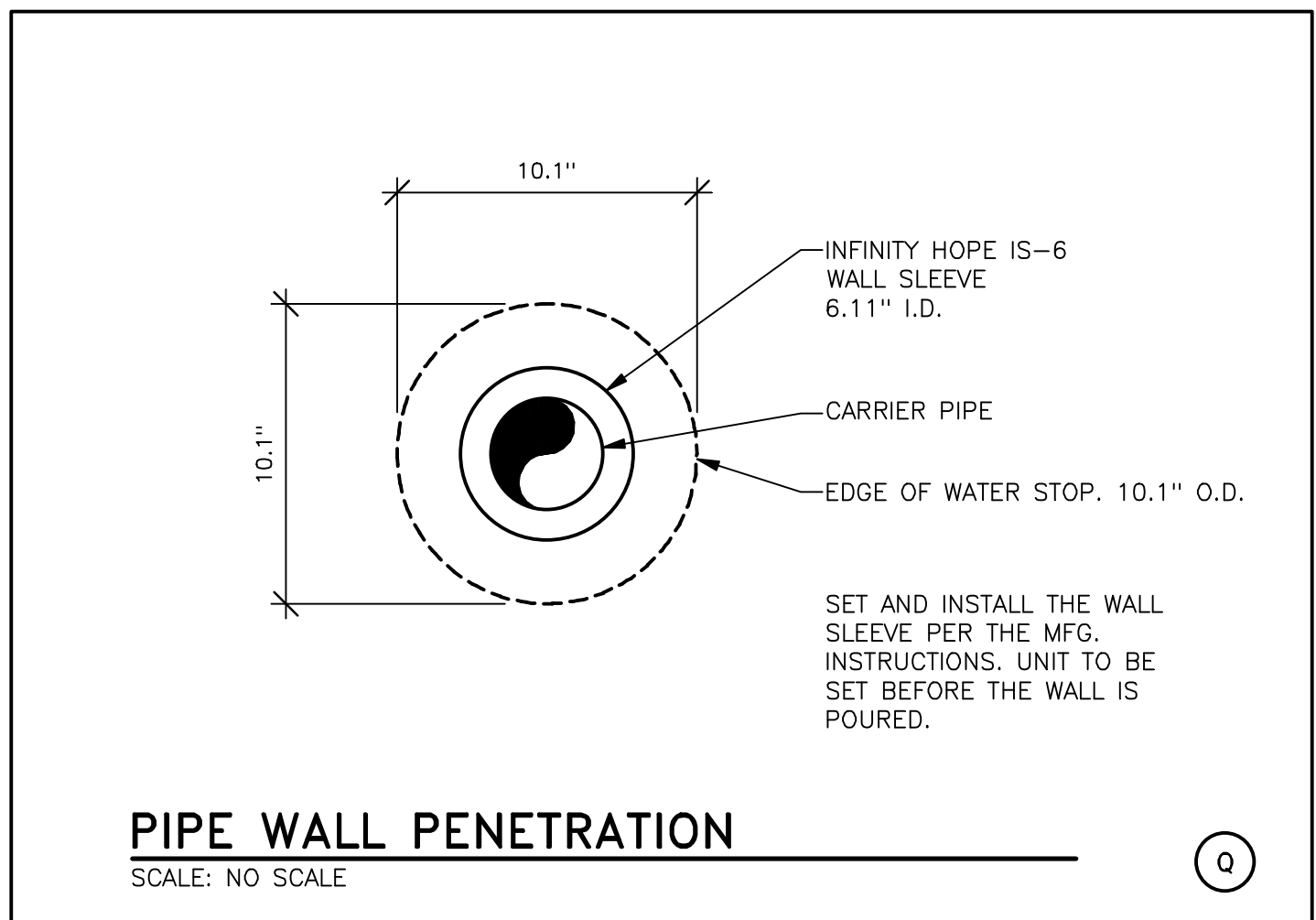
Description

GAS PIPING SITE PLAN 1A-M2-05



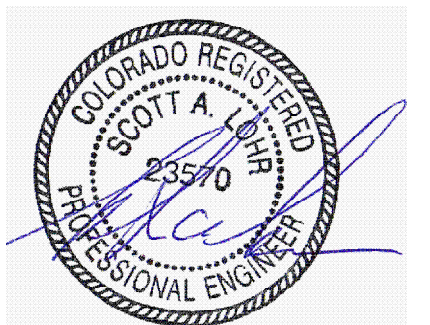
- WORK NOTES:**
- UNISTRUT P1001A DOUBLE SECTION CHANNEL COLUMN. ONLY ONE CHANNEL SECTION IS USED TO ATTACH HORIZONTAL CHANNELS.
 - POST BASE UNISTRUT P2073A SQ.
 - ANCHOR THE BASE TO THE CONCRETE WITH 3/8" S.S. THREADED ROD. USE HILTI HY200 ADHESIVE ANCHORING SYSTEM ACCORDING TO THE MANUFACTURERS INSTRUCTIONS.
 - CONCRETE FOUNDATION COLUMN. SEE ARCHITECTURAL DRAWINGS.
 - UNISTRUT P1290 ANGLE SUPPORT, 4 BOLTS.
 - VERTICAL CHANNEL WITH SLOTTED HOLES FOR MANIFOLD CONNECTION TO BE INSTALLED ON EACH SIDE OF THE HORIZONTAL CHANNEL MEMBERS. UNISTRUT P1000SL.
 - OPPOSITE SIDED DOUBLE CHANNEL MEMBER, UNISTRUT P1001B, ONE OF TWO.
 - ANCHOR A SINGLE CHANNEL SECTION TO THE PLANTER WALL. UNISTRUT P1000. ANCHOR THE CHANNEL TO THE WALL WITH 3/8" S.S. THREADED ROD. USE THE HILTI HY200 ADHESIVE ANCHORING SYSTEM ACCORDING TO THE MANUFACTURERS INSTRUCTIONS.
 - TIE THE HORIZONTAL CHANNEL SECTIONS INTO THIS VERTICAL CHANNEL.
 - SNOWMELT MANIFOLD. ATTACH TO THE VERTICAL CHANNELS.

- NOTE: ALL UNISTRUT COMPONENTS SHALL BE PRE-GALVANIZED (PG)
-
- 1
2
3
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8
9
10
- BENCH MANIFOLD SUPPORT DETAIL**
SCALE: NO SCALE
- P
- WORK NOTES:**
- UNISTRUT P1001A DOUBLE SECTION CHANNEL COLUMN. ONLY ONE CHANNEL SECTION IS USED TO ATTACH HORIZONTAL CHANNELS.
 - POST BASE UNISTRUT P2073A SQ.
 - ANCHOR THE BASE TO THE CONCRETE WITH 3/8" S.S. THREADED ROD. USE HILTI HY200 ADHESIVE ANCHORING SYSTEM ACCORDING TO THE MANUFACTURERS INSTRUCTIONS.
 - CONCRETE FOUNDATION COLUMN. SEE ARCHITECTURAL DRAWINGS.
 - UNISTRUT P1290 ANGLE SUPPORT, 4 BOLTS.
 - VERTICAL CHANNEL WITH SLOTTED HOLES FOR MANIFOLD CONNECTION TO BE INSTALLED ON EACH SIDE OF THE HORIZONTAL CHANNEL MEMBERS. UNISTRUT P1000SL.
 - OPPOSITE SIDED DOUBLE CHANNEL MEMBER, UNISTRUT P1001B, ONE OF TWO.
 - ANCHOR A SINGLE CHANNEL SECTION TO THE PLANTER WALL. UNISTRUT P1000. ANCHOR THE CHANNEL TO THE WALL WITH 3/8" S.S. THREADED ROD. USE THE HILTI HY200 ADHESIVE ANCHORING SYSTEM ACCORDING TO THE MANUFACTURERS INSTRUCTIONS.
 - TIE THE HORIZONTAL CHANNEL SECTIONS INTO THIS VERTICAL CHANNEL.
 - SNOWMELT MANIFOLD. ATTACH TO THE VERTICAL CHANNELS.



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DW Project Number

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Description

MECHANICAL DETAILS

1A-M3-01

2050-1A-MD1-01-PRND-DEMO-SITE-PLAN-240 RCS 05-18-21 11:10

WORK NOTES:

- 1 REMOVE THE REMAINING TUBING FROM THE EXISTING MANIFOLD "SK".
- 2 EXISTING MANIFOLD "SK" TO BE REUSED.
- 3 EXISTING SNOWMELT BOILER ROOM. SEE THE ENLARGED PLAN FOR DETAILS.
- 4 REMOVE THE GAS LINE BACK TO THE GAS METER. COORDINATE THIS ACTIVITY WITH ATMOS ENERGY.
- 5 EXISTING BURIED SNOWMELT MAIN TO BE REMOVED BY THE PLAZA DEMOLITION CONTRACTOR, TYPICAL.
- 6 CUT AND CAP THE EXISTING MAIN FOR RECONNECTION AND REUSE.
- 7 REMOVE THE EXISTING MANIFOLD BOX AND COVER. THE SNOWMELT CONTRACTOR SHALL SALVAGE THE PIPING MANIFOLDS FOR POSSIBLE REUSE. TYPICAL FOR ALL REMOVED MANIFOLD SYSTEMS.
- 8 CUT AND CAP THE EXISTING MAIN FOR RECONNECTION AND REUSE.
- 9 EXISTING PIPING MANIFOLD TO REMAIN.
- 10 LIMIT OF PROJECT DEMOLITION LINE. SEE CIVIL DRAWINGS FOR MORE DETAIL.
- 11 THE SNOWMELT SYSTEM SERVED BY THIS PIPING SHALL REMAIN.
- 12 THE TIMBER AND TORCH PATIO SNOWMELT SYSTEM SHALL REMAIN.
- 13 THE SNOWMELT SYSTEM SERVED BY THIS PIPING SHALL REMAIN.
- 14 THE SNOWMELT SYSTEM ON THE LOWER AREA IS SERVED BY BOILERS IN THE EXISTING GONDOLA BUILDING. THIS SYSTEM IS TO BE REMOVED.
- 15 THE EXISTING SNOWMELT SYSTEM IN THE PROMENADE AREAS WHICH ARE NOT REMOVED SHALL REMAIN OPERATIONAL.
- 16 THE EXISTING SNOWMELT SYSTEM IN THE PROMENADE AREAS WHICH ARE REMOVED SHALL BE REPLACED.
- 17 FIELD VERIFY THE LIMITS OF THE SYSTEM WHICH MUST BE REMOVED WHEN THIS SECTION OF THE PROMENADE IS REMOVED. REMOVE ALL THE ZONES WHICH CROSS THE DEMOLITION LINE. COORDINATE ANY EXTENDED LIMITS OF DEMOLITION WITH THE GENERAL CONTRACTOR.
- 18 CUT AND CAP THE EXISTING MAIN FOR RECONNECTION AND REUSE. SEE NOTE 17 TO DETERMINE THE EXACT LOCATION.
- 19 EXISTING LOWER-LEVEL MANIFOLD BOX. TO BE REMOVED.
- 20 THE SNOWMELT BOILERS, PUMPS AND OTHER EQUIPMENT IN THE EXISTING GONDOLA BUILDING ARE TO BE REMOVED.
- 21 EXISTING BURIED SNOW MELT TUBING IN THE PLAZA AREAS WHICH ARE BEING REMOVED SHALL BE TAKEN OUT BY THE PLAZA DEMOLITION CONTRACTOR.
- 22 PIPING TAKEOFF TO EXISTING PIPING MANIFOLDS. VERIFY MANIFOLD LOCATIONS IN THE FIELD. TYPICAL.
- 23 REMOVE THE REMAINING TUBING FROM THIS AREA. NEW TUBING FROM MANIFOLD 12 TO SERVE THIS AREA.



1 SNOWMELT DEMOLITION PLAN

SCALE: 1" = 20'-0"



0 4 8 16 32
GRAPHIC SCALE IN FEET



ALTERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States

Tel 303.595.8585
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
Tel 303.623.5186



12499 West Colfax Ave.
Lakewood, CO 80215
United States
Tel 303.431.6100



14143 Denver West Pkwy
Suite 300
Golden, CO
United States
Tel 303.421.6655

LOHR DESIGN GROUP

Mechanical
Engineers

19026 East Hickock Dr.
Parker, Colorado 80134
Tel 303.870.5170

△ Date Description

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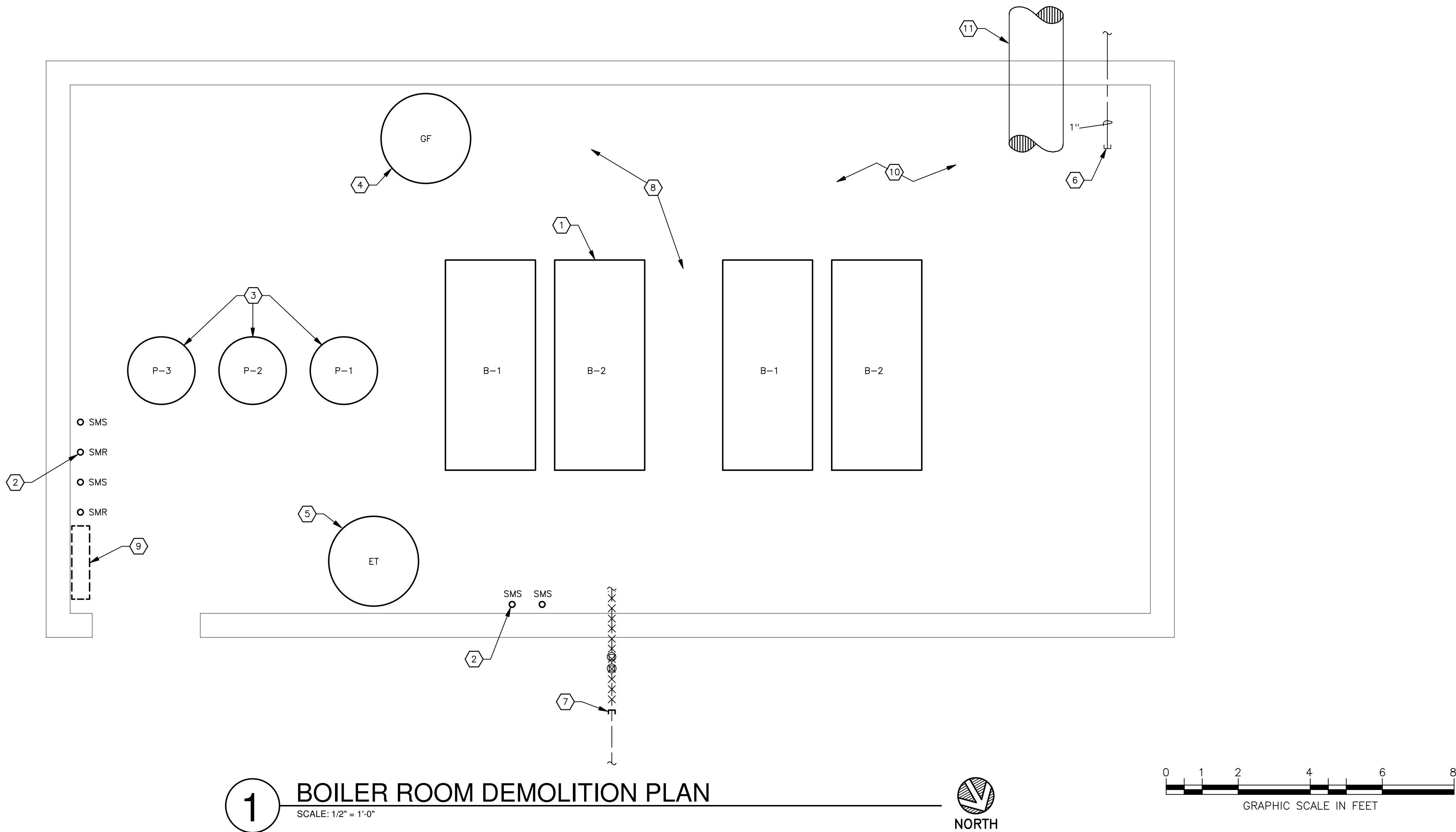
DW Project Number

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Description

DEMOLITION
PLAN

1A-MD1-01



WORK NOTES:

- 1 REMOVE ALL 4 BOILERS AND PREPARE FOR STORAGE AND REUSE. WORK DO BE DONE IN ACCORDANCE WITH THE MANUFACTURES RECOMMENDATIONS. DRAIN EACH BOILER UNBOLT FROM THE SLAB. DISCONNECT SUPPLY AND RETURN PIPING AT THE ISOLATION VALVES BLIND FLANGE THE VALVES TO SEAL UP THE BOILER CAP AND SEAL THE VENT AND COMBUSTION AIR OPENINGS DISCONNECT THE GAS UP STEAM OF THE REGULATOR. RETAIN THE REGULATOR AND CAP THE PIPING INTO THE BOILER AND REGULATOR. REPLACE THE SIDE PANELS. WRAP THE BOILER IN STRETCH PLASTIC WRAP. BOX THE UNIT IN A PLYWOOD BOX AND SET ON A WOODEN BASE FOR STORAGE. TURN THE BOILERS OVER TO THE GENERAL CONTRACTOR.
- 2 DRAIN AND RETAIN THE GLYCOL SOLUTION FOR ALL AREAS SERVED BY THIS PLANT. THE SYSTEM, INCLUDING THE TUBING DOWNSTREAM FROM THE MANIFOLDS, SHALL BE BLOWN OUT. STORE THE GLYCOL FLUID FOR REUSE IN THE NEW SYSTEM.
- 3 REMOVE THE EXISTING PUMPS. RETAIN THE VALVING AND STRAINERS. CAP PIPING INTO AND OUT OF THE PUMPS. WRAP THE PUMPS IN STRETCH PLASTIC WRAP. TURN THE PUMPS OVER TO THE GENERAL CONTRACTOR FOR POSSIBLE REUSE.
- 4 DRAIN AND REMOVE THE EXISTING GLYCOL FEEDER. CAP ALL PIPING CONNECTIONS TURN THE UNIT OVER TO THE GENERAL CONTRACTOR FOR POSSIBLE REUSE.
- 5 REMOVE THE EXPANSION TANK. THE TANK IS NOT TO BE SAVED FOR REUSE.
- 6 CUT AND CAP THE WATER LINE.
- 7 REMOVE THE SANITARY LINE TO THE LIMITS OF THE DEMOLITION. CAP THE LINE. FIELD VERIFY PIPING SIZE.
- 8 TURN OFF AND DISCONNECT ALL POWER FEEDS INTO THE BUILDING. REMOVE AND SALVAGE THE PIPING MANIFOLDS FOR POSSIBLE REUSE.
- 9 SALVAGE EXISTING PIPING MANIFOLD.
- 10 EXISTING PIPING TO BE REMOVED BY OTHERS WHEN THE BUILDING IS REMOVED.
- 11 EXISTING FLUE TO BE REMOVED BY OTHERS WHEN THE BUILDING IS REMOVED.



ALTEERRA east west partners
MOUNTAIN COMPANY

2305 Mount Werner Circle
Steamboat Springs, CO 80487

Gensler

1225 17th Street
Suite 150
Denver, CO 80202
United States

Tel 303.595.8585
Fax 303.625.6823



141 9th Street
PO Box 774943
Steamboat Springs, CO
80477
Tel 970.871.9494

DESIGNWORKSHOP

1390 Lawrence Street
Suite 100
Denver, CO 80204
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Lakewood, CO 80215
United States
Tel 303.431.6100



14143 Denver West Pkwy
Suite 300
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LOHR DESIGN GROUP

Mechanical
Engineers
19026 East Hickock Dr.
Parker, Colorado 80134
Tel 303. 870.5170

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5/19/2021

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DW Project Number

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Description

BOILER ROOM
DEMOLITION
1A-MD1-02