

**TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1
KUM & GO #2293 GAS & C-STORE SITE PLAN**



PRELIMINARY
NOT FOR
CONSTRUCTION



1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

2293 - KUM AND GO - PARKER, CO
NEC OF BAYOU GULCH RD AND PINERY PKWY

KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

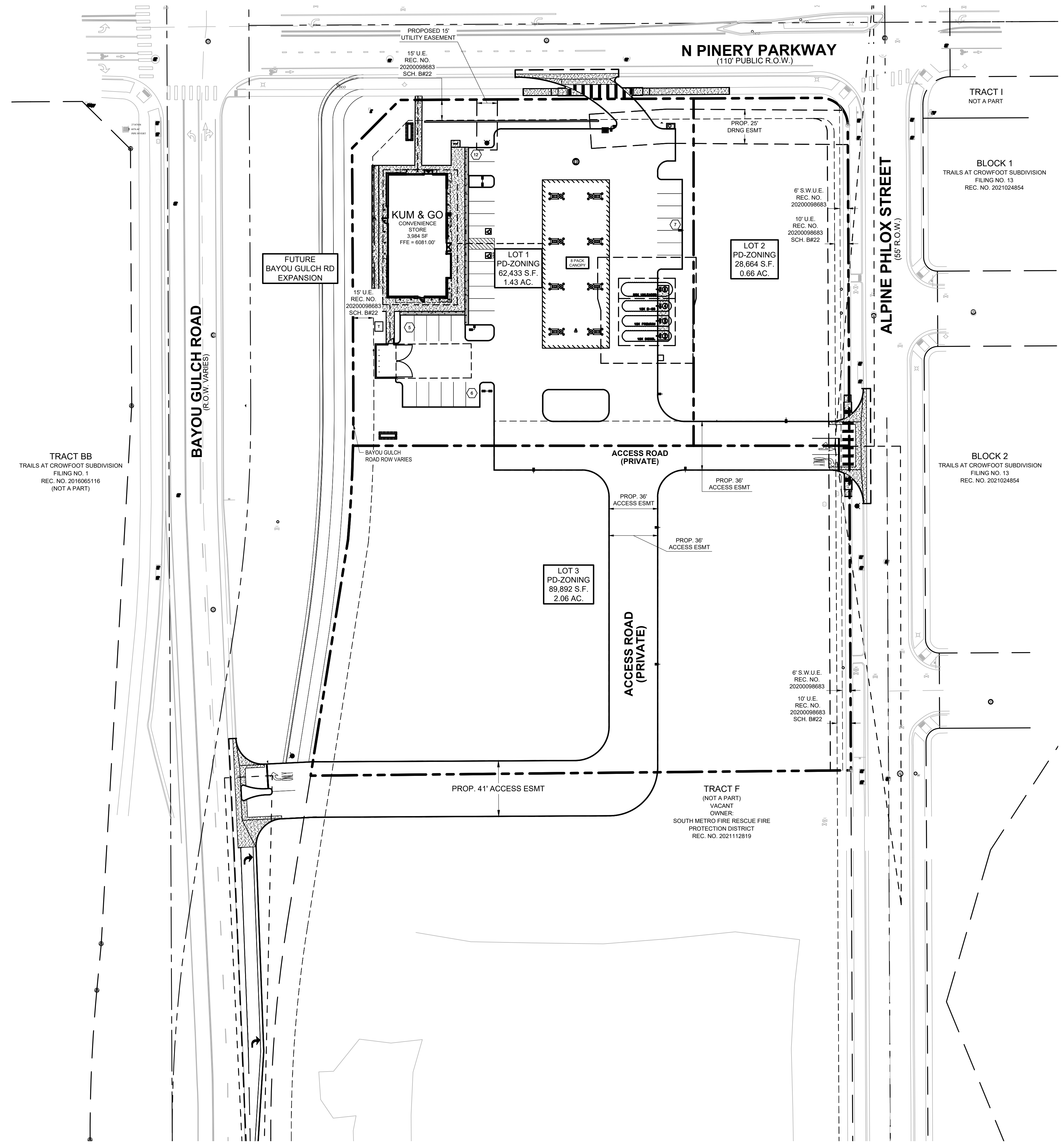
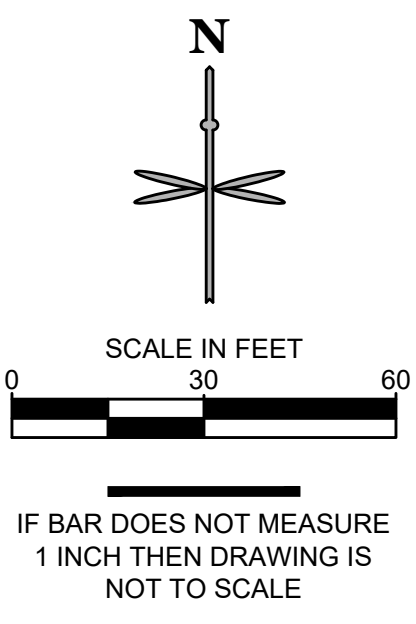
REVISION DESCRIPTION	DATE

DATE: 07-12-2023

SHEET NUMBER:
C2
2 OF 19

SITE PLAN LEGEND

	PROPERTY BOUNDARY		EXISTING STORM SEWER MANHOLE/INLET
	PROPOSED EASEMENT		PROPOSED STORM SEWER MANHOLE/INLET
	EXISTING EASEMENT		EXISTING STREET LIGHTING
	EXISTING CURB & GUTTER		EXISTING FIRE HYDRANT
	PROPOSED INTEGRAL CURB		EXISTING SIGNAGE
	PROPOSED BUILDING		PROPOSED SITE LIGHTING
	PROPOSED ACCESSIBLE ROUTE		PROPOSED PARKING COUNT
	PROPOSED CONCRETE WALK		
	PROPOSED COLORED CONCRETE		



GENERAL NOTES:

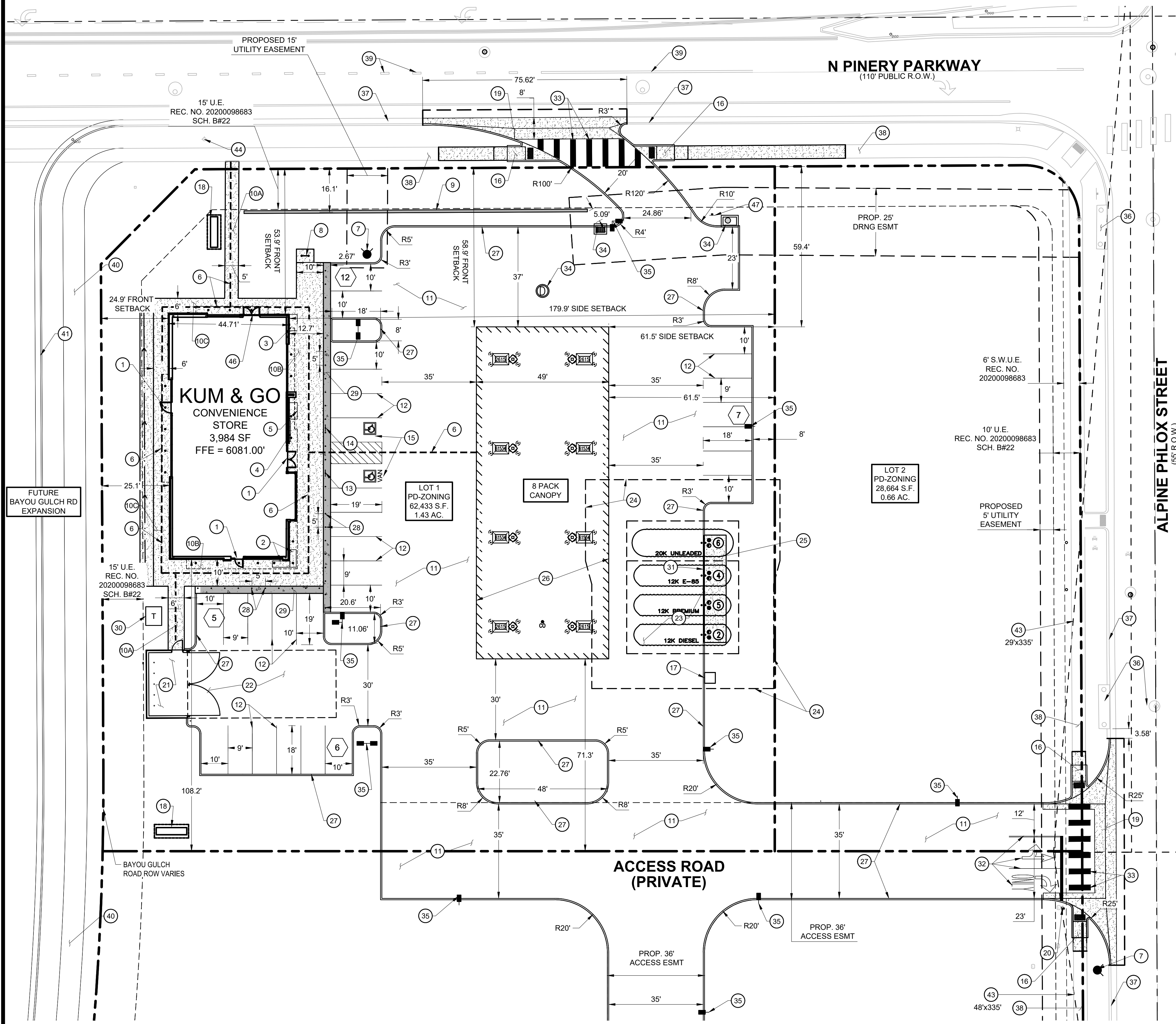
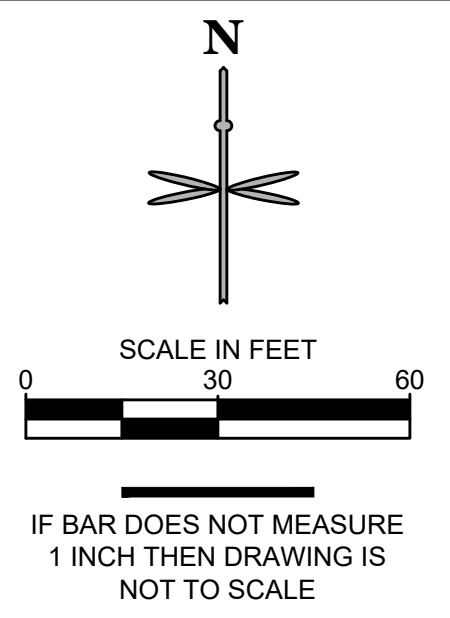
- ALL ITEMS IN SCHEDULE ARE FINAL UNLESS NOTED OTHERWISE.
- ALL EXISTING UTILITIES TO REMAIN UNLESS NOTED OTHERWISE.
- ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD SPECIFICATIONS OF ALL GOVERNING JURISDICTIONS AS APPLICABLE.
- EMERGENCY AND SERVICE TRUCKS WILL MANEUVER THROUGH DRIVE AISLES IN A ONE-WAY TRAFFIC MOVEMENT.
- CARS/TRUCKS WILL MANEUVER AROUND BUILDING DRIVE AISLES IN A TWO-WAY TRAFFIC MOVEMENT UNLESS OTHERWISE NOTED FOR SPECIFIC DRIVES.
- HANDICAP PARKING AREAS PROVIDED PER TOWN STANDARDS AND SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT, ADOPTED UNIFORM BUILDING CODE.
- MECHANICAL UNITS, DUMPSTERS AND TRASH COMPACTORS SHALL BE SCREENED IN ACCORDANCE WITH THE TOWN LAND DEVELOPMENT ORDINANCE.
- ALL SIGNAGE SHALL BE BY SEPARATE PERMIT THROUGH THE TOWN. ALL SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE LAND DEVELOPMENT ORDINANCE.
- SIDEWALKS SHALL NOT EXCEED 2% CROSS SLOPE.
- ALL DIMENSIONS ARE FLOWLINE TO FLOWLINE UNLESS OTHERWISE NOTED.
- ALL PARKING LOT STRIPING SHALL BE WHITE.
- SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

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

CALL UTILITY NOTIFICATION
CENTER OF COLORADO
1-800-922-1987 or 811

CALL 3-BUSINESS DAYS (NOT INCLUDING INITIAL DAY OF CONTACT) IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1 KUM & GO #2293 GAS & C-STORE SITE PLAN



SITE PLAN LEGEND

- | | | | |
|--|---------------------------|--|------------------------------------|
| | PROPERTY BOUNDARY | | EXISTING STORM SEWER MANHOLE/INLET |
| | PROPOSED EASEMENT | | PROPOSED STORM SEWER MANHOLE/INLET |
| | EXISTING EASEMENT | | EXISTING STREET LIGHTING |
| | EXISTING CURB & GUTTER | | EXISTING FIRE HYDRANT |
| | PROPOSED INTEGRAL CURB | | EXISTING SIGNAGE |
| | PROPOSED BUILDING | | PROPOSED SITE LIGHTING |
| | PROPOSED ACCESSIBLE ROUTE | | PROPOSED PARKING COUNT |
| | PROPOSED CONCRETE WALK | | |
| | PROPOSED COLORED CONCRETE | | |

SITE SCHEDULE:

- | | |
|--|--|
| 1 BUILDING ENTRY. | 23 UNDERGROUND FUEL STORAGE TANKS. |
| 2 PROPANE CAGE. | 24 TANK OVERDIG LIMITS. |
| 3 MISCELLANEOUS MERCHANDISE. | 25 8' X 40' CONCRETE PAD FOR FUEL FILL LIDS. |
| 4 FIREWOOD. | 26 FUELING CANOPY. |
| 5 ICE MERCHANDISER. | 27 INTEGRAL CONCRETE CURB. |
| 6 ADA ROUTE. | 28 4" DIAMETER BOLLARDS @ 5' O.C. |
| 7 FIRE HYDRANT. | 29 BROOM FINISH CONCRETE PAVEMENT. |
| 8 BOLLARD SHAPED BIKE RACK. | 30 ELECTRICAL TRANSFORMER LOCATION. |
| 9 SCREENING LANDSCAPE HEDGE. REFER TO LANDSCAPE PLAN (128 LF). | 31 PAINT CURB ALONG FRONT OF TANKS YELLOW. |
| 10A 4" CONCRETE SITE SIDEWALK, 1.5% MAX. CROSS SLOPE. | 32 DRIVEWAY ENTRANCE PAVEMENT MARKINGS. |
| 10B BUILDING CONCRETE SIDEWALK, 1.5% MAX. CROSS SLOPE. | 33 2'X10' CROSSWALK STRIPES. |
| 10C BUILDING CONCRETE SIDEWALK ADJACENT TO LANDSCAPE, 1.5% MAX. CROSS SLOPE. | 34 STORM INLET/MANHOLE. |
| 11 STANDARD DUTY CONCRETE PAVEMENT. | 35 APPROXIMATE LOCATION OF SITE LIGHTING. REFER TO PHOTOMETRIC PLAN FOR DETAILS. |
| 12 4" WIDE WHITE PAVEMENT MARKING, TYP. | 36 EXISTING STORM SEWER MAIN / INLET / MANHOLE TO REMAIN. |
| 13 BOLLARD MOUNTED ADA VAN PARKING SIGN. | 37 EXISTING CURB AND GUTTER TO REMAIN. |
| 14 BOLLARD MOUNTED ADA PARKING SIGN. | 38 EXISTING SIDEWALK TO REMAIN. |
| 15 ACCESSIBLE PARKING SPACE. | 39 EXISTING ROAD PAVEMENT MARKINGS TO REMAIN. |
| 16 ADA CURB RAMP. | 40 FUTURE SIDEWALK TO BE CONSTRUCTED WITH BAYOU GULCH EXPANSION. |
| 17 AIR MACHINE LOCATION. | 41 8' CONCRETE PUBLIC SIDEWALK TO BE CONSTRUCTED WITH BAYOU GULCH EXPANSION. |
| 18 8' TALL MONUMENT SIGN. | 42 FUTURE CURB & GUTTER TO BE CONSTRUCTED WITH BAYOU GULCH EXPANSION. |
| 19 8' CONCRETE CROSSSPAN | 43 PROPOSED SIGHT TRIANGLE. |
| 20 STOP SIGN (R1-1). | 44 EXISTING FIRE HYDRANT TO REMAIN. |
| 21 14'-8" X 24'-8" TRASH ENCLOSURE. | 45 PROPOSED MOUNTABLE CURB ISLAND. |
| 22 55'X25' MINIMUM GARBAGE TRUCK CLEAR SPACE. | 46 PROPOSED FIRE RISER ROOM ENTRY. |
| | 47 DO NOT ENTER SIGN (R5-1). |

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- SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.

PARKING COUNT			
PARKING SPACE TYPE	COUNT	WIDTH	LENGTH
ADA SPACE	2	9'-0"	19'-0"
ON-SITE	18	9'-0"	19'-0" FACING BUILDING 18'-0" FACING LANDSCAPE
ON-SITE ADJACENT TO LANDSCAPE	10	10'-0"	19'-0" FACING BUILDING 18'-0" FACING LANDSCAPE
TOTAL	31		

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SITE PLAN
2293 - KUM AND GO - PARKER, CO
 NEC OF BAYOU GULCH RD AND PINERY PKWY
 SITE PLAN

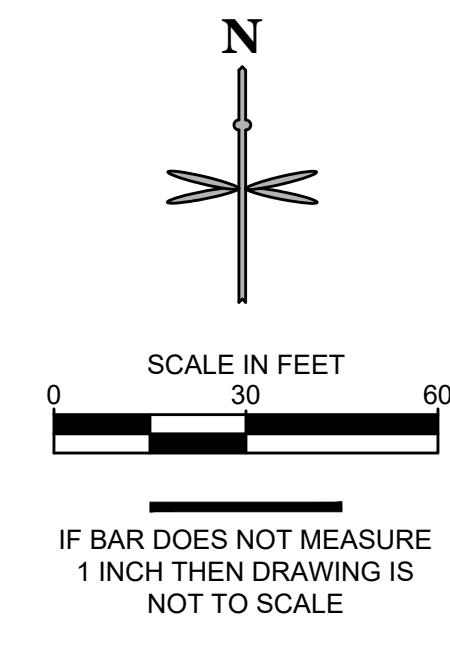
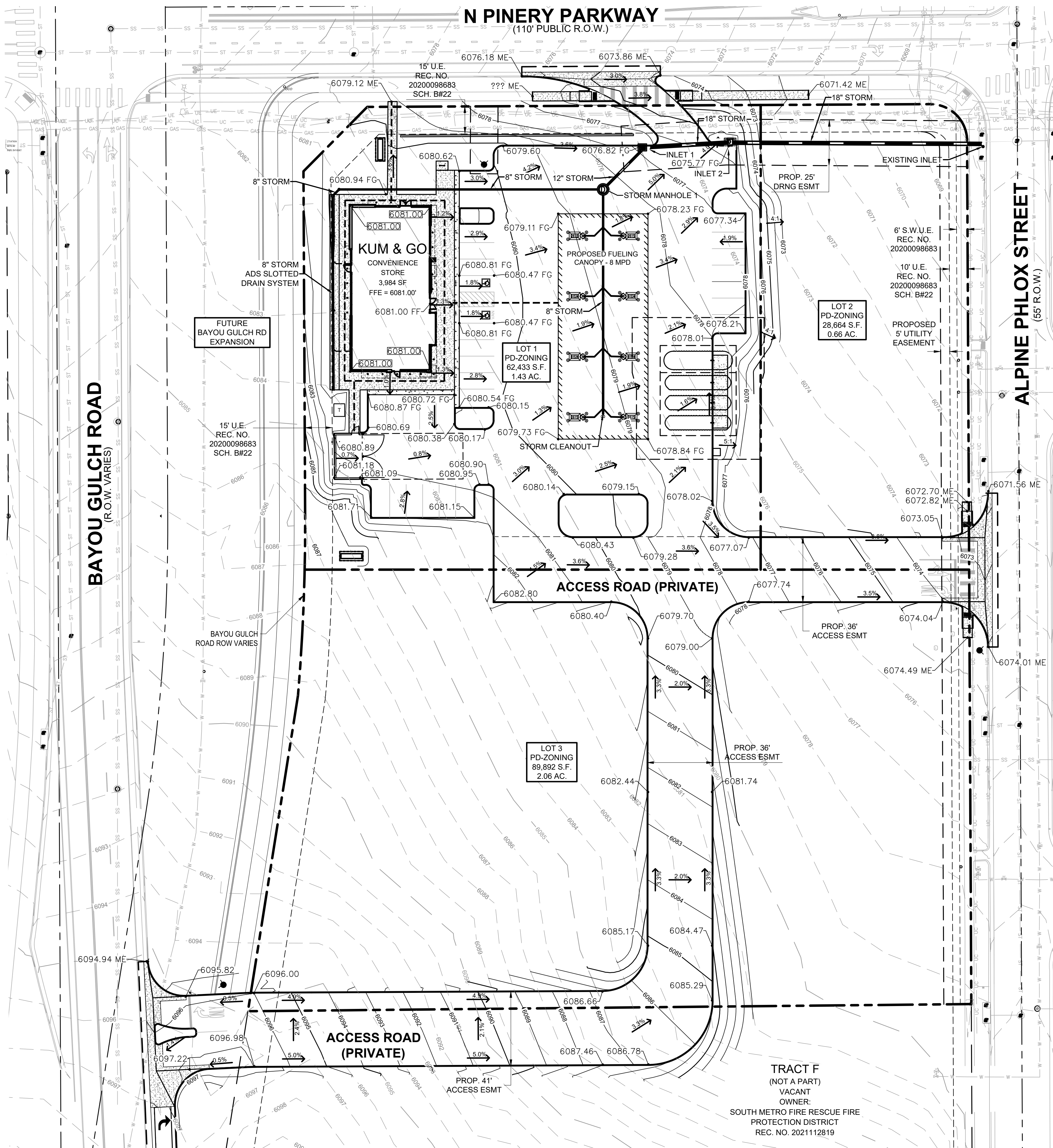
KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

REVISION DESCRIPTION	DATE

DATE: 07-12-2023

SHEET NUMBER:
C3
3 OF 19

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1
KUM & GO #2293 GAS & C-STORE SITE PLAN



LEGEND

- PROPERTY BOUNDARY
- - - PROPOSED EASEMENT
- - - EXISTING EASEMENT
- EXISTING CURB AND GUTTER
- PROPOSED CURB AND GUTTER
- 6080 PROPOSED MAJOR CONTOUR
- 6081 PROPOSED MINOR CONTOUR
- 6080- EXISTING MAJOR CONTOUR
- 6081- EXISTING MINOR CONTOUR
- - - PROPOSED ACCESSIBLE ROUTE
- 5836.21 PROPOSED FLOW LINE ELEVATION
- 5836.21 SW PROPOSED SIDEWALK ELEVATION
- 5836.21 ME PROPOSED GRADE TO MATCH EXISTING
- 5836.21 TBC PROPOSED TOP BACK OF CURB ELEVATION
- 5836.21 FG PROPOSED FINISHED GRADE ELEVATION
- 5836.21 PROPOSED EXTERIOR GRADE AT FOUNDATION
- ← 3.1% FLOW ARROW AND GRADE



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SITE PLAN
2293 - KUM AND GO - PARKER, CO
NEC OF BAYOU GULCH RD AND PINERY PKWY
GRADING PLAN

KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

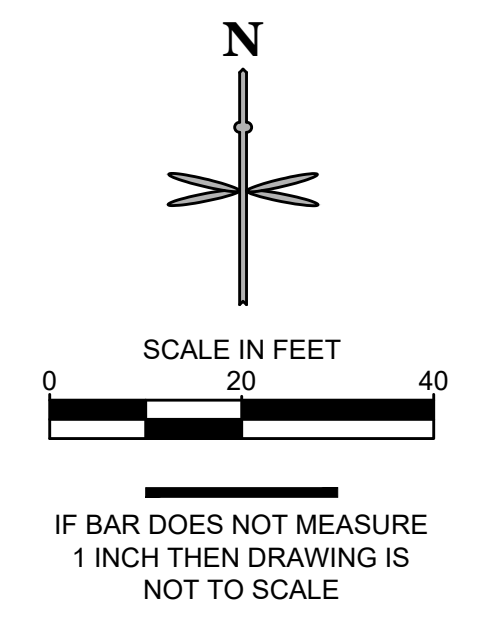
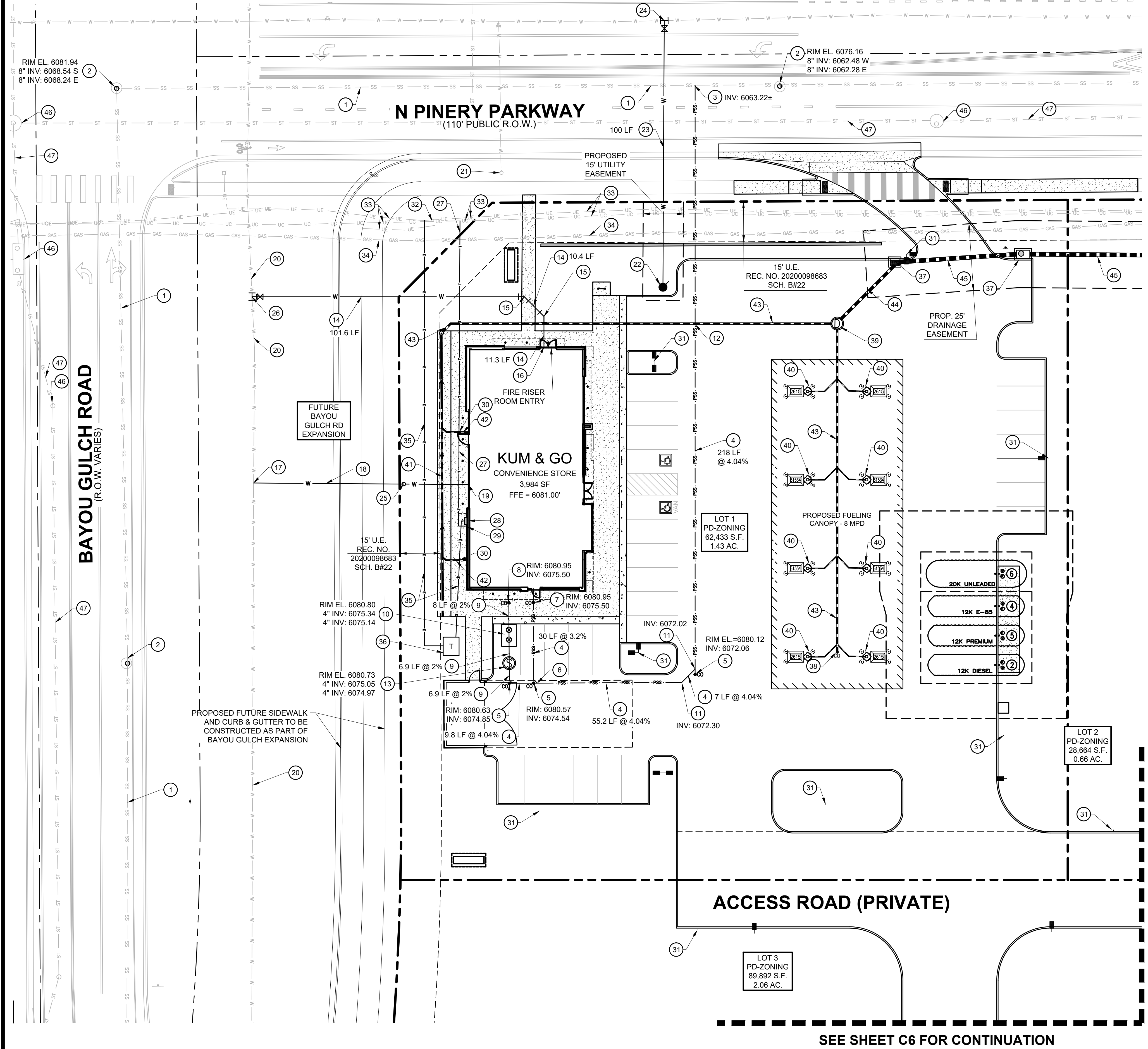
REVISION DESCRIPTION	DATE

DATE: 07-12-2023

SHEET NUMBER:
C4
4 OF 19

P:\KUM & GO\CO, PARKER, 2293 - PINERY AND BAYOU GULCH\08 CAD\DP\2293 - 05 - DP GRADING PLANDWG

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1
KUM & GO #2293 GAS & C-STORE SITE PLAN



UTILITY LEGEND

---	PROPERTY BOUNDARY
---	EXISTING EASEMENT
---	EXISTING SANITARY SEWER
---	EXISTING WATER
---	EXISTING STORM SEWER
---	EXISTING UNDERGROUND ELECTRIC
---	EXISTING UNDERGROUND COMMUNICATION
---	EXISTING GAS
---	PROPOSED SANITARY SEWER
---	PROPOSED WATER
---	PROPOSED STORM SEWER
---	PROPOSED UNDERGROUND ELECTRIC
---	PROPOSED COMMUNICATION LINE
---	PROPOSED STORM INLET AND MANHOLE
---	PROPOSED DRAINAGE FLOW ARROWS
---	EXISTING STREET LIGHT
---	EXISTING FIRE HYDRANT
---	PROPOSED SITE LIGHT

SANITARY SEWER

- 1 EXISTING 8" SANITARY SEWER MAIN TO REMAIN.
- 2 EXISTING SANITARY SEWER MANHOLE TO REMAIN.
- 3 PROPOSED WYE CONNECTION AT EXISTING 8" SANITARY SEWER MAIN.
- 4 PROPOSED 4" PVC SANITARY SERVICE. SEE PLAN FOR PIPE SLOPE AND LENGTH.
- 5 PROPOSED 4" SANITARY SEWER CLEANOUT. SEE PLAN FOR INVERT ELEVATION.
- 6 PROPOSED WYE CONNECTION. SEE PLAN FOR INVERT ELEVATION.
- 7 PROPOSED 4" SANITARY SEWER SERVICE CONNECTION 5' FROM BUILDING.
- 8 PROPOSED 4" GREASE INTERCEPTOR SERVICE CONNECTION 5' FROM BUILDING.
- 9 PROPOSED 4" PVC GREASE INTERCEPTOR SERVICE LINE. SEE PLAN FOR PIPE SLOPE AND LENGTH.
- 10 PROPOSED 1,000 GALLON GREASE INTERCEPTOR WITH SAMPLE PORT. SEE PLAN FOR PIPE CONNECTION INVERT ELEVATIONS AND RIM ELEVATIONS.
- 11 PROPOSED 4" 45° BEND. SEE PLAN FOR INVERT ELEVATION.
- 12 PROPOSED 4" SEWER SERVICE LINE CROSSING WITH PROPOSED 8" STORM SEWER. 4" SS INV: 6066.81 8"SD INV: 6075.45
- 13 PROPOSED SANITARY SAMPLING MANHOLE.

WATER

- 14 PROPOSED 6" DIP FIRE LINE (PRIVATE).
- 15 PROPOSED 45° - 6" DIP BENDS WITH THRUST BLOCKS.
- 16 PROPOSED 6" DIP FIRE SERVICE LINE (PRIVATE) CONNECTION TO BUILDING. PROVIDE 5.5-FT OF COVER.
- 17 PROPOSED 2" DOMESTIC WATER SERVICE TAP.
- 18 PROPOSED 81 LF OF 2" TYPE K COPPER DOMESTIC WATER SERVICE LINE.
- 19 PROPOSED 2" TYPE K COPPER DOMESTIC WATER CONNECTION TO BUILDING AND WATER METER INSET BUILDING. PROVIDE 5.5-FT OF COVER. STUB 5' OFF OF BUILDING.
- 20 EXISTING WATER MAIN TO REMAIN.
- 21 EXISTING FIRE HYDRANT TO REMAIN.
- 22 PROPOSED FIRE HYDRANT.
- 23 PROPOSED 6" DIP FIRE HYDRANT LINE (PUBLIC).
- 24 PROPOSED 6" DIP FIRE HYDRANT SERVICE CONNECTION TO WATER MAIN. INSTALL 12"x6" TAPPING SLEEVE WITH 6" TAPPING VALVE.
- 25 PROPOSED 2" CURB STOP.
- 26 PROPOSED 6" DIP FIRE LINE SERVICE CONNECTION TO WATER MAIN. INSTALL 12"x6" TAPPING SLEEVE WITH 6" TAPPING VALVE.

DRY UTILITIES

- 27 APPROXIMATE LOCATION OF PROPOSED TELECOMMUNICATION SERVICE LINE.
- 28 PROPOSED ELECTRICAL BUILDING CONNECTION. CORE EUSREC CABINET (30"W x 30"H x 11"D)
- 29 PROPOSED TELECOMMUNICATION BUILDING CONNECTION.
- 30 ELECTRICAL AND TELECOMMUNICATION LINES UNDER PROPOSED ROOF DRAIN AT CROSSING.
- 31 APPROXIMATE LOCATION OF PROPOSED SITE LIGHT.
- 32 EXISTING TEL-PED TO REMAIN.
- 33 EXISTING UNDERGROUND TELECOMMUNICATIONS AND ELECTRIC TO REMAIN.
- 34 EXISTING GAS MAIN TO REMAIN.
- 35 APPROXIMATE LOCATION OF PROPOSED UNDERGROUND ELECTRICAL SERVICE LINE.
- 36 PROPOSED ELECTRIC TRANSFORMER PAD.

STORM SEWER

- NOTE: REFERENCE KUM & GO GAS AND C-STORE CONSTRUCTION DOCUMENTS FOR STORM SEWER DESIGN INFORMATION.
- 37 PROPOSED STORM SEWER INLET.
 - 38 PROPOSED STORM SEWER CLEANOUT.
 - 39 PROPOSED STORM SEWER MANHOLE.
 - 40 PROPOSED 4" PVC CANOPY DRAIN PIPE CONNECTION.
 - 41 PROPOSED 8" STORM ADS SLOTTED DRAIN.
 - 42 PROPOSED 6" ROOF DOWNSPOT WITH DRAIN LINE CONNECTION TO 8" ADS SLOTTED DRAIN.
 - 43 PROPOSED 8" STORM SEWER, SDR 35 PVC SOLID OR DUEL WALL HDPE W/ WATER TIGHT FITTINGS.
 - 44 PROPOSED 12" STORM SEWER, SDR 35 PVC SOLID OR DUEL WALL HDPE W/ WATER TIGHT FITTINGS.
 - 45 PROPOSED 18" RCP STORM SEWER.
 - 46 EXISTING STORM STRUCTURE TO REMAIN.
 - 47 EXISTING STORM SEWER TO REMAIN.



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SITE PLAN
2293 - KUM AND GO - PARKER, CO
NEC OF BAYOU GULCH RD AND PINERY PKWY
UTILITY PLAN

KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

REVISION DESCRIPTION	DATE

DATE: 07-12-2023

SHEET NUMBER:
C5
5 OF 19

P:\KUM & GO\CO, PARKER, 2293 - PINERY AND BAYOU GULCH\08 CAD\DWG\2293-04 - DP - UTILITY PLAN.DWG

811
CALL UTILITY NOTIFICATION CENTER OF COLORADO
1-800-922-1987 or 811
CALL 3-BUSINESS DAYS (NOT INCLUDING INITIAL DAY OF CONTACT) IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.
Know what's below.
Call before you dig.

SEE SHEET C6 FOR CONTINUATION

SEE SHEET C6 FOR CONTINUATION

**TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1
KUM & GO #2293 GAS & C-STORE SITE PLAN**

UTILITY LEGEND

	PROPERTY BOUNDARY
	EXISTING EASEMENT
	EXISTING SANITARY SEWER
	EXISTING WATER
	EXISTING STORM SEWER
	EXISTING UNDERGROUND ELECTRIC
	EXISTING UNDERGROUND COMMUNICATION
	EXISTING GAS
	PROPOSED SANITARY SEWER
	PROPOSED WATER
	PROPOSED STORM SEWER
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED COMMUNICATION LINE
	PROPOSED STORM INLET AND MANHOLE
	PROPOSED DRAINAGE FLOW ARROWS
	EXISTING STREET LIGHT
	EXISTING FIRE HYDRANT
	PROPOSED SITE LIGHT



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SITE PLAN
2293 - KUM AND GO - PARKER, CO
NEC OF BAYOU GULCH RD AND PINERY PKWY
OFFSITE UTILITY PLAN

KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

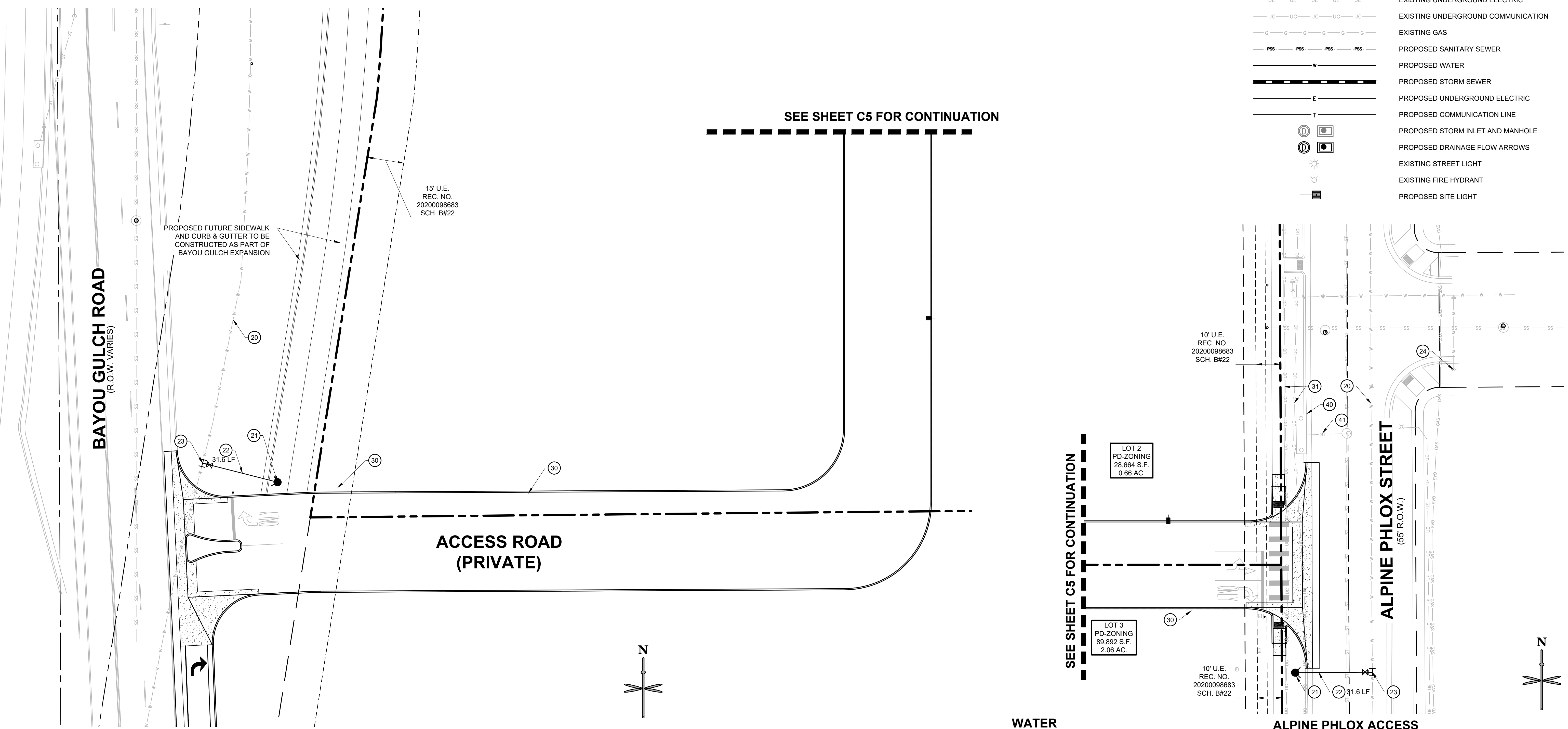
REVISION DESCRIPTION	DATE

DATE: 07-12-2023

SHEET NUMBER:
C6
6 OF 19

SEE SHEET C5 FOR CONTINUATION

SEE SHEET C5 FOR CONTINUATION



PROPOSED FUTURE SIDEWALK AND CURB & GUTTER TO BE CONSTRUCTED AS PART OF BAYOU GULCH EXPANSION

15' U.E.
REC. NO.
20200098683
SCH. B#22

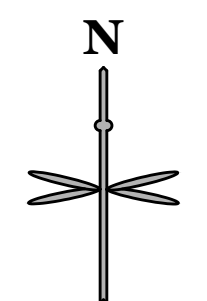
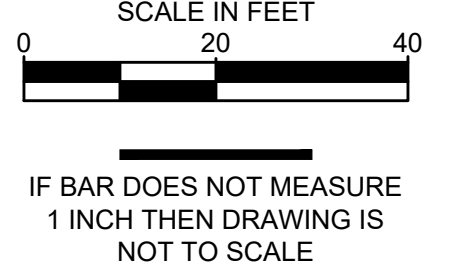
10' U.E.
REC. NO.
20200098683
SCH. B#22

10' U.E.
REC. NO.
20200098683
SCH. B#22

LOT 2
PD-ZONING
28,664 S.F.
0.66 AC.

LOT 3
PD-ZONING
89,892 S.F.
2.06 AC.

BAYOU GULCH ACCESS



WATER

- (20) EXISTING WATER MAIN TO REMAIN.
- (21) PROPOSED FIRE HYDRANT.
- (22) PROPOSED 6" DIP FIRE HYDRANT LINE (PUBLIC).
- (23) PROPOSED 6" DIP FIRE HYDRANT SERVICE CONNECTION TO WATER MAIN. INSTALL 12"x6" TAPPING SLEEVE WITH 6" TAPPING VALVE.
- (24) EXISTING FIRE HYDRANT TO REMAIN

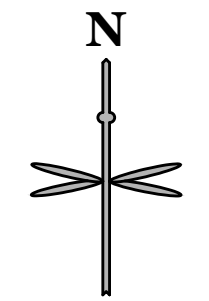
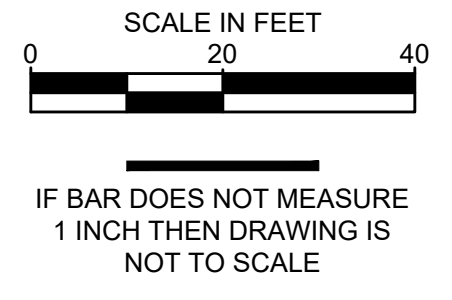
DRY UTILITIES

- (30) APPROXIMATE LOCATION OF PROPOSED SITE LIGHT.
- (31) EXISTING UNDERGROUND TELECOMMUNICATIONS AND ELECTRIC TO REMAIN.

STORM SEWER

- NOTE: REFERENCE KUM & GO GAS AND C-STORE CONSTRUCTION DOCUMENTS FOR STORM SEWER DESIGN INFORMATION.
- (40) EXISTING STORM STRUCTURE TO REMAIN.
 - (41) EXISTING STORM SEWER TO REMAIN.

ALPINE PHLOX ACCESS



811
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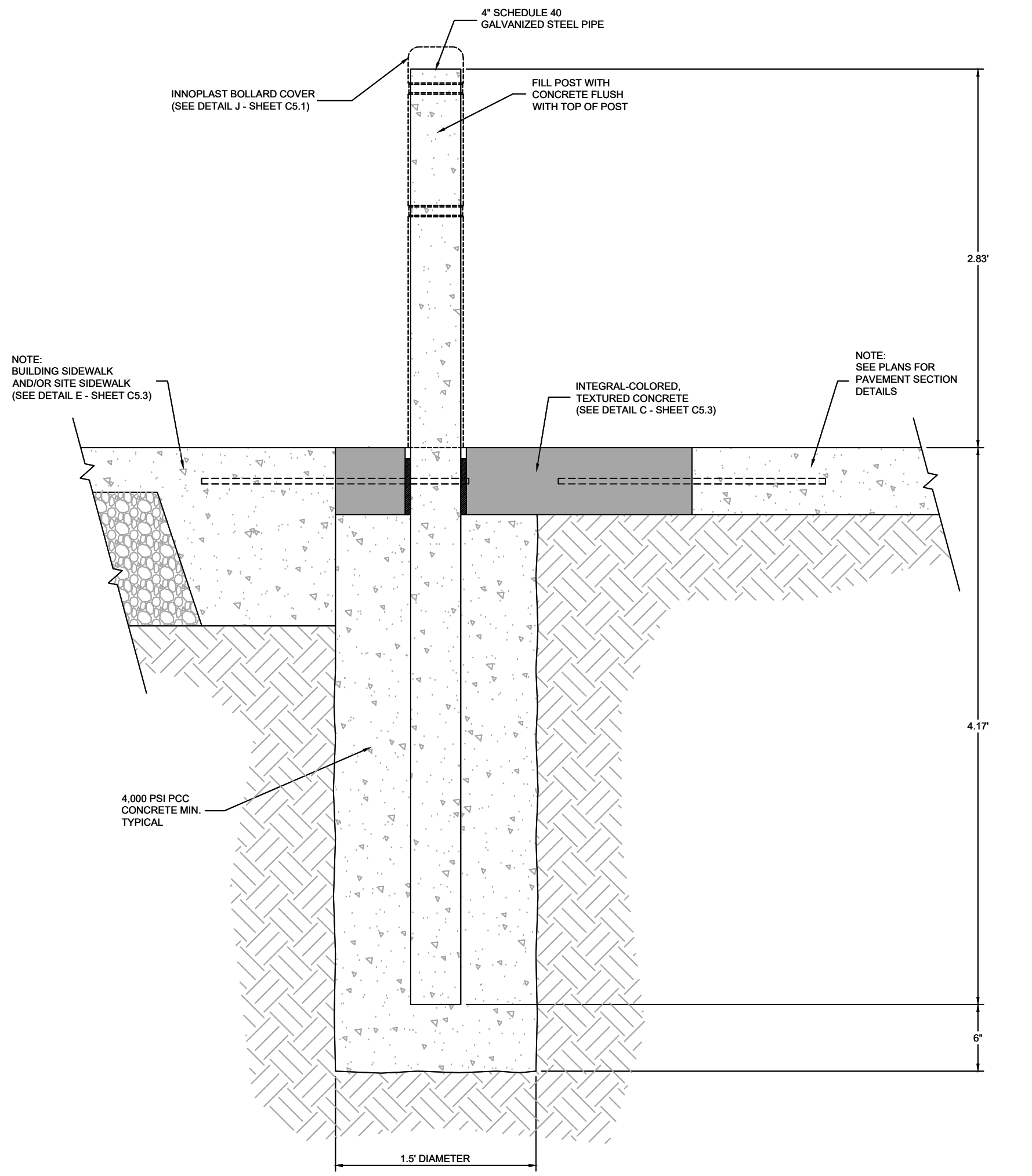
SITE PLAN
2293 - KUM AND GO - PARKER, CO
NEC OF BAYOU GULCH RD AND PINERY PKWY
CIVIL DETAILS

KG PROJECT TEAM: EES
RDM:
SDM:
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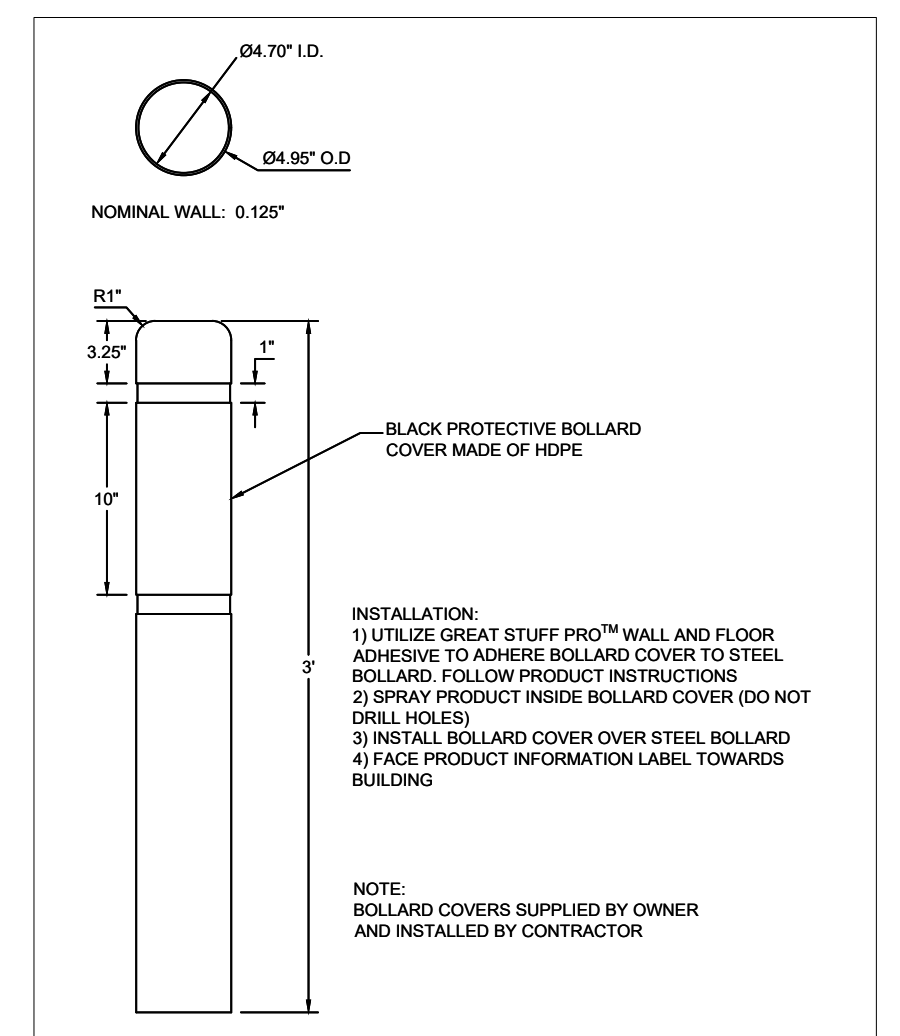
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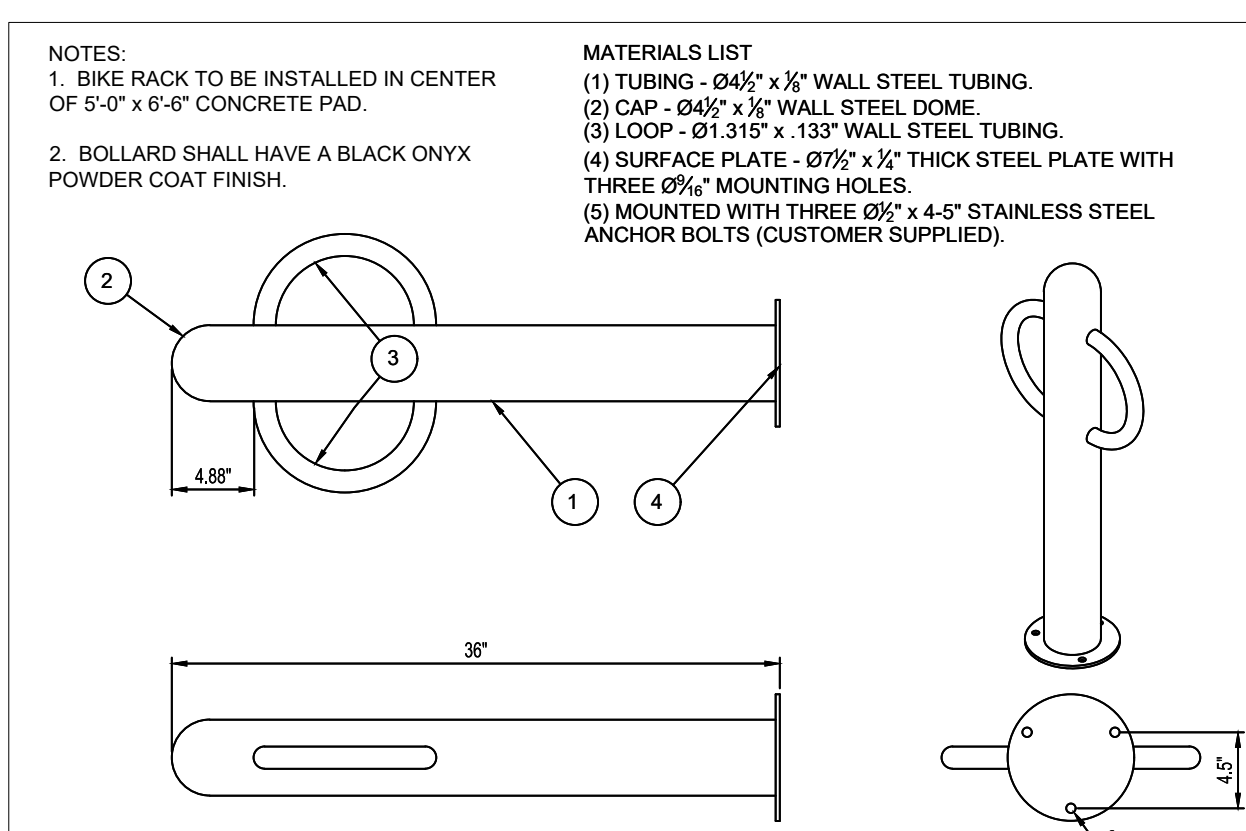
SHEET NUMBER:
C7
7 OF 19



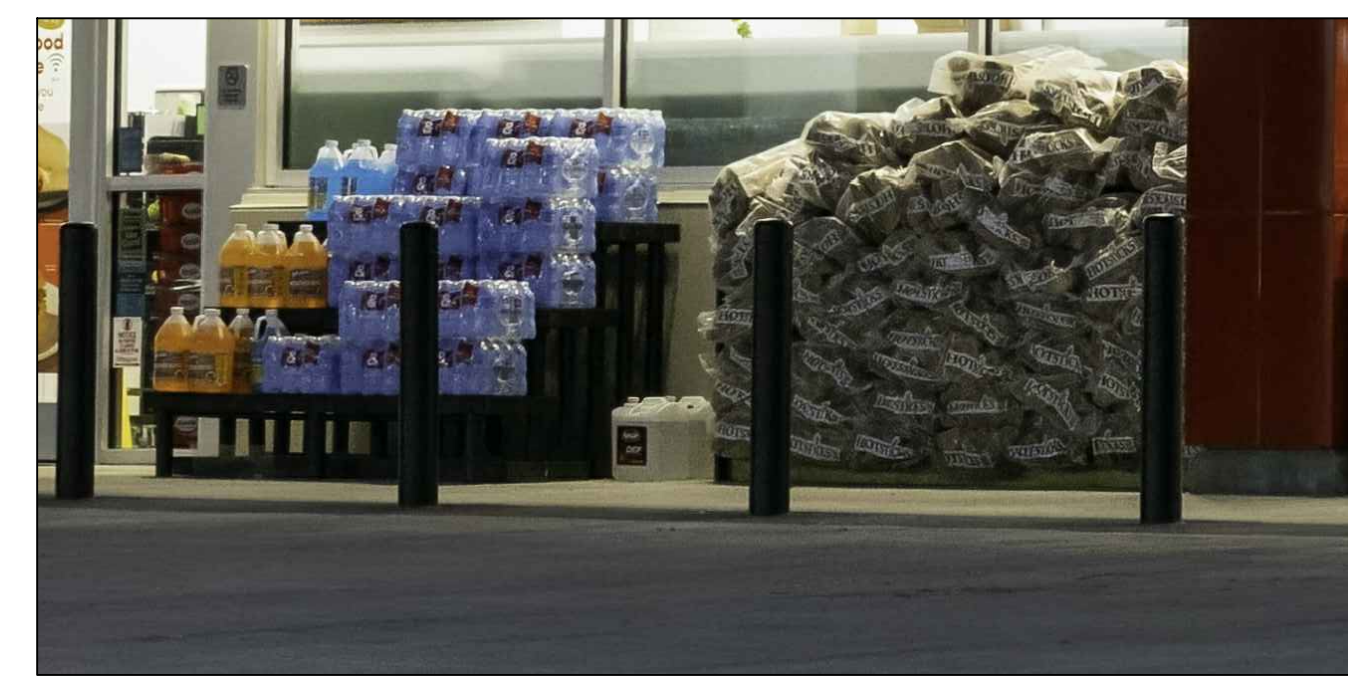
1 BOLLARD DETAIL (TYP.)
NOT TO SCALE



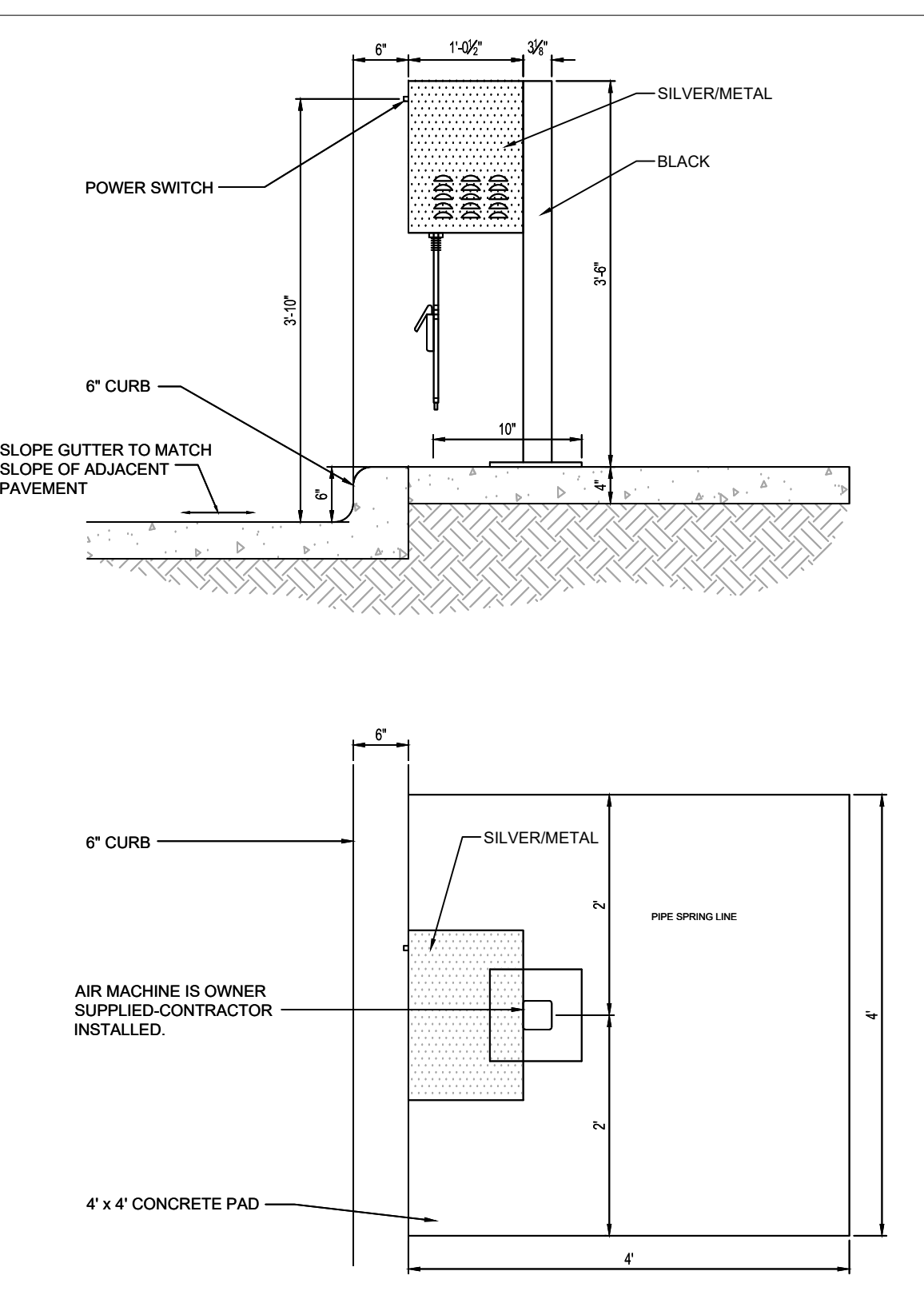
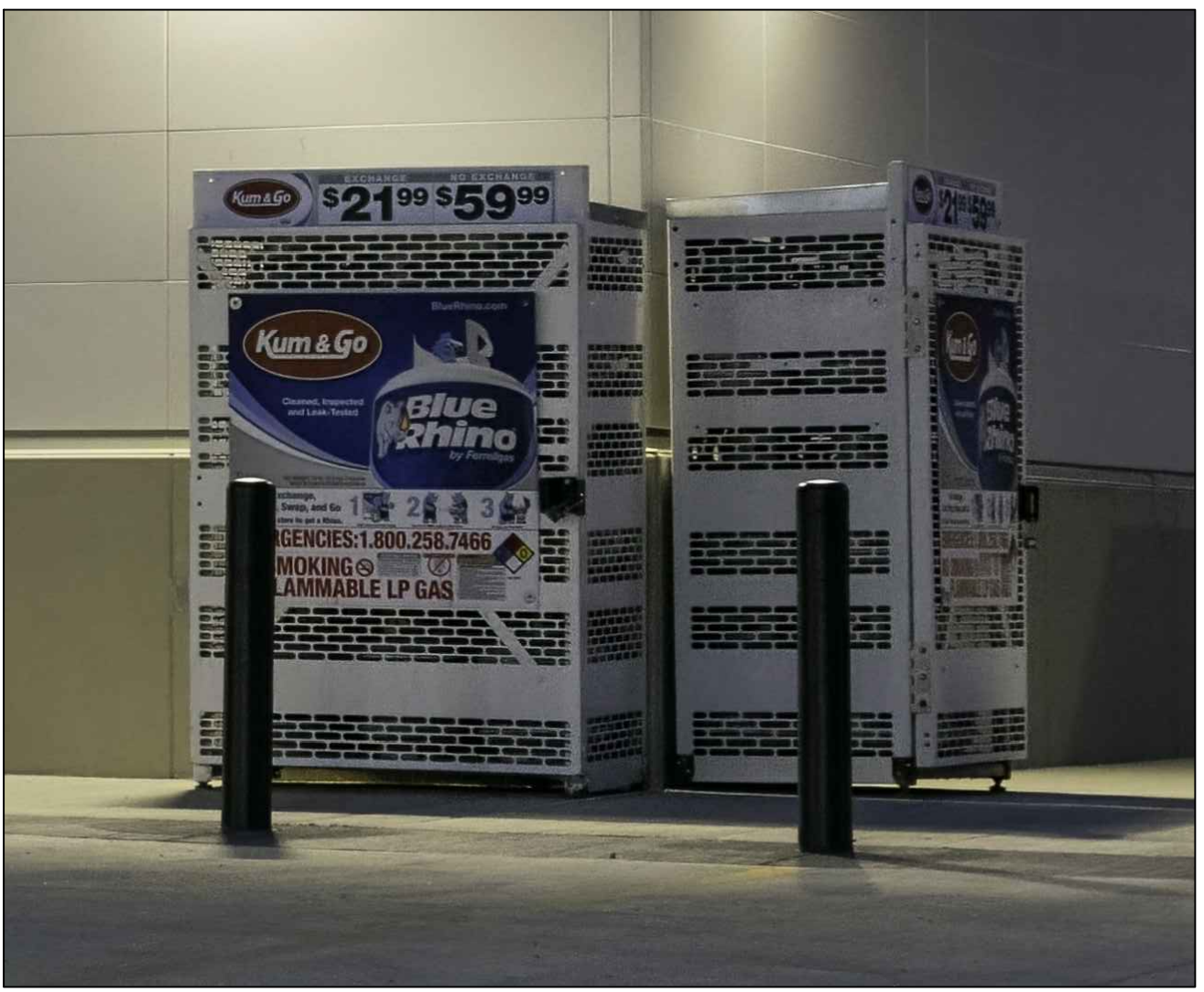
3 INNOPLAST BOLLARD COVER
NOT TO SCALE



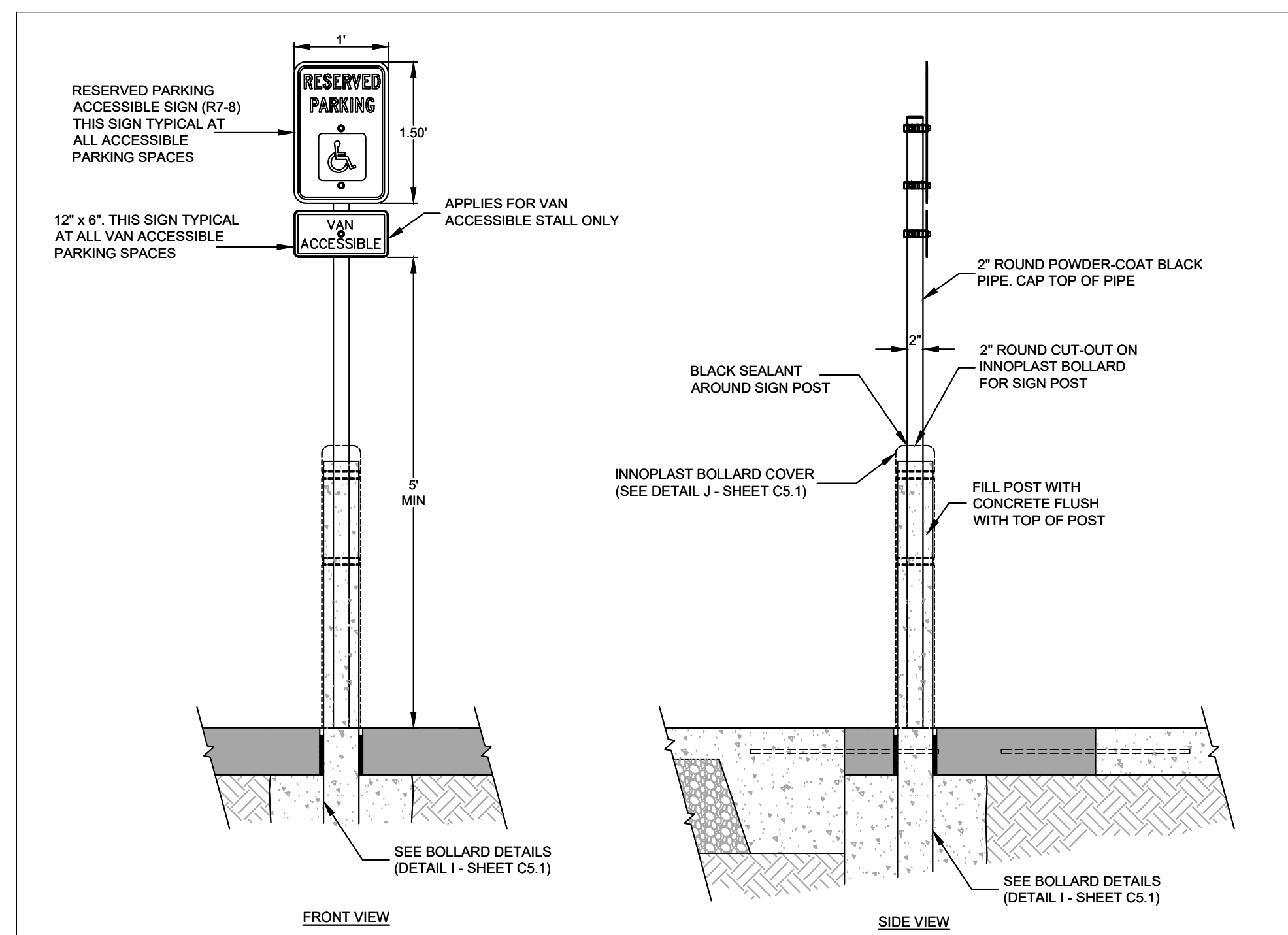
4 BOLLARD BIKE RACK DETAIL
NOT TO SCALE



6 MERCHANDISING IMAGES
NOT TO SCALE



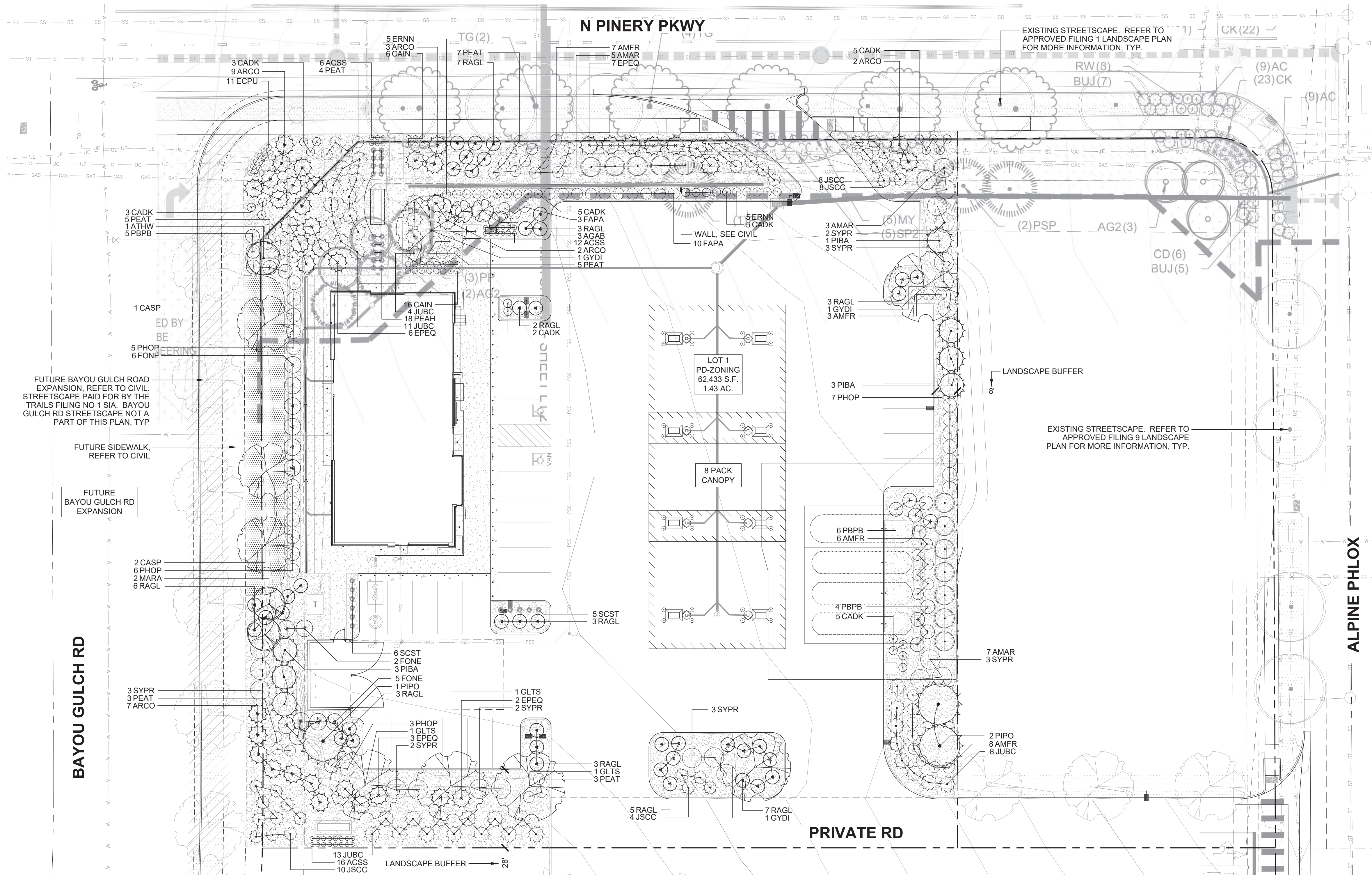
2 AIR MACHINE
NOT TO SCALE



5 BOLLARD-MOUNTED ADA SIGN
NOT TO SCALE

P:KUM & GO/CO. PARKER, 2293 - PINERY AND BAYOU GULCH/08 CADD/2293 - 06 - DP - CIVIL DETAILS.DWG

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1 KUM & GO #2293 GAS & C-STORE SITE PLAN



- ### LEGEND
- DECIDUOUS TREE
 - EVERGREEN TREE
 - ORNAMENTAL TREE
 - DECIDUOUS SHRUBS
 - EVERGREEN SHRUBS
 - ORNAMENTAL GRASS
 - PERENNIALS
 - NATIVE SEED MIX
 - 2"-6" ROCK MULCH
 - LANDSCAPE EDGER
 - SIGHT TRIANGLE



PRELIMINARY
NOT FOR
CONSTRUCTION

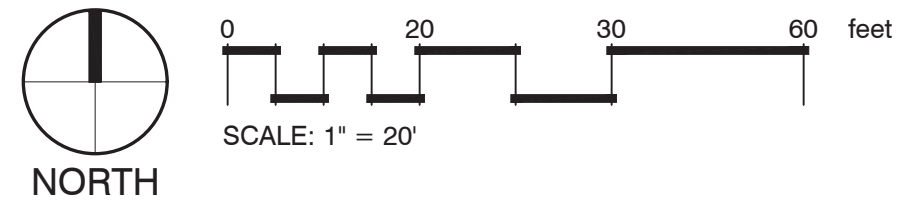


1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

SITE PLAN
2293 - KUM AND GO - PARKER, CO
NEC OF BAYOU GULCH RD AND PINERY PKWY
LANDSCAPE PLAN

KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

1 LANDSCAPE PLAN



INTERNAL LANDSCAPE

NET SITE AREA	LANDSCAPE AREA			% LIVE COVER		
	REQUIRED 15%	PROVIDED	SURPLUS/ DEFICIT	REQUIRED (75%)	PROVIDED	SURPLUS/ DEFICIT
62,434 SF	9,365 SF	20,915 SF	+11,550 SF	15,686 SF	17,150 SF	+1,464 SF

TYPICAL LANDSCAPE - OVERALL SITE

TREE REQUIREMENT 1/1500 SF			SHRUB REQUIREMENT 5/1500 SF		
REQUIRED	PROVIDED	SURPLUS/ DEFICIT	REQUIRED	PROVIDED	SURPLUS/ DEFICIT
14	3	-11	70	148 SHRUBS + 96 GRASSES /PERENNIALS (32 SHRUB EQUIVALENTS)	+110

SITE PERIMETER LANDSCAPE

LOCATION	TREE REQ. (1/40 LF)			SHRUB REQ. (5/40 LF)		
	REQUIRED	PROVIDED	SURPLUS/ DEFICIT	REQUIRED	PROVIDED	SURPLUS/ DEFICIT
NORTH	6	3	-3	30	60	+30
EAST	7	7	0	35	35	0
SOUTH	7	6	-1	35	45	+10
WEST	6	6	0	30	30	0

*WHERE TREE DEFICITS EXIST, SHRUBS HAVE BEEN PLANTED IN LIEU OF TREES TO MEET THESE REQUIREMENTS, WITH 10 SHRUBS EQUIVALENT TO 1 TREE (AS DEPICTED IN THE SURPLUS COLUMN).

NORTHWEST CORNER ENHANCED LANDSCAPE

TREE REQUIREMENT 1/1000 SF			SHRUB REQUIREMENT 5/1000 SF		
REQUIRED	PROVIDED	SURPLUS/ DEFICIT	REQUIRED	PROVIDED	SURPLUS/ DEFICIT
1	0	-1	5	15	+10

TOTAL LANDSCAPE

	REQUIRED	PROVIDED
TOTAL TREES/TE'S	41	25
TOTAL SHRUBS	205	333
TOTAL GRASSES	NA	29
TOTAL PERENNIALS	NA	67

TURF

	REQUIRED	PROVIDED
MAXIMUM ALLOWED	3,137 SF - 15%	
PROVIDED	1,586 SF - 7.6%	

EVERGREEN TREE REQUIREMENT - OVERALL SITE

	REQUIRED	PROVIDED
MINIMUM EVERGREEN REQ.		40%
MAXIMUM EVERGREEN REQ.		60%
% EVERGREEN PROVIDED		40%
NUMBER OF TREES	25 TOTAL	10
		10

PARKING LOT PERIMETER LANDSCAPE

LOCATION	BUFFER REQUIREMENT	
	REQUIRED	PROVIDED
EAST	8'	8'
SOUTH	10'	10'

REVISIONS

DATE	REVISION DESCRIPTION	PER COMMENTS	PER COMMENTS
3/16/23			
7/13/23			

DATE: 09-23-2022
SHEET NUMBER: L1
8 OF 19

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TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1 KUM & GO #2293 GAS & C-STORE SITE PLAN

PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	H' X W'
CASP	3	CATALPA SPECIOSA	WESTERN CATALPA	B & B	2.5" CAL	45' X 30'
GLTS	3	GLEDITSIA TRIACANTHOS 'INERMIS' 'SHADEMASTER'	'SHADEMASTER' HONEYLOCUST	B & B	2.5" CAL	60' X 30'
GYDI	3	GYMNOCLADUS DIOICA 'ESPRESSO'	KENTUCKY COFFEETREE	B & B	2.5" CAL	50' X 35'
EVERGREEN TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	H' X W'
PIBA	7	PICEA PUNGENS 'BAKERI'	BLUE SPRUCE	B & B	6' HT	30' X 15'
PIPO	3	PINUS PONDEROSA	PONDEROSA PINE	B & B	6' HT	50' X 25'
ORNAMENTAL TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	H' X W'
ATHW	1	ACER TATARICUM 'GARANN'	HOT WINGS TATARIAN MAPLE	B & B	2" CAL	20' X 20'
AGAB	3	AMELANCHIER X GRANDIFLORA 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE' SERVICEBERRY	B & B	2" CAL	15' X 10'
MARA	2	MALUS X 'RADIANT'	RADIANT CRAB APPLE	B & B	2" CAL	20' X 20'
DECIDUOUS SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT		
AMAR	15	AMELANCHIER ALNIFOLIA 'REGENT'	SASKATOON SERVICEBERRY	#5		8' X 8'
AMFR	24	AMORPHA FRUTICOSA	LEADPLANT	#5		4' X 4'
CADK	28	CARYOPTERIS X CLANDONENSIS 'DARK KNIGHT'	DARK KNIGHT BLUE MIST SPIREA	#5		3' X 3'
ERFN	10	ERICAMERIA NAUSEOSA NAUSEOSA	DWARF BLUE RABBITBRUSH	#5		3' X 3'
FAPA	13	FALLUGIA PARADOXA	APACHE PLUME	#5		4' X 4'
FONE	13	FORESTIERA NEOMEXICANA	NEW MEXICO PRIVET	#5		8' X 6'
PEAT	27	PEROVSKIA ATRIPLICIFOLIA	RUSSIAN SAGE	#5		4' X 4'
PHOP	21	PHYSOCARPUS OPULIFOLIUS 'MONLO'	DIABLO NINEBARK	#5		9' X 5'
PBPB	15	PRUNUS BESSEYI 'PAWNEE BUTTES'	PAWNEE BUTTES SAND CHERRY	#5		1.5' X 5'
RAGL	42	RHUS AROMATICA 'GRO-LOW'	GRO LOW SUMAC	#5		2' X 5'
SYPR	18	SYRINGA X PRESTONIAE 'ROYALTY'	ROYALTY PRESTON LILAC	#5		9' X 7'
EVERGREEN SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	CONT		
ARCO	23	ARCTOSTAPHYLOS X COLORADENSIS	CHEIFFIAN MANZANITA	#5		1.5' X 7'
EPEQ	18	EPHEDRA EQUISETINA	BLUESTEM JOINT FIR	#5		4' X 7'
JJBC	36	JUNIPERUS HORIZONTALIS 'BLUE CHIP'	BLUE CHIP JUNIPER	#5		1' X 6'
JSCC	30	JUNIPERUS SABINA 'CALGARY CARPET'	CALGARY CARPET JUNIPER	#5		1' X 5'
ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	CONT		
PEAH	18	PENNISETUM ALOPECUROIDES 'HAAMELN'	HAAMELN DWARF FOUNTAIN GRASS	#1		2' X 2'
SCST	11	SCHIZACHYRIUM SCOPARIUM 'STANDING OVATION'	STANDING OVATION LITTLE BLUESTEM	#1		3' X 2'
PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	CONT		
ACSS	34	AGASTACHE CAN 'SONORAN SUNSET'	SONORAN SUNSET HYSOPP	#1		1.5' X 1.5'
CAIN	22	CALLIRHOE INVOLUCRATA	PURPLE POPPY MALLOW	#1		1' X 2'
ECPU	11	ECHINACEA PURPUREA	CONEFLOWER	#1		3' X 2'
GROUND COVERS	QTY	BOTANICAL NAME	COMMON NAME	CONT @		
	1,586 SF	NATURE'S PRAIRIE SOD	SOD	SOD		

GENERAL NOTES:

- VERIFY ALL EXISTING CONDITIONS PRIOR TO BEGINNING WORK. BE AWARE OF ANY UNDERGROUND UTILITIES. PROTECT ALL EXISTING SITE FEATURES TO REMAIN FROM POTENTIAL DAMAGE BY SITE CONSTRUCTION OPERATIONS. AVOID ANY WORK BEYOND SCOPE OF PROJECT AREA.
- COMPLETE THE PROJECT IN THE TIME FRAME GIVEN AND WITHIN BUDGET. ALL ACCESS TO SITE, USE OF UTILITIES, STORAGE, AND OTHER REQUIREMENTS SHALL BE COORDINATED PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE TO INSPECT AND CONFIRM SITE CONDITIONS PRIOR TO BEGINNING WORK. COMMENCEMENT OF WORK SHALL SIGNIFY ALL CONDITIONS ARE ACCEPTABLE AND NO ALLOWANCE WILL BE MADE FOR UNRECOGNIZED CONDITIONS AFTER START OF WORK.
- NOTIFY OWNER/LANDSCAPE ARCHITECT IMMEDIATELY UPON DISCOVERY OF UNFORESEEN SITE CONDITIONS OR PLAN DISCREPANCIES. NO CHANGE TO SPECIFIED WORK SHALL BE COMPLETED WITHOUT VERIFICATION OF EXISTING CONDITIONS AND WRITTEN APPROVAL OF MODIFICATION BY THE LANDSCAPE ARCHITECT.

CLEARING & GRADING:

- ALL CONSTRUCTION MUST BE IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL CODES AND DEVELOPMENT STANDARDS; UNIFORM BUILDING CODES; PERMIT CONDITIONS; AND ALL OTHER APPLICABLE CODES, ORDINANCES, STANDARDS, AND POLICIES.
- A COPY OF THE APPROVED PLANS MUST BE ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY OTHER RELATED OR REQUIRED PERMITS PRIOR TO BEGINNING CONSTRUCTION.
- ALL LOCATIONS OF EXISTING UTILITIES HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD, THEREFORE, BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR (1) TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS AND (2) TO DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.

SOIL SPECIFICATIONS:

- ANY PLANTING AREA THAT DOES NOT MEET THE FOLLOWING SOIL PREPARATION REQUIREMENTS ARE SUBJECT TO REJECTION AT OWNER/OWNERS REPRESENTATIVES DISCRETION.
- LANDSCAPE CONTRACTOR IS REQUIRED TO NOTIFY OWNER/OWNERS REPRESENTATIVE A MINIMUM OF 24 HOURS PRIOR TO BEGINNING SOIL PREP WORK. SOIL PREP NOT INSPECTED BY OWNER/OWNERS REPRESENTATIVE IS SUBJECT TO REJECTION AT ANYTIME PRIOR TO INITIAL ACCEPTANCE.
- LANDSCAPE CONTRACTOR SHALL SUBMIT DELIVERY (TRIP) TICKETS TO OWNER/OWNERS REPRESENTATIVE FOR ALL ORGANIC SOIL AMENDMENTS WITHIN 24 HOURS AFTER DELIVERY.
- IMPORTED TOPSOIL SHALL BE FERTILE, FRIABLE, SANDY LOAM FROM THE 'A' HORIZON AND SHALL BE FREE OF STONES OVER .75" IN DIAMETER, REFUSE, PLANTS OR THEIR ROOTS, STICKS, NOXIOUS WEEDS, SALTS, SOIL STERILANTS, OR OTHER MATERIAL WHICH WOULD BE DETRIMENTAL TO PLANT GROWTH.
- ORGANIC SOIL AMENDMENT SHALL CONSIST OF DRY, WELL-ROTTED, PULVERIZED, AGED MINIMUM ONE YEAR ORGANIC COMPOST CLASS I TYPE SUCH AS AVAILABLE FROM A-1 COMPOST, JENSEN SALES, PULVERIZED HORSE, SHEEP OR DAIRY COW MANURE **NOT ACCEPTABLE**. SUBMIT DATED RECENT MATERIAL ANALYSIS TO OWNER/OWNERS REPRESENTATIVE TO GUARANTEE PRODUCT CONDITION AND PROOF NO LIVE WEED SEEDS AND CHEMICAL ADDITIVES ARE PRESENT.
- SOIL PREPARATION FOR AREAS TO BE SODDED SHALL INCLUDE TOPSOIL AND ORGANIC MATTER ADDED AT A RATE OF FIVE CUBIC YARDS PER ONE THOUSAND SQUARE FEET AND TILLED EIGHT (8) INCHES INTO THE SOIL.
- PREPARED BACKFILL FOR TREE/SHRUB PLANTING SHALL BE A MIX OF 2/3 IMPORTED/ SALVAGED TOPSOIL AND 1/3 ORGANIC SOIL AMENDMENT. WHERE TREES AND SHRUBS ARE LOCATED IN LARGE BEDS PROVIDE SOIL AMENDMENT AT A RATE OF FIVE CUBIC YARDS PER ONE THOUSAND SQUARE FEET AND TILL EIGHT INCHES INTO THE SOIL THROUGHOUT THE ENTIRE PLANTING BED, NOT JUST IN EXCAVATED PLANTING HOLES.

PLANTING NOTES:

- LANDSCAPE CONTRACTOR SHALL LOCATE ALL TREES, SHRUBS AND PLANTING BEDS ACCORDING TO LOCATIONS SHOWN ON DRAWINGS. ALL PLANTING LOCATIONS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO THE START OF PLANTING OPERATIONS. LANDSCAPE CONTRACTOR SHALL MAKE MODIFICATIONS IN LOCATIONS AS DIRECTED BY LANDSCAPE ARCHITECT.
- THE PLANT SCHEDULE IS FOR CONTRACTOR'S CONVENIENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING EXISTING CONDITIONS AND REPORTING IN WRITING TO THE LANDSCAPE ARCHITECT ANY CONFLICTS RELATIVE TO IMPLEMENTATION OF THE LANDSCAPE CONSTRUCTION DOCUMENTS. VALERIAN LLC SHALL NOT ASSUME ANY ERRORS OR OMISSIONS IN THE PLANT SCHEDULE LISTED HEREIN. THE PLANT SYMBOLS SHOWN ON THE LANDSCAPE PLAN SHALL PREVAIL SHOULD THERE BE ANY DISCREPANCIES IN QUANTITIES BETWEEN THE PLAN AND PLANT SCHEDULE.
- LANDSCAPE CONTRACTOR SHALL PROVIDE PLANT PROTECTION AND MAINTENANCE THROUGHOUT INSTALLATION AND UNTIL FINAL ACCEPTANCE OF LANDSCAPE INSTALLATION AS FOLLOWS:
 - ALL PLANT MATERIAL SHALL BE PROTECTED, FROM TIME OF DIGGING TO TIME OF FINAL ACCEPTANCE, FROM INJURY, EXCESSIVE DRYING FROM WINDS, IMPROPER VENTILATION, OVER-WATERING, FREEZING, HIGH TEMPERATURES, OR ANY OTHER CONDITION DAMAGING TO PLANTS.
 - PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY IF POSSIBLE. ALL PLANTS NOT PLANTED ON THE DAY OF DELIVERY SHALL BE PLACED IN A TEMPORARY NURSERY AND KEPT MOIST, SHADED, AND PROTECTED FROM THE SUN AND WIND. EACH ROOTBALL SHALL BE COVERED ENTIRELY WITH MULCH. ALL PLANT MATERIALS SHALL BE INSTALLED PER THE PLAN DRAWINGS AND SPECIFICATIONS.
 - LANDSCAPE CONTRACTOR SHALL PROVIDE PLANT MATERIALS THAT COMPLY WITH THE REQUIREMENTS OF THE MOST RECENT ANSI Z 60.1 "STANDARDS FOR NURSERY STOCK" UNLESS OTHERWISE SPECIFIED. CALIPER OF B&B TREES SHALL BE TAKEN 6 INCHES ABOVE THE GROUND UP TO AND INCLUDING 4 INCH CALIPER SIZE, AND 12 INCHES ABOVE THE GROUND FOR LARGER SIZES.
 - PLANTING MAINTENANCE SHALL INCLUDE WATERING, WEEDING, CULTIVATING, RESETTING PLANTS TO PROPER GRADES OR POSITION, REESTABLISHING SETTLED GRADES. HERBICIDE IS NOT RECOMMENDED FOR ONE YEAR FOLLOWING LANDSCAPE INSTALLATION.
 - PLANT MAINTENANCE SHALL INCLUDE THOSE OPERATIONS NECESSARY TO PROPER GROWTH AND SURVIVAL OF ALL PLANT MATERIALS. CONTRACTOR SHALL PROVIDE THIS WORK IN ADDITION TO SPECIFIC WARRANTY/GUARANTEES.
- CONTRACTOR SHALL VERIFY AND MAINTAIN ALL SETBACKS, CLEAR ZONES AND SIGHT TRIANGLES REQUIRED BY ALL LOCAL AND MUNICIPAL CODES WHERE APPLICABLE.
- LANDSCAPE CONTRACTOR SHALL ENSURE THAT THE LANDSCAPE INSTALLATION IS COORDINATED WITH THE PLANS PREPARED BY OTHER CONSULTANTS SO THAT THE PROPOSED GRADING, STORM DRAINAGE OR OTHER PROPOSED CONSTRUCTION DOES NOT CONFLICT WITH NOR PRECLUDE INSTALLATION AND MAINTENANCE OF LANDSCAPE ELEMENTS AS DESIGNATED ON THIS PLAN.
- ALL LANDSCAPE AREAS SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. THE SYSTEM SHALL BE PROPERLY ZONED TO SEPARATE PLANT MATERIAL BY WATER REQUIREMENT. ALL SHRUB BEDS AND TREES IN NATIVE SEED AREAS SHALL BE IRRIGATED BY USING LOW WATER/D RIP TECHNIQUES. ALL TURF AREAS SHALL BE IRRIGATED USING POP-UP SPRAY OR ROTOR APPLICATION.

EDGING:

- ALL LANDSCAPE EDGING TO BE 1/8"X4" 14 GAUGE GALVANIZED STEEL AS PER THE TOWN OF PARKER CONSTRUCTION SPECIFICATIONS AND DESIGN CONSIDERATIONS FOR PARKS, TRAILS, AND STREETS CAPES.

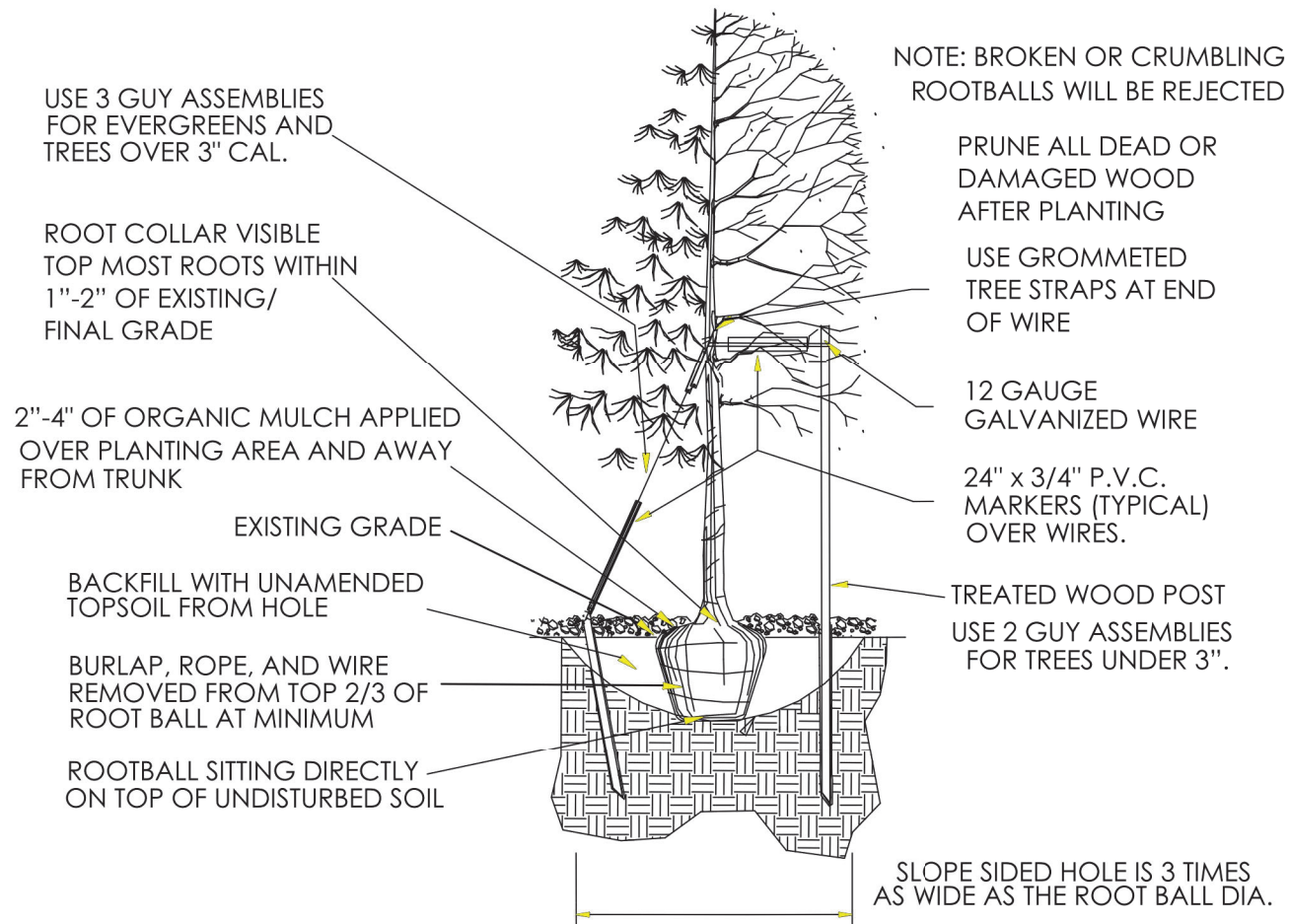
MULCH:

- PLANTING BEDS (AS SPECIFIED) SHALL CONTAIN 2"-6" COBBLE ROCK MULCH AT A MINIMUM DEPTH OF 3" WITH A DOUBLE SHREDDED CEDAR MULCH RING AROUND EACH TREE, SHRUB, GRASS, AND PERENNIAL. WOOD MULCH RING SHALL BE 1.5X THE CONTAINER SIZE OF THE SHRUB, GRASS OR PERENNIAL. DEPRESS MULCH 2" BELOW SURROUNDING CURBS AND WALKS, PLACE WITH TIGHT JOINTS. TREE MULCH RING SHALL BE GREEN INDUSTRY STANDARD SIZE.
- GEOTEXTILE FABRIC (FILTER FABRIC) UNDERLAYMENT SHALL BE MIRAFI, MIRASCAPE, DUPONT TYPAR 3301 OR APPROVED EQUAL (SUBMIT SAMPLE).

NATIVE SEED:

- PREPARE NATIVE SEED AREAS BY INCORPORATING ORGANIC COMPOST AT A RATE OF THREE (3) CUBIC YARDS COMPOST AMENDMENT PER 1000 S.F.. RIP AMENDMENTS AND AMENDMENTS TO A MINIMUM DEPTH OF EIGHT (8) INCHES.
- FINE GRADE SEED AREAS TO ELIMINATE IRREGULARITIES ON THE SURFACE. ROLL OR PERFORM ADDITIONAL FINE GRADING. SEED AREAS BY MEANS OF APPROVED BROADCAST OR HYDRAULIC-TYPE SPREADERS. DO NOT SEED DURING WINDY WEATHER. MULCH SEEDED AREAS WITH GOOD CELLULOSE FIBER MULCH WITHIN 24 HOURS OF SEEDING. APPLY MULCH TACKIFIER AT RATE RECOMMENDED BY MANUFACTURER'S RECOMMENDATIONS.
- NATIVE SEED MIX TO BE 'PBSI NATIVE PRAIRIE MIX' AS SUPPLIED BY PAWNEE BUTTES SEED INC. OR APPROVED EQUAL. SEEDING RATE: 10 LBS/ACRE.
 - SEED MIX TO BE AS FOLLOWS: BLUE GRAMA, BUFFALOGRASS, SIDEOTS GRAMA, WESTERN WHEATGRASS, GREEN NEEDLEGRASS, SAND DROPSEED.

TOWN OF PARKER PLANTING STANDARDS

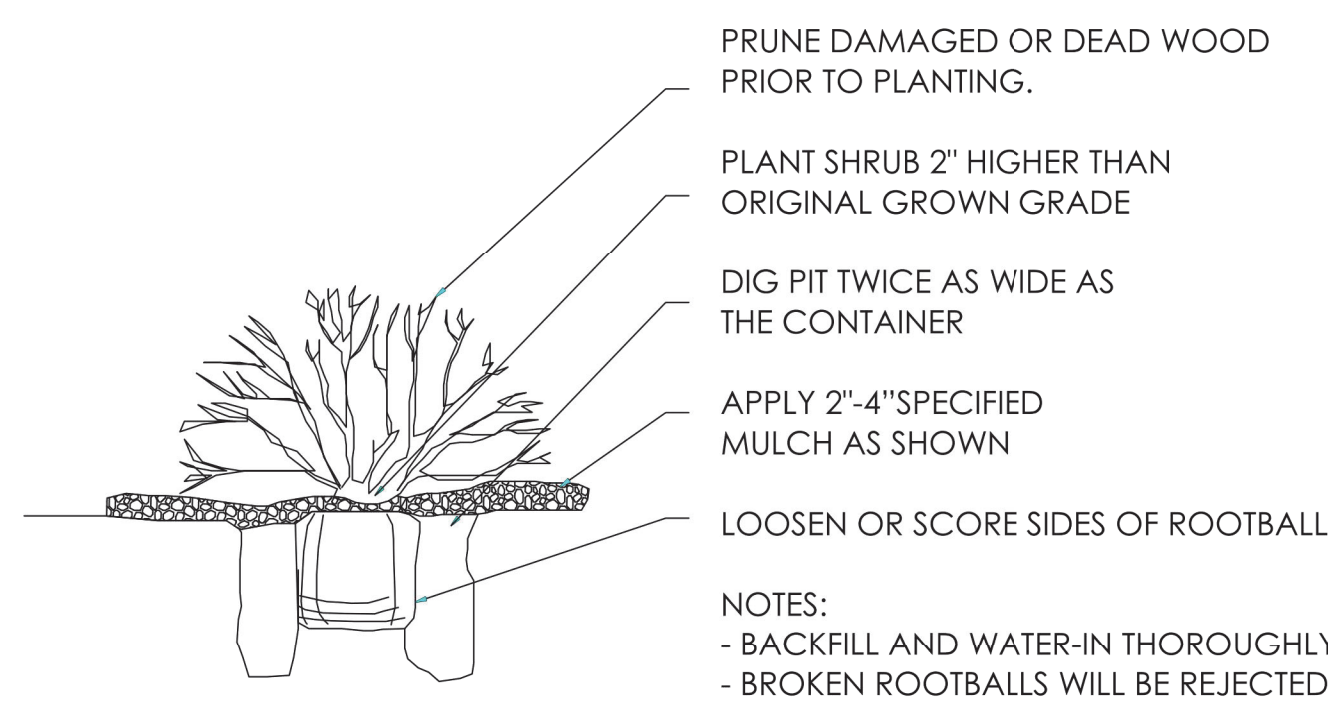


- Excavate planting holes with sloping sides. Make excavations at least three times as wide as the root ball diameter and no deeper than the distance from the top most roots in the root ball to the bottom of the root ball to allow for settling. Do not disturb soil at bottom of planting holes, but do score the sides of the planting hole. The planting area shall be loosened and aerated at least three times the diameter of the root ball. Backfill shall consist of existing on site topsoil - no amendments shall be used unless otherwise specified.
- Trees shall be planted with the root collar/flare visible above grade AND two or more structural roots located within the top 1" to 2" of the root ball/finished grade measured 3" to 4" from trunk. This includes trees that are set on slopes (see slope planting detail). Trees that do not have a visible root collar shall be rejected. Do not cover the root ball with soil.
- When root ball will remain intact, cut off bottom 1/4 of wire basket before placing tree in hole, cut off remainder of basket AFTER tree is set in hole, remove basket completely. At a minimum, the top 2/3 of the burlap and basket shall be removed from the root ball on all trees. Remove all nylon ties, twine, rope and burlap. Remove unnecessary packing material.
- Form soil into a 3" to 5" tall watering ring (saucer) around planting area. This is not necessary in irrigated turf areas. Apply 2" to 4" depth of specified mulch over planting area and inside saucers, away from trunk.
- Staking and guying of trees is optional in most planting situations. In areas of extreme winds, or on steep slopes, staking may be required to stabilize trees. Staking and guying must be removed within 1 year of planting date.
- Tree wrap is *not* to be used on any new plantings, except in late fall planting situations, and only then after consultation with the Town Arborist.
- Resetting of improperly planted trees will only be allowed if it is determined that doing so will in no way compromise the root ball, and shall only be done with approval of the Town Arborist.

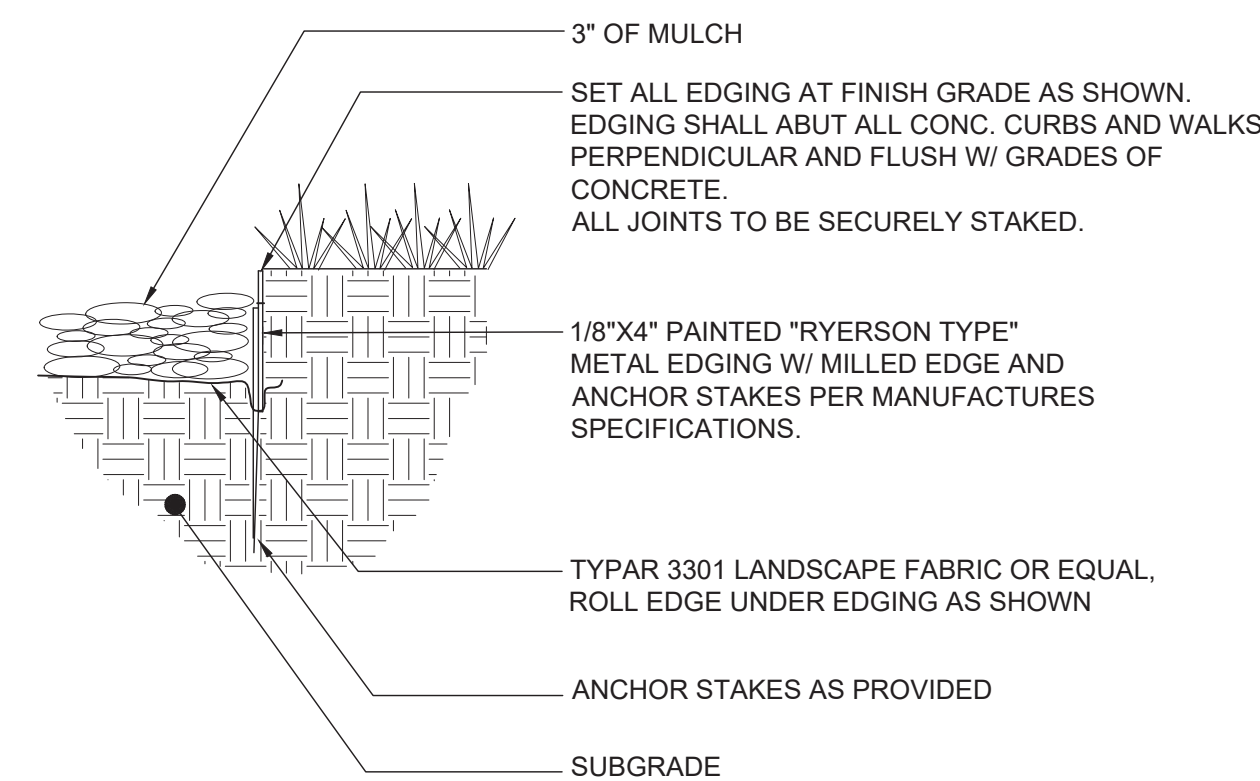
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TOWN OF PARKER PLANTING STANDARDS

TOWN OF PARKER PLANTING DETAIL - SHRUBS



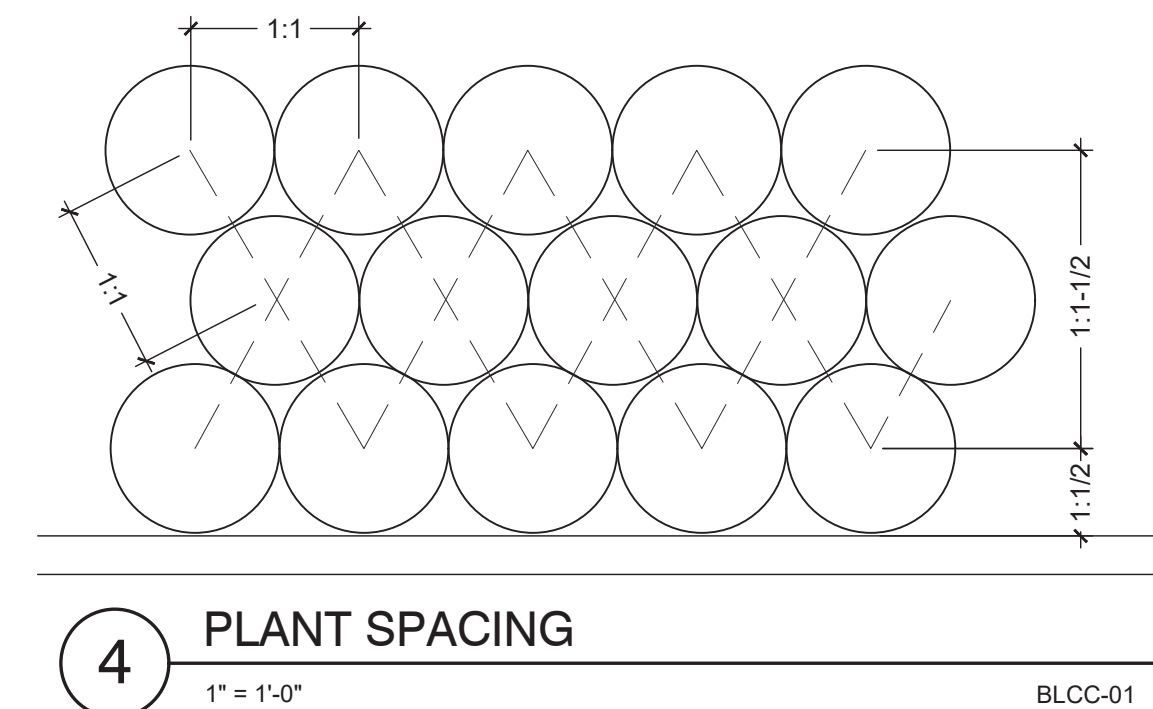
13



STEEL EDGING

1" = 1'-0"

BLCC-02



PRELIMINARY
NOT FOR
CONSTRUCTION



1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

SITE PLAN
2293 - KUM AND GO - PARKER, CO
NEC OF BAYOU GULCH RD AND PINERY PKWY
LANDSCAPE NOTES AND DETAILS

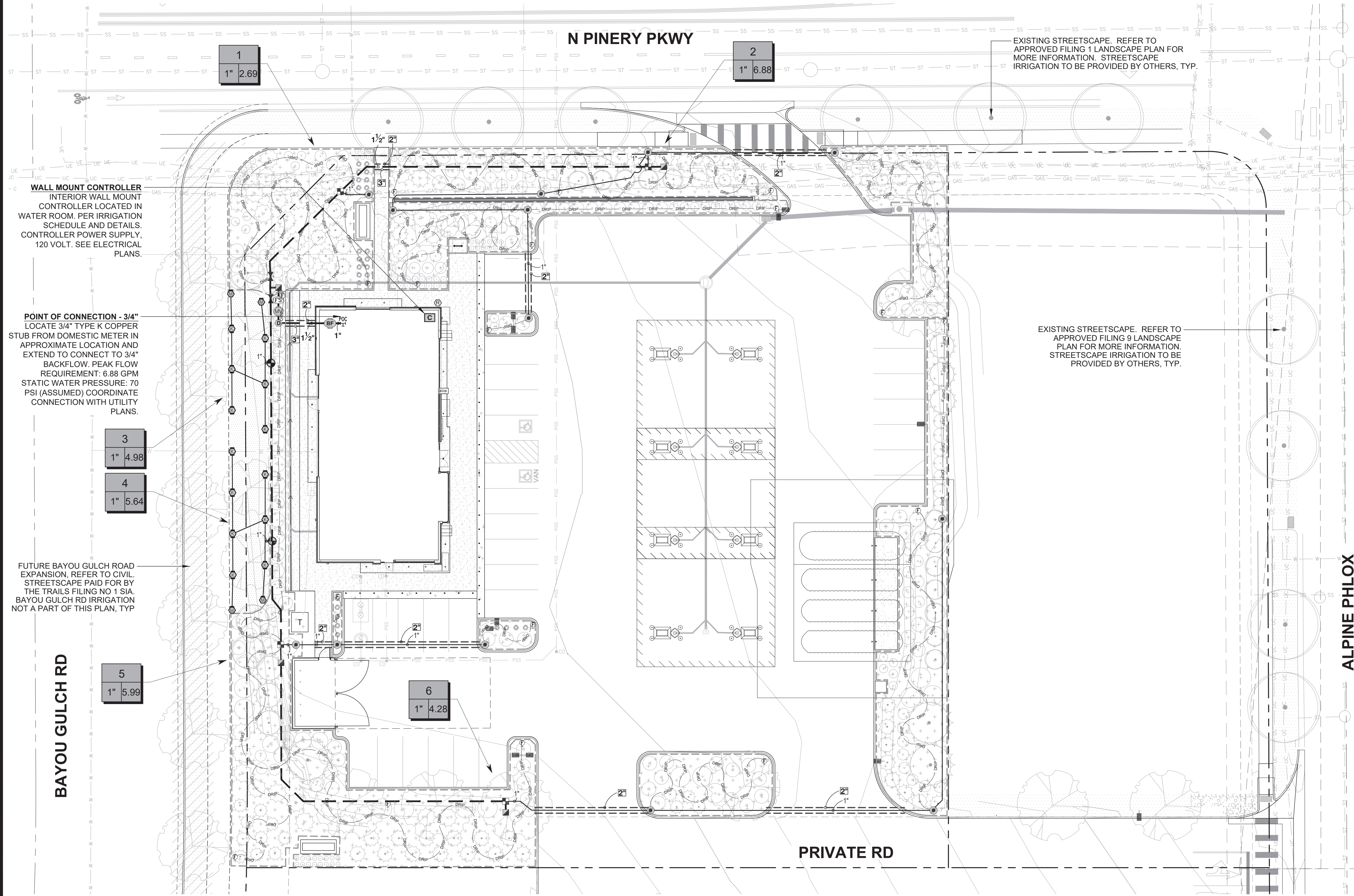
KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

REVISION DESCRIPTION	DATE	PER COMMENTS	PER COMMENTS
1	3/16/23		
2	7/13/23		

DATE: 09-23-2022

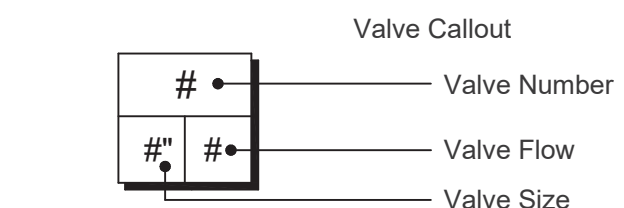
SHEET NUMBER:
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9 OF 19

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1 KUM & GO #2293 GAS & C-STORE SITE PLAN

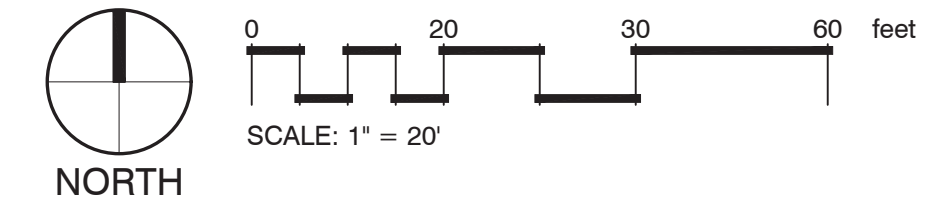


IRRIGATION SCHEDULE:

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
	TURF ROTARY - 1000 HUNTER MP1000 PROS-06-PRS40-CV 6" POP-UP WITH CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. M=MAROON ADJ ARC 90 TO 210, L=LIGHT BLUE 210 TO 270 ARC, O=OLIVE 360 ARC.	4	40	5/U.2
	TURF ROTARY - 2000 HUNTER MP2000 PROS-06-PRS40-CV 6" POP-UP WITH FACTORY INSTALLED CHECK VALVE, PRESSURE REGULATED TO 40 PSI, MP ROTATOR NOZZLE ON PRS40 BODY. K=BLACK ADJ ARC 90-210, G=GREEN ADJ ARC 210-270, R=RED 360 ARC.	13	40	5/U.2
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL	
	DRIP CONTROL VALVE ASSEMBLY RAIN BIRD XCZ-100-PRB-COM - WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. 1" BALL VALVE WITH 1" PESS VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3 GPM-20 GPM	4		
	PIPE TRANSITION POINT PIPE TRANSITION FROM PVC LATERAL TO DRIP TUBING WITH RISER IN 6" DRIP BOX.	13	1/U.2	
	FLUSH VALVE 3/4" PVC BALL VALVE IN 10" VALVE BOX.	18	2/U.2	
	AREA TO RECEIVE DRIP EMITTERS AREA FOR DRIP EMITTERS RAIN BIRD XB-PC SINGLE OUTLET, PRESSURE COMPENSATING DRIP EMITTERS. FLOW RATES OF 0.5GPH=BLUE, 1.0GPH=BLACK, AND 2.0GPH=RED. COMES WITH A SELF-PIERCING BARB INLET X BARB OUTLET. Emitter Notes: 0.5 GPH emitters (2 assigned to each #1 plant) 1.0 GPH emitters (2 assigned to each #5 plant) 2.0 GPH emitters (6 assigned to each B & B, 2" Cal plant) 2.0 GPH emitters (6 assigned to each B & B, 6" HT plant) 2.0 GPH emitters (6 assigned to each B & B, 2.5" Cal plant)	17,078 S.F.	3/U.2	
	DRIP TUBING: 3/4" POLYETHYLENE TUBING.	1,701 LF		
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY		
	CONTROL VALVE HUNTER ICV-G PLASTIC ELECTRIC REMOTE CONTROL VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET.	2		
	QUICK COUPLER VALVE RAIN BIRD 44-RC 1" BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, THERMOPLASTIC RUBBER COVER, AND 2-PIECE BODY.	4		
	GATE VALVE - 2-1/2" AND SMALLER MATCO-NORCA 514T BRASS GATE VALVE, FULL PORT, WITH SOLID WEDGE. IPS. WHEEL HANDLE. SAME SIZE AS MAINLINE PIPE.	2		
	MASTER VALVE - NORMALLY CLOSED 1" RAIN BIRD EFB-CP BRASS MASTER VALVE, THAT IS CONTAMINATION PROOF W/SELF-FLUSHING FILTER SCREEN AND FD-101 TURF DECODER. GLOBE CONFIGURATION, RECLAIMED WATER COMPATIBLE.	1		
	MANUAL DRAIN VALVE MUELLER ORISEAL #H-10283, WITH BRASS SWING JOINT ASSEMBLY. INSTALL PER INSTALLATION DETAIL.	1		
	BACKFLOW PREVENTER - INDOOR 3/4" FEBCO 860 REDUCED PRESSURE BACKFLOW PREVENTER	1		
	CONTROLLER RAIN BIRD ESP4ME3 WITH (2) ESP-SM3 - 10 STATION, HYBRID MODULAR CONTROLLER.	1		
	RAIN/FREEZE SENSOR RAIN BIRD WR2-RFC - WIRELESS RAIN AND FREEZE SENSOR COMBO, INCLUDES 1 RECEIVER AND 1 RAIN/FREEZE SENSOR TRANSMITTER.	1		
	FLOW SENSOR - 1" RAINBIRD MJ100B - 1" FLOW SENSOR FOR USE WITH RAIN BIRD ESP-ME.	1		
	POINT OF CONNECTION 3/4"	1		
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21	823.6 L.F.		
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21	458.8 L.F.		
	IRRIGATION MAINLINE: TYPE K COPPER PIPE	4.6 L.F.		
	PIPE SLEEVE: PVC CLASS 160 SDR 26	212.3 L.F.		



1 IRRIGATION PLAN



1459 Grand Ave
Des Moines, IA 50309
P: 888-458-6646

PARKER WATER AND SANITATION DISTRICT
2293 - KUM AND GO - PARKER, CO
NEC OF BAYOU GULCH RD AND PINERY PKWY
IRRIGATION PLAN

KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

DATE	REVISION DESCRIPTION	PER COMMENTS	PER COMMENTS
3/16/23			
7/13/23			

DATE: 09-15-2022

SHEET NUMBER:
IR1
10 OF 19

X:\DORPBOX\VALERIAN\TEAM FOLDER\PROJECTS\22-044 EES\PINERY PKWY K&G#2293\WORKING\2023-07-XX_SUBMITTAL_3RD\22-044_U4_D_IRRIGATION PLAN.DWG

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1 KUM & GO #2293 GAS & C-STORE SITE PLAN

GENERAL NOTES:

- PRIOR TO BEGINNING WORK VERIFY THE CONTRACT DRAWINGS AGAINST ALL APPLICABLE EXISTING CONDITIONS, NOTIFY THE DESIGNER IMMEDIATELY UPON DISCOVERY OF UNFORESEEN SITE CONDITIONS OR PLAN DISCREPANCIES.
- PRE-CONSTRUCTION CONFERENCE IS REQUIRED WITH PUBLIC WORKS PRIOR TO CONSTRUCTION.
- BACKFLOW PREVENTION TESTING IS REQUIRED BY BUILDING DEPARTMENT.
- CONTRACTOR IS RESPONSIBLE TO INSPECT AND CONFIRM SITE CONDITIONS PRIOR TO BEGINNING WORK.
- VERIFY LOCATION OF ALL ABOVE AND BELOW GRADE MECHANICAL, PLUMBING, ELECTRICAL/UTILITY LINES AND EQUIPMENT AND ADHERE TO ALL FEDERAL, MUNICIPAL, UTILITY PURVEYOR REQUIRED EASEMENTS, MINIMUM OFFSETS AND SETBACKS.
- ALL ACCESS TO SITE, USE OF UTILITIES, STORAGE, AND OTHER REQUIREMENTS SHALL BE COORDINATED PRIOR TO BEGINNING WORK.

IRRIGATION NOTES:

- THE CONTRACTOR IS TO INSTALL AN AUTOMATIC IRRIGATION SYSTEM THAT WILL PROVIDE COVERAGE FOR ALL LANDSCAPED AREAS AS SHOWN ON CONTRACT DRAWINGS.
- REFER TO DETAILS FOR INSTALLATION INSTRUCTIONS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL AND MUNICIPAL CODES FOR WORK NECESSARY IN IRRIGATION SYSTEM INSTALLATION.
- POINT OF CONNECTION SHOWN ON THE IRRIGATION PLANS ARE PER THE CIVIL DOCUMENTS. REPORT ANY DISCREPANCIES IN THE LOCATION TO THE DESIGNER FOR CLARIFICATION OR REVISION.
- CONTRACTOR IS TO PROVIDE ALL NECESSARY PIPE, VALVES, ETC. DOWNSTREAM FROM POINT OF CONNECTION NOT INSTALLED BY OTHER DISCIPLINES.
- WORK SHALL BE DONE IN FULL ACCORDANCE WITH THE RULES AND REGULATIONS OF THE 2009 INTERNATIONAL PLUMBING CODE (IPC) AND ALL OTHER STATE OR LOCAL MUNICIPAL REGULATIONS CURRENT UPON THE SIGNING OF THIS CONTRACT.
- CONTRACT DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED IN LANDSCAPED AREAS WHEREVER POSSIBLE AND WITHIN THE PROPERTY LIMITS. ANY EQUIPMENT SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY.
- LATERAL AND MAINLINE PIPE, CONTROL WIRES AND SLEEVES ARE SHOWN ON CONTRACT DRAWINGS SPACED HORIZONTALLY ON PLAN FOR GRAPHIC CLARITY ONLY. CONTRACTOR SHALL CONSOLIDATE IRRIGATION LATERALS, MAINLINES AND COMPONENTS WHEREVER POSSIBLE. IRRIGATION PIPING SHALL BE INSTALLED WITH A MINIMUM OF 4 INCHES CLEAR ON ALL SIDES.
- CONTRACTOR SHALL MAINTAIN THE MINIMUM DEPTHS DETAILED AND SPECIFIED FOR ALL IRRIGATION EQUIPMENT.
- CONTRACTOR IS TO VERIFY AVAILABLE PRESSURE AND FLOW AT POINT OF CONNECTION PRIOR TO INSTALLATION OF IRRIGATION SYSTEM EQUIPMENT.
- CONTRACTOR TO COORDINATE INSTALLATION OF SLEEVING WITH OVERALL SITE CONSTRUCTION AND INSTALLATION OF PAVING AND SIDEWALKS. ALL SLEEVING UNDER PAVED SURFACES SHOWN ON CONTRACT DRAWINGS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. ALL MAINLINES, LATERAL LINES, DRIP LINES AND CONTROL WIRES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. INSTALL SLEEVING AS PER DETAIL, NOTES, SCHEDULES AND SPECIFICATIONS.
- ALL PIPING, PVC ELECTRICAL SLEEVES, ETC. UNDER PAVING SHALL BE INSTALLED PRIOR TO PAVING WORK. NO TEES, ELLS OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING. CAP ALL ENDS HAND TIGHT PRIOR TO BACKFILL.
- EACH MAINLINE SLEEVE REPRESENTED IN THE DRAWINGS SHALL CONSIST OF TWO SLEEVES: ONE FOR MAINLINE PIPING AND ONE FOR FIELD WIRING.
- CONTRACTOR IS TO PROVIDE ELECTRICAL POWER TO THE AUTOMATIC CONTROLLER, SEE ELECTRICAL DRAWINGS.
- INSTALL ALL MATERIALS AND EQUIPMENT AS SHOWN IN DETAILS. USE TEFLON TAPE OR TEFLON PIPE DOPE ON ALL MALE PIPE THREADS ON ALL IRRIGATION SWING JOINT AND VALVE ASSEMBLIES.
- BACKFILLING SHALL BE DONE IN LIFTS AND COMPACTED.
- MAINTENANCE AND OPERATION REQUIREMENTS: A SEASONAL MAINTENANCE SCHEDULE BEGINNING ON APRIL 1 THROUGH OCTOBER 1 SHALL ESTABLISH PROCEDURES FOR OPTIMUM IRRIGATION EFFICIENCY AND PREVENTIVE MAINTENANCE PRACTICES THAT WILL CONSERVE WATER RESOURCES. THE MAINTENANCE SCHEDULE SHOULD INCLUDE THE FOLLOWING ITEMS:
 - VERIFY COVERAGE OF HEADS (BI-MONTHLY)*
 - CHECK FOR BROKEN HEADS OR LEAKAGE (BI-MONTHLY)*
 - REPROGRAM CONTROLLERS ACCORDING TO THE SEASONAL NEEDS (MONTHLY)*
 - VERIFY WATER SUPPLY AND PRESSURE UPON SYSTEM STARTUP, THEN TWO ADDITIONAL TIMES
 - INSPECT THE BACKFLOW PREVENTER DEVICE (UPON SYSTEM STARTUP)
 - VERIFY SENSOR FUNCTIONALITY (BI-MONTHLY)*

*ALL ITEMS SHALL BE PERFORMED UPON SYSTEM START UP AND THEN AT A MINIMUM OF THE PERIOD STATED, INSPECTIONS SHALL BE PERFORMED MORE FREQUENTLY AS REQUIRED.

POINT OF CONNECTION (POC) NOTES:

POC - 3/4" : CONNECT TO 3/4" STUB LOCATED IN THE MECHANICAL ROOM. EXTEND AND CONNECT 3/4" TYPE-K COPPER LINE TO 3/4" BACKFLOW DEVICE. REFER TO CIVIL PLANS FOR CONNECTION LOCATION.

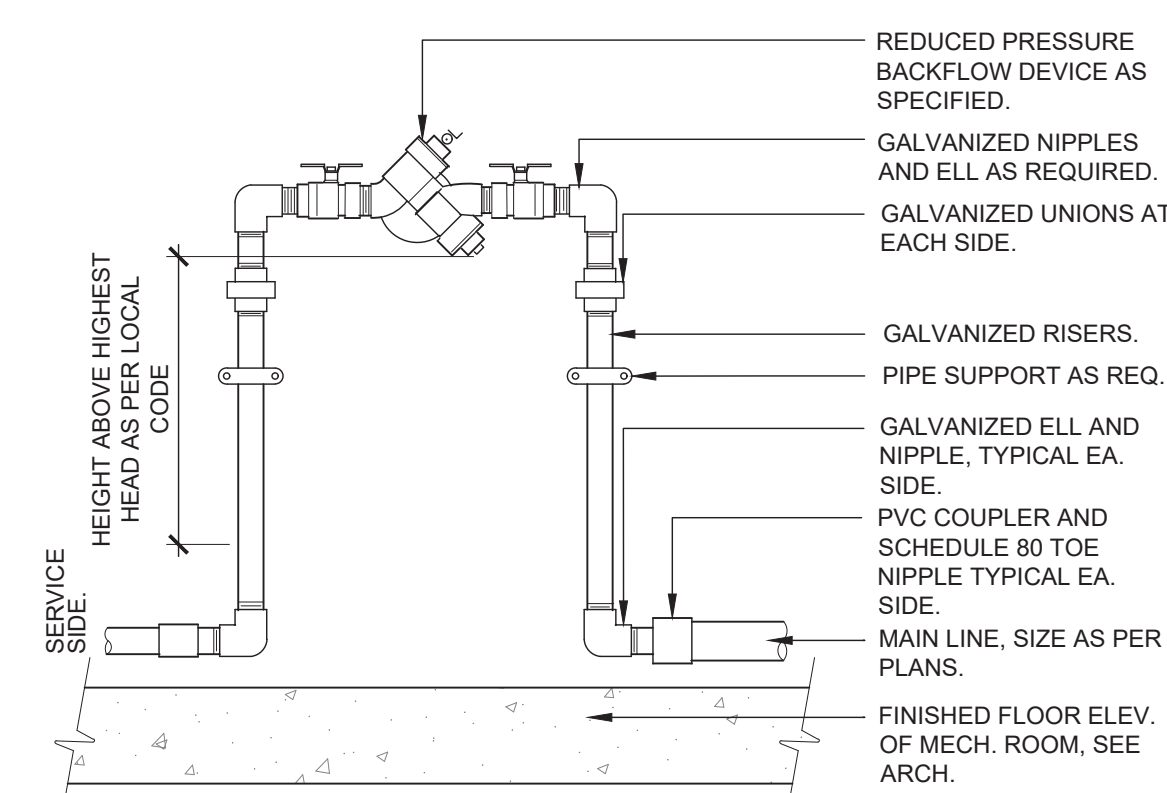
AVAILABLE WATER PRESSURE: THE ASSUMED AVAILABLE PSI AT THE POINT OF CONNECTION IS - **70 PSI**. CONTRACTOR SHALL TEST PRIOR TO INSTALLATION.

DESIGN PRESSURE: **70 PSI** (ASSUMED)

DESIGN FLOW : **6.88 GPM MAX.** (SINGLE VALVE OPERATION)

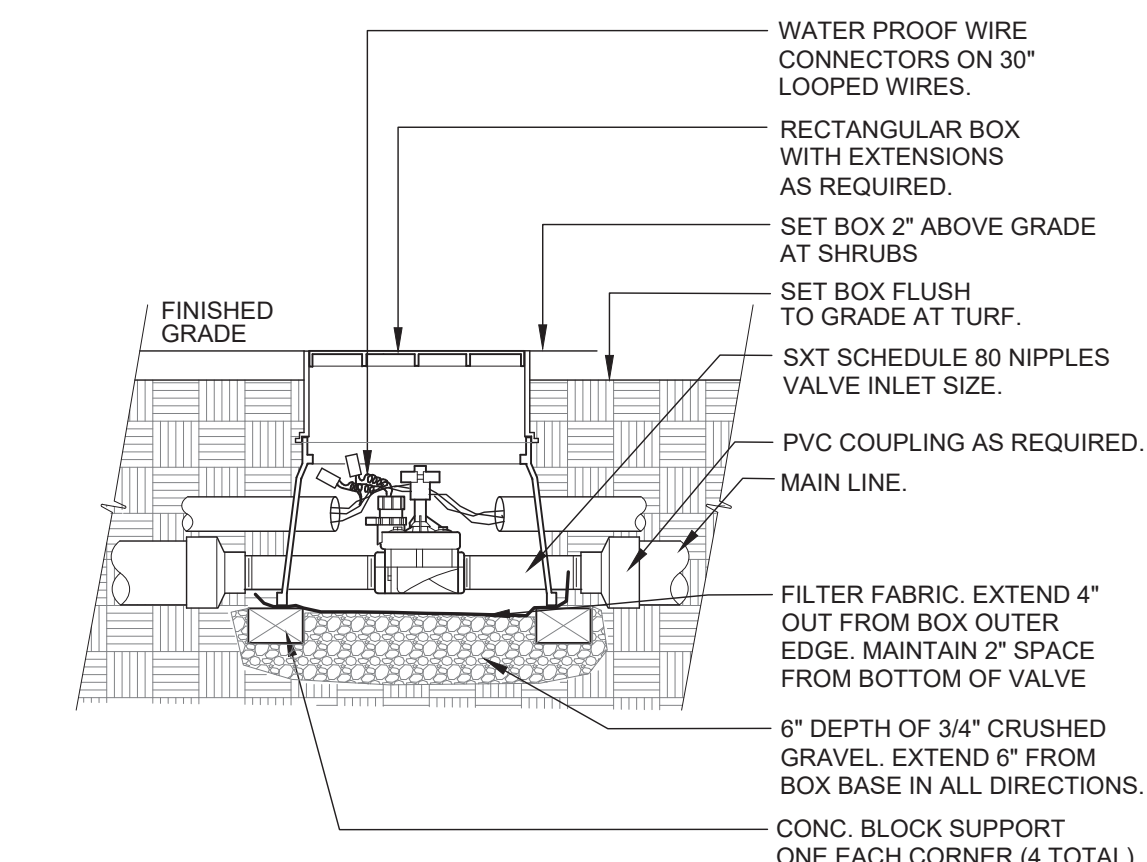
- THE IRRIGATION SYSTEMS ARE DESIGNED WITHIN A WATER WINDOW AND SIZED TO ACCOMMODATE SINGLE VALVE STARTS NOT TO EXCEED DESIGN FLOW LISTED. CONTRACTOR TO PROGRAM CONTROLLER ACCORDINGLY.
- CONTRACTOR TO INSTALL ALL REQUIRED EQUIPMENT IN ACCORDANCE WITH ALL LOCAL WATER PURVEYORS REQUIREMENTS.
- CONTRACTOR TO FIELD LOCATE REQUIRED IRRIGATION EQUIPMENT DOWNSTREAM FROM METER FOR APPROVAL PRIOR TO INSTALLATION. ALL ATTEMPTS SHALL BE MADE TO INSTALL EQUIPMENT IN LANDSCAPE BEDS.
- ALL ENCLOSURES SHALL BE SECURELY MOUNTED AND LOCKABLE TO PREVENT VANDALISM, DAMAGE AND/OR THEFT. TURN KEYS OVER TO OWNERS REPRESENTATIVE AT COMPLETION OF WORK AS PER SPECIFICATIONS.
- CONTRACTOR TO COORDINATE CONTROLLER LOCATIONS WITH OWNERS REPRESENTATIVE PRIOR TO INSTALLATION. INSTALL CONTROLLERS IN COMMON AREA IN LANDSCAPE BED.
- RAIN SENSOR, MOUNT WIRELESS RAIN SENSOR WITHIN OPTIMAL RANGE FROM CONTROLLER, PER MANUFACTURERS RECOMMENDATIONS. INSTALL SENSOR ON LIGHT/UTILITY POLE A MINIMUM OF 10' ABOVE GRADE TO MINIMIZE DAMAGE/VANDALISM. CLEARLY NOTE LOCATION AND PROVIDE INFORMATION TO OWNERS REPRESENTATIVE.
- IRRIGATION ZONES HAVE BEEN CREATED TO PROPERLY HYDROZONE THE SITE BASED ON SITE CONDITIONS AND MICROCLIMATES. IF FIELD ADJUSTMENTS ARE TO BE MADE IRRIGATION EQUIPMENT IRRIGATING A NORTH AND EAST EXPOSURE SHOULD NOT BE INSTALLED ON THE SAME ZONE AS IRRIGATION EQUIPMENT ON THE SOUTH AND WEST EXPOSURES TO ALLOW FOR MICROCLIMATE ADJUSTMENTS IN THE CONTROLLER PROGRAMMING.

NOTES:
ENSURE PRESENCE OF A FLOOR DRAIN IN MECHANICAL ROOM. EXTEND DRAIN PIPE FROM BACKFLOW LOCATION TO DRAIN.

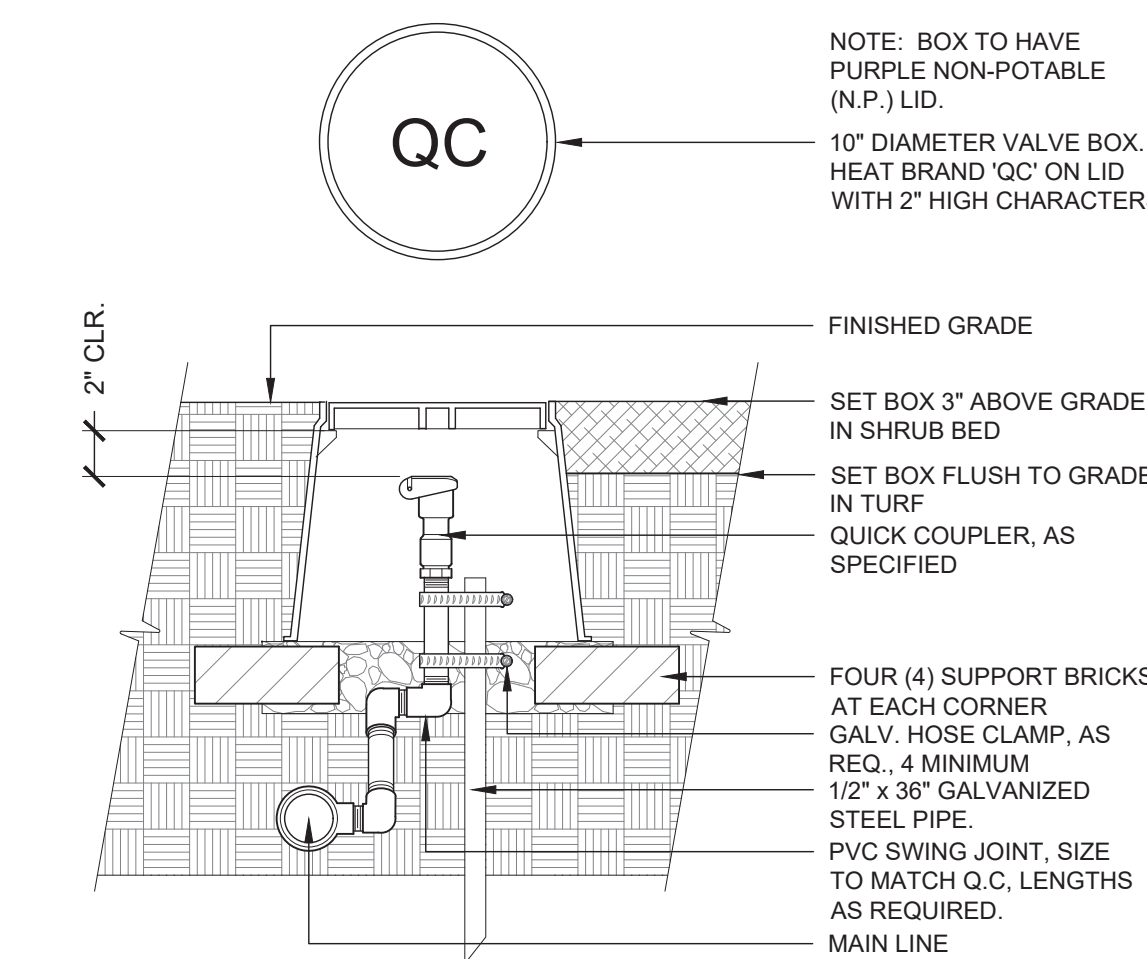


1 RP BACKFLOW DEVICE IN MECH. ROOM
1" = 1'-0" 328409.43-12

NOTE:
1. BRAND (MV) INTO VALVE BOX LID WITH 2" HIGH LETTERS MINIMUM.

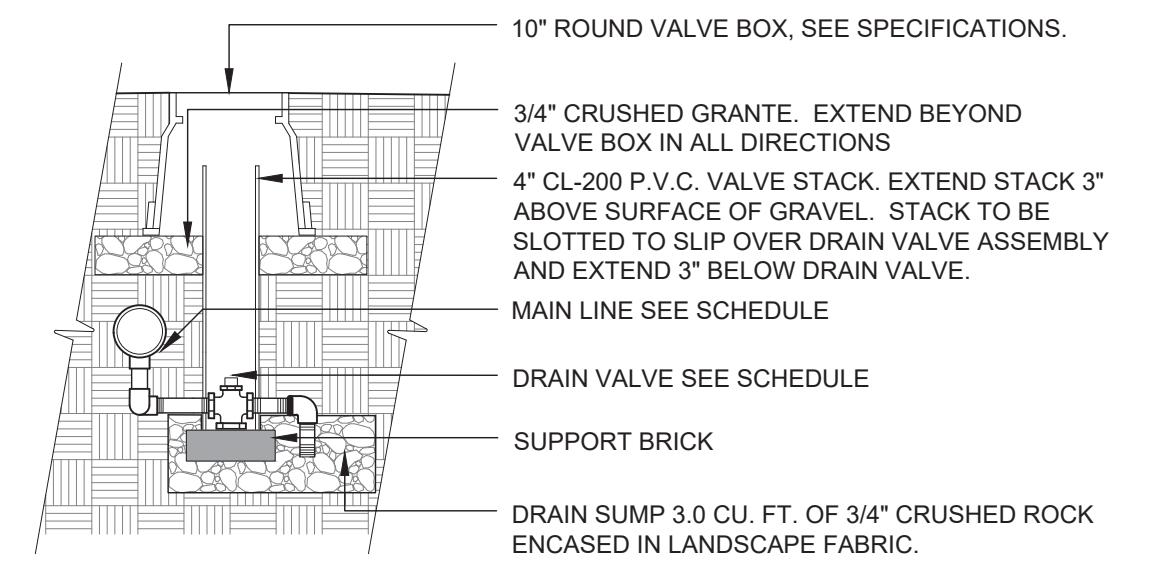


3 MASTER CONTROL VALVE
1 1/2" = 1'-0" 328406.23-11



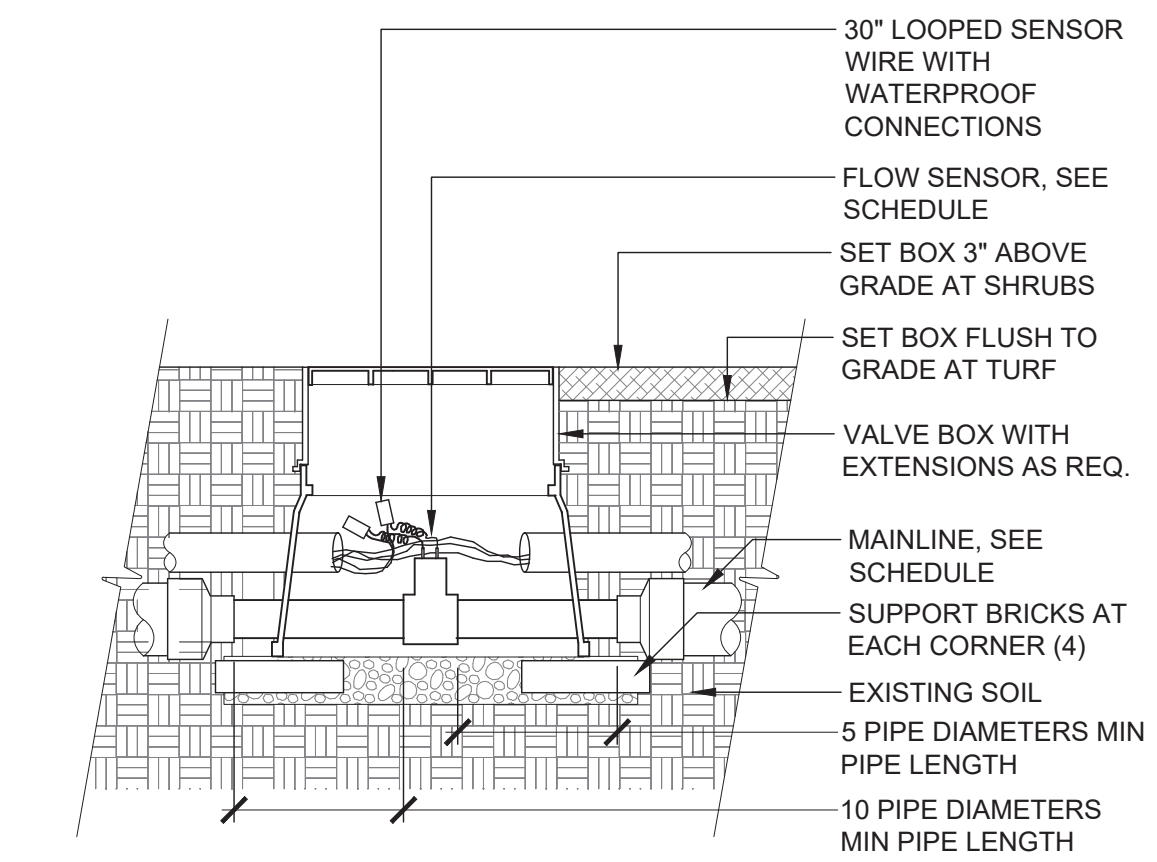
5 QUICK COUPLING VALVE
1 1/2" = 1'-0"

NOTE:
1. BRAND (DV) INTO VALVE BOX LID WITH 2" HIGH LETTERS MIN.
2. EXTEND VERTICAL DISCHARGE NIPPLE INTO DRAIN SUMP A MINIMUM OF 3".
3. SET TOP OF VALVE BOX LID LEVEL WITH FINISHED GRADE OF ADJACENT UNDISTURBED TURF GRASS AREAS.



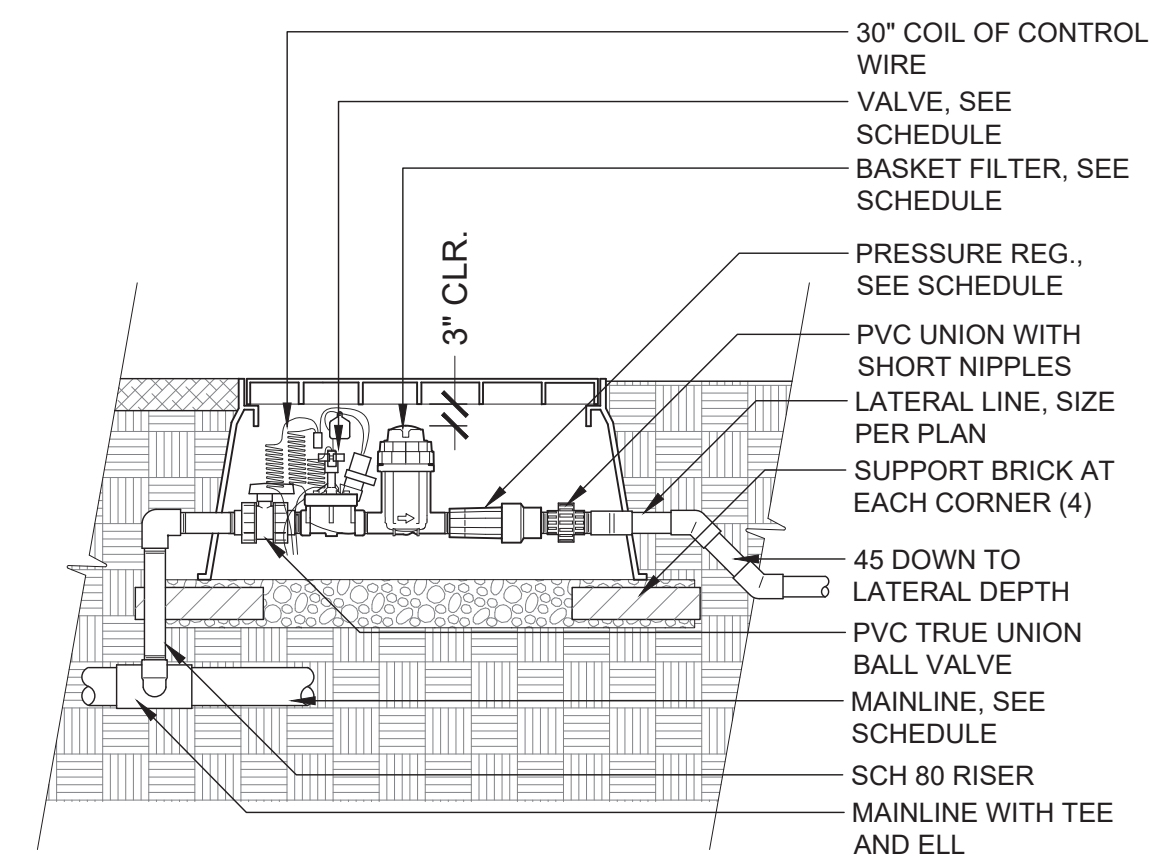
2 MANUAL DRAIN VALVE
1/2" = 1'-0" 328409.86-13

NOTE:
1. HEAT BRAND (FS) ON VALVE BOX LID IN 2" HIGH LETTERS MINIMUM



4 FLOW SENSOR
1" = 1'-0" 328406.63-11

NOTE:
1. HEAT BRAND VALVE AND CONTROLLER NUMBER (EX. A-F) ON LID WITH 2" HIGH LETTERS MINIMUM.



6 1" DRIP VALVE W/ BASKET FILTER
1" = 1'-0" 328413.76-27



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PARKER WATER AND SANITATION DISTRICT
2293 - KUM AND GO - PARKER, CO
 NEC OF BAYOU GULCH RD AND PINERY PKWY
 IRRIGATION DETAILS

KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

REVISION DESCRIPTION	DATE	PER COMMENTS	PER COMMENTS
1	3/16/23		
2	7/13/23		

DATE: 09-15-2022

SHEET NUMBER:
IR2
11 OF 19

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1 KUM & GO #2293 GAS & C-STORE SITE PLAN



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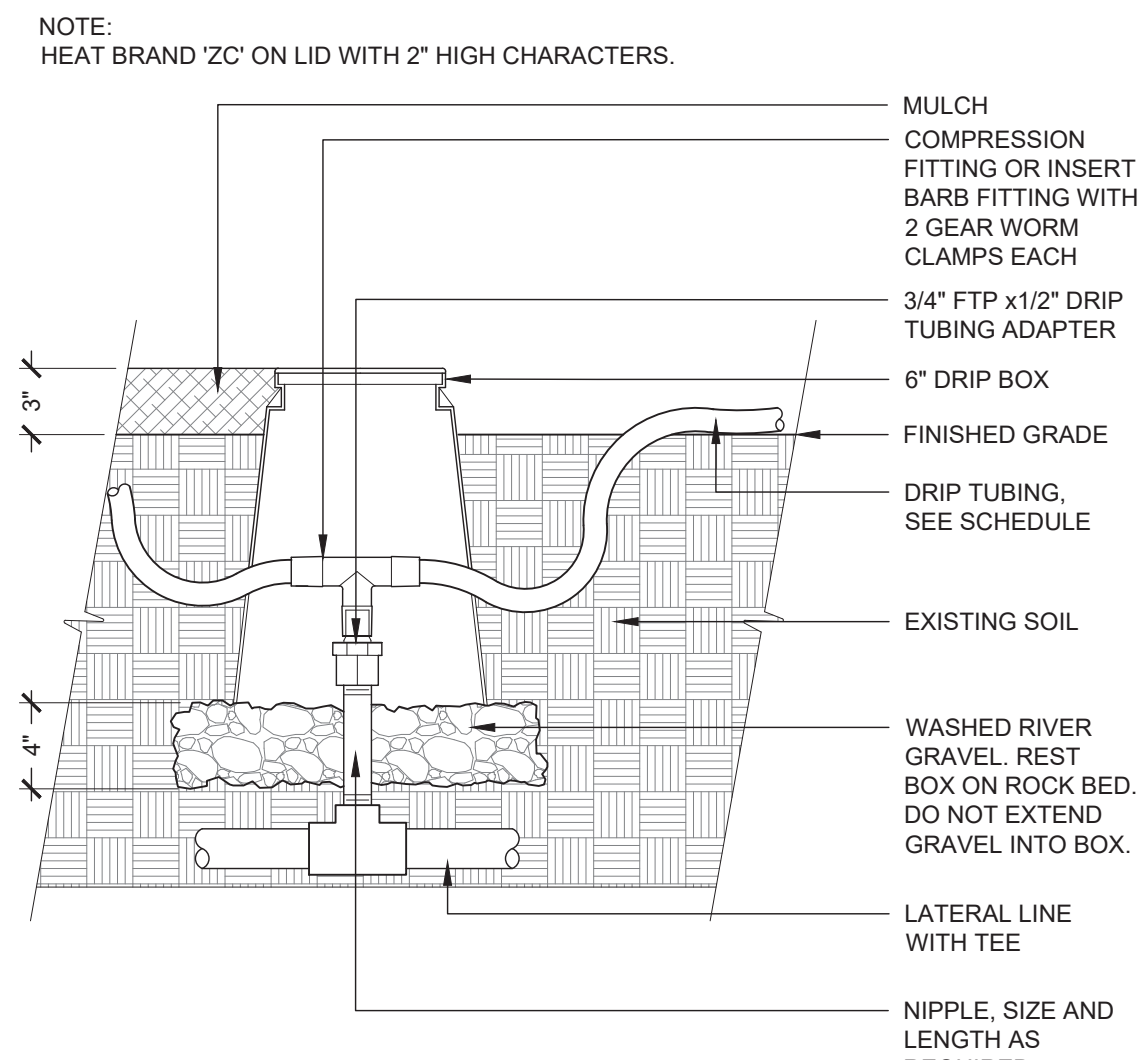
PARKER WATER AND SANITATION DISTRICT
2293 - KUM AND GO - PARKER, CO
NEC OF BAYOU GULCH RD AND PINERY PKWY

KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

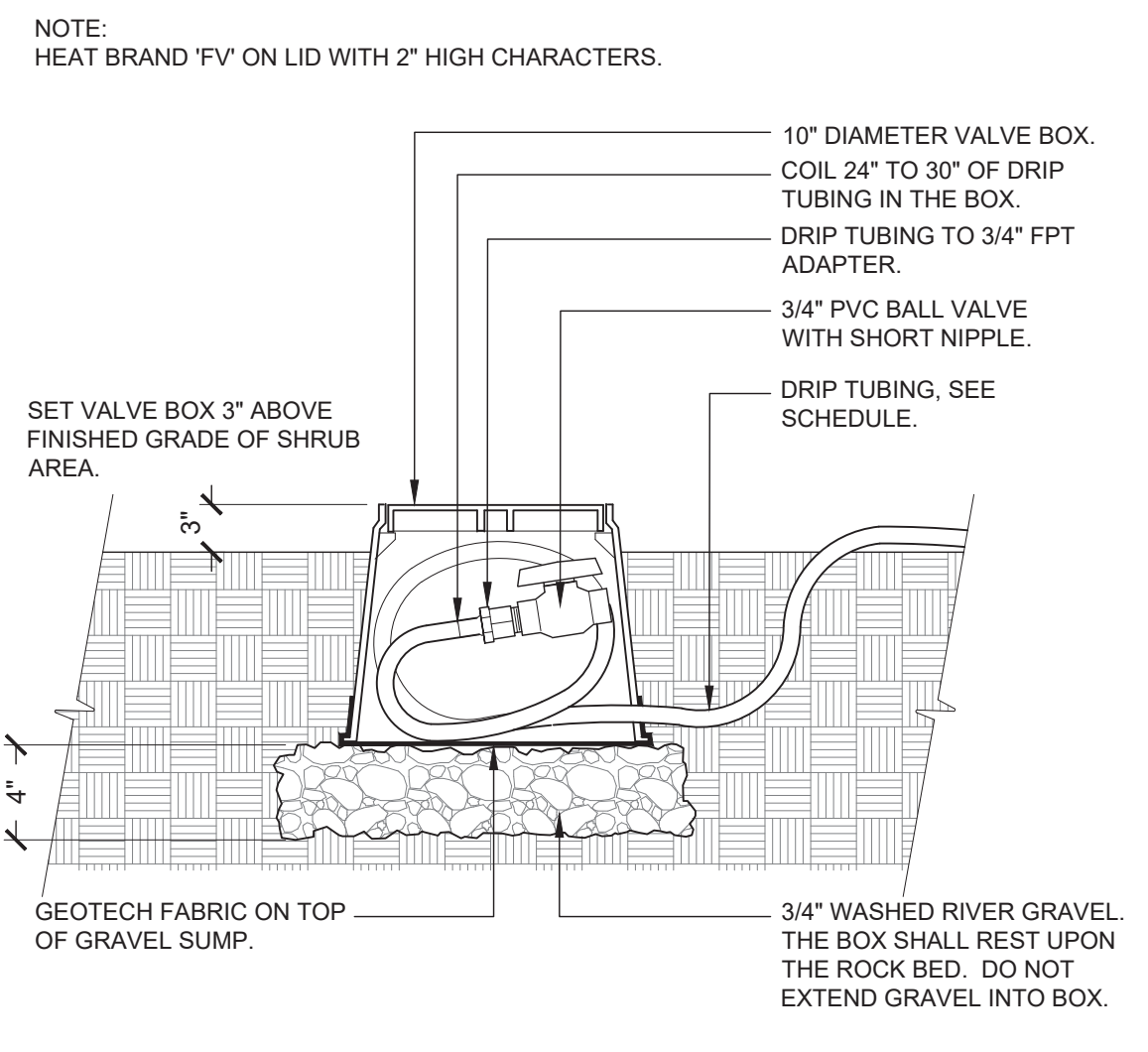
REVISION DESCRIPTION	DATE
PER COMMENTS	3/16/23
PER COMMENTS	7/13/23

DATE: 09-15-2022

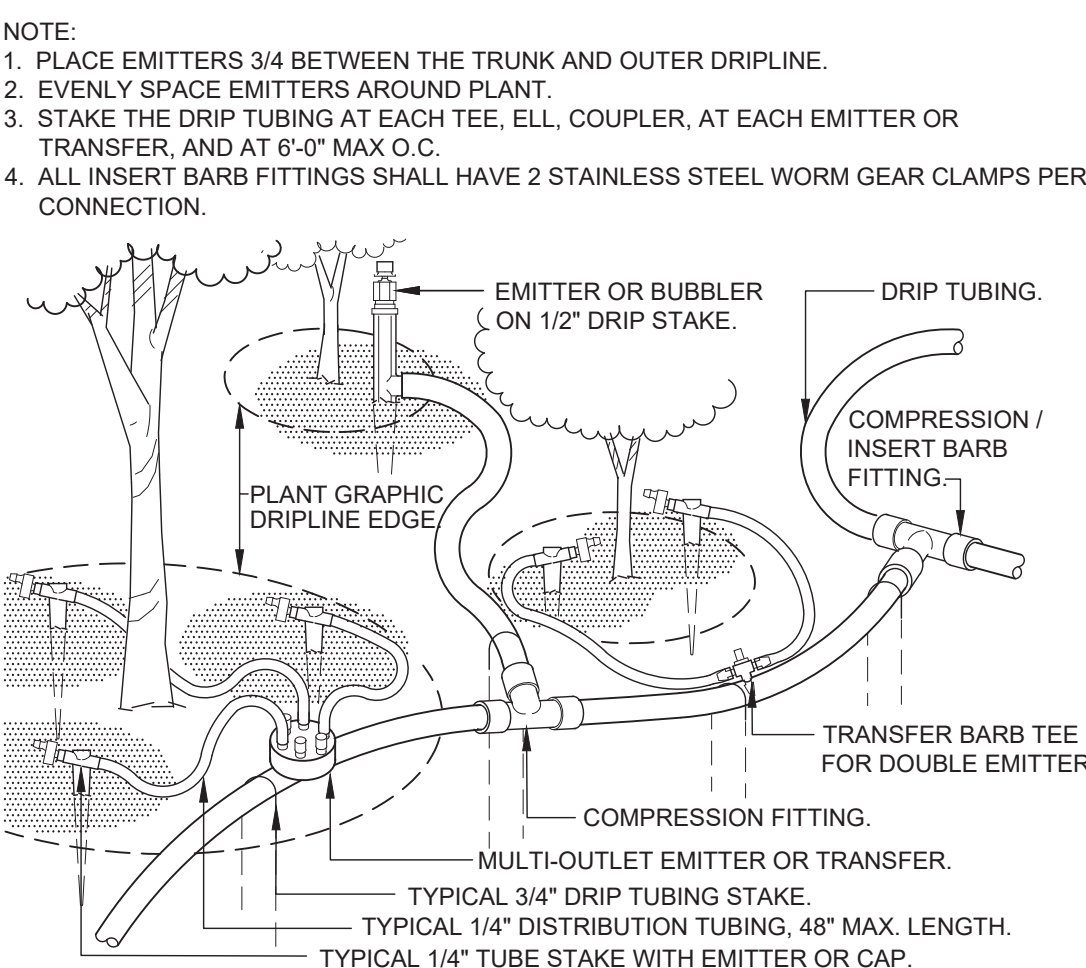
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IR3
12 OF 19



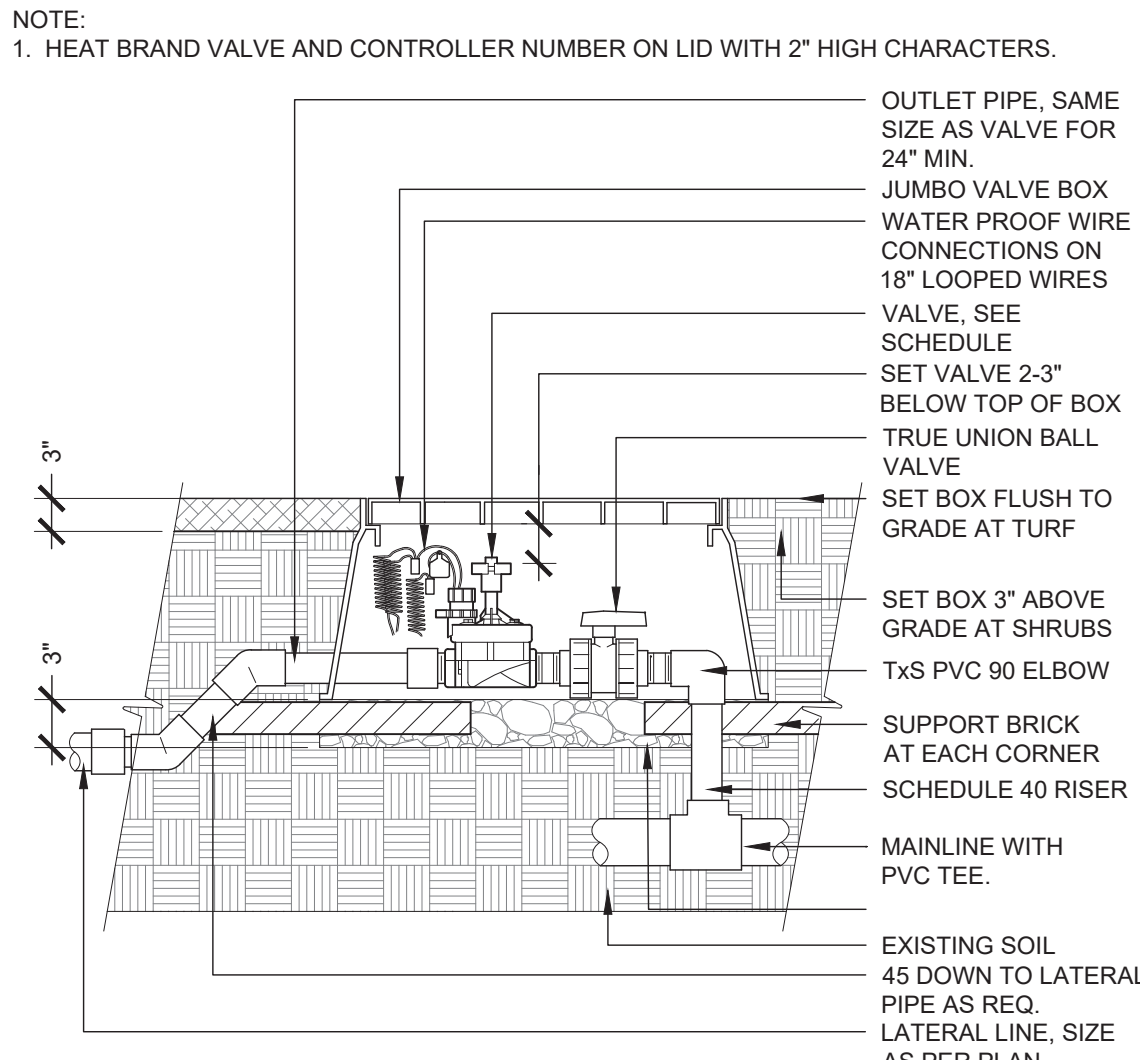
1 DRIPLINE ZONE CONTROL
1 1/2" = 1'-0"
328413.46-13



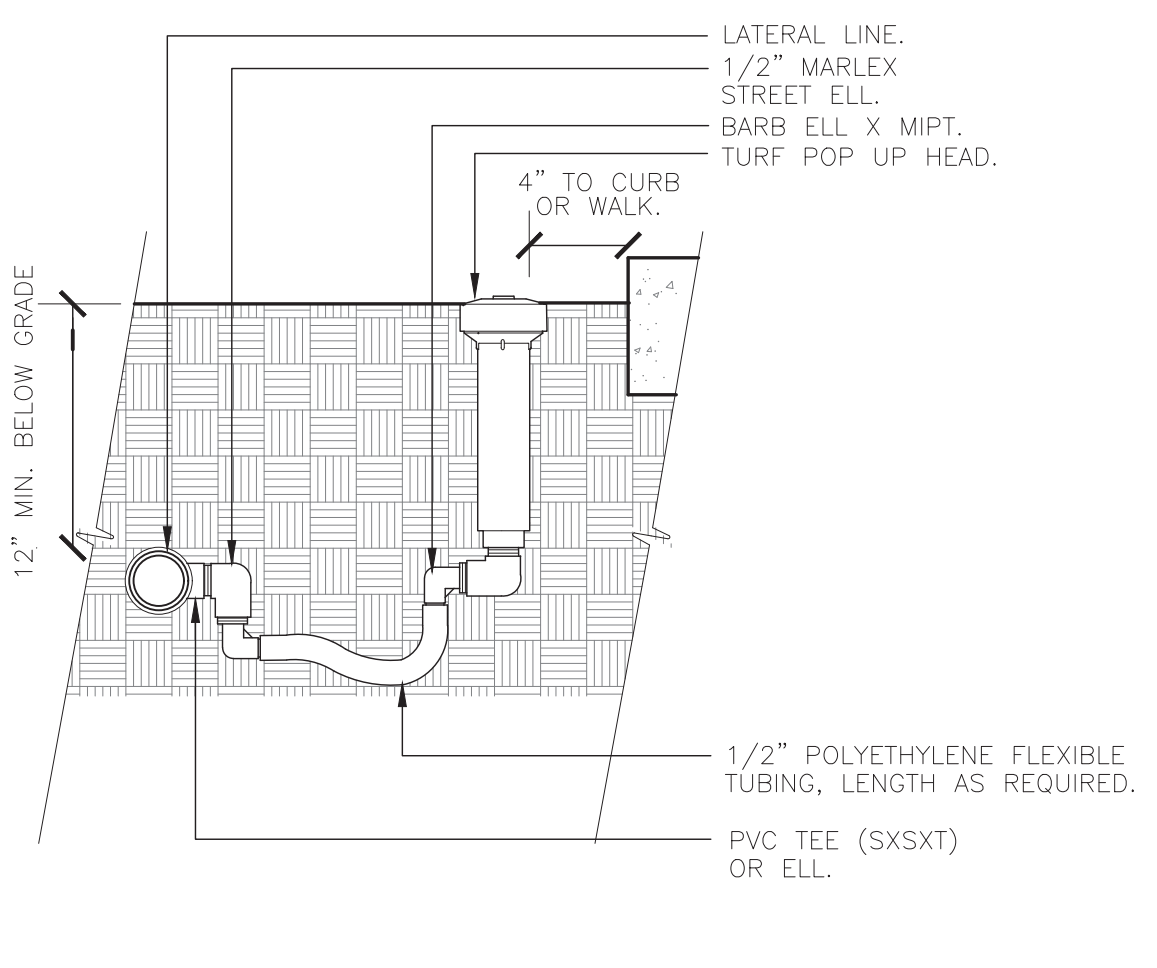
2 DRIP FLUSH VALVE
1 1/2" = 1'-0"
328413.49-98



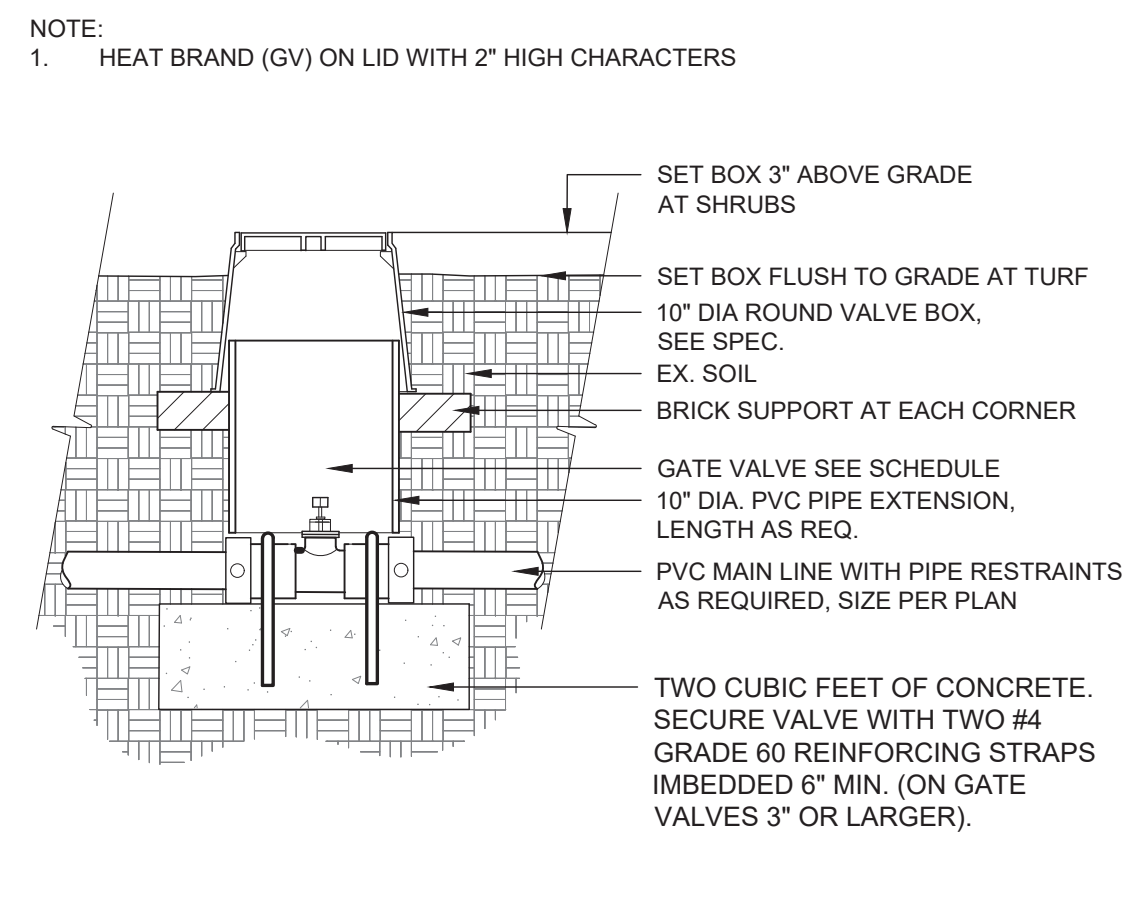
3 TYPICAL DRIP TUBING
1 1/2" = 1'-0"
328413.43-02



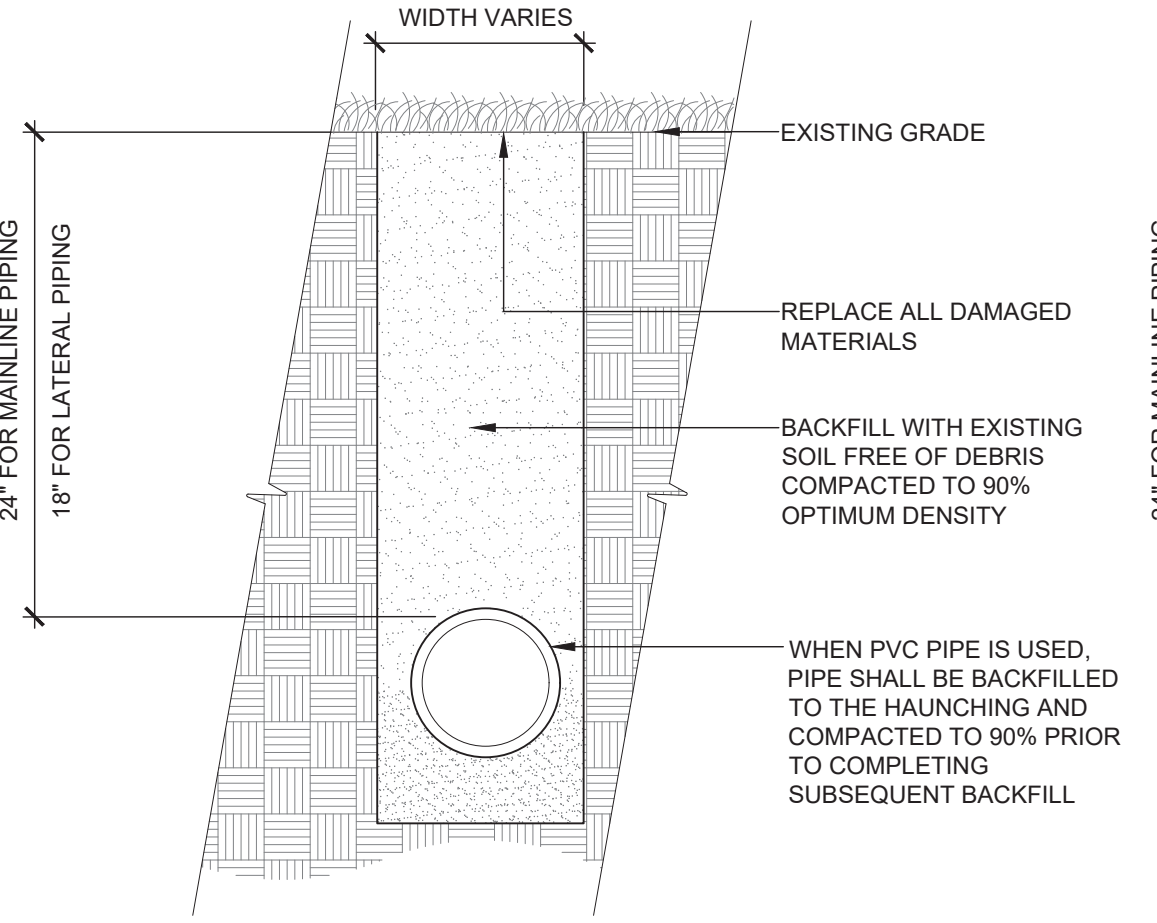
4 REMOTE CONTROL VALVE
1" = 1'-0"
328406.13-08



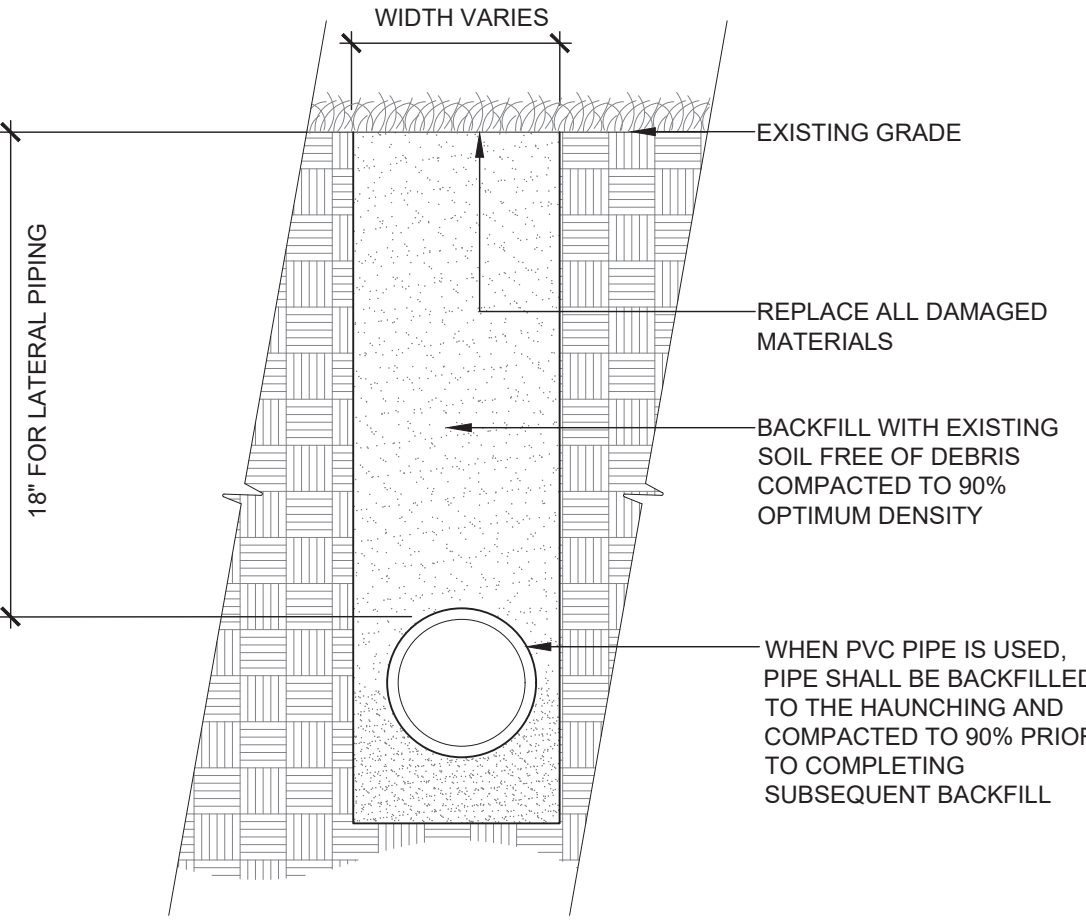
5 TURF SPRAY-FLEX ASSEMBLY
3" = 1'-0"
328403.13-03



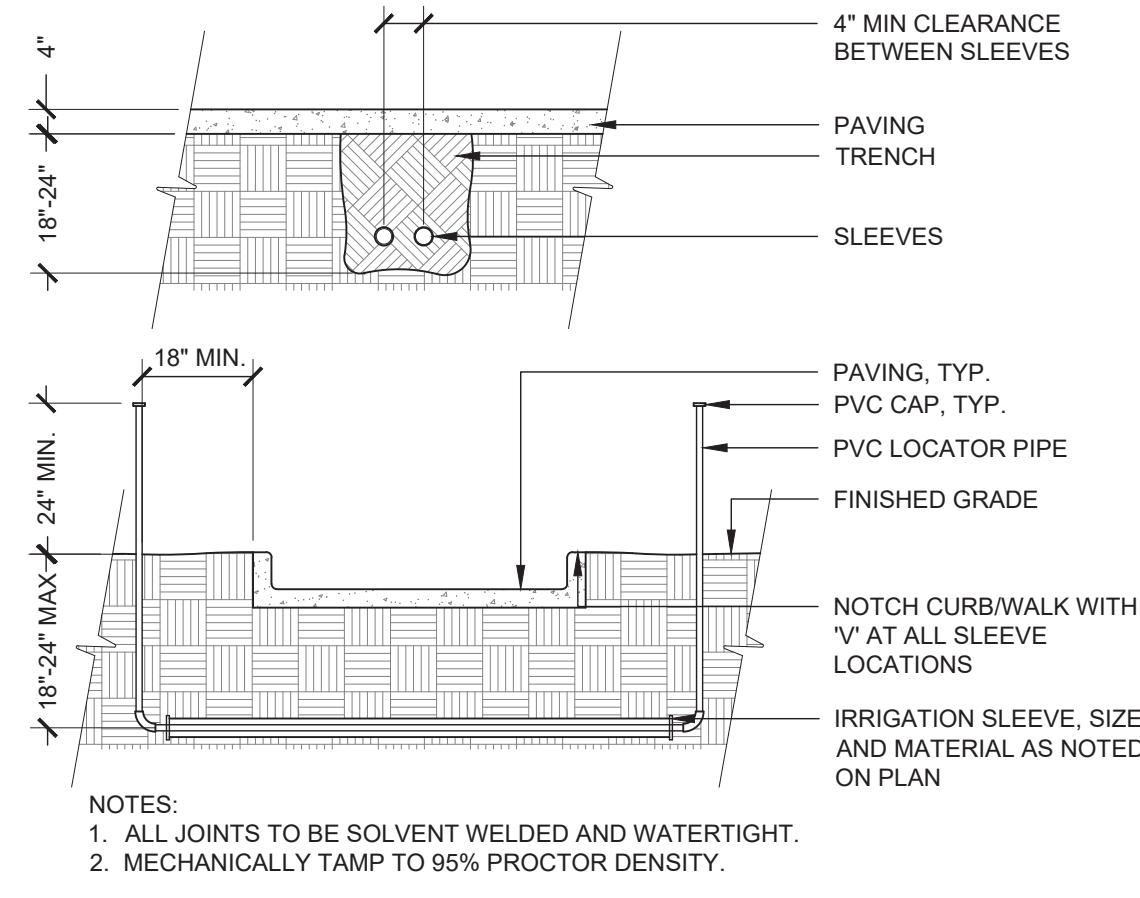
6 GATE VALVE UNDER 3"
1" = 1'-0"
328406.33-90



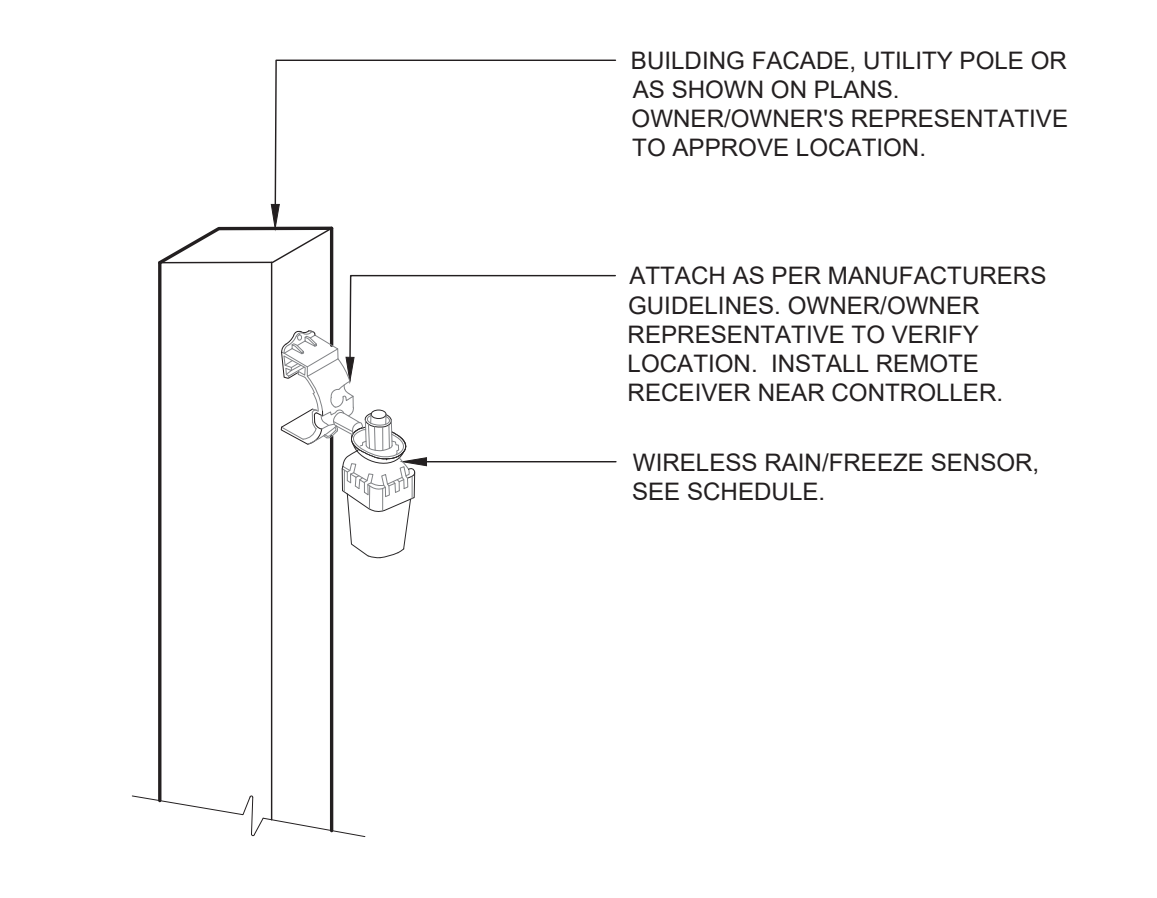
7 TRENCH DETAIL
1 1/2" = 1'-0"
328409.76-103



8 TRENCH DETAIL
1 1/2" = 1'-0"
328409.76-103



9 SLEEVING
3/8" = 1'-0"
328409.66-13



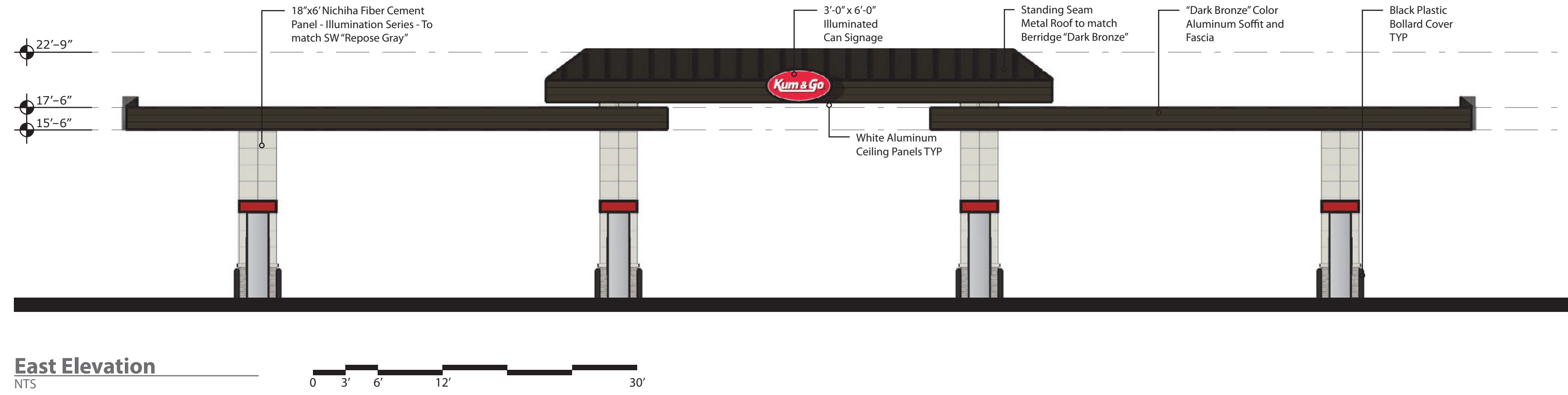
11 WIRELESS RAIN/FREEZE SENSOR
3/4" = 1'-0"
328409.66-13

X:\DROPOBOX (VALERIAN)\VALERIAN TEAM FOLDER\PROJECTS\2293\04_EES_PINERY PKWY\K&G 2293\WORKING\2023-07-XX_SUBMITTAL_3RD\22-044_U4-2_IRRIGATION DETAILS.DWG

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1 KUM & GO #2293 GAS & C-STORE SITE PLAN

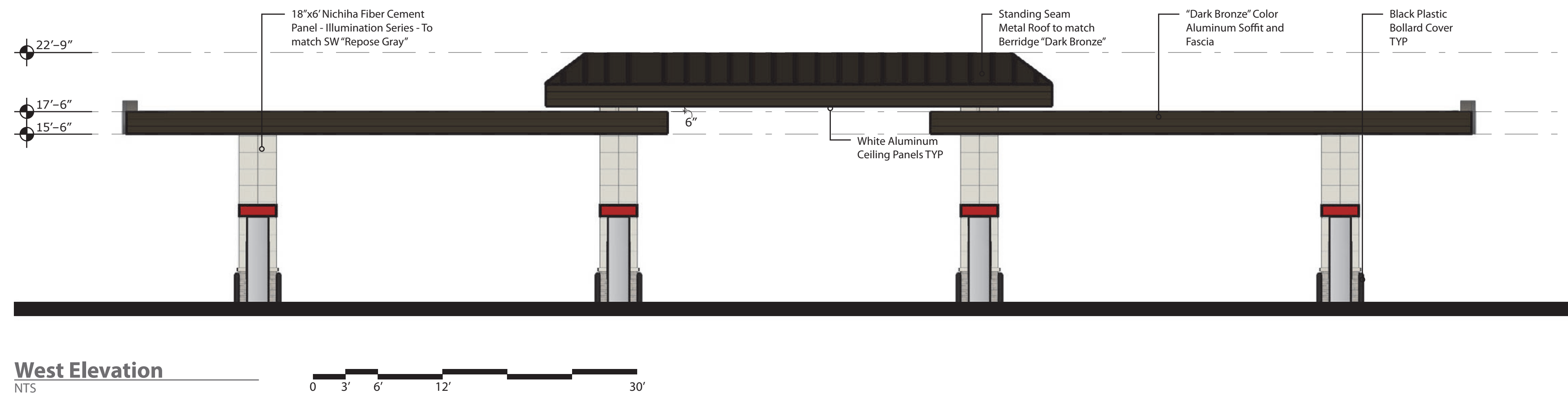
Proposed Canopy Signage

Location	Sign	Size	Area
East Elevation	"Kum & Go" Sign	3' x 6'	18 SF
West Elevation	No Signage	---	0 SF
South Elevation	"Kum & Go" Sign	3' x 6'	18 SF
North Elevation	"Kum & Go" Sign	3' x 6'	18 SF
Total			54 SF



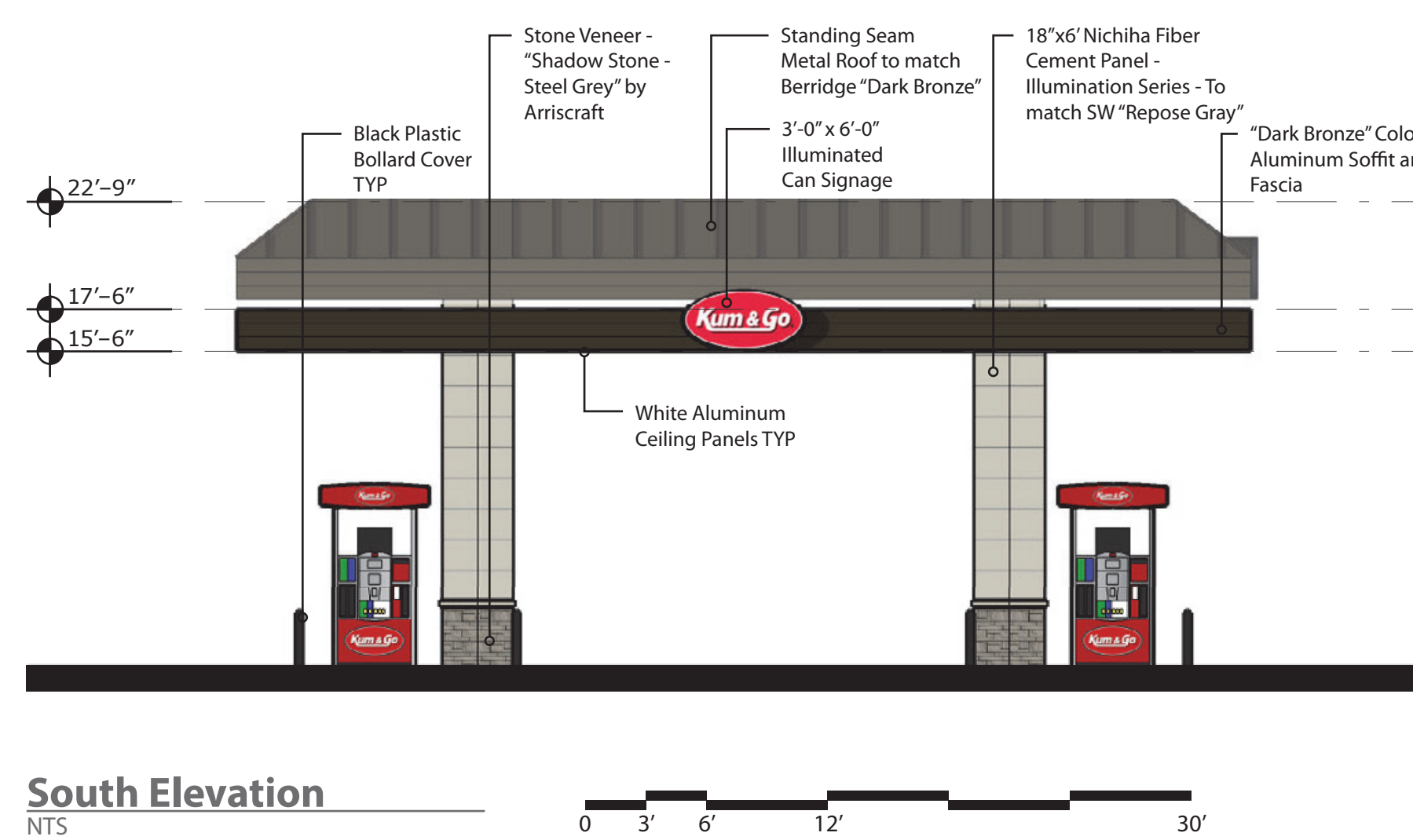
East Elevation

NTS



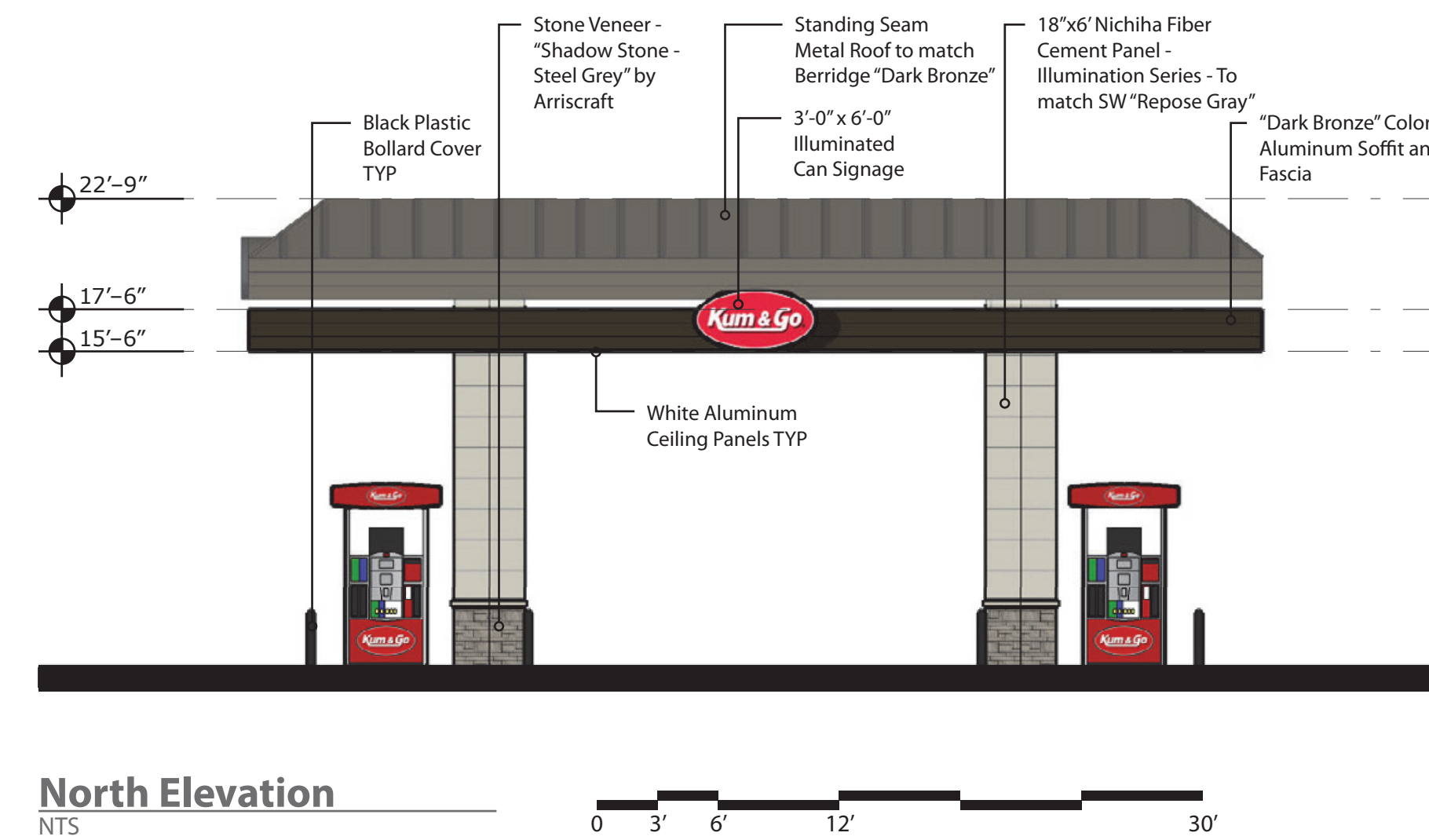
West Elevation

NTS



South Elevation

NTS

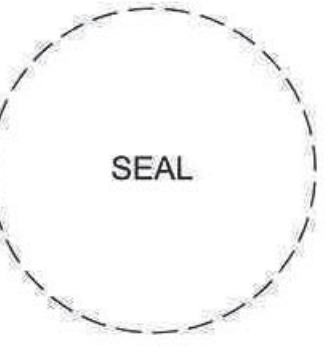


North Elevation

NTS

brr

ARCHITECT OF RECORD:
BRR ARCHITECTURE, INC
813 METCALF AVENUE
SUITE 300
OVERLAND PARK, KS 66204
www.brrarch.com
TEL: 913-262-9055
FAX: 913-262-9044



1459 Grand Avenue
Des Moines, Iowa
50309
P: 515-457-6247

2293 - PARKER, CO
N PINERY PKWY AND BAYOU GULCH RD
CANOPY ELEVATIONS

KG PROJECT TEAM:
RDM:
SDM:
CPM:

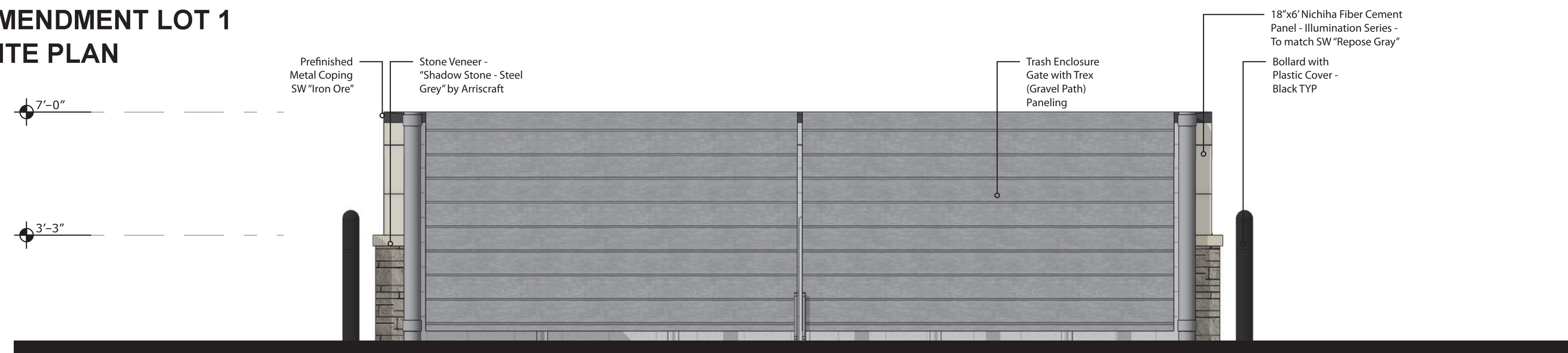
REVISION DESCRIPTION	DATE

DATE: 07/05/2023

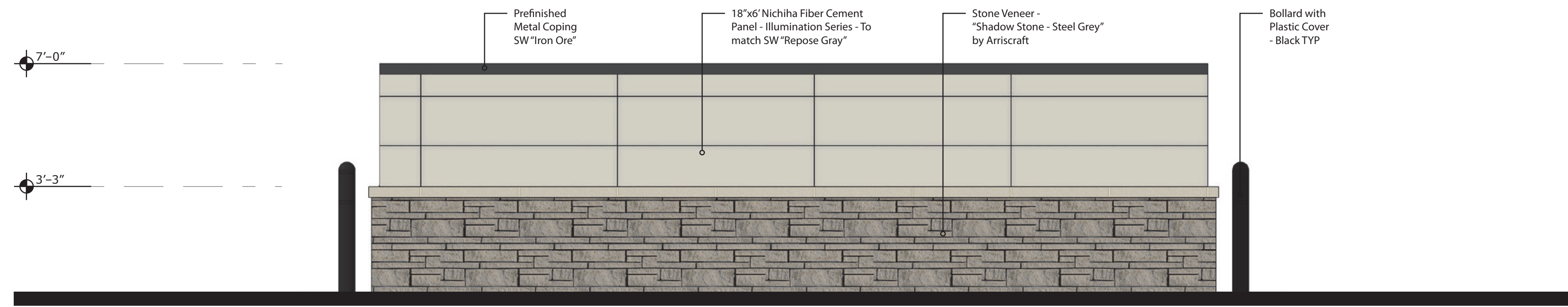
SHEET NUMBER:

P2
14 OF 19

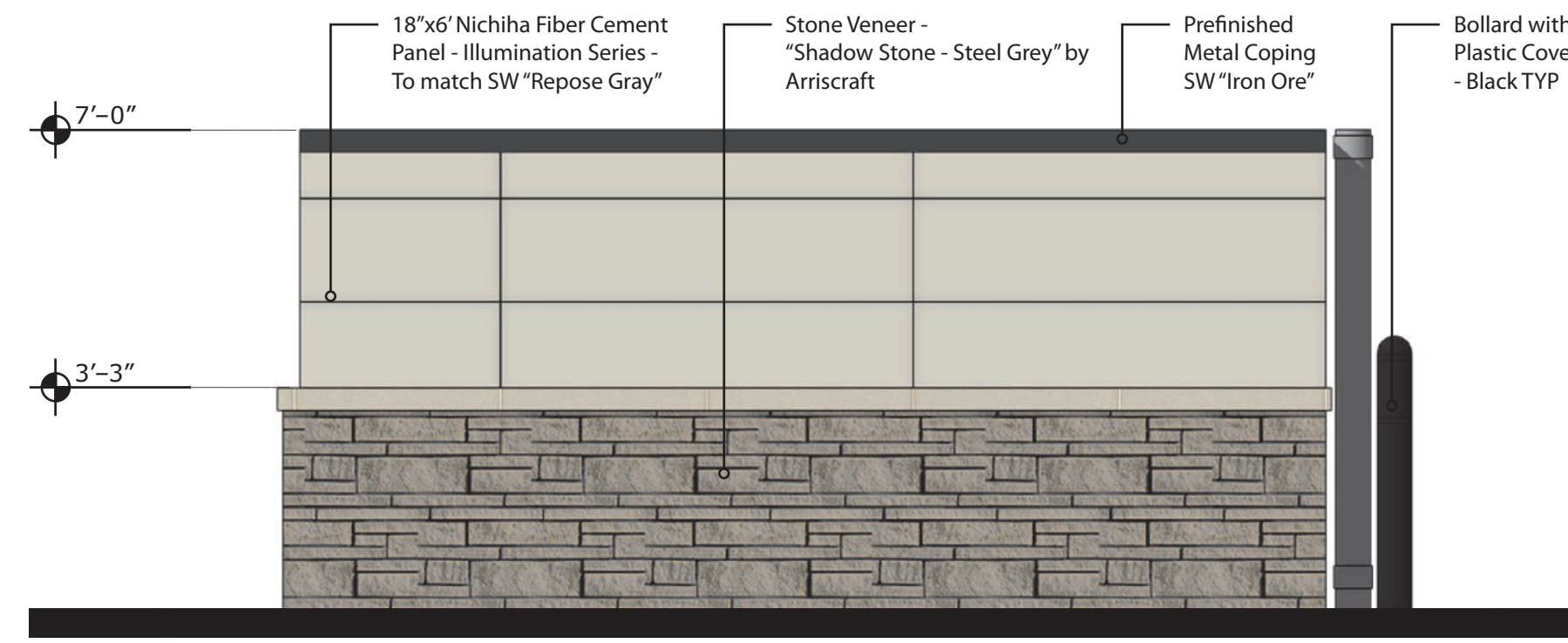
**TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1
KUM & GO #2293 GAS & C-STORE SITE PLAN**



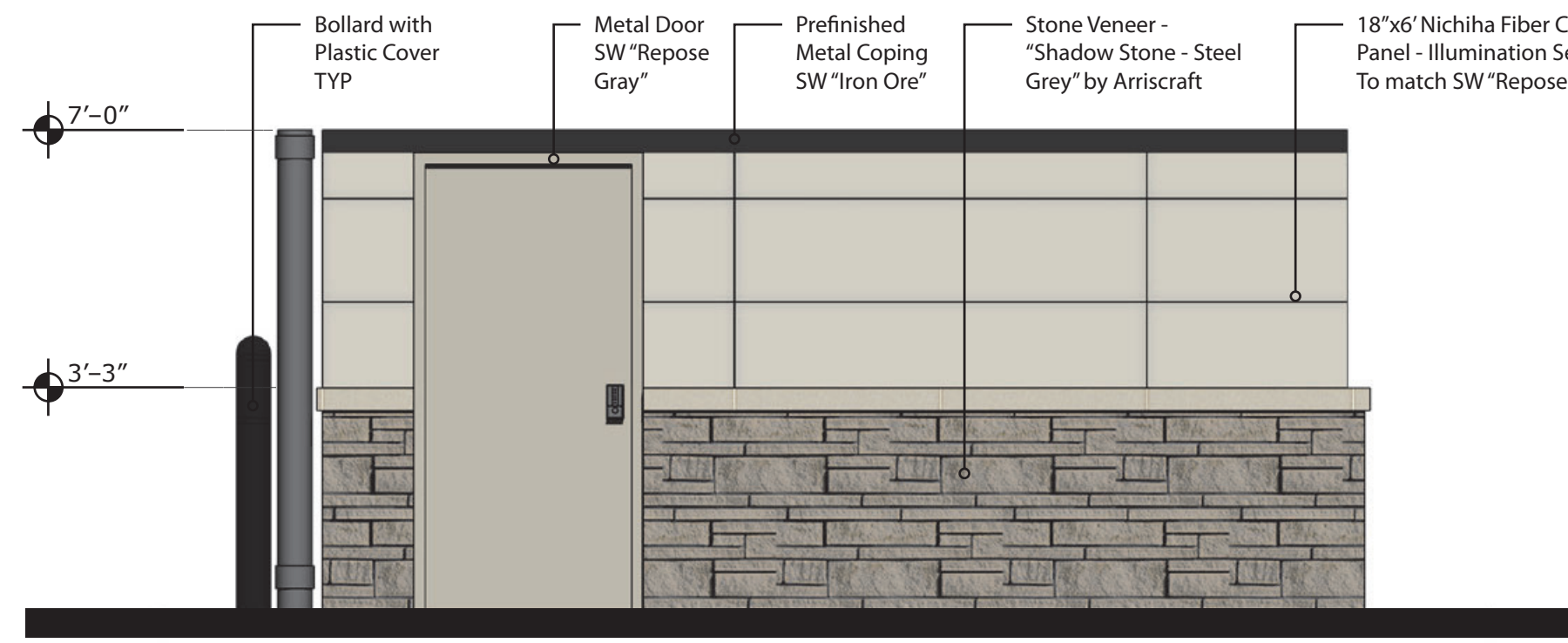
East Elevation
NTS



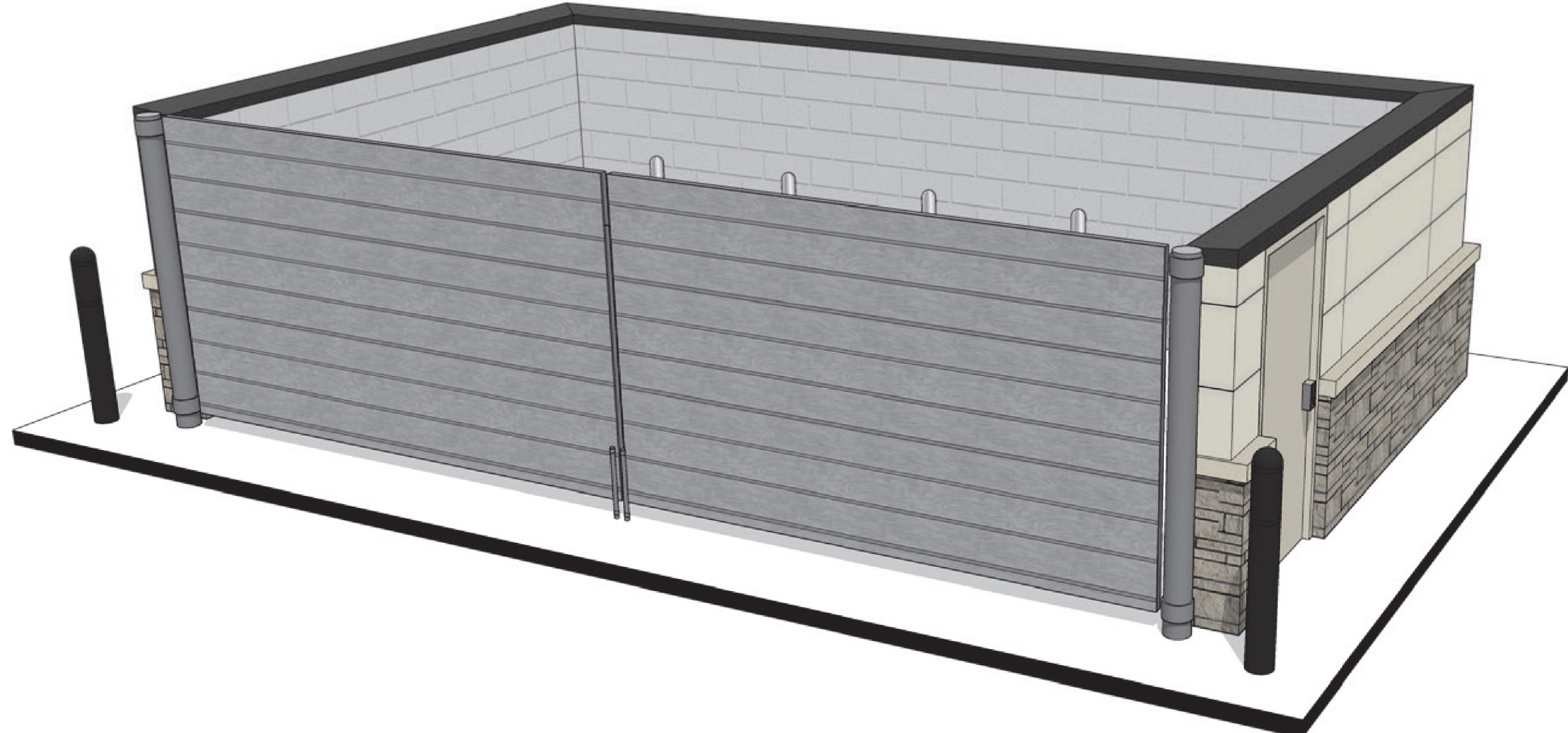
West Elevation
NTS



South Elevation
NTS

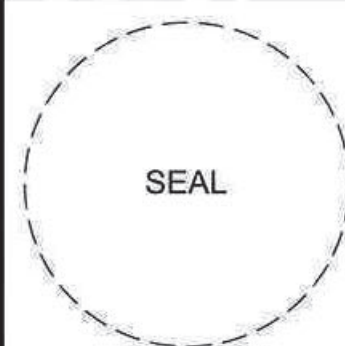


North Elevation
NTS



Perspective
NTS

brr
ARCHITECT OF RECORD:
BRR ARCHITECTURE, INC
8131 METCALF AVENUE
SUITE 300
OVERLAND PARK, KS 66204
www.brrarch.com
TEL: 913-262-9095
FAX: 913-262-9044



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50309
P:515-457-6247

2293 - PARKER, CO
N PINERY PKWY AND BAYOU GULCH RD
TRASH ENCLOSURE ELEVATIONS

KG PROJECT TEAM:
RDM:
SDM:
CPM:

REVISION DESCRIPTION	DATE

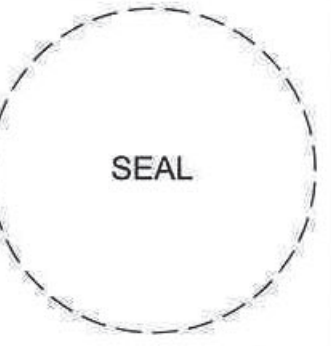
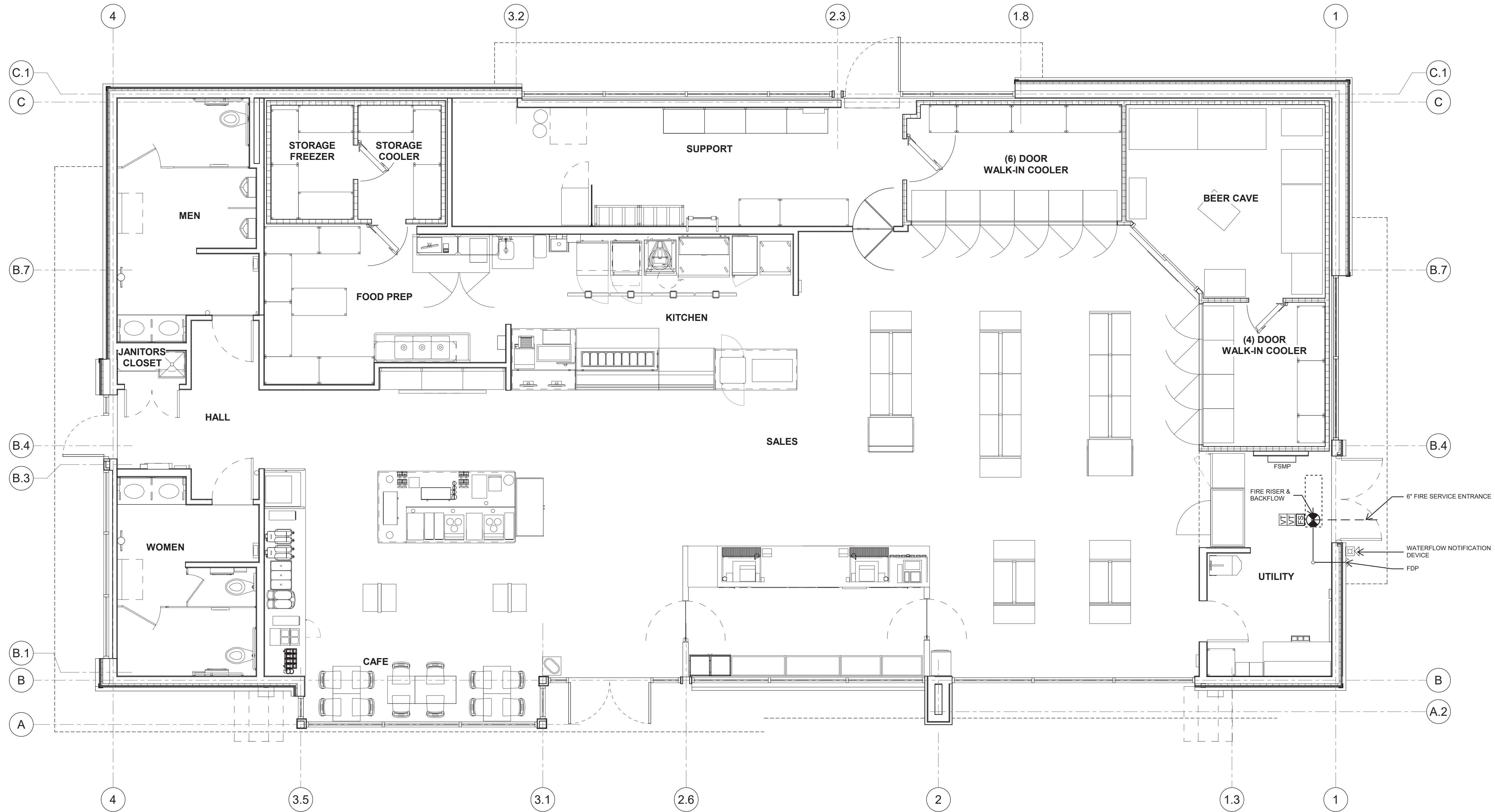
DATE: 07/05/2023

SHEET NUMBER:
P3
15 OF 19

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1
KUM & GO #2293 GAS & C-STORE SITE PLAN

brr

ARCHITECT OF RECORD:
BRR ARCHITECTURE, INC
8131 METCALF AVENUE
SUITE 300
OVERLAND PARK, KS 66204
www.brrarch.com
TEL: 913-262-9095
FAX: 913-262-9044



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Des Moines, Iowa
50309
P:515-457-6247

2293 - PARKER, CO
N PINERY PKWY AND BAYOU GULCH RD
FIXTURE PLAN

KG PROJECT TEAM:
RDM:
SDM:
CPM:

REVISION DESCRIPTION	DATE

DATE: 07/05/2023

SHEET NUMBER:

P4
16 OF 19

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1 KUM & GO #2293 GAS & C-STORE SITE PLAN

PRELIMINARY
NOT FOR
CONSTRUCTION



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Des Moines, IA 50309
P: 888-458-6646

2293 - KUM AND GO - PARKER, CO
 NEC OF BAYOU GULCH RD AND PINERY PKWY
 PHOTOMETRIC CUT SHEET

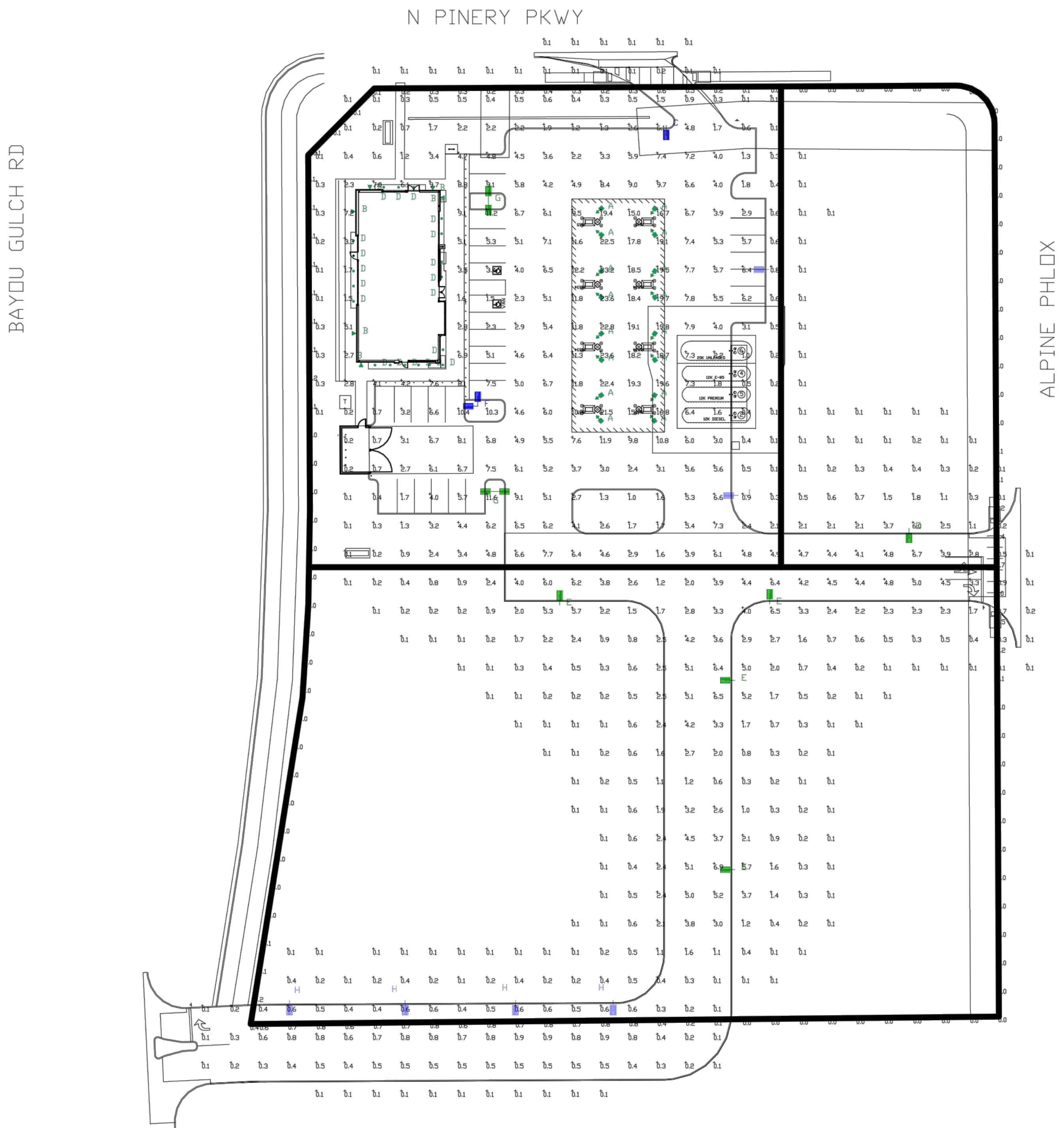
KG PROJECT TEAM: EES
RDM:
SDM:
CPM:

REVISION DESCRIPTION	DATE

DATE: 07-12-2023

SHEET NUMBER: P5

17 OF 19



Photometric data for fixture types "B & D" are based upon another manufacturer's test data and as a result can not be verified by LSI Industries for this calculation.

Total Project Watts
Total Watts = 5977.411

1888 ALLIANCE RD. CINCINNATI, OHIO 45240 USA
TEL: 703-505-7744 FAX: 615-755-0000

LIGHTING PROPOSAL LO-156564-4

KUM & GO #2293
PINERY & BAYOU GULCH
PARKER, CO

BYMVE	DATE: 09-01-22	REV: 07-13-23	SHEET 1 OF 1
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SCALE: 1"=40'

Label	CalcType	Units	Avg	Max	Min	Avg/Min	
ALL_CALC_POINTS	Illuminance	Fc	2.90	23.6	0.1	29.00	236.00
PRDPRTY_LINE @ GRADE	Illuminance	Fc	0.18	1.0	0.0	N.A.	N.A.
CANDPY	Illuminance	Fc	17.53	23.6	9.5	1.85	2.48
INVENTORY & GENERAL PARKING	Illuminance	Fc	4.31	11.9	0.1	43.10	119.00
PRINCIPAL DISPLAY	Illuminance	Fc	5.68	11.2	1.5	3.79	7.47

Symbol	Qty	Label	Arrangement	Description	Mounting Height	LLD	LLF	Arr. Lum. Lumens	Arr. Watts
	16	A	SINGLE	SCV-LED-23L-SCFT-50-WHT DIMMED 60%	15.5'	0.400	0.400	23101	188
	6	B	SINGLE	WST LED P2 40K VW MVOLT - LITHONIA LIGHTING DIMMED 50%	11'	0.500	0.500	3512	25
	1	C	SINGLE	SLM-LED-18L-SIL-FT-50-70CRI-IH-SINGLE-BLK	16'POLE+2.5'BASE	1.000	1.000	15331	187.91
	20	D	SINGLE	DNR52609 LED6-40K - ATLANTIC LIGHTING DIMMED80%	9'	0.200	0.200	1579	23.8
	5	E	SINGLE	SLM-LED-18L-SIL-FT-50-70CRI-SINGLE-BLK DIMMED 30%	16'POLE+2.5'BASE	1.000	1.000	19664	148.5
	1	F	2 @ 90 degrees	SLM-LED-18L-SIL-FT-50-70CRI-D90-BLK DIMMED 20%	16'POLE+2.5'BASE	0.800	0.800	39328	297
	2	G	D180°	SLM-LED-18L-SIL-FT-50-70CRI-D180 -BLK DIMMED 20'	16'POLE+2.5'BASE	0.800	0.800	39328	297
	4	H	Single	SLM-LED-09L-SIL-3-50-70CRI-SINGLE-BLK DIMMED 80%	16'POLE+2.5' BASE	0.200	0.200	9743	63
	2	J	Single	SLM-LED-18L-SIL-FT-50-70CRI-IL	16'POLE+2.5' BASE	1.000	1.000	12043	135

PHOTOMETRIC EVALUATION
NOT FOR CONSTRUCTION

Based on the information provided, all dimensions and luminaire locations shown represent recommended positions. The engineer and/or architect must determine the applicability of the layout to existing or future field conditions.

This lighting plan represents illumination levels calculated from laboratory data taken under controlled conditions in accordance with the Illuminating Engineering Society (IES) approved methods. Actual performance of any manufacturer's luminaires may vary due to changes in electrical voltage, tolerance in lamps/LED's and other variable field conditions. Calculations do not include obstructions such as buildings, curbs, landscaping, or any other architectural elements unless noted. Fixture nomenclature noted does not include mounting hardware or poles. This drawing is for photometric evaluation purposes only and should not be used as a construction document or as a final document for ordering product.

TRAILS AT CROWFOOT FILING NO. 9, 1ST AMENDMENT LOT 1 KUM & GO #2293 GAS & C-STORE SITE PLAN

Catalog #: _____ Project: _____ Type: _____
 Prepared by: _____ Date: _____

Scottsdale Vertex™ (SCV) Petroleum Canopy Light



OVERVIEW	
Lumen Package (lm)	9,000 - 23,000
Wattage Range (W)	67 - 188
Efficacy Range (LPW)	109 - 154
Weight lbs (kg)	18.5 (8.4)

QUICK LINKS

- [Ordering Guide](#)
- [Performance](#)
- [Photometrics](#)
- [Dimensions](#)

FEATURES & SPECIFICATIONS

- Construction**
 - Rugged low-profile die-cast aluminum housing, optical unit, and driver cover.
 - Below canopy access to optical chamber and driver housing for serviceability.
 - IP66 rated luminaire protects integral components from dust and water.
 - Fixtures are finished with LS's DuraGrip™ polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.
 - Four fasteners secure the door frame to housing. Door frame also provides quick and easy access to the electrical compartment for servicing.
 - Shipping weight: 18.5 lbs in carton.
- Optical System**
 - Symmetrical distribution utilizes a clear tempered flat glass lens to uniformly illuminate the area under the gas canopy.
 - Combination Forward Throw distribution uses clear tempered flat glass and optical grade PMMA acrylic lens to create an industry leading unique distribution pattern to illuminate the area under the gas canopy and the area between the gas canopy and convenience store eliminating the need for extra floodlights.
 - Available in 5000K, 4000K and 3000K color temperatures.
 - Minimum CRI of 80.
- Electrical**
 - High-performance factory programmable driver. Features include over-voltage, undervoltage, short circuit and over temperature protection.
 - Integral 6kV surge protection that meets IEEE C62.41.2 and ANSI C82.77-5 Location Category C Low standards.
- Installation (Standard)**
 - Installs in a 12" or 16" deck pan.
 - Four fasteners are provided for use in single deck steel canopies. Other suitable fasteners may be required and provided by others.
 - Unit is designed to quickly retrofit into existing Scottsdale (4") hole.
 - Aluminum locking collar and gasket are included and required for complete seal and support of canopy deck.
 - Retrofit panels are available for existing Encores, Richmonds, 2x2 Universal, and more.
 - Direct mount to surface or recessed J box with hardware bracket kit ordered separately as an accessory.
- Installation (REDMount)**
 - Patent pending 3 piece quick mounting system; components include collar, capsule and connector.
 - Designed to reduce canopy penetrations and increase installation efficiency.
 - Installs in 12" or 16" deck pan.
- Warranty**
 - LSI luminaires carry a 5-year limited warranty. Refer to <https://www.liscorp.com/resources/terms-conditions-warranty/> for more information.
- Listings**
 - Listed to UL 1598 and UL 8750.
 - Meets Buy American Act requirements.
 - State of California Title 24 Compliant with IMBST option.
 - DesignLights Consortium™ (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/DQL to confirm which versions are qualified.
 - IDA compliant with 3000K or lower color temperature.
- Hazardous Location**
 - Designed for lighter than air fuel applications. Product is suitable for Class 1 Division 2 with all lumen packages and distributions only when properly installed per LSI installation instructions. Models with optional controls are not approved for Class 1, Division 2 applications.
 - Gas Groups: A, B, C, and D - Group A: Acetylene / Group B: Hydrogen / Group C: Propane and Ethylene / Group D: Benzene, Butane, Methane & Propane.

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Scottsdale Vertex™ (SCV) Petroleum Canopy Light

Have questions? Call us at (800) 436-7800
 Back to Quick Links

ORDERING GUIDE											
TYPICAL ORDER EXAMPLE:	SCV	LED	13L	SC	UNV	DIM 5"	WHIT	IMSBT2	REDI		
Prefix	Light Source	Lumen Package	Distribution	Voltage	Driver	Color Temperature	Finish	Options	Mounting		
SCV	Petroleum Canopy Light	LED	13L - 13,000 Lumens 15L - 15,000 Lumens 20L - 20,000 Lumens 23L - 23,000 Lumens	SC - Standard Symmetric	UNV - Universal Voltage (120-277VAC) HW - 547-480V ¹	WHIT - White BLK - Black BRZ - Bronze	Blank - None ALBKS2 - Jet-Link Blue Wireless Motion & Photo Sensor Controller (8-24" mounting height) ALBKS2 - Jet-Link Blue Wireless Motion & Photo Sensor Controller (25-40" mounting height) IMSBT1 - Integral Bluetooth™ Motion and Photo Sensor (8-24" mounting height) IMSBT2 - Integral Bluetooth™ Motion and Photo Sensor (25-40" mounting height) HW - Hazardous Location Class Div 2 ²	Blank - None REDI - REDMount Integrated Junction box system ³			

Need more information? Click here for our glossary.
 Have additional questions? Call us at (800) 436-7800

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ACCESSORY ORDERING INFORMATION	
Part Number	Description
6754292	Retrofit Panel Kit - EC / ECTA / SCF to SCV, for 16" deck Panel with larger openings ¹
687461	Junction Box
1320540	Kit - Hole Plugs and Sealant (enough for 25 retrofits)
6760182	Retrofit Panel Kit - EC / ECTA / SCF to SCV, for 12" deck Panel ¹
6762912WMT	Rectangular Top Plate Kit (includes top plate and sealant)
6743292	Retrofit Panel Kit - UNV Universal 2x2 to SCV
357282	Retrofit 2x2 Cover Panel Blank (no holes)
357402	Retrofit RUC Cover Panel Blank (no holes)
57125WMT	26" X 26" Beauty Plate Kit (with 4" Center hole)
56416WMT	26" X 52" Beauty Plate Kit (with 4" Center hole)

1. Custom lumen and wattage packages available consult factory. Values are within industry standard tolerances but not DLC listed.
 2. Not available with REDMount.
 3. 0-10V dimming and dimming not available with REDMount.
 4. IMBST is not compatible for 16" hole but can be accommodated from your manufacturer's rubber seal ring.
 5. Kit not compatible with ALBKS, IMBST, 3000K, or REDMount.
 6. Light fixture requires 200V or 240V or 480V.
 7. Ideal for 1" to 1/2" openings.
 8. Ideal for 1" openings.

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Scottsdale Vertex™ (SCV) Petroleum Canopy Light

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PERFORMANCE											
Delivered Lumens ¹											
Lumen Package	Delivered Lumens	3000K CCT			4000K CCT			5000K CCT			Wattage
		Efficiency	BUG Ratings	Delivered Lumens	Efficiency	BUG Ratings	Delivered Lumens	Efficiency	BUG Ratings		
13L	9,652	144	83-10-G1	9,928	148	83-10-G1	10,317	154	83-10-G1	67	
15L	12,567	140	83-10-G1	12,927	144	83-10-G1	13,445	149	83-10-G1	90	
20L	15,999	137	83-10-G1	16,399	141	83-10-G1	16,965	147	83-10-G1	102	
23L	18,755	141	84-10-G1	19,598	147	84-10-G1	20,234	152	84-10-G1	135	
23L	21,763	141	84-10-G2	22,406	145	84-10-G2	23,284	150	84-10-G2	155	
23L (SCFT)	20,888	111	83-10-G3	23,187	123	84-10-G3	23,101	123	83-10-G3	188	

¹Lumens are frequently updated therefore values are nominal.

Recommended Lumen Maintenance - SCV 15L 5C1 ¹				
Ambient Temperature °C	Initial ²	Lumen Multiplier		
		25k hr ³	50k hr ³	100k hr ³
25	102%	97%	92%	88%
30	102%	97%	92%	88%
35	102%	97%	92%	88%
40	102%	97%	92%	88%
45	101%	95%	91%	86%
50	101%	95%	90%	85%

Recommended Lumen Maintenance - SCV 23L SCFT ¹				
Ambient Temperature °C	Initial ²	Lumen Multiplier		
		25k hr ³	50k hr ³	100k hr ³
25	105%	88%	73%	61%
30	105%	88%	61%	47%
35	105%	70%	47%	32%

Recommended Lumen Maintenance - SCV 25L C1 ¹				
Ambient temperature °C	Initial ²	Lumen Multiplier		
		25k hr ³	50k hr ³	100k hr ³
25	102%	97%	92%	88%
30	102%	97%	92%	88%
35	102%	97%	92%	88%
40	101%	95%	91%	86%

Electrical Data - Current draw in AMPS⁴

Lumen Package	Wattage	120V	208V	240V	277V	347V	480V
13L	67	0.56	0.32	0.28	0.24	0.19	0.14
15L	90	0.75	0.43	0.37	0.32	0.26	0.19
20L	102	0.85	0.49	0.42	0.37	0.29	0.21
23L	135	1.1	0.64	0.55	0.48	0.38	0.28
23L (SC)	155	1.29	0.75	0.65	0.56	0.45	0.32
23L (SCFT)	188	1.57	0.9	0.78	0.68	0.54	0.39

⁴Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%.

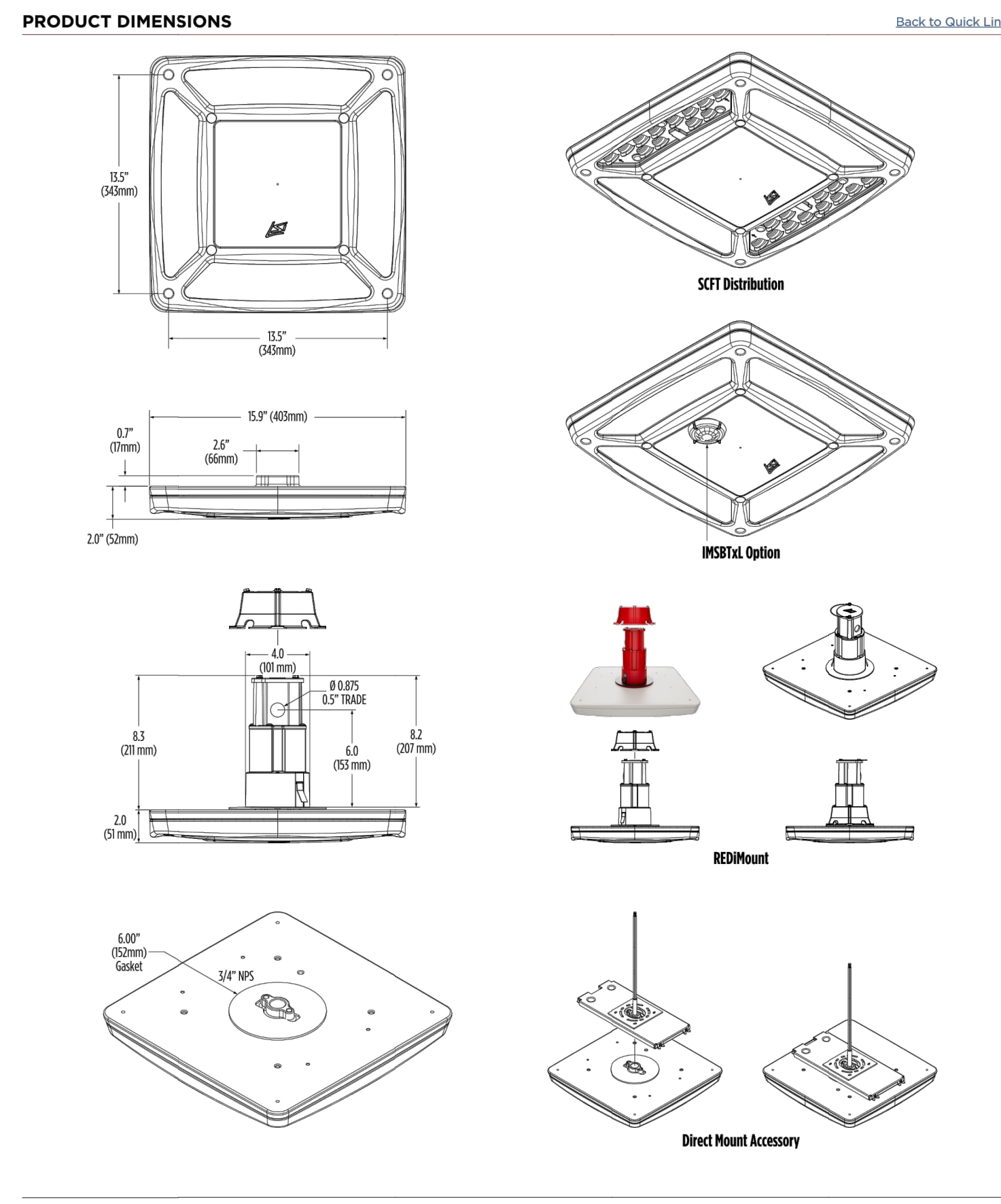
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Part Number	Description
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357282	Retrofit 2x2 Cover Panel Blank (no holes)
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 5. Kit not compatible with ALBKS, IMBST, 3000K, or REDMount.
 6. Light fixture requires 200V or 240V or 480V.
 7. Ideal for 1" to 1/2" openings.
 8. Ideal for 1" openings.

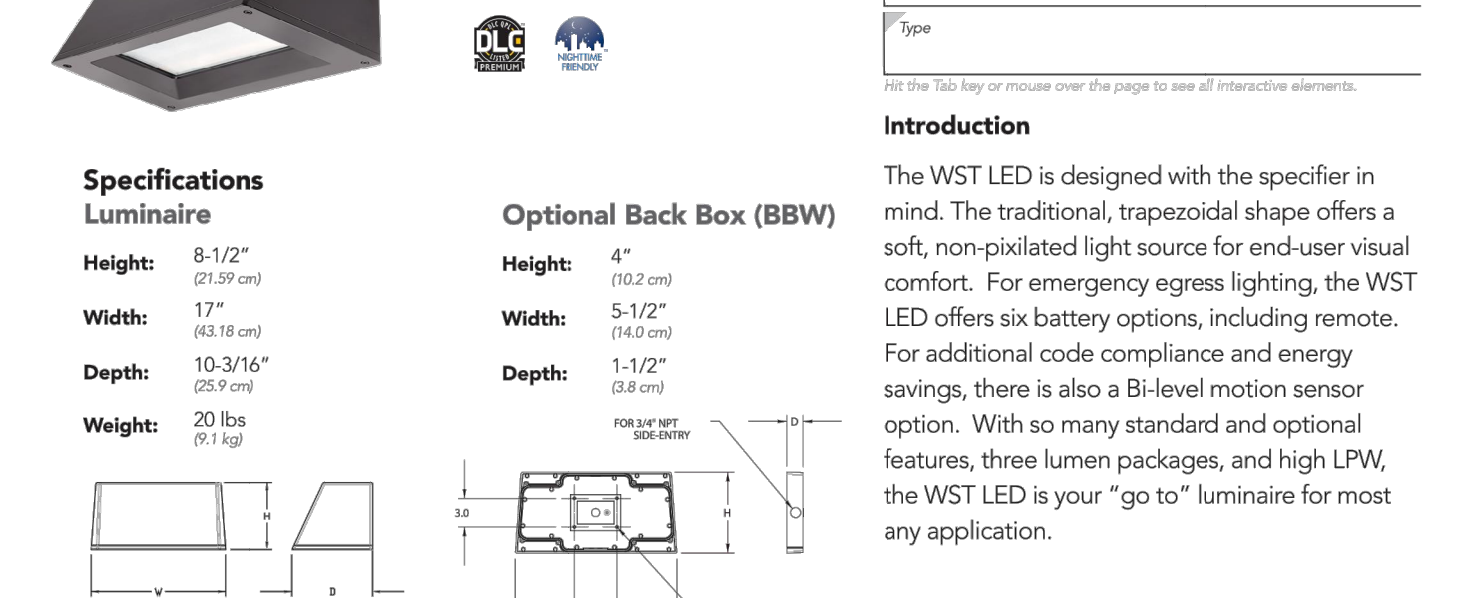
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Scottsdale Vertex™ (SCV) Petroleum Canopy Light



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WST LED Architectural Wall Sconce



Ordering Information
 EXAMPLE: WST LED P1 40K VF MVOLT DBDXTD

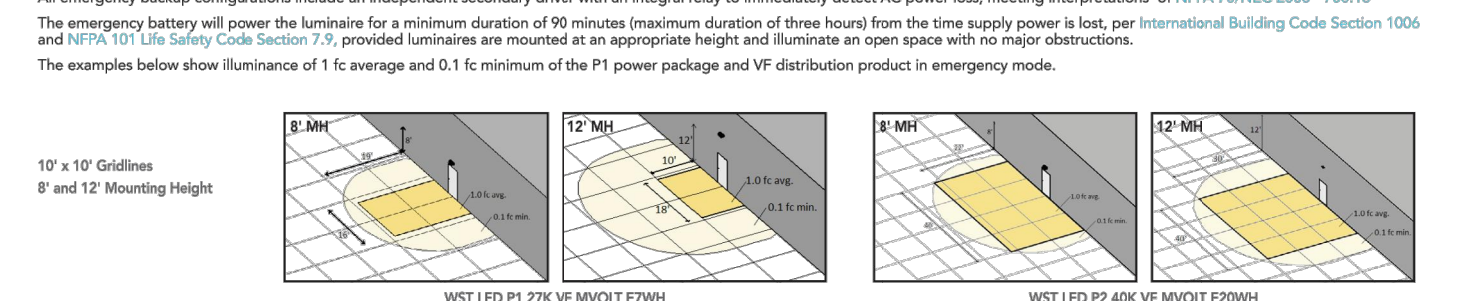
Series	Luminaire Package	Color Temperature	Distribution	Voltage	Mounting
WST LED	P1 1,500 Lumen package	27K 2700K	VF Visual comfort forward throw	MVOLT ¹ 277	Shipped included (blank) Surface mounting bracket
	P2 3,000 Lumen package	30K 3000K	VW Visual comfort wide	120 ² 347	Shipped separately
	P3 6,000 Lumen package	40K 4000K		240 ³ 647	BBW Surface-mounted back box ⁴ PBW Premium surface-mounted back box ⁵

System	Finish (optional)
PE Photometric cell, button type	EPWK Emergency battery backup (60k, 7W) ⁶
PER Remote emergency battery backup (remote 7W) ⁶	EDWBK Remote emergency battery backup (remote 7W) ⁶
PERS Fix-wire receptacle only	E20WH Emergency battery backup (20W) ⁶
PER7 Seven-wire receptacle only	DWHDK White
DMG 0-10V dimming extend out back of housing for external control (no control) ⁷	E23WHR Remote emergency battery backup (remote 20W) ⁶
PBHCV Motion Ambient Light Sensor, 8-15" mounting height ⁸	ICE left-side corded entry ⁹
PBHCV Motion Ambient sensor, 8-15" mounting height, ambient sensor enabled at 16" ⁸	RCE right-side corded entry ⁹
PRH 180° motion ambient light sensor, 15-30" mounting height ⁸	
PRHFCV Motion Ambient sensor, 15-30" mounting height, ambient sensor enabled at 16" ⁸	
DF Single face (120, 277, 347V) ¹⁰	RPBW Retrofit back plate ¹¹
DF Double face (208, 240, 480V) ¹⁰	WC Wedge ¹²
IS Dual switch ¹⁰	
EWN Emergency battery backup (7W) ¹³	

NOTES:
 1. MVOLT driver operates on any line voltage from 120-277V (50/60Hz). Specialty 120, 208, 240, or 277 options only when ordering with Motion-type photometric (PE, PER, PER7, PER8, PER9, PER10, PER11, PER12, PER13, PER14, PER15, PER16, PER17, PER18, PER19, PER20, PER21, PER22, PER23, PER24, PER25, PER26, PER27, PER28, PER29, PER30, PER31, PER32, PER33, PER34, PER35, PER36, PER37, PER38, PER39, PER40, PER41, PER42, PER43, PER44, PER45, PER46, PER47, PER48, PER49, PER50, PER51, PER52, PER53, PER54, PER55, PER56, PER57, PER58, PER59, PER60, PER61, PER62, PER63, PER64, PER65, PER66, PER67, PER68, PER69, PER70, PER71, PER72, PER73, PER74, PER75, PER76, PER77, PER78, PER79, PER80, PER81, PER82, PER83, PER84, PER85, PER86, PER87, PER88, PER89, PER90, PER91, PER92, PER93, PER94, PER95, PER96, PER97, PER98, PER99, PER100).
 2. Also available as a separate accessory, see accessories information.
 3. Top cord entry standard.
 4. Not available with EPWK, E20WH, E23WHR, EDWBK, EDWHR, or E23WHR. Not available with PER5, PER7, PER8, PER9, PER10, PER11, PER12, PER13, PER14, PER15, PER16, PER17, PER18, PER19, PER20, PER21, PER22, PER23, PER24, PER25, PER26, PER27, PER28, PER29, PER30, PER31, PER32, PER33, PER34, PER35, PER36, PER37, PER38, PER39, PER40, PER41, PER42, PER43, PER44, PER45, PER46, PER47, PER48, PER49, PER50, PER51, PER52, PER53, PER54, PER55, PER56, PER57, PER58, PER59, PER60, PER61, PER62, PER63, PER64, PER65, PER66, PER67, PER68, PER69, PER70, PER71, PER72, PER73, PER74, PER75, PER76, PER77, PER78, PER79, PER80, PER81, PER82, PER83, PER84, PER85, PER86, PER87, PER88, PER89, PER90, PER91, PER92, PER93, PER94, PER95, PER96, PER97, PER98, PER99, PER100).
 5. Not available with MVOLT option. Button photometric (PE) can be ordered with a dimming control option. See dimming control option information.
 6. Battery pack rated for -20° to 40°C.
 7. Comes with PBW.
 8. Warranty period is 3 years.
 9. Not available with BBW.
 10. Must order with fixture, not an accessory.
 11. Must order with fixture, not an accessory.

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Emergency Battery Operation



Performance Data

Performance Factor	Nom. Value	Min. Value	Max. Value	Lumen Output													
				10000K	15000K	20000K	25000K	30000K	35000K	40000K	45000K	50000K	55000K				
P1	12W	VF	1,694	0	0	0	125	1,529	0	0	0	127	1,689	0	0	0	137
				1,529	0	0	126	1,588	0	0	129	1,689	0	0	138	1,689	0
P2	15W	VF	3,162	1	0	1	126	3,236	1	0	1	129	3,468	1	0	1	139
				3,232	1	0	128	3,277	1	0	131	3,352	1	0	140	3,352	1
P3	30W	VF	6,420	1	0	1	129	6,364	1	0	1	129	6,687	1	0	1	132
				6,364	1	0	122	6,342	1	0	1	125	6,681	1	0	1	134

Lumen Ambient Temperature (LAT) Multipliers
 Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F)

Ambient Temperature	Lumen Multiplier
0°C	1.0
10°C	0.97
20°C	0.94
30°C	0.91
40°C	0.87

Projected LED Lumen Maintenance
 Values calculated according to IESNA TM-21-11 methodology and held up to 40°C.

Ambient Temperature	Initial	Lumen Multiplier		
		25k hr	50k hr	100k hr
25	102%	97%	92%	88%
30	102%	97%	92%	88%
35	102%	97%	92%	88%
40	101%	95%	91%	86%

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