

ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
SPECIAL BOARD MEETING AGENDA

***NOTE: given current events and current advice and directives from local, state and federal jurisdictions related to COVID-19, this meeting is being held by teleconference and virtual meeting only. Board members, consultants and members of the public may participate by teleconference or by computer/tablet by utilizing the following information:**

URL link:

<https://us02web.zoom.us/j/86006252937?pwd=NFVIMHd4eGthajI3L2plU2JYdzRZdz09>

Call: 346-248-7799

Meeting ID: 860 0625 2937

Password: 560352

Board of Directors:

Calvin Brown, President	Term Expires May 2023
Debra Prysby, Vice President	Term Expires May 2022
Ephram Glass, Treasurer	Term Expires May 2023
Edward Wagner, Secretary	Term Expires May 2022
Garry Cook, Assistant Secretary	Term Expires May 2022

Date: August 18, 2020 (Tuesday)
Time: 6:00 p.m.
Place: VIA ZOOM

1. CALL TO ORDER
2. DECLARATION OF QUORUM/DIRECTOR QUALIFICATIONS/DISCLOSURE MATTERS
3. APPROVE AGENDA
4. PUBLIC COMMENT and/or GUESTS
Members of the public may express their views to the Board on matters that affect the District. Comments will be limited to three (3) minutes. Please sign in.

5. CONSENT AGENDA (5 MINUTES)

(Note: All items listed under the Consent Agenda are considered to be routine and will be enacted by one motion and vote. There will be no separate discussion of these items unless a Board member or a member of the audience so requests.)

- A. Consider Approval of the July 21, 2020 and August 6, 2020 Special Meeting Minutes (enclosed)
- B. Review and Accept the Draft Financial Statements for June (enclosed)
- C. Review and Accept the Cash Position and Property Tax Schedule for July (enclosed)
- D. Review and Consider Approval of Current Claims, Approve Transfer of Funds,

and Ratify Payment of Autopay Claims and Ratify Approval of Previous Claims
 as of June 30, 2020 (enclosed)

6. FINANCIAL ITEMS
 - A. Other

DISCUSSION AGENDA

7. ACTION ITEMS (10 MINUTES)
 - A. Bailey Tree Updates
 - i. Review Fulfillment of Contract
8. DIRECTOR ITEMS (10 minutes)
 - A. Environmental Committee Update
 - B. Other
9. MANAGER MATTERS (30 MINUTES)
 - A. Master Plan/Spillway Follow-Up
 - i. Spillway Materiality and Follow-Up
 - B. Feasibility Study Follow-Up
 - C. Discuss Pedestrian Safety on Rampart Range Road
 - D. Update on Toilets and Fountains (enclosed)
 - E. Discuss 2021 Budget Process
 - i. October 15, 2020 – Draft Budget Communicated to the Board
 - ii. November 17, 2020 Board Meeting – Public Hearing to Review and Approve 2020 Budget
 - iii. December 15, 2020 – Mill Levy Certified
 - F. Other
10. LEGAL MATTERS (10 MINUTES)
 - A. Update Regarding Final Water Due Diligence Filing and Executive Session Pursuant to C.R.S. Section 24-6-402(4)(B) and for the Purposes of Receiving Legal Advice on Specific Legal Questions, if requested
 - B. Update on CAB Agreement and Project
 - C. Update on Emergency Disaster Declaration
 - D. Update on Jared Way Sunset Patio (enclosed)
 - E. Update on District-Specific Board Member Emails (to be distributed)
 - F. Consider Approval of the Resolution to Increase Board President and Manager Emergency Spending Authority (enclosed)
 - G. Respond to Community Request for Playground
 - H. Other
11. ENGINEERING MATTERS (10 MINUTES)
 - A. Update on CDR Contract for Dugout

Roxborough Village Metropolitan District

Agenda – August 18, 2020

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- B. Update on Aerial Mapping and Irrigation Planning (to be distributed)
- C. Update on Trail Repair and Concrete Work

12. LANDSCAPE MAINTENANCE (10 MINUTES)

- A. Metco Landscape Report – Bill Barr (enclosed)
- B. Review and Consider Approval of Proposals
 - i. Proposal to Install Timbers in the amount of \$1,200.00 (enclosed)
 - ii. Proposal to Repair Rock Monuments in the amount of \$3,700.00 (enclosed)
 - iii. Proposal to Plant Trees and Winter Watering in the amount of 18,250.00 (enclosed)
- C. Other

13. OTHER BUSINESS (5 MINUTES)

- A. Confirm Quorum for September 15, 2020 Special Meeting via Zoom.

14. ADJOURNMENT

2020 Meeting Calendar
3rd Tuesday of Every Month
Roxborough Library
West Metro Fire Station No. 15
Virtual – Details on Notice

JANUARY

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DECEMBER

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RECORD OF PROCEEDINGS

MINUTES OF A SPECIAL MEETING
OF THE BOARD OF DIRECTORS OF THE
ROXBOROUGH VILLAGE METROPOLITAN DISTRICT

HELD

Tuesday July 21, 2020

A special meeting of the Board of Directors of the Roxborough Village Metropolitan District (referred to hereafter as the "Board") was convened on Tuesday, July 21, 2020 at 6:00 p.m. via ZOOM. The meeting was open to the public.

ATTENDANCE

In Attendance were Directors:

Calvin Brown
Debra Prysby
Garry Cook
Ephram Glass

Also in Attendance were:

Anna Jones; CliftonLarsonAllen LLP
Katie James, Esq.; Folkestad Fazekas Barrick & Patoile, P.C.
Scott Barnett; Mulhern MRE Inc.
Bill Barr; Metco Landscaping
Steven Bailey and George Beidenstein; Bailey Tree
Todd Wenskoski; Livable Cities Studio

CALL TO ORDER

The meeting was called to order at 6:07 p.m.

**DECLARATION OF
QUORUM/DIRECTOR
QUALIFICATIONS/
DISCLOSURE MATTERS**

Director Brown declared a quorum was present. Director Wagner's absence was excused. No new conflicts were disclosed.

APPROVE AGENDA

Upon a motion duly made by Director Cook, seconded by Director Glass, and upon vote unanimously carried, the Board approved the agenda as presented.

**PUBLIC COMMENT and/or
GUESTS**

No public comment.

CONSENT AGENDA

- A. Consider Approval of the June 16, 2020 Special Meeting Minutes
- B. Review and Accept the Cash Position and Property Tax Schedule

RECORD OF PROCEEDINGS

C. Review and Consider Approval of Current Claims, Approve Transfer of Funds, Ratify Payment of Autopay Claims and Ratify Approval of Previous Claims

After review, it was noted that the Cash Position and Property Tax Schedule were not included and need to be included in next month's packet. Upon a motion duly made by Director Cook, seconded by Director Glass, and upon vote unanimously carried, the Board approved the Consent Agenda excluding the Cash Position and Property Tax Schedule.

FINANCIAL ITEMS

A. Other

None.

DISCUSSION AGENDA

ACTION ITEMS

A. Bailey Tree Updates

Mr. Beidenstein of Bailey Tree provided an update. Ms. Jones noted there is potential for a \$25,000 insurance claim for trees that died in a spring freeze and discussed what the District may do to take advantage of that insurance benefit.

DIRECTOR ITEMS

A. Mosquito Management / Habitat and Environmental Issues (Discuss a Potential Committee)

Director Glass discussed issues regarding chemicals used in mosquito spraying and other habitat issues. He suggested forming a committee of two Board members to review environmental issues and bring those issues forward to the Board as needed. The committee will research and investigate items of interest and bring a written recommendation back to the August and/or subsequent meetings. Upon a motion duly made by Director Glass, seconded by Director Prysby, and upon vote unanimously carried, the Board formed the Environmental Committee and appointed Director Glass and Director Prysby to the committee.

B. Discuss Board President Approval Authority Increase

Upon a motion duly made by Director Cook, seconded by Director Prysby, and upon vote unanimously carried, the Board increased the President's emergency spending authority from \$3,000.00 to \$5,000.00 and increased non-emergency spending authority from \$1,000.00 to \$3,000.00. In addition, the Board

RECORD OF PROCEEDINGS

approved the District Manager's spending authority up to \$1,000.00 without prior approval of the Board.

Mr. Barnett reviewed additional concrete work performed by Chavez Services, LLC. Director Brown indicated he had approved the expenditure without polling the Board in the amount of \$3,500.00 as the expenditure was time-sensitive in nature. The Board discussed the need for the interim approval of payment. After discussion and upon a motion duly made by Director Prysby, seconded by Director Cook, the Board ratified the \$3,500.00 payment to Chavez Services, LLC for concrete work that was in addition to the previously approved amount.

C. Other

Director Prysby discussed the accident at the median on Rampart Range Road and Village Circle East. Mr. Barr addressed her concerns. Ms. Jones indicated she will coordinate with Douglas County to get further information regarding the accident and work with Mr. Barr to get a proposal for the repairs.

Director Brown discussed brush fire protocols should fires be in the area. If fires are active in the area, Director Brown will let the Manager know to inform all Board members and post on the District website.

Director Cook asked if it is possible to assign Roxborough Village Metropolitan District-specific email addresses to Directors. Ms. Jones will investigate and report back at the August Board Meeting.

MANAGER MATTERS

A. Master Plan/Spillway Follow-up – Anticipated Costs and Timeline

Mr. Wenskoski and Mr. Barnett reviewed the designs included in the packet. The Board discussed the designs and directed Mr. Wenskoski and Mr. Barnett to go with Option A as provided in the packet and to also provide additional ideas regarding rock and boulder materials, shade structure and overlook designs. The Board requested such additional information be brought to the August 6, 2020 Special Meeting.

B. Feasibility Study Follow-Up (Special Meeting to Discuss Spillway and Feasibility Study on August 6, 2020)

RECORD OF PROCEEDINGS

Ms. Jones provided an update and reminded everyone of the upcoming meeting.

C. Update on Meeting with Douglas County Regarding Pedestrian Safety on Rampart Range Road

Ms. Jones and Ms. James reported the outcome regarding their conversations with Douglas County Traffic staff, in which staff recommended a pedestrian-activated crossing feature and potentially some additional street striping or other traffic calming measures. The Board considered further action and would like to invite a Douglas County Commissioner to the next meeting for further discussion. Ms. Jones will follow up with an invitation and inform Douglas County staff of same.

D. Update on Toilets and Fountains

Ms. Jones provided a report, indicating repairs are almost finalized and the restrooms should be open for public use in the coming weeks.

E. Update on Communication Strategy

Ms. Jones provided a report informing Board members that Mr. Kelly will reach out to each of them individually to begin his outreach efforts.

F. Other

None.

LEGAL MATTERS

A. Update Regarding Final Water Due Diligence Filing and Executive Session Pursuant to C.R.S. Section 24-6-402(4)(B) and for the Purpose of Receiving Legal Advice on Special Legal Questions, if requested

No action taken.

B. Consider a Resolution Approving Services Agreement with Ben Kelly for Community Outreach / Strategic Communications Services

Upon a motion duly made by Director Prysby, seconded by Director Cook and, upon a vote unanimously carried, the Board approved the Resolution Approving Services Agreement with

RECORD OF PROCEEDINGS

Ben Kelly for Community Outreach / Strategic Communications Services.

C. Update on CAB Agreement and Project

Ms. James and Mr. Barnett provided an update. The project has begun and appears to be going well. The District received the \$5,000.00 deposit from CAB towards fees incurred as a result of the project.

D. Update on Emergency Disaster Declaration

Upon a motion duly made by Director Glass, seconded by Director Prysby and, upon a vote unanimously carried, the Board ratified the Continuation of the Emergency Disaster Declaration.

E. Discussion on Jared Way Sunset Patio

Ms. James provided an update and indicated she will draft a letter to the homeowner to instruct him to remove the encroachment.

F. Other

There was a community request to investigate building a new playground on the east side of Rampart Way. Directors Prysby and Cook were supportive of the request. Ms. James or Ms. Jones will respond to the community member that the Board is open to consider the request and will discuss it further after evaluating general playground design concepts pursuant to the Master Plan.

ENGINEERING MATTERS

A. Update on CDR Contract for Dugout

Mr. Barnett updated the Board, noting that work has begun.

B. Update on Aerial Mapping and Irrigation Planning

Mr. Barnett updated the Board, noting that planning is underway and is about 60% completed. He will follow up with Hydrosystems KDI for final planning documentation with the goal to have those ready for the Board at the August Board meeting.

C. Consider Proposal for Hydrosystems KDI Design

The proposal for Hydrosystems KDI Design was considered and approved at the previous Board meeting. No action was taken.

RECORD OF PROCEEDINGS

D. Update on Trail Repair and Concrete Work

Mr. Barnett provided an update, noting that the concrete work is done. He reported that there is a request for timber edging by some community members. He will continue to explore options.

**LANDSCAPE
MAINTENANCE**

A. Metco Landscape Report

Mr. Barr reviewed the status of landscaping activities that have occurred in the District during the last month.

B. Review and consider Approval of Proposals

- 1. Proposal to Clean Debris and Silt Concrete Drain Pan - \$3,500

Upon a motion duly made by Director Prysby, seconded by Director Cook, and upon vote unanimously carried, the Board approved the proposal to clean debris and silt concrete drain pan in the amount of \$3,500.

C. Other

Mr. Barr reported the lights have not been turned back on at Crystal Lake Park. Directors Brown and Glass suggested keeping that responsibility with the HOA. Mr. Barr will follow up with Arrowhead Shores HOA.

OTHER BUSINESS

A. Confirm Quorum for August 6, 2020 and August 18, 2020 Special Meetings via ZOOM

A quorum was confirmed.

ADJOURNMENT

The Board adjourned the meeting at 8:55 p.m.

Respectfully submitted,

By: _____
Calvin Brown, President

Attest:

By: _____
Ed Wagner, Secretary

RECORD OF PROCEEDINGS

MINUTES OF A SPECIAL MEETING
OF THE BOARD OF DIRECTORS OF THE
ROXBOROUGH VILLAGE METROPOLITAN DISTRICT

HELD

Thursday, August 6, 2020

A special meeting of the Board of Directors of the Roxborough Village Metropolitan District (referred to hereafter as the "Board") was convened on Thursday, August 6, 2020 at 6:00 p.m. via ZOOM. The meeting was open to the public.

ATTENDANCE

In Attendance were Directors:

Calvin Brown
Debra Prysby
Garry Cook
Ephram Glass
Ed Wagner

Also in Attendance were:

Anna Jones & Nic Carlson; CliftonLarsonAllen LLP
Katie James, Esq.; Folkestad Fazekas Barrick & Patoile, P.C.
Scott Barnett; Mulhern MRE Inc.
Todd Wenskoski; Livable Cities Studio
Mario Trescone; GTAnalytics
Ben Kelly; Strategic Communications Consultant
Kimberly Armitage; YMCA
Rick Stanzyk; Evolution Builders

CALL TO ORDER

Director Brown called the meeting to order at 6:13 p.m.

**DECLARATION OF
QUORUM/DIRECTOR
QUALIFICATIONS/
DISCLOSURE MATTERS**

A quorum was declared present. No new conflicts were disclosed.

APPROVE AGENDA

Upon a motion duly made by Director Cook, seconded by Director Glass, and upon vote unanimously carried, the Board approved the agenda as presented.

**PUBLIC COMMENT and/or
GUESTS**

No public comment.

**FEASIBILITY STUDY AND
SPILLWAY / POND STUDY**

A. Roxborough Village Feasibility Study – Update and Discussion

RECORD OF PROCEEDINGS

Mr. Trescone presented results from the community survey and feasibility study. Board Members' questions were answered by Mr. Trescone, Ms. Armitage and Mr. Stanzyk. Mr. Trescone's presentation slides are attached to these minutes as Exhibit A.

B. Spillway and Tadpole Pond Study

Mr. Wenskoski presented pricing models for spillway planning and improvements to the Board. Board members' questions were answered by Mr. Wenskoski and Mr. Barnett. The Board requested Mr. Barnett and Mr. Wenskoski bring back additional information regarding the shade structure and boulder materiality. They will follow-up at the next regular Board meeting scheduled for August 18, 2020.

C. Other Items/ Miscellaneous

Mr. Wenskoski presented options for upgraded neighborhood playgrounds. The Board will discuss further action regarding playground updates at the next regular Board meeting scheduled for August 18, 2020.

ADJOURNMENT

Upon a motion duly made by Director Prysby, seconded by Director Cook and, upon vote unanimously carried, the Board adjourned the meeting at 8:23 p.m.

Respectfully submitted,

By: _____
Calvin Brown, President

Attest:

By: _____
Ed Wagner, Secretary

RECORD OF PROCEEDINGS

EXHIBIT A

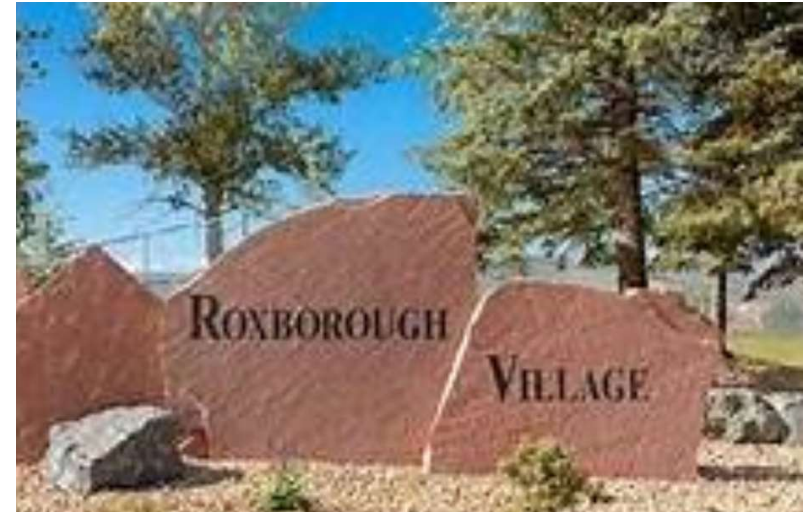
Site Feasibility Analysis Report of Findings



ROXBOROUGH VILLAGE METROPOLITAN COMMUNITY CENTER

Site Feasibility Analysis Report of FINDINGS

August 6, 2020 Meeting



Prepared By:

Greater Than > Analytics™
Business Intelligence Specialists

www.greaterthananalytics.com

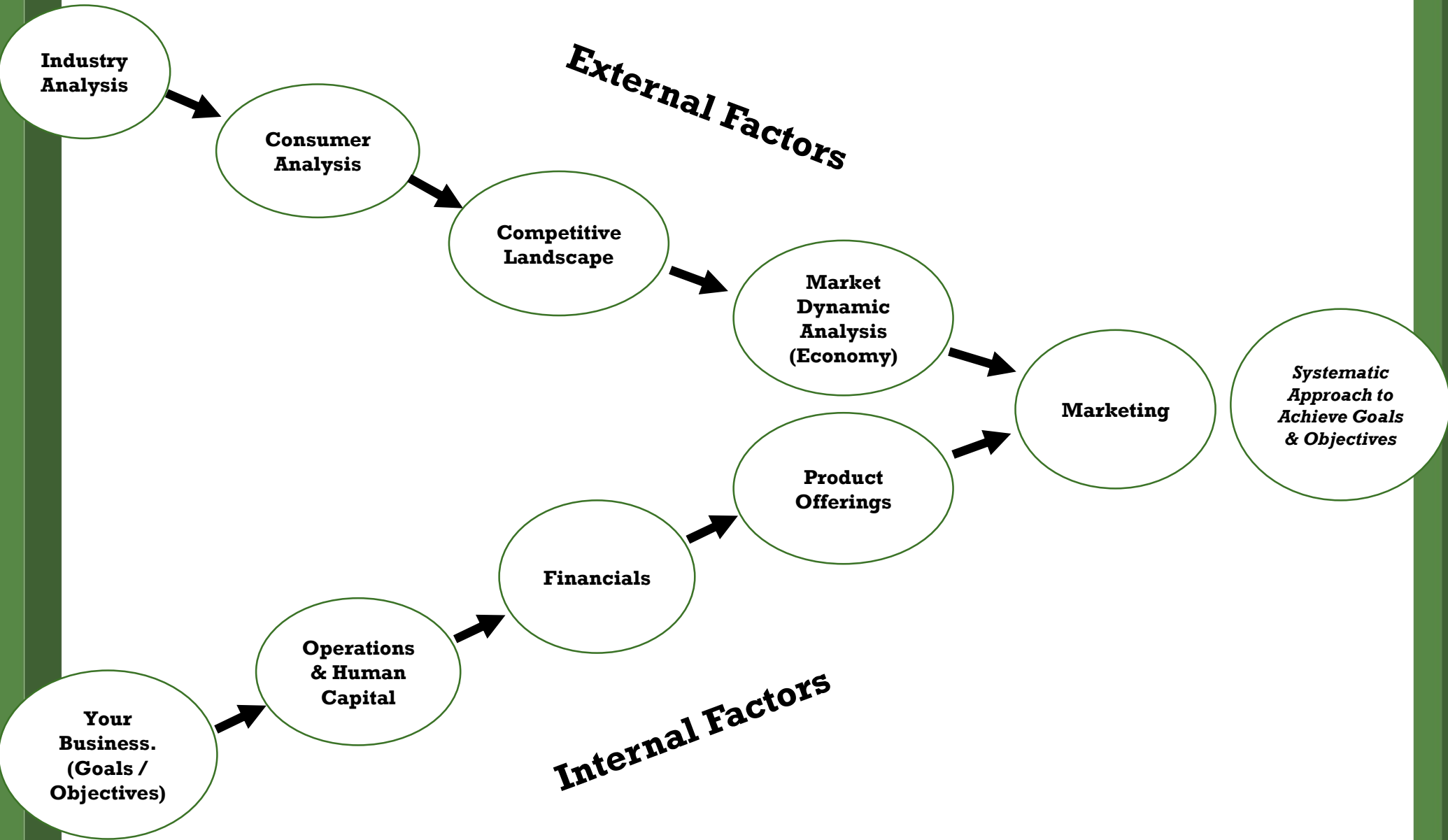
JULY 2020

DRAFT



PROCESS TO DISCOVERY

PROCESS TO DISCOVERY...



METHODOLOGY

RESEARCH AND ANALYSIS PARAMETERS

BACKGROUND / OBJECTIVES

Background:

Evolution Builders commissioned Greater Than Analytics LLC to support their feasibility and design of a potential recreation community center located in the Roxborough Village Metropolitan Community by offering insights into the wants and needs of the community. A critical component of the analysis is to also assess the potential for additional membership units from the surrounding area to assist in funding the operating expenses associated in running a recreation center.

To support the design, feasibility and acceptance of a community center within this area, Greater Than Analytics LLC outlined a methodological approach that examines both the internal and external variables in a manner to identify both success and areas needed for improvement to support current growth, while a deeper understanding of the psychology of the market, identifying those unmet needs, or life desires to enhance the design and programmatic elements needed in the new facility to support long-term growth metrics.

Core Objectives:

Understand current market dynamics impacting current and potentially future membership growth positively or negatively.

- Understand the programs, service and amenities the community and surrounding area want and need in a recreation health and wellness center.
- Understand the psychology of the market, examining variables related to relevancy and sustainability, which include but not limited to, awareness and perception factors, and communities wants and needs both personally and from a health and wellness organization.
- Understand the intersection of member rate affordability and value that will maximize new member acquisition
- Identify factors to produce an estimated proforma for managing and maintaining a community recreation center.

SURVEYING RESIDENTS AND SURROUNDING AREA

19

External / Market Analysis:

- Surveyed Roxborough Village Metro Community*
- Market Landscape Assessment including but not limited to:*
 - *Population Size / Growth Trends*
 - *Population by Core Y Age Groups: Youth, Families, Seniors*
 - *“Like Provider” Assessment*

Analytical Notes:

- *Only one resident per household were survey to ensure data integrity and bias due to household size.*
- *Data analyzed at a 95 Confidence Level*

External / Market Analysis:

- Surrounding Community*
- Market Landscape Assessment including but not limited to:*
 - *Population Size / Growth Trends*
 - *Population by Core Y Age Groups: Youth, Families, Seniors*
 - *“Like Provider” Assessment*

Analytical Note: Data analyzed at a 95 Confidence Level

Analytical Note: As there are many factors that can impact an organizations performance, the information provided in this document is to serve as a guidelines to assist in the strategy planning process and it is important to note that modeling cannot predict the future nor account for all of these factors, therefore this document in no way states absolutes of outcome but merely outlines the probably of what might occur if certain conditions are present.

METHODOLOGY

Non-Roxborough Resident Respondents following the following sampling criteria to ensure data integrity and avoid response bias.

Sample screened to exclude:

- Those Under 18 years of age
- Having a current Y Membership

- **Employed by any of the following areas**
 - Market Research / Advertising / Consulting Firm
 - Fitness, Gym or Health and Wellness Organization
 - Children, Youth Development, Before and After School or Preschool Operators
 - Non-Profit Organizations
 - Park and Recreation Department

- Online Methodology used to launch all surveys

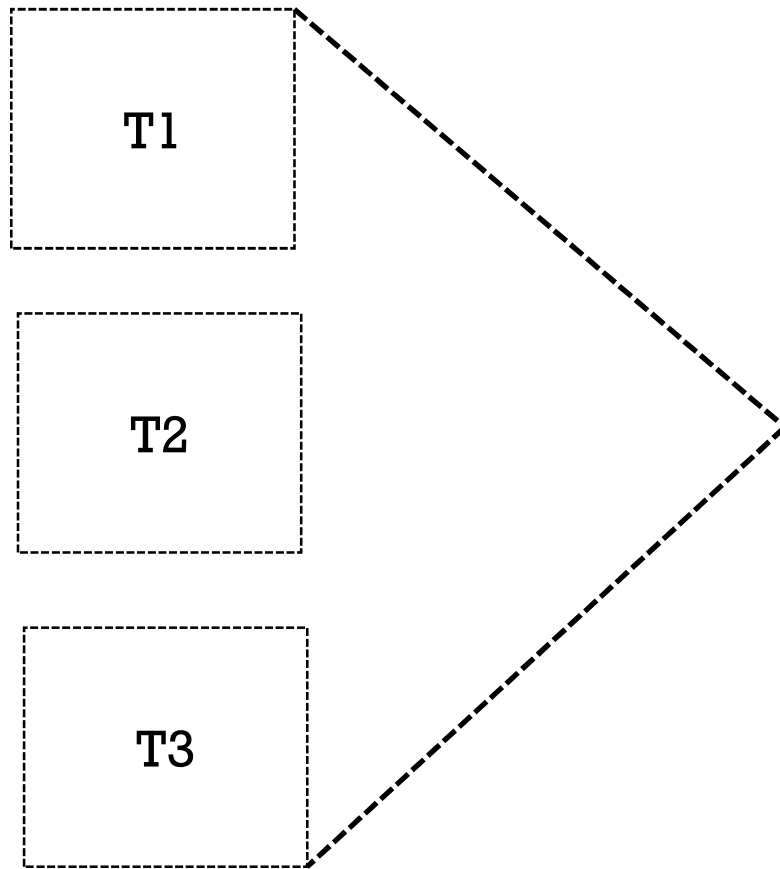
- Survey Length / Time to Complete: 14 minutes to complete the survey

- Fielding Dates: June 11th – July 2, 2020

- Analysis was performed to ensure a 95% confidence level

- Additional analysis used to group factors based on statistical significance for additional insights.

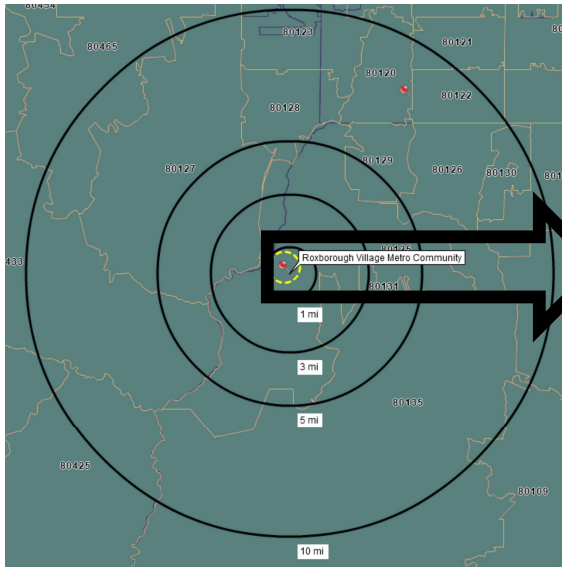
TIERING DATA SETS – VARIABLE PRIORITIZATION SETTING



In order to set priorities based on the wants and needs of the communities in which organizations operate, you must go beyond merely doing a percentage point ranking where appropriate. The T1 – T2 – T3 Tiering System groups attributes based on statistical sig. factors allowing for more strategic, informed decisions can be made.

ROXBOROUGH COMMUNITY

ROXBOROUGH VILLAGE METROPOLITAN COMMUNITY



The area within Roxborough Village Metro Community consists of:

- 6,000 people or about 2,400 Households.
- 90% indicating likelihood to join / use the facility.

Demographic Profile: (based on demographics)

- The area within a 1-Mile Radius of the community highlights the community has an anticipated growth projection of 6% and 7% respectively.
- More than half (53%) of the households have children under 18 years of age.

Population breakdown:

- 11 and under: 25%
- 12 – 17: 9%
- 18 – 44: 25%
- 45 – 54: 14%
- 55 – 64: 7%
- 65+ : 4%

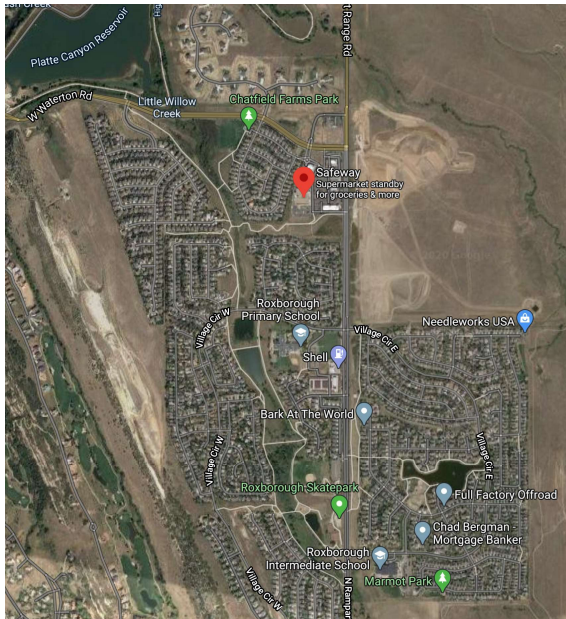
Median Household Income: \$104,630



- Poverty: 3%

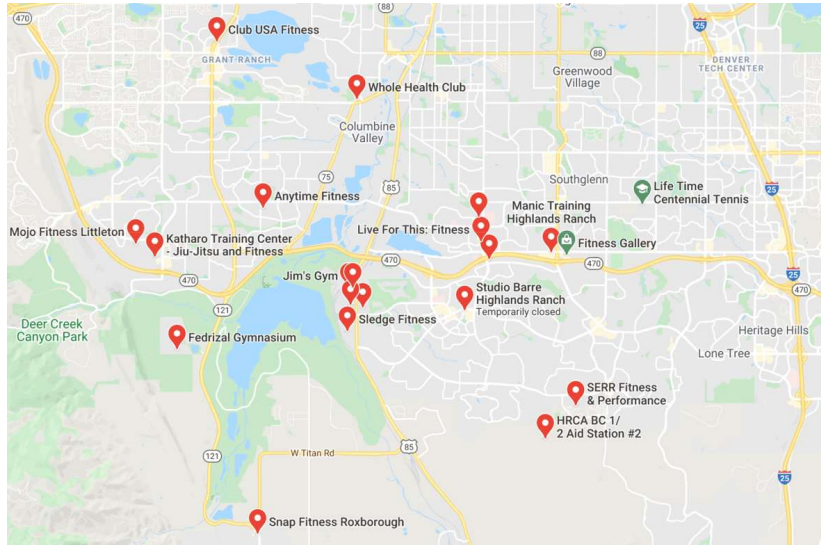
Unemployment: about 5%

- 70% in workforce
- 59% commuting more than 30 minutes to work / 34% commute under 30 minutes.



LIKE PROVIDERS / REASON FOR NOT JOINING

Health and Wellness / Fitness Providers



Overall there are about nine to ten options for fitness and health activities within a 10-mile radius of the location, however almost 2/5 (38%) indicate not belonging to a health and wellness center stating the following reasons as to why:

- **No places close to my home (35%)**
- **No time (11%)**
- **Too expensive (8%)**

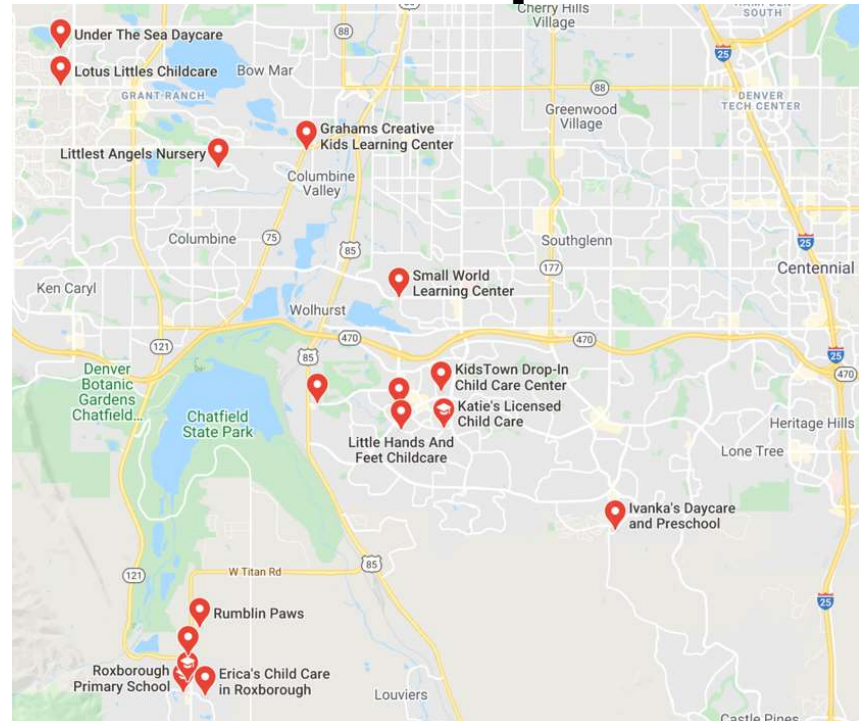
The children residing within this community are active with only 7% of respondents indicating that their children do not participate in any health and wellness activities stating none-close to home as a primary reason.

Activities children participate in:

- **Sports 60%**
- **Music 31%**
- **Swim 31%**
- **Art Class 22%**
- **Fitness 22%**
- **Dance 20%**

Many of these programs are done at the child's school.

Childcare / Youth Development Providers



REASONS FOR JOINING – AMONG THOSE WITH MEMBERSHIPS at a Health and Wellness organization (ROXBOROUGH VILLAGE)

Rank	Among Those with Memberships	Rox Village
1	Clean and well maintained	53%
2	Convenient (Close to Home)	41%
3	Indoor Pool	41%
4	Low Price (pay very little but do not need any extras)	40%
5	Up to Date Equipment	29%
6	Friendly / Engaging Staff	23%
7	Great Value (pay more - but you get more)	21%
8	Inclusive (Everyone Welcome)	21%
9	Outdoor Pool	18%
10	Other (Please specify)	18%

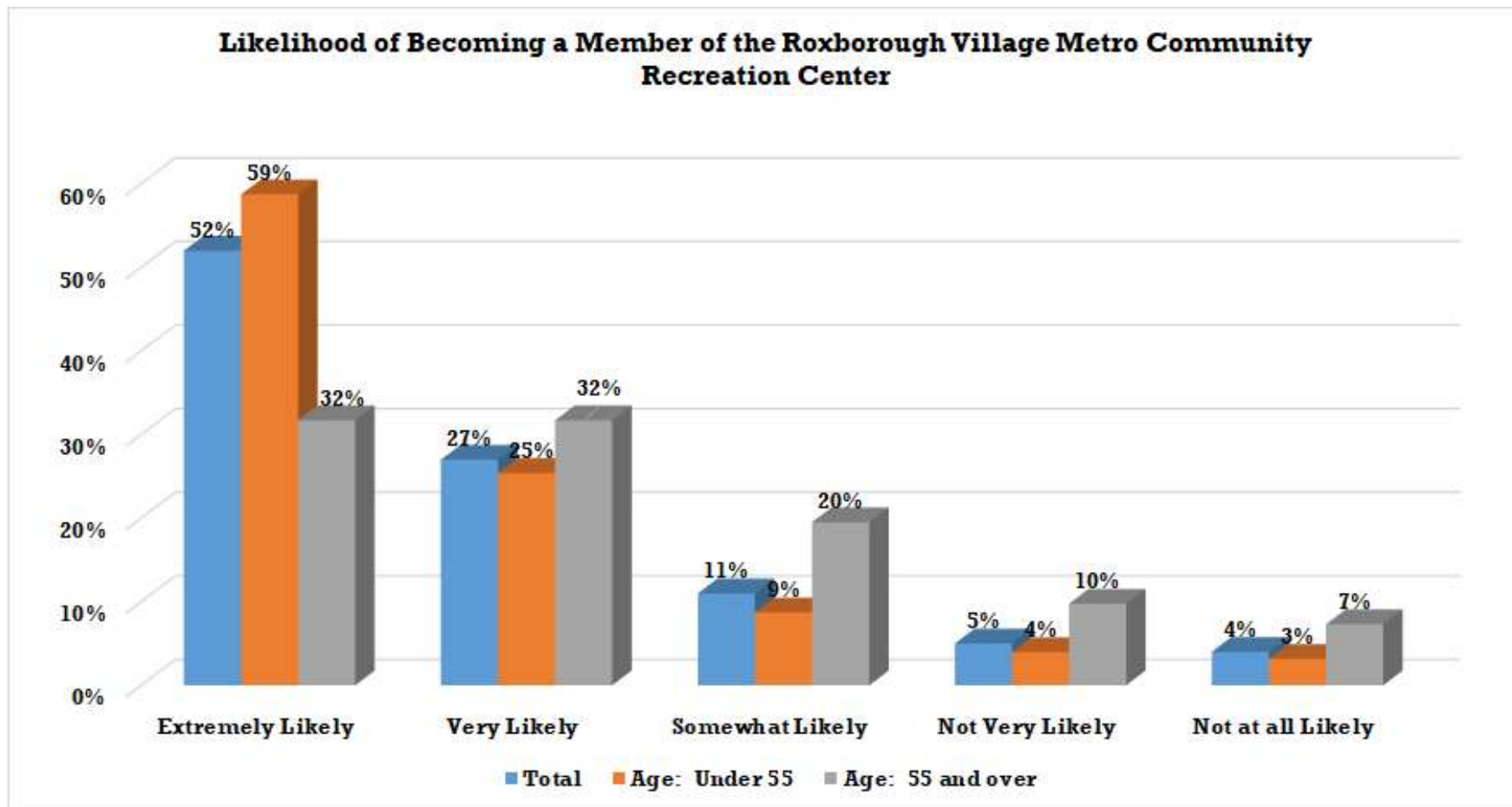
63% currently have a membership at a Health and Wellness / program facility

Selling point for having a community center

2/5 (41%) joined their current fitness center for an indoor pool – signifies the importance of having this amenity at the rec center

Factors highlighting an opportunity for a FREE recreation center in their community with both standard and additional amenities to highlight it as a GREAT VALUE

LIKELIHOOD OF BECOMING A MEMBER (ROXBOROUGH VILLAGE METRO COMMUNITY RESIDENTS)

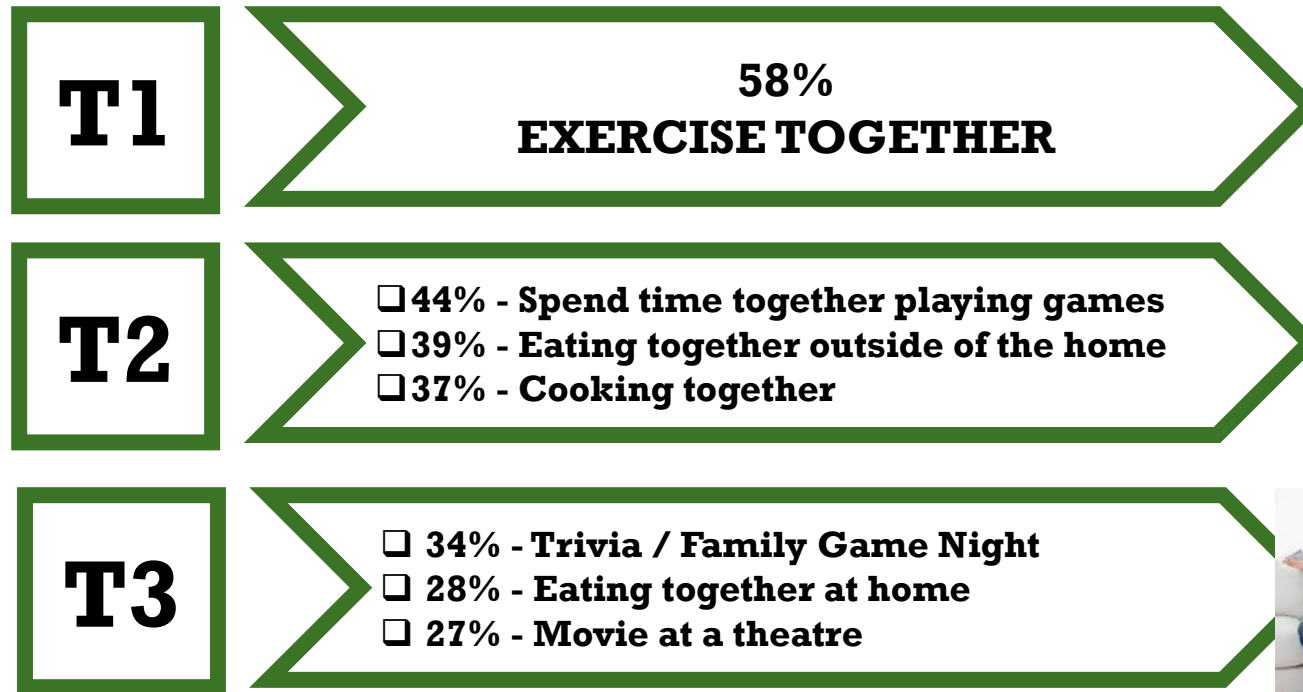


Most residents are likely to becoming a member of the recreation center regardless of age.

WANTS / NEEDS OF ROXBOROUGH COMMUNITY

THE REASON BEHIND INTEREST

ACTITIVES WANTING TO DO MORE AS A FAMILY



Although, exercise is a dominate activity families which they can do more of together, the non-physical activities, that allow people to stay connected is equally important and something to keep in mind when designing the rec center.

Another insight that can be inferred beyond the space needed for these types of activities to take place, is the environment, the atmospheric feeling that the space produces. (i.e. warm, safe, comfortable, etc.)

PRIORITIES IN LIFE (Roxborough Community)

Priorities in Life	Rox. Village	
Time with Family / Friends	68%	T1
Working On / Maintaining Health	60%	
Giving my children the best start in life	38%	T2
Job / Career	35%	
Travel – Experiencing Different Places / Culture	31%	
Taking time to slow down / time out for ME	20%	

Priorities in Life	Non-Rox Comm.	
Time with Family / Friends	60%	T1
Working On / Maintaining Health	53%	
Travel – Experiencing Different Places / Culture	40%	T2
Job / Career	30%	
Giving my children the best start in life	24%	
Taking time to slow down / time out for ME	21%	
Trying new things / Expanding my comfort zone	18%	

KEY FACTOR IN SPACE UTILIZATION OUTSIDE HEALTH IS SPACE FOR CONNECTING WITH FAMILY AND FRIENDS

TRAVEL LIKE FOOD IS AN INDICATOR OF THE IMPORTANCE OF EXPERIENCE...

IN THESE PEOPLE'S LIVES

BARRIERS TO LIVING LIFE TO FULLEST POTENTIAL

(Roxborough Community)

Barriers to Living Life to Fullest Potential	Rox. Village	
Not enough time	43%	T1
Stress	27%	
Access to affordable health and wellness / fitness centers	26%	T2
Lack of Money	25%	
Access to health and wellness / fitness centers	25%	
Family Too Busy (a lot of different activities)	21%	
I Work Long-Hours	20%	
Lack of Resources	13%	
Lack of Social connection	13%	
I am the barrier	11%	
All Alone	5%	
No One Supporting My Goals	3%	
My current health keeps me inactive	3%	
No Opportunities to give back	2%	
Other (Please specify)	4%	

PUTTING FINDINGS INTO CONTEXT

- Having a full-resource in neighborhood – saves time running around
- Exercise, Sports, Fun and Laughter Reduce Stress
- Free to Residents
- Large Fitness ctr.
- Family Fun
- 24-Hr Access

NON-PHYSICAL ACTIVITIES

Residences of Roxborough Village Metro Community show high interest in Non-Physical activity programs. Identifying those that score T1 and T2 based on statistical significance while achieving at least 20% of residence indicating interest we observe the following based on consumer group.

ADULT (rating 20% or Greater)	T1	Nutritional Cooking Classes, Art Classes
	T2	Family Fun Night, Book Club, Trivia Game, Spanish Language, Travel Clubs, Music Classes
SENIOR (rating 20% or Greater)	T1	Art Classes, Card Game Club, Travel Clubs, Book Clubs, Computer Classes, Nutritional Cooking Classes
	T2	Family Fun Nights, Spanish - Language
YOUTH (rating 20% or Greater)	T1	Art Classes, Music, Family Fun Night, Basic STEAM
	T2	Ski Clubs, Nutritional Cooking Classes, Computer Classes, Drama Classes, Spanish – Language, Book Clubs

WILLING TO PAY FOR ACTIVITIES

Among the residents the rates willing to pay is between \$50 - \$100 / month, which is in line with what those that belong to a fitness / health and wellness center on average pays per month (estimated to be \$90/mo.)

Member Type Desired (Roxborough Village Comm)

T1 Family 2 Adult = 47%

T2 T2 - Adult = 14%
 T2 - 2 Adult no Dependents = 14%
 T2 - Senior Couple = 9%
 T2 - Household = 9%

The 2 Adult Family is significantly more desired than any other membership type tested.

Among Roxborough Village residents that responded to the survey...

Personal Training: 42% - 58% expressed interest

Yoga: 43% - 50% expressed interest

Pilates: 26% - 40% expressed interest

Note: HITT as a program 29% - 34% expressed interest

SPECIALTY ADD-ON'S AND PAYMENTMENT STRUCTURE DESIRED

Top Specialty Programs of Interest		Payment Structure Preferred
<input type="checkbox"/> Personal Training	→	\$10 per class / Pay as you go
<input type="checkbox"/> Yoga	→	All Payment structure of interest
<input type="checkbox"/> Pilates	→	\$10 / class pay as you go & \$30 / mo for 6 classes

DISC (DISCRETIONARY INCOME SPEND COMPARISON)

**Index of
> 110
Priced Lower than
Market**

**Index of
90 - 110
Priced on Par
with Market**

**Index of
< 90
Priced on Higher
than Market**

*Note: Rates Based
on Littleton Branch*

BASED ON A 20 MINUTE DRIVE TIME OF

Roxboroug Village Metropolitan Community

MEDIAN HH INCOME	MONTHLY DISCRETIONARY INCOME (AFTER TAXES)
\$90,345.00	\$5,343.44
AVERAGE MEMBER RATE <small>(Excludes Young Adult)</small>	\$74
Health and Wellness DISC - Index	123
Discretionary Consumer Spending - Index <small>(Excludes Health and Wellness Membership)</small>	239
AVG. TOTAL MONTHLY LIVING EXPENSES: (Food, Health, Shelter, Transportation Clothing)	\$3,497
Non-Essentials / Choice Items:	Average Monthly Expense
Alcoholic beverages	\$40
Going out to Eat	\$249
Entertainment	\$314
Personal care products & services	\$70
Reading	\$5
Education	\$166
Tobacco products & smoking supplies	\$35
Miscellaneous	\$58
Cash contributions	\$124
Personal insurance & pensions	\$695
Gym Membership	\$90
Total Non-Living Expenses - Choice Items:	\$1,847

Based on the analysis the rates of the Littleton Branch should work well for this community with some minor adjustments to boost interest and enrollment.

- Adult = \$49 (not \$50)
- Family = \$89 (not \$90)
- Young Adult = \$32 (not \$35)

Beneficial to Include:

- Senior Adult at \$46/mo.
- Household at \$92 / mo.
(although not a huge demand today it may work nicely as a complimentary membership to accommodate changing economic times)

BEYOND THE ROXBOROUGH COMMUNITY

Opportunity for Members Beyond the Immediate Area

Demographics – 5-mile radius focus

(Non-Roxborough Village Metro Comm.)

Popoulation	1 Mile Radius	3 Mile Radius	5 Mile Radius	10 Mile Radius
2010	7,325	9,460	24,809	278,099
2019	9,003	11,575	29,862	319,798
2024	9,499	12,216	31,443	333,663
Pop. Growth (2019/2010)	23%	22%	20%	15%
Pop. Growth (2024/2019)	6%	6%	5%	4%

Household Population	1 Mile Radius	3 Mile Radius	5 Mile Radius	10 Mile Radius
2010	2,422	3,261	8,252	105,415
2019	3,008	4,030	10,040	122,411
2024	3,208	4,299	10,688	128,927
HH Pop. Growth (2019/2010)	24%	24%	22%	16%
HH Pop. Growth (2024/2019)	7%	7%	6%	5%

Family Dynamics	1 Mile Radius	3 Mile Radius	5 Mile Radius	10 Mile Radius
Married w/ Children under 18	46%	41%	44%	31%
Single Parent w/ Children under 18	7%	6%	6%	7%
Non-Family w/ Children under 18	0%	0%	0%	0%
Married w/o Children under 18	29%	36%	34%	32%

Age	1 Mile Radius	3 Mile Radius	5 Mile Radius	10 Mile Radius
Median Age	32.9	36.4	37	39.1
Aged 0 to 5 Years	13%	11%	10%	8%
Aged 6 to 11 Years	12%	11%	11%	9%
Aged 12 to 17 Years	9%	8%	11%	10%
Aged 18 to 24 Years	4%	4%	5%	6%
Aged 25 to 34 Years	16%	13%	10%	11%
Aged 35 to 44 Years	21%	19%	19%	16%
Aged 45 to 54 Years	14%	16%	19%	18%
Aged 55 to 64 Years	7%	11%	10%	13%
Aged 65 to 74 Years	3%	5%	4%	6%
Aged 75 to 84 Years	1%	1%	1%	3%
Aged 85 Years and Older	0%	0%	0%	1%

1) Examining the overall size and growth of the market are critical first steps in determining the viability / feasibility of demand before surveying the market.

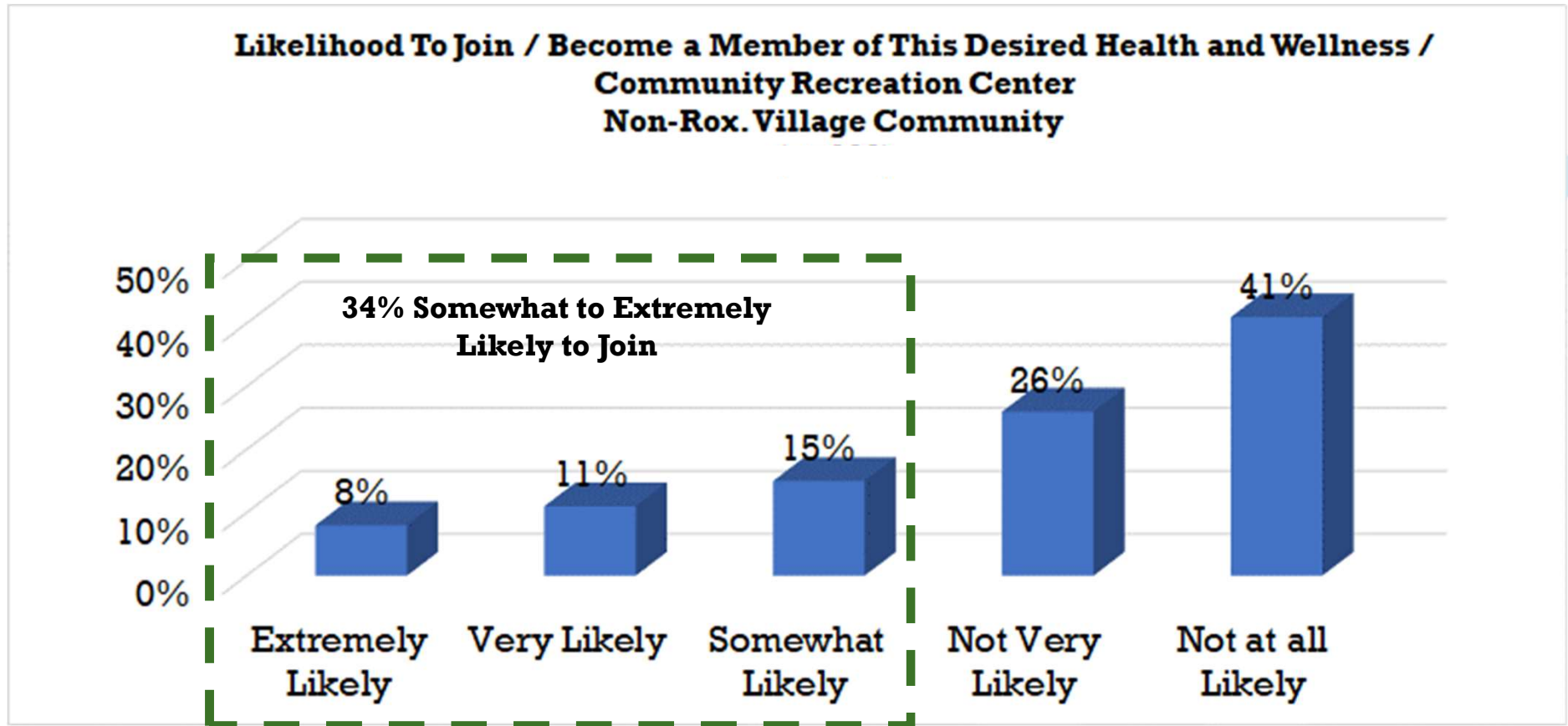
- Overall population and household size and growth is higher than the minimum 3% needed for sustainability.
- The household size is a primary variable to estimate growth, highlighting

2) Half the households surrounding the community have children under the age 18, further emphasizing the need for youth related activities. (note: a core strength of the Y program area)

Overall the age distribution highlights demographics that are aligned with the Y's target audience.

- Age 11 and Under (21%) – min. 12%
- Age 35 – 54 (48%) – min. 40%
- Age 65- 74 (4%) – min 6% (just under the minimum we seek)

LIKELIHOOD TO JOIN THIS DESIRED IN H&W FACILITY (NON-ROXOROUGH COMMUNITY)



Important to note that it is difficult for most consumers to conceptualize what a new product will be...we need to touch and feel it, needs to be tangible, anything 25% or great in a combined rating of somewhat to extremely likely to join is generally considered a good indicator of market demand potential.

BEYOND ROXBOROUGH VILLAGE – ACTIVITIES WANTING TO DO MORE AS A FAMILY

Activities Wish Can Do More As Family	Non-Rox Comm.	
Eating together outside of the home	45%	T1
Eating together at home	37%	
Exercise together	35%	T2
Spend time together playing games	35%	
Cooking together	32%	
At-home movie night	29%	
Movie at a theatre	29%	
Trivia / Game Night	23%	T3
Watch TV together	23%	
Go to church	18%	
Grocery shopping	18%	
Retail shopping	9%	
Work on homework	9%	
None of the above	17%	

Like Roxborough Village, the surrounding area desires spending time together socializing with family and friends with food being a key conduit.

Playing games, cooking and watching movies highlight priorities on par with exercising and physical activities.

Overall, the households outside of the Roxborough Village Community are not as interested in sports and recreation activities, however there is interest in Non-Physical programming.

T1 – Non-Physical Classes where at least 20% or greater of the community would like to see offered.

Adult

- Nutritional Cooking Classes**
- Travel Clubs**
- Trivia Games**
- Book Clubs**
- Family Fun Nights**



Senior

- Computer Classes**
- Nutritional Cooking Classes**
- Travel Clubs**
- Card Game Clubs**
- Trivia Games**
- Family fun nights**
- Book Clubs**
- Language - Spanish**



Youth

- Family Fun Night**
- Computer Classes**
- Music Classes**
- Art Classes**
- Basic STEAM classes**



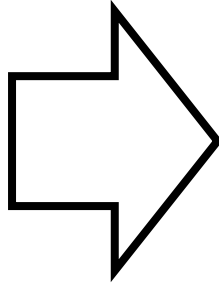
GROWTH OPPORTUNITY

**AREA SURROUNDING ROXBOROUGH
VILLAGE COMMUNITY CENTER**

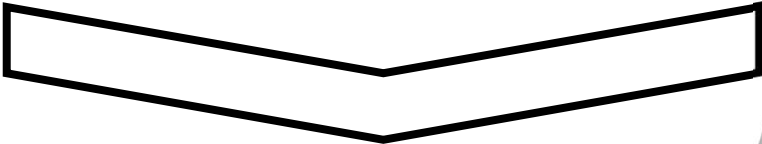
ESTIMATED PROJECTIONS – WITHIN AND BEYOND THE ROXBOROUGH VILLAGE METRO COMMUNITY

If the rec / community center usage is isolated to those residing within the community the square footage needed to accommodate the estimated demand of 2,400 households with the programs and serviced desired is about ...

37.8K to 43.2K sq. ft.



Based on the demand for an entity that offers both physical (fitness) and non-physical program offerings the market potential is about 900 - 1,100 additional units.



Rox Village + Surrounding Community

Acquisition of these additional 900 - 1,100 units largely based on the Rec / Community Center's ability to be more than a fitness / activity center but offer those non-physical activities strongly desired

NOTE: Property value of homes increase by an average of 10%, when within a quarter mile of a planned, park and recreation center system.

Study done by University of Washington.

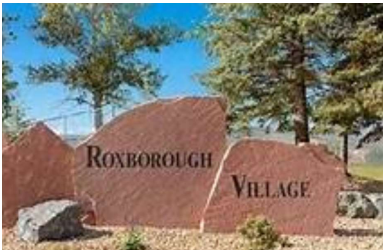
Total EST. Member Units = 3,000 to 3,260 member units



Estimated Size of Facility = 57K – 61K sq. ft.

Estimated member revenue based on unit projections (900-1,100) from the surrounding community and an average rate of \$62/mo. (adjusted based research and DISC-Index assessment) to be between \$669K - \$818K/yr. Additional revenue can be earned through specialty programs and activities offered.

SUMMARY & INSIGHTS



SUMMARY / INSIGHTS:

Key Findings / Insights:

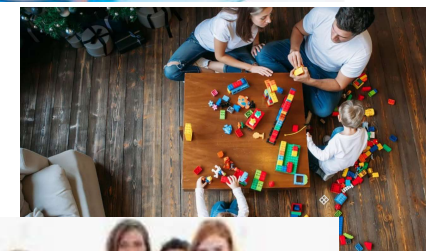
Demographics within and around the Roxborough Village Metro Community make it an ideal setting for a recreation / community center:

- Solid Total and Household Population Factors
 - Growth projections at 6% (min. 3%)
 - Strong Youth Population 21% (min. 12%)
 - Strong family population
 - Solid Senior Population

Unmet need in the Market

- Wants and Needs Extend beyond Fitness
- Majority of the population either belong to a Gym/Fitness Center and / or see health / exercise as a priority in life. Among those that do: **No places close to my home (35%), No time (11%), Too expensive (8%)**
- However there is a strong need for connections as well and spending time with family and friends participating in non-physical activities and space for organic connections to occur.

Interest levels of joining a place that offers both fitness (physical) and non-physical activities, is 90% among Roxborough Village residents and above minimum threshold for estimating demand for the surrounding community.



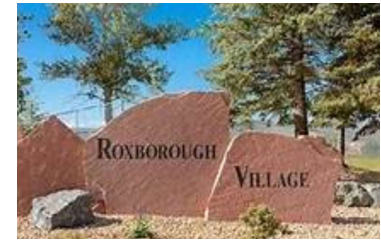
SUMMARY / INSIGHTS:

Closing:

In closing, there is sufficient evidence that the Roxborough Village Metro community desires a community recreation center to be built within their neighborhood. There is also sufficient interest with the surrounding community to join and use such a recreation center that offers an abundant of physical and non-physical programming with an indoor pool option being at the top of the list among amenities offers along with 24-Hr access and sufficient parking as key preferences.

Expanding the usage to those outside of the community will bring in about \$669K - \$818K of additional revenue per year solely from membership dues, with additional revenue to be earned through other fee-based programming and services offered.

To attract awareness to this new recreation option in the area, marketing will be a critical component to not only generate awareness but to highlight that it offers more than merely exercise or fitness related activities a key need in the community itself.



THANK YOU

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ROXBOROUGH VILLAGE METROPOLITAN DISTRICT

FINANCIAL STATEMENTS

JUNE 30, 2020

DRAFT

ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
 BALANCE SHEET - GOVERNMENTAL FUNDS
 JUNE 30, 2020

	<u>General</u>	<u>Debt Service</u>	<u>Capital Projects</u>	<u>Total</u>
ASSETS				
Checking - FirstBank	\$ 63,093	\$ -	\$ 50,661	\$ 113,754
Colostrust	683,691	1,428,805	1,694,912	3,807,408
Bond Fund 1993 A&B	-	1,365,098	-	1,365,098
Receivable from County Treasurer	358,149	290,885	-	649,034
TOTAL ASSETS	<u>\$ 1,104,933</u>	<u>\$ 3,084,788</u>	<u>\$ 1,745,573</u>	<u>\$ 5,935,294</u>
LIABILITIES AND FUND BALANCES				
CURRENT LIABILITIES				
Accounts payable	\$ 86,983	\$ -	\$ 77,735	\$ 164,718
Payroll taxes payable	77	-	-	77
Total Liabilities	<u>87,060</u>	<u>-</u>	<u>77,735</u>	<u>164,795</u>
FUND BALANCES				
Total Fund Balances	<u>1,017,873</u>	<u>3,084,788</u>	<u>1,667,838</u>	<u>5,770,499</u>
TOTAL LIABILITIES AND FUND BALANCES	<u>\$ 1,104,933</u>	<u>\$ 3,084,788</u>	<u>\$ 1,745,573</u>	<u>\$ 5,935,294</u>

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ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
STATEMENT OF REVENUES, EXPENDITURES AND
CHANGES IN FUND BALANCES - BUDGET AND ACTUAL
FOR THE SIX MONTHS ENDED JUNE 30, 2020

GENERAL FUND

	Annual Budget	Year to Date Actual	Variance
REVENUES			
Interest income	\$ 10,000	\$ 6,792	\$ (3,208)
Miscellaneous income	7,000	1,349	(5,651)
Property taxes	982,751	968,729	(14,022)
Specific ownership tax	163,087	70,553	(92,534)
Sports field fees	1,000	-	(1,000)
TOTAL REVENUES	<u>1,163,838</u>	<u>1,047,423</u>	<u>(116,415)</u>
EXPENDITURES			
Accounting	45,000	28,895	16,105
Algae control	5,000	-	5,000
Auditing	5,200	-	5,200
Communications/website	15,000	228	14,772
Community events	35,000	68	34,932
Contingency	30,000	-	30,000
County Treasurer's fee	14,741	14,533	208
Directors' fees	8,000	3,800	4,200
District management	120,750	98,691	22,059
Dues and licenses	1,200	1,017	183
Election expense	65,000	8,447	56,553
Engineering	45,000	15,777	29,223
Foothills Park and Recreation fees	20,000	4,616	15,384
Graffiti removal/ vandalism	5,000	2,395	2,605
Insurance and bonds	13,000	9,953	3,047
Landscape contract	164,800	82,782	82,018
Landscape improvement	75,000	12,602	62,398
Landscape irrigation maintenance	25,000	21,883	3,117
Landscape weed control	20,000	10,151	9,849
Legal services	70,000	52,850	17,150
Miscellaneous	4,000	844	3,156
Mosquito control	16,000	6,000	10,000
Newsletter and postage	3,000	3,730	(730)
Nonpotable water purchase usage	70,000	9,819	60,181
Open space maintenance / fire mitigation	25,000	-	25,000
Payroll taxes	612	291	321
Playground repairs and maintenance	30,000	-	30,000
Portable restrooms	3,000	1,840	1,160
Repairs and maintenance	20,000	17,754	2,246
Seasonal lights	14,000	-	14,000
Skate Park maintenance	15,000	-	15,000
Snow removal	40,000	19,998	20,002
Tree maintenance	80,000	50,388	29,612
Tree spraying	40,000	-	40,000
Utilities	15,000	5,737	9,263
TOTAL EXPENDITURES	<u>1,158,303</u>	<u>485,089</u>	<u>673,214</u>
NET CHANGE IN FUND BALANCES	5,535	562,334	556,799
FUND BALANCES - BEGINNING	<u>436,348</u>	<u>455,539</u>	<u>19,191</u>
FUND BALANCES - ENDING	<u>\$ 441,883</u>	<u>\$ 1,017,873</u>	<u>\$ 575,990</u>

SUPPLEMENTARY INFORMATION

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ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
SCHEDULE OF REVENUES, EXPENDITURES AND
CHANGES IN FUND BALANCES - BUDGET AND ACTUAL
FOR THE SIX MONTHS ENDED JUNE 30, 2020

DEBT SERVICE FUND

	Annual Budget	Year to Date Actual	Variance
REVENUES			
Property taxes	\$ 829,326	\$ 817,493	\$ (11,833)
Interest income	55,000	19,944	(35,056)
TOTAL REVENUES	<u>884,326</u>	<u>837,437</u>	<u>(46,889)</u>
EXPENDITURES			
County Treasurer's fee	12,440	12,264	176
Paying agent fees	2,700	1,200	1,500
Bond interest - Series 1993	138,407	69,697	68,710
Bond interest - Series 2014	47,299	23,650	23,649
Bond principal - Series 2014	875,000	-	875,000
Bond principal - Series 1993	900,000	-	900,000
Contingency	5,000	-	5,000
TOTAL EXPENDITURES	<u>1,980,846</u>	<u>106,811</u>	<u>1,874,035</u>
NET CHANGE IN FUND BALANCES	(1,096,520)	730,626	1,827,146
FUND BALANCES - BEGINNING	<u>2,331,025</u>	<u>2,354,162</u>	<u>23,137</u>
FUND BALANCES - ENDING	<u>\$ 1,234,505</u>	<u>\$ 3,084,788</u>	<u>\$ 1,850,283</u>

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ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
 SCHEDULE OF REVENUES, EXPENDITURES AND
 CHANGES IN FUND BALANCES - BUDGET AND ACTUAL
 FOR THE SIX MONTHS ENDED JUNE 30, 2020

CAPITAL PROJECTS FUND

	Annual Budget	Year to Date Actual	Variance
REVENUES			
Lottery proceeds	\$ 36,000	\$ 17,680	\$ (18,320)
TOTAL REVENUES	<u>36,000</u>	<u>17,680</u>	<u>(18,320)</u>
EXPENDITURES			
Accounting	3,000	-	3,000
Baseball field improvements	5,000	-	5,000
Contingency	100,000	-	100,000
District management	40,000	20,555	19,445
Engineering	20,000	17,928	2,072
Irrigation upgrades/replacement	150,000	-	150,000
Legal services	5,000	1,166	3,834
Master plan	325,000	92,075	232,925
Parking lot improvements	3,000	-	3,000
Spillway / embankment	150,000	2,968	147,032
Trails/bike path	25,000	-	25,000
Water rights enhancements	20,000	13,750	6,250
TOTAL EXPENDITURES	<u>846,000</u>	<u>148,442</u>	<u>697,558</u>
NET CHANGE IN FUND BALANCES	(810,000)	(130,762)	679,238
FUND BALANCES - BEGINNING	<u>1,553,426</u>	<u>1,798,600</u>	<u>245,174</u>
FUND BALANCES - ENDING	<u>\$ 743,426</u>	<u>\$ 1,667,838</u>	<u>\$ 924,412</u>

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ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
SCHEDULE OF REVENUES AND EXPENDITURES
FOR THE SIX MONTHS ENDED JUNE 30, 2020

CHATFIELD FARMS

	Annual Budget	Year to Date Actual	Variance
REVENUES			
Property taxes	\$ 261,722	\$ 288,197	\$ 26,475
TOTAL REVENUES	<u>261,722</u>	<u>288,197</u>	<u>26,475</u>
EXPENDITURES			
Accounting	6,750	4,382	2,368
Algae control	750	-	750
Auditing	750	-	750
Communications/website	80	34	46
Community events	5,250	10	5,240
County Treasurer's fee	3,926	4,324	(398)
Directors' fees	1,200	574	626
District management	18,112	14,902	3,210
Dues and licenses	180	154	26
Election expense	9,750	1,276	8,474
Engineering	6,750	2,382	4,368
Graffiti removal/ vandalism	750	362	388
Insurance and bonds	1,950	1,503	447
Landscape contract	40,000	20,000	20,000
Landscape improvement	11,250	1,903	9,347
Landscape irrigation maintenance	3,750	3,304	446
Landscape weed control	3,000	1,533	1,467
Legal services	10,500	7,980	2,520
Miscellaneous	600	128	472
Mosquito control	2,400	906	1,494
Newsletter and postage	450	309	141
Nonpotable water purchase usage	10,500	1,483	9,017
Portable restrooms	1,500	920	580
Repairs and maintenance	3,000	2,622	378
Seasonal lights	2,100	-	2,100
Skate Park maintenance	2,250	-	2,250
Snow removal	6,000	3,020	2,980
Tree maintenance	6,000	-	6,000
Utilities	2,250	-	2,250
Capital outlay / expenses	48,750	-	48,750
Water rights / enhancements	3,000	-	3,000
TOTAL EXPENDITURES	<u>213,498</u>	<u>74,011</u>	<u>139,487</u>
NET CHANGE IN FUND BALANCES	48,224	214,186	165,962
FUND BALANCES - BEGINNING	<u>611,139</u>	<u>611,139</u>	<u>-</u>
FUND BALANCES - ENDING	<u>\$ 659,363</u>	<u>825,325</u>	<u>\$ 165,962</u>
INTEREST ON SHORTFALL		14,058	
CAPITAL RESERVE CONTRIBUTION			
Annual Contribution - Prior Years		(391,604)	
Annual Contribution - Current Year		(31,198)	
		<u>\$ 416,581</u>	

**ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
2020 BUDGET
SUMMARY OF SIGNIFICANT ASSUMPTIONS**

Services Provided

The District, a quasi-municipal corporation and a political subdivision of the State of Colorado, was organized on July 10, 1985, and is governed pursuant to provisions of the Colorado Special District Act (Title 32, Article 1, Colorado Revised Statutes). The District's operates under a Service Plan approved by Douglas County on July 24, 1985. The District's service area is located in Douglas County, Colorado. The District was established to provide irrigation, drainage and storm facilities, street improvements, park and recreational facilities.

On September 3, 1985, the District's voters authorized total indebtedness of \$12,000,000 for the above listed facilities and powers. The authorization provided that the bonds would be subject to a maximum net interest rate of 15% per annum. At a special election on December 30, 1992, the District's voters authorized an additional \$14,000,000. The authorization provided that the bonds would be subject to a minimum mill levy for property taxes which increases from 16.0 mills in 1993 to 39.5 mills in 2005 through 2042 adjusted for changes in the State mandated assessment procedures and the levy must be sufficient to generate a minimum revenue as stated in the ballot question. On November 2, 2004, the District's voters authorized additional indebtedness in an amount not to exceed \$10,500,000 at an interest rate not to exceed 7% per annum. At December 31, 2017 the District had authorized but unissued indebtedness of \$475,000 for the purpose of debt refunding.

The budget is in accordance with the TABOR Amendment limitations, which were modified by the voters in an election held on November 6, 2001. District voters approved authorization for the District to retain and spend District revenues, from any lawful source, in excess of the spending, revenue raising, or other limitations in Article X, Section 20 of the Colorado constitution. Emergency reserves, required under TABOR have been provided.

The District has no employees and all administrative functions are contracted.

The District prepares its budget on the modified accrual basis of accounting in accordance with the requirements of C.R.S. 29-1-105 using its best estimates as of the date of the budget hearing. These estimates are based on expected conditions and its expected course of actions. The assumptions disclosed herein are those that the District believes are significant to the budget. There will usually be differences between the budget and actual results, because events and circumstances frequently do not occur as expected, and those differences may be material.

Revenues

Property Taxes

Property taxes are levied by the District's Board of Directors. The levy is based on assessed valuations determined by the County Assessor generally as of January 1 of each year. The levy is normally set by December 15 by certification to the County Commissioners to put the tax lien on the individual properties as of January 1 of the following year. The County Treasurer collects the determined taxes during the ensuing calendar year. The taxes are payable by April or, if in equal installments, at the taxpayer's election, in February and June. Delinquent taxpayers are notified in August and generally sales of the tax liens on delinquent properties are held in November or December. The County Treasurer remits the taxes collected monthly to the District.

**ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
2020 BUDGET
SUMMARY OF SIGNIFICANT ASSUMPTIONS**

Revenues - (continued)

The District's maximum Required Mill Levy for the Series 1993 Bonds is 73.109 mills, adjusted for changes in the ratio of actual value to assessed value of property within the District. Required Mill Levy means an ad valorem mill levy imposed upon all taxable property of the District each year in an amount sufficient to pay the principal, premium if any, and interest on the Bonds as the same become due and payable.

The calculation of taxes levied is displayed on the Property Tax Summary Information page of the budget using the adopted mill levy imposed by District.

Specific Ownership Taxes

Specific ownership taxes are set by the State and collected by the County Treasurer, primarily on vehicle licensing within the County as a whole. The specific ownership taxes are allocated by the County Treasurer to all taxing entities within the County. The budget assumes that the District's share will be equal to approximately 9% of the property taxes collected by both the General Fund and the Debt Service Fund.

Net Investment Income

Interest earned on the District's available funds has been estimated based on historical interest earnings.

Expenditures

Administrative and Operating Expenditures

Administrative and operating expenditures include the estimated services necessary to maintain the District's administrative viability such as management, legal, accounting, insurance, banking, meeting expense, repairs and maintenance and other operating expenses. Such expenses have been assumed to be at approximately the same levels as the prior year since no significant changes are anticipated in the level or scope of service.

County Treasurer's Fees

County Treasurer's fees have been computed at 1.5 % of property tax collections.

Debt Service

Principal and interest payments in 2020 are provided based on the debt amortization schedule from the Series 1993 Bonds and Series 2014 Loan (discussed under Debt and Leases).

Capital Projects

Anticipated expenditures for capital outlay are detailed on the Capital Project Fund page of the Budget.

**ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
2020 BUDGET
SUMMARY OF SIGNIFICANT ASSUMPTIONS**

Debt and Leases

Series 1993 Bonds

The bonds are payable only from the revenue from the voter approved mill levy (December 1991 election) to generate a “guaranteed revenue” deposited directly to the Trustee and restricted for Series A and B, including interest earned on the cash deposited. The requirement for a replenishable reserve of \$50,000 ended in 2003. Any unpaid interest compounds semi-annually.

1993 Series B Principal Only

\$6,247,629 of principal bears interest at 10.41%, payable semiannually, and matures December 31, 2021. The Series B Principal Only Bonds are subject to mandatory redemption in increasing amounts in 2000 through 2021. The bonds are not callable at the option of the District.

Series 2014 Loan

\$6,390,000 General Obligation Refunding Tax-Free Loan, Series 2014, dated October 24, 2014, with interest of 2.03%. The Loan is payable semiannually and matures December 1, 2021, and is subject to mandatory redemption beginning in 2014 through 2021 in increasing amounts. The Loan is not subject to redemption prior to maturity.

Reserves

Emergency Reserves

The District has provided for an Emergency Reserve fund equal to at least 3% of fiscal year spending, as defined under TABOR.

ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
SCHEDULE OF DEBT SERVICE REQUIREMENTS TO MATURITY
December 31, 2019

Year	1993 Series B (Note A) Principal Only Bonds Interest Rate 10.41% Principal Paid December 31 Interest Paid June 30 and December 31		2014 Series - \$6,390,000 General Obligation Refunding Tax-Free Loan October 24, 2014 Interest Rate 2.03% Interest Paid June 1 and December 1		Total		
	Principal	Interest	Principal	Interest	Principal	Interest	Total
2020	\$ 900,000	\$ 138,407	\$ 875,000	\$ 47,299	\$ 1,775,000	\$ 185,706	\$ 1,960,706
2021	429,560	44,717	1,455,000	29,537	1,884,560	74,254	1,958,814
	<u>\$ 1,329,560</u>	<u>\$ 183,124</u>	<u>\$ 2,330,000</u>	<u>\$ 76,836</u>	<u>\$ 3,659,560</u>	<u>\$ 259,960</u>	<u>\$ 3,919,520</u>

DRAFT

ROXBOROUGH VILLAGE METROPOLITAN DISTRICT

Schedule of Cash Position

June 30, 2020

Updated as of August 11, 2020

	General Fund	Debt Service Fund	Capital Projects Fund	Total
<u>FirstBank - Checking Account</u>				
Balance as of 06/30/20	\$ 63,093.29	\$ -	\$ 50,661.36	\$ 113,754.65
Subsequent activities:				-
07/02/20 - Bill.com Payments	(1,616.28)	-	(50,661.36)	(52,277.64)
07/06/20 - Bill.com Payments	(990.00)	-	-	(990.00)
07/13/20 - Transfer from Colostrust	91,159.80	-	8,840.20	100,000.00
07/16/20 - Roxborough Water Payment- June	(3,238.62)	-	-	(3,238.62)
07/22/20 - IREA June	(1,259.57)	-	-	(1,259.57)
07/28/20 - Bill.com Payments	(95,366.56)	-	(14,783.05)	(110,149.61)
07/28/20 - Transfer from Colostrust	7,007.15	-	8,992.85	16,000.00
07/28/20 - ADP Payroll/Taxes - July	(430.60)	-	-	(430.60)
07/28/20 - Xcel June	(20.31)	-	-	(20.31)
08/03/20 - Bill.com Payments	(635.00)	-	-	(635.00)
08/05/20 - Bill.com Payments	(2,454.38)	-	-	(2,454.38)
08/06/20 - Bill.com Payments	-	-	(3,050.00)	(3,050.00)
Anticipated ADP Payroll/taxes - June, August Special	(1,076.50)	-	-	(1,076.50)
Anticipated Payables	(52,258.37)	-	(68,214.56)	(120,472.93)
Anticipated IREA Payment - July bills	(1,584.97)	-	-	(1,584.97)
Anticipated Roxborough Water payment - July bills	(1,989.90)	-	-	(1,989.90)
Anticipated Transfer from Colostrust	52,785.44	-	68,214.56	121,000.00
Anticipated Balance	51,124.62	-	-	51,124.62
<u>Colostrust - Plus</u>				
Balance as of 06/30/20	683,690.09	1,428,805.33	1,694,912.44	3,807,407.86
Subsequent activities:				
07/10/20 - June PTAX	358,149.20	290,884.51	-	649,033.71
07/13/20 - Transfer to Checking	(91,159.80)	-	(8,840.20)	(100,000.00)
07/28/20 - Transfer to Checking	(7,007.15)	-	(8,992.85)	(16,000.00)
07/31/20 - Interest Income	415.69	969.94	-	1,385.63
08/10/20 - July PTAX	24,370.19	7,831.10	-	32,201.29
Anticipated Transfer to Checking	(52,785.44)	-	(68,214.56)	(121,000.00)
Anticipated December 1 D/S Payment	-	(898,649.50)	-	(898,649.50)
Anticipated Balance	915,672.78	829,841.38	1,608,864.83	3,354,378.99
<u>UMB - 1993 A & B Bond Fund</u>				
Balance as of 06/30/20	-	1,365,098.39	-	1,365,098.39
Subsequent activities:				
07/31/20 - Interest Income	-	11.68	-	11.68
Anticipated December 31 D/S Payment	-	(969,203.50)	-	(969,203.50)
Anticipated Balance	-	395,906.57	-	395,906.57
Anticipated Balances	\$ 966,797.40	\$ 1,225,747.95	\$ 1,608,864.83	\$ 3,801,410.18

Yield information (as of 06/30/20):

First Bank - 0.0%

Colostrust Plus - 0.50%

ROXBOROUGH VILLAGE METRO DISTRICT
Property Taxes Reconciliation
2020

	Current Year							Prior Year			
	Property Taxes	Delinquent Taxes, Rebates and Abatements	Specific Ownership Taxes	Interest	Treasurer's Fees	Net Amount Received	% of Total Property Taxes Received		Total Cash Received	% of Total Property Taxes Received	
							Monthly	Y-T-D		Monthly	Y-T-D
January	\$ 36,897.20	\$ -	\$ 15,073.46	\$ -	\$ (553.44)	\$ 51,417.22	2.04%	2.04%	\$ 107,497.35	2.53%	2.53%
February	771,470.09	-	10,716.77	-	(11,572.05)	770,614.81	42.57%	44.61%	1,366,897.70	42.52%	45.05%
March	60,864.98	-	10,431.17	6.03	(913.07)	70,389.11	3.36%	47.97%	138,944.83	3.52%	48.57%
April	144,308.02	-	9,813.05	-	(2,164.64)	151,956.43	7.96%	55.93%	242,363.71	6.87%	55.44%
May	127,842.92	-	10,840.72	65.81	(1,918.64)	136,830.81	7.06%	62.99%	319,919.86	9.23%	64.67%
June	644,839.65	-	13,678.06	191.48	(9,675.48)	649,033.71	35.59%	98.57%	1,092,289.73	33.79%	98.46%
July	16,440.90	-	15,590.90	422.42	(252.93)	32,201.29	0.91%	99.48%	60,808.27	0.96%	99.42%
August	-	-	-	-	-	-	0.00%	99.48%	40,946.33	0.35%	99.78%
September	-	-	-	-	-	-	0.00%	99.48%	31,451.65	0.05%	99.83%
October	-	-	-	-	-	-	0.00%	99.48%	18,662.53	-0.26%	99.57%
November	-	-	-	-	-	-	0.00%	99.48%	26,396.63	-0.06%	99.51%
December	-	-	-	-	-	-	0.00%	99.48%	32,171.88	0.00%	99.51%
Total	\$ 1,802,663.76	\$ -	\$ 86,144.13	\$ 685.74	\$ (27,050.25)	\$ 1,862,443.38	99.48%	99.48%	\$ 3,478,350.47	99.51%	99.51%

Taxes Levied	% of Levied	Property Taxes Collected	% Collected to Amount Levied
\$ 982,751	54.23%	\$ 977,645.88	99.48%
829,326	45.77%	825,017.88	99.48%
\$ 1,812,077	100.00%	\$ 1,802,663.76	99.48%

Chatfield Farms
\$ 261,722.00
-
\$ 261,722.00

Property Tax

General Fund
 Debt Service Fund

Specific Ownership Tax

General Fund
 Debt Service Fund

Treasurer's Fees

General Fund
 Debt Service Fund

\$ 163,087	100.00%	\$ 86,144.13	52.82%
-	0.00%	-	0.00%
\$ 163,087	100.00%	\$ 86,144.13	52.82%

\$ 4,364.40
-
\$ 4,364.40

Roxborough Village Metro District
Unpaid Bills
08.11.20

Vendor	Invoice #	Open Balance
ACH		
*Intermountain Rural Electric Association	25782000	806.93
*Intermountain Rural Electric Association	85210100	100.10
*Intermountain Rural Electric Association	21367302	21.34
*Intermountain Rural Electric Association	26129901	21.00
*Intermountain Rural Electric Association	25968000	22.02
*Intermountain Rural Electric Association	85311000	22.58
*Intermountain Rural Electric Association	85311102	504.00
*Intermountain Rural Electric Association	85350300	21.00
*Intermountain Rural Electric Association	21419100	48.00
*Intermountain Rural Electric Association	23509300	18.00
		1,584.97
Roxborough Water & Sanitation District	7122027	1,088.10
Roxborough Water & Sanitation District	7121316	188.40
Roxborough Water & Sanitation District	7122381	105.60
Roxborough Water & Sanitation District	7124611	607.80
		1,989.90
Check or Epayment		
Bailey Tree, LLC	8543	6,990.00
CliftonLarsonAllen, LLP	2582909	11,662.50
CliftonLarsonAllen, LLP	2582909	1,043.25
Foothills Park & Recreation District	SALES000000033414	596.91
Foothills Park & Recreation District	SALES000000033388	509.50
Josh Dalbey	Reimbursement	350.33
Metco Landscape, LLC	551278	6,450.00
Metco Landscape, LLC	551568	750.23
Metco Landscape, LLC	551935	520.00
Metco Landscape, LLC	551567	609.05
Metco Landscape, LLC	551566	1,460.00
Metco Landscape, LLC	SM190863	13,797.00
National Domains	142-22-121339	224.00
Patriot Pest Control	964404	2,000.00
United Site Services	114-10689918	172.80
United Site Services	114-10689920	172.80
WIPFLI LLP	1645408	4,950.00
Ben Kelly	008.7.2020.1	1,800.00
Chavez Services LLC	CW-2020-109	49,599.00
CliftonLarsonAllen, LLP	2582909	2,325.26
Evolution Builders	19183	12,290.30
Metco Landscape, LLC	551927	2,200.00
Total Checks/E-payments		120,472.93

Proposal

Page No.

of

Pages

60

GOOD PLUMBING SERVICE CO.

5401 West 48th Avenue

Denver Colorado 80212

(303) 455-4307

FAX 303-458-7058

Nick

PROPOSAL SUBMITTED TO

Roxborough Metro dist

PHONE

303 265-7900

DATE

8-6-20

STREET

JOB NAME

Roxborough Community Park

CITY, STATE and ZIP CODE

JOB LOCATION

7599 N Rampart Range Rd

ARCHITECT

DATE OF PLANS

JOB PHONE

909-762-2650

We hereby submit specifications and estimates for:

- ① Repair existing Delay Flush valves if possible
approx \$600⁰⁰ to \$700⁰⁰
- ② Replace auto flush valves with new Sloan battery
operated auto valves \$5232⁰⁰ see cut sheet
- ③ same as number 2 but use manual flush
valves \$2891⁰⁰ ③ Toilets ① urinal
- ④ winterize unit approx \$500⁰⁰ (can not guar
antee water feed under slab)

* Parts are 4 to 6 weeks out of factory

* I suggest #3 opt

* no Insulation in bid

* not Responsible for underground utilities

We Propose hereby to furnish material and labor — complete in accordance with above specifications, for the sum of:

Payment to be made as follows:

dollars (\$ see above).

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation Insurance.

Authorized
SignatureNote: This proposal may be
withdrawn by us if not accepted within 30 days.

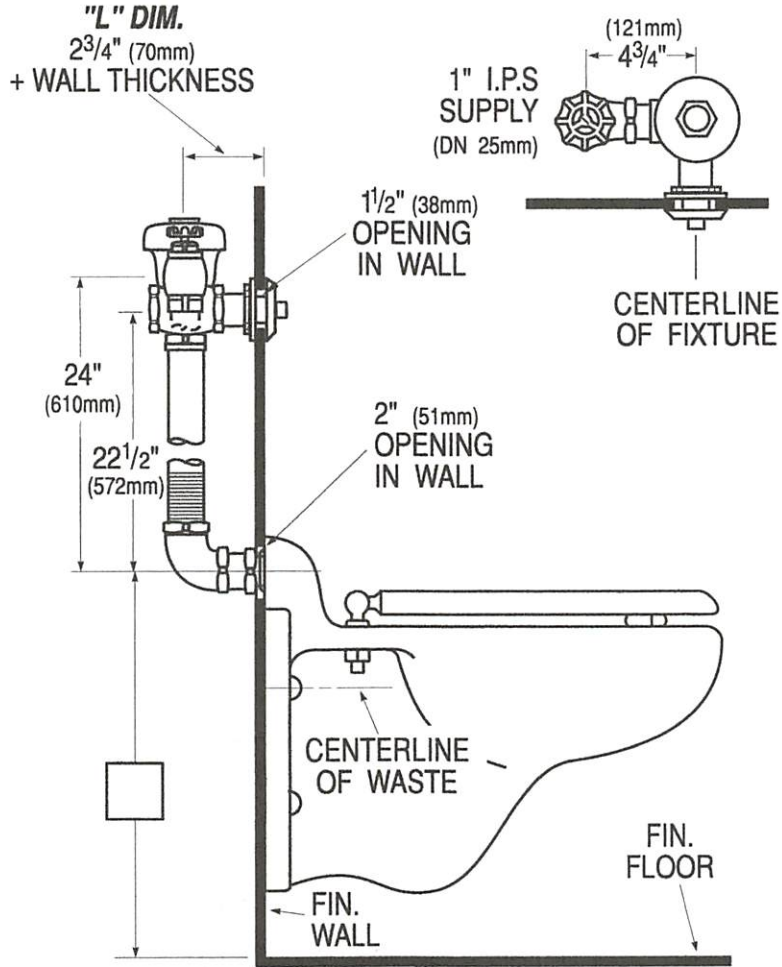
Acceptance of Proposal — The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Date of Acceptance: _____

Signature _____

Signature _____

ROUGH-IN

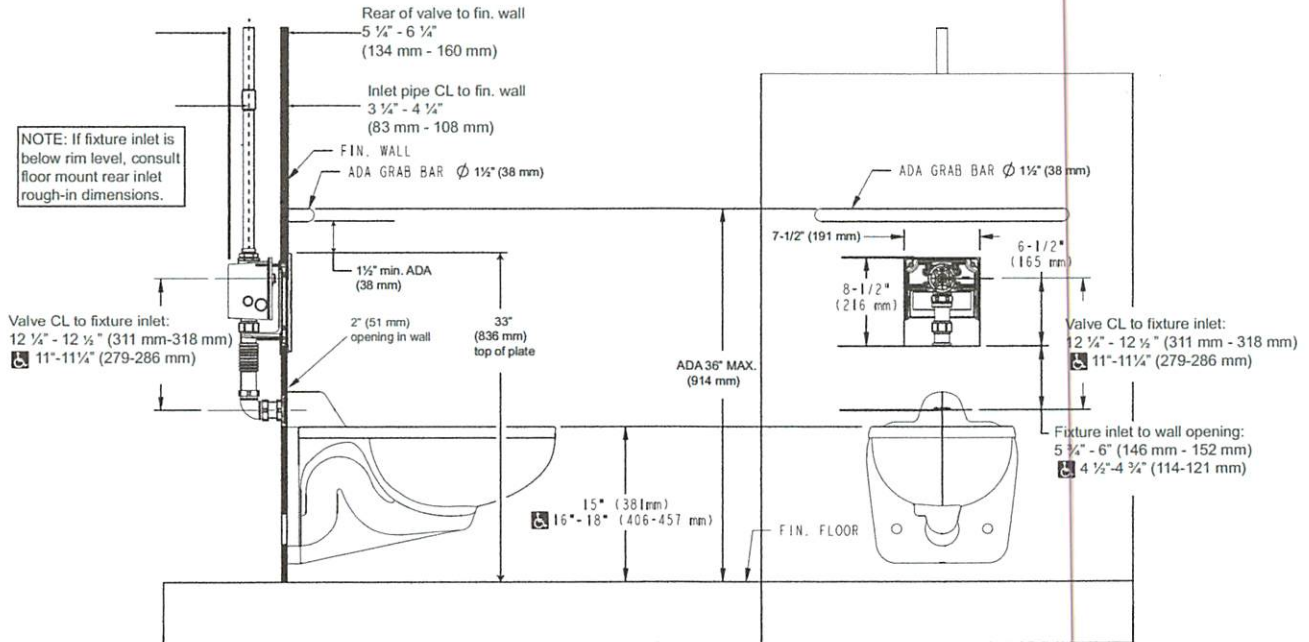


Manuel

 PVD Special Finishes

Find a compatible urinal for this flushometer.
Find a compatible water closet for this flushometer.

ROUGH-IN



Battery

Sloan 10500 Seymour Ave, Franklin Park, IL 60131
 Phone: 800.982.5839 • Fax: 800.447.8329 • sloan.com

Aaron W. Barrick
Marc C. Patoile
Kathryn T. James
Matthew S. Patton
Lindsay J. Miller
Joe D. Kinlaw, II
Lauren O. Patton

August 12, 2020

SENT VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Joe Brown
7587 Jared Way
Littleton, Colorado 80125

Re: Encroachment into a District owned open space parcel adjacent to Imperial Homes at Roxborough Village Filing 2
By 7587 Jared Way, Littleton, Colorado 80125
Lot 5, Block 1, Imperial Homes at Roxborough Village #2

Dear Mr. Brown:

I am District Legal Counsel for Roxborough Village Metropolitan District, the owner of the 6.5 acre open space parcel adjacent to Imperial Homes a Roxborough Village Filing 2. It has recently come to our attention that you have a trail and sunset patio outside the boundary of your property from your back fence into the open space. An aerial photograph is enclosed to illustrate this encroachment.

The District's policy is as follows:

Encroachments onto property maintained by the District is prohibited. These areas must be free of obstructions to permit snow removal, grass mowing, to promote public safety, and to maintain a uniform appearance of the open space.

The District also has Rules and Regulations that state that it is unlawful for any person "to construct, place, or maintain any kind of road, trail, structure, sign, fence, marker, enclosure, communication equipment or other improvement within any Parks or Open Space without written approval from the District Manager."

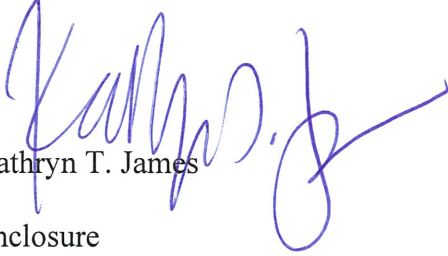
Please remove the sunset patio immediately, and cease use of the trail so that it can return to its natural ground state. The District Board will evaluate whether any restoration of the area is required once the patio has been removed, and will instruct you accordingly.

If you have any questions about this policy, the Rules and Regulations, or about the District's property boundaries, please call Anna Jones, District Manager at (303) 793-1478.

Thank you in advance for your cooperation.

Sincerely,

FOLKESTAD FAZEKAS BARRICK & PATOILE, P.C.



Kathryn T. James

Enclosure

cc: Anna Jones, District Manager
Scott Barnett





**RESOLUTION
OF THE BOARD OF DIRECTORS OF
ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
DOUGLAS COUNTY, COLORADO**

**A RESOLUTION AUTHORIZING DISTRICT MANAGERS TO APPROVE
EXPENDITURES OF DISTRICT FUNDS**

The Board of Directors (the "Board") of the Roxborough Village Metropolitan District, a quasi-municipal corporation and political subdivision of the State of Colorado (the "District") has determined that it is in the best interest of District residents and property owners to authorize the District Managers approve expenditures of District funds in certain limited amounts without the need for pre-approval by the Board.

NOW, THEREFORE, be it resolved by the Board of Directors of Roxborough Village Metropolitan District, Douglas County, Colorado, that:

District Managers are hereby authorized, on behalf of the District, to approve expenditures of District funds in an amount not to exceed \$1,000.00 if, in his or her determination: (1) the expenditure is necessary or appropriate for carrying out and performing the obligations of the District; and (2) approval of such expenditure by the Board cannot be obtained in a timely manner; and further

Notification shall be given to the other Board members of such actions by the District Manager, and ratification of such actions shall subsequently be placed on the agenda for the next scheduled Board meeting.

APPROVED AND ADOPTED this 18th day of August, 2020, by a vote of ____ for and ____ against.

ROXBOROUGH VILLAGE METROPOLITAN
DISTRICT, a quasi-municipal corporation and
political subdivision of the State of Colorado

By: _____
Calvin Brown, President

ATTEST:

By: _____
Edward Wagner, Secretary

**RESOLUTION
OF THE BOARD OF DIRECTORS OF
ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
DOUGLAS COUNTY, COLORADO**

**AMENDED RESOLUTION AUTHORIZING THE DISTRICT PRESIDENT TO
APPROVE EXPENDITURE OF DISTRICT FUNDS**

The Board of Directors (the “Board”) of the Roxborough Village Metropolitan District, a quasi-municipal corporation and political subdivision of the State of Colorado (the “District”) has determined that it is in the best interest of District residents and property owners to authorize the District to amend the current Resolution Authorizing the District President to approve expenditures of District funds in certain limited amounts without the need for pre-approval by the Board. The current Resolution is attached herein as Exhibit A.

NOW, THEREFORE, be it resolved by the Board of Directors of Roxborough Village Metropolitan District, Douglas County, Colorado, that:

The District President is hereby authorized, on behalf of the District, to approve expenditure of District funds in an amount not to exceed \$5,000.00 as may be necessary to respond to emergency situations that potentially threaten the health, safety or welfare of District customers or residents, or for which immediate action is necessary; and further

The District President is hereby authorized, on behalf of the District, to approve expenditure of District funds in an amount not to exceed \$3,000.00 in non-emergency situations if, in his or her determination: (1) the expenditure is necessary or appropriate for carrying out and performing the obligations of the District; and (2) approval of such expenditure by the Board cannot be obtained in a timely manner; and further.

Notification shall be given to the other Board members of such actions by the District President, and ratification of such actions shall subsequently be placed on the agenda for the next scheduled Board meeting.

APPROVED AND ADOPTED this ____ day of _____, 2020, by a vote of ____ for and ____ against.

ROXBOROUGH VILLAGE METROPOLITAN
DISTRICT, a quasi-municipal corporation and
political subdivision of the State of Colorado

By: _____
Calvin Brown, President

ATTEST:

By: _____
Edward Wagner, Secretary

**RESOLUTION
OF THE BOARD OF DIRECTORS OF
ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
DOUGLAS COUNTY, COLORADO**

**A RESOLUTION AUTHORIZING THE DISTRICT PRESIDENT TO APPROVE
EXPENDITURES OF DISTRICT FUNDS**

The Board of Directors (the "Board") of the Roxborough Village Metropolitan District, a quasi-municipal corporation and political subdivision of the State of Colorado (the "District") has determined that it is in the best interest of District residents and property owners to authorize the District President to approve expenditures of District funds in certain limited amounts without the need for pre-approval by the Board.

NOW, THEREFORE, be it resolved by the Board of Directors of Roxborough Village Metropolitan District, Douglas County, Colorado, that:

The District President is hereby authorized, on behalf of the District, to approve expenditure of District funds in an amount not to exceed \$3,000.00 as may be necessary to respond to emergency situations that potentially threaten the health, safety or welfare of District customers or residents, or for which immediate action is necessary; and further

The District President is hereby authorized, on behalf of the District, to approve expenditure of District funds in an amount not to exceed \$1,000.00 in non-emergency situations if, in his or her determination: (1) the expenditure is necessary or appropriate for carrying out and performing the obligations of the District; and (2) approval of such expenditure by the Board cannot be obtained in a timely manner; and further

Notification shall be given to the other Board members of such actions by the District President, and ratification of such actions shall subsequently be placed on the agenda for the next scheduled Board meeting.

APPROVED AND ADOPTED this 20th day of June, 2017, by a vote of 4 for and 0 against.

ROXBOROUGH VILLAGE METROPOLITAN DISTRICT, a quasi-municipal corporation and political subdivision of the State of Colorado

By: Judi Holden
Judi Holden, President

ATTEST:
By: R. E. Clivard
Ronald Bendall, Secretary Assistant
Bob Clivard



METCO LANDSCAPE, INC.

Monthly Maintenance Report for Roxborough Village Metropolitan District

Submitted by: **Bill Barr** **Aug-20** Recipients: **Anna Jones, Public Manager**

REVIEW OF GANTTED OPERATIONS

Turf

We have been extremely dry this season spot watering is on going for turf

Shrub Beds

Shrub beds are doing well we are going in checking on drip during normal inspections

Trees

More trees need to be cut down by Baily Tree there will be a proposal for replacement

Irrigation

We have been dealing with several leaks a couple of them have been 6" pipe

Site Policing

continued portering

Overall Site

We will begin to clean up drainage ditch along Rampart Rd also finishing up with Rock

Review of Operatons for Upcoming Month:

Schedule, Gantt, special Needs, Concerns, Areas of Focus

Planting Trees for the replacement of the dead ones in several spots

Total: **\$1,200.00**

NS OF *This proposal is valid for 60 days. After 60 days, pricing may need to be revised*

CONDITIO

Extra Work Proposal 8/7/2020

CONTRACT SPECIFICATIONS & LIMITATIONS

All material is guaranteed to be as specified in

Unit Prices – The Base

Alternates / Time &

Scheduling – Landscape enhancement contracts

Watering and Maintenance

Seeding – Re-seeding or re-sodding of

GUARANT

Our guarantee is

All claims for

Plant Material Guarantee – Metco Landscaping guarantees

We will not guarantee plants damaged or

TERMS

Invoices will be sent after the contract work is completed,

CANCELL

This contract may be cancelled by either party with a 30-

DISPUTES

All disputes shall be

**PHOTOS
DAPLM**

Metco
Landscape,

SIGNAGE

By signing
this contract
you, the
Owner, are

UTILITIES/UNKNOWN OBSTRUCTIONS

reasonable
caution will
be taken to
prevent
damage to
existing
pavement,
septic tanks,
septic fields
and

OWNER'S RESPONSIBILITIES

Harmless -
To the fullest
extent
permitted by

Total: **\$3,700.00**

NS OF *This proposal is valid for 60 days. After 60 days, pricing may need to be revised*

CONDITIO

Extra Work Proposal 8/3/2020

CONTRACT SPECIFICATIONS & LIMITATIONS

All material is guaranteed to be as specified in

Unit Prices – The Base

Alternates / Time &

Scheduling – Landscape enhancement contracts

Watering and Maintenance

Seeding – Re-seeding or re-sodding of

GUARANT

Our guarantee is

All claims for

Plant Material Guarantee – Metco Landscaping guarantees

We will not guarantee plants damaged or

TERMS

Invoices will be sent after the contract work is completed,

CANCELL

This contract may be cancelled by either party with a 30-

DISPUTES

All disputes shall be

**PHOTOS
DAPLM**

Metco
Landscape,

SIGNAGE

By signing
this contract
you, the
Owner, are

UTILITIES/UNKNOWN OBSTRUCTIONS

reasonable
caution will
be taken to
prevent
damage to
existing
pavement,
septic tanks,
septic fields
and

OWNER'S RESPONSIBILITIES

Harmless -
To the fullest
extent
permitted by

Total: **\$18,250.00****NS OF** *This proposal is valid for 60 days. After 60 days, pricing may need to be revised*

CONDITIO

Extra Work Proposal**8/11/2020****CONTRACT SPECIFICATIONS & LIMITATIONS**

All material
is
guaranteed
to be as
specified in

Unit Prices –
The Base

Alternates /
Time &

Scheduling –
Landscape
enhancemen
t contracts

Watering
and
Maintenance

Seeding –
Re-seeding
or re-
sodding of

GUARANT

Our
guarantee is

All claims for

Plant
Material
Guarantee –
Metco
Landscaping
guarantees

We will not
guarantee
plants
damaged or

TERMS

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This contract
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cancelled by
either party
with a 30-

DISPUTES

All disputes
shall be

**PHOTOS
DAILY**

Metco
Landscape,

SIGNAGE

By signing
this contract
you, the
Owner, are

UTILITIES/UNKNOWN OBSTRUCTIONS

reasonable
caution will
be taken to
prevent
damage to
existing
pavement,
septic tanks,
septic fields
and

OWNER'S RESPONSIBILITIES

Harmless -
To the fullest
extent
permitted by

**THE FOLLOWING ARE POST PACKET ITEMS:
ITEMS THAT WERE DISTRIBUTED AT THE MEETING
AND NOT IN THE ORIGINAL PACKET**

Roxborough Village Metro District
Unpaid Bills
July 21, 2020

Vendor	Invoice #	Date	Amount
<u>ACH Payments</u>			
*Intermountain Rural Electric Association	25782000	6/30/2020	\$ 514.48
*Intermountain Rural Electric Association	25968000	6/30/2020	22.02
*Intermountain Rural Electric Association	85311000	6/30/2020	23.15
*Intermountain Rural Electric Association	85350300	6/30/2020	21.00
*Intermountain Rural Electric Association	85311102	6/30/2020	504.00
*Intermountain Rural Electric Association	26129901	6/30/2020	21.00
*Intermountain Rural Electric Association	85210100	6/30/2020	66.47
*Intermountain Rural Electric Association	21367302	6/30/2020	21.45
*Intermountain Rural Electric Association	21419100	7/1/2020	48.00
*Intermountain Rural Electric Association	23509300	7/21/2020	18.00
*Roxborough Water & Sanitation District	7122027	6/30/2020	1,365.60
*Roxborough Water & Sanitation District	7124611	6/30/2020	770.30
*Roxborough Water & Sanitation District	7122162	6/30/2020	802.42
*Roxborough Water & Sanitation District	7121316	6/30/2020	194.70
*Roxborough Water & Sanitation District	7122381	6/30/2020	105.60
*Xcel Energy	53-2326583-6	6/30/2020	20.31
			4,518.50
<u>Check or ePayment</u>			
ARK Ecological Services, LLC	3448	6/30/2020	10,150.74
CliftonLarsonAllen, LLP	2550337	6/30/2020	14,810.52
CliftonLarsonAllen, LLP	2553887	7/17/2020	8,147.45
Folkestad Fazekas Barrick & Patoile, P.C	34702	6/30/2020	1,015.50
Folkestad Fazekas Barrick & Patoile, P.C	34704	6/30/2020	1,166.50
Folkestad Fazekas Barrick & Patoile, P.C	34701	6/30/2020	7,907.00
Folkestad Fazekas Barrick & Patoile, P.C	34703	6/30/2020	570.50
HydroSystems	20258	6/28/2020	3,300.00
Lightning Mobile Services, LLC	4277	7/12/2020	635.00
Livable Cities Studio, Inc.	1353	7/15/2020	3,050.00
Metco Landscape, LLC	SM182108	4/1/2020	13,797.00
Metco Landscape, LLC	547712	5/4/2020	712.00
Metco Landscape, LLC	549858	6/19/2020	4,131.42
Metco Landscape, LLC	550001	6/22/2020	3,375.00
Metco Landscape, LLC	550559	6/30/2020	709.43
Metco Landscape, LLC	550279	6/30/2020	7,225.00
Metco Landscape, LLC	550297	6/30/2020	910.00
Metco Landscape, LLC	SM188896	7/1/2020	13,797.00
Metco Landscape, LLC	551098	7/14/2020	2,003.44
Metco Landscape, LLC	551099	7/14/2020	450.94
Mulhern MRE Inc.	MMRE62055	5/31/2002	340.00
Mulhern MRE Inc.	MMRE62053	5/31/2020	4,577.85
Mulhern MRE Inc.	MMRE62056	5/31/2020	1,041.85
Mulhern MRE Inc.	MMRE62054	5/31/2020	408.00
Mulhern MRE Inc.	MMRE62074	6/1/2020	7,989.40
Mulhern MRE Inc.	MMRE62073	6/15/2020	816.00
Mulhern MRE Inc.	MMRE62075	6/30/2020	136.00
Mulhern MRE Inc.	MMRE62076	6/30/2020	769.85
Patriot Pest Control	964318	7/2/2020	2,000.00
United Site Services	114-10548501	6/25/2020	172.80
United Site Services	114-10548503	6/25/2020	172.80
Utility Notification Center of Colorado	220061049	6/30/2020	-
WIPFLI LLP	1645408	7/8/2020	4,950.00
			121,238.99
Grand Total			\$ 125,757.49

Google Maps



Imagery ©2020 Maxar Technologies, U.S. Geological Survey, Map data ©2020 50 ft

Google Maps



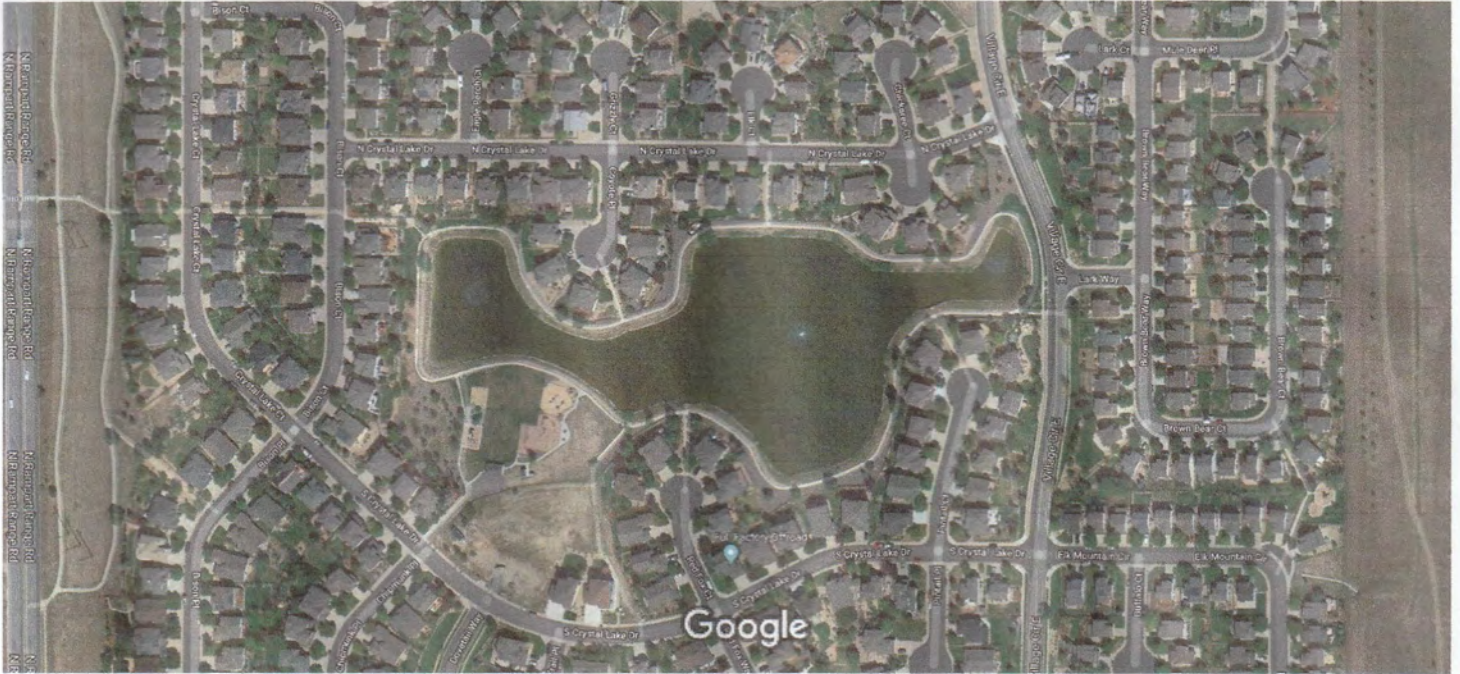
Imagery ©2020 Maxar Technologies, U.S. Geological Survey, Map data ©2020 50 ft



Imagery ©2020 Maxar Technologies, U.S. Geological Survey, Map data ©2020 50 ft



Imagery ©2020 Maxar Technologies, U.S. Geological Survey, Map data ©2020 50 ft



Imagery ©2020 Maxar Technologies, U.S. Geological Survey, USDA Farm Service Agency, Map data ©2020 100 ft

Roxborough Village Metropolitan District

Siloam Stone Slab Boulder Water Feature Applications in Colorado





The above pictures are a very similar application that uses the Siloam Stone 8-14" Slab Rock from the Canyon City Quarry. It is clearly a good material to use in water features. It could also be used in the next phase for the spillway run down. This is from Steamboat Springs.



The above picture of Siloam Slab Rock is in Colorado Springs. This detention pond uses the rock around the perimeter to enhance the experience. This is not all that different than what RVMD is trying to accomplish.

There are many, many other photos to browse through on their website <https://www.siloamstone.com/>

**Roxborough Village
Shade Structure Summary**

Product	Description	Size	Product Cost	Roofing	Shipping Cost	Additional Costs	Website
Icon - Straight Cantilevered Arbor	Straight cantilevered arbor with straight steel slats. A lot of the Icon products seem to be oriented to commercial projects and public projects such as parks or plazas.	12' x 18'	\$44,881	Included	\$ 2,415	Quote includes optional installation and footing cost for \$26,000, which seems very high	https://www.iconselters.com/
Big Kahuna Pergola	DIY pergola kits mostly targeting residential applications.	12' x 18'	\$ 6,605	Included	Free	Additional costs not included: Installation Footings	https://pergoladepot.com/big-kahuna-all-sizes/
Forever Wood - Thick Timber Toledo Wood Pavillions	Pavilion with a tall, high pitch expansive ceiling built with only huge timbers.	12' x 18'	\$25,170	Not Included	Free	Additional costs not included: Roof Installation Footings	https://www.foreverredwood.com/the-thick-timber-toledo-wood-pavillions.html
Forever Wood - Arched Thick Timber Pavilion	The Arched Thick Timber Pavilion was designed for the fat timber enthusiast. It is so over built that you can add lightweight tiles as the final roofing skin if you would like.	12' x 18'	\$14,190	Not Included	Free	Additional costs not included: Roof Installation Footings	https://www.foreverredwood.com/arched-thick-timber-pavilion.html
Whole Trees	This is another product that was researched based on the reference to the Denver Zoo shade structure. It's a customized product so it was difficult to get a quote or estimate.						https://wholetrees.com/

RECREATION PLUS, LTD.



Proposal/Order Form



c/o Recreation Plus, Ltd.
 15209 West Ellsworth Drive, Golden, CO 80401
 Telephone: (303) 278-1455 / (888) 278-1455 Fax: (303) 278-1606

Submitted To: Todd Wenskoski Date: JULY 28, 2020
Livable Citiestudio Job Name: ROXBOROUGH VILLAGE
SPILLWAY PHASE 1
 Phone: 303-800-2201x1003, 720-699-9178, 303-506-0139 Job Location: LITTLETON, CO 80121
 Email: eqiberson@dhmdesign.com

Item	Part #	Qty	Description	Unit Price	Total Price
1	AS12.5X18-10K-P0	1	12'5"X18'10" custom steel cantilever arbo	\$	\$ 44,881.00

****STANDARD COLORS FOR ALL PRODUCTS****

Subtotal: \$ 44,881.00
 Freight: \$ 2,415.00
 Total: \$ 47,296.00

****ADD TO TOTAL**** Optional Installation: \$ 20,698.00
****ADD TO TOTAL**** Optional footings (8) installation \$ 6,000.00

Note Extra Cost (PER SHELTER):

Colorado Sealed Drawings, Colorado Engineered Calculations, and Colorado Engineered Footings: \$ 250.00

Installation does NOT include: footings, concrete pad, or engineering of either. Cost of permits are not included.

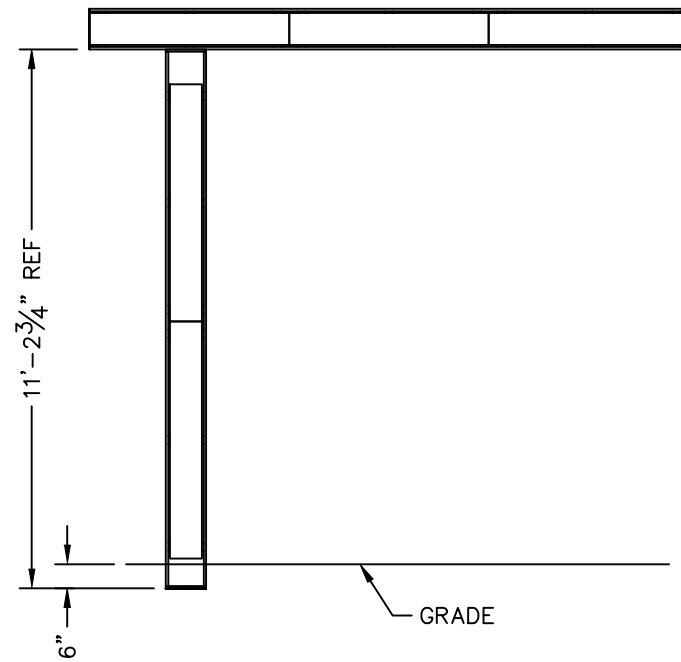
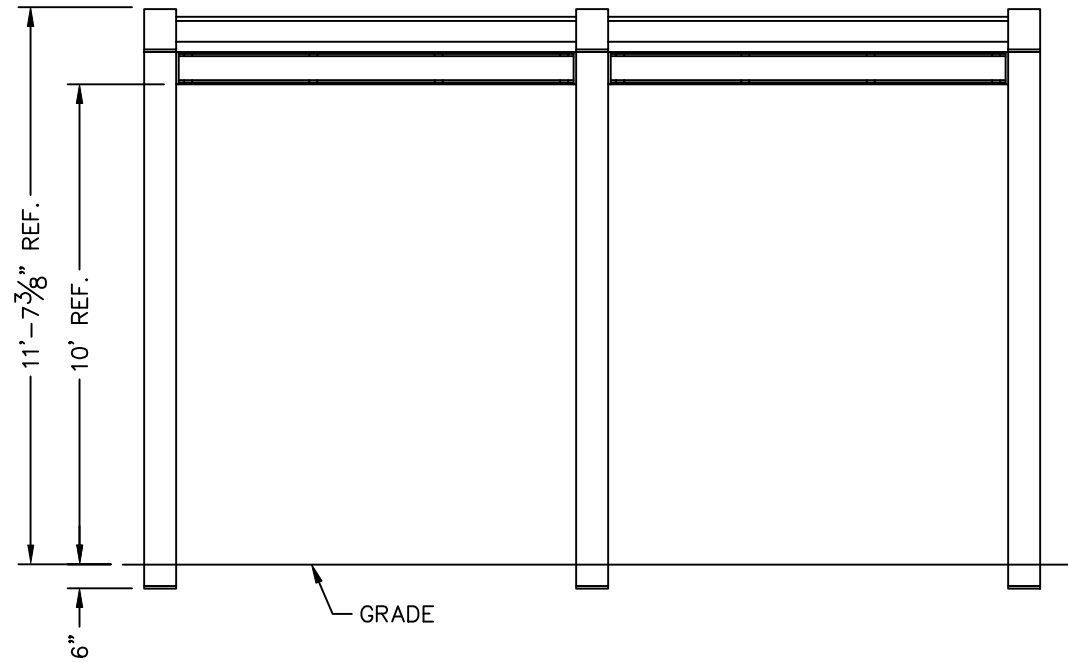
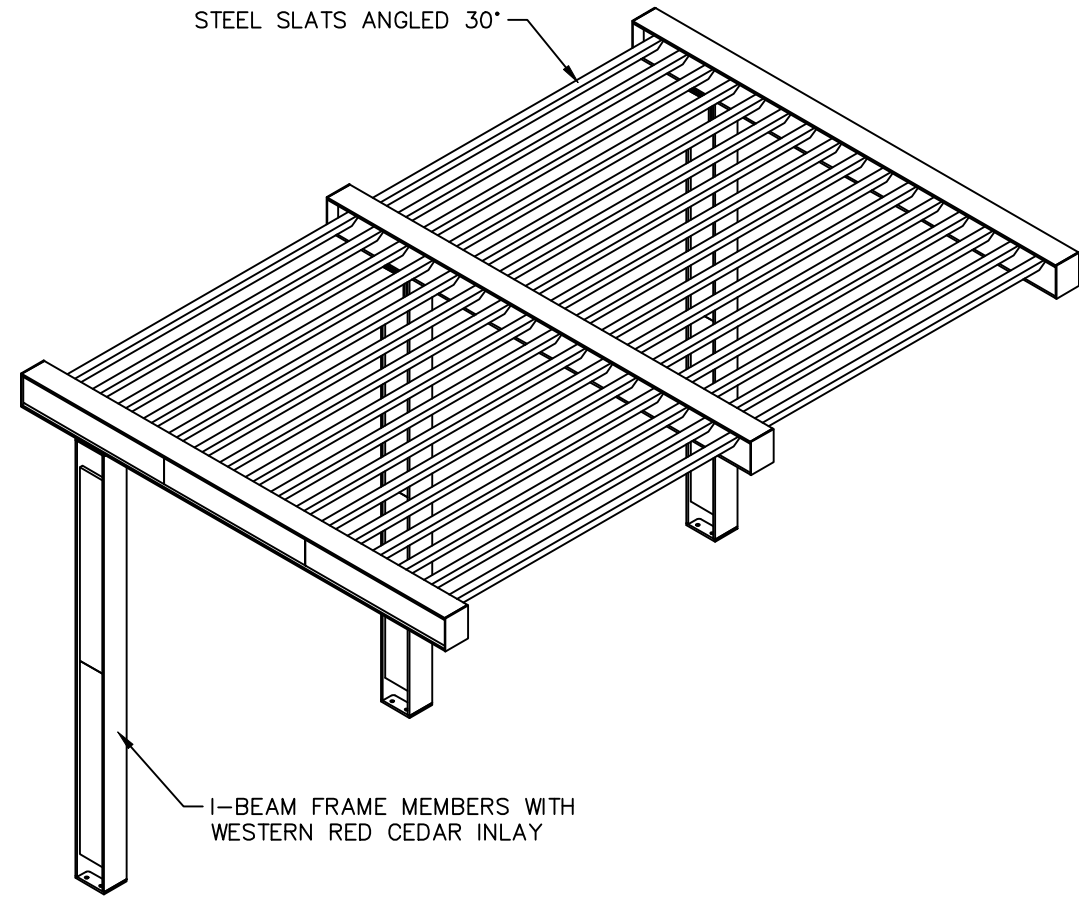
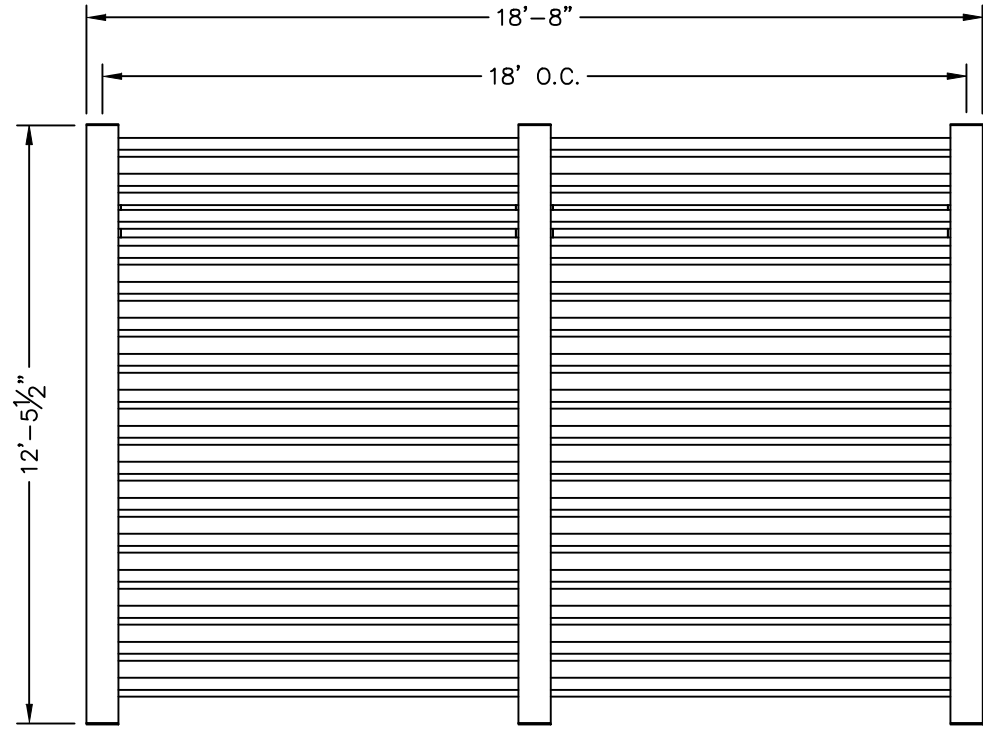
PRICING SUBJECT TO CHANGE DEPENDING ON FINAL PROJECT SPECIFICATIONS

PRICES:	ARE GOOD FOR THIRTY (30) DAYS.
TAXES:	NOT INCLUDED.
DELIVERY:	8 TO 10 WEEKS ARO, DEPOSIT AND APPROVAL DRAWINGS.
DEPOSIT:	50% DOWN WHEN PLACING ORDER.
TERMS:	BALANCE DUE BEFORE SHIPMENT. GOVERNMENT MUNICIPALITIES HAVE NET 30 TERMS.
INSTALLATION:	INSTALLATION IS OPTIONAL AND IS AN ADD-ON TO THE TOTAL PRICE.
ROCK/ UTILITIES CLAUSE	CUSTOMER AGREES TO RECREATION PLUS, LTD'S ROCK AND UTILITIES CLAUSE.

ACCEPTANCE OF PROPOSAL: The above prices specifications and conditions are satisfactory and are hereby accepted. Any alterations or deviations from the above will be executed only upon written orders and will become an extra charge over and above the estimate. Please be assured your order will receive our prompt attention.

Signature: _____
 Title: _____
 Date of Acceptance: _____

All Paperwork (PO's, Deposit Checks, Etc.) Should Be Made Out to Icon Shelter Systems Inc. and Sent to Recreation Plus, Ltd., 15209 W. Ellsworth Dr., Golden CO 80401



ICON
 Shelter Systems Inc
 DISTINCTIVE STEEL SHELTERS
 WWW.ICONSHELTERS.COM
 COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
 1455 LINCOLN AVE.
 HOLLAND MI, 49423
 616.396.0919
 800.748.0985
 616.396.0944 FX

Elevation

DRAWN BY:

ACP

DATE:

7/23/2020

PRELIMINARY ID:

65027

REVISION:

A

BUILDING TYPE:

AS12.5X18-10K

PROJECT NAME:

PRELIMINARY: NOT FOR CONSTRUCTION

SHEET

1.0

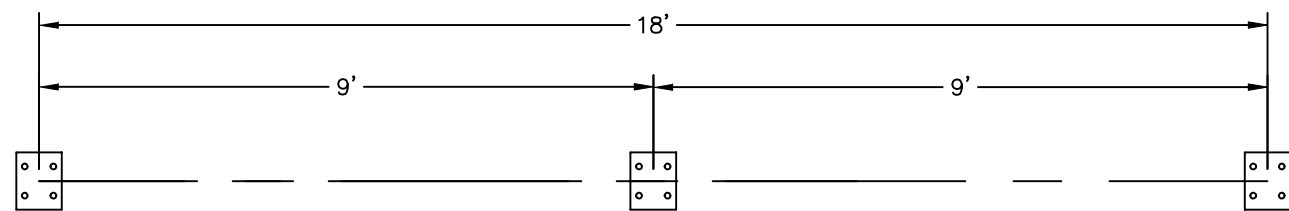
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PRELIMINARY: NOT FOR CONSTRUCTION

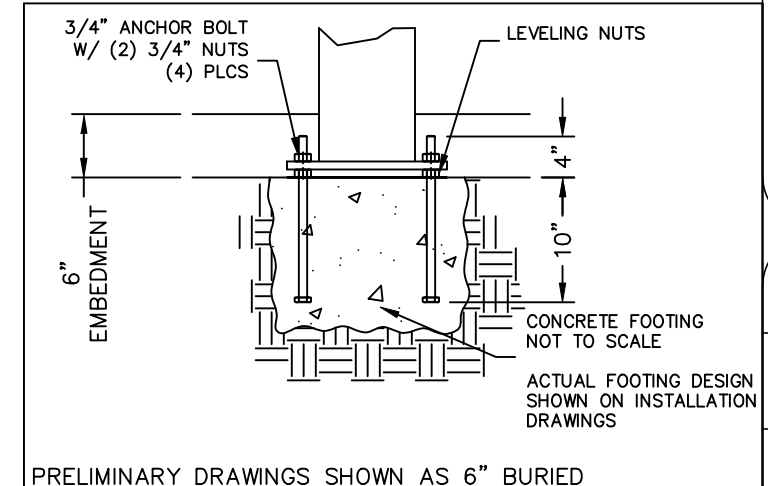
ICON
Shelter Systems Inc
 DISTINCTIVE STEEL SHELTERS
 WWW.ICONSHELTERS.COM
 COPYRIGHT 2004, ICON SHELTER SYSTEMS, INC.
 1455 LINCOLN AVE.
 HOLLAND MI, 49423
 616.396.0919
 800.748.0985
 616.396.0944 FX

ALL STRUCTURAL COMPONENTS WILL BE:
 TUBE: ASTM A500 GRADE B
 PLATE: ASTM A36
 BOLTS: ASTM A325
 NUTS: ASTM A563
 WELDING: GMAW

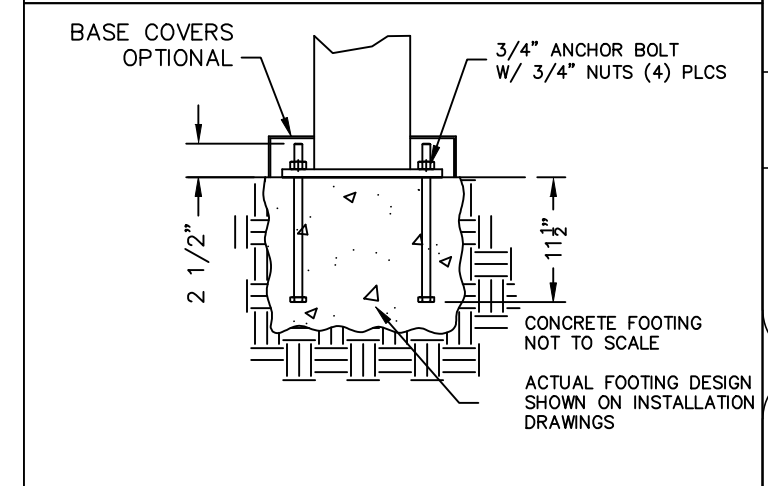
NOTE:
 COLUMN SIZE: W10X45 I-BEAM



Anchor Bolt Layout



PRELIMINARY DRAWINGS SHOWN AS 6" BURIED
 STANDARD BASE CONNECTION
 COLUMN TYPE: A (6" BURIED)



OPTIONAL BASE CONNECTION
 COLUMN TYPE: B (SURFACE MOUNT W/ COVERS)

DRAWN BY:	ACP
DATE:	7/23/2020
PRELIMINARY ID:	65027
REVISION:	A
BUILDING TYPE:	AS12.5X18-10K
PROJECT NAME:	

SHEET
 2.0


DWG:AS\12.5X18\K-P0-20-90-150\Drawings\Preliminary\AS12.5x18-10K-P0-20-90-150~65027.DWG

Cart

Home » Cart

Shopping Cart

Proceed to Checkout

	Product Name	Unit Price	Qty	Subtotal
	 <p>Big Kahuna 12x18 Pergola Kit</p> <p>Wood Type (\$1,840.00): Rough Sawn Cedar (additional cost)</p> <p>Freestanding or Attached (\$300.00): Freestanding Rough Sawn Cedar</p> <p>Posts (\$225.00): 4 10' posts (for freestanding pergola) on slab or footer + mounting hardware +\$225</p> <p>End Shape: End shape E (None/Square)</p> <p>Add Post Base Trim (\$150.00): Yes</p>	\$6,605.00	<input type="button" value="-"/> <input type="text" value="1"/> <input type="button" value="+"/>	\$6,605.00
<div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"> DISCOUNT CODE ▼ </div>				
<input type="button" value="Continue Shopping"/>			<input type="button" value="Update Cart"/>	

Select a country / region...

State / County

City

Postcode / ZIP

CART TOTALS ▲

Subtotal	\$6,605.00
Tax	\$0.00
Grand Total	\$6,605.00

Proceed to checkout ▲







The Thick Timber Toledo Wood Pavilions (Options: 26' L x 20' W, Douglas-fir, 6-Post Anchor Kit for Gale-Wind, Electrical Wiring Trim for 3 Posts, 10 x 10 Supports and Posts, 8 x 8 Rafters, Transparent Premium Sealant), Photo Courtesy of M. Turner of Thaxton, MS.

Pause

PHOTO: 16 OF 24

Enlarge This Photo



Configure For Pricing

Price as Configured: \$24,270.00

Fascia Board for Gutters: Help me Choose ?

No, Thank you [SELECTED]

Post Height:

9 ft - (MOST POPULAR) [SELECTED]

Electrical Wiring Trim Kit: Help me Choose ?

No, Thank you [SELECTED]

Post Decorative Trim: Help me Choose ?

No post decorative trim (standard post) - (MOST POPULAR) [SELECTED]

Post Anchoring: Help me Choose ?

No thanks, I don't need anchors or trim boxes [SELECTED]

Ceiling Fan Base: Help me Choose ?

No Ceiling Fan Base - (MOST POPULAR) [SELECTED]

Heavy Duty Curtain Rods & Stainless Steel Hangers: Help me Choose ?

No Curtain Rods - (MOST POPULAR) [SELECTED]

Sealant: Help me Choose ?

Transparent Premium Sealant - (RECOMMENDED) [SELECTED]

Comments / Dimensions - If you want a custom size different from your selection (Length, Width or Height) please let us know:

Comments / Dimensions - If you want a custom size different from your selection (Length, Width or Height) please let us know:

Qty: 1

« Main Options

ADD TO CART



FREE SHIPPING IN



• **Questions? - [Download](#) the ebook "Everything you Wanted to Know about Pergolas & Pavilions" for answers to frequently asked questions or please [Contact Our Pavilion Sales](#)! (Includes: Wind, Electrical Wiring Trim for 3 Posts, 10 x 10 Supports and Posts, 8 x 8 Rafters, Transparent Premium Sealant). Photo Also Shows a patio table set with 4 chairs and how one can help from design to putting it together at your house!**

[THE THICK TIMBER TOLEDO WOOD PAVILIONS SPECIFICATIONS \(PDF DOWNLOAD\)](#)

[GENERAL INFORMATION ABOUT PERMITTING FOR PERGOLAS AND PAVILIONS](#)

Specifications has the following sections, any of which you may go to directly by clicking on it:

[DIMENSIONS, DRAWINGS, DESIGN & SPECIFICATIONS](#)

[PRIVACY PANEL STYLES](#)

[PAVILION HEIGHT \(POST SIZE\)](#)

[ELECTRICAL WIRING TRIM KIT](#)

[PAVILION POST ANCHORING](#)

[POST DECORATIVE TRIM](#)

[CEILING FAN BASE](#)

[CURTAIN RODS](#)



The Thick Timber Toledo Wood Pavilions (Options: 26' L x 20' W, Douglas-fir, 6-Post Anchor Kit for Gale-Wind, Electrical Wiring Trim for 3 Posts, 10 x 10 Supports and Posts, 8 x 8 Rafters, Transparent Premium Sealant). Photo Also Shows a Patio Table Set with Side Benches and End Chairs. Photo Courtesy of M. Turner of Thaxton, MS.



The Thick Timber Toledo Wood Pavilions (Options: 26' L x 20' W, Douglas fir, 6 Post Anchor Kit for Gale Wind, Electrical Wiring Trim for 3 Posts, 10 x 10 Supports and Posts, 8 x 8 Rafters, Transparent Premium Sealant). Photo Courtesy of M. Turner of Thaxton, MS.

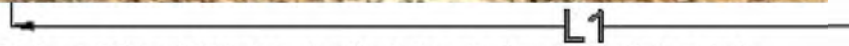
Top View



The Thick Timber Toledo Wood Pavilions (Options: 26' L x 20' W, Douglas-fir, 6-Post Anchor Kit for Gale-Wind, Electrical Wiring Trim for 3 Posts, 10 x 10 Supports and Posts, 8 x 8 Rafters, Transparent Premium Sealant). Photo Also Shows a Patio Table Set with Side Benches and End Chairs. Photo Courtesy of M. Turner of Thaxton, MS.

W1

Front View



The Thick Timber Toledo Wood Pavilions (Options: 26' L x 20' W, Douglas-fir, 6-Post Anchor Kit for Gale-Wind, Electrical Wiring Trim for 3 Posts, 10 x 10 Supports and Posts, 8 x 8 Rafters, Transparent Premium Sealant). Photo Also Shows a Patio Table Set with Side Benches and End Chairs. Photo Courtesy of M. Turner of Thaxton, MS.

Ladder View



The Thick Timber Toledo Wood Pavilion (Options: 50' L x 24' W, Douglas-fir, 8-Post Anchor Kit for Gale-Wind, with Curtain Rods, Electrical Wiring Trim for 4 Posts, 10 x 10 Supports and Posts, 2 x 8 Rafters, Transparent Premium Sealant). Custom 4' Overhang on All Sides (Standard Overhang is 1'). Photo Courtesy of R. Barry of Hayden, Colorado.



Isometric View

Toledo Dimensions for Posts 6in x 6in

H (ft.)	H1 (ft.)	W (ft.)	W1 (ft.)	L (ft.)	L1 (ft.)	Post Qty.
9	12.57	12	9.54	12	9.54	4
9	13.07	14	11.54	14	11.54	4
9	13.32	15	12.54	15	12.54	4
9	14.29	16	13.54	16	13.54	4
9.5	13.07	12	9.54	18	15.54	4
9.5	13.57	14	11.54	20	17.54	4
9.5	13.82	15	12.54	22	19.77	6



The Thick Timber Toledo Wood Pavilion (Options: 50' L x 24' W, Douglas-fir, 8-Post Anchor Kit for Gale-Wind, with Curtain Rods, Electrical Wiring Trim for 4 Posts, 10 x 10 Supports and Posts, 8 x 8 Rafters, Transparent Premium Sealant). Custom 4' Overhang on All Sides (Standard Overhang is 1'). Photo Courtesy of R. Barry of Hayden, Colorado.

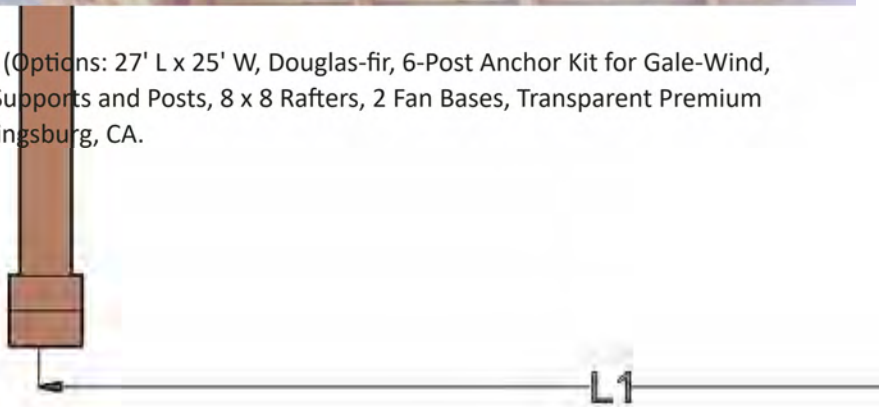


The Thick Timber Toledo Wood Pavilion (Options: 50' L x 24' W, Douglas fir, 8-Post Anchor Kit for Gale Wind, with Curtain Rods, Electrical Wiring Trim for 4 Posts, 10 x 10 Supports and Posts, 8 x 8 Rafters, Transparent Premium Sealant), Custom 4' Overhang on All Sides (Standard Overhang is 1'). Photo Courtesy of R. Barry of Hayden, Colorado.

Top View



The Thick Timber Toledo Wood Pavilion (Options: 27' L x 25' W, Douglas-fir, 6-Post Anchor Kit for Gale-Wind, Electrical Wiring Trim for 2 Posts, 8 x 8 Supports and Posts, 8 x 8 Rafters, 2 Fan Bases, Transparent Premium Sealant). Photo Courtesy of T. Lane of Kingsburg, CA.



Ladder View



The Thick Timber Toledo Wood Pavilions. Construction image highlights massive timbers and steel plating used and shows Pavilion partially completed and prior to sanding or sealing. Yes, we build them upside down - much easier this way!



Isometric View

Toledo Dimensions for Posts 8in x 8in

H (ft.)	H1 (ft.)	W (ft.)	W1 (ft.)	L (ft.)	L1 (ft.)	Post Qty.
9	12.57	12	9.4	12	9.4	4
9	13.07	14	11.4	14	11.4	4
9	13.32	15	12.4	15	12.4	4
9	14.29	16	13.4	16	13.4	4
9	14.9	18	15.4	18	15.4	4
9	15.91	20	17.4	20	17.4	4
9	17.26	22	19.4	22	9.7	6

SHOPPING CART



Arched Thick Timber Pavilion - 18 ft x 12 ft x No Wall Privacy Panels - (MOST POPULAR)

x 1

\$14,190.00



- Wood Grade & Warranty:** Mosaic Eco-Wood (10-yr Warranty) - All Reclaimed Wood
- Fascia Board for Gutters:** No, Thank you
- Post Height:** 9 ft - (MOST POPULAR)
- Electrical Wiring Trim Kit:** No, Thank you
- Post Decorative Trim:** No post decorative trim (standard post) - (MOST POPULAR)
- Post Anchoring:** 4-post anchor kit for gale-wind
- Ceiling Fan Base:** No Ceiling Fan Base - (MOST POPULAR)
- Heavy Duty Curtain Rods & Stainless Steel Hangars:** No Curtain Rods - (MOST POPULAR)
- Sealant:** Transparent Premium Sealant - (RECOMMENDED)

Sub-Total	\$14,190.00
Total	\$14,190.00
Today's Deposit (1/3 of Order Total)	\$4,730.00

[Edit Cart](#)

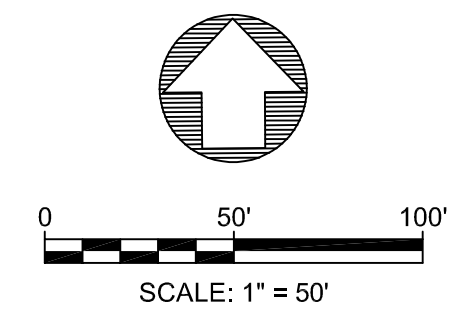
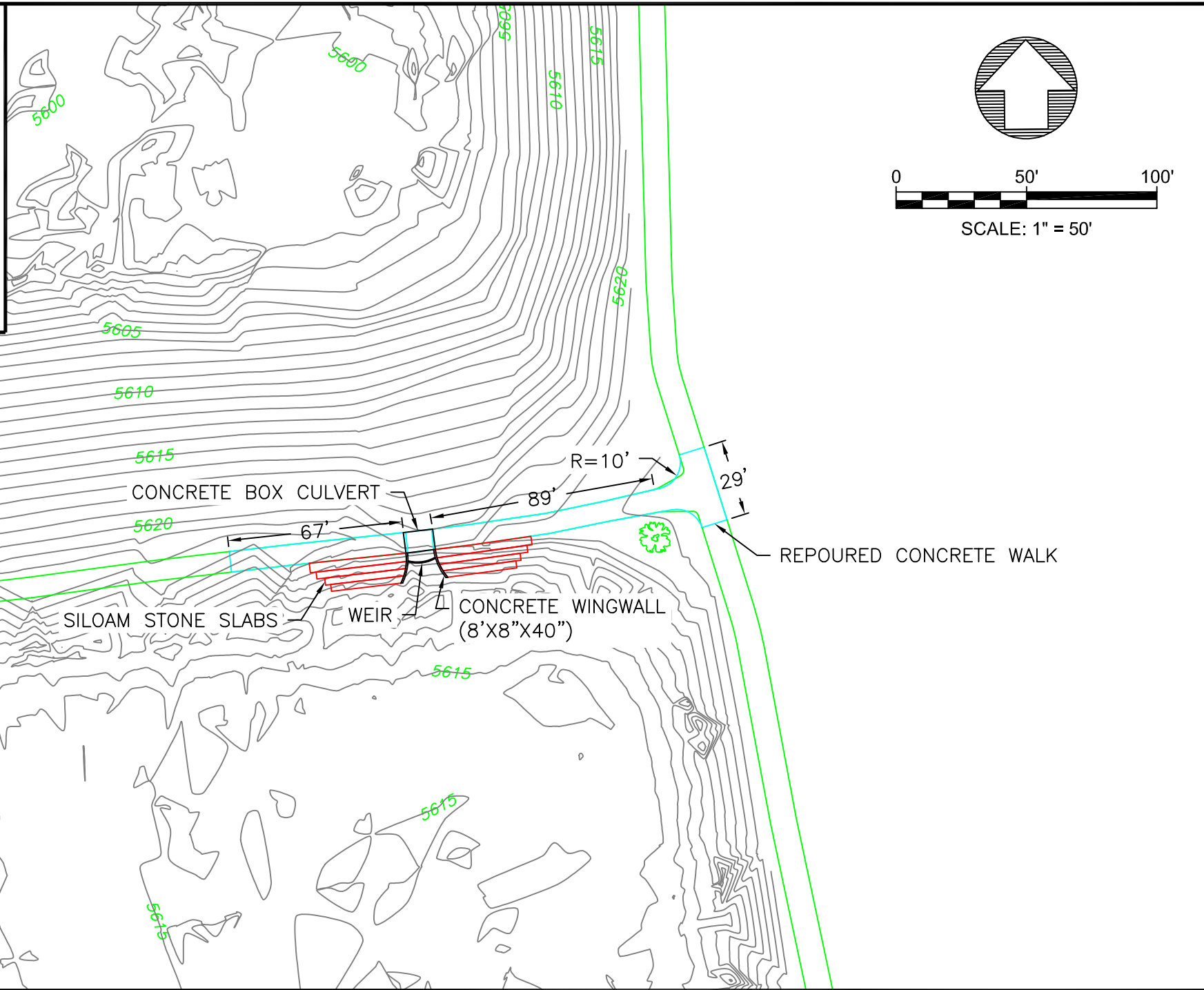
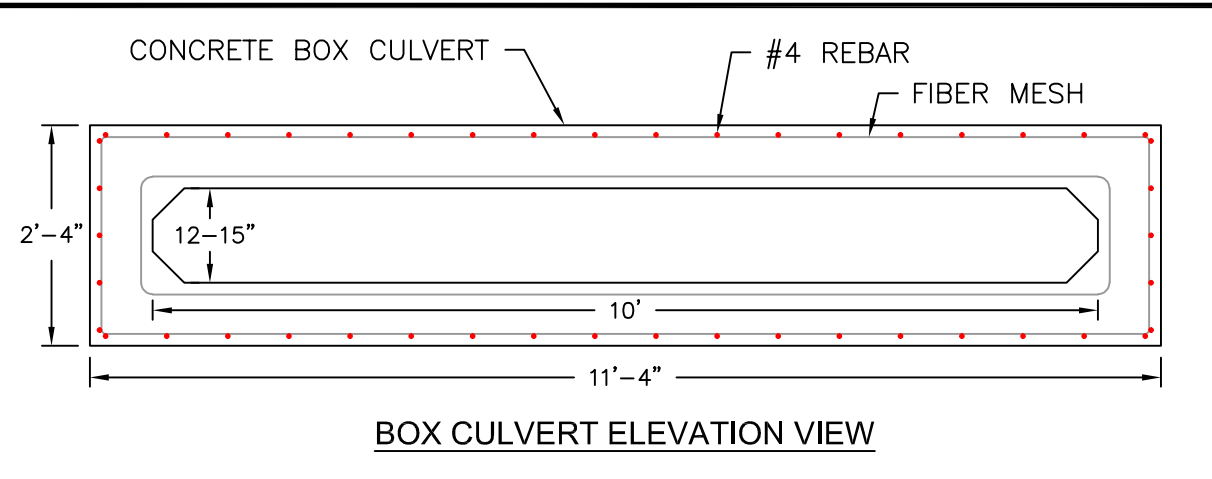
[Proceed To Checkout](#)



Wooden Pavilion (Options: 24' L x 22' Arc W, California Redwood, No Electrical Wiring Trim, 4 Post Anchor Kit for Concrete, No Ceiling Fan Base, No Privacy Panel, No Curtain Rods, 10ft H, Transparent Pr

Below is the Cost Breakdown Summary of the different components of the full project including the Concrete structural renovation, the stone slab boulder seating area, the picnic area, and the shade structure.

Also below is a revised Sketch showing the profile of the slabs, the weir, and concrete sidewalk. We have shown the high water elevation on it. This is what you would see for a short while in the spring. The water retracts from that mark all summer long. We have superimposed a typical summer elevation in there. Drought years like this year would be even lower, likely twice as low as this shows. As you can see in early spring, the water covers most of the slabs. In the summer, most of them are exposed. This year, a drought year, all of the slabs would likely be exposed.

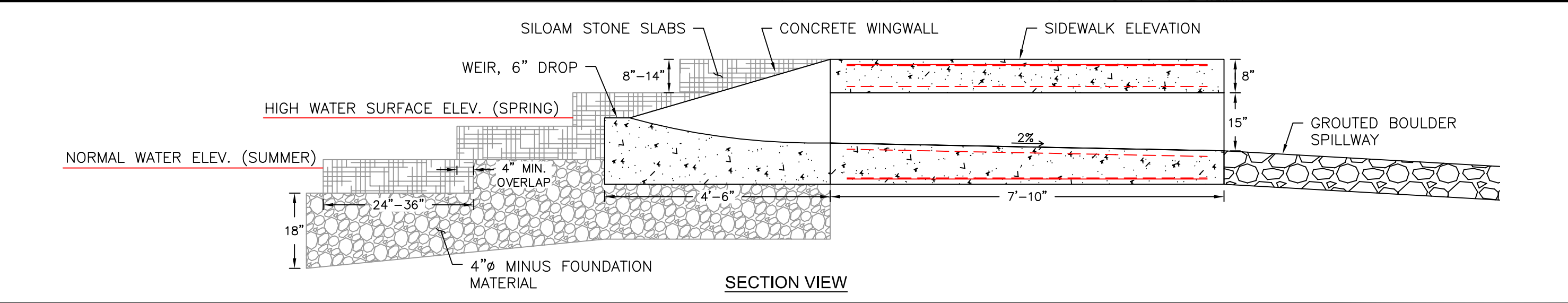


Mulhern
MRE, Inc.
Managing Resources thru Engineering

AUGUST 2020

SPILLWAY
IMPROVEMENTS
EXHIBIT

ROXBOROUGH VILLAGE METROPOLITAN DISTRICT



Roxborough Village Metropolitan District
Spillway Repairs and New Seating/Picnic Area
Rough Order of Magnitude Cost Estimate
18-Aug-20

ITEM DESCRIPTION	UNIT	UNIT COST	QTY.	Option A Icon Shade Structure	Option B Big Kahuna Pergola	Option C Forever Wood - Thick Timber	Option D Forever Wood - Arched Timber	Notes/Comments
Spillway Structure/Box Culvert								
Demolition - Grouted Riprap and Metal Gate	LS	\$ 5,000.00	1	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00	Numbers in Red are most recent MMRE Estimates
Concrete path - 6" Removal and Replacement	SF	\$ 15.00	1600	\$ 24,000.00	\$ 24,000.00	\$ 24,000.00	\$ 24,000.00	
Imported impervious Fill for box culvert subgrade	LS	\$ 1,000.00	1	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	
CIP Box Culvert and Weir Structure	LS	\$ 16,000.00	1	\$ 16,000.00	\$ 16,000.00	\$ 16,000.00	\$ 16,000.00	
Siloam Stone Step Slab Boulders - This type of rock is significantly cheaper and good for a step down area like we are working with.	EA	\$ 225.00	65	\$ 14,625.00	\$ 14,625.00	\$ 14,625.00	\$ 14,625.00	Original Expensive Seat Block Boulders @ \$700 each. Step Slab Boulders are estimated more like \$225 each including transportation
Foundation 4 inch minus rock	Ton	\$ 35.00	125	\$ 4,375.00	\$ 4,375.00	\$ 4,375.00	\$ 4,375.00	
Foundation Rock Installation	CY	\$ 60.00	75	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00	\$ 4,500.00	
Rock Instalation Equipment including crew time	Hr	\$ 450.00	40	\$ 18,000.00	\$ 18,000.00	\$ 18,000.00	\$ 18,000.00	
Foundation and Wing Wall Excavation	LS	\$ 3,500.00	1	\$ 3,500.00	\$ 3,500.00	\$ 3,500.00	\$ 3,500.00	
Dewatering Pump for one time drain 4 feet vert.	Ea	\$ 3,000.00	1	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	
Subtotal				\$ 94,000.00	\$ 94,000.00	\$ 94,000.00	\$ 94,000.00	
Picnic and Seating Area								
Demolition - Seating Area	SF	\$ 8.00	525	\$ 4,200.00	\$ 4,200.00	\$ 4,200.00	\$ 4,200.00	
Relocate dog waste station & trash can	EA	\$ 500.00	1	\$ 500.00	\$ 500.00	\$ 500.00	\$ 500.00	
Crusher Fines	SF	\$ 3.50	525	\$ 1,837.50	\$ 1,837.50	\$ 1,837.50	\$ 1,837.50	
Edger	LF	\$ 5.00	105	\$ 525.00	\$ 525.00	\$ 525.00	\$ 525.00	
Deck	LS	\$ 15,000.00	1	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	
Tree	EA	\$ 1,500.00	1	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	\$ 1,500.00	
Picnic Table	EA	\$ 3,000.00	1	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	
Shade Structure - Product (12'x18')	EA			\$ 44,881.00	\$ 6,605.00	\$ 25,170.00	\$ 14,190.00	
Shade Structure - Roof	EA			N/A	N/A	\$ 2,500.00	\$ 2,500.00	
Shade Structure - Installation	EA			\$ 26,000.00	\$ 3,000.00	\$ 3,000.00	\$ 3,000.00	
Subtotal				\$ 97,443.50	\$ 36,167.50	\$ 57,232.50	\$ 46,252.50	Detailed summary of each product provided in separate package. Detailed summary of each product provided in separate package Options 2,3, and 4, in red, are only estimates for installation
MOBILIZATION		10%		\$ 19,144.35	\$ 13,016.75	\$ 15,123.25	\$ 14,025.25	
CONTINGENCY		10%		\$ 19,144.35	\$ 13,016.75	\$ 15,123.25	\$ 14,025.25	
TOTAL				\$ 229,732.20	\$ 156,201.00	\$ 181,479.00	\$ 168,303.00	

MEMORANDUM

AUGUST 17, 2020

TO: Anna Jones

FR: Ben Kelly

RE: High-level summary of community and board feedback to date

ROXBOROUGH VILLAGE MASTER PLAN SURVEYS

- May 2019 survey (n=265): Family pool, indoor community center and recreation facility are identified as the top-ranked new amenities.
- September 2019 survey (n=590): Community pool identified by a majority as an amenity of interest, and the highest-rated option among all improvements for parks, open space and community facilities.
- November 2019 Community meeting (n=203): More than half strongly agree or agree with preliminary recommendations for a community center and pool Scenarios. Also, the scenario for a pool combined with a full community center received the greatest support.

FEASIBILITY STUDY SURVEY (JUNE-JULY 2020)

- 90 percent of Roxborough Village respondents indicate they are likely to join/use a community pool/recreation facility
 - 34 percent of non-Roxborough Village respondents in the survey indicate they are also likely to join/use a community pool/recreation facility – expanding the market area
- Exercise and physical wellness are the top reasons to join. Space for community connections and social gathering is also a high priority.
- Key factors include convenience, affordability

RVMD BOARD INTERVIEWS (JULY 2020) KEY THEMES

- Fiscally sustainable, responsible and viable for the long-run
- Data-driven decision-making
- The right decisions on the front-end that pay long-term dividends
- Take advantage of the amazing natural assets: topography, views, central location, connectivity
- Effectively communicate the trade-offs and the give-and-take in designing, programming and financing the facility



Rectangular Rapid Flashing Beacons (RRFBs)

Increase visibility and improve driver yield rates at crosswalks with high-intensity flashing LED light bars.

Supplementing crosswalk signs with an RRFB has been proven to increase safety and yield rates. This rapid flashing beacon is an improvement on the traditional crosswalk warning light because it uses high-intensity LEDs, which are exceptionally noticeable for drivers both during the day and at night. Their amber color and quick flash pattern (wig-wag + simultaneous or WW+S) make them easily visible when headlight glare, wet roads, or other situations create difficult nighttime lighting conditions. **Studies have shown that the RRFBs can improve driver yield rates up to 96% and reduce crashes by 47%.**

Memorandum

To: Roxborough Village Metropolitan District Board of Directors
From: Katie James
Re: District owned email addresses
Date: 8/17/20

The District can legally purchase a domain and email addresses for Board members, but there are some important considerations as to whether it is a prudent or necessary action. I will note that any Board member at any time could set up a separate and free email (example johndoervmd@gmail.com) to keep District emails separated from the Board member's other email messages (personal, work, etc.).

If the intention is to separate and organize emails for Board members, then the free option versus a District expense may work well. I am attaching the District Email Retention Policy for reference on my following comments. The District's email communications are subject to the Colorado Open Records Act (CORA) and as such, the writings must be retained in accordance with the policy. As you will see, the first step in deciding about retention is that the sender or recipient (in this memo, the Board member) makes the initial decision if the email qualifies for a public record. If the Director cannot decide, the District Manager is consulted. If the District has its own email system, then arguably all of them will be subject to CORA having been sent/received through the District owned system, even when the email may not otherwise be a public record.

If the intention for District specific email addresses is to increase the Board members interfacing with the public, then this intention needs to be tempered with the reminder about public record keeping. Also, increased direct interaction between Directors and the public may have the consequences of: 1) inadvertently representing a Board position or policy to the public that may only be the position of one Director; 2) leaving the District Manager out of the loop of activity, for clearer record keeping and to follow through on Board direction/action. I do not advise increased email interaction with the public. Members of public will always contact individual Board members between meetings with concerns or requests, but it is critical that all District business be conducted in properly noticed public meetings. Using the District Manager as the primary point of public contact helps keep the public meeting protocol intact.

The following is the pricing information for District emails per CLA's research, Wix provides a mailbox for emails to be created with the website. Email addresses can be customized and will be ____@roxboroughmetrodistrict.org. Emails include G-Suite Business Applications. The cost is \$6.50 per mailbox per month. For five Board members, this amounts to \$32.50 per month or \$390 per year.

**RESOLUTION
OF THE BOARD OF DIRECTORS OF
ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
DOUGLAS COUNTY, COLORADO**

A RESOLUTION APPROVING AN ELECTRONIC MAIL RETENTION POLICY

The Board of Directors of the Roxborough Village Metropolitan District, a quasi-municipal corporation and political subdivision of the State of Colorado (the "District"), has determined that it is in the best interest of District residents and property owners to adopt a Resolution Approving an Electronic Mail Retention Policy.

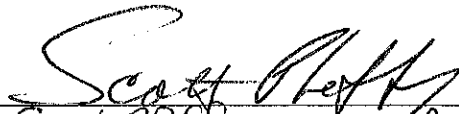
NOW, THEREFORE, be it resolved by the Board of Directors of Roxborough Village Metropolitan District, Douglas County, Colorado, that:

Section 1. The Electronic Mail Retention Policy, in the form attached hereto as Exhibit 1, (the "Policy") is approved. The officers of the District are authorized to execute the Policy, and the officers of and consultants to the District are authorized to take any actions that are necessary or appropriate for the District's performance of the terms of the Policy.

APPROVED AND ADOPTED this 27th day of November, 2012, by a vote of 4 for and 0 against.

ROXBOROUGH VILLAGE METROPOLITAN
DISTRICT, a quasi-municipal corporation and
political subdivision of the State of Colorado

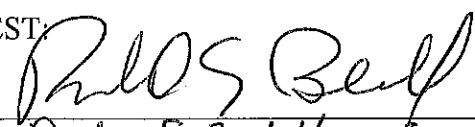
By: _____



Scott Pfeiffer, Vice President

ATTEST:

By: _____



Paula S. Bendall, Secretary

EXHIBIT 1

Roxborough Village Metropolitan District
Electronic Mail Retention Policy

**ROXBOROUGH VILLAGE METROPOLITAN DISTRICT
ELECTRONIC MAIL RETENTION POLICY
Adopted November 27, 2012**

The following is the Electronic Mail Retention Policy (the "Policy") for the Roxborough Village Metropolitan District (the "District") and shall remain in effect until amended or repealed by the District's Board of Directors (the "Board"). "Electronic Mail," also referred to herein as "E-mail," is defined below.

I. Purposes of the District's Electronic Mail (E-mail) Retention Policy

This E-mail Retention Policy of the Roxborough Village Metropolitan District shall be applied and interpreted with the following purposes in mind:

- A. To adopt an E-mail Retention Policy that sets a schedule for the retention and elimination of E-mails based on applicable legal requirements and District necessity.
- B. To provide for the orderly and consistent maintenance of E-mail data by District personnel.
- C. To reduce costs with regard to data storage, data review, and data organization.
- D. To prevent unnecessary interference with the regular discharge of the duties of the District and its manager in compliance with the Colorado Open Records Act, section 24-72-201 to 24-72-309, C.R.S. ("CORA").
- E. To protect the integrity of District communications.

II. Definitions

- A. "District business" includes any and all business related to the District, including, but not limited to, District organization, operation, maintenance, construction, data sharing, and communications.
- B. "District personnel" means all of the District's directors, officers, managers, employees, and any other individuals hired by the District. It shall not mean attorneys of the District or contractors of the District, except the District's general manager.
- C. "E-mail Correspondence" is defined by CORA in C.R.S. 24-72-202(1)(c), in its current form or as subsequently amended. The definition as of the date of the adoption of this Resolution is as follows: "Correspondence" means a communication that is sent to or received by one or more specifically identified individuals and that is or can be produced in written form, including, without limitation: (c) Communications sent via electronic mail."

D. "Electronic mail" is defined by CORA in C.R.S. 24-72-202 (1.2), in its current form or as subsequently amended. The definition as of the date of the adoption of this Resolution is as follows: "Electronic mail" means an electronic message that is transmitted between two or more computers or electronic terminals, whether or not the message is converted to hard copy format after receipt and whether or not the message is viewed upon transmission or stored for later retrieval. Electronic mail includes electronic messages that are transmitted through a local, regional, or global computer network.

E. "Public Record(s)" is defined by CORA in C.R.S. 24-72-202(6), in its current form or as subsequently amended. The definition, in part, as of the date of the adoption of this Resolution is as follows: "Public Records" means and includes all writings made, maintained, or kept by...a political subdivision of the state," and "includes the correspondence of elected officials, except to the extent that such correspondence is: (A) Work product; (B) Without a demonstrable connection to the exercise of functions required or authorized by law or administrative rule and does not involve the receipt or expenditure of public funds; (C) A communication from a constituent to an elected official that clearly implies by its nature or content that the constituent expects that it is confidential or that is communicated for the purpose of requesting that the elected official render assistance or information relating to a personal and private matter that is not publicly known affecting the constituent or a communication from the elected official in response to such a communication from a constituent; or (D) Subject to nondisclosure as required in Section 24-72-204(1), C.R.S."

F. "Record" for purposes of retention is defined by Section C.R.S. 24-80-101(1) governing State Archives and Public Records, and includes an E-mail message that has been segregated and stored in the District's computer-maintained records system as "evidence of the organization, functions, policies, decisions, procedures, operations, or other activities of the government, or because of the value of the official governmental data contained therein," making it subject to retention according to the Records Retention Schedule adopted by the District Board.

III. E-mail Retention Schedule

A. Applicability

E-mails of a solely personal nature shall not be regulated by the Policy.

B. Determination as to whether an E-mail is a Public Record

The sender or recipient of an E-mail shall make the initial determination as to whether such E-mail is a Public Record. If a recipient is unable to make the determination as to whether an E-mail is a Public Record, the District Manager shall make that determination. If the District Manager is unable to make the determination as to whether an E-mail is a Public Record, he shall consult with District's Legal Counsel.

C. Retention Timeline for E-mails determined to Public Records

An E-mail that is determined to be a Public Record: (1) shall be moved out of the sender's or recipient's Inbox or Outbox and segregated and stored in the District's computer-maintained records system within 89 days of sending or receipt to protect it from deletion; (2) is considered to be a Record subject to the District's Records Retention Schedule; and (3) shall be retained according to the Records Retention Schedule adopted by the District Board, which requires that retention of computer-maintained records follow the retention schedule for the specific type of document based on the content and nature of the E-mail.

D. Retention Timeline for E-mails to be determined not to be Public Records

If an E-mail is determined not to be a Public Record, but the District Manager has received advice from District's Legal Counsel that such E-mail may be relevant to a litigation matter or an administrative proceeding, it shall be moved to the District's computer-maintained records system and retained until the District Manager is advised by District's Legal Counsel that it is no longer needed.

E-mails received by District personnel which are determined not to be Public Records or the subject of advice from District's Legal Counsel shall be kept for ninety (90) calendar days from the day they are received in the District personnel's E-mail Inbox. The 90 days shall expire at 11:59 p.m. on the ninetieth day from the date an E-mail arrives in the District personnel's Inbox. Upon the expiration of the 90 days, such E-mail shall be deleted from the Inbox, and further action shall be taken to remove the deleted E-mail from the "Deleted" folder in the E-mail program and from any backup systems.

E-mails sent by District personnel which are determined not to be Public Records or the subject of advice from District's Legal Counsel shall be kept for ninety (90) calendar days from the day they are sent by District personnel. The 90 days shall expire at 11:59 p.m. on the ninetieth day from the date an E-mail is sent from the District personnel's E-mail account. Upon the expiration of the 90 days, such E-mail shall be deleted from the E-mail Outbox, and further action shall be taken to remove the deleted E-mail from the "Deleted" folder in the E-mail program and from any backup systems.

E-mails saved in District personnel's "Draft" E-mail folder may be deleted at any time, but shall be deleted at the expiration of ninety (90) days from the date the draft was last accessed by District personnel. District personnel are encouraged to routinely access their "Draft" folder and delete all draft E-mails that will likely not be completed or sent within a reasonable amount of time.

E. Execution of the Policy

It shall be the responsibility of the District Manager to ensure that the Policy is followed by all District personnel. The District Manager is authorized to take the following actions to ensure compliance with the Policy: (i) provide oral and/or written reminders of the Policy; (ii)

organize and conduct educational seminars concerning the Policy; (iii) conduct personal follow-up meetings with District personnel regarding retention and elimination of E-mails; and (iv) any other reasonable actions as determined by the District Manager.

IV. Miscellaneous Provisions

A. All District personnel shall be provided with a copy of the Policy upon assuming a position with the District.

B. Amendments to the Policy shall be in the form of a resolution approved by the Board of Directors.

C. Upon Board approval of an amendment, the District Manager shall incorporate the amendment into this Policy.

D. The District Manager is authorized to make reasonable interpretations of this Policy.

Adopted and approved this 27th day of November, 2012 by a vote of 4 for, 0 against, and 0 abstaining.

ROXBOROUGH VILLAGE METROPOLITAN
DISTRICT

By: Scott Pfeffer
Scott Pfeffer, Vice President

ATTEST:

Ronald E. Bondall
Ronald E. Bondall, Secretary

IRRIGATION SCHEDULE				
SYMBOL	MANUFACTURER	MODEL NO.	DESCRIPTION	DETAIL NO.
	HUNTER	PRO5-06-CV-PR540-R WITH PRO-SPRAY NOZZLE	POPOP SPRAY HEAD	13
	HUNTER	PRO5-06-CV-PR540-R WITH PRO-SPRAY SST, CORNER NOZZLE	POPOP SPRAY HEAD	13
	HUNTER	I-20-06-SS-R WITH # STANDARD NOZZLE (BLUE)	GEAR DRIVEN ROTOR	14
	HUNTER	I-20-06-SS-R WITH #MFR25 MATCHED PRECIPITATION NOZZLE (RED)	GEAR DRIVEN ROTOR	14
	HUNTER	I-20-06-SS-R WITH #MFR30 MATCHED PRECIPITATION NOZZLE (GREEN)	GEAR DRIVEN ROTOR	14
	HUNTER	I-20-06-SS-R WITH #MFR35 MATCHED PRECIPITATION NOZZLE (TAN)	GEAR DRIVEN ROTOR	14
	HUNTER	I-40-06-SS-R WITH # NOZZLE	GEAR DRIVEN ROTOR	14
	HUNTER	I-40-06-SS-R WITH # NOZZLE	GEAR DRIVEN ROTOR	14
	HUNTER	I-40-06-SS-ON-R WITH # DUAL OPPOSING NOZZLE	GEAR DRIVEN ROTOR	14
	HUNTER	IGV-F5-R-AS-ADJ VV VALVE DECODER	ELECTRIC CONTROL VALVE	7 & 16
	HUNTER	HQ-44-LRC-R	QUICK COUPLING VALVE	10
	BASELINE	BL-3200F VV COMMUNICATION MODULE BL-CLOUD-LTE-VZ-F	ELECTRIC CONTROLLER	1 & 2
	BASELINE	BL-SUBSTN-XSS-R12 VV COMMUNICATION MODULE BL-CLOUD-LTE-VZ-X	SUB STATION CONTROLLER	19
	BASELINE	BL-5406-KIT	PRESSURE SENSOR BICODER KIT	N/5
	HUNTER	WRF-CLK VV BL-5402 EVENT DECODER	WEATHER SENSOR DEVICE	3
	BASELINE	BL-5915B SOIL MOISTURE SENSOR	MOISTURE SENSOR	20-23
N/S	OLDCASTLE / CARSON	REFER TO SPECIFICATIONS AND DETAILS	VALVE BOXES	VARIOUS
N/S	MACDONALD	AY 1/4 TURN - 1"	MANUAL DRAIN VALVE	6
		LINE SIZE - 2 1/2" AND SMALLER	GATE VALVE	8
	LEEMCO	LINE SIZE - 3" AND LARGER	GATE VALVE VV RESTRAINTS	9
	CLAY VAL	636-03 A.P.S.Y VV BL-5201MV DECODER	MASTER CONTROL VALVE	5
	BADGER	M2-080-R1-A-E-VN-S-XX-6F	MAG METER	N/S
	FLOMEC	146090-01 (6") FLOW METER VV BL-5308 FLOW BICODER	FLOW SENSOR	4
N/S	LEEMCO		MECHANICAL JOINT RESTRAINTS	18
		CLASS 200 BE - 2 1/2" & SMALLER	PVC MAINLINE	11
		CLASS 200 RT - 3" & LARGER	PVC MAINLINE	11
		CLASS 200 BE	PVC LATERAL	11
		CLASS 160	PVC SLEEVING	12
	HUNTER	ICZ-101-LF-40-R VV VALVE DECODER	DRIP VALVE ASSEMBLY	15 & 16
N/S	BASELINE	BL-5201	VALVE DECODER	16
	PAIGE	P1072D	2-WIRE DECODER CABLE	4,5,7,15,16
	BASELINE	BL-LA01	SURGE PROTECTION	17
			EXISTING CONTROLLER	
			EXISTING FLOW SENSOR	
			EXISTING GATE VALVE	
			EXISTING METER	
			EXISTING QUICK COUPLER	
			EXISTING PUMP	
			EXISTING MAINLINE	
			CONTROLLER & STATION NO.	
			CONTROL VALVE SIZE	

IRRIGATION CONSTRUCTION NOTES

- DRAWINGS AND BASE INFORMATION - ALL BASE AND PLANTING INFORMATION HAVE BEEN PROVIDED BY FABRE ENGINEERING. THE CONTRACTOR IS RESPONSIBLE TO NOTIFY HYDROSYSTEMS*KDI OF ANY DISCREPANCIES BETWEEN THE UTILITY OR PLANTING PLANS AND THE IRRIGATION PLAN. IF CONTRACTOR FAILS TO NOTIFY HYDROSYSTEMS*KDI AND MAKES CHANGES TO THE IRRIGATION SYSTEM DESIGN, HE ASSUMES ALL COSTS AND LIABILITIES ASSOCIATED WITH THOSE FIELD CHANGES. REFER TO SPECIFICATIONS FOR ADDITIONAL PROJECT REQUIREMENTS. CONTACT IRRIGATION CONSULTANT FOR CURRENT SPECIFICATIONS IF NOT PROVIDED.
- SYSTEM PRESSURE - HYDROSYSTEMS*KDI HAS CONTACTED MULHERN MRE, INC. AND THEY HAVE BEEN TOLD THAT THE STATIC WATER PRESSURE IN THIS AREA SHOULD BE 85 PSI. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRESSURE PRIOR TO COMMENCING ANY CONSTRUCTION AND NOTIFY HYDROSYSTEMS*KDI OF ANY VARIANCE FROM THE STATED PRESSURE IMMEDIATELY. WRITTEN DOCUMENTATION OF PRESSURE TEST AND RESULTS SHALL BE PROVIDED TO HYDROSYSTEMS*KDI AT CONSTRUCTION ONSET. IF CONTRACTOR FAILS TO FIELD VERIFY PRESSURE AND/OR NOTIFY HYDROSYSTEMS*KDI OR ANY VARIATIONS FROM THIS PRESSURE, THEN HE ASSUMES ALL CONSTRUCTION AND ENGINEERING COSTS ASSOCIATED WITH SYSTEM MODIFICATIONS REQUIRED TO ACCOMMODATE ACTUAL SITE PRESSURE. REFER TO POINT OF CONNECTION NOTES FOR SPECIFIC PRESSURE REQUIRED AT THAT LOCATION. THIS SYSTEM HAS BEEN DESIGNED FOR A REQUIRED STATIC PRESSURE OF 85 PSI MINIMUM.
- NON-POTABLE WATER SOURCE - THIS SITE HAS BEEN DESIGNED TO BE IRRIGATED WITH NON-POTABLE WATER. ALL CAPS ON HEADS, VALVE HANDLES, VALVE BOX LIDS SHALL BE CONSTRUCTED OF PURPLE MATERIALS AND LABELED TO INDICATE NON-POTABLE WATER SUPPLY. ALL MAINLINE AND LATERAL PIPING SHALL BE PURPLE IF REQUIRED BY THE SUPPLYING UTILITY. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING SIGNS NOTIFYING THE PUBLIC OF THE USE OF NON-POTABLE WATER ON THIS SITE. SEE STATE REGULATIONS FOR CONTENT AND SIZE OF NOTIFICATION SIGNS. INSTALLATION CREWS ARE TO BE INFORMED OF THE USE OF NON-POTABLE WATER.
- IRRIGATION SYSTEM OPERATION INTENT - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO IRRIGATE THE ESTABLISHED LANDSCAPE WITHIN A THREE NIGHT PER WEEK, TWELVE HOUR PER NIGHT WATERING WINDOW. ESTABLISHMENT WATERING WILL REQUIRE UP TO TWICE AS MUCH IRRIGATION FOR A FOUR TO SIX WEEK PERIOD. THE DESIGN IS BASED ON THE FOLLOWING PROJECTED WEEKLY APPLICATION RATES AFTER ESTABLISHMENT. THESE FIGURES ARE BASED ON A 50-YEAR AVERAGE WEATHER DATA AND WILL NEED TO BE ADJUSTED DUE TO SEASONAL CHANGES AND WEATHER CONDITIONS ABOVE AND BELOW THE AVERAGE VALUES UTILIZED.

2.22" PER WEEK PEAK SEASON

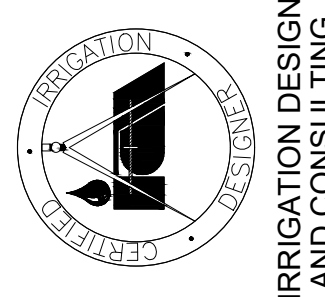
- EQUIPMENT INSTALLATION - IT IS THE INTENT OF THIS DESIGN THAT ALL IRRIGATION EQUIPMENT BE INSTALLED WITHIN PROPERTY LIMITS AND WITHIN LANDSCAPED AREAS. ANY EQUIPMENT OTHER THAN VALVE BOXES OR SLEEVING THAT CONTAINS PIPE OR WIRES SHOWN OUTSIDE OF THESE LIMITS IS SHOWN IN THAT LOCATION FOR GRAPHICAL CLARITY ONLY. ALL VALVE BOXES SHALL BE INSTALLED A MINIMUM OF 2'-0" FROM EDGE OF ANY PAVED SURFACES UNLESS SPECIFICALLY INDICATED ON PLANS. BOXES INSTALLED IN OPEN TURF AREAS SHALL BE KEPT TO EDGES AND STAKED FOR REVIEW IF ALONG HIGH TRAFFIC AREAS. ALL VALVE BOXES SHALL BE PLACED A MINIMUM OF 3'-0" FROM THE CENTERLINE OF ANY DRAINAGE SWALE. ALL VALVE BOXES WITHIN PAVEMENT SHALL BE TIER 15 RATED BOXES FOR HEAVY DUTY NON-DELIBERATE TRAFFIC. BOX LID COLOR SHALL MATCH ADJACENT MATERIALS, I.E. GREEN IN TURF, TAN IN WOOD MULCH, GRAY IN STONE MULCH, PURPLE FOR RECLAIMED WATER SYSTEMS (IF REQUIRED). REFER TO LANDSCAPE PLANS FOR MATERIAL COLORS AND TYPES. ALL BOXES SHALL BE INSTALLED TO BE FLUSH WITH GRADE AND IN AN ORDERLY MANNER. WHERE MORTAR PAVING LIDS ARE INSTALLED ABOVE BOXES, IRRIGATION BOX WITH LID SHALL BE LOWERED TO ACCOMMODATE PAVING LID. REFER TO LANDSCAPE FOR ADDITIONAL INFORMATION, TO BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.
- PIPING INSTALLATION - IRRIGATION PIPING SHALL MAINTAIN A MINIMUM DISTANCE FROM BUILDING FOUNDATIONS OF 5 FEET OR AS DESCRIBED IN SOILS REPORT, WHICHEVER IS GREATER. NO SPRAY IRRIGATION SHALL OCCUR WITHIN 10 FEET OF THE FOUNDATION. NO DRIP IRRIGATION SHALL OCCUR WITHIN 5 FEET OF THE FOUNDATION UNLESS SOIL MOISTURE SENSORS ARE INSTALLED ON VALVES SERVICING THESE AREAS. ALL IRRIGATION PIPING AND EMISSION DEVICES LOCATED ON TOP OF OR WITHIN BUILDING STRUCTURE SHALL CONFORM TO WATERPROOFING CONSULTANT REQUIREMENTS. PIPE ROUTING MAY BE SHOWN WITHIN THESE DISTANCES FOR GRAPHICAL CLARITY ONLY.
- MANUAL DRAIN VALVES - CONTRACTOR TO INSTALL ONE MANUAL DRAIN VALVE ON PRESSURE SUPPLY LINE DIRECTLY DOWNSTREAM OF BACKFLOW PREVENTER AND AT ALL LOW POINTS AND DEAD ENDS OF PRESSURE SUPPLY PIPING TO ENSURE COMPLETE DRAINAGE OF SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THESE LOCATIONS IN-FIELD AND INSTALLATION LOCATIONS SHALL BE NOTED ON AS-BUILTS.
- POP-UP SPRAY NOZZLES - CONTRACTOR TO INSTALL PLASTIC NOZZLES ON ALL POP-UP SPRAY HEADS. INSTALL 17 SERIES NOZZLES ON ALL HEADS SPACED AT 16' TO 15'. INSTALL 15 SERIES NOZZLES ON ALL HEADS SPACED AT 12' TO 14'. INSTALL 12 SERIES NOZZLES ON ALL HEADS SPACED 10' TO 11'. INSTALL 10 SERIES NOZZLES ON ALL HEADS SPACED AT 8' TO 9'. INSTALL 8 SERIES NOZZLES ON ALL HEADS SPACED AT 6' TO 7'. INSTALL 5 NOZZLES ON ALL HEADS SPACED AT 5'. INSTALL SIDE STRIP NOZZLES ON ALL HEADS WITH AN 'S' DESIGNATION AND RIGHT AND LEFT CORNER STRIP NOZZLES ON ALL HEADS WITH AN 'L' OR 'R' DESIGNATION. VARIABLE ARC NOZZLES SHOULD BE UTILIZED ADJACENT TO CURVILINEAR SHRUB BEDS OR FOR ANY ANGLES THAT ARE NOT A STANDARD NOZZLE ANGLE.
- UNLABELED PIPING - ALL UNLABELED LATERAL PIPING SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED.
- SLEEVING - ALL SLEEVING UNDER PAVED SURFACES SHOWN ON PLANS IS BY CONTRACTOR UNLESS OTHERWISE NOTED. SLEEVING SHALL BE INSTALLED IN THE SIZES AND QUANTITIES SHOWN ON PLANS OR BASED ON THE SCHEDULE BELOW. WHERE SLEEVES ARE SHOWN, BUT NOT LABELED, FOLLOW THE SCHEDULE BELOW. ALL MAINLINE, CONTROL WIRES AND DRIP LINES UNDER PAVED SURFACES ARE TO BE INSTALLED IN SLEEVING. ALL MAINLINE SLEEVE LOCATIONS TO INCLUDE A SEPARATE WIRE SLEEVE.

SLEEVED PIPE SIZE/WIRE QUANTITY	REQUIRED SLEEVE SIZE & (QUANTITY)
3/4" - 1 1/4" PIPING	2" PVC (1)
1 1/2" - 2" PIPING	4" PVC (1)
2 1/2" - 3" PIPING	6" PVC (1)
4" PIPING	8" PVC (1)
6" PIPING	10" PVC (1)
COMMUNICATION CABLE	2" PVC (1)

- 2-WIRE SYSTEM NOTES - CONTRACTOR SHALL INSTALL ALL TWO-WIRE COMPONENTS PER MANUFACTURER'S RECOMMENDATIONS AND STANDARDS.
 - CONTRACTOR SHALL USE ONLY MANUFACTURED 2-WIRE DECODER CABLE (SEE SCHEDULE FOR SPECIFIC 2-WIRE CABLE).
 - ONLY USE SINGLE STATION DECODERS (SEE SCHEDULE FOR SPECIFIC MODEL).
 - ONLY USE SENSOR DECODER FOR FLOW SENSOR (SEE SCHEDULE FOR SPECIFIC MODEL) IF INDICATED ON PLANS.
 - LOOP 5' OF 2-WIRE DECODER CABLE INTO ALL VALVE BOXES (WITH DECODERS AND SPLICES) FOR MAINTENANCE.
 - LOOP 2' OF 2-WIRE DECODER CABLE AS AN EXPANSION LOOP AT ALL CHANGES OF DIRECTION.
 - USE ONLY 3M DBR-6 WATERPROOF CONNECTORS ON ALL WIRE SPLICES AND ALL WIRE SPLICES ARE TO BE MADE WITHIN A VALVE BOX WITH CONTROL VALVES OR A SEPARATE 10" ROUND VALVE BOX FOR WIRE SPLICES.
 - INSTALL SURGE PROTECTOR RODS OR PLATES 8 LF. FROM VALVES, DECODERS, AND COMMUNICATION WIRE.
 - GROUND ALL DECODERS AND DECODER WIRE A MINIMUM OF EVERY 500' OF WIRE AND AT ALL ENDS OF 2-WIRE DECODER CABLE RUN.
 - LOOP EXTRA 10' OF 2-WIRE DECODER CABLE INTO A VALVE BOX AT PHASING LINES FOR FUTURE CONNECTION (IF INDICATED ON PLANS).
- ADJUSTMENT - CONTRACTOR SHALL FINE TUNE/ADJUST THE IRRIGATION SYSTEM TO REDUCE/AVOID OVERSPRAY ONTO HARD SURFACES BY ADJUSTING NOZZLE DIRECTION AND NOZZLE RADIUS.
- PLANS AND SPECIFICATIONS - CONTRACTOR RESPONSIBLE TO ENSURE WORK CONFORMS TO PLANS AND SPECIFICATIONS. AT ONSET OF CONSTRUCTION, VERIFY PLANS ARE CURRENT; WHERE REQUIRED BY CITY OR TOWN, CONTRACTOR SHALL CONSTRUCT OFF CITY OR TOWN STAMPED PLANS. REVISIONS TO CITY OR TOWN STAMPED PLANS SHALL CONFORM TO CITY OR TOWN FIELD CHANGE PROCEDURES AND DOCUMENTATION.
- EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.
- EXISTING IRRIGATION COORDINATION - EXISTING IRRIGATION SYSTEM SHALL NOT BE TURNED OFF FOR MORE THAN 24 HOURS MAXIMUM. CONTRACTOR SHALL COORDINATE TURN OFF OF SYSTEM WITH OWNER OR MAINTENANCE STAFF 72 HOURS PRIOR TO ANY NEW CONSTRUCTION.
- SIMULTANEOUS ZONE OPERATION - THIS IRRIGATION SYSTEM HAS BEEN DESIGNED TO OPERATE MULTIPLE ZONES SIMULTANEOUSLY BASED ON INDIVIDUAL ZONE FLOW. THE DESIGN IS INTENDED TO OPERATE MULTIPLE VALVES, UP TO THE MAXIMUM FLOW IN THE POINT OF CONNECTION NOTE. REFER TO CONTROLLER SPECIFICATION FOR MAXIMUM SIMULTANEOUS VALVE COUNT.
- WATER BUDGETS AND PROJECTIONS - HYDROSYSTEMS*KDI HAS BASED THE IRRIGATION DESIGN AND THE ASSOCIATED PROJECTED WATER USE UPON SUCH FACTORS AS CITY OR TOWN TRIC IMPROVED REQUIREMENTS, PUBLIC PLANT SPECIES WATER NEEDS, SELECTED IRRIGATION METHOD EFFICIENCIES AS REPORTED BY INDEPENDENT TESTING FACILITIES, HISTORICAL WEATHER DATA FOR THE PROJECT LOCATION, AND PROPER MAINTENANCE PROCEDURES. HYDROSYSTEMS*KDI IS NOT RESPONSIBLE, AND ACCEPTS NO RESPONSIBILITY, FOR THE ACTUAL WATER USAGE VARIATION THAT IS A RESULT OF FIELD MODIFICATIONS TO THE SYSTEM NOT MATCHING CONSTRUCTION DOCUMENTS, IMPROPER MAINTENANCE, WASTE DUE TO SYSTEM DAMAGE OR VANDALISM, OR WEATHER CONDITIONS THAT DEVIATE FROM PUBLISHED 30 YEAR HISTORICAL AVERAGES.
- EXISTING IRRIGATION EQUIPMENT - CONTRACTOR SHALL RETURN EXISTING VALVES AND HEADS TO OWNER. REMOVE EXISTING MAINLINE OR ABANDON IN PLACE. REMOVE ALL EXISTING VALVE BOXES.
- MAINLINE TRENCHES - CONTRACTOR SHALL SOD ALL MAINLINE TRENCHES, VALVE BOX AREAS, AND AREAS EXCEEDING 10 SF INSIDE AND OUTSIDE OF INDICATED WORK LIMITS UTILIZING FULL WIDTH ROLLS OF SOD. NEW SOD GRADE SHALL MATCH ADJACENT, UNDISTURBED GRADE. ROLL NEW SOD AS REQUIRED TO MESH EVENLY WITH EXISTING TURF. SOD CUT FOR MAINLINE INSTALLATION MAY BE REUSED TO SOD MAINLINE TRENCHES. CONTRACTOR WILL BE REQUIRED TO REPLACE REUSED SOD PER SPECIFICATIONS FOR NEW SOD. IF SOD IS CUT AND NOT REUSED FOR A PERIOD EXCEEDING 48 HOURS, IT MAY NOT BE REUSED. NO SODDING OR SEEDING SHALL OCCUR BETWEEN OCTOBER 1 AND APRIL 15 AND SHALL NOT OCCUR WITHOUT IRRIGATION SYSTEM BEING OPERATIONAL - UNLESS OTHERWISE NOTED ON PLANS.
- LATERAL TRENCHES - LATERAL TRENCHES AND DISTURBED AREAS LESS THAN 10 S.F. INSIDE & OUTSIDE SHALL BE RESEDED WITH BLUEGRASS BLEND HAND-BROADCAST AND LIGHTLY RAKED INTO TRENCH SOIL. GRADES SHALL MATCH EXISTING, UNDISTURBED GRADES. CONTRACTOR SHALL BE RESPONSIBLE FOR SEED AND SOD ESTABLISHMENT. SOIL PREPARATION WILL NOT BE REQUIRED FOR MAINLINE AND LATERAL TRENCHES.
- EXISTING TURF - CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING TURF LOCATED INSIDE AND OUTSIDE WORK LIMITS IN A VIABLE, GREEN, HEALTHY CONDITION UNTIL FINAL ACCEPTANCE OF PROJECT. THIS SHALL INCLUDE PROVIDING TEMPORARY WATERING OF TURF AS CONDITIONS REQUIRE. DEAD TURF AREAS EXCEEDING 10 S.F. DETERMINED BY OWNER'S REPRESENTATIVE AS HAVING DIED DUE TO LACK OF INTERIM MAINTENANCE BY CONTRACTOR SHALL BE REPLACED BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. ALL MOWING OPERATIONS DURING CONSTRUCTION WILL BE PROVIDED BY OWNER.

- DIRECTORY
- IRRIGATION SCHEDULE IR-1
- IRRIGATION NOTES IR-1
- IRRIGATION PLANS IR-2 - IR-4
- IRRIGATION PUMP UPDATE IR-5
- IRRIGATION DETAILS IR-6 - IR-7

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ROXBOROUGH COMMUNITY PARK
LITTLETON, COLORADO

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SHEET DESCRIPTION:
IRRIGATION
NOTES &
SCHEDULE

IR-1

A CONTROLLER LOCATION "A"

PEDESTAL MOUNT ONE CONTROLLER (REFER TO SCHEDULE FOR MODEL & STATION COUNT), REMOTE READY, AT INDICATED LOCATION. 120 VOLT POWER IS AVAILABLE WITHIN 20 LF. OF CONTROLLER LOCATION FROM EXISTING CONTROLLER POWER SOURCE. CONNECT FLOW SENSOR AND MASTER VALVE TO ASSOCIATED CONTROLLER VIA TWO-WIRE COMMUNICATION CABLE PER MANUFACTURER'S REQUIREMENTS. RETURN EXISTING CONTROLLER TO OWNER. MOUNT ONE WEATHER SENSOR ON POLE WHERE THERE IS 20 FT. OF CLEARANCE FROM ANY OVERHANG OR OBSTRUCTING FEATURE. INSTALL WEATHER SENSOR RECEIVER IN CONTROLLER ENCLOSURE. CONNECT SENSOR RECEIVER WIRES TO IRRIGATION CONTROLLER SENSOR PORT. FINAL WEATHER SENSOR LOCATION SHALL BE APPROVED BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.

PLEASE CONTACT BRIAN YOUNG WITH DENVER BRASS & COPPER (DBC) FOR QUOTING AND SITE TESTING PURPOSES.
910-302-4431
BYOUNG@DBCIRRIGATION.COM

CONTRACTOR TO PROVIDE DBC BASELINE EXTENDED WARRANTY CERTIFICATION. DBC TO PERFORM GROUNDING OHMS TEST AT CONTROLLERS AND ALONG TWO-WIRE PATH GROUNDING RODS. CONTROLLERS MUST BE GROUND TO 10 OHMS OR LESS AND TWO-WIRE GROUNDING RODS MUST BE 25 OHMS OR LESS. ADHERE TO ALL MANUFACTURER GROUNDING AND TWO-WIRE SPECIFICATIONS. INCLUDES ALL FIELD INSPECTIONS AND SUBMISSION TO BASELINE FOR APPROVAL.

EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.

INSTALL NEW 3" MAINLINE AND CONNECT TO EXISTING 2" MAINLINE AT THIS APPROXIMATE LOCATION. INSTALL GATE VALVE AND EXTEND MAINLINE AS SHOWN.

CONTRACTOR TO INSTALL NEW DRIP VALVE AND CONNECT TO EXISTING DRIP FOR PARKING LOT ISLAND AND NORTH ENTRY.

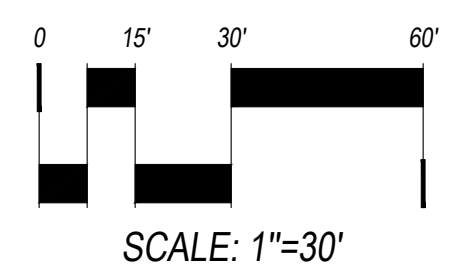
REMOVE EXISTING METER AND ISOLATION VALVE AND RETURN TO OWNER.



MATCHLINE - SEE SHEET IR-3

DIRECTORY	
IRRIGATION SCHEDULE	IR-1
IRRIGATION NOTES	IR-1
IRRIGATION PLANS	IR-2 - IR-4
IRRIGATION PUMP UPDATE	IR-5
IRRIGATION DETAILS	IR-6 - IR-7

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IRRIGATION
PLAN

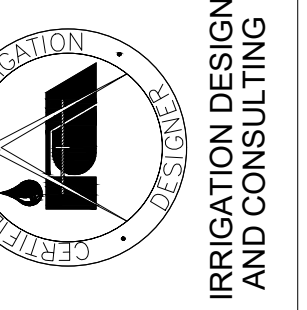
IR-2

MATCHLINE - SEE SHEET IR-2



MATCHLINE - SEE SHEET IR-4

DIRECTORY	
IRRIGATION SCHEDULE	IR-1
IRRIGATION NOTES	IR-1
IRRIGATION PLANS	IR-2 - IR-4
IRRIGATION PUMP UPDATE	IR-5
IRRIGATION DETAILS	IR-6 - IR-7



ROXBOROUGH COMMUNITY PARK
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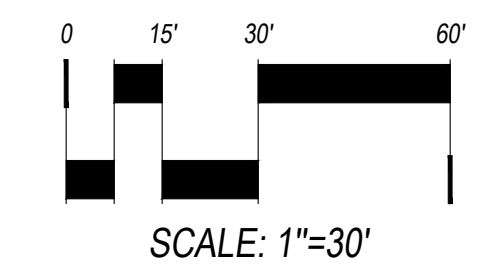
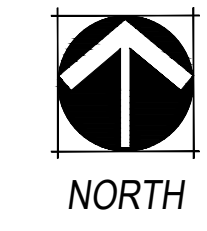
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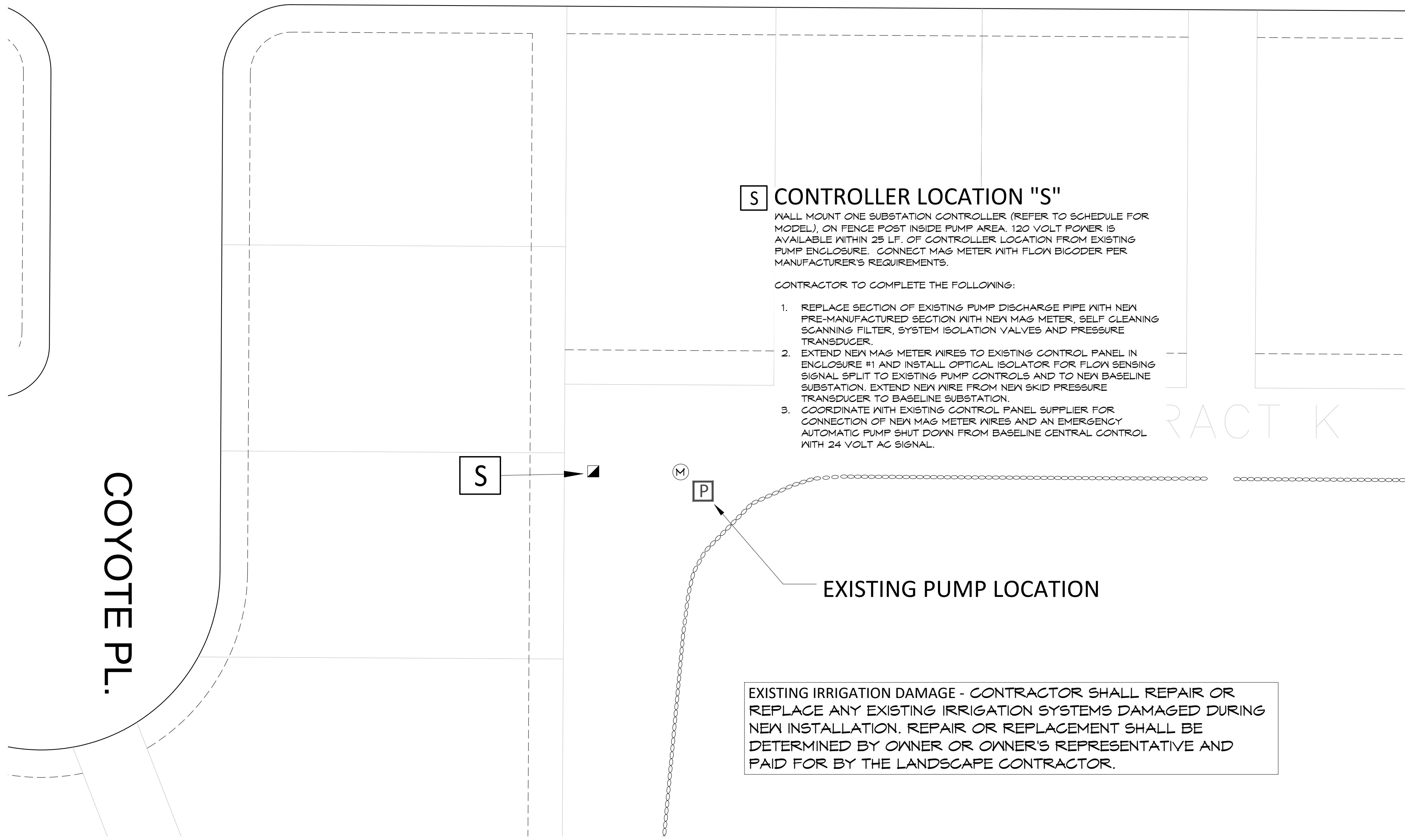
SHEET DESCRIPTION:
IRRIGATION PLAN

IR-3

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N. CRYSTAL LAKE DR.



S CONTROLLER LOCATION "S"

WALL MOUNT ONE SUBSTATION CONTROLLER (REFER TO SCHEDULE FOR MODEL), ON FENCE POST INSIDE PUMP AREA. 120 VOLT POWER IS AVAILABLE WITHIN 25 LF. OF CONTROLLER LOCATION FROM EXISTING PUMP ENCLOSURE. CONNECT MAG METER WITH FLOW BIGODER PER MANUFACTURER'S REQUIREMENTS.

CONTRACTOR TO COMPLETE THE FOLLOWING:

1. REPLACE SECTION OF EXISTING PUMP DISCHARGE PIPE WITH NEW PRE-MANUFACTURED SECTION WITH NEW MAG METER, SELF CLEANING SCANNING FILTER, SYSTEM ISOLATION VALVES AND PRESSURE TRANSDUCER.
2. EXTEND NEW MAG METER WIRES TO EXISTING CONTROL PANEL IN ENCLOSURE #1 AND INSTALL OPTICAL ISOLATOR FOR FLOW SENSING SIGNAL SPLIT TO EXISTING PUMP CONTROLS AND TO NEW BASELINE SUBSTATION. EXTEND NEW WIRE FROM NEW SKID PRESSURE TRANSDUCER TO BASELINE SUBSTATION.
3. COORDINATE WITH EXISTING CONTROL PANEL SUPPLIER FOR CONNECTION OF NEW MAG METER WIRES AND AN EMERGENCY AUTOMATIC PUMP SHUT DOWN FROM BASELINE CENTRAL CONTROL WITH 24 VOLT AC SIGNAL.

EXISTING PUMP LOCATION

EXISTING IRRIGATION DAMAGE - CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING IRRIGATION SYSTEMS DAMAGED DURING NEW INSTALLATION. REPAIR OR REPLACEMENT SHALL BE DETERMINED BY OWNER OR OWNER'S REPRESENTATIVE AND PAID FOR BY THE LANDSCAPE CONTRACTOR.



DIRECTORY	
IRRIGATION SCHEDULE	IR-1
IRRIGATION NOTES	IR-1
IRRIGATION PLANS	IR-2 - IR-4
IRRIGATION PUMP UPDATE	IR-5
IRRIGATION DETAILS	IR-6 - IR-7

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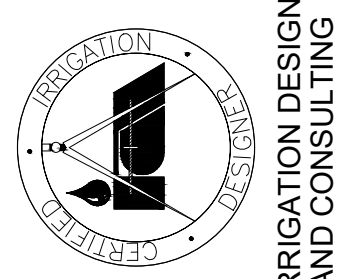
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SHEET DESCRIPTION:
IRRIGATION
PUMP
UPDATES

IR-5

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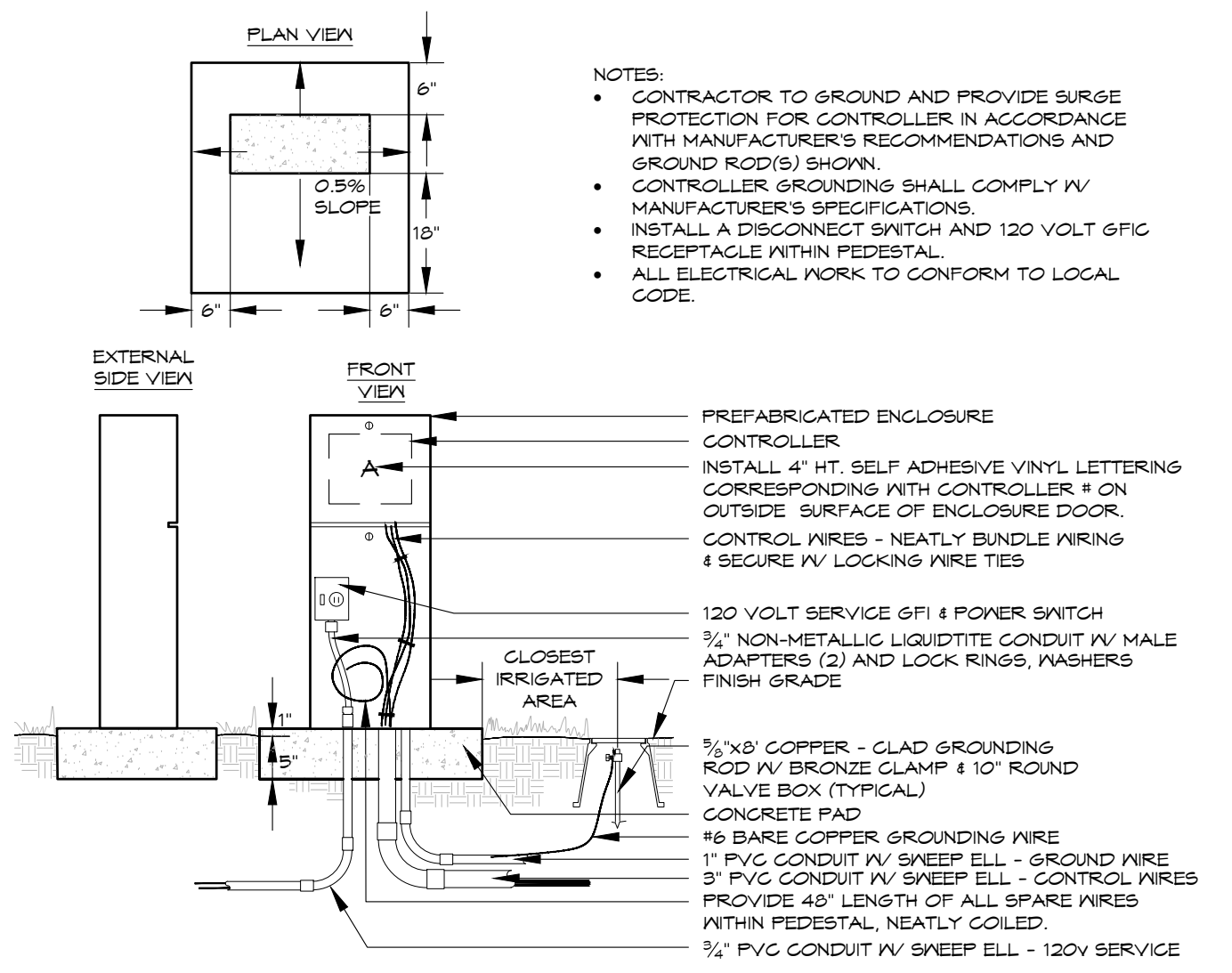
IRRIGATION DESIGN
AND CONSULTING



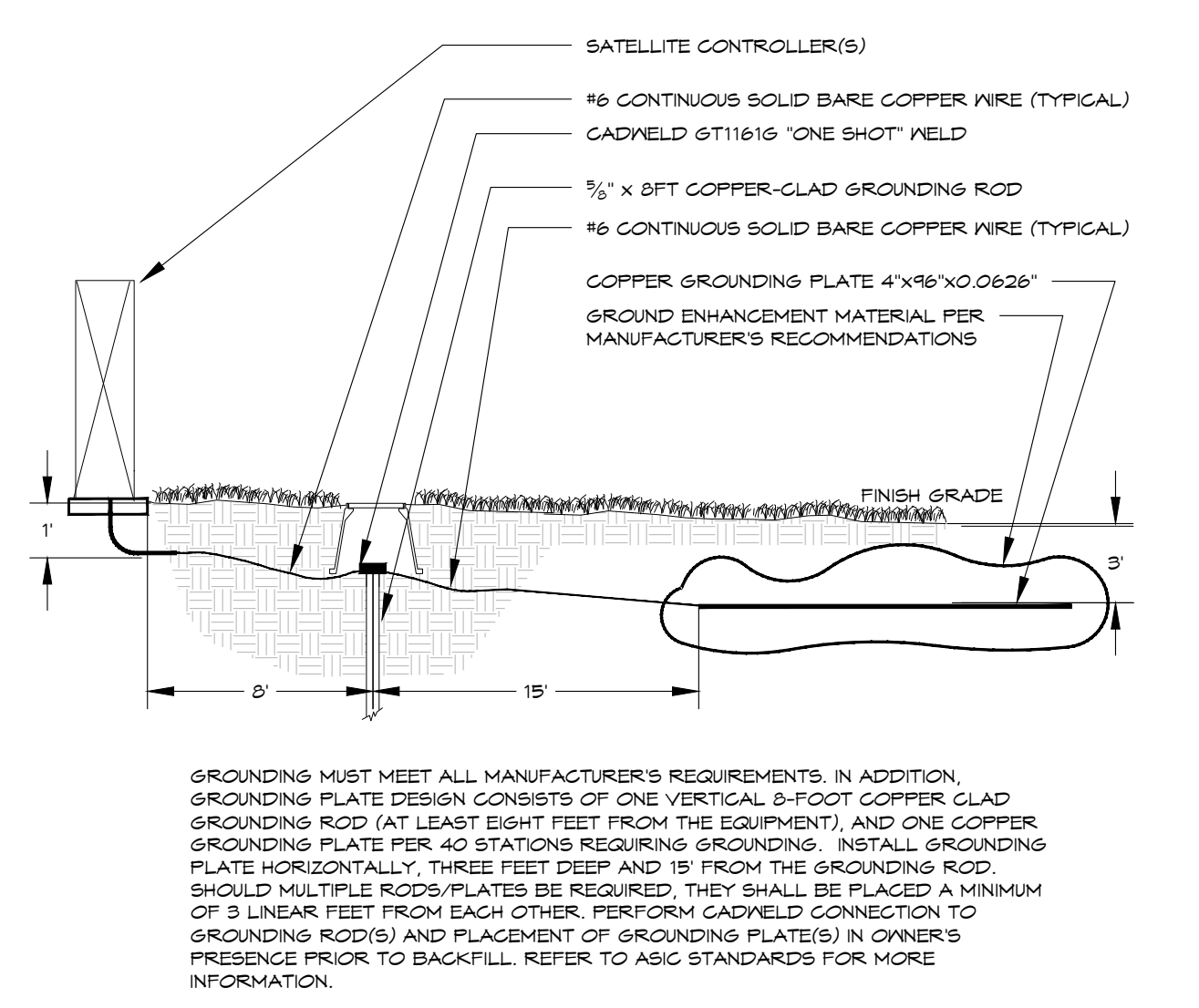
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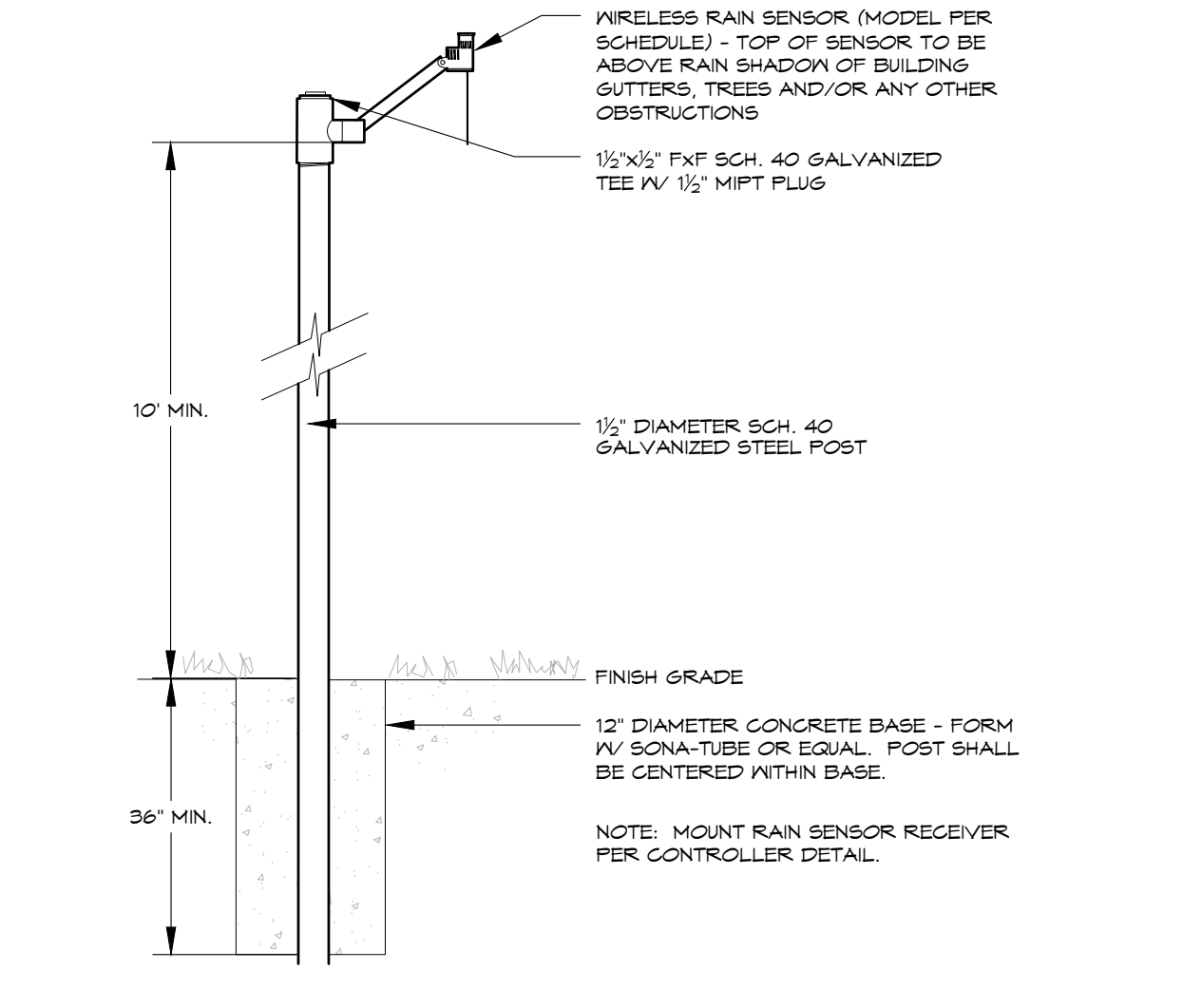
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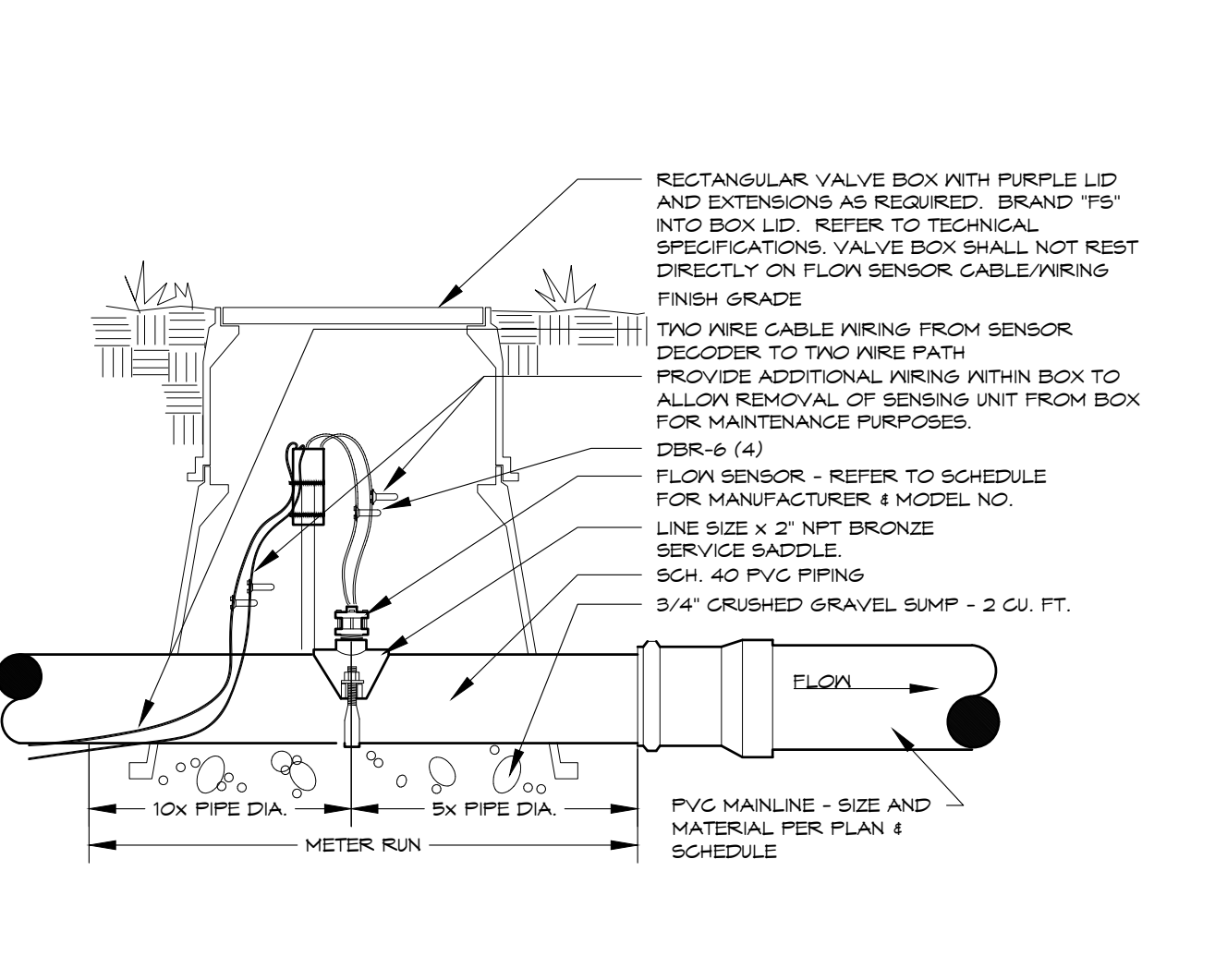
ELECTRIC CONTROLLER
PEDESTAL - FRONT OPENING - TYPICAL **1**



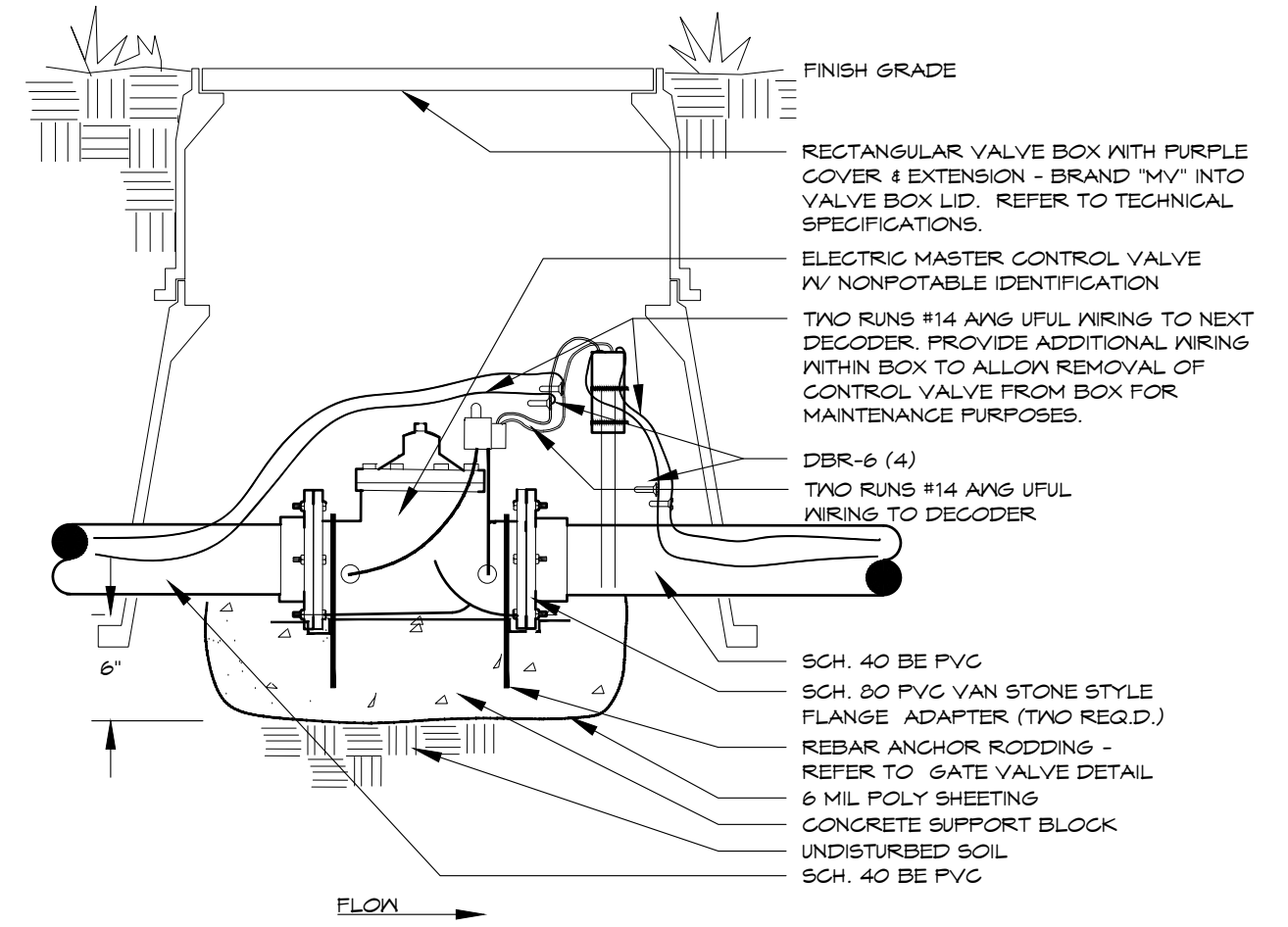
CONTROLLER GROUNDING
TWO-WIRE SYSTEM - Pedestal Mount **2**



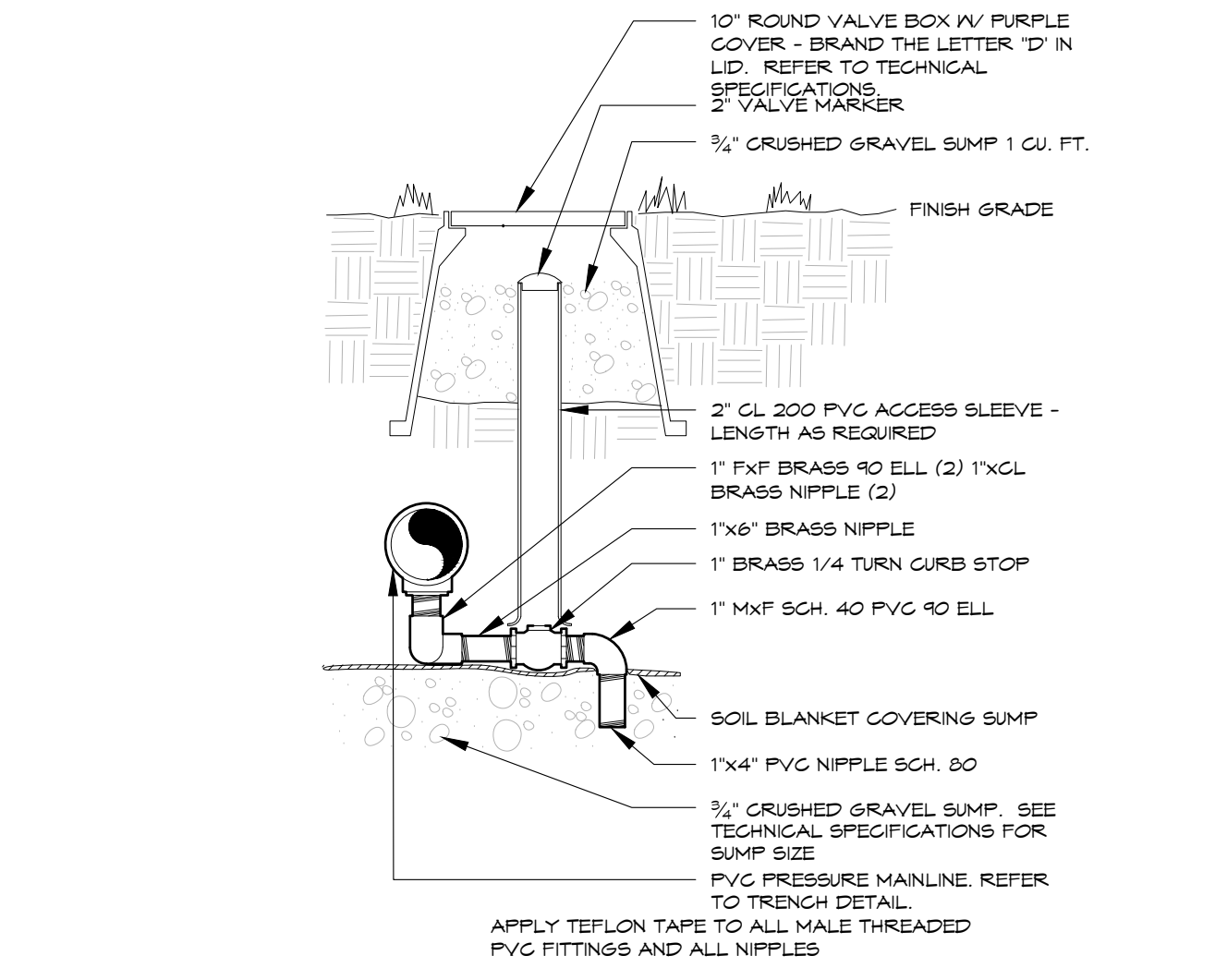
WEATHER SENSOR
POLE MOUNTED - Wireless **3**



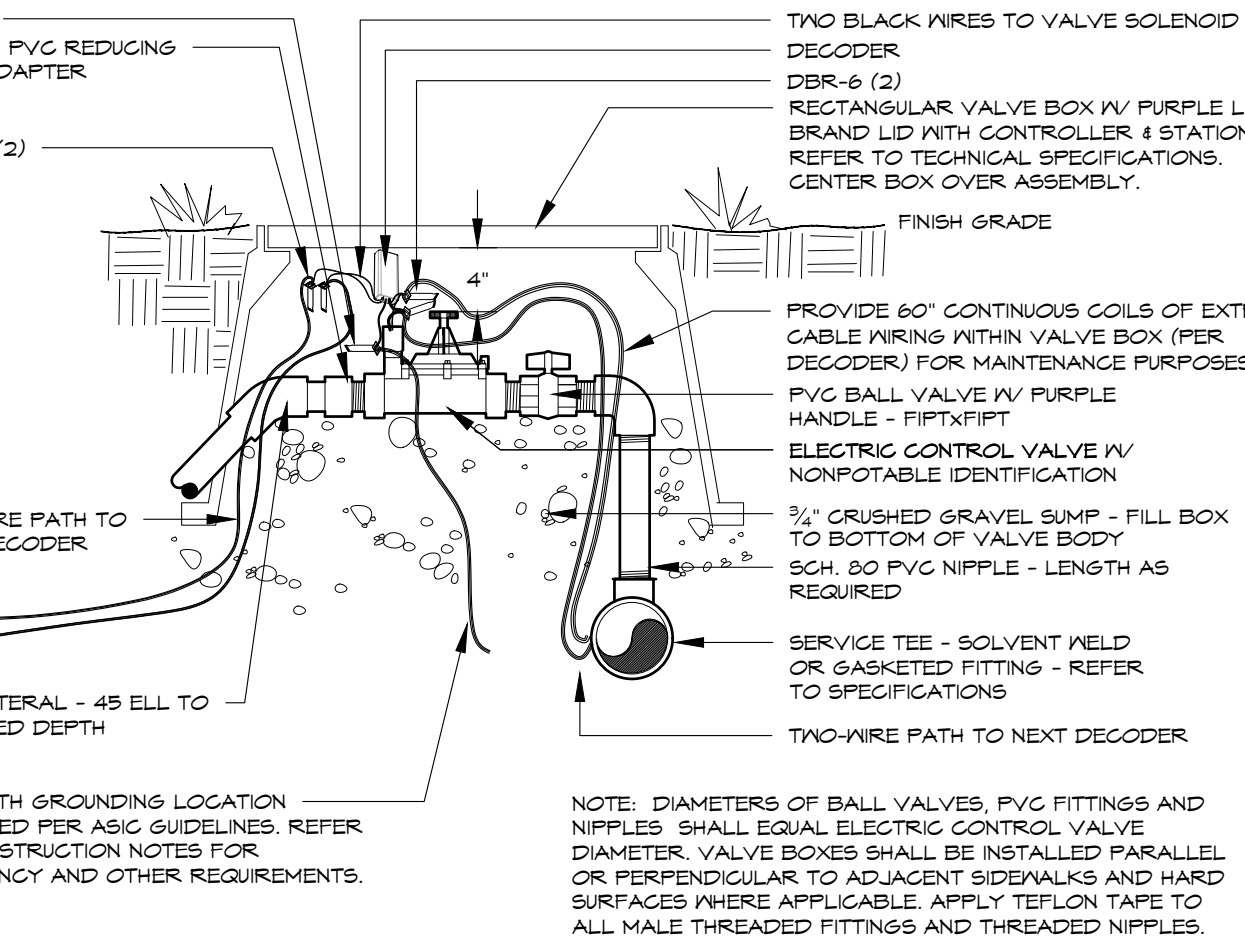
FLOW SENSOR
VIA DECODER - INSERT STYLE - NON-POTABLE **4**



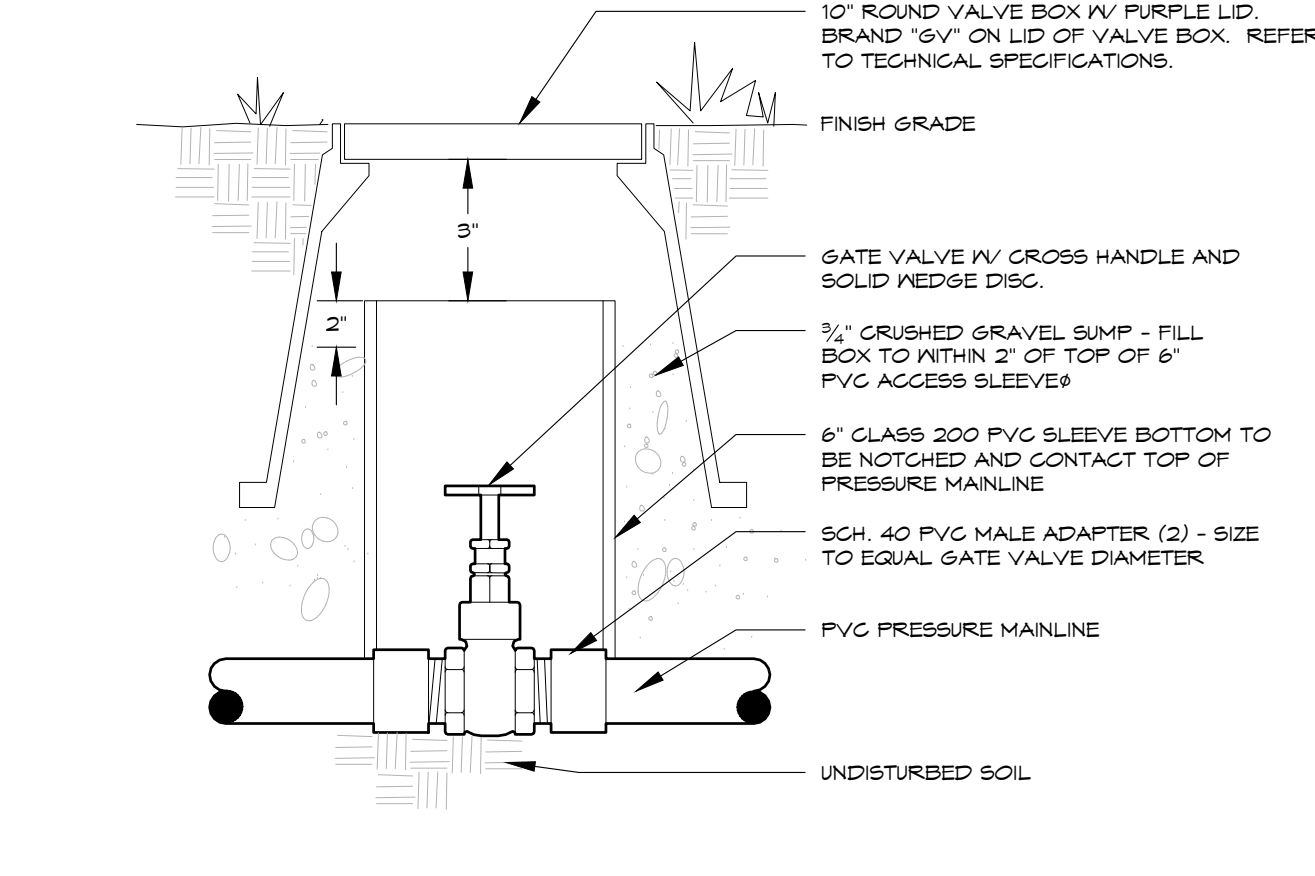
MASTER VALVE
VIA DECODER - TAPS 3" & LARGER - NON-POTABLE **5**



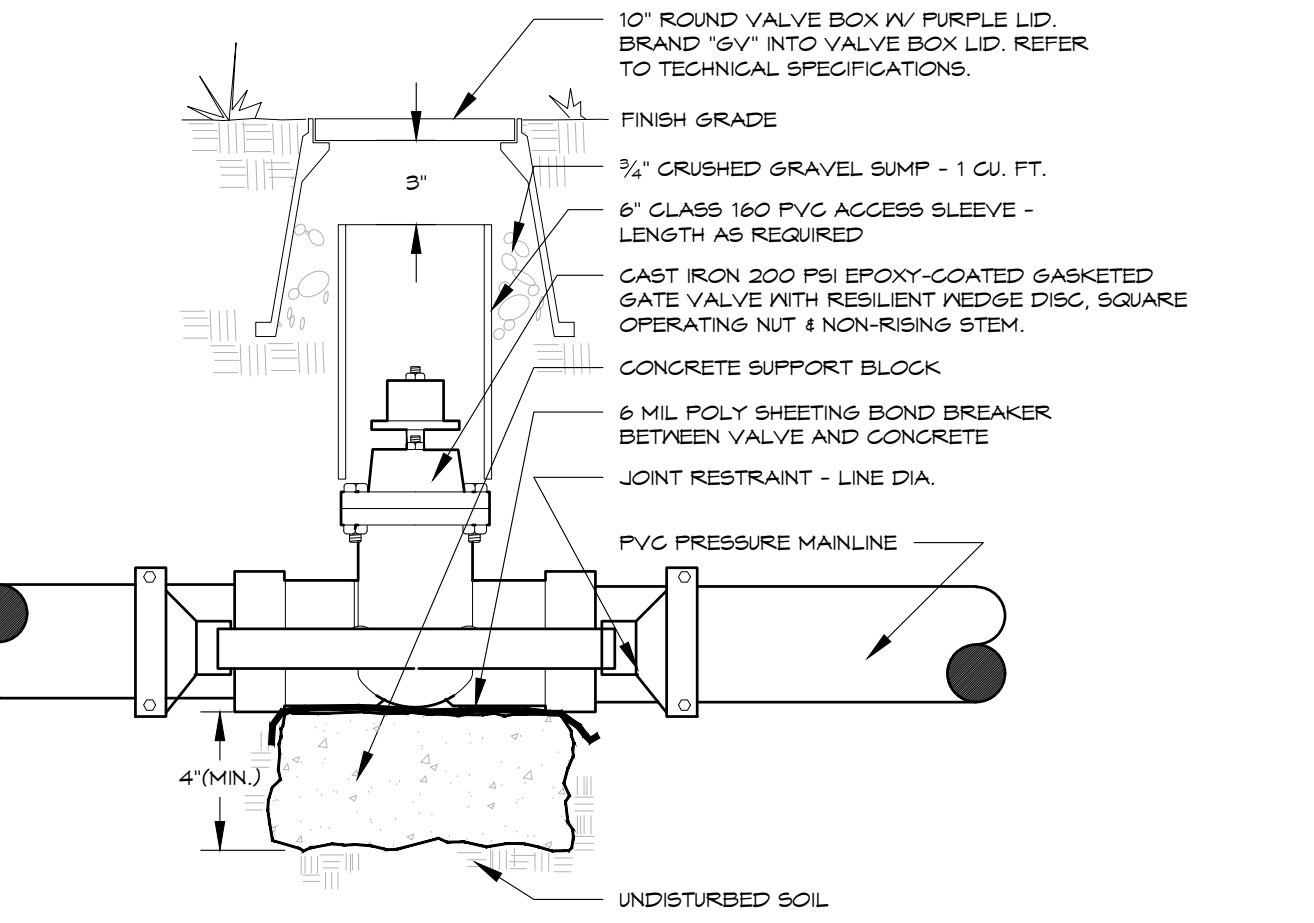
MANUAL DRAIN VALVE
NON-POTABLE **6**



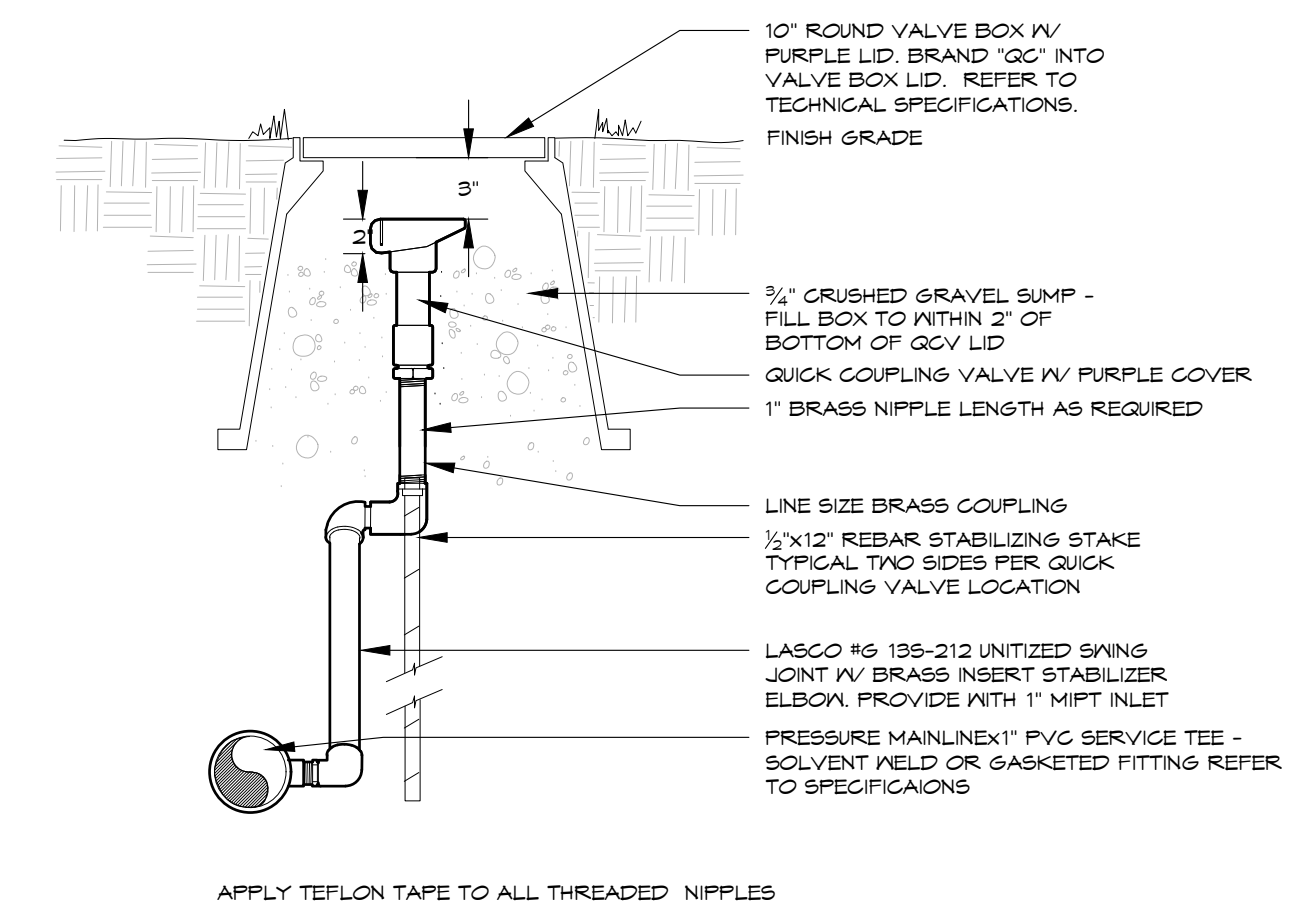
ELECTRIC CONTROL VALVE
TWO-WIRE SYSTEM - PVC PIPE - NON-POTABLE **7**



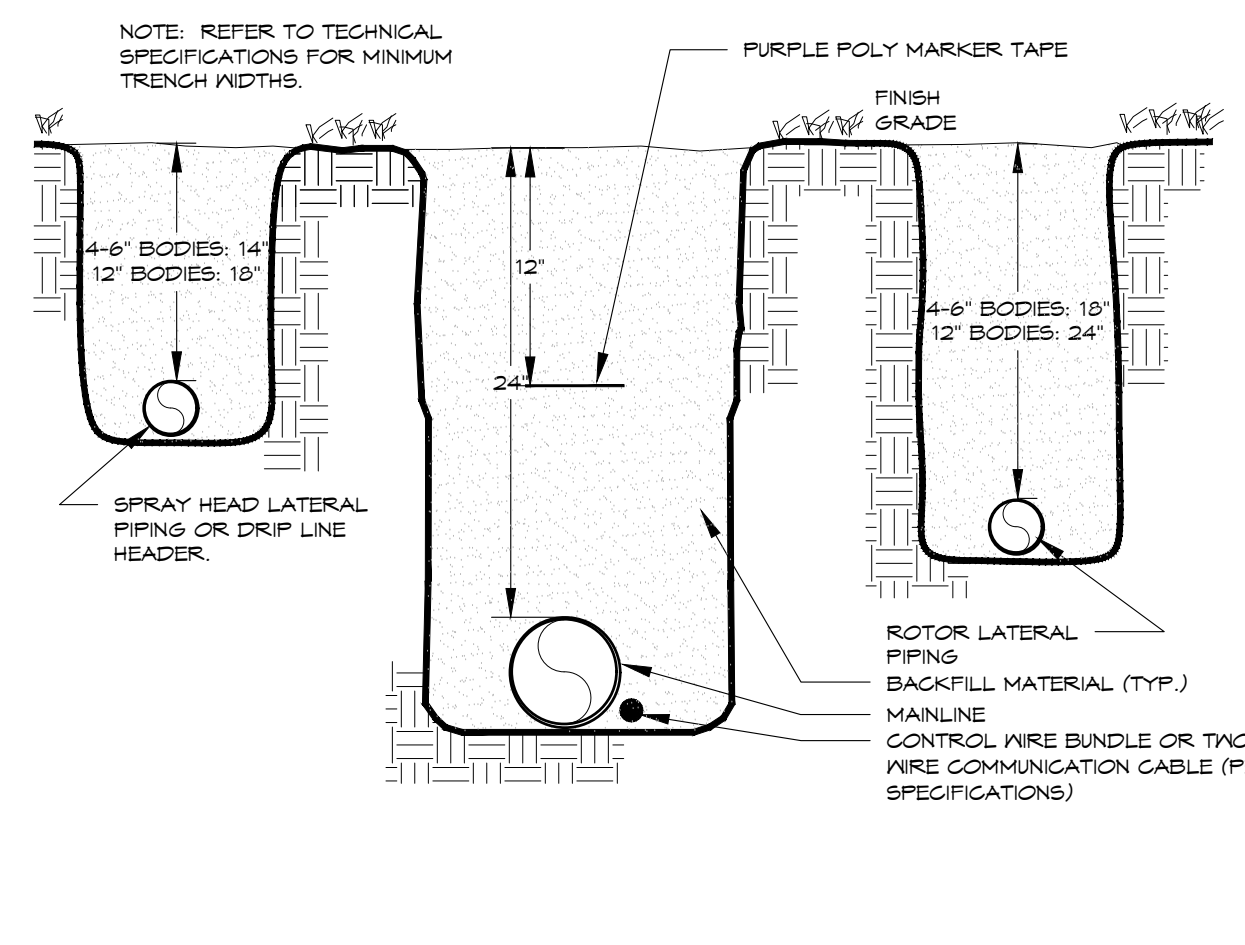
GATE VALVE
2.5" & SMALLER - X-HANDLE-NON-POTABLE **8**



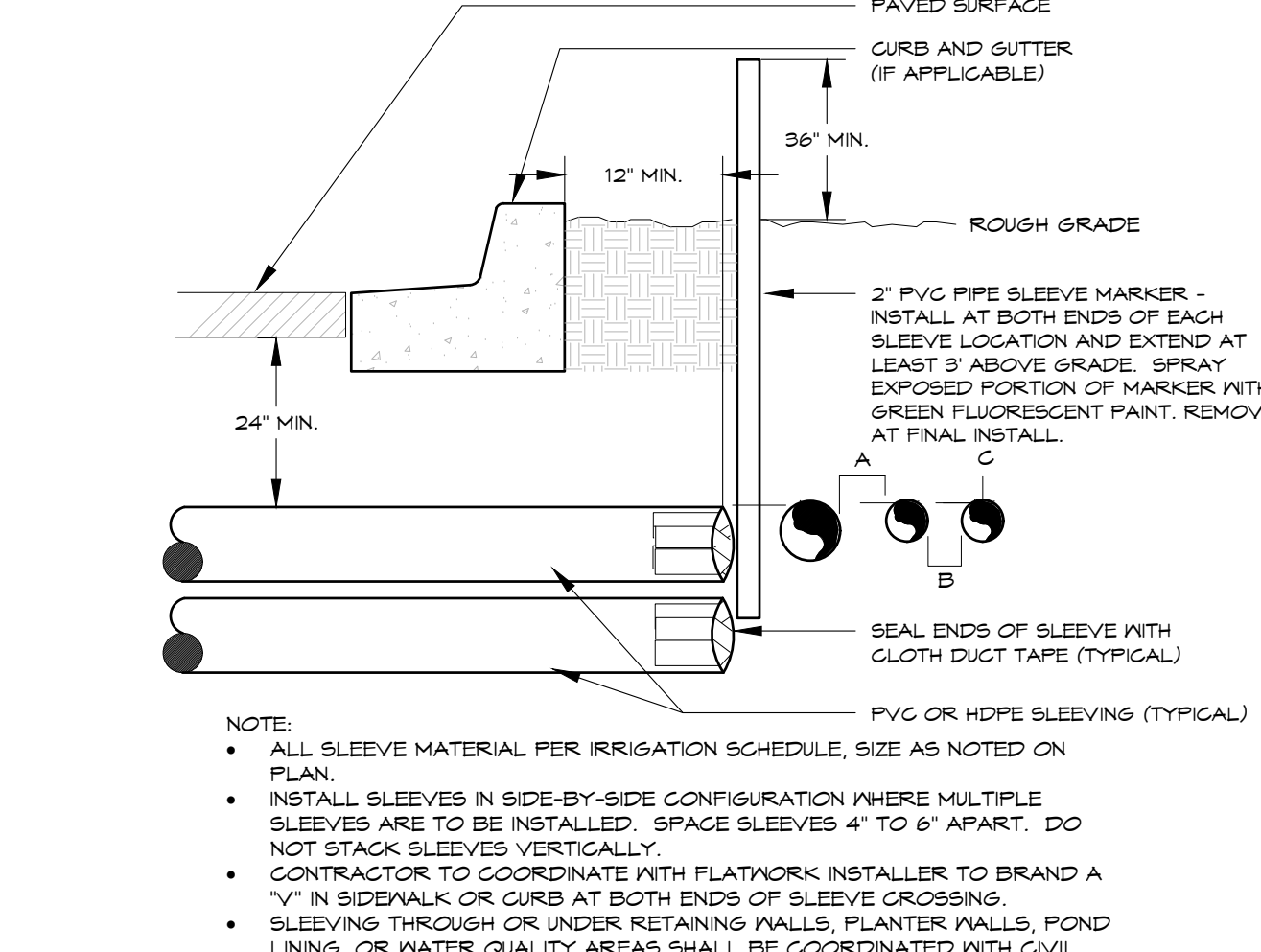
GATE VALVE
3" & LARGER - JOINTRESTRAINT - NON-POTABLE **9**



QUICK COUPLING VALVE
LASCOSWING - NON-POTABLE **10**



TRENCH
24" MAINLINE - PURPLE TAPE **11**



IRRIGATION SLEEVING
TYPICAL **12**

DIRECTORY

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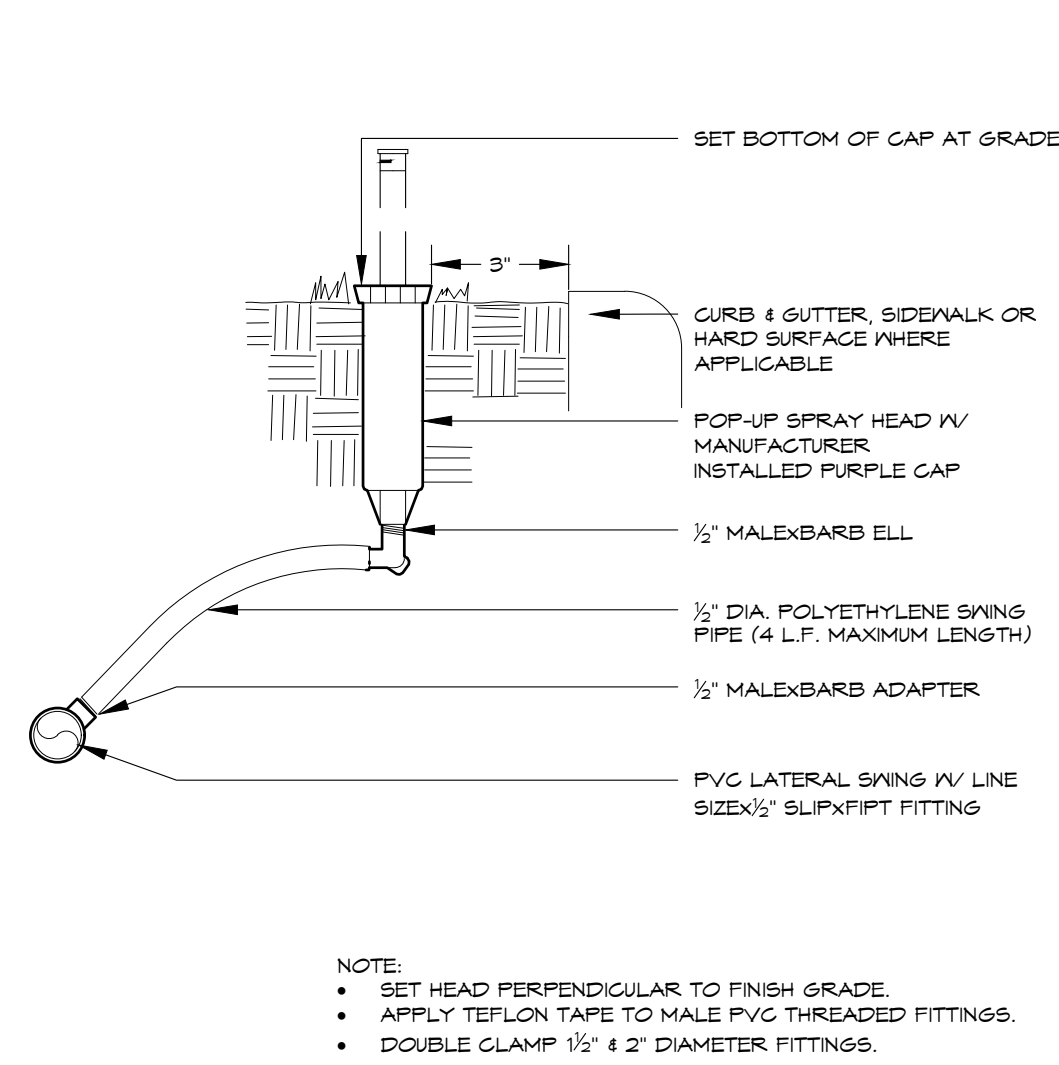
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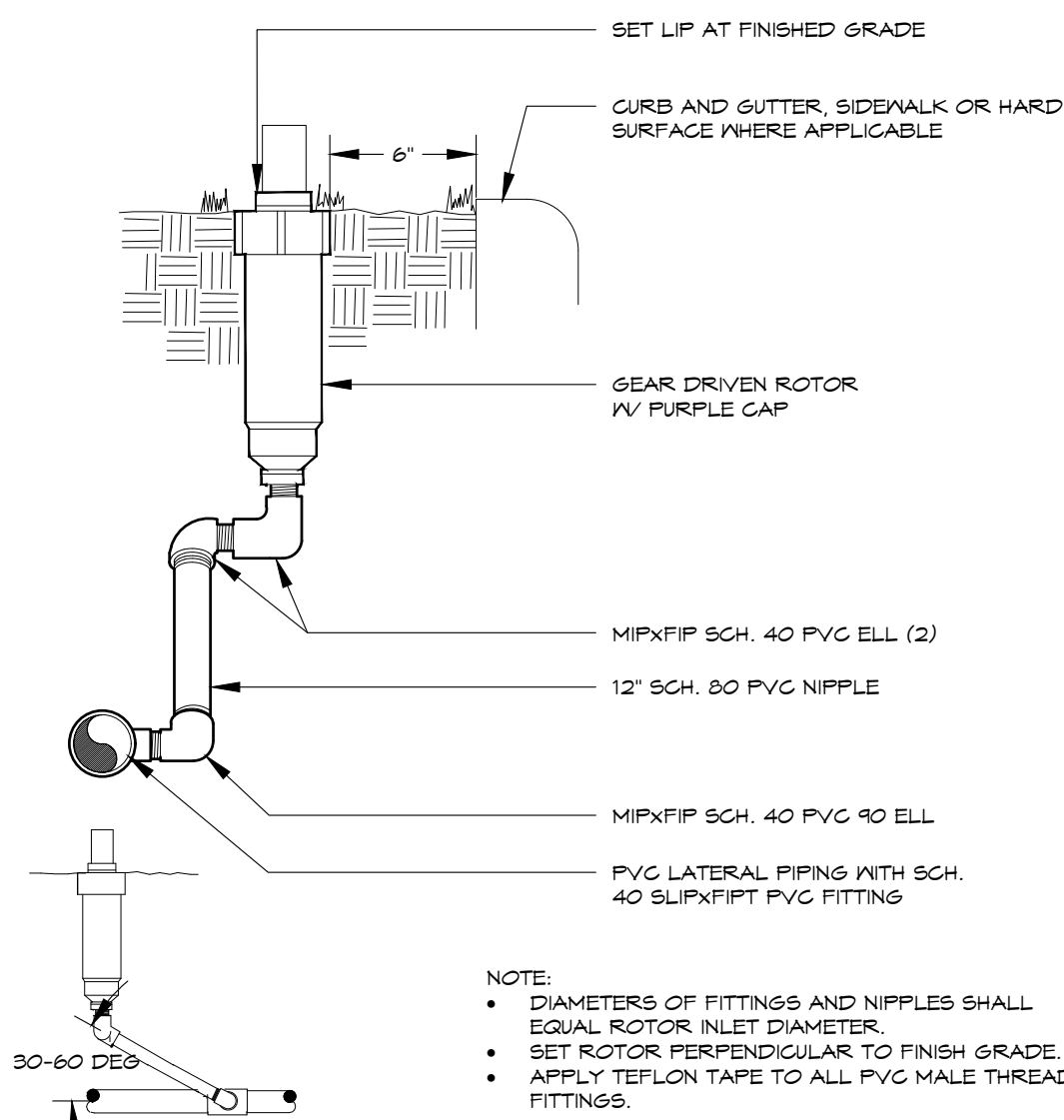
SHEET DESCRIPTION: IRRIGATION DETAILS

IR-6



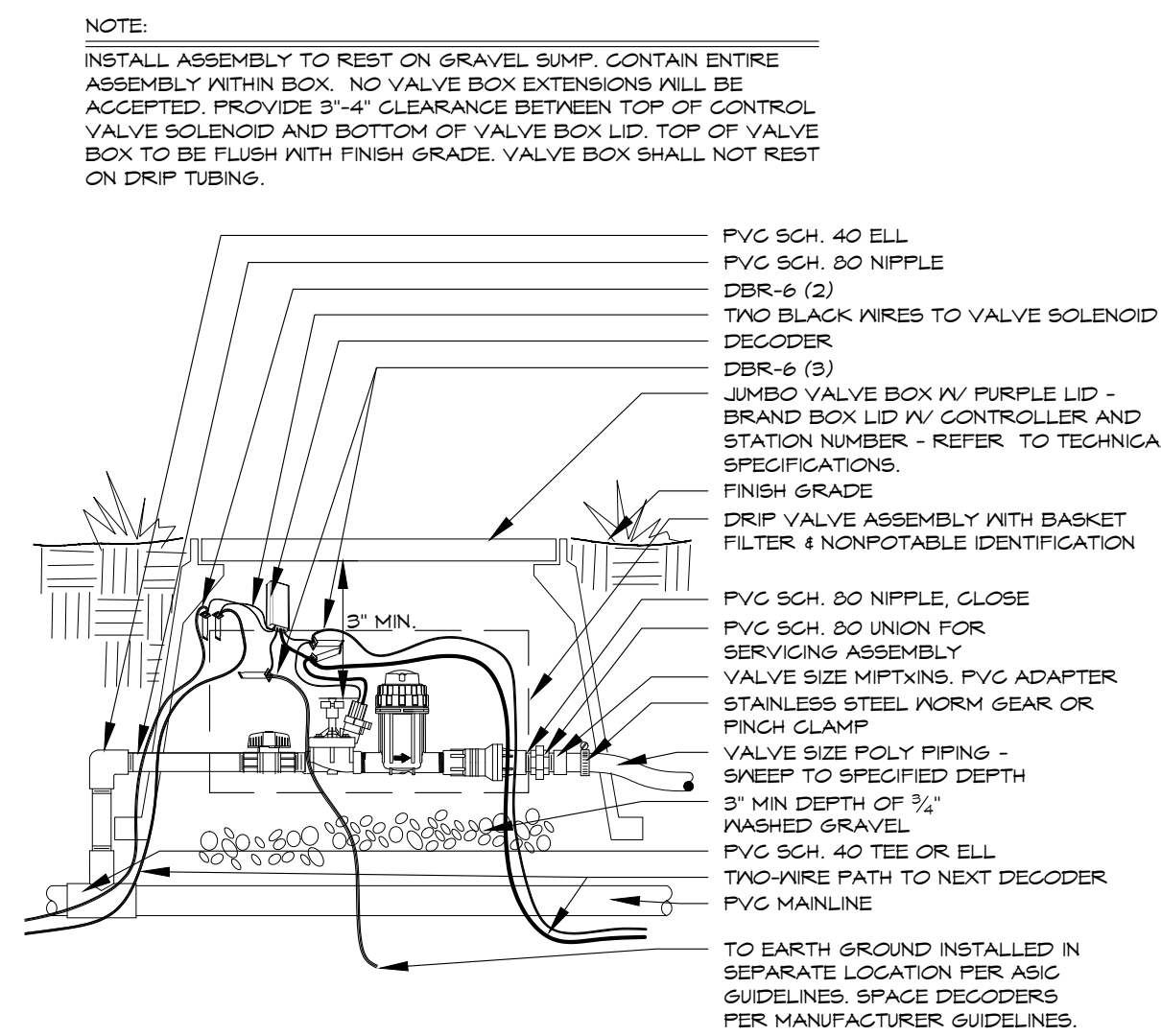
POP-UP SPRAY HEAD
 SWING PIPE - PVC - NON-POTABLE

13



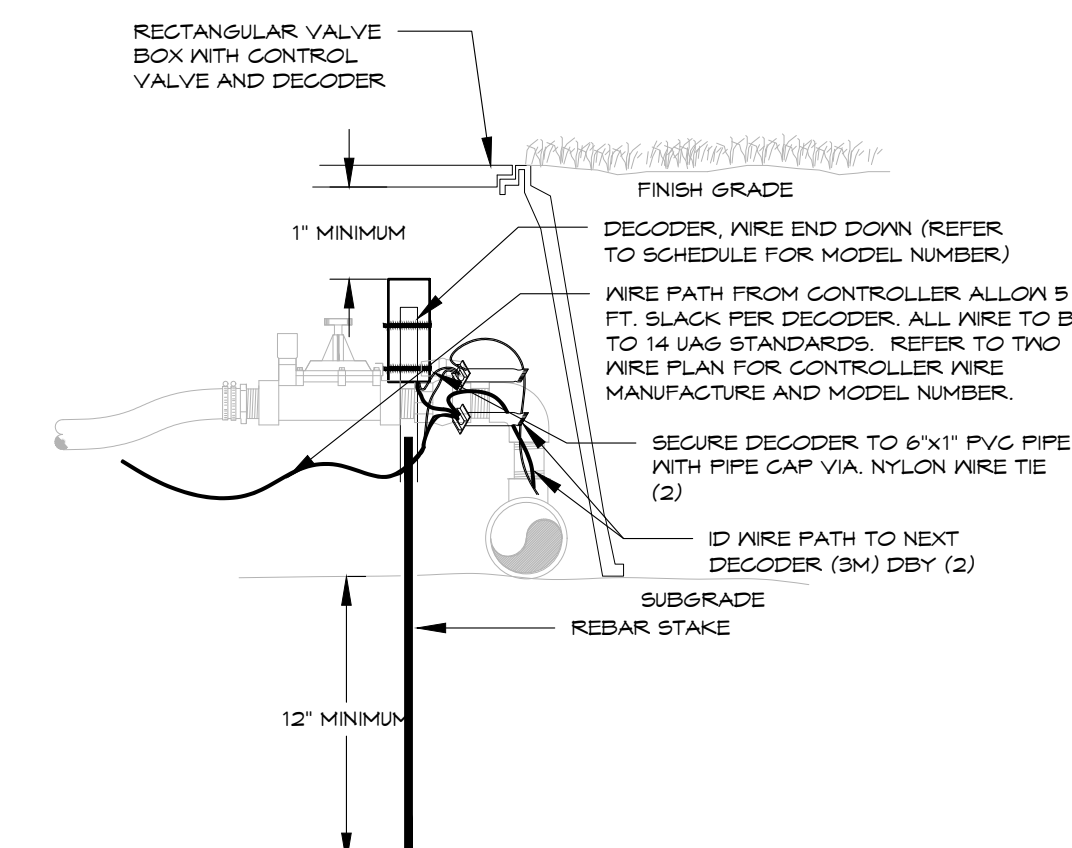
GEAR DRIVEN ROTOR
 SWING JOINT - PVC - NON-POTABLE

14



DRIP VALVE
 TWO-WIRE SYSTEM - BASKET - POLY PIPE - NON-POTABLE

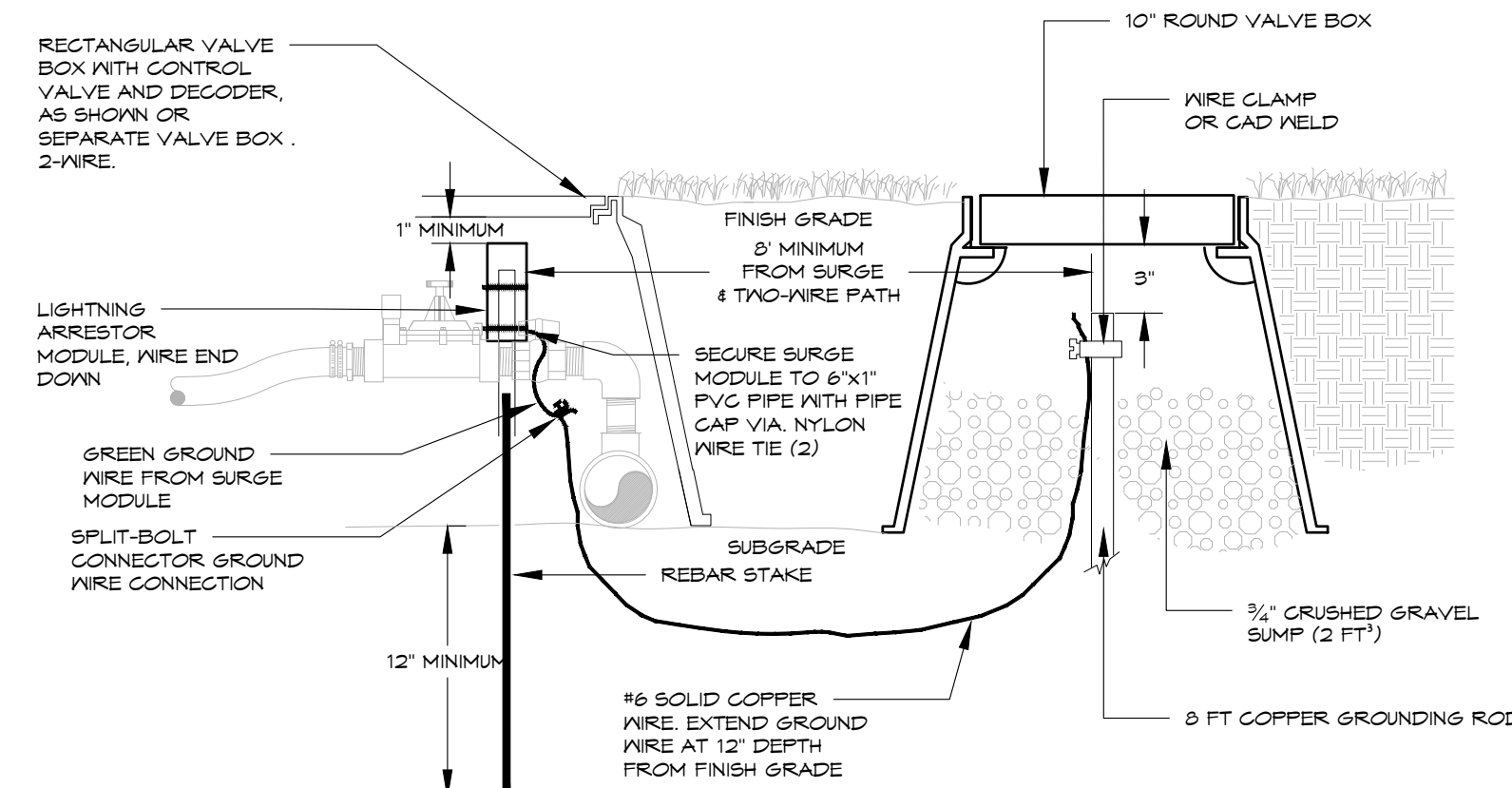
15



DECODER INSTALLATION
 TWO-WIRE SYSTEM

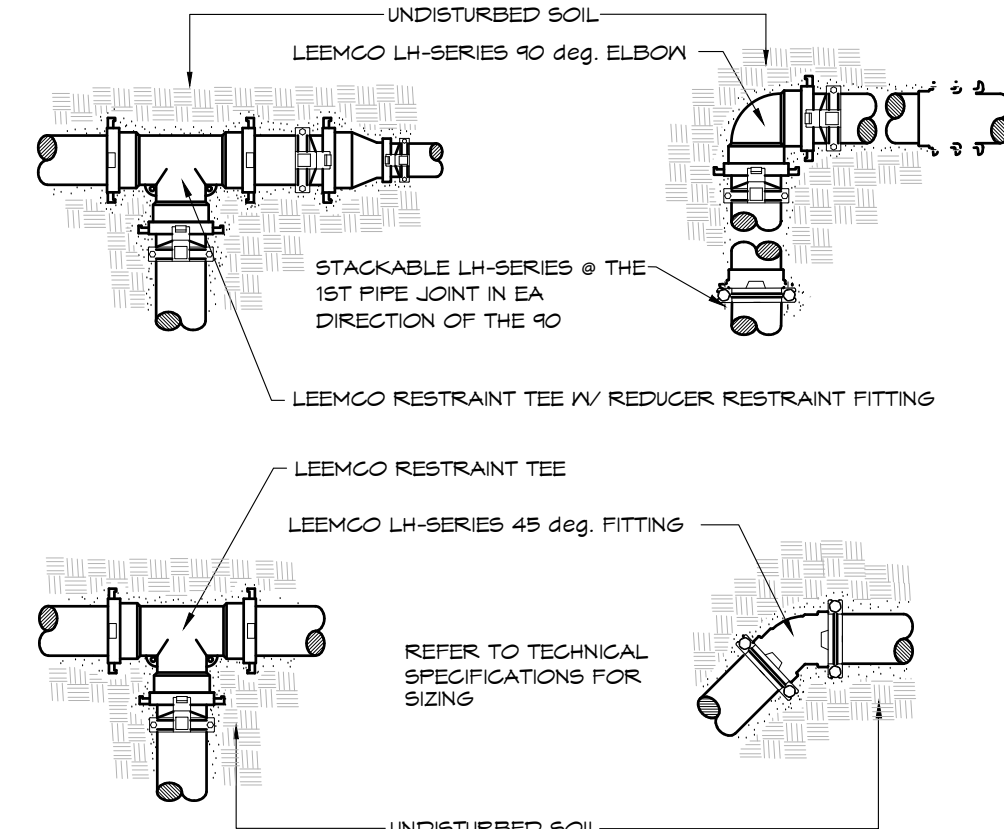
16

INSTALL PROPER TWO WIRE SURGE PROTECTION (MODULE) AT VALVE BOX LOCATIONS SHOWN PER MANUFACTURER RECOMMENDATIONS. GROUND ROD FOR BASELINE TO BE INSTALLED AT RIGHT ANGLE TO 2-WIRE PATH AT MIN 6" FROM VALVE BOX. (VALVE BI-CODER NOT SHOWN)



SURGE MODULE WITH GROUND ROD
 BASELINE TWO-WIRE SYSTEM

17



MECHANICAL RESTRAINT FITTINGS - 3" and LARGER

JOINT RESTRAINT INSTALLATION GUIDE

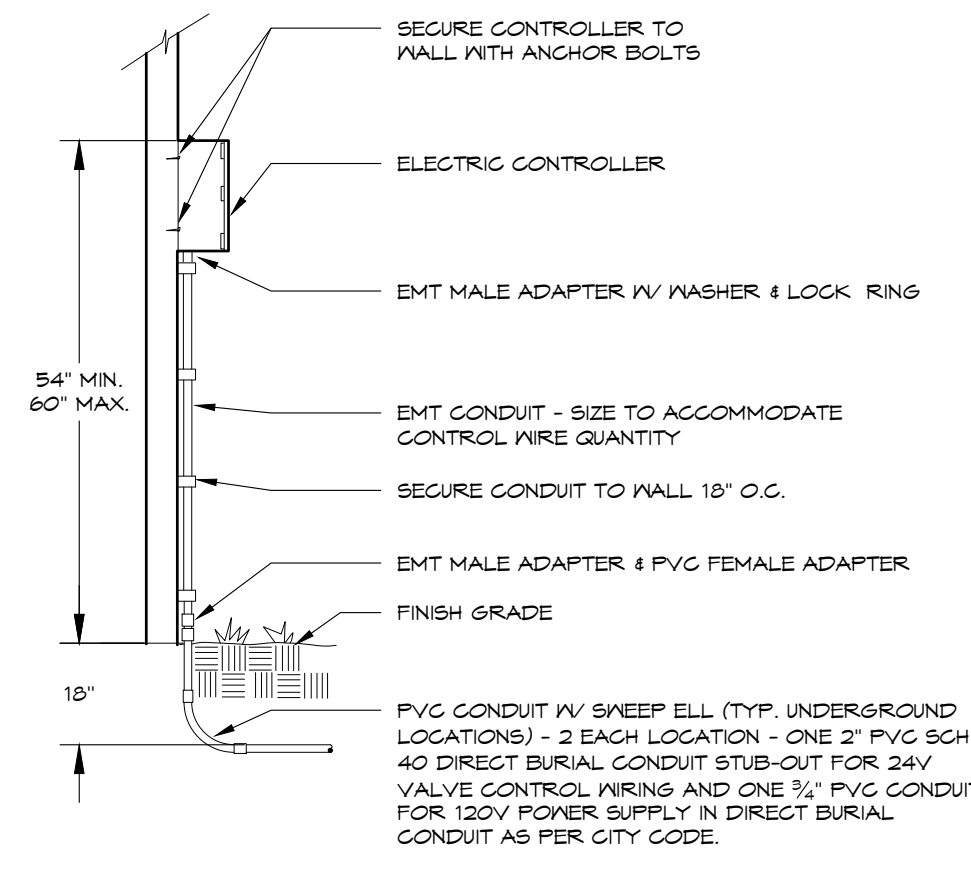
NOTE: WHEN THE DISTANCE BETWEEN A FITTING AND THE NEXT JOINT IS LESS THAN 20 FEET, THE FOLLOWING TABLE MUST BE USED. THE TABLE BELOW SHOWS THE DISTANCE (IN FEET) BETWEEN JOINTS WITHIN WHICH IF THERE IS A JOINT, IT MUST BE MECHANICALLY RESTRAINED. THE TABLE IS BASED ON 125 PSI, TYPE 3 TRENCH, AND 2-4 FEET DEPTH OF BURY (SMALL TO LARGE) DEPENDING ON PIPE SIZE. FOR OTHER PRESSURE MULTIPLY THE NUMBERS IN THE TABLE (FEET) BY THE ACTUAL PRESSURE AND DIVIDE BY 125.

PIPE SIZE	BENDS	STEP REDUCTION	DEAD END	GATE VALVE
1"	22	45	40	1
2"	1	2	6	19
2.5"	1	2	4	23
3"	2	3	6	30
4"	2	4	9	45
6"	3	6	13	63
8"	4	8	15	75
10"	5	10	21	94
12"	5	10	21	112
14"	6	11	24	130
16"	6	13	27	150

HARDWARE SIZE AND TORQUE REQUIREMENTS

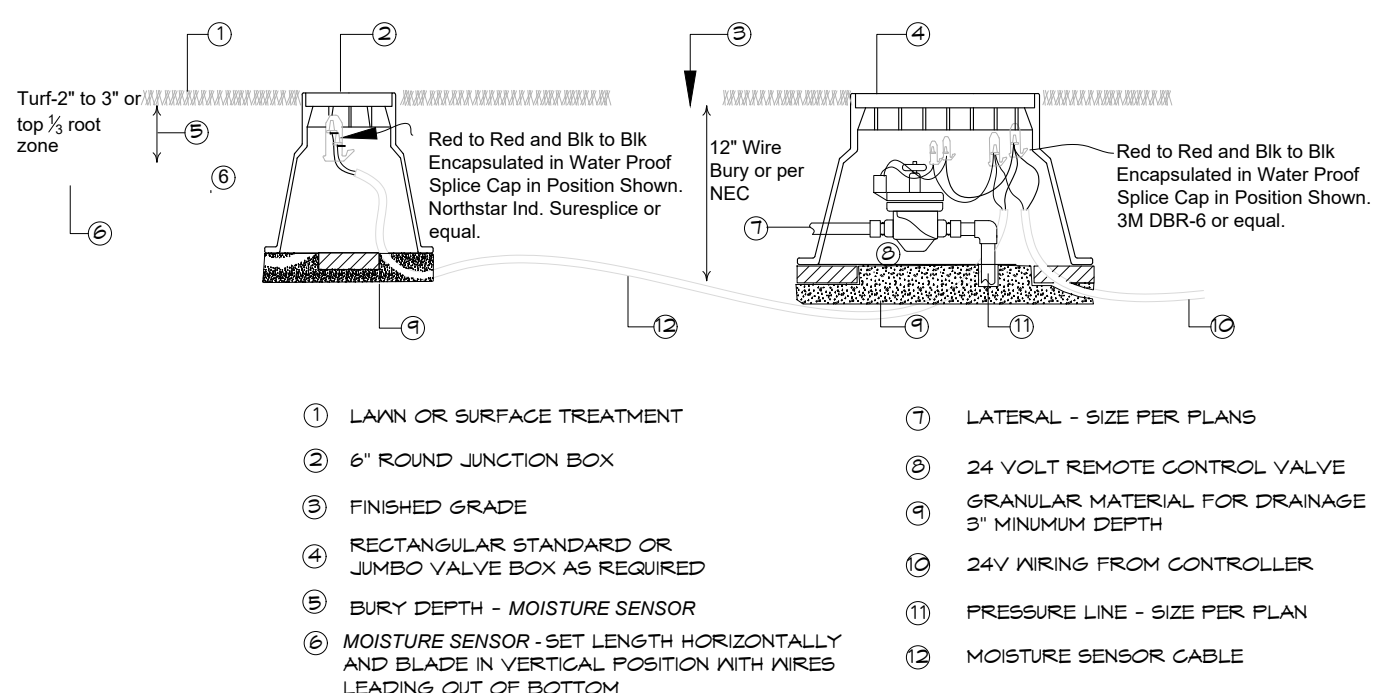
PIPE SIZE	PIPE O.D.	NO OF BOLTS	BOLT SIZE	TORQUE FT-LB	DIMENSIONS (INCH)		
					A	B	D
2"	2.375	2	3/8-16 X 2.5	20	4.1	3.1	4.0
2.5"	2.875	2	3/8-16 X 2.5	20	5.1	3.1	5.0
3"	3.500	2	3/8-16 X 2.5	20	6.6	3.4	6.5
4"	4.500	2	1/2-19 X 3	50	6.7	3.0	7.3
6"	6.625	2	1/2-19 X 3.5	50	9.0	4.6	9.0
8"	8.625	4	1/2-19 X 4	50	11.2	5.9	12.0
10"	10.750	4	5/8-11 X 5.5	100	13.4	7.3	14.0
12"	12.750	4	5/8-11 X 5.5	100	15.4	8.0	16.7
14"	15.000	4	5/8-11 X 5.5	100	23.0	9.5	21.0
16"	17.400	4	5/8-11 X 5.5	100	25.0	10.5	23.0

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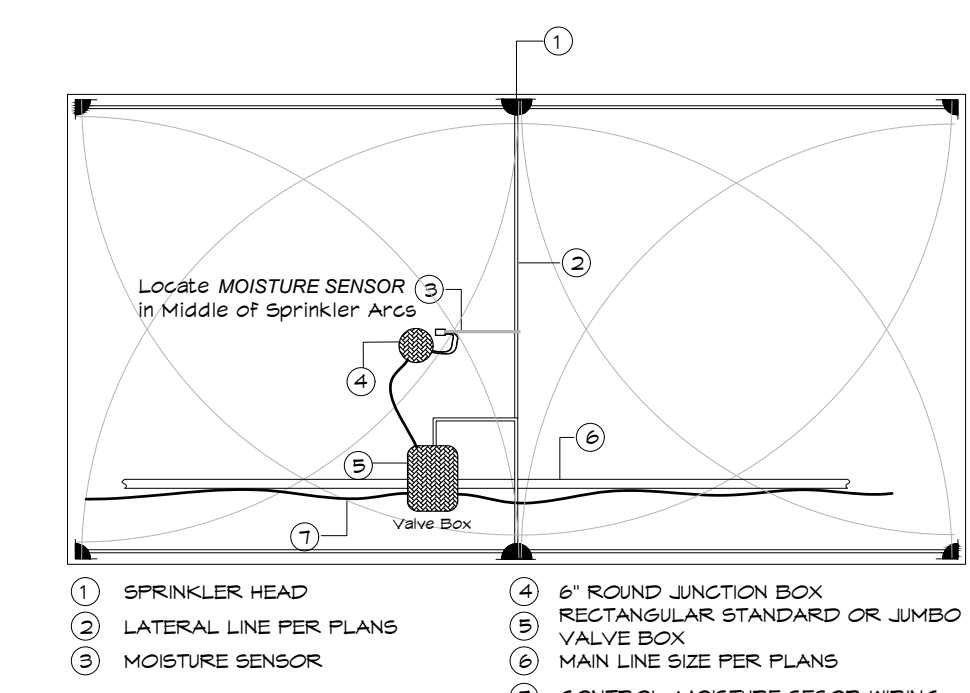
ELECTRIC CONTROLLER
 EXTERIOR WALL MOUNT

19



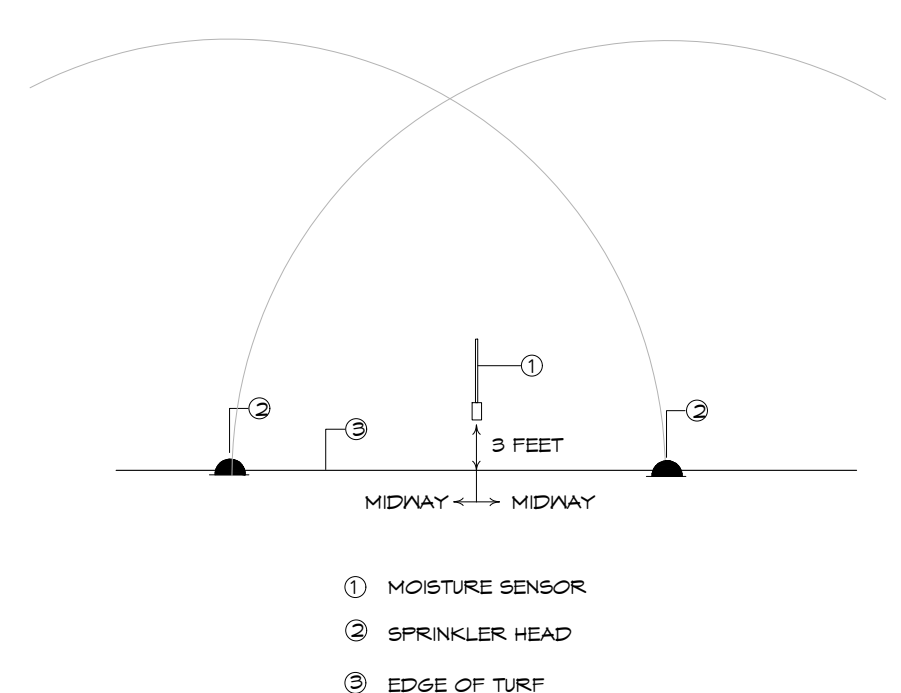
MOISTURE SENSOR INSTALLATION DETAIL

20



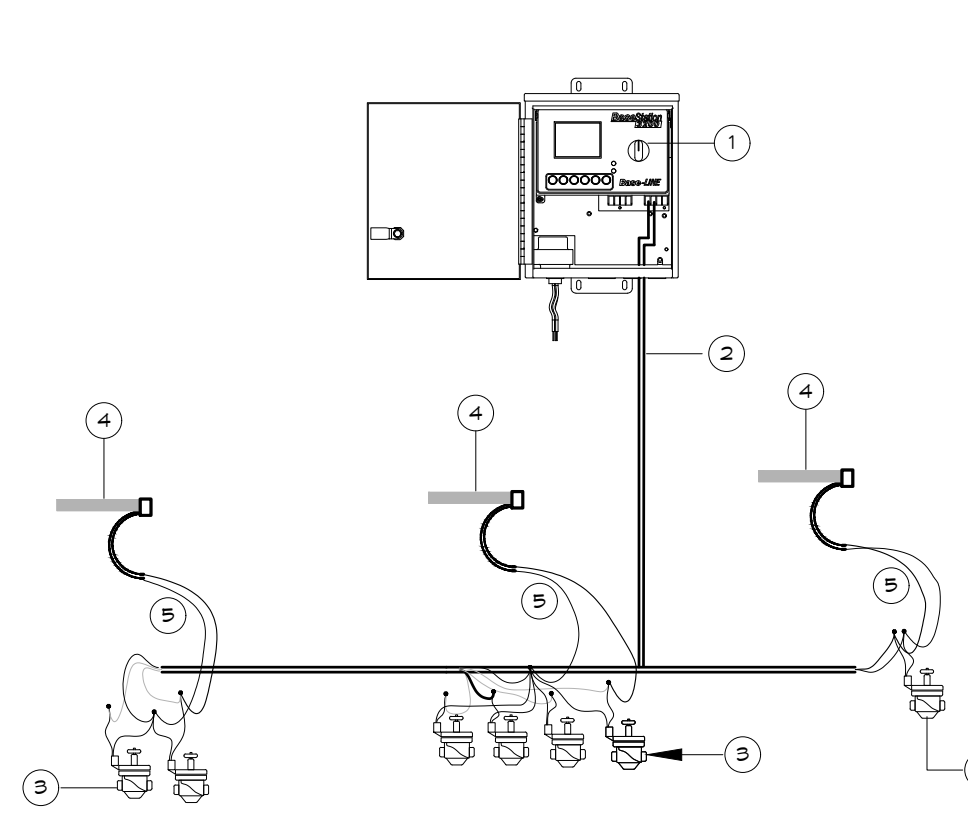
SENSOR LOCATION WITHIN A SPRINKLER ZONE
 TYPICAL

21



SENSOR LOCATION WITHIN A PART CIRCLE SPRINKLER ZONE - TYPICAL

22



MOISTURE SENSOR WIRING DETAIL
 TYPICAL

23

- DIRECTORY**
- IRRIGATION SCHEDULE IR-1
 - IRRIGATION NOTES IR-1
 - IRRIGATION PLANS IR-2 - IR-4
 - IRRIGATION PUMP UPDATE IR-5
 - IRRIGATION DETAILS IR-6 - IR-7

REVIEW
 NOT FOR CONSTRUCTION

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IRRIGATION DESIGN AND CONSULTING

ROXBOROUGH COMMUNITY PARK
 LITTLETON, COLORADO

REVISION:	DATE	DESCRIPTION

ISSUE DATE: 08/17/2020
 DRAWN BY: JK
 CHECKED BY: KD

SHEET DESCRIPTION:
IRRIGATION DETAILS

IR-7