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DEVELOPMENT REVIEW COMMITTEE

Tuesday, April 23, 2024, at 10:00 AM Council Chambers at City Hall Building and Online 110 S. Center Street, Santaquin, UT 84655

MEETINGS HELD IN PERSON & ONLINE

The public is invited to participate as outlined below:

- In Person The meeting will be held in the Council Chambers on the Main Floor in the City Hall Building
- YouTube Live Some public meetings will be shown live on the Santaquin City YouTube Channel, which can be found at <u>https://bit.ly/2P7ICfQ</u> or by searching for Santaquin City Channel on YouTube.

ADA NOTICE

If you are planning to attend this Public Meeting and due to a disability need assistance in understanding or participating in the meeting, please notify the City Office ten or more hours in advance and we will, within reason, provide what assistance may be required.

AGENDA

NEW BUSINESS

1. Quick Quack Car Wash Site Plan

A review a commercial site plan for a proposed car wash located at approximately 78 N. 500 E.

2. CC Callaway Site Plan

A review of a site plan for a proposed light industrial building located at approximately 77 N. Summit Ridge Parkway.

MEETING MINUTES APPROVAL

3. April 9, 2024

ADJOURNMENT

CERTIFICATE OF MAILING/POSTING

The undersigned duly appointed City Recorder for the municipality of Santaquin City hereby certifies that a copy of the foregoing Notice and Agenda may be found at www.santaquin.org, in three physical locations (Santaquin City Hall, Zions Bank, Santaquin Post Office), and on the State of Utah's Public Notice Website, https://www.utah.gov/pmn/index.html. A copy of the notice may also be requested by calling (801)754-1904.

BY:

Amalie R. Ottley, City Recorder

QUICK QUACK SANTAQUIN 500 EAST SANTAQUIN, UT



INDEX

- G-0 Cover Sheet
- C-1 Site Plan
- C-2 Grading Plan
- C-3 Drainage Plan
- C-4 Utility Plan
- C-5 Details
- C-6 Utility Details
- C-7 Stormwater Pollution Prevention Plan
- C-8 SWPPP Details
- L-1 Landscape Plan
- Photometric Plan

DEVELOPER: RUSS NELSON LONESTAR BUILDERS 2208 WEST 700 SOUTH ENGINEERING SPRINGVILLE, UT 84663 (435) 757-0400 RUSS.NELSON@LONESTARBUILDERSINC.COM ELEVATE ENGINI 2208 WEST 700 SOUTH SPRINGVILLE, UT 84663 PHONE: (801) 718–5993 larvin@elevatenq.com 58,811 SF (1.35 ACRES) 4,081 SF± 6.9% 37,507 SF± 63.8% 17,223 SF± 29.3% ш ш \mathcal{O} \triangleleft \bigcirc \bigcirc Ю Q QUIN \triangleleft Ζ \triangleleft S \triangleleft QU ∞ \leq \bigcirc QUI

. Feb 13, 2024

PROJECT ENGINEER: LARVIN POLLOCK ELEVATE ENGINEERING 2208 WEST 700 SOUTH SPRINGVILLE, UT 84663 (801) 718-5993 LARVIN@ELEVATENG.COM <u>SITE DATA</u> LOT AREA: BUILDING AREA: PAVEMENT AREA: LANDSCAPE AREA: ZONING: C-1 (GENERAL COMMERCIAL) CONDITIONAL USE PARCEL ID#: 517170008 NOTE: THE DEVELOPER AND THE GENERAL CONTRACTOR UNDERSTAND THAT IT IS HIS/HER RESPONSIBILITY TO ENSURE THAT ALL IMPROVEMENTS INSTALLED WITHIN THIS DEVELOPMENT ARE CONSTRUCTED IN FULL COMPLIANCE WITH ALL STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS. THESE PLANS ARE NOT ALL INCLUSIVE OF ALL MINIMUM CODES, ORDINANCES AND STANDARDS. THIS FACT DOES NOT RELIEVE THE DEVELOPER OR GENERAL CONTRACTOR FROM FULL COMPLIANCE WITH ALL MINIMUM STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS. NOTE: ALL RECOMMENDATIONS MADE IN A PERTINENT GEOTECHNICAL REPORT/STUDY SHALL BE FOLLOWED EXPLICITLY DURING CONSTRUCTION OF BUILDINGS AND SITE IMPROVEMENTS.

LEGEND & ABBREVIATION TABLE

R.O.W./PROPERTY LINE	
EASEMENT LINE	
CENTER LINE	
PROPOSED TRAIL	
PROPOSED WATER LINE	ww
PROPOSED PRESSURIZED IRRIGATION	PI PI-
PROPOSED GROUND WATER DRAIN	GWGW
PROPOSED SEWER LINE	SSSS ·
PROPOSED STORM DRAIN LINE	
EXISTING SEWER LINE	SSSS-
EXISTING WATER LINE	W W
EXISTING STORM DRAIN LINE	SDSD
EXISTING CONTOUR	<u> </u>
FINISHED CONTOUR	

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EXISTING CURB AND GUTTER	
PROPOSED CURB AND GUTTER	
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TOP BACK CURB	TBC
TOP ASPHALT	TA
TOP OF GRATE	TOG
FINISHED GRADE	FG
TOP OF CONCRETE	TC
HIGH WATER ELEVATION	HWE
CATCH BASIN	
SURFACE FLOW DIRECTION	
PROPOSED STREET LIGHT	\$
STORM DRAIN MANHOLE	D
SANITARY SEWER MANHOLE	S
PROPOSED WATER VALVE	₩V X



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WEST 700 SOUTH NGVILLE, UT 84663 718–5993 IN@ELEVATENG.COM	LLULIND	DESIGNE
	EXISTING CURB AND GUTTER	REVISIO
	BUILDING SETBACK LANDSCAPE SETBACK	O.
	EXISTING BUILDING	<u>ک</u>
	TOP BACK OF CURB TBC FINISHED FLOOR ELEVATION FFE	NEERII H 83 93
	LANDSCAPE AREA CONCRETE AREA	E ENGI 700 SOUTI 718-599
	CANOPY	ELEVATE 2208 WEST SPRINGVILLE PHONE: (801 larvin@elevateng.
	SITE DATA LOT AREA: 58,811 SF (1.35 ACRES) BUILDING AREA: 4,081 SF± 6.9% PAVEMENT AREA: 37,507 SF± 63.8%	
	LANDSCAPE AREA: 17,223 SF± 29.3% ZONING: C-1 (GENERAL COMMERCIAL) CONDITIONAL USE PARCEL ID#: 517170008	
	BUILDING DATA CONSTRUCTION TYPE: V-B	
	SPRINKLERS: NO SETBACKS: FRONT=10 FEET REAR=10 FEET SIDE=10 FEET	
STAND THAT ENTS ILL DINANCES AND	PARKING TABULATION REQUIRED: 5 STALLS PER 1,000 SF PROVIDED: 3 STALLS 1 ADA STALL	
NIMUM CODES, HE WITH ALL STANDARDS.	VACUUM STALLS: 19 STALLS TUNNEL LENGTH: 114 FEET STACKING: 14 STALLS	
NICAL RUCTION OF	NOTES: 1 PROPOSED 5' SIDEWALK PER DRAWING NO. CG5. SEE SHEET	TST
	 2 ALL HANDICAP STALLS AND RAMPS TO BE INSTALLED PER DRAWING NO. CG1. SEE SHEET C-5 FOR DETAILS.) E/
	 PROPOSED CURB & GUTTER TYPE E PER DRAWING NO. CG4. SEE SHEET C-5 FOR DETAILS. PROPOSED CURB TYPE P PER DRAWING NO. CG4. SEE 	50(
	 SHEET C-5 FOR DETAILS. CONSTRUCT VACUUM ENCLOSURE WITH CONCRETE PAD AND APRON. INSTALL OWNER PROVIDED VACUUM EQUIPMENT, UNDERGROUND TRUNK LINES. PIPING, ETC. COORDINATE 	
1	6 PAINT 4" SOLID YELLOW PAINT STRIPE AS SHOWN	TAQ PLA FAQUIN
and the second	7 INSTALL OWNER PROVIDED "TOMMY BALL" PLANTERS/GARBAGE RECEPTACLE (TYPICAL). COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILS.	SAN SAN san
	8 INSTALL OWNER PROVIDED PAY STATIONS WITH CANOPY. COORDINATE WITH ARCHITECTURAL PLANS FOR DETAILS.	CK 500 E,
TION EASEMENT	(9) INSTALL OWNER PROVIDED GATES AND LOOP DETECTION SYSTEM. COORDINATE TIMING OF INSTALLATION PRIOR TO CONSTRUCTION OF PAVEMENT. SEE ARCHITECTURAL PLANS FOR DETAILS.	QUA N 8
	10 PROPOSED DUMPSTER LOCATION. SEE SHEET C-5 FOR DETAILS.	
		- MU
ER EASEMENT	REFORE YOU OF A CONTRACT OF A	SSONAL EN SSONAL EN 2/13/2024 10864737 LARVIN POLLOCK
	SCALE: 1" = 20'	SHEET:
	0 10 20 30 40 60	DATE: Feb 13, 2024

LEGEND

LOT LINES (PROPERTY) EXISTING CURB AND GUTTER	
PROPOSED CURB AND GUTTER	
PROPOSED STORM DRAIN LINE EXISTING STORM DRAIN LINE	
GRADE BREAK	<i>GRADE</i> <i>BREAK</i>
FINISH GRADE CONTOUR LINES	<u>∕</u> <u>4960</u>
EXISTING GRADE CONTOUR LINES	<u> </u>
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GRADE BREAK	GB
INVERT ELEVATION	IE
TOP OF GRATE	TOG
TOP OF ASPHALT	ТА
TOP BACK OF CURB	TBC
EXISTING	EX
FINISHED GRADE	FG
FINISHED FLOOR ELEVATION	FFE
BACK OF SIDEWALK	BOW
EDGE OF ASPHALT	EOA
TOP OF FOUNDATION	TOF

NOTE: THE DEVELOPER AND THE GENERAL CONTRACTOR UNDERSTAND THAT IT IS HIS/HER RESPONSIBILITY TO ENSURE THAT ALL IMPROVEMENTS INSTALLED WITHIN THIS DEVELOPMENT ARE CONSTRUCTED IN FULL COMPLIANCE WITH ALL STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS. THESE PLANS ARE NOT ALL INCLUSIVE OF ALL MINIMUM CODES, ORDINANCES AND STANDARDS. THIS FACT DOES NOT RELIEVE THE DEVELOPER OR GENERAL CONTRACTOR FROM FULL COMPLIANCE WITH ALL MINIMUM STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS.

NOTE: ALL RECOMMENDATIONS MADE IN A PERTINENT GEOTECHNICAL REPORT/STUDY SHALL BE FOLLOWED EXPLICITLY DURING CONSTRUCTION OF BUILDINGS AND SITE IMPROVEMENTS.

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BY DATE							DESIGNER: JM	
REVISIONS							t engineer: LP	
NO.							PROJECI	
		ELEVALE ENGINEERING	2208 WEST 700 SOLTH	SPRINGVILLE. UT 84663	PHONE: (801) 718–5993	larvin@elevateng.com		
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OF= 494					0.00	Duraff Cast	that and	
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				Total Area	58811	ft^2	Weighted C	0.7
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PR-1 03 ACRES				Lapsed Time (min)	Accum Rainfall (in)	"CA" (ft^2)	Accum Flow (ft^3)	Allowable Release (ft^3)
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		, g ^{ko}			1.35	41684	4689	
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							Total Stora	ge Required
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	Total Volume (ffA3)	Volume/LF	Depth (ft)	Void Ratio	28'X95' R-Tank Area
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106	lividual R-TANK Volume=	Total Inc			
1	ber of R-TANK Systems	Num			
106	Within R-TANK Systems	al Volume Provided	To		

	LEGEI	ND
LOT	LINES (PROPERTY)	
EXIS	STING CURB AND GUTTER	
PRC	OPOSED CURB AND GUTTER	
PRC	DPOSED STORM DRAIN LINE	SDSD
EXIS	STING STORM DRAIN LINE	
GRA	ADE BREAK	<u>GRADE</u> BREAK
FINI	SH GRADE CONTOUR LINES	✓ ⁴ 960 –
EXIS	STING GRADE CONTOUR LINES	(4960)-
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TOF	P OF ASPHALT	TA
TOF	P BACK OF CURB	TBC
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FINI	ISHED GRADE	FG
ΓIN RΔ(CK OF SIDEWALK	BOW
FDC		FOA
TOF	P OF FOUNDATION	TOF
	DESIGN NOTES	<u>.</u>
1	INSTALL CURB INLET BOX PER A SEE SHEET C-6 FOR DETAILS. RIM=4943.47 IE=4940.42	.PWA 315.
2	INSTALL CURB INLET BOX PER A SEE SHEET C-6 FOR DETAILS. RIM=4942.52 IE=4939.52	PWA 315.
3	INSTALL 12" ADS PIPE @ 0.50%	MINIMUM SLOPE
4	INSTALL 28'X95' RTANK SYSTEM 10,613 CF OF STORM WATER STO TOP OF TANK EL=4944.53 BOTTOM OF TANK EL=4939.17	FOR DRAGE CAPACITY.

- 5 INSTALL 6" PVC PIPE TO CONNECT TO ONSITE STORM NETWORK.
- 6 ALL RETAINING WALLS TO BE ENGINEERED AND CONSTRUCTED BY OTHERS

ENGINEERING SOUTH 84663 8–5مم 00 UT 1 ELEVATE 2208 WEST 70 SPRINGVILLE, 1 PHONE: (801) Larvin@elevateng.col \mathcal{O} \triangleleft LШ \bigcirc 4655 0 Ŋ Ô AN QUIN UT AQUIN \triangleleft LШ \vdash AINAG SANT, N V V S யி ACK DR/ 500 \triangleleft Ζ QU 78 QUICK ONAL 10864737 LARVIN 7 , — \sim Feb 13, 2024

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		Item 1.
	PROPERTY/ROW LINE EXISTING CURB AND GUTTER PROPOSED CURB AND GUTTER PROPOSED CURB AND GUTTER PROPOSED STORM DRAIN LINE SD SD SD SD PROPOSED STORM DRAIN LINE SD SD PROPOSED SEWER LINE SS SS SS SS PROPOSED WATER LINE SS SS </th <th>ELLEVATE ENGINEERING NO. REVISIONS BY DATE ELLEVATE ENGINEERING NO. REVISIONS BY DATE 2208 WEST 700 SOUTH PHONE: (B01) 718–5993 PHONE: (B01) 718–5993 PHONE: LP DESIGNER: LP DESIGNER: JM</th>	ELLEVATE ENGINEERING NO. REVISIONS BY DATE ELLEVATE ENGINEERING NO. REVISIONS BY DATE 2208 WEST 700 SOUTH PHONE: (B01) 718–5993 PHONE: (B01) 718–5993 PHONE: LP DESIGNER: LP DESIGNER: JM
STAND THAT IT TS INSTALLED NCE WITH ALL RDS. THESE ANCES AND GENERAL AND IICAL RUCTION OF GE 1. 2. 3. 4. 5. 6. 7.	DESIGN_NOTES: 1 CONNECT TO EXISTING WATER LATERAL PER CITY STANDARDS 2 EXISTING 2" WATER METER. 3 INSTALL 2" POLY WATER LINE PER CITY STANDARDS. 4 END ALL UTILITIES 5' FROM BUILDING, SEE PLUMBING PLANS FOR CONTINUATION. 5 CONNECT TO EXISTING SEWER MAIN PER APWA PLAN 431. SEE SHEET C-5 FOR DETAILS. CONTRACTOR TO VERIFY LOCATION AND ELEVATION PRIOR TO ANY CONSTRUCTION. 6 INSTALL 4" # PVC SDR-35 SEWER PIPE AT 2% MIN. SLOPE. 7 INSTALL 6" CLEANOUT. 8 INSTALL 6" CLEANOUT. 9 INSTALL 6" SANITARY SEWER SAMPLING MANHOLE PER ARM 4944.72 IE IN=4937.74 10 INSTALL 1500 GAL. GREASE INTERCEPTOR/RECLAIM TANKS. INSTALL 3' OF 6"# PVC SDR-35 SEWER PIPE AT 1% MIN. SLOPE BETWEEN TANKS. COORDINATE WITH PLUMBING PLANS FOR DETAILS.	ELEEVATION 500 EAST TILITY PLAN E, SANTAQUIN UT 84655 E N G I N E R I N G
	Image: second	SHEET:
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Feb 13, 2024

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REVISIONS							st engineer: LP	
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LEGEND	DATE I.
PROPERTY/ROW LINE	NO. REVISIONS PROJECT ENGINEER: LP
EXISTING SEWER LINEssss- EXISTING WATER LINEww EXISTING CONTOUR LINE	ELEVATE ENGINEERING ELEVATE ENGINEERING 2208 WEST 700 SOUTH SPRINGVILLE, UT 84663 PHONE: (801) 718–5993 larvin@elevateng.com
NOTES DURING CONSTRUCTION 1. ALL EROSION CONTROL BEST MANAGEMENT PRACTICES SHALL BE INSPECTED AND MAINTAINED REGULARLY (ONCE A WEEK) AND AFTER EVERY STORM EVENT 2. LAND DISTURBANCE SHALL BE KEPT TO MINIMUM TO CONTROL RUNOFF FROM THE SITE 3. LIMIT LAND CLEARING AND RESTORE ALL GRADING AS SOON AS POSSIBLE 4. STAGED SEEDING TO RE-VEGITATE CUT AND FILL SLOPES AS THE WORK IS IN PROGRESS 5. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND OTHER EROSION 6. MAINTENANCE OF STREET: STREETS TO BE KEPT CLEAN AND FREE FROM DEBRIS. 7. CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. 8. A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE KEPT ON THE SITE DURING ALL CONSTRUCTION ACTIVITY	500 EAST
 BEST MANAGEMENT PRACTICE INDEX 1 IP INLET PROTECTION 2 WDA EQUIPMENT AND VEHICLE WASH DOWN AREA 3 SRE STABILIZED ROADWAY ENTRANCE 4 PT PORTABLE TOILET 5 D DUMPSTER LOCATION 6 SF SILT FENCE 7 CWM CONCRETE WASTE MANAGEMENT ADDITIONAL BMP's TO BE ONSITE: SPILL CLEANUP • VEHICLE & EQUIPMENT FUELING SEE SHEET C-8 FOR BMP DETAILS	CK QUACK SANTAQUIN SWPPP PLAN 78 n 500 E, Santaquin ut 8
R	SHEET: C-7 DATE: DATE: DATE: C-7

-. Feb 13, 2024

suari.	Symbol	Botanical Name	Common Name	Size	Remarks
- 1				0 0	
3		Crataegus crus-galli	Cockspur Hawthorn	2" Caliper 8'-10' Height	full Head Crou Straight Trunk
3		Koelreuteria p. 'Golden Candle	'Golden Rain Tree	2" Caliper 8'-10' Height	Full Head Crou Straight Trunk
٦		Pinus leucodermis heldreichii	Dwarf Bosnian Pine	6'-8' Height B f B	Full Throughou Specimen
2		Syringa reticulata 'Ivory Silk'	Japanese Tree Lilac	2" Caliper 8'-10' Height	Full Head Crou Straight Trunk
8	(*)	Zelcova serrata 'Musashino'	Musashino Zelcova	2" Caliper 10'-12' Height	Full Head Crou Straight Trunk
	Dlant	\mathbf{I}_{at} (CUDUDC)			
	Plant	LISI (SHKUDS)			
Quan.	Symbol	Botanical Name	Common Name	Size	Remarks
9	(M)	Berberis thund. 'Crimson Pygmy'	Crimson Pygmy Barberry	5 Gallon	15"-18" Height
9		Ligustrum X. Vicaryi	Golden Privet	5 Gallon	18"-24" Height
12	Winnur Z + E	Physocarpus o. 'Summer Wine'	Summer Wine Ninebark	5 Gallon	24"-30" Height
5	Jane -	Phus tubling 'Bailtigen'	Tigor Eucle Surge	5 Gallon	18"-24" Spread
11		Rrus typrina Dantiger	Freek Out Bed Bese	5 Gallon	
וו ס	En 3 int	Rosa Niock Out Rea	Kriock Out Red Rose	5 Gallon 5 Gallon	15" 12" Height
18	(+)	Spiraea japonica 'Neon Elash'	Neon Elash Spiraea	5 Gallon	15 - 18 Height
3	(+)	Suringa vulgaria	Common Lilac	5 Gallon	24"-30" Height
6	*	Yucca filam. 'Golden Sword'	Golden Sword Yucca	5 Gallon	15"-18" Height
	Plant	List (ORNAMENT	TAL GRASSES)		
	Sumbol	Botanical Name	Common Name	Size	Remarks
Quan.	<u> </u>				
Quan. 12		Calamagrostis a. 'Avalanche'	Avalanche Feather Grass	5 Gallon	18"-24" Height
Quan. 12 12		Calamagrostis a. 'Avalanche' Calamagrostis a. 'Foerster'	Avalanche Feather Grass Foerster Feather Grass	5 Gallon 5 Gallon	18"-24" Height 18"-24" Height
Quan. 12 12 2		Calamagrostis a. 'Avalanche' Calamagrostis a. 'Foerster' Miscanthus sinensis 'Gracillimus'	Avalanche Feather Grass Foerster Feather Grass Maiden Grass	5 Gallon 5 Gallon 5 Gallon	18"-24" Height 18"-24" Height 24"-30" Height
Quan. 12 12 2 28		Calamagrostis a. 'Avalanche' Calamagrostis a. 'Foerster' Miscanthus sinensis 'Gracillimus' Pennisetum alop. 'Hameln'	Avalanche Feather Grass Foerster Feather Grass Maiden Grass Hameln Fountain Grass	5 Gallon 5 Gallon 5 Gallon 5 Gallon	18"-24" Height 18"-24" Height 24"-30" Height 15"-18" Height
Quan. 12 12 28	Plant	Calamagrostis a. 'Avalanche' Calamagrostis a. 'Foerster' Miscanthus sinensis 'Gracillimus' Pennisetum alop. 'Hameln' List (PERENNIAL	Avalanche Feather Grass Foerster Feather Grass Maiden Grass Hameln Fountain Grass	5 Gallon 5 Gallon 5 Gallon 5 Gallon	18"-24" Height 18"-24" Height 24"-30" Height 15"-18" Height
Quan. 12 12 28 Quan.	Plant Symbol	Calamagrostis a. 'Avalanche' Calamagrostis a. 'Foerster' Miscanthus sinensis 'Gracillimus' Pennisetum alop. 'Hameln' List (PERENNIAL Botanical Name	Avalanche Feather Grass Foerster Feather Grass Maiden Grass Hameln Fountain Grass (S) Common Name	5 Gallon 5 Gallon 5 Gallon 5 Gallon Síze	18"-24" Height 18"-24" Height 24"-30" Height 15"-18" Height Remarks
Quan. 12 12 28 Quan.	Plant Symbol	Calamagrostis a. 'Avalanche' Calamagrostis a. 'Foerster' Miscanthus sinensis 'Gracillimus' Pennisetum alop. 'Hameln' List (PERENNIAL Botanical Name Hemerocallis 'Stella d'Oro'	Avalanche Feather Grass Foerster Feather Grass Maiden Grass Hameln Fountain Grass (S) Common Name Stella d'Oro Day Lily	5 Gallon 5 Gallon 5 Gallon 5 Gallon Síze 1 Gallon	18"-24" Height 18"-24" Height 24"-30" Height 15"-18" Height Remarks Full Can
Quan. 12 12 28 Quan. 12 30	Plant Symbol	Calamagrostis a. 'Avalanche' Calamagrostis a. 'Foerster' Miscanthus sinensis 'Gracillimus' Pennisetum alop. 'Hameln' List (PERENNIAL Botanical Name Hemerocallis 'Stella d'Oro' Lavandula 'Hidcote Blue'	Avalanche Feather Grass Foerster Feather Grass Maiden Grass Hameln Fountain Grass (S) Common Name Stella d'Oro Day Lily Blue Lavender	5 Gallon 5 Gallon 5 Gallon 5 Gallon Síze 1 Gallon 1 Gallon	18"-24" Height 18"-24" Height 24"-30" Height 15"-18" Height Remarks Full Can Full Can
Quan. 12 12 28 Quan. 12 30 40	Plant Symbol (2) (3)	Calamagrostis a. 'Avalanche' Calamagrostis a. 'Foerster' Miscanthus sinensis 'Gracillimus' Pennisetum alop. 'Hameln' List (PERENNIAL Botanical Name Hemerocallis 'Stella d'Oro' Lavandula 'Hidcote Blue' Salvia 'East Friesland'	Avalanche Feather Grass Foerster Feather Grass Maiden Grass Hameln Fountain Grass AS) Common Name Stella d'Oro Day Lily Blue Lavender East Friesland Sage	5 Gallon 5 Gallon 5 Gallon 5 Gallon 5 Gallon 1 Gallon 1 Gallon 1 Gallon	18"-24" Height 18"-24" Height 24"-30" Height 15"-18" Height Remarks Full Can Full Can Full Can

- All lawn and shrub areas shall receive a 4 inch depth of topsoil. If topsoil is not available at the site, it must be imported from an approved local source. All topsoil shall be of a sandy loam consistency. Provide a chemical analysis of all topsoil for approval.
- 2. Prior to placement of topsoil, all subgrade areas shall be loosened by scarifying the soil to a depth of 6 inches, by the use of mechanical means, in order to create a transition layer between existing and new soils. 3. All plant material holes shall be dug twice the diameter of the rootball and 6 inches deeper. Excavated
- material shall be removed from the site. 4. Plant backfill mixture shall be composed of 3 parts topsoil to 1 part humus additive (Soil Pep/or equal),
- and shall be rotary mixed on-site prior to installation. 5. Plant fertilizer shall be 'Agriform' brand 21 gram tablets used as per manufacturers recommendations. 6. Upon completion of planting operations, all shrub pits and tree wells shall receive a 4 inch depth of shredded bark mulch mixture as a cover. The overall shrub beds themselves (beyond plant wells) shall receive a
- 4" depth of decorative stone surfacing over Pro-5 weed barrier fabric. 7. In decorative stone beds, cut the fabric from around the water well of each plant, then apply fine ground bark inside water well. The remainder of the planter bed shall receive the depth of decorative stone.
- 8. Landscape maintenance shall be required for a period through the second mowing of the lawn (if used) and shall include weeding, pruning and one fertilization.
- 9. The contractor shall comply with all warranties and guarantees set forth by the Owner, and in no case shall that period be less than two years following the date of completion and final acceptance.

General Notes

- All bidding landscape contractors shall have a minimum of 5 years experience in the installation of commercial landscape and irrigation projects, and be able to supply the necesarry staff to perform all tasks associated with these drawings, and in a professional and timely manner.
- 2. The landscape contractor, at all times, shall have personnel on-site experienced in being able to interpret the drawings correctly, and accurately measure the design layout using the specified scale. 3. The contractor shall verify the exact location of all existing and proposed utilities, and all site conditions
- prior to beginning work. The contractor shall coordinate his work with the project manager and all other contractors working on the site. 4. The finish grade of all planting areas shall be smooth, even and consistent, free of any humps, depressions or
- other grading irregularities. The finish grade of all landscape areas shall be graded consistently 1/2" below all walks, curbs, etc.
- 5. The contractor shall provide all materials, labor and equipment required for the proper completion of all landscape work as specified and shown on the drawings. 6. All plant materials shall be approved prior to planting. The Owner/Landscape Architect has the right to re-
- ject any and all plant material not conforming to the specifications. 7. The contractor shall plant all plants per the planting details, stake/guy as shown. The top of the rootballs shall be planted flush with the finish grade.

Sub-Grade Requirements

- 1. LAWN AREAS : Six (6) inches below finish grade. This will allow for the installation of a four inch depth
- of topsoil, along with the sodding material, leaving it slightly below finish grade. 2. SHRUB AREAS : Eight (8) inches below finish grade. This will allow for the installation of a four inch depth of topsoil, along with a four inch depth of bark mulch or decorative stone, leaving it slightly below finish
- grade and concrete areas. 3. ROCK ONLY AREAS : Seven (7) inches below finish grade. This will allow for the installation of a six inch depth of decorative stone over the weed barrier fabric, leaving it slightly below finish grade and concrete areas
- 4. SUB-GRADE COORDINATION : The Landscape contractor shall meet early on in the construction process with the site grading contractor, in order to ensure that all sub-grades, prior to final topsoil placement, are provided. Any discrepencies or questions shall be discussed and resolved at that time. Landscape operations shall not begin until the specified sub-grade elevations have been provided.

Legend

Symbol	Description	Remarks
	Landscape Boulder / 3'-4' Min. Size / Individually Placed	Boulder Type And Color Shall Be From Nearest Local Source, Blonde-Tan Colored Quartzite, Block Edges (Not Rounded).
	4" x 6" Extruded Concrete Mowstrip / Natural Color	Install In Straight True Lines And Uniform Curves, 4 Between All Lawn And Shrub Areas. Compact Sub-grade To 90% Prior To Installation.
LAUN	New Lawn Area / Water Conservative Mixture	Install in Areas Shown Over A 4 Inch Depth Of Import Topsoil. Top Of Lawn To Be I Inch Below Finish Grade Of Concrete Surfaces.
R	Rock ONLY Area / Cobble / 4" Minus Size / "Nephi Gray"	Install In Areas Shown To A Depth Of 6 Inches Over "DeWitt" Brand Weed Barrier Fabric. Provide Pre-emergent Herbicide Application.
R 2	New Shrub - Rock Area / 2" Min. Size / Grayish Color	Install in Areas Shown To A Depth Of 4 Inches Over "DeWitt" Brand Weed Barrier Fabric. Provide Pre-emergent Herbicide Application.
No Hatch	New Shrub - Rock Area / I" Min. Size / Earthtone Color	Install in Areas Shown To A Depth Of 4 Inches Over "DeWitt" Brand Weed Barrier Fabric. Provide Pre-emergent Herbicide Application.

	[†] 0.0	[†] 0.0	[†] 0.0	ð.1 ð.:	.1 0.1	[†] 0,2	0.3	0.5	1.1	1.4	1.5 <u>1</u> .	.3 0.8	3 0.5	p.3	[†] 0,2	[†] 0.2	[†] 0.1	[†] 0.1	[†] 0.2	[†] 0.2	ō.2 ō.	2 0.1	[†] 0.1	[†] 0.1	[†] 0.1	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	ō.o ō	.0 0,0
	[†] 0.0	[†] 0.0	⁺ 0.1	ð.1 ð.1	> 1 0.2	<u>0.3</u>	⁺ 0.5	[†] 0,9	1.8	⁺ 3.5 ⁺	±3.9 ±2	2.2 1.3	3 [†] .8	3 [†] 0.6	[†] 0,5	⁺ 0.4	[†] 0.3	0,3	⁺ 0.3	†0.4	[†] 0.4 [†] 0.	3 [†] 0.2	÷0.2	⁺ 0.1	⁺ 0.1	[†] о.Ф	D .0	⁺ 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	• 0.0 0	.0 0.0
	[†] 0.1	⁺ 0.1	[†] 0.1	b.1 (0.1	/ .1 [†] 0.3/	ō.6	1.2	⁺ 2.1	*3.2	5.1 t	±.5 ⁺ 3	3.9 ⁺ 2.8	ц в [†] 2.0	1.5	1.0	[†] 0.9	[†] 0.8	[†] 0.8	[†] 0.8	[†] 0.8	[†] 0.8 [†] 0.	6 [†] 0.4	[†] .2	[†] 0.1	[†] 0.1	t.1	 p.o	[†] 0.0	Ō.0	[†] 0.0	[†] 0.0	ō.o ō	.0 0.0
	[†] 0.1	[†] 0.1	[†] 0.1	ð.1 ð.i	.2 0.4	ō.9	⁺ 2.0	⁺ 4.0	+ - -1	ŧ8.1	8.4 6	5.9 5.3	3 [†] 3.8	3 2,9	2.3	±2,0	+ <u>2,0</u>	1.9	1.9	1,9	i.s i.ı	0 [†] 0.6	Ō.3	[†] 0.2	[†] 0.1	[†] 0.1	D .0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	to.o to	.0 [†] 0.0
	[†] 0.1	[†] 0.1	ħ.e X	h.e tu	3 ħ6	1.3	2.6	+4.8	,	⁺ 7.3 ⁺	[†] .4 [†]	7.4 6 .5		□ 3 ⁺ 4.8	4.3	⁺ 4.0	⁺ 4.2	+, 9	+3.9	⁺ 3.5	t. 4 1.	4 [†] 0.7	ħ.3	ħ.2	[†] 0.1	[†] 0.1	D .0	[†] 0.0	ħ.0	[†] 0.0	ħ .0	ħ.o ħ	.0 [†] .0
	÷	÷	*			t _	±.0	t	+	+ + +				±	t	+	+	+	+	5.5 t	t	- 0.,,	÷	÷	÷	+		÷	+	÷	÷	5.0 0 5.0 5	- +
	U.1	U.2	0.3	0.4	.6 1.0	1.7	3.0	2.0	6.3		6,6 6	<u> </u>	/ 6,4	+ 7.0	7.0	6.9		6.8	Ъ. 4	5.5	3.2		U,3	U.1	0.1	U	0.0	U.U	0.0	U.U	0.0	U.U U	J U.U
	0.2	б.з	/ 0.4 1	0.7 1.2	2	<u></u>	3.2	4.1	4.8	5.0	5.1 5	5.2 5.5	5 6.4	\$ 8.1	5.d	μo β	11.1	10.0	8.4	6.6	3.7 1.	Ž 0.7	<u>0</u> .3	0.1	Ō.1	0.1	0.0	0.0	Ō.O	Ō.O	0.0	δ.ο δ	0 0.0
	[†] 0.2	[†] 0.4	0,6	1.2 [*] 2.		110 B.5	⁺ 4,2	* 3.2	2.9	*2 .8 *	* 2 .833	3,5	€ 5.6	5 \$.1	⁵ я.5	12.8		- 12.6	† 4 .0	Ť.2 ·	⁺ 4.0 ⁺ 1.5	8 0.7	[†] 0.3	[†] 0.1	[†] 0.1	[†] 0.1	b .o	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	ō.o ō	0 [†] .0
	[†] 0.З	ō.5/	0,9	2.0 5.	.4 ^{13.4} ¹⁸	3.9 18.6 13.0 4.9 24.4 165	Ď ^{€.8}	⁺ 3.1	1.9	1. <u>5</u>	<u>1.5 1</u> .	.8 2.5	€ 4,9		J .1		12.4	11.9	[†] 9.7	⁺ 7.8	*4.4 [*] 2.	0 0.8	Ō.3	[†] 0.2	[†] 0.1	⁺ 0.1	0.0	[†] 0.0	Ō.0	[†] 0.0	[†] 0.0	to.o to	0 0.0
	[†] 0.4	ō/6		2,6	.3 18.8 20 18.2 25	6.7 ² 6.1 ¹ 7.8 5.5 ² 4.9/ 1772	⁺ 8.6	*3.2	ŧ.Z	1.2 1	i.2 i.	.5 2.4	4 ⁺ 4.2	2 655	*7. #			10.0	11.5	10.0	ŧ5.1 ².	2 [†] 0.9	[†] 0.4	[†] 0.2	[†] 0.1	Ō.1	0.1	[†] 0.0	[†] 0.0	[†] 0.0	⁺ 0.0	ō.o ō	0 0.0
	⁺ 0.4	0.7	† 1,β	2.8 [†] .	.3	e.6 22.1 15.9	+0.3	*3.3	1.8	1.5 1	1.6 1.	.9	3 [†] 0.7	,				↓ 1.0	16.0 18.4	15.3 10 16.9 10.5 16	5.2 5.9 2. 5.3 5.9	5 1.1	[†] 0.5	[†] 0.2	[†] 0.1	[†] 0.1	t 0.1	[†] 0.0	[†] 0.0	[†] 0.0	0.0	ŧ.o ŧ	.0 0,0
	[†] 0.4	0.7	1.3	2.8 [†] .	,2	2.9 22.4 15.8 3.4 22.8/ 15/9	⁺ 8.2	* 3.4	÷2.2	+2.4	ь) 1.1					<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	13.5 16.5	<u>13.7</u> 5 t	5.8 5.8 + 2,	6 1.3	⁺ 0.6	[†] 0.3	[†] 0.2	[†] 0.1	0.1	[†] 0.1	[†] 0.0	[†] 0.0	[†] 0.0	ō.o ō	.0 [†] 0.0
	ō.5	[†] 0.7	13	2.8 [†] .	.1	1.7' 21.2 <u>15.8</u> 2.6 22.1 15.6	 *8.2	* 3.6	⁺ 2.7	+4.3 th	3 16.0 15.8	4,7	7 1.6						4.5	• 6.1		1 1.8	⁺ 0,8	⁺ 0.4	[†] 0.3	[†] .2	0 .1	⁺ 0.1	[†] 0.0	[†] 0.0	⁺ 0.0	ŧ.o to	.0 0.0
	ō.5	[†] .8	1.4	2.8 [†] 7.	.1 16.6 2:	3.1 22.6 1373	+8.2	+ 3.8	+3.2	+ 6,0 +	.9 20.0 19.8		1.2				0.8	5'5 	*3.9	±.6	ŧ5.5 ⁺ 4.	5 [‡] 2.7	1.1	[†] 0.6	[†] 0.4	[†] .З	t 0.1	[†] 0.1	Ō.1	[†] 0.0	[†] 0.0	• 0.0 •	.0 0.0
	ō.5	[†] .8	14	2.8 [†] .	16.4 20	2.5 22.0 15.5 3.1 22.6 158	⁺ 8,3	⁺ 3.9	⁺ 3,6	+6,8	.5 20.0 19.X	2 149 +			ľ		5 [†] .8	*2,2	4,2	+6,2	+ 6,8 +	4 3.8	÷.0	1.2	[†] 0,6	ō,3	to.2	[†] 0,1	ō.1	[†] 0.0	[†] 0.0	ŧ.o ŧ	.0 0.0
	÷ 5	ħ 0	† 4 · ·	50 ⁵	1	1.6 21.1 15.2 2.5 22.0 15.6		⁺ 4 0	* 7	t 0	.1 22.7 22.4				ŕ		to	÷.	+ 2	*	— 40 4	a to	÷с	† <i>C</i>	to 7	t c	t a	†n 1	ħ1	ħο	το	tan ta	0 to
	t	t	+	L.O /.	16.6 2:	3.1 22.6 1379	+) -	+	+	t 16.	.e že.s že.o .4 že. s ž e.7.	0 155 7/ 156 +							+	+	+ +.		- +	+ .	t	+	t	÷	+	+	t	t. t	
	0.5	0.8	1.4	2.8 7.	1 16.4 22	2.5 22.1 15.6		4.1		1 <u>15.</u>	.8 <u>21.4</u> 21.4						0.8	2.1	4.3	- <u>-</u>	/.0 8.	1 <u>5</u> .F	4.1	1.6	0.7	0.3	0.2	0.1	0.1	0.0	0.0	0.0 0	0.0
	Ō.5	Ō.8	1.4	2.8 [†] .	.1	3.1 22.6 1379 	*8.4	4.1	⁺ 3.9	16. 16.	.5 23.1 22.8, 0 21.6 21.8		в				0.9	2.1	4.2	6.1	⁺ 6.8 ⁺ 6.	6 3.9	⁻ 2.3	1.4	[†] 0.6	ō.3	ō.2	Ō.1	Ō.1	Ō.O	Ō.0 7	ō.o ō	0 [†] .0
	ō.5	[†] .8	1.4	2.8 [†] .	.1 16.4 22	2.5 22.1 15.7 3.8 22.7/ 1579	⁺ 8.3	4.1	* 3.8	16.	.3 22.4 22.1	+ 1 156 8	3		Ý		1.0 •	÷.0	⁺ 3.7	5.2	±5.3 ⁺ 4.	7 2.8	1.2	[†] 0.7	[†] 0.5	[†] .З	Ō.1	[†] 0.1	Ō.1	[†] 0.0	[†] 0.0	ō.o ō	0 0.0
	ō.5	[†] 0.8	1.4	2.8 [†] .	.1	1.6 21.2 15 <u>3</u> 2.6 22.1 156	_ ,3	⁺ 4.1	* 3.8	¹ 5.	.8 21.4 21.8		-				1.0	1.9	[*] 2.9	3.5	*3.3 [*] 2.	8 1.7	[†] 0.6	[†] 0.4	[†] 0.3	[†] 0.2	Ō.1	[†] 0.1	Ō.1	[†] 0.0	[†] 0.0	to.o to	0 0.0
	[†] 0.5	[†] 0.8	1.4	2,8 [†] .	.1	3.1 22.5 158 	[†] 8.3	* 4.0	⁺ 3.7	⁺ 7.0 1 6.	.0 \$2.1 \$1.8 .1 \$2.6 \$2.3.	* 154 ************************************					1 .1	1.8	⁺ 2.4	÷2,6	ŧ2.4 1.1	9 1.2	[†] 0.6	[†] 0.3	[†] 0.2	[†] 0.2	[†] 0.1	[†] 0.1	[†] 0.1	[†] 0.0	⁺ 0.0	ō.o ō	0 [†] 0.0
	ō.5	[†] 0.7	1.3	2.8 [†] .	.0 16.3 20	2.3 21.9 155	*8.2	* 3.8	*3.4	+6.4 14.	<u>.0 20.5 20.2</u> .5 20.3 20.1	<u>014</u> t41					1.1	1.8	2.6	*3.1	*2.8 [*] 2.	.3 1.4	[†] 0.6	[†] 0.4	⁺ 0.2	[†] 0.2	Ō.1	[†] 0.1	Ō.1	[†] 0.0	⁺ 0.0	ō.o ō	0 0.0
	[†] 0.4	ō.7	1.3	ž.8 [†] .		1.4 21.0 151	, 0.8	3 .6	⁺ 3.6	ts.	.2 19.0 18.8, 7 13.1 13.0(1.0	*2.0		- + 4,6		0 [‡] 2.3	[†] 0.9	[†] 0.5	⁺ 0.4	[†] 0.2	[†] 0.1	[†] 0.1	[†] 0.1	[†] 0.0	[†] 0.0	ŧ.o to	.0 0.0
	[†] 0.4	[†] 0.7	1.3	±2,7 €,	,9	2.3 21.8 154 2.9 22.4/ 155	⁺ 8.0	√ [†] 3.4	⊔ 2.4	[†] 3.0 ^t	5.1 6	5.2 4.3	3 ¹ .9				to.9	*2. <u>1</u>	4.1	÷6,0	* 6,4 6.	1 3.6	1.8	1.1	[†] 0.5	[†] .З	ō.2	[†] 0.1	Ō.1	[†] 0.0	[†] 0.0	ō.o ō	.0 0.0
	[†] 0.4	[†] 0.6	1.2	±2,6 ⁺ 6,	.7 15.9 2a	1.2 20.7 149 2.0 21.5 151) †7	⁺ 3.2	⁺ 2.1	+2.	2.8 +4	,1 5 ,4	4 [†] 3.9	9 1.9	1.0 ₀		1.1	÷2.2	4.3	- ⁺ 6,2	*6.9 *7.	8 ⁵ .0	⁺ 3,5	1 .6	[†] 0.6	ō.3	ō.2	[†] 0.1	Ō.1	[†] 0.0	[†] 0.0	ō.o ō	.0 0.0
	ō.3	[†] 0.6	1.0	±2,3 €,	,2 15.9 20	2.4 21.8 150 	±,1	±2,9	⁺ 2.1	⁺ 2.7 (⁺	4.0 5	<u>)</u> 5.2 6 .7	0 3 5.5	5 ⁺ 4,2	^{2.5}	1.5	1.2	[‡] 2.2	4.3	÷6,3	⁺.0 ⁺ 8.	0 <u>5</u> .6	- 4.1	1 .6	[†] 0.6	ō.3	ō.2	[†] 0.1	Ō.1	[†] 0.0	[†] 0.0	ō.0 ō	.0 0.0
Pole to be used for flag pole light		-\$.5	t.9 -	1.8 [±] .	.0 12.6 18	0.1 19.6 13.4 3.3 17.8∕ 11⁄9	ŧ.7	⁺ 2.5	±2,3	[†] 3.4 [†]	5.4 7	7.2 ^{\$} .2	2 7.7	7 [†] 6.1	⁺ 4.0	[‡] 2,2	1.5	[‡] 2,2	4.2	+ 6.1	* 6.7 [*] 6.	.6 *3.9	÷2,3	† .4	[†] 0.6	[†] 0.З	ō.2	[†] 0.1	[†] 0.1	[†] 0.0	[†] 0.0	ťo.o ťo	.0 0.0
	ħ.2	* .4		te te	6 55	.9 11.7 18.18	ta n	1.8	ta a	¹ 3.7 ¹	5.7 k	<		3 63	4.4	26	1.7	ta a		- 52	 5.3 ⁺ 4	k 2.7	// †.1	ħ.z	† 1 4	ħ. 2 -1	ħ.1	Ťn 1	ا ħn	ħ.o	ħο	ħn ħ	.n ħ.n
	th c	to 2		t			10	t D	±	to state to the state of the st	to t				+4.0	5.0	±	1.0	5.0	t	to 1 to 1			t. 0	t	5.2		to 1	t. o	t. o	t. 0	to to	o to
	U.∟ +	t. c		5., 5., 5., 5., 5., 5., 5., 5., 5., 5.,	- + -	1.0	+	t. e	t	++	5.5 0 				+,S	±	1.0 t		±	S.C	tt		t. e	t	±.	t		+	t	t. c	t.o	t. t	5 0,0
		0.2		U,4 U,	.5 0.6	0,6	70.7	1.0	1.6	2,6	3.4 3	3.8 3.5		3.6	3,U	2,1	-1.6		1.6	1.6		2U, /		0.2	0.1	U.1	0,1	U.1	0.0	0.0	U.U I	U.U U	J U.U
	Ō.1	Ō.1	Ð.2	ō.2 ō.:	.2 0.3	Ū.3	Đ.5	Ō.7	1.1	1.5 1	1.7 ¹ .	.8 1.8	3 1.8	1.8	1.7	1.4	1.1	Ō.9	D .9	0.7	b.6 b.	4 0.3	<u>0</u> .5	Ō.1	Ū.1	Ō.1	Ō.0	Ō.0	Ō.O	Ō.O	Ō.0	ō.o ō	0 0.0
	Ō.1	Ō.1	0 .1	້ວ.1 ້ວ.:	.1 0.2	[†] 0.2	[†] 0.3	[†] 0.5	Ō.6	ð.7 t	b.7 to.	1.7 [†] 0.6	5 0.7	, [†] 0.8	⁺ 0.8	[†] 0.8	[†] 0.7	⁺ 0.6	⁺ 0.4	[†] 0.3	ō.з ō.	2 [†] 0.1	[†] 0.1	[†] 0.1	[†] 0.0	[†] 0.0	ō.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	ō.o ō	0.0
	0.1	0.1	0.1	0,1 0,:	1 0.1	0 .1	0 .2	<u> </u> 0.3	0 .3	- 6.3 - t	6.3 t o.	1.3 <u></u> .2	<u>2</u> 0.3	3 0 .3	0.4	⁺ 0.4	⁺ 0.4	0 .3	<u>0,2</u>		t <mark>0.1 t0.</mark>	1 0.1	0.1	* 0.0	0.0	0.0	0.0	[†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	ō.o ō	0 0.0
	ŧ.0	<u>ð.1</u>	. 1	b.1 b.	1 0.1	ō.1	0.1	<u>to.2</u>	<u>.</u> 2	<u>†0.2 t</u>	<u>0.1 </u> 0.	0.1 0.1	[†] 0.1		<u>0,2</u>	<u>,5</u>	0.2	<u>0.2</u>	0.1	<u>0,1</u>	<u>ō.1 ō.</u>	<u>1 [†]0.0</u>	0.0	[†] 0.0	[†] 0.0	<u>ō.o</u>	†0.0	[†] 0.0	<u>†</u> .0	[†] 0.0	⁺ 0.0	ō.o ō	0.0
	Ō.0	[†] 0.0	[†] 0.0	ō.o ō.:	1 0.1	[†] 0.1	[†] 0.1	0.1	Ō.1	Ō.1 Č	Ď.1 Ō.	0.1 [†] 0.1	Ō.1	[†] 0.1	Ō.1	[†] 0.1	[†] 0.1	Ō.1	Ō.1	[†] 0.1	ō.1 ō.	0 [†] 0.0	[†] 0.0	[†] 0.0	[†] 0.0	ħ,¢	[†] 0.0	[†] 0.0	Ō.0	[†] 0.0	Ō.0	ō.o ō	0 0.0

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.

2							
	СаlсТуре	Units	Avg	Max	Min	Avg/Min	Max/Min
	Illuminance	Fc	11.12	20,9	3,8	2.93	5,50
1	Illuminance	Fc	17,38	23,1	6,9	2.52	3.35
2	Illuminance	Fc	18.47	26.7	8,3	2.23	3,22
	Illuminance	Fc	4.74	12.8	1.0	4.74	12.80

Qty 4

Label

SF2b

F11

SF

Arrangement SINGLE SINGLE D180°

Description

VT3204HUNV50 (FIXTURE SUPPLIED BY HERMITAGE) MRS-LED-18L-SIL-FT-50-70CRI-SINGLE MRS-LED-18L-SIL-FT-50-70CRI-D180

Mounting Height 12′ 16' POLE+2' BASE 16' POLE+2' BASE LLD 1.000 1.000 1,000

NDTE:STANDARD 120-277v UNLESS DTHERWISE SPECIFIED

LLF Arr. Lum. Lumens 6778 1.000 1,000 16890 1.000 33780

Arr. Watts 51.95 135 270

Total Project Watts_1 Total Watts = 1900.95

LIGHTING PROPOSAL LO-159445 QUICK QUACK 78 N 500 E SANTAQUIN,UT BY:SAM DATE:1/11/24 SCALE: 1″=16′

Item 1.

SHEET 1 REV: DF 1

GENERAL NOTES:

1. THE DEVELOPER AND THE GENERAL CONTRACTOR UNDERSTAND THAT IT IS HIS/HER RESPONSIBILITY TO ENSURE THAT ALL IMPROVEMENTS INSTALLED WITH THIS DEVELOPMENT ARE CONSTRUCTED IN FULL COMPLIANCE WITH ALL STATE AND SANTAQUIN CIY CODES, ORDINANCES AND STANDARDS. THESE PLANS ARE NOT ALL INCLUSIVE OF ALL MINIMUM CODES, ORDINANCES AND STANDARDS. THIS FACT DOES NOT RELIEVE THE DEVELOPER OR GENERAL CONTRACTOR FROM FULL COMPLIANCE WITH ALL MINIMUM STATE AND SANTAQUIN CITY CODES, ORDINANCES AND STANDARDS.

2. ALL RECOMMENDATIONS MADE IN A PERTINENT GEOTECHNICAL REPORT/STUDY SHALL BE FOLLOWED EXPLICITLY DURING CONSTRUCTION OF BUILDINGS AND SITE IMPROVEMENTS.

3. FEMA FLOODPLAIN: SITE IS LOCATED IN UNMAPPED AREA. 4. THE PROPOSED OFFICE WAREHOUSE WILL NOT BE FIRE SPRINKLED.

NOTES TO CONTRACTOR

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING CURB & GUTTER, STORM DRAIN, & SEWER ELEVATIONS OR INVERTS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER WHEN ELEVATIONS OR INVERTS DO NOT MATCH PLANS. 2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE AND ALL UNDERGROUND UTILITIES, WHETHER OR NOT SUCH FACILITIES ARE SHOWN ON THESE PLANS.

the official plat therof on file and of record in the Utah County Recorder's Office. also, a portion of parcel 32:009:0101, more particularly described as follows:

North 0°57'11" East 378.10 feet to the point of beginning.

Quarter Corner of said Section 3 to the Northwest Corner of said Section 3)

Area = 94,628 sq ft or 2.172 Acres

SURVEYOR:

BOUNDARY DESCRIPTION

- Lots 3 and 4, Santaquin Peaks Industrial Park, Santaquin, Utah County, Utah, according to
- Beginning at a point located South 1624.13 feet and East 316.56 feet from the North Quarter Corner of Section 3, Township 10 South, Range 1 East, Salt Lake Base and Meridian; thence along the arc of a 15.00 foot radius curve to the right 23.77 feet through a central angle of 90°48'27" (chord bears North 46°21'25" East 21.36 feet); thence South 88°14'22" East 232.30 feet; thence South 2°41'29" West along the westerly right-of-way line of Summit Ridge Parkway a distance of 394.99 feet; thence North 87°35'11" West 234.57 feet; thence
- Basis of Bearing being South 89°30'24" West along section line 2649.05 feet from the North

SHEET INDEX c1 cover sheet c2 site plan c3 utility plan c4 grading & drainage plan
C1 COVER SHEET C2 SITE PLAN C3 UTILITY PLAN C4 GRADING & DRAINAGE PLAN
C2 SITE PLAN C3 UTILITY PLAN C4 GRADING & DRAINAGE PLAN
C3 UTILITY PLAN C4 GRADING & DRAINAGE PLAN
C4 GRADING & DRAINAGE PLAN
C5 EROSION CONTROL PLAN
C6 DETAIL SHEET
C7 DETAIL SHEET

	BENCH MARK			REVISIONS	
		Rev.	Date	Description	-
	NORTH QUARTER CORNER, SECTION 3.				<u> </u>
ENGINEERING	TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE AND MERIDIAN				
80 W. AMERICAN FORK, UT. 84003 ztecengineering@gmail.com	ELEVATION = 4851.13				
					1

<u>ABBR</u>	<u>EVIATION TABLE</u>
FFE	FINISHED FLOOR ELEV.
BOW	BACK OF WALK
GB	GRADE BREAK
TC	TOP OF CONCRETE
TBC	TOP BACK OF CURB
TA	TOP OF ASPHALT
EA	EDGE OF ASPHALT
RIM	RIM ELEVATION
FL	FLOWLINE
EG	EXIST GROUND
FG	FINISHED GRADE
TW	TOP OF WALL
BW	BOTTOM OF WALL
SF	SQUARE FOOTAGE
P.U.E.	PUBLIC UTILITY EASEMENT
SLB&M	SALT LAKE BASE & MERIDIAN
COR	CORNER
Ν	NORTH
S	SOUTH
E	EAST
W	WEST
P.I.	PRESSURIZED IRRIGATION
SS	SANITARY SEWER
SD	STORM DRAIN
Т	TOWNSHIP
R	RANGE
RCP	REINFORCED CONCRETE PIPE
WM	WATER METER
CB	CATCH BASIN
SDMH	STORM DRAIN MANHOLE
SSMH	SANITARY SEWER MANHOLE
FH	FIRE HYDRANT
L.F.	LINEAR FEET
S=%	SLOPE
IE	INVERT ELEVATION
C.O.	CLEAN OUT
SL	SEWER LATERAL

CC CALLAWAY Developer: Rob Weber 77 N. SUMMIT RIDGE PKWY UTAH SANTAQUIN Phone: 801-360-1039 Drawn by: Scale: D.W.P. NTS EX CE Designed by: Date: **COVER SHEET** 03/13/24 D.W.P. ENGINEERING David W. Peterson, P.E., License #270393 Checked by: 12 West 100 North. Suite 201C. American Fork, UT 84003 C1 D.W.P. P: (801) 756-4504; david@excelcivil.com

ltem 2.

RB & 10' TRAIL INSTALLED W/ SUBDIVISION					
	<u> </u>		•		
PROPOSED 26' CROSS A ROADBASE AREA	CCESS EASEMENT			· · · · · ·	· _ · _ · _ · _ · _ · _ · _ · _ · _ ·
-LINK FENCE WITH PRIVACY SLATS		- 			
-LINK FENCE WITH PRIVACY SLATS		ļ			
ROADBASE AREA			i		
			j PROPOSE	D EDGE OF GRAVEL	
169.0'			 		
INSTALL & VINYL COATED CHAIN LIN					
INSTALL 6 VINTE COATED CHAIN-LIN	K FENCE WITH PRIVAC		1 1 1		
				LOT 6	
WATER WAT		87.3	ح	82:009:010	1
	EXIST 5 P.U.E. —				
RUADBASE AREA					
COATED CHAIN-LINK FENCE WITH PRIVACY SLATS			PROPOSEI) EDGE OF GRAVEL	
NSTALL (2) 25' SLIDING	GATES				
	T 10' P.U.E.			· · · · · ·	· · · · · · · · _
	LANDSCAPE		· · · · · · · ·		- · · · · · · · · ·
			=======	=======	===========
INSTALL DRIVE APPROACH					
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INT 8		01	1		
			®		L01 /
		Know what's be Call before	e low. re you dig.		
Developer: Rob Weber		CCC	ALL	AWA	Y
Phone: 801-360-1039	SANTAQU Drawn by:	IN 77 N. S	SUMMIT RIE	OGE PKWY	UTAH Scale:
EXCEL	D.W.P.	C	ΙΤΓ ΟΙ	ΔN	1"=20'
ENGINEERING David W. Peterson, P.E., License #270393 2 West 100 North, Suite 201C, American Fork, UT 84003 P: (801) 756-4504; david@excelcivil.com	D.W.P. Checked by: D.W.P.	3	IIL L	(/~ \1N	C2

PAVEMENT DESIGN
4" HOT MIX ASPHALT (1/2 INCH PG 64–34)
6" UNTREATED BASE COARSE
12" GRANULAR BORROW
*SEE GEOTECHNICAL STUDY PREPARED BY RB&G PREPARED ON 3/13/23 & ADDENDUM
PREPARED ON 5/10/23 FOR FULL DISCUSSION ON PAVEMENT DESIGN

BENCH MARK			REVISIONS	
	Rev.	Date	Description	
NORTH QUARTER CORNER, SECTION 3,				
TOWNSHIP 10 SOUTH, RANGE 1 EAST, SALT LAKE BASE AND MERIDIAN				
ELEVATION = 4851.13				10
				12

	IPG	BMP: Portable Toilets	РТ
CURB INLET	OBJECTIVES Housekeeping Practices Contain Waste Minimize Disturbed Areas Stabilize Disturbed Areas Protect Slopes/Channels Control Site Perimeter Control Internal Erosion 	CONTAINMENT EARTH BERW I'X1' CRAVEL PAD	OBJECTIVES Housekeeping Practices Contain Waste Minimize Disturbed Areas Stabilize Disturbed Areas Protect Slopes/Channels Control Site Perimeter Control Internal Erosion
vater runoff. t area is to be extending one foot cted based on soil er the filter fabric and ontrols.	Adapted from Salt Lake County BMP Fact Sheet TARGETED POLLUTANTS Sediment Nutrients Toxic Materials Oil & Grease Floatable Materials Other Waste	 DESCRIPTION: Temporary on-site sanitary facilities for construction personnel. APPLICATION: All sites with no permanent sanitary facilities or where permanent facility is too far from activities. INSTALLATION/APPLICATION CRITERIA: Locate portable toilets in convenient locations throughout the site. Prepare level, gravel surface and provide clear access to the toilets for servicing and for on-site personnel. Construct earth berm perimeter (See Earth Berm Barrier Information Sheet), control for spill/protection leak. Stake toilets to prevent them from tipping. 	Adapted from Salt Lake County BMP Fact Sheet TARGETED POLLUTANTS Sediment Nutrients Toxic Materials Oil & Grease Floatable Materials Other Waste
t a minimum of once in depth. ; is apparent.	High Impact Medium Impact Low or Unknown Impact IMPLEMENTATION REQUIREMENTS Capital Costs O&M Costs Maintenance	 No limitations. MAINTENANCE: Portable toilets should be maintained in good working order by licensed service with daily observation for leak detection. Regular waste collection should be arranged with licensed service. All waste should be deposited in sanitary sewer system for treatment with appropriate agency approval. 	High Impact Medium Impact Low or Unknown Impact IMPLEMENTATION REQUIREMENTS Capital Costs O&M Costs Maintenance
	□ Training ■ High ⊠ Medium □ Low		■ Training ■ High ⊠ Medium □ Low
E 1. 2. 3. 4. 5. 6. 7. V V V V V V V V V V V V V	ROSION CONTROL CONSTRUCT A SILT FENCE AS SH INSTALL A CONSTRUCTION ENTRA INSTALL CONCRETE WASH OUT AF INSTALL PORT "A" JON. SEE BMP CONSTRUCT STORM DRAIN FACILI' CONTRACTOR WILL BE RESPONSIB CONTRACTOR TO WATER SITE AT SWPPF CONTRACTOR TO WATER SITE AT SWPPF CONTRACTOR TO WATER SITE AT SWPPF CONTRACTOR PREVENTION TEMPLATE. ACKNOWLED ERAL NOTES: E DEVELOPER AND THE GENERAL CO EMENTS INSTALLED WITH THIS DEVE ORDINANCES AND STANDARDS. THI AND SANTAQUIN CITY CODES, ORDII RECOMMENDATIONS MADE IN A PEF RUCTION OF BUILDINGS AND SITE IM	PLAN NOTES: OWN ON PLAN. SEE BMP SF. NOE AS SHOWN ON THE PLAN PRIOR TO ANY GRADING ON THE SITE. SEE BMP SR REA. SEE BMP CWM PT TIES AND INSTALL INLET PROTECTION AFTER INSTALLATION. SEE BMP IPG. LE FOR THE IMPLEMENTATION AND MAINTENANCE OF BMP'S DURING CONSTRUCTION LEAST WEEKLY OR MORE FREQUENTLY AS NEEDED TO CONTROL DUST POLLUTION. PARTINE STREED TO PREPARE AND SUBMITT A COMPLETE STORM WATER PLAN BOOKLET WITH FULL DETAILS BASED ON THE EPA SWPPP STANDARD THIS BOOKLET WITH FULL DETAILS BASED ON THE EPA SWPPP STANDARD THIS BOOKLET INCLUDES A COPY OF THE NOTICE OF INTENT AND AN GEMENT LETTER OBTAINED FROM STATE AFTER APPLYING FOR AN NOI PERMIT. DNTRACTOR UNDERSTAND THAT IT IS HIS/HER RESPONSIBILITY TO ENSURE THAT AL LOPMENT ARE CONSTRUCTED IN FULL COMPLIANCE WITH ALL STATE AND SANTAQU ESE PLANS ARE NOT ALL INCLUSIVE OF ALL MINIMUM CODES, ORDINANCES AND E THE DEVELOPER OR GENERAL CONTRACTOR FROM FULL COMPLIANCE WITH ALL MI VANCES AND STANDARDS. RTINENT GEOTECHNICAL REPORT/STUDY SHALL BE FOLLOWED EXPLICITLY DURING PROVEMENTS.	L N CIY NIMUM
		REVISIONS Rev. Date Description	

Know what's below. Call before you dig.	Rev.	Date	Description	
Developer: Rob Weber			CC CALLAWAY	
Phone: 801-360-1039	SAN	ITAQL	IIN 77 N. SUMMIT RIDGE PKWY	UTAH
	Drawn b D.W	у: '.Р.		Scale: 1"=30'
	Designed by: D.W.P.		EROSION CONTROL PLAN	Date: 03/13/24
avid W. Peterson, P.E., License #270393 00 North, Suite 201C, American Fork, UT 84003 : (801) 756-4504; david@excelcivil.com	Checked D.W	і by: '.Р.		C5

Catholic	DRIVEWAY APPROACH WITH PARK STRIP	CAD DWGBL_dwgs_6-12.dgn
Sanaquin	SANTAQUIN CITY 275 WEST MAIN STREET	DRAWN BY: DSF DESIGN BY: NEB CHECKED BY: MLC ADOPTED DATE: 20 JUN 12

Developer: Rob Weber		C	C CALLAWAY	
Phone: 801-360-1039	SANTAQU	IN	77 N. SUMMIT RIDGE PKWY	UTAH
David W. Peterson, P.E., License #270393 West 100 North, Suite 201C, American Fork, UT 84003 P: (801) 756-4504; david@excelcivil.com	Drawn by: D.W.P. Designed by: D.W.P. Checked by: D.W.P.		DETAIL SHEET	Scale: NTS Date: 03/13/24 C6

SITE MATERIALS LEGEND (NOTE: SITE MATERIALS QUANTITIES ARE PROVIDED FOR CONT.) IN CASE OF DISCREPANCY, THE DRAWING SHALL TA

1 LANDSCAPE SYMBOL DESCRIPTION

1" MINUS GREY CRUSHED ROCK.

SUBMIT SAMPLES FOR LANDSCAPE ARCHITECT AND OWNER APPRC PROVIDE 3" DEPTH OF ROCK MULCH TOP DRESSING. SEE INORGAN LANDSCAPE NOTES FOR ADDITIONAL INFORMATION. SHEET LP-101

2-4" TAN CRUSHED ROCK.

SUBMIT SAMPLES FOR LANDSCAPE ARCHITECT AND OWNER APPRC PROVIDE 4" DEPTH OF ROCK MULCH TOP DRESSING. SEE INORGAN LANDSCAPE NOTES FOR ADDITIONAL INFORMATION. SHEET LP-10

2 HARDSCAPE SYMBOL DESCRIPTION

5" DEEP STEEL EDGING - INSTALL PER MANUFACTURER SPECIFICA

CC CALLAWAY 77 N. SUMMIT RIDGE PARKWAY SANTAQUIN, UTAH

CONVENIENCE AKE PRECEDENCE.)	P	LANT LI	EGEN	(NOTE: PL. IF YOU NE	ANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. IN CASE OF DIS EED HELP WITH A WATER AUDIT CONSULTATION, OR A PLANT MAIENTENAC	SCREPANCY, THE DR. CE SCHEDULE, CONT.	AWING SHALL TA ACT PKJ@PKJDES	.KE PRECEDENCE.) SIGNGROUP.COM)
		SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	<u>SIZE</u>
OVAL. NIC MULCH)1.	<u>QTY</u> 5,751 sf	CONIFERS	JV'T	4	Juniperus virginiana 'Taylor' Taylor Eastern Redcedar Te2; low water; 30' x 3', sun, Z4; Utah Lake water tolerant	B & B		6`
	15,028 sf	DECIDUOUS	S TREES					
OVAL. NIC MULCH)1.			CC'I	10	Crataegus crus-gali inermis Thornless Cockspur Hawthorn Td4; 25x25; AV 314; full to part sun; z3; Utah Lake water tolerant	B & B	2"Cal	
ATION.	<u>QTY</u> 176 lf	+	M'RS	7	Malus x `Raspberry Spear' Raspberry Spear Crabapple low; 20x8; sun; z4; Utah Lake water tolerant	B & B	2"Cal	
		o	M'SS	4	Malus x `Spring Snow` Spring Snow Crab Apple low; 25x22; sun; z4; Utah Lake water tolerant	B & B	2"Cal	
		\bigcirc	QR'A	3	Quercus robur x alba `JFS-KW1QX` TM Street Spire Oak Td4; 45x14; AV 176; sun; z4	B & B	2"Cal	
		SYMBOL	CODE	<u>QTY</u>	BOTANICAL / COMMON NAME	<u>CONT</u>		
		DECIDUOUS	S SHRUB	S				
		\bigcirc	AA'R	4	Amelanchier alnifolia 'Regent' Regent Serviceberry Sd2; 5x5; AV 50; sun to part shade; z2; Utah Lake water tolerant	5 gal		
		\bigcirc	AM'S	38	Aronia melanocarpa 'SMNAMPEM' Low Scape Snowfire TM Black Chokeberry Moderate water; 3-4' x 3-4'; sun to part shade; z3; Buddleia x 'SMNBDL'	5 gal		
		\bigcirc	B'PA	36	Pugster Amethyst Dwarf Butterfly Bush Sd3; 2x2; AV 12.5; sun; z5; Utah Lake water tolerant	5 gal		
		$\langle \cdot \rangle$	BT'B	26	Berberis thunbergii 'BailElla' Lambrusco™ Japanese Barberry	5 gal		
		$\langle \cdot \rangle$	CF'G	12	Caragana frutex `Globosa` Globe Peashrub Sd1; 5x5; AV28; sun to part sun; z2; Utah Lake water tolerant	5 gal		
		$\langle \cdot \rangle$	PB'P	15	Prunus besseyi POTIS 'Pawnee Buttes' Pawnee Buttes Sand Cherry Sd1; 1.5 x 6; AV19.5; sun; z4;	5 gal		
		EVERGREE	N SHRUE	S				
			JH'W	3	Juniperus horizontalis 'Wiltonii' Blue Rug Juniper 8" x 8'; low water; sun; z3; Utah Lake water tolerant	5 gal		
		<u>GRASSES</u>						
			M'ML	14	Miscanthus sinensis `Morning Light` Morning Light Maiden Grass Tw2; 5x4; AV 32; sun to light shade; z5; Utah Lake water tolerant Panjour vigratum `Shonan doch`	2 gal		
		SUNUL ALL ALL ALL ALL ALL ALL ALL ALL ALL A	PV'S	18	Shenandoah Switch Grass Tw2; 4x2-3; AV 3; sun; z4; Utah Lake water tolerant	1 gal		
	- /	PERENNIAL	<u>.S</u>					
		\bigcirc	VP'G	48	Veronica peduncularis 'Georgia Blue' Georgia Blue Speedwell	5 gal		

— PARKING AREA———

PARKING LOT SCREENING DETAIL

NOT TO SCALE

– PKJ DESIGN GROUP

ltem 2.

LANDSCAPE PLAN SPECIFICATIONS

PART 1 - GENERAL

- 1.1 SUMMARY A. THIS SECTION INCLUDES LANDSCAPE PROCEDURES FOR THE PROJECT INCLUDING ALL LABOR, MATERIALS, AND INSTALLATION NECESSARY, BUT NOT LIMITED TO, THE FOLLOWING: 1. SITE CONDITIONS
- 2. GUARANTEES
- 3. MAINTENANCE 4. SOIL AMENDMENTS
- 5. FINE GRADING
- 6. LANDSCAPE EDGING
- 7. FURNISH AND INSTALLING PLANT
- 8. TURF PLANTING
- 9. WEED BARRIER
- 1.2 SITE CONDITIONS

A.EXAMINATION: BEFORE SUBMITTING A BID, EACH CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS; SHALL VISIT THE SITE OF THE WORK; SHALL FULLY INFORM THEMSELVES AS TO ALL EXISTING CONDITIONS AND LIMITATIONS; AND SHALL INCLUDE IN THE BID THE COST OF ALL ITEMS REQUIRED BY THE CONTRACT DOCUMENTS ARE AT A VARIANCE WITH THE APPLICABLE LAWS, BUILDING CODES, RULES, REGULATIONS, OR CONTAIN OBVIOUS ERRONEOUS OR UNCOORDINATED INFORMATION, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE PROJECT REPRESENTATIVE AND THE NECESSARY CHANGES SHALL BE ACCOMPLISHED BY ADDENDUM.

- B. PROTECTION: CONTRACTOR TO CONDUCT THE WORK IN SUCH A MANNER TO PROTECT ALL EXISTING UNDERGROUND UTILITIES OR STRUCTURES. CONTRACTOR TO REPAIR OR REPLACE ANY DAMAGED UTILITY OR STRUCTURE USING IDENTICAL MATERIALS TO MATCH EXISTING AT NO EXPENSE TO THE OWNER.
- C. IRRIGATION SYSTEM: DO NOT BEGIN PLANTING UNTIL THE IRRIGATION SYSTEM IS COMPLETELY INSTALLED, IS ADJUSTED FOR FULL COVERAGE AND IS COMPLETELY OPERATIONAL.

1.3 PERMITS

A.BLUE STAKE/ DIG LINE: WHEN DIGGING IS REQUIRED, "BLUE STAKE" OR "DIG LINE" THE WORK SITE AND IDENTIFY THE APPROXIMATE LOCATION OF ALL KNOWN UNDERGROUND UTILITIES OR STRUCTURES.

1.4 PLANT DELIVERY, QUALITY, AND AVAILABILITY

- A.UNAUTHORIZED SUBSTITUTIONS WILL NOT BE ACCEPTED. IF PROOF IS SUBMITTED THAT SPECIFIC PLANTS OR PLANT SIZES ARE UNOBTAINABLE, WRITTEN SUBSTITUTION REQUESTS WILL BE CONSIDERED FOR THE NEAREST EQUIVALENT PLANT OR SIZE. ALL SUBSTITUTION REQUESTS MUST BE MADE IN WRITING AND PREFERABLY BEFORE THE BID DUE DATE.
- 1.5 FINAL INSPECTION
- A.ALL PLANTS WILL BE INSPECTED AT THE TIME OF FINAL INSPECTION PRIOR TO RECEIVING A LANDSCAPE SUBSTANTIAL COMPLETION FOR CONFORMANCE TO SPECIFIED PLANTING PROCEDURES, AND FOR GENERAL APPEARANCE AND VITALITY. ANY PLANT NOT APPROVED BY THE PROJECT REPRESENTATIVE WILL BE REJECTED AND REPLACED IMMEDIATELY. 1.6 LANDSCAPE SUBSTANTIAL COMPLETION
- A. A SUBSTANTIAL COMPLETION CERTIFICATE WILL ONLY BE ISSUED BY THE PROJECT REPRESENTATIVE FOR "LANDSCAPE AND IRRIGATION" IN THEIR ENTIRETY. SUBSTANTIAL COMPLETION WILL NOT BE PROPORTIONED TO BE DESIGNATED AREAS OF A PROJECT.
- 1.7 MAINTENANCE

A.PLANT MATERIAL: THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL PLANTED MATERIALS IN A HEALTHY AND GROWING CONDITION FOR 30 DAYS AFTER RECEIVING A LANDSCAPE SUBSTANTIAL COMPLETION AT WHICH TIME THE GUARANTEE PERIOD COMMENCES. THIS MAINTENANCE IS TO INCLUDE MOWING, WEEDING, CULTIVATING, FERTILIZING, MONITORING WATER SCHEDULES, CONTROLLING INSECTS AND DISEASES, RE-GUYING AND STAKING, AND ALL 3.3 PLANTING OPERATIONS OTHER OPERATIONS OF CARE NECESSARY FOR THE PROMOTION OF ROOT GROWTH AND PLANT LIFE SO THAT ALL PLANTS ARE IN A CONDITION SATISFACTORY AT THE END OF THE GUARANTEE PERIOD. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR FAILURE TO MONITOR WATERING OPERATIONS AND SHALL REPLACE ANY AND ALL PLANT MATERIAL THAT IS LOST DUE TO IMPROPER APPLICATION OF WATER.

1.8 GUARANTEE

A.GUARANTEE: A GUARANTEE PERIOD OF ONE YEAR SHALL BEGIN FROM END OF MAINTENANCE PERIOD AND FINAL ACCEPTANCE FOR TREES, SHRUBS, AND GROUND COVERS. ALL PLANTS SHALL GROW AND BE HEALTHY FOR THE GUARANTEE PERIOD AND TREES SHALL LIVE AND GROW IN ACCEPTABLE UPRIGHT POSITION. ANY PLANT NOT ALIVE, IN POOR HEALTH, OR IN POOR CONDITION AT THE END OF THE GUARANTEE PERIOD WILL BE REPLACED IMMEDIATELY. ANY E. TREES MUST BE PLACED ON UNDISTURBED SOIL AT THE BOTTOM OF THE PLANTIN PLANT WILL ONLY NEED TO BE REPLACED ONCE DURING THE GUARANTEE PERIOD. CONTRACTOR TO PROVIDE DOCUMENTATION SHOWING WHERE FACH PLANT TO BE REPLACED IS LOCATED. ANY OUTSIDE FACTORS, SUCH AS VANDALISM OR LACK OF MAINTENANCE ON THE PART OF THE OWNER, SHALL NOT BE PART OF THE GUARANTEE

PART II - PRODUCTS

GENERAL LANDSCAPE NOTES

GRADING AND DRAINAGE REQUIREMENTS

- AS PER CODE, ALL GRADING IS TO SLOPE AWAY FROM ANY STRUCTURE. SURFACE OF THE GROUND WITHIN 10' FEET OF THE FOUNDATION SHOULD DRAIN AWAY FROM THE STRUCTURE WITH A MINIMUM FALL OF 6" • AS PER CODE, FINISHED GRADE WILL NOT DRAIN ON NEIGHBORING PROPERTIES
- A MINIMUM OF 6" OF FOUNDATION WILL BE LEFT EXPOSED AT ALL CONDITIONS
- LANDSCAPE CONTRACTOR TO MAINTAIN OR IMPROVE FINAL GRADE AND PROPER DRAINAGE ESTABLISHED BY EXCAVATOR, INCLUDING BUT NOT LIMITED TO ANY MAINTENANCE, PRESERVATION, OR EXAGGERATION OF SLOPES, BERMS, AND SWALES.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE TO CORRECT ANY DAMAGED OR IMPROPER WATERFLOW OF ALL SWALES, BERMS, OR GRADE
- DEVICES FOR CHANNELING ROOF RUN-OFF SHOULD BE INSTALLED FOR COLLECTION AND DISCHARGE OF RAINWATER AT A MINIMUM OF 10' FROM THE FOUNDATION, OR BEYOND THE LIMITS OF FOUNDATION WALL BACKFILL: WHICHEVER DISTANCE IS GREATER
- GENERAL LANDSCAPE NOTES
- LANDSCAPE CONTRACTOR SHALL HAVE ALL UTILITIES BLUE STAKED PRIOR TO DIGGING, ANY DAMAGE TO UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
- DURING THE BIDDING AND INSTALLATION PROCESS, THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFYING OUANTITIES OF ALL MATERIALS. IF DISCREPANCIES EXIST. THE PLAN SHALL DICTATE QUANTITIES TO BE USED.
- ALL PLANT MATERIAL SHALL BE PLANTED ACCORDING TO ANSI STANDARDS WITH CONSIDERATION TO INDIVIDUAL SOIL AND SITE CONDITIONS, AND NURSERY CARE AND INSTALLATION INSTRUCTIONS. SELECTED PLANTS WILL BE ACCORDING TO THE PLANT LEGEND. IF SUBSTITUTIONS ARE NECESSARY.
- PROPOSED LANDSCAPE CHANGES MUST BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO LAYING SOE • SHOULD THE SITE REQUIRE ADDITIONAL TOPSOIL, REFER TO SOIL TEST WHEN MATCHING EXISTING SOIL. IF A MATCHING SOIL IS NOT LOCATABLE, A 6" DEPTH OF SANDY LOAM TOPSOIL (MIXED PRIOR TO
- SPREADING WITH 1% ORGANIC MATTER) CAN BE INCORPORATED INTO THE EXISTING SOIL USING THE FOLLOWING DIRECTIONS: SCARIFY TOP 6" OF EXISTING SUBSOIL AND INCORPORATE 3" OF NEW COMPOST ENRICHED TOPSOIL. SPREAD REMAINING TOPSOIL TO REACH FINISHED GRADE. EDGING, AS INDICATED ON PLAN, IS TO BE INSTALLED BETWEEN ALL LAWN AND PLANTER AREAS, ANY
- TREES LOCATED IN LAWN MUST HAVE A 4-6' TREE RING OF THE SAME EDGING. LAWN/GRASS AREA SOD
- O ALL LAWN AREAS TO RECEIVE MIN. 6" DEPTH OF QUALITY TOPSOIL. IF TOPSOIL IS PRESENT ON SITE, PROVIDE SOIL TEST TO DETERMINE SOIL QUALITY FOR PROPOSED HYDROSEEDING, FINE LEVEL ALL AREAS PRIOR TO LAYING SOD ALL. LAWN AREAS SHALL BE IRRIGATED WITH 100% COVERAGE BY POP-UP SPRAY HEADS AND GEAR-DRIVEN ROTORS. ALL DECIDUOUS AND CONIFER TREES PLANTED WITHIN SOD AREAS SHALL HAVE A FOUR FOOT(4') DIAMETER TREE RING COVERED WITH CHOCOLATE BROWN BARK MULCH, NO SHREDDED FINES. SUBMIT SAMPLES TO BE APPROVED BY LANDSCAPE ARCHITECT AND OWNER BEFORE INSTALLATION.
- SEED
- O **SOIL**: TEST SOIL FOR ADEOUATE FERTILITY. ANY WEEDS CURRENTLY ON THE SITE SHALL BE REMOVED BY EITHER MECHANICAL MEANS SUCH AS HAND PULLING OR SPRAYING WITH AN HERBICIDE SUCH AS GLYPHOSATE MIXED WITH A SURFACTANT. HERBICIDES SHOULD BE APPLIED BY A CERTIFIED PESTICIDE APPLICATOR. COMPACTED SOIL SHALL BE SCARIFIED TO A DEPTH OF 18

NO.

1

3/26/2024

REVISION

XXXX

UT24038

PROJECT NUI

DATE XX-XX-XX

PLAN INFORMATION

BLUE STAKES OF UTAH UTILITY NOTIFICATION CENTER, INC 1-800-662-4111 www.bluestakes.org

2.1 LANDSCAPE MATERIALS

- A.TREE STAKING: ALL TREES SHALL BE STAKED FOR ONE YEAR WARRANTY PERIOD. PLUMB SHALL BE REPLACED. STAKED TREES SHALL USE VINYL TREE TIES AND TREE (2) INCH BY TWO (2) BY EIGHT (8) FOOT COMMON PINE STAKES USED AS SHOWN ON T B. TREE WRAP: TREE WRAP IS NOT TO BE USED.
- C. MULCH/ROCK: SEE PLANS. ALL PLANTER BEDS TO RECEIVE A MINIMUM 3" LAYER FC
- SHRUBS, AND PERENNIALS AND 1" FOR GROUNDCOVERS. D.WEED BARRIER: DEWITT 5 OZ. WEED BARRIER FABRIC. MANUFACTURED BY DEWITT DEWITTCOMPANY.COM OR APPROVED EQUAL.
- E. TREE, SHRUB, AND GRASS BACKFILL MIXTURE; BACKFILL MIXTURE TO BE 75% NATIV
- 25% TOPSOIL, THOROUGHLY MIXED TOGETHER PRIOR TO PLACEMENT. F. TOPSOIL: REQUIRED FOR TURF AREAS, PLANTER BEDS AND BACKFILL MIXTURE. ACC
- TOPSOIL SHALL MEET THE FOLLOWING STANDARDS: a. PH: 5.5-7.5
- b. EC (ELECTRICAL CONDUCTIVITY): < 2.0 MMHOS PER CENTIMETER
- c. SAR (SODIUM ABSORPTION RATION): < 3.0
- d. % OM (PERCENT ORGANIC MATTER): >1%
- e. TEXTURE (PARTICLE SIZE PER USDA SOIL CLASSIFICATION): SAND <70%; CLAY < 70%, STONE FRAGMENTS (GRAVEL OR ANY SOIL PARTICLE GREATER THAN TWO SIZE) < 5% BY VOLUME.
- G.TURF SOD: ALL SOD SHALL BE 18 MONTH OLD AS SPECIFIED ON PLANS (OR APPROVE THAT HAS BEEN CUT FRESH THE MORNING OF INSTALLATION. ONLY SOD THAT HAS GROWN ON A COMMERCIAL SOD FARM SHALL BE USED. ONLY USE SOD FROM A SINC
- H.LANDSCAPE CURB EDGING: SIX (6) INCHES BY FOUR (4) INCHES EXTRUDED CONCRE' MADE UP OF THE FOLLOWING MATERIALS:
- a. WASHED MORTAR SAND FREE OF ORGANIC MATERIAL.
- b. PORTLAND CEMENT (SEE CONCRETE SPEC. BELOW FOR TYPE)
- c. REINFORCED FIBER SPECIFICALLY PRODUCED FOR COMPATIBILITY WITH AGGI ALKALINE ENVIRONMENT OF PORTLAND CEMENT-BASED COMPOSITES. d. ONLY POTABLE WATER FOR MIXING.
- I.LANDSCAPE METAL EDGING: 5.5" STEEL EDGING WITH 15" DOWELS INTO THE GROUP STABILIZATION.
- PART III EXECUTION 3.1 GRADING
- A. TOPSOIL PREPARATION: GRADE PLANTING AREAS ACCORDING TO THE GRADING 1 ELIMINATE UNEVEN AREAS AND LOW SPOTS. PROVIDE FOR PROPER GRADING AND B. TOPSOIL PLACEMENT: SLOPE SURFACED AWAY FROM BUILDING AT TWO (2) PERCEN
- NO POCKETS OF STANDING WATER. ESTABLISH FINISH GRADES OF ONE (1) INCHES BELOW GRADE OF ADJACENT PAVED SURFACED. PROVIDE NEAT, SMOOTH, AND UN GRADES. REMOVE SURPLUS SUB-SOIL AND TOPSOIL FROM THE SITE.
- C. COMPACTION: COMPACTION UNDER HARD SURFACE AREAS (ASPHALT PATHS AND C SURFACES) SHALL BE NINETY-FIVE (95) PERCENT. COMPACTION UNDER PLANTING A BE BETWEEN EIGHTY-FIVE (85) AND NINETY (90) PERCENT. 3.2 TURF GRADING
- A. THE SURFACE ON WHICH THE SOD IS TO BE LAID SHALL BE FIRM AND FREE FROM DEPRESSIONS, OR UNDULATIONS OF ANY KIND. THE SURFACE SHALL BE FREE OF A LARGER THAN 1/2" IN DIAMETER.
- B. THE FINISH GRADE OF THE TOPSOIL ADJACENT TO ALL SIDEWALKS, MOW-STRIPS, E THE LAYING OF SOD, SHALL BE SET SUCH THAT THE CROWN OF THE GRASS SHALL SAME LEVEL AS THE ADJACENT CONCRETE OR HARD SURFACE. NO EXCEPTIONS.
- A.REVIEW THE EXACT LOCATIONS OF ALL TREES AND SHRUBS WITH THE PROJECT REPRESENTATIVE FOR APPROVAL PRIOR TO THE DIGGING OF ANY HOLES. PREPARE ACCORDING TO THE DETAILS ON THE DRAWINGS.
- B. WATER PLANTS IMMEDIATELY UPON ARRIVAL AT THE SITE. MAINTAIN IN MOIST CO UNTIL PLANTED.
- C. BEFORE PLANTING, LOCATE ALL UNDERGROUND UTILITIES PRIOR TO DIGGING. DO PLANTS ON OR NEAR UTILITY LINES.
- D.THE TREE PLANTING HOLE SHOULD BE THE SAME DEPTH AS THE ROOT BALL, AND THE DIAMETER OF THE ROOT BALL.
- F. THE TREE HOLE DEPTH SHALL BE DETERMINED SO THAT THE TREE MAY BE SET SI OF FINISH GRADE, 1" TO 2" ABOVE THE BASE OF THE TRUNK FLARE, USING THE TO ROOT BALL AS A GUIDE.
- G.PLANT IMMEDIATELY AFTER REMOVAL OF CONTAINER FOR CONTAINER PLANTS. H.SET TREE ON SOIL AND REMOVE ALL BURLAP, WIRE BASKETS, TWINE, WRAPPINGS,
- INCHES BEFORE ADDING 6" OF WEED FREE TOPSOIL WITH HIGH ORGANIC MATTER. AREAS PRIOR TO HYDROSEEDING AND SET THE GRADE FOR POSITIVE DRAINAGE. TO BE SOFT AT TIME OF APPLICATION. FERTILIZER IS TO BE ADDED WHEN HYDROSEED SOIL TEST RESULTS AND HYDROSEEDING CONTRACTOR FOR APPLICATION RATES.
- O **SEED**: USE SEED MIXES AS SPECIFIED BY LANDSCAPE ARCHITECT OF PURE LIVE SEED BASIS/ACRE. THE OPTIMUM TIME TO PANT IS IN NOVEMBER BEFORE THE FIRST SNOW OVER HEAVY SNOWPACK. SEED WILL LAY DORMANT AND BE READY TO GERMINATE GROUND THAWS AND WARMS IN LATE WINTER. IF SEEDING IN LATE FALL IS NOT POS BEFORE APRIL 1. CONTACT SUMMIT SEED. DARRELL@SUMMITSEEDING.COM 435-709-800
- O APPLICATION: HYDROSEEDING SHALL CONSIST OF SEED, TACKIFIER, WOOD FIBER M FERTILIZER IN A WATER BASED SLURRY. TANK MOUNTED TRUCK SHALL HAVE CONTI AGITATION. THE PUMP ON THE TRUCK WILL FORCE THE SLURRY THROUGH A TOP-MC DISCHARGE NOZZLE (TOWER). USE 2000 POUNDS WOOD FIBER MULCH AND 50-100 POU TACKIFIER PER ACRE
- O **IRRIGATION**: ALL AREAS MUST BE KEPT MOIST WITHOUT PUDDLES OR RUNOFF USING DAYTIME WATER CYCLES. ADJUST AND MONITOR SPRINKLERS AND CLOCK TO ACHIEV IRRIGATION
- IF PERMANENT IRRIGATION IS NOT PLANNED, TEMPORARY IRRIGATION IS REQUIRED AT SCHEDULE: FOR 8 WEEKS SOIL SHALL REMAIN DAMP DURING ESTABLISHMENT PERIOD WT PUDDLING ON SOIL SURFACE, APPLY WATER APPROXIMATELY THREE TIMES A DAY FOR 5 EACH IRRIGATION EVENT DEPENDING ON TEMPERATURE AND TIME OF YEAR. A SPARSE EXPECTED. CONTINUE TEMPORARY IRRIGATION FOR ONE YEAR EVENTUALLY REDUCING
- APPLICATION TO ONCE A WEEK, THEN ONCE EVERY TWO WEEKS TO FINALLY ONCE A MC PROGRESS OF ESTABLISHMENT AND ADJUST SPRINKLERS ACCORDINGLY. THE GOAL IS TO HEALTHY STAND OF GRASSES WITH LITTLE TO NO IRRIGATION.
- O WEED CONTROL AND MAINTENANCE: MANDATORY WEED CONTROL IS REQUIRED COMPETITION AND WEED SEED PRODUCTION. WEEDS MUST BE KEPT UNDER CONTR MECHANICALLY PULLING OR CHEMICALLY SPRAYING AS DIRECTED BY THE APPLICA BROADLEAF HERBICIDE BIANNUALLY AND ESTABLISH A CONSISTENT REGIMEN OF N FERTILIZING TO PREVENT WEEDS FROM PRODUCING SEED. MOW ONCE IN THE SPRIN THE FALL BEFORE FERTILIZATION. FERTILIZER OPTION IS SUSTAIN 4-6-4 DEPENDING FERTILITY, DO NOT MOW SHORTER THAN 4 INCHES. BAG ALL CUTTINGS TO REMOVE
- FROM PROPERTY. KEEP WEEDS CUT DOWN AND DO NOT LET THEM GO TO SEED. WE PRODUCTION IS THE GAUGE FOR WHEN TO MOW. WHICH GENERALLY OCCURS IN AP WELL AS EARLY FALL DEPENDING ON TEMPERATURE AND MOISTURE. THIS PROCEDU REOUIRED UNTIL A HEALTHY STAND OF GRASSES IS EVIDENT AND COMPETING WEL EXPECT FROM 1 TO 3 YEARS.
- O PROGANICS BIOTIC SOIL MEDIA: WHERE CONDITIONS MAY PROHIBIT ADDING TOPS BIOTIC SOIL MEDIA SHOULD BE APPLIED BY HYDROSEEDER AT 3500LBS/ACRE WITH S FERTILIZER PRIOR TO THE APPLICATION OF WOOD MULCH(2000LBS/ACRE) COMBINE TACKIFIER (50-100 LBS/ACRE.)
- O ADDING FORBS: SHRUBS AND PERENNIALS. BY SEED OR CONTAINER. CAN BE ADDED ARE UNDER CONTROL AND HERBICIDE IS NO LONGER NEEDED. USUALLY 1-2 YEARS HYDROSEEDING

ROJECT INFORMATI

CC CALLAWAY 77 N. SUMMIT RIDGE PARKWAY SANTAQUIN, UTAH

		SITE M	ATERIALS L	EGEND (NOTE: SITE MATER ONLY. IN CASE OF I	RIAL DISC
ALL TREES NOT E STAKES TWO	BEGINNING AND BACKFILLING OPERATIONS. DO NOT USE PLANTING STOCK IF THE BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATION. I. APPLY VITAMIN B-1 ROOT STIMULATOR AT THE RATE OF ONE (1) TABLESPOON PER GALLON.	SYMBOL	1 LANDSCAPE DESCRIPTION		
THE DETAILS. OR TREES,	J. UPON COMPLETION OF BACKFILLING OPERATION, THOROUGHLY WATER TREE TO COMPLETELY SETTLE THE SOIL AND FILL ANY VOIDS THAT MAY HAVE OCCURRED. USE A WATERING HOSE, NOT THE AREA IRRIGATION SYSTEM. IF ADDITIONAL PREPARED TOPSOIL MIXTURE NEEDS TO BE ADDED. IT SHOLLD BE A COURSED MAY AS REQUIRED TO ESTABLISH EDUSTIONADE AS	 1-15	1" MINUS GREY CRUS SUBMIT SAMPLES FO	SHED ROCK. PR LANDSCAPE ARCHITEC	T.
Г COMPANY.	ADDED. IT SHOULD BE A COURSER MIX AS REQUIRED TO ESTABLISH FINISH GRADE AS INDICATED ON THE DRAWINGS.		PROVIDE 3" DEPTH LANDSCAPE NOTES	OF ROCK MULCH TOP DRE FOR ADDITIONAL INFORM	ESS M A
VE SOIL AND	K.THE AMOUNT OF PRUNING SHALL BE LIMITED TO THE MINIMUM NECESSARY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES. ALL CUTS, SCARS, AND BRUISES SHALL BE PROPERLY TREATED ACCORDING TO THE DIRECTION OF THE PROJECT REPRESENTATIVE. PROPER PRUNING TECHNIQUES SHALL BE USED. DO NOT LEAVE STUBS AND DO NOT CUT THE LEADER BRANCH. IMPROPER PRUNING SHALL BE CAUSE FOR REJECTION OF THE PLANT MATERIAL.	1-18	2-4" TAN CRUSHED R	OCK.	·112.
QEF I ADLE	L. PREPARE A WATERING CIRCLE OF 2' DIAMETER AROUND THE TRUNK. FOR CONIFERS, EXTEND THE WATERING WELL TO THE DRIP LINE OF THE TREE CANOPY. PLACE MULCH AROUND THE PLANTED TREES. 4. TURF - SOD LAYING		SUBMIT SAMPLES FO PROVIDE 4" DEPTH (LANDSCAPE NOTES	PR LANDSCAPE ARCHITEC OF ROCK MULCH TOP DRE FOR ADDITIONAL INFORM	T I ESS MA
5 30%; SILT < O (2) MM IN	A. TOP SOIL AMENDMENTS: PRIOR TO LAYING SOD, COMMERCIAL FERTILIZER SHALL BE APPLIED AND INCORPORATED INTO THE UPPER FOUR (4) INCHES OF THE TOPSOIL AT A RATE OF FOUR POUNDS OF NITROGEN PER ONE THOUSAND (1,000) SQUARE FEET. ADJUST FERTILIZATION MIXTURE AND RATE OF APPLICATION AS NEEDED TO MEET RECOMMENDATIONS GIVEN BY TOPSOIL ANALYSIS. INCLUDE OTHER AMENDMENTS AS REQUIRED.	SYMBOL	2 HARDSCAPE DESCRIPTION		
ED EQUAL) AS BEEN GLE SOURCE.	B. FERTILIZATION: THREE WEEKS AFTER SOD PLACEMENT FERTILIZE THE TURF AT A RATE OF ½ POUND OF NITROGEN PER 1000 SQUARE FEET. USE FERTILIZER SPECIFIED ABOVE. ADJUST FERTILIZATION MIXTURE AND RATES TO MEET RECOMMENDATIONS GIVEN BY TOPSOIL ANALYSIS.	[2-05]	5" DEEP STEEL EDG	ING - INSTALL PER MANUF	ΞA
GRESSIVE	C. SOD AVAILABILITY AND CONDITION: SOD IS TO BE DELIVERED TO THE SITE IN GOOD CONDITION. IT IS TO BE INSPECTED UPON ARRIVAL AND INSTALLED WITHIN 24 HOURS. SOD IS TO BE MOIST AND COOL TO ENSURE THAT DECOMPOSITION HAS NOT BEGUN AND IS TO BE FREE OF PESTS, DISEASES, OR BLEMISHES. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO THE EXISTING CONDITIONS PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR FURNISHING AND LAYING ALL SOD REQUIRED ON THE PLANS. HE SHALL FURNISH NEW SOD AS SPECIFIED ABOVE AND LAY IT SO AS TOO COMPLETELY SATISFY THE INTENT AND MEANING OF THE PLANS AND SPECIFICATION AT NO EXTRA COST TO THE OWNER.	SITE REQ ZONING CLASSIFICAT PROPOSED DEVELOP ADJACENT DEVELOP UNINCORPORATED U	UIREMENT <u>FION:</u> I-1 INDUSTRIAL <u>MENT TYPE:</u> INDUSTR <u>MENT ZONES:</u> PF ZON JTAH COUNTY TO SOU	CALCULATIC IAL E TO THE EAST ACROSS FR TH AND WEST, I-1 TO THE	
ND FOR	 IN THE CASE OF ANY DISCREPANCY IN THE AMOUNT OF SOD TO BE REMOVED OR AMOUNT TO BE USED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPORT SUCH TO THE PROJECT REPRESENTATIVE PRIOR TO COMMENCING THE WORK. D.SOD LAYING: THE SURFACE UPON WHICH THE NEW SOD TO BE LAID WILL BE PREPARED AS SECURED IN THE DETAIL AND BE LIGHTLY WATERED RECORD LAYING. ARE AS WHERE SOD IS TO BE LIGHT AND ADDRESS OF A SWEEPE SOD IS TO BE LIGHT AND ADDRESS OF A SWEEPE SOD IS TO BE LIGHT. 	TOTAL SITE AREA: 94 <u>LANDSCAPE AREA:</u> MINIMUM 8% ON SITE	,628 SQ. FT. Landscaping	REQUIRED :	
PLAN. D DRAINAGE. NT SLOPE WITH	SPECIFIED IN THE DETAIL AND BE LIGHTLY WATERED BEFORE LAYING. AREAS WHERE SOD IS TO BE LAID SHALL BE CUT TRIMMED, OR SHAPED TO RECEIVE FULL WIDTH SOD (MINIMUM TWELVE (12) INCHES). NO PARTIAL STRIP OR PIECES WILL BE ACCEPTED.E. SOD SHALL BE TAMPED LIGHTLY AS EACH PIECE IS SET TO ENSURE THAT GOOD CONTACT IS	AS A PERCENTAGE OF TOTAL SITE AREA: 94,6 PARK STRIPS:	TOTAL SITE AREA 28 SQ. FT.	≥ 7,570 SQ. FT. (8%)	
FOR PLANTERS NIFORM FINISH CONCRETE	MADE BETWEEN EDGES AND ALSO THE GROUND. IF VOIDS OR HOLES ARE DISCOVERED, THE SOD PIECE(S) IS (ARE) TO BE RAISED AND TOPSOIL IS TO BE USED TO FILL IN THE AREAS UNTIL LEVEL. SOD LAID ON ANY SLOPED AREAS SHALL BE ANCHORED WITH WOODEN DOWELS OR OTHER MATERIALS WHICH ARE ACCEPTED BY THE GRASS SOD INDUSTRY.	1 TREE/ 30 LN FT. DRY MOUNTAIN DRIVI NEBO WAY: 293 LN. FT.	E: 209 LN. FT.	7 10	
AREAS SHALL	F. SOD SHALL BE ROLLED WITH A ROLLER THAT IS AT LEAST 50% FULL IMMEDIATELY AFTER INSTALLATION TO ENSURE THE FULL CONTACT WITH SOIL IS MADE.G.APPLY WATER DIRECTLY AFTER LAYING SOD. RAINFALL IS NOT ACCEPTABLE.	PLANT COUNTS: LANDSCAPE YARDS 4 SHRUBS/ 40 LN. FT.		REQUIRED:	Р
FOOTPRINTS, ALL MATERIALS ETC. PRIOR TO	H.WATEKING OF THE SOD SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR BY WHATEVER MEANS NECESSARY TO ESTABLISH THE SOD IN AN ACCEPTABLE MANNER TO THE END OF THE MAINTENANCE PERIOD. IF AN IRRIGATION SYSTEM IS IN PLACE ON THE SITE, BUT FOR WHATEVER REASON, WATER IS NOT AVAILABLE IN THE SYSTEM. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO WATER THE SOD BY WHATEVER MEANS. JUNTIL THE SOD IS ACCEPTED	DRY MOUNTAIN DRIV NEBO WAY: 293 LN. FT. *TREES IN THESE ARE AT 1 TREE/ 30 LN. FT. I	E: 209 LN. FT. AS ARE PLANTED N ACCORDANCE WITH	21 SHRUBS 29 SHRUBS	
BE AT THE	 BY THE CONTRACTOR TO WATER THE SOD BY WHATEVER MEANS, ON THE THE SOD IS ACCEPTED BY THE PROJECT REPRESENTATIVE. I. PROTECTION OF THE NEWLY LAID SOD SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE ACCEPTABLE VISUAL BARRIERS, TO INCLUDE DADRICA DES SET ADDRODUATE DISTANCES WITH STRUCCS OF TARES DETWIEN DADRIERS. AS AN 	PARK STRIP CODE BUILDING FRONT AND	O SIDE ELEVATIONS:		
E ALL HOLES ONDITION	INDICATION OF NEW WORK. THE CONTRACTOR IS TO RESTORE ANY DAMAGED AREAS CAUSED BY OTHERS (INCLUDING VEHICULAR TRAFFIC), EROSION, ETC, UNTIL SUCH TIME AS THE LAWN IS ACCEPTED BY THE OWNER.	EAST ELEVATION: 180 INORTH ELEVATION: 7() LN. FT. BLDG. ELEV.	4 TREES, 14 SHRUBS 4 T 2 TREES, 6 SHRUBS 2 T	ΓRI ΓRI
O NOT PLACE	 J. ALL SOD THAT HAS NOT BEEN LAID WITHIN 24 HOURS SHALL BE DEEMED UNACCEPTABLE AND WILL BE REMOVED FROM THE SITE. 3.5 WEED BARRIER A FOR THE HEALTH OF THE SOLL AND THE MICROORGANISMS. WEED BARRIER IS NOT 	LANDSCAPING IN THE OF 6% OF INTERIOR SP PARKING LOT: 12,609 St	AMOUNT ACE OF Q. FT. TOTAL	REQUIRED: AT LEAST 757 SQ. FT. (6%)	Р)
TWO TIMES	RECOMMENDED. IF USE IS REQUIRED OR REQUESTED, DO NOT PLACE IN ANNUAL OR GRASS AREAS.	SCREENING MUST BLO	CK LOWEST 3' OF CROSS	SECTION VIEW OF PARKING	G A
LIGHTLY HIGH POF THE	B. CUT WEED BARRIER BACK TO THE EDGE OF THE PLANT ROOTBALL. C. OVERLAP ROWS OF FABRIC MIN. 6" D.STABLE FABRIC EDGES AND OVERLAPS TO GROUND.	PARKING ISLANDS 1 OR MORE SHADE TRE 4 SHRUBS /80 SO, ET OL	EE/ ISLAND	REQUIRED:	Р
ETC. BEFORE	END OF SECTION	ISLAND #1: 145 SQ. FT. ISLAND #2: 500 SQ. FT. ISLAND #3: 402 SQ. FT. ISLAND #4: 137 SQ. FT.		1 TREE, 4 SHRUBS 2 TREES, 24 SHRUBS 2 TREES, 20 SHRUBS 1 TREE 4 SHRUBS	1 2 2 1
FINE LEVEL ALL DPSOIL SHOULD ING. REFER TO 9 (PLS) ON A	 MULCH ORGANIC O PLANTING AREAS TO BE FREE OF WEEDS AND RECEIVE MIN. 12" DEPTH OF QUALITY TOPSOIL. IF TOPSOIL IS PRESENT ON SITE, PROVIDE SOIL TEST TO DETERMINE SOIL QUALITY FOR PROPOSED PLANTINGS. PROVIDE 3" DEPTH OF ORGANIC MULCH TOP DRESSING. KEEP MULCH AWAY FROM TOP OF ROOT BALL OF ALL PLANT MATERIAL. 	SPECIES DIVERSITY: TOTAL TREES ON SITE	: 27	PERMITTED: MAX % OF ANY ONE SPECIES: 60% (NO MORE THAN 16	Ţ
V. DO NOT SOW CONCE THE SSIBLE, SEED 003.	O IF REQUIRED BY CITY, INSTALL DEWITT 50Z WEED BARRIER LANDSCAPE FABRIC UNDER ALL MULCH AREAS. KEEP WEED BARRIER 1 FOOT AWAY FROM EDGE OF ROOT BALL OF ALL PLANT MATERIAL. IF WEED BARRIER IS NOT REQUIRED OR INSTALLED, AT OWNER'S APPROVAL, USE TREFLAN 10 AS A PRE-EMERGENT. APPLY ACCORDING TO LABEL DIRECTIONS BY CERTIFIED PESTICIDE APPLICATOR AFTER PLANTING AND AFTER APPLYING MULCH.	TURF: NO MORE THAN 20% C	F THE REQUIRED	PERMITTED:	
MULCH AND INUOUS OUNTED UNDS OF	O IF USING TREFLAN 10 WITHOUT WEED BARRIER, THIS AREA WILL ALSO NEED AN YEARLY MANAGEMENT PROGRAM. SUBMIT PROGRAM TO OWNER. O ANNUAL PLANTING AREAS AS SHOWN ON PLAN TO RECEIVE 4" OF SOIL AID MATERIAL (ORGANIC MULCH). NO MULCH SHALL BE PLACED WITHIN 12" OF TREE TRUNK AND 6" WITHIN BASE OF SHRUBS AND PERENNIALS. DO NOT COVER LOW BRANCHES OF SHRUBS WITH ROCK	NO TURF AREAS LESS T NO TURF IN PARK STRI GREATER THAN 25%.	THAN 8 FT. WIDE. PS, PATHS, OR SLOPES	(20% OF REQUIRED LANDSCAPE AREA)	
G FREQUENT EVE PROPER	 INORGANIC O ROCK MULCH PLANTING AREAS TO BE FREE OF WEEDS AND RECEIVE MIN. 12" DEPTH OF QUALITY TOPSOIL. IF TOPSOIL IS PRESENT ON SITE, PROVIDE SOIL TEST TO DETERMINE SOIL QUALITY FOR PROPOSED PLANTINGS. WHERE PLANTING IS SPARSE (GREATER THAN 4' DISTANCE BETWEEN PLANTS OF COLUMN AND DEPENDENCE ADD WHEN A DEPENDENCE AND WEED AND WEED AND WEED AND SPARSE 	PLANT SELECTION: PL SHOULD INCLUDE A G HAVE BEEN SELECTEI UTILITY SCREENING: A	ANTS SHALL BE SUITED T OOD COMBINATION OF D FROM THE SANTAQUIN ALL ABOVEGROUND UTI	TO MICROCLIMATE AND SOI EVERGREEN AND DECIDUC I CITY APPROVED TREE SPEC LITY EQUIPMENT AS WELL A	IL (DU CII AS
THOUT -7 MINUTES FOR	OR 20' BETWEEN GROUPINGS), ADDITIONAL TOPSOIL IS NOT NECESSARY EXCEPT FOR BACKFILLING PLANTING HOLE. PREPARE A HOLE TWICE THE WIDTH OF THE CONTAINER, WATER IN PLANT, BACKFILL WITH A 4:1 RATIO OF SOIL TO COMPOST. TAMP LIGHTLY AND WATER AGAIN. KEEP ROCK 12"	HVAC EQUIPMENT. ET GREATER THAN THE E	C. SHALL BE SCREENED QUIPMENT HEIGHT.	FROM PUBLIC VIEW BY A WA	١LI
DENSITY IS G WATER ONTH. MONITOR) CREATE A	AWAY FROM TRUNK OF TREES AND 6" AWAY FROM BASE OF SHRUBS AND PERENNIALS. DO NOT COVER LOW BRANCHES OF SHRUBS WITH ROCK. O IF REQUIRED BY CITY, INSTALL DEWITT 50Z WEED BARRIER LANDSCAPE FABRIC UNDER ALL ROCK AREAS. KEEP WEED BARRIER 1 FOOT AWAY FROM EDGE OF ROOT BALL OF ALL PLANT MATERIAL. IF WEED BARRIER IS NOT REQUIRED OR INSTALLED. AT OWNER'S APPROVAL. USE TREET AN 10 AS A	CLEAR VIEW AREAS: N AREAS. TREES ARE AL GREATER THAN 8' ABC	O PLANTS OR OBSTRUCT LOWED IN CLEAR VIEW . IVE NEAREST ASPHALT (IONS OVER 36" IN HEIGHT A AREAS BUT MUST BE PRUNE GRADE.	ARI D 3
D TO REDUCE AOL BY TOR. APPLY A 40WING AND	 PRE-EMERGENT. APPLY ACCORDING TO LABEL DIRECTIONS BY CERTIFIED PESTICIDE APPLICATOR AFTER PLANTING AND AFTER APPLYING MULCH. O IF USING TREFLAN 10 WITHOUT WEED BARRIER, THIS AREA WILL ALSO NEED AN YEARLY MANAGEMENT PROGRAM. SUBMIT PROGRAM TO OWNER. UPON REQUEST, A PLANT GUIDE IS 				
NG AND ONCE IN G ON SOIL WEED SEED	AVAILABLE WITH OUR RECOMMENDATIONS REGARDING WEED BARRIER, PLANT CARE AND MAINTENANCE. GENERAL IRRIGATION NOTES				
ED SEED PRIL OR MAY AS URE WILL BE L WITH WEEDS.	 A NEW UNDERGROUND, AUTOMATIC IRRIGATION SYSTEM IS TO BE INSTALLED BY CONTRACTOR IN ALL LANDSCAPED AREAS. LAWN AREAS TO RECEIVE AT LEAST 100% HEAD TO HEAD COVERAGE AND PLANTER AREAS TO RECEIVE A FULL DRIP SYSTEM TO EACH TREE AND SHRUB. POINT SOURCE DRIP OR IN-LINE DRIP TUBING TO BE SECURED AT CENTER OF ROOT BALL, NOT AGAINST TRUNK. SEE IRRIGATION PLAN. 				
¹ PSOIL, PROGANICS BEED AND D WITH	 INSTALLER RESPONSIBILITIES AND LIABILITIES THESE PLANS ARE FOR BASIC DESIGN LAYOUT AND INFORMATION. LANDSCAPE CONTRACTOR IS REQUIRED TO USE TRADE KNOWLEDGE FOR IMPLEMENTATION. OWNER ASSUMES NO LIABILITIES FOR INADEQUATE ENGINEERING CALCULATIONS, MANUFACTURER PRODUCT DEFECTS, INSTALLATION OF ANY LANDSCAPING AND COMPONENTS. OR TIME EXECUTION 				
O ONCE WEEDS AFTER	 LANDSCAPE CONTRACTOR IS RESPONSIBLE AND LIABLE FOR INSTALLATION OF ALL LANDSCAPING AND IRRIGATION SYSTEMS INCLUDING CODE REQUIREMENTS, TIME EXECUTIONS, INSTALLED PRODUCTS AND MATERIALS. 				
1			DEVELOPER / P	ROPERTY OWNER / CLIEN	T
				EXCEL ENG	Ĵ

ATT: DAVID PETERSON 801-756-4504 DAVID@EXCELCIVIL.COM

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		SYMBOL	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE	
AND OWNER APPROVAL. ING. SEE INORGANIC MULCH TION. SHEET LP-101.	<u>QTY</u> 5,751 sf	CONIFERS	JV'T	4	Juniperus virginiana 'Taylor' Taylor Eastern Redcedar Te2; low water; 30' x 3', sun, Z4; Utah Lake water tolerant	B & B		6`	
	15,028 sf	DECIDUOUS	S TREES						
AND OWNER APPROVAL. ING. SEE INORGANIC MULCH TION. SHEET LP-101.			CC'I	10	Crataegus crus-gali inermis Thornless Cockspur Hawthorn Td4; 25x25; AV 314; full to part sun; z3; Utah Lake water tolerant	B & B	2"Cal		
CTURER SPECIFICATION.	<u>QTY</u> 176 lf	+	M'RS	7	Malus x `Raspberry Spear' Raspberry Spear Crabapple low; 20x8; sun; z4; Utah Lake water tolerant	B & B	2"Cal		
NIC.		o	M'SS	4	Malus x `Spring Snow` Spring Snow Crab Apple low; 25x22; sun; z4; Utah Lake water tolerant	B & B	2"Cal		
M SUMMIT RIDGE PARKWAY, ORTH		\bigcirc	QR'A	3	Quercus robur x alba `JFS-KW1QX` TM Street Spire Oak Td4; 45x14; AV 176; sun; z4	B & B	2"Cal		
		SYMBOL	CODE	<u>QTY</u>	BOTANICAL / COMMON NAME	CONT			
PROVIDED : 8,582 SQ. FT. (9%)		DECIDUOUS	S SHRUB	<u>S</u>					
PROVIDED: 7			AA'R	4	Amelanchier alnifolia 'Regent' Regent Serviceberry Sd2; 5x5; AV 50; sun to part shade; z2; Utah Lake water tolerant	5 gal			
10 ROVIDED:		(\cdot)	AM'S	38	Aronia melanocarpa 'SMNAMPEM' Low Scape Snowfire TM Black Chokeberry Moderate water; 3-4' x 3-4'; sun to part shade; z3;	5 gal			
21 SHRUBS 29 SHRUBS		\bigcirc	B'PA	36	Buddleja x `SMNBDL` Pugster Amethyst Dwarf Butterfly Bush Sd3; 2x2; AV 12.5; sun; z5; Utah Lake water tolerant	5 gal			
		\bigcirc	BT"B	26	Berberis thunbergii 'BailElla' Lambrusco™ Japanese Barberry	5 gal			
EES, 14 SHRUBS EES, 6 SHRUBS ROVIDED:		$\langle \cdot \rangle$	CF'G	12	Caragana frutex `Globosa` Globe Peashrub Sd1; 5x5; AV28; sun to part sun; z2; Utah Lake water tolerant	5 gal			
1,145 SQ. FT. (9%)		$\langle \cdot \rangle$	PB'P	15	Prunus besseyi `P011S` 'Pawnee Buttes' Pawnee Buttes Sand Cherry Sd1: 1.5 x 6: AV19.5: sup: 74:	5 gal			
REA FROM STREET OR ADJACENT M STREET ON LP-100.		EVERGREE		22	our, no x 0, 11 (17.0, our, 2),				
ROVIDED: TREE, 4 SHRUBS			JH'W	3	Juniperus horizontalis 'Wiltonii' Blue Rug Juniper 8" x 8'; low water; sun; z3; Utah Lake water	5 gal			
TREES, 24 SHRUBS TREES, 20 SHRUBS TREE, 4 SHRUBS PROVIDED: 4 IUNIDER		GRASSES			Miscanthus sinensis `Morning Light`				
 4 JUNIPER, 10 HAWTHORNE, 7 RASPBERRY SPEAR CRABAPPLE, 6 SPRING SNOW CRABAPPLE 3 OAK 			M'ML	14	Morning Light Maiden Grass Tw2; 5x4; AV 32; sun to light shade; z5; Utah Lake water tolerant Panicum virgatum `Shenandoah`	2 gal			
PROVIDED: 0 SQ. FT. (0% OF REQUIRED LANDSCAPE AREA)		SUMULULULULULULULULULULULULULULULULULULU	PV'S	18	Shenandoah Switch Grass Tw2; 4x2-3; AV 3; sun; z4; Utah Lake water tolerant	1 gal			
		PERENNIAL	<u>.S</u>						
CONDITIONS. DEVELOPMENTS 5 TREES. ALL TREES ON THIS PLAN 25 LIST. AS WELL AS GROUND MOUNTED . OR PLANTINGS EQUAL TO OR	1	(\cdot)	VP'G	48	Veronica peduncularis 'Georgia Blue' Georgia Blue Speedwell	5 gal			

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22

	MANUFACTURER/MODEL/DESCRIPTION	QTY
X	Rain Bird XCZ-100-IVMQ (2) 1" Wide Flow IVM Drip Control Kit for Commercial Applications. 1in. Ball Valve with 1in. PESBIVM Smart Valve w/ factory installed IVM-SOL 0.3-20 gpm and 1in. Pressure Regulating 40psi Quick-Check Basket Filter 0.3-20 gpm	4
۲	Pipe Transition Point above grade Pipe transition point from PVC lateral to drip tubing with riser to above grade installation.	20
	Area to Receive Drip Emitters Rain Bird PC (2) Single Outlet, Pressure Compensating Drip Emitters with Self-Piercing Barb Inlet. Flow rate: 5 GPH=light brown; 7 GPH=violet; 10 GPH=green; 12 GPH=dark brown; 18 GPH=white; 24 GPH=orange. Emitter Notes: PC 05 emitters (1 assigned to each flat plant)	8,011 s.f.
	PC-05 emitters (1 assigned to each 4"pot plant)	
	PC-05 emitters (1 assigned to each 1 gal plant)	18
	PC-05 emitters (1 assigned to each 2 gal plant)	14
	PC-05 emitters (2 assigned to each 3 gal plant)	
	PC-05 emitters (2 assigned to each 5 gal plant)	364
	PC-05 emitters (3 assigned to each 15 gal plant)	
	PC-05 emitters (3 assigned to each 20 gal. plant)	
	PC-05 emitters (3 assigned to each B & B, 1.25"Cal plant)	
	PC-05 emitters (3 assigned to each B & B, 2"Cal plant)	72
	PC-05 emitters (3 assigned to each B & B, 4-6` plant)	12
	PC-05 emitters (3 assigned to each B & B, 5`-6` plant)	
	PC-05 emitters (3 assigned to each B & B, 6` plant)	12
	PC-05 emitters (3 assigned to each B & B, 7`-9` plant)	12
	PC-05 emitters (3 assigned to each B & B, 8`-10` plant) PC-05 emitters (4 assigned to each B & B, Multi-trunked plant)	
	PC-05 emitters (4 assigned to each Blue plant)	
	r C-05 emitters (4 assigned to each r lug plant)	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	<u>QTY</u>
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION Rain Bird 44-RC 1" 1in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, and 2-Piece Body.	<u>QTY</u> 1
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION Rain Bird 44-RC 1" 1in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, and 2-Piece Body. Shut Off Valve	<u>QTY</u> 1 1
SYMBOL T T M	MANUFACTURER/MODEL/DESCRIPTIONRain Bird 44-RC 1"1in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, and 2-Piece Body.Shut Off ValveRain Bird EFB-CP-PRS-D 1"1in., 1-1/4", 1-1/2in., 2in. Brass Master Valve, that is Contamination Proof w/Self-Flushing Filter Screen. Globe Configuration, Reclaimed Water Compatible, and Purple Handle Cover Designates Non-Potable Water Use. With Pressure Regulator	QTY 1 1
	MANUFACTURER/MODEL/DESCRIPTIONRain Bird 44-RC 1"1in. Brass Quick-Coupling Valve, withCorrosion-Resistant Stainless Steel Spring, ThermoplasticRubber Cover, and 2-Piece Body.Shut Off ValveRain Bird EFB-CP-PRS-D 1"1in., 1-1/4", 1-1/2in., 2in. Brass Master Valve, that isContamination Proof w/Self-Flushing Filter Screen.Globe Configuration, Reclaimed Water Compatible, andPurple Handle Cover Designates Non-Potable Water Use.With Pressure Regulator.Rain Bird ESPLXIVM60 Station, 2-Wire Controller w/ Smart ValveTechnology. (1) ESPLXIVM 60-Station,Indoor/Outdoor, Plastic Wall-Mount Cabinet. SystemRequirements: Rain Bird LXIVM-XXX Integrated ValveModules & 2-Wire Devices. Use Paige Electric CableP7072D & Rain Bird WC20 Dry Splices ONLY. GroundSystem w/ (X) LXIVMSD Surge Device in Rain BirdRound Valve Boxes. Install Per ManufacturersRecommendations.	QTY 1 1 1 1 1 1
	MANUFACTURER/MODEL/DESCRIPTIONRain Bird 44-RC 1"1in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, and 2-Piece Body.Shut Off ValveRain Bird EFB-CP-PRS-D 1"1in., 1-1/4", 1-1/2in., 2in. Brass Master Valve, that is Contamination Proof w/Self-Flushing Filter Screen. Globe Configuration, Reclaimed Water Compatible, and Purple Handle Cover Designates Non-Potable Water Use. With Pressure Regulator.Rain Bird ESPLXIVM 60 Station, 2-Wire Controller w/ Smart Valve Technology. (1) ESPLXIVM 60-Station, Indoor/Outdoor, Plastic Wall-Mount Cabinet. System Requirements: Rain Bird LXIVM-XXX Integrated Valve Modules & 2-Wire Devices. Use Paige Electric Cable P7072D & Rain Bird WC20 Dry Splices ONLY. Ground System w/ (X) LXIVMSD Surge Device in Rain Bird Round Valve Boxes. Install Per Manufacturers Recommendations.Rain Bird WR2-RC Wireless Rain Sensor Combo, includes 1 receiver and 1 rain sensor transmitter.	QTY 1 1 1
SYMBOL T T T T T T T T T T T T T	MANUFACTURER/MODEL/DESCRIPTIONRain Bird 44-RC 1"1in. Brass Quick-Coupling Valve, withCorrosion-Resistant Stainless Steel Spring, ThermoplasticRubber Cover, and 2-Piece Body.Shut Off ValveRain Bird EFB-CP-PRS-D 1"1in., 1-1/4", 1-1/2in., 2in. Brass Master Valve, that isContamination Proof w/Self-Flushing Filter Screen.Globe Configuration, Reclaimed Water Compatible, andPurple Handle Cover Designates Non-Potable Water Use.With Pressure Regulator.Rain Bird ESPLXIVM60 Station, 2-Wire Controller w/ Smart ValveTechnology. (1) ESPLXIVM 60-Station,Indoor/Outdoor, Plastic Wall-Mount Cabinet. SystemRequirements: Rain Bird LXIVM-XXX Integrated ValveModules & 2-Wire Devices. Use Paige Electric CableP7072D & Rain Bird WC20 Dry Splices ONLY. GroundSystem w/ (X) LXIVMSD Surge Device in Rain BirdRound Valve Boxes. Install Per ManufacturersRecommendations.Rain Bird WR2-RCWireless Rain Sensor Combo, includes 1 receiver and 1rain sensor transmitter.Rain Bird FS-200-B2in. Flow Sensor, Brass Model. Suggested OperatingRange 10 GPM to 100 GPM. Size for Flow NotAccording to Pipe Size. Rain Bird Compatible Controllers:ESP-LXIVM(P) LXD LXME2(P) ME3, orControllers Accepting Custom K-Factor and Offset.Install in Rain Bird Valve Box.	QTY 1 1 1 1 1 1 1 1 1 1 1
SYMBOL	MANUFACTURER/MODEL/DESCRIPTIONRain Bird 44-RC 1"1in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, and 2-Piece Body.Shut Off ValveRain Bird EFB-CP-PRS-D 1"1in., 1-1/4", 1-1/2in., 2in. Brass Master Valve, that is Contamination Proof w/Self-Flushing Filter Screen. Globe Configuration, Reclaimed Water Compatible, and Purple Handle Cover Designates Non-Potable Water Use. With Pressure Regulator.Rain Bird ESPLXIVM 60 Station, 2-Wire Controller w/ Smart Valve Technology. (1) ESPLXIVM 60-Station, Indoor/Outdoor, Plastic Wall-Mount Cabinet. System Requirements: Rain Bird LXIVM-XXX Integrated Valve Modules & 2-Wire Devices. Use Paige Electric Cable P7072D & Rain Bird WC20 Dry Splices ONLY. Ground System w/ (X) LXIVMSD Surge Device in Rain Bird Round Valve Boxes. Install Per Manufacturers Recommendations.Rain Bird WR2-RC Wireless Rain Sensor Combo, includes 1 receiver and 1 rain sensor transmitter.Rain Bird FS-200-B 2in. Flow Sensor, Brass Model. Suggested Operating Range 10 GPM to 100 GPM. Size for Flow Not According to Pipe Size. Rain Bird Compatible Controllers: ESP-LXIVM(P) LXD LXME2(P) ME3, or Controllers Accepting Custom K-Factor and Offset. Install in Rain Bird Valve Box.Amiad 2-T-S-SCAN-Steel Screen 200mm Amiad 2in. T-Super Scanaway Manual Plastic Filter, NPT thread, Steel Screen Element. Clogging Indicator Kit. Engineered-plastic material, maximum working pressure	QTY 1

IRRIGATION PLAN SPECIFICATIONS

IRRIGATION SPECIFICATIONS

PART I - GENERAL

1.1 SUMMARY

Work to be done includes all labor, materials, equipment and services required to complete the Project irrigation system as indicated on the Construction Drawings, and as specified herein. Includes but is not limited to: Furnishing and installing underground and above ground sprinkler system complete with any accessories necessary for proper function and operation of the system. All plant material on the Project shall be irrigated. Remove and dispose of any existing sprinkler system components which are disturbed during the construction process and are not to be saved. Restoration of any altered or damaged existing landscape to original state and condition.

- 1.2 SYSTEM DESCRIPTION
- A.Design of irrigation components: Locations of irrigation components on Construction Drawings may be approximate. Piping, sleeving and/or other components shown on Construction drawings may be shown schematically for graphic clarity and demonstration of component groupings and separations. All irrigation components shall be placed in landscaped areas, with the exception of pope and wire in sleeving under hardscapes. Actual routing of pipe, wire or other components may be altered due to site conditions not accounted for in the design process.
- B.Construction requirements: Actual placement may vary as required to achieve a minimum of 100% coverage without overspray onto hardscape, buildings or other features.
- C. Layout of Irrigation Components: During layout and staking, consult with Owner Approved Representative (hereafter referred to as OAR) to verify proper placement of irrigation components, and to provide Contractor recommendations for changes where revisions may be advisable. Small or minor adjustments to system layout are permissible to avoid existing field obstructions such as utility boxes or street light poles. Contractor shall place remote control valves in groups as practical to economize on quantity of manifold isolation valves. Quick coupler valves shall be placed with manifold groups and protected by manifold isolation valves. Quick coupler valves are shown on Construction Documents in approximate locations.
- 1.3 DEFINITIONS
- A.Water Supply: Secondary water piping and components, furnished and installed by others to provide irrigation water to this Project, including but not limited to filter, saddles, nipples, spools, shut off valves, corporation stop valves, water meters, pressure regulation valves, and piping upstream of (or prior to) the Point of Connection.
- B.Point of Connection: Location where the Contractor shall tie into the water supply. May require filter, saddle, nipples, spools, isolation valves or Stop and Waste valve for landscape irrigation needs and use.
- C. Main Line Piping: Pressurized piping downstream of the Point of Connection to provide water to remote control valves and quick couplers. Normally under constant pressure.
- D. Lateral Line Piping: Circuit piping downstream of remote control valves to provide water to sprinkler heads, drip systems or bubblers
- 1.4 REFERENCES
- A.The following standards will apply to the work of this Section:
- a. ASTM-American Society for Testing and Materials
- b. IA The Irrigation Association: Main BMP Document, Landscape Irrigation Scheduling and Water Management Document.
- 1.5 SUBMITTALS
- A.At least thirty (30) days prior to ordering of any materials, the Contractor shall provide manufacturer catalog cut sheet and current printed specifications for each element or component of the irrigation system. Submittals shall be in three ring binders or other similar bound form. Provide five copies of submittals to OAR for distribution. Place cover or index sheet indicating order in submittal document. No material shall be ordered, delivered or any work preceded in the field until the required submittals have need reviewed in its entirety and stamped approved. Delivered material shall match the approved samples.
- B.Operation and Maintenance Manual:
- a. At least thirty (30) days prior to final inspection, the Contractor shall provide Operation and Maintenance manual to OAR, containing:
- i. Manufacturer catalog cut sheet and current printed specifications for each element or component of the irrigation system.
- ii. Parts list for each operating element of the system
- iii.Manufacturer printed literature on operation and maintenance of operating elements of the system.
- iv.Section listing instructions for overall system operation and maintenance. Include directions for Spring Start-up and Winterization.
- b. Project Record Copy
- i. Maintain at project site one copy of all project documents clearly marked "Project Record Copy". Mark any deviation in material installation on Construction drawings. Maintain and update drawing at least weekly. Project Record Copy to be available to OAR on demand.
- ii. Completed Project As-Built Drawings
- 1. Prior to final inspection, prepare and submit to OAR accurate as-built drawings
- 2. Show detail and dimension changes made during installation. Show significant details and dimensions that were not
- shown in original Contract Documents. 3. Field dimension locations of sleeving, points of connection, main line piping, wiring runs not contained in main line pipe
- trenches, valves and valve boxes, quick coupler valves. 4. Dimensions are to be taken from permanent constructed surfaces, features, or finished edges located at or above finished
- grade. 5. Controller Map: upon completion of system, place in each controller a color coded copy of the area that controller
- services: indicating zone number, type of plant material and location on project that zone services. Laminate map with heat shrink clear plastic.
- 1.6 QUALITY ASSURANCE
- A.Acceptance: Do not install work in this section prior to acceptance by OAR.
- B. Regulatory Requirements: All work and materials shall be according to any and all rules, regulations or codes, whether they are State or Local laws and ordinances. Contract documents, drawings or specifications may not be construed or interpreted to permit work or materials not conforming to the above codes.
- C. Adequate Water Supply: Water supply to this Project exists, installed by others. Connections to these supply lines shall be by this Contractor. Verify that proper connection is available to supply line and is of adequate size. Verify that secondary connection components may be installed if necessary. Perform static pressure test prior to commencement of work. Notify OAR in writing of problems encountered prior to proceeding.
- D. Workmanship and Materials:
- a. It is the intent of this specification that all material herein specified and shown on the construction documents shall be of the highest quality available and meeting the requirements specified.
- b. All work shall be performed in accordance with the best standards of practice relating to the trade.
- E.Contractor Qualifications:
- a. Contractor shall provide document or resume including at least the following items:
- i. That Contractor has been installing sprinklers on commercial projects for five previous consecutive years.
- ii. Contractor is licensed to perform Landscape and Irrigation construction in the State of this Project. iii.Contractor is bondable for the work to be performed.
- iv.References of five projects of similar size and scope completed within the last five years. Three of the projects listed shall be local.
- v. Listing of suppliers where materials will be obtained for use on this Project.
- vi.Project site Foreman or Supervisor has at least five consecutive years of commercial irrigation installation experience. This person shall be a current Certified Irrigation Contractor in good standing as set forth by the Irrigation Association. This person shall be on Project site at least 75% of each working day.
- vii. Evidence that Contractor currently employs workers in sufficient quantities to complete Project within time limits
- that are established by the Contract. viii. All General laborers or workers on the Project shall be previously trained and familiar with sprinkler installation
- and have a minimum of one-year experience. Those workers performing tasks related to PVC pipe shall have certificates designated below.
- 1.7 DELIVERY-STORAGE-HANDLING
- A.During delivery, installation and storage of materials for Project, all materials shall be protected from contamination, damage, vandalism, and prolonged exposure to sunlight. All material stored at Project site shall be neatly organized in a

- compact arrangement and storage shall not disrupt Project Owner or other trades on Project site. A installed shall be handled by Contractor with care to avoid breakage or damage. Damaged materials a Contractor shall be replaced with new at Contractor's expense.
- 1.8 SEQUENCING
- A.Perform site survey, research utility records, contact utility location services. The Contractor shall fam all hazards and utilities prior to work commencement. Install sleeving prior to installation of concrete permanent site elements. Irrigation system Point of Connection components, backflow prevention a regulation devices shall be installed and operational prior to all downstream components. All main lin thoroughly flushed of all debris prior to installation of any sprinkler heads. 1.9 WARRANTY

A.Contractor shall provide one year Warranty. Warranty shall cover all materials, workmanship and labo include filling and or repairing depressions or replacing turf or other plantings due to settlement of it irrigation system elements. Valve boxes, sprinklers or other components settled from original finish g restored to proper grade. Irrigation system shall have been adjusted to provide proper, adequate cove

- 1.10 OWNER'S INSTRUCTION
- A.After system is installed, inspected, and approved, instruct Owner's Representatives in complete ope maintenance procedures. Coordinate instruction with references to previously submitted Operation a Manual
- 1.11 MAINTENANCE
- A.Furnish the following items to Owner's Representative:
- a. Two quick coupler keys with hose swivels.
- b. One of each type or size of quick coupler valve and remote control valve. Five percent of total q each sprinkler and sprinkler nozzle.
- B. Provide the following services:
- a. Winterize entire irrigation system installed under this contract. Winterize by 'blow-out' method u Compressor shall be capable of minimum of 175 CFM. This operation shall occur at the end of f after need for plant irrigation but prior to freezing. Compressor shall be capable of evacuating s pressure regulation devices. Compressor shall be regulated to not more than 60 PSI. Start up sys spring after danger of freezing has passed. Contractor shall train Owner's Representative in prop winterization procedure.
- PART 2 PRODUCTS
- 2.1 GENERAL NOTES A.Contractor shall provide materials to be used on this Project. Contractor shall not remove any mater Project from the Project Site, nor mix Project materials with other Contractor owned materials. Own purchase and provide project material.
- 2.2 POINT OF CONNECTION
- A.The Contractor shall connect onto existing irrigation or water main line as needed for Point(s) of Co shall install new main line as indicated.
- 2.3 CONNECTION ASSEMBLY
- A.Secondary water shall be used on this Project. Install filter and RPZ as needed. 2.4 CONTROL SYSTEM
- A.Power supply to the irrigation controller shall be provided for by this Contract. B. Controller shall be as specified in the drawings. Controller shall be surge protected.
- a. Installation of wall-mount/ground pedestal timer controllers: Irrigation contractor shall be response
- Power configuration for wall-mount/ground pedestal timer controllers shall be 120 VAC unless b. Locate Controller(s) in general location shown on Construction drawings. Coordinate power sup allocation with electrical contractor. Contractor shall be responsible for all power connections whether they are wall mount or pedestal mount. Contractor shall coordinate with electrical or ot
- needed to facilitate installation of power to controllers. C. Wires connecting the remote control valves to the irrigation controller are single conductors, type PE
- shall incorporate a solid copper conductor and polyethylene (PE) insulation with a minimum thickness The wires shall be UL listed for direct burial in irrigation systems and be rated at a minimum of 30 V. Co., LP specification number P7079D.
- a. A minimum of 24" of additional wire shall be left at each valve, each splice box and at each cont b. Common wire shall be white in color, 12 gauge. Control wire shall be red in color, 14 gauge. Spa
- shall be looped within each valve box of the grouping it is to service. D. RCV wire splicing connectors shall be 3M brand DBY or DBR. Wire splicing between controller a avoided if at all possible. Any wire splices shall be contained within a valve box. Splices within a valve
- no control valves shall be stamped 'WIRE SPLICE' or 'WS' on box lid. 2.5 SLEEVING

A.Contractor shall be responsible to protect existing underground utilities and components. Sleeving m Sleeving 2" through 4" in size shall be S/40 PVC solvent weld. Sleeving 6" and larger shall be Sleeve diameter shall be at least two times the diameter of the pipe within the sleeve. Sleeves shall be minimum beyond walk or edge of pavement. Wire or cable shall not be installed in the same sleeve a installed in separate sleeves. Sleeve ends on sleeve sizes 4" and larger shall be capped with integral con PVC slip cap, pressure fit, until used, to prevent contamination. Sleeves shall be installed at appropria line pipe or lateral pipe.

2.6 MAIN LINE PIPE A.All main line pipe 4" and larger shall be Class 200 gasketed bell end. All main line pipe 3" in size and

Schedule 40 PVC solvent weld bell end.

a. Maxımuı	m flows allowed through main line pipe shall l
/4"	8 GPM
"	12 GPM
-1/2"	30 GPM
	53 GPM
-1/2"	75 GPM
	110 GPM
"	180 GPM

b. Main line pipe shall be buried with 24" cover

2.7 MAIN LINE FITTINGS

- A.All main line fittings 3" and larger shall be gasketed ductile iron material. All ductile iron fittings havin direction shall have proper concrete thrust block installed. All main line fittings smaller than 3" in size 80 PVC.
- 2.8 ISOLATION VALVES
- A.Isolation valves 3" and larger shall be Waterous brand model 2500 cast iron gate valve, resilient wedg 2" square operating nut. Place sleeve of 6" or larger pipe over top of valve vertically and then extend round valve box over sleeve at grade.
- B. Isolation valves 2-1/2" and smaller shall be Apollo brand 70 series brass ball valves, contained in a valve box. Valves shall be installed with S/80 PVC TOE Nipples on both sides of the valve. Valve s the handle is vertical toward the top of the valve box in the 'off' position.
- 2.9 MANIFOLDS
- A.Action Manifold fittings shall be used to create unions on both sides of each control valve, allowing t removed from the box without cutting piping. Valves shall be located in boxes with ample space surr allow access for maintenance and repair. Where practical, group remote control valves in close proxim each grouping with a manifold isolation valve as shown in details. Manifold Main Line (or Sub-Main I manifold components and isolation valves shall be at least as large as the largest diameter lateral serve manifold.
- 2.10 REMOTE CONTROL VALVES
- A.Remote control valves shall be as specified on the drawings. Remote control valves shall be located individually in separate control boxes.

ISSUE	DATE	PROJECT NUMBER	PLAN INFORMATION	PROJECT INFORMATI
3	/26/2024	NUT24038		
NO.	REVISION	DATE	O11 BLUE STAKES OF UTAH	
1	XXXX	XX-XX-XX		
2			www.bluestakes.org	7
3				I
4				
5			0' 25' 50' 100' 200'	
6				
7			GRAPHIC SCALE: 1" = 50'	

	ll material to be	2.11 MANUAL CONTROL VALVES	sections that can be isolated.	00 Day Establishment Davied Irrigation Schedule
	attributed to	A.Quick coupler valve shall be attached to the manifold sub-main line using a Lasco G17S212 swing joint assembly with	C. Contractor shall provide pressurized water pump to increase or boost pressure where existing static pressure is less than	90 Day Establishment Period Irrigation Schedule
		snap-lock outlet and brass stabilizer elbow. Quick coupler valve shall be placed within a Carson 10" round valve box. Top	100 psi.	Hi Water Use TURF MP ROTATOR .5 INCH 15 MIN. Participate in a water check to determine
 And And And And And And And And And And	miliarize himself with	operation of key. Base of quick coupler valve and top of quick coupler swing joint shall be encased in ³ /4" gravel.	D. Schedule testing with OAR 48 hours in advance for approval.	Xeric Water Use SHRUBS DRIP 2 GAL/HR. 2 HOURS 2 HOURS 2 HOURS Precipitation rate of spinitive system.
	te, paving or other	Contractor shall not place quick coupler valves further than 200 feet apart, to allow for spot watering or supplemental	E. Leaks or defects shall promptly be repaired or rectified at the Contractors expense and retested until able to pass testing.	Note: Begin irrigation 4:00 am. Use cycle and soak method in clay soils-divide into 3 waterings for each turf irrigation event. Shrubs to be watered so soil is moist 6" below root ball. Do not overwater shrubs, allow to dry between waterings especially in clay soils. Watch for water stress.
	and pressure	irrigation of new plant material. Quick coupler valve at POC shall not be eliminated or relocated.	F. Grounding resistance at pedestal controller shall also be tested and shall not exceed 5 OHMs.	Regular Irrigation Schedule: Begin Spring Watering May 15 (Turf irrigation event once every 5-7 days; Shrubs 2-4 times/month)
	ines shall be	2.12 LATERAL LINE PIPE	3.10 ADJUSTMENT	Hi/Low Water Use Zones TYPE IR HEAD AMT. H20 SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY
		typically. Lateral pipe shall be ³ /4", 1", 1 ¹ /4", 1 ¹ /2" or 2" in size as indicated on Construction Drawings.	A.Sprinkler heads shall be adjusted to proper height when installed. Changes in grade or adjustment of head height after installation shall be considered a part of the original contract and at Contractor's expense.	Hi Water Use I URF MP ROTATOR .5 INCH 60 MIN. Participate in a water check to determine Medium to Low Water Use SHRUBS DRIP 2 GAL/HR. 2 HOURS precipitation rate of sprinkler system.
 A set of a set of	oor. Warranty shall	2.13 LATERAL LINE FITTINGS	B Adjust all sprinkler heads for arc radius proper trim and distribution to cover all landscaped areas that are to be irrivated.	Xeric Water Use SHRUBS DRIP No Water Note: Begin irrigation 4:00 am Use cycle and soak method in clay soils-divide into 3 waterings for each turf irrigation event
 Harra II. Harra II.	irrigation trenches or	A.All lateral line fittings shall be S/40 PVC	C. Adjust sprinklers so they do not water buildings structures or other bardscape features	Do not overwater shrubs, allow to dry between waterings especially in clay soils. Watch for water stress. Days of watering may vary based on local restrictions
	grade shall be verage of irrigated	2.14 SPRAY SPRINKLERS	\mathbf{D} Adjust run times of station to meet needs of plant material the station services	Regular Irrigation Schedule: Begin Summer Watering June 15 (Turf irrigation event once every 2-3 days; Shrubs 1 time/week)
 A - MAC A - Matter and A - Martine a	eruge of migated	A.Spray head sprinklers shall be as specified on the drawings. Nozzles shall be as specified on the drawings.	3.11 CLEANING	Hi/Low Water Use Zones TYPE IR HEAD AMT. H20 SUNDAY MONDAY TUESDAY MENESDAY FRIDAY SATURDAY Hi Water Use TURF MP ROTATOR 5 INCH 60 MIN. 60 MIN. 60 MIN. Participate in a water check to determine
	:	2.15 VALVE BOXES	A Contractor shall be responsible for cleanliness of jobsite. Work areas shall be swept cleanly and picked up daily.	Medium to Low Water Use SHRUBS DRIP 2 GAL/HR. 2 HOURS precipitation rate of sprinkler system. Xeric Water Use SHRUBS DRIP 2 GAL/HR. 1 HOURS 1 HOURS
 And A. A.	eration and	A. Rainbird valve boxes shall be used on this project. Sizes are as directed in these Specifications, detail sheets or plan	B Open trenches or hazards shall be protected with vellow caution tape	Note: Begin irrigation 4:00 am. Use cycle and soak method in clay soils-divide into 3 waterings for each turf irrigation event.
	and Maintenance	sheets. Valve boxes shall be centered over the control valve or element they cover. Valve box shall be sized large enough	C. Contractor is responsible for removal and disposal of offsite trash and debris generated as a result of this Project	Do not overwater shrubs, allow to dry between waterings especially in clay soils. Watch for water stress. Days of watering may vary based on local restrictions Reference Utah DNR weekly watering guide: https://conservewater.utah.gov/weekly-lawn-watering-guide/
		to allow ample room for services access, removal or replacement of valve or element. Valve box shall be set to flush to finish grade of topsoil or barked areas. Contractor shall provide extensions or stack additional valve boxes as necessary to	D OAR shall perform periodic as well as a final cleanliness inspection	Regular Irrigation Schedule: Begin Fall Watering September 1-End Fall Watering October 15 (Turf irrigation event once every 5-7 days; Shrubs 2-4 time/month)
 A ref al and a set al and a set		bring valve box pit to proper grade.	E Contractor shall leave Project in at least a 'broom clean' condition	Hi/Low Water Use Zones TYPE IR HEAD AMT. H20 SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY FRIDAY SATURDAY
 Alexand and a property of a propert	:	2.16 IMPORT BACKFILL	END OF SECTION	Medium to Low Water Use SHRUBS DRIP 2 GAL/HR. 2 HOURS Precipitation rate of sprinkler system.
 Martin Martin Mar	quantities used of	A.All main line pipe, lateral line pipe and other irrigation elements shall be bedded and backfilled with clean soil, free of		Xeric Water Use SHRUBS DRIP No Water Note: Begin irrigation 4:00 am. Use cycle and soak method in clay soils-divide into 3 waterings for each turf irrigation event.
	quantities used of	rocks 1" and larger. Contractor shall furnish and install additional backfill material as necessary due to rocky conditions.	IRRIGATION NOTES	Do not overwater shrubs, allow to dry between waterings especially in clay soils. Watch for water stress. Days of watering may vary based on local restrictions
 Instrumentation of a second sec		operations un-usable for fill shall be removed from project and disposed of properly by Contractor.		
 Antipati de la calenda de la ca	using compressed air.	2.17 OTHER PRODUCTS	1. BEFORE WORK IS TO COMMENCE, BLUE STAKES/DIG LINE IS TO BE CALLED AND NOTIFIED. IF ANY DAMAGE TO CONSTRUCTION, THE CONTRACTOR SHALL REPAIR IT AT THEIR EXPENSE WITH NO ADDITIONAL COST TO T	HE OWNER.
 Series (Series (S	f first growing season	A.Substitution of equivalent products is subject to the OAR's approval and must be designated as accepted in writing.	2. CONTRACTOR SHALL APPLY AND PAY FOR ALL NECESSARY PERMITS IN ACCORDANCE WITH CITY AND/OR COUNTY	CODES AND COMPLY WITH SPECIFICATIONS AND
 Kata and Kata and	system of all water	a. The Contractor shall provide materials to make the system complete and operational.	DRAWINGS.	
 Postor Postor Pos	oper start-up and	PART 3 - EXECUTION	3. INVESTIGATE TO MAKE SURE THAT THE IRRIGATION SYSTEM IS, IN FACT, BEING CONNECTED TO A SECONDARY SY CONTACT THE OWNER AND LANDSCAPE ARCHITECT TO COORDINATE A CULINARY SYSTEM AND REOUIRED COMP	(STEM. IF IT IS NOT CONNECTED TO SECONDARY, ONENTS. A FUNCTIONING AMIAD FILTER IS TO BE USED
 A status of s		3.1 PREPARATION	AT THE POINT OF CONNECTION.	
 Hand San San San San San San San San San San		A.Contractor shall repair or replace work damaged by irrigation system installation. If damaged work is new repair or	4. VERIFY THAT THE POINT OF CONNECTION IS IN THE CORRECT LOCATION BEFORE INSTALLATION. ALL CONNECTIONS SHOLD BE NOTED AS SUCH. THEREEORE ALL DARTS MUST MEET WATER STANDARDS THAT REPTAND TO SUCCESS	ONS ON THIS PROJECT ARE TO SECONDARY WATER AND ARY WATER USE PURPLE VALVE BOYES FOR SECONDARY
 A start of a start o		replacement shall be performed by the original installer of that work. The existing landscape of this Project shall remain	WATER SYSTEMS.	ART WATER. OOF FURILE VALVE DUALD FUR DECONDART
 And Anderson and Antipart and A	rial purchased for this	in place. Contractor shall protect and work around existing plant material. Coordination of trench and valve locations shall be laid out for the OAR prior to any excavation occurring. Plant material deemed damaged by the OAR shall be	5. ON OCCASION AND FOR GRAPHIC PURPOSES ONLY, THE IRRIGATION SYSTEM MIGHT BE SHOWN IN HARDSCAPE AR	EAS. THIS IRRIGATION IS TO BE PLACED IN LANDSCAPED
 And Series and Serie	ner retains right to	replaced with new plant material at Contractor's expense. Contractor shall not cut existing tree roots larger than 2" to	AREAS ON THE PROPERTY SITE.	
 Martin Martin Mar		install this Project. Route pipe, wire and irrigation elements around tree canopy drip line to minimize damage to tree	 CONTRACTOR SHALL USE ONLY COMMERCIAL GRADE IRRIGATION PRODUCTS. THIS INCLUDES PIPE TO BE SCHEDUL FITTINGS UP TO 1-1/2" MUST BE SCHEDULE 40 OR BETTER. FITTINGS LARGER THAN 1-1/2" SHALL BE SCHEDULE 80 O 	LE 40 PVC OK BETTER. NO POLY PIPE IS TO BE USED. IR BETTER. CONTRACTOR IS RESPONSIBLE FOR ENSURING
 A Region and a second se	onnection. Contractor	than 24 hours at a time.	ACCURATE COUNTS AND QUANTITIES OF ALL IRRIGATION MATERIALS FOR BIDDING AND INSTALLATION.	
 Alexanda de la construcción de la cons	:	3.2 TRENCHING AND BACKFILLING	7. MAIN LINES SHALL BE A MINIMUM OF 24" DEEP AND LATERAL LINES A MINIMUM OF 12" DEEP. NO ROCK GREATER TRENCHING BACKELL MATERIAL SHALL BE COMPACTED TO PROPER EINISHED GRADE	THAN 1/2" DIAMETER SHALL BE ALLOWED IN TRENCHES.
 And and a second second		A.Pulling of pipe shall not be permitted on this project. Over excavate trenches both in width and depth. Ensure base of	8 NO IRRIGATION MAIN LINE MAY BE LOCATED WITHIN 5 FEET OF ANY STRUCTURE	
 Handbard S. S. Series and Serie		trench is rock or debris free to protect pipe and wire. Grade trench base to ensure flat, even support of piping. Backfill	9. TO AVOID PIPE DAMAGE, ADJUST LOCATION OF PIPE TO NOT BE DIRECTLY UNDER PLANT MATERIALS, VALVE BOX	ES ARE PREFERRED TO BE IN PLANTER BEDS INSTEAD OF
 A result of a res		with clean soil or import material. Contractor shall backfill no less than 2" around entire pipe with clean, rock free fill. Main line piping and fittings shall not be backfilled until OAR has inspected and pipe has passed pressure testing.	THE LAWN. SYSTEM IS TO BE WINTERIZED IN THE LATE FALL.	
 Image: Source of the second sec		Perform balance of backfill operation to eliminate any settling.	10. PLAN INDICATES 100% OR BETTER HEAD TO HEAD COVERAGE. SHOULD CONTRACTOR FIND DISCREPANCIES DUE T LANDSCADE ARCHITECT FOR IRRIGATION CORRECTION	I'O NECESSARY FIELD ADJUSTMENTS, CONTACT
 Additional and a program and a	:	3.3 SLEEVING	11 DRID IRRIGATION TO BE INSTALLED PER DETAILS CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TURING	SHOLU D REST TOWARD OUTER EDGE OF ROOTRALL AND
 Martine Same Same Same Same Same Same Same Sam	oonsible for this task.	A.Sleeve all piping and wiring that pass under paving or hardscape features. Wiring shall be placed in separate sleeving from	NOT AGAINST TRUNK OF PLANT.	
 A service of service	ss otherwise noted.	piping. Sleeves shall be positioned relative to structures or obstructions to allow for pipe or wire within to be removed if	12. A QUICK COUPLER SHALL BE INSTALLED AT POINT OF CONNECTION TO ALLOW BLOW OUT OF SYSTEM BY AIR COM	IPRESSOR AT END OF EACH SEASON.
 And and a set of a set of	apply and breaker to Controllers,	34 CRADES AND DRAINAGE	13. INSTALL SLEEVES FOR ALL PIPES AND WIRE CONDUIT THAT ARE PLACED UNDER PAVEMENT AND SIDEWALKS. SLE	EVES SHALL BE 2 SIZES LARGER THAN PIPE BEING
 American Series and Seri	other Project trades as	A Place irrigation pipe and other elements at uniform grades. Winterization shall be by evacuation with compressed air	14 CONDUITS CAN NOT BE SHARED BY WATER AND ELECTRICALLINES ALL WIRE TO BE DIT IN DVC CONDUIT ALL W	IT OCCURS, A JUNCTION BOX IS TO FLACED.
 Martia Barage and Samphane and		Automatic drains shall not be installed on this Project. Manual drains shall only be installed at POC where designated on	WIRE CONNECTIONS TO USE WATERPROOF WIRE CONNECTORS WITH AT LEAST 3' OF EXTRA WIRE. PROVIDE PLEN	TY OF EXTRA WIRE AT EVERY DIRECTIONAL CHANGE.
 Martine A and a second s	E. Wire construction	Construction Drawings.	INSULATED 14 GAUGE COPPER TO BE USED FOR ALL CONTROL WIRES AND INSTALLED PER MANUFACTURER'S SPEC	LIFICATIONS.
 Add part of constraints and part of the const	VAC. Paige Electric	3.5 PVC PIPE	15. CONTRACTOR TO INSTALL LIGHTNING ARRESTOR AND GROUNDING RODS ON SITE PER MANUFACTURER'S RECOM	MENDATIONS, SEE DETAILS.
 All and set all constraints of the set of		A.Install pipe to allow for expansion and contraction as recommended by pipe manufacturer.	16. CONTRACTOR TO SEPARATE SYSTEM (CONTROLLER, VALVES, AND DIFFERENT COLORED WIRE) FROM CITY MAINTA PROPERTY.	AINED PROPERTY AND HOA/OWNER MAINTAINED
 Adam Jaka Jawa Jawa Jawa Jawa Jawa Jawa Jawa	ntroller.	B. Install main line pipes with 18" of cover, lateral line pipes with 12" of cover.	17. DUCT TAPE ALL SLEEVES TO PREVENT SOIL OR OTHER DEBRIS ENTERING PIPE. IDENTIFY ALL SLEEVES BY WOOD	OR PVC STAKES AND SPRAY PAINT WITH MARKING PAINT.
 And Angele And Angele And Angele And Angele And Angele And Angele Angele	pare/extra wire (3 ft.)	C. Drawings show diagrammatic or conceptual location of piping - Contractor shall install piping to minimize change of	REMOVE STAKES ONCE IRRIGATION SYSTEM IS COMPLETE.	
 A specific and a specif	1 1 1 11	D. Diastia aire shall be gut agreen by Rurre shall be removed. Spiget and of aires 22 and larger shall be beyeded	18. TO PREVENT EROSION AND LOW POINT DRAINAGE CONTRACTOR SHALL INSTALL CHECK VALVES	
 And Series and Serie	ve box that contains	E Pipe shall not be dued unless ambient temperature is at least 50 degress E. Pipe shall not be dued in rainy conditions	19. LOCATE SPRAY HEADS NO CLOSER THAN 6" FROM WALLS, FENCES OR BUILDINGS AND 2" AWAY FROM WALKS, PATE 20. DRESSURE TEST MADULDUE FOR LEAKS DRIOD TO BACKETULDUC, CONTACTUADUSCADE ADDUTECT (OWNER ATTTIN	AS OR CURBS.
 additional generation of the second se		unless properly tented. All solvent weld joints shall be assembled using IPS 711 glue and P70 primer according to	20. PRESSURE TEST MAINLINE FOR LEAKS PRIOR TO BACKFILLING. CONTACT LANDSCAPE ARCHITECT/OWNER AT THR	STIME FOR COMPLIANCE.
 a mark of the second sec		manufacturer's specification, no exceptions. All workers performing glue operations shall provide evidence of	21. CONTRACTOR TO CONSULT WITH OWNER ON EXACT LOCATION OF CONTROLLER. CONTRACTOR TO COORDINATE POWER SUPPLY. INSTALL ALL PER MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL INSTALL A RAIN SENSO	R WITH THE CONTROLLER UNLESS OTHERWISE DIRECTED
 All Poly and poly	ninimum size shall be	certification. Glued main line pipe shall cure a minimum of 24 hours prior to being energized. Lateral lines shall cure a minimum of 2 hours prior to being energized and shall not remain under constant pressure unless cured for 24 hours.	BY OWNER OR LANDSCAPE ARCHITECT.	
segment and a segment and a segment and a segment and a set of a segment and a set of a segment and a set of a set of a segment and a set of a set	e extended 6"	F. Appropriate thrust blocking shall be performed on fittings 3" and larger. All threaded joints shall be wrapped with Teflon	22. LATERAL LINES SHALL BE NO SMALLER THAN 3/4". LANDSCAPE CONTRACTOR TO ENSURE THE FOLLOWING PIPE SI BELOW:	IZES DO NOT EXCEED THE SUGGESTED GPM LISTED
 Marked Wardson Wa	as piping, but shall be	tape or paste unless directed by product manufacturer or sealing by o-ring.	I 3/4" 8 GPM	
 All generation of probability of proba	orresponding sized	3.6 CONTROLLERS	II 1" 12 GPM	
 Automation (a) 4 2 Max. Automatical (a) 4 Max. Automatica	late depuis for main	A.All grounding for pedestal controllers shall be as directed by controller manufacturer and ASIC guidelines, not to exceed	III 1-1/2 30 GPM IV 2" 53 GPM	
Berly Arth Close intermeter production reprinting to reproduce through due to the set in the set intermeter production reprinting to reproduce through and the set intermeter production reprinting to the set intermeter production of production reprinting to reproduce the set intermeter production reprinting to r		a resistance reading of 5 OHMs.	V = 2-1/2, $75 GPM = = = = = = = = = = = = = = = = = = =$	
 Above the traces of will have a constructive state adding to trace of the final if cancer of the fina	d smaller shall be	B. Locate controllers in protected, inconspicuous places, when possible. Coordinate location of pedestal controllers with Landscape Architect to minimize visibility	VI 3" 110 GPM VII 4" 180 GPM $ \vec{v} = \vec{v} = \vec{v}$	
 Bartaneous code, Will control the series to series to a series of control to series to a series to a series to a series of control to series to a series to		C Coordinate location of wall mount controllers with building or electrical Contractor to facilitate electrical service and		
 and how can be and board how can be can be careful and board of the control of the		future maintenance needs. Wall mount shall be securely fastened to surface. If exterior mounted, wall mount controllers		DRY MOUNTAIN DRIVE
Possibility of the serve and t		shall have electrical service wire and field control wire in separate, appropriate sized weatherproof electrical conduit, PVC pipe shall not be used		
Answer of the conduct server of the formal server content of here formations in the content of the formal server content of here formations in the content of the formal server content of here formations in the content of the formation in the formation in the content of the formation in		$_{\rm P-P}$ - sum not se used. D. Wiring under hardscape surfaces shall be placed continuously in conduit. Contractor shall be responsible to coordinate		
 Part and both due base have full be located area on the full be sended area on the full b		sleeving needs for conduit or sweeps elbows from exterior to interior of building.		
shall be shared or with the form of the resonance in grant could be stored in the share the resonance in t		E. Pedestal controllers shall be placed upon VIT-Strong Box Quick Pad as per manufacturer's recommendations. Controllers	POINT OF CONNECTION.	
In the State of a set of carding the State of the Stat		shall be oriented such that Owner's Representative maintenance personnel may access easily and perform field system	ON TOP OF BACAR-LOW CONTROL OF CO	
apparent will be shown will		E Place Standard value has at have af an stability or nearly to allow for three to five fact of shall field control wire to be		
 spendo ad installation, as well a hook-go to constructive fulle be give for constructive constructive set as well a hook-go to constructive set. For while power into the constructive constructive set as a more for constructive set. For while power into the constructive set as a more for constructive set. For while power into the constructive set. For whi		placed at each controller. This Contractor shall provide conduit access if needed for Electrical Contractor. Electrical		
 and most of constructs is in dange of provides (12° on data if most controller, to orankil decape area. Provide of through to provide of provides (12° on data in most controller, to orankil decape area. Provide of through to prov		supply and installation, as well as hook-up to controller shall be by this Contractor.		
ingedual of other the controller. and notine controller. ingedual point And notine control velocs, and oakk cospiter values shall be insulfid accosfiling to manufacturer seconomodulation and Contracts Specifications and Details. Image: Control velocs in the control velocs in the control velocs. inge path in type, with be second velocs in the control velocs. B Value bose shall be second velocs in the veloc filing to manufacturer seconomodulation and Contracts Specifications and Details. Image: Control veloce in the veloce in the second veloce in the v		G. Electrical contractor is in charge of providing 1.5" conduit from controller to outside landscape area. Provide power		
 at him the Schedule 4' Multes Absolution values, sensore control values, and quick coupler values shall be installed according to manufacturer common hadron and Contract Specifications and Datais. B. Value boxes shall be set over values so that all parts of the value can be eached for service. C. Value box and kid shall be set to be final-hadron final-degrade. Only one remote control values, and quick any be installed in a value box. Bites a minimum of "" of V¹" washed gravel beneath value box for dataings. Borron on formote control values shall be installed according to manufacturer quick shall be installed according to manufacturer ("") of " of V¹" washed gravel beneath value box for dataings. Borron on formote control values shall be parter values of the of V¹" washed gravel beneath value box for dataings. Borron on formote control values shall be parter values of the origin gravel. S. SPRINKLER ILEADS B. Heads ulgare to walks, cont, or path shall be located agravel and 2" may from hardwape. C. Control values shall be opened. Then fails flaub approve to installation of sprinklers. D. Spray heads value to adjust spring to in installation of sprinklers. D. Spray heads value to adjust spring to in installation of sprinklers. D. Spray heads value to adjust shall be to reacting the origin prior to installation of sprinklers. D. Spray heads value to adjust shall be constrained on the opened. Then fails flaub approx on the state of the origin prior to installation of sprinklers. D. Spray heads value to adjust shall be constrained on the opened that and components on the openet. D. Spray heads value to adjust shall be constrained approx of the origin prior to installation of sprinklers. D. Spray heads value to adjust shall be constrained approx of the origin prior to installation of sprinklers. D. Spray he	ving change of	and room for controller. Provide ethernet to hardwire power into the controller.		
 Albedian values, and quale conject values and be installed according to manufacturer recommediation and Contrast Specifications and Details. By push on type, will on grade. Place 10¹⁰ C Value boars shall be set over values so that all parts of the value can be reached for service. C Value boar and id shall be set to be fish with finished pards. Olay one centre control values may be installed in a value how boe. Place arringmus of the '0's' walue boards to during the located at graved boards value boards walue walue boards walue walue boards walue boards walue boards walue walue boards walue boa	ze shall be Schedule	3.7 VALVES		
 Recurstor of the constraint of the value can be nearbed for service. Recurstor shall be service values and all parts of the value can be nearbed for service. Carcon Student site and constraint of value can be nearbed for service. Service Student site and constraint of value can be nearbed for service. Service Student site and constraint of value can be nearbed for service. Service Student site and constraint of value can be nearbed for service. Service Student site and constraint of value can be nearbed for service. Service Student site and constraint of value can be nearbed for service. Service Student site and constraint of value can be nearbed for service. Service Student site and constraint of value can be nearbed for service. Service Student site and constraint of value can be nearbed for service. Service Student site and constraint of value can be nearbed for service. Service Student site and constraint of value can be nearbed for service. Service Student site and student site and constraint of value can be nearbed for service. Service Student site and service serv		A.Isolation valves, remote control valves, and quick coupler valves shall be installed according to manufacturer recommendation and Contract Specifications and Details		
a tregende. Pleer 10 ⁴ C Value hows and lid shall be serie to be fluids with finished grand. Colly one remote control value may be installed in a value box. Place a mainimum of 2 ⁴ of V ⁴ washed gravel beneath value box for deniange. Bottom of remote control value shall be a minimum of 2 ⁴ of V ⁴ washed gravel beneath value box for deniange. Bottom of remote control value shall be placed so that a S SPRINKLER ITEADS A.No sprinkler shall be located closer than 0 ⁴ to valls, (cnecs, or buildings. B. Heads shifteen to walls, cartis, or paths shall be located at gravel aread and 2 ⁴ way from thatscape. C. Control Values shall be opened. Then fully the lateral line pipe and a lowing joins pior to installation of sprinklers. D. Sprin heads shall be esponsible for adjustment if necessary due to grade changes during kindscape construction. 3. FIELD QUALITY CONTROL separately and separately and Separat	lee, push on type, with	B Valve hoves shall be set over valves so that all parts of the valve can be reached for service.		
Caroon Standard size ball be pared on the shall be pared on the sh	d to grade. Place 10"	C. Valve box and lid shall be set to be flush with finished grade. Only one remote control valve may be installed in a valve		
Carson Standard size be a minimum of 2" above gravel. 3.8 SPRINKLER HITADS A.No sprinkler shall be located obcard obcard obcard of "to valls, fences, or buildings. B. Heads adjacent to valks, curbs, or paths shall be located at grade and 2" away from hardscape. Control valves shall be opened. Then fully flush lateral line pipe and swing joints prior to installation of sprinklers. D. Spray heads shall be installed and flushed again prior to installation of nozzles. Line) and all be responsible for adjustment if necessary due to grade changes during landscape construction. 3.9 FIELD QUALITY CONTROL A.Main line pressure test shall include all pipe and components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components from the point of connection to the upstream side of remote control valves. Test shall include all pipe and components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components from the point of connection to the upstream side of remote control valves. Test shall include all pipe and components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components under constant pressure. Piping may be tested in <td></td> <td>box. Place a minimum of 4" of ³/4" washed gravel beneath valve box for drainage. Bottom of remote control valve shall</td> <td></td> <td></td>		box. Place a minimum of 4" of ³ /4" washed gravel beneath valve box for drainage. Bottom of remote control valve shall		
3.8 SPRINKLER HEADS ANo sprinkler shall be located closer than 6" to walls, fences, or buildings. the valve to be rounding them to inity, and protect C. Control valves shall be closed at grade and 2" away from hardscape. D. Spray heads shall be installed and flushed again prior to installation of sprinklers. D. Spray heads shall be installed and flushed again prior to installation of nozzles. E.Contractor shall be responsible for adjustment if necessary due to grade changes during landscape construction. Spray heads shall be opesture test shall include all pripe and components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components under constant pressure. Piping may be tested in	Carson Standard size	be a minimum of 2" above gravel.		
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 the value to be rounding them to imity, and protect Line) and all red by the respective B.Heads adjacent to walks, curbs, or paths shall be located at grade and 2" away from hardscape. C.Control values shall be opened. Then fully flush lateral line pipe and swing joints prior to installation of nozzles. D. Spray heads shall be installed and flushed again prior to installation of nozzles. E.Contractor shall be responsible for adjustment if necessary due to grade changes during landscape construction. Spray heads shall be installed or accepted until the system has been tested for 2 hours at 100 psi. B.Main line pipes shall not be backfilled or accepted until the system has been tested for 2 hours at 100 psi. B.Main line pressure test shall include all pipe and components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components under constant pressure. Piping may be tested in 		A.No sprinkler shall be located closer than 6" to walls, fences, or buildings.		
rounding them to imity, and protect Line) and all red by the respective C. Control valves shall be opened. Then fully flush lateral line pipe and swing joints prior to installation of sprinklers. D. Spray heads shall be installed and flushed again prior to installation of nozzles. E. Contractor shall be responsible for adjustment if necessary due to grade changes during landscape construction. 39 FIELD QUALITY CONTROL A.Main line pipes shall not be backfilled or accepted until the system has been tested for 2 hours at 100 psi. B. Main line pressure test shall include all pipe and components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components under constant pressure. Piping may be tested in	the valve to be	B. Heads adjacent to walks, curbs, or paths shall be located at grade and 2" away from hardscape.		
 mmuty, and protect Line) and all red by the respective b. Spray heads shall be installed and flushed again prior to installation of nozzles. E. Contractor shall be installed and flushed again prior to installation of nozzles. B. Contractor shall be responsible for adjustment if necessary due to grade changes during landscape construction. 3.9 FIELD QUALITY CONTROL A.Main line priess shall not be backfilled or accepted until the system has been tested for 2 hours at 100 psi. B. Main line pressure test shall include all pipe and components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components under constant pressure. Piping may be tested in 	rrounding them to	C. Control valves shall be opened. Then fully flush lateral line pipe and swing joints prior to installation of sprinklers.	$\begin{bmatrix} \frac{\lambda_0}{2} & \frac{\lambda_1}{2} & \frac{\lambda_1}{2} \\ \frac{\lambda_1}{2} & \frac{\lambda_1}{2} \end{bmatrix} = \begin{bmatrix} \frac{\lambda_1}{2} & \frac{\lambda_1}{2} & \frac{\lambda_1}{2} \\ \frac{\lambda_1}{2} & \frac{\lambda_1}{2} & \frac{\lambda_1}{2} \end{bmatrix}$	
E. Contractor shall be responsible for adjustment if necessary due to grade changes during landscape construction. 3.9 FIELD QUALITY CONTROL A.Main line pipes shall not be backfilled or accepted until the system has been tested for 2 hours at 100 psi. separately and B. Main line pressure test shall include all pipe and components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components under constant pressure. Piping may be tested in	imity, and protect in Line) and all	D. Spray heads shall be installed and flushed again prior to installation of nozzles.		
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separately and B. Main line pressure test shall include all pipe and components from the point of connection to the upstream side of remote control valves. Test shall include all manifold components under constant pressure. Piping may be tested in		A.Main line pipes shall not be backfilled or accepted until the system has been tested for 2 hours at 100 psi.		
remote control valves. Lest snall include all manifold components under constant pressure. Piping may be tested in	separately and	B. Main line pressure test shall include all pipe and components from the point of connection to the upstream side of		
		remote control valves. Lest shall include all manifold components under constant pressure. Piping may be tested in		

DEVELOPER / PROPERTY OWNER / CLIENT

EXCEL ENGINEERING ATT: DAVID PETERSON 801-756-4504 DAVID@EXCELCIVIL.COM

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CC CALLAWAY 77 N. SUMMIT RIDGE PARKWAY SANTAQUIN, UTAH

WATERING SCHEDULE

www.pkjdesigngroup.com

N PKJ DESIGN GROUP

ELECTRIC REMOTE-CONTROL VALVE PEB OR PESB SERIES WITH IVM-SOL NOT TO SCALE

ISSUE	DATE	PROJECT NUMBER	PLAN INFORMATION	PROJECT INFORMAT
3	/26/2024	NUT24038		
NO.	REVISION	DATE	O11 BLUE STAKES OF UTAH	
1	XXXX	XX-XX-XX		
2			www.bluestakes.org	
3				
4				
5				
6				
7				

DEVELOPER / PROPERTY OWNER / CLIENT

ATT: DAVID PETERSON 801-756-4504 DAVID@EXCELCIVIL.COM

CC CALLAWAY 77 N. SUMMIT RIDGE PARKWAY SANTAQUIN, UTAH

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POP UP-SPRAY HEAD DETAIL

NOT TO SCALE

PKJ DESIGN GROUP

- (1) MULCH
- FLUSH CAP FOR EASY FIT COMPRESSION FITTINGS: POTABLE:RAIN BIRD MDCFCAP
- EASY FIT COUPLING: RAIN BIRD MDCFCOUP
- SUBTERRANEAN EMITTER BOX: RAIN BIRD SEB 7XB
- 5 ¹/₂" POLYETHYLENE TUBING: RAIN BIRD XF BLANK TUBING
- (6) FINISH GRADE
- (7) PVC EXHAUST HEADER
- 8 PVC SCH 40 TEE OR EL
- BARB X MALE FITTING:
- RAIN BIRD XFF-MA FITTING (TYPICAL) ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFCV DRIPLINE
- 3-INCH MINIMUM DEPTH OF 3/4 " WASHED GRAVEL

NOTE: 1. ALLOW A MINIMUM OF 6-INCHES OF DRIPLINE TUBING IN VALVE BOX IN ORDER TO DIRECT FLUSHED WATER OUTSIDE VALVE BOX.

• ON-SURFACE DRIPLINE FLUSH POINT DETAIL PKJ DESIGN GROUP

- (2) PVC DRIP LATERAL PIPE
- (3) PVC SCH 40 TEE OR EL (TYPICAL)
- (4) ¹/₂" POLYETHYLENE TUBING: RAIN BIRD XF SERIES- S FOR COPPER SHEILD (TYPICAL)
- 5 BARB X BARB INSERT TEE: RAIN BIRD XFF-TEE (TYPICAL)
- 6 PROJECTED CANOPY LINE OF TREE OR SHRUB (TYPICAL)
- ON-SURFACE DRIPLINE: RAIN BIRD XF SERIES DRIPLINE POTABLE: XFCV SERIES PLACE AS SHOWN (LENGTH AS REQUIRED, TYPICAL)
- (8) ROOT BALL (TYPICAL)
- 9 BARB X BARB INSERT CROSS: RAIN RIPD VED CROSS (TYP) RAIN BIRD XFD-CROSS (TYPICAL)
- (10) DRIPLINE FLUSH POINT (SEE RAIN BIRD DETAIL: "XFCV DRIPLINE FLUSH POINT WITH BALL VALVE")
- (1 1) SPACING PER SPECIFICATION
- 12 TIE DOWN STAKE: RAIN BIRD TDS 050
- RAIN BIRD TDS-050 WITH BEND (QUANTITY AS REQUIRED, SEE NOTES 2-3 BELOW)
- (13) POINT SOURCE EMITTERS FOR ESTABLISHMENT PERIOD. REMOVE AFTER ESTABLISHMENT PERIOD.

DEVELOPER / PROPERTY OWNER / CLIENT

ATT: DAVID PETERSON 801-756-4504 DAVID@EXCELCIVIL.COM

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CC CALLAWAY 77 N. SUMMIT RIDGE PARKWAY SANTAQUIN, UTAH

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Item 3.

DRC Members in Attendance: City Engineer Jon Lundell, City Manager Norm Beagley, Public Works Director Jason Callaway, Senior Planner Ryan Harris, Building Official Randy Spadafora, Police Officer Kayson Shepherd, and Fire Department Rep. Allen Duke

Others in Attendance: City Recorder Amalie Ottley, EIT Megan Wilson, Alex Rugg (Centracom), and Logan Moffett (applicant).

Engineer Lundell called the meeting to order at 10:00 a.m.

1. Sutherland Final Plat

A final plat review of a two-lot subdivision located at approximately 565 W. Lark Road. The creation of the new lot (#1) is in addition to an existing home on lot #2.

Building Official Spadafora indicated that addressing has been completed for the subdivision.

Fire Department Representative Allen Duke had no comments.

Public Works Director Callaway had no comments.

Senior Planner Ryan Harris indicated that the mylar version of the plat needs to be updated to reflect a signature block that shows the Planning Commission as the land use authority for the subdivision. He added that a note needs to be added to the plans to state that the subdivision is within 300 feet of a protected agricultural area.

Police Officer Shepherd had no comments.

Manager Beagley confirmed that the existing home on lot #2 does meet setback requirements as set forth by the City Code. He also indicated that as the City does not service the properties with sewer in that area, the homes on both lots will need to use a septic system. Engineer Lundell indicated that the leach field for the existing septic system is not clearly marked on the plans. Engineer Lundell and Manager Beagley went on to say that the applicant will have to confirm with the Utah County Health Department where the septic tanks and corresponding leach fields need to be placed appropriately for each lot. After the applicant receives confirmation from Utah County Health Department regarding the leech fields, they will need to turn that in to the City.

Engineer Lundell pointed out various clean-up items on the application that need to be kept up-to-date and accurate. He indicated that the sewer and water line laterals need to meet specification requirements away from the property line. Members of the DRC discussed specification requirements for traffic rated pressurized irrigation and culinary cans and their location in conjunction with the road and driveway placement. Director Callaway confirmed with Engineer Lundell and Building Official Spadafora that the applicant will have to get a permit from Utah County Health Department prior to a building permit being issued from the City. Engineer Lundell noted that the design of the septic system should be considered for the future owners and installation of sewer lines.

Item 3.

Manager Beagley made a motion to approve the Sutherland Subdivision Final Plat application on the condition that redlines be addressed and all requirements for the septic system and building permits be followed. Public Works Director Callaway seconded the motion.

Police Officer Kayson Shepherd	Yes
Public Works Director Jason Callaway	Yes
Fire Rep. Allen Duke	Yes
City Manager Norm Beagley	Yes
Senior Planner Ryan Harris	Yes
Building Official Randy Spadafora	Yes
City Engineer Jon Lundell	Yes

The motion passed.

2. Meeting Minutes Approval

Manager Beagley made a motion to approve the DRC meeting minutes from February 13, 2024, and February 27, 2024. Building Official Spadafora seconded the motion.

Police Officer Kayson Shepherd	Yes
Public Works Director Jason Callaway	Yes
Fire Rep. Allen Duke	Yes
City Manager Norm Beagley	Yes
Senior Planner Ryan Harris	Yes
Building Official Randy Spadafora	Yes
City Engineer Jon Lundell	Yes

The motion passed.

Adjournment Manager Beagley made a motion to adjourn.

The meeting was adjourned at 10:11 a.m.

Jon Lundell

Jon Lundell, City Engineer

Amalie R. Ottley, City Recorder