VALLEY VIEW DOG PARK

City of Council Bluffs

1599 Franklin Boulevard
Council Bluffs, Iowa



CONFLUENCE

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L501	LANDSCAPE DETAILS
	MECHANICAL SHEETS
M1.0	SITE UTILITY PLAN
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M2.1	SPECIFICATIONS

VICINITY MAP



MECHANICAL ENGINEER
ALVINE
1201 CASS STREET
OMAHA, NE 68102
PH: (402) 346-7007
www.alvine.com
CONTACT: Matthew Sargent

LANDSCAPE ARCHITECT
CONFLUENCE
1111 N 13TH STREET, STUDIO 204
OMAHA, NE 68102
PH: (402) 973-9908
www.thinkconfluence.com
CONTACT: Dolores Silkworth

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF IOWA.

NAME REGISTRATION #337 DATE:

SHEETS COVERED BY THIS SEAL: G100, L000, L100, L200, L201, L202, L300, L400, L401, L500, L501

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CONSTRUCTION

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Know what's below. Call before you dig.

COVER SHEET

CONFLUENCE PROJECT # 21033

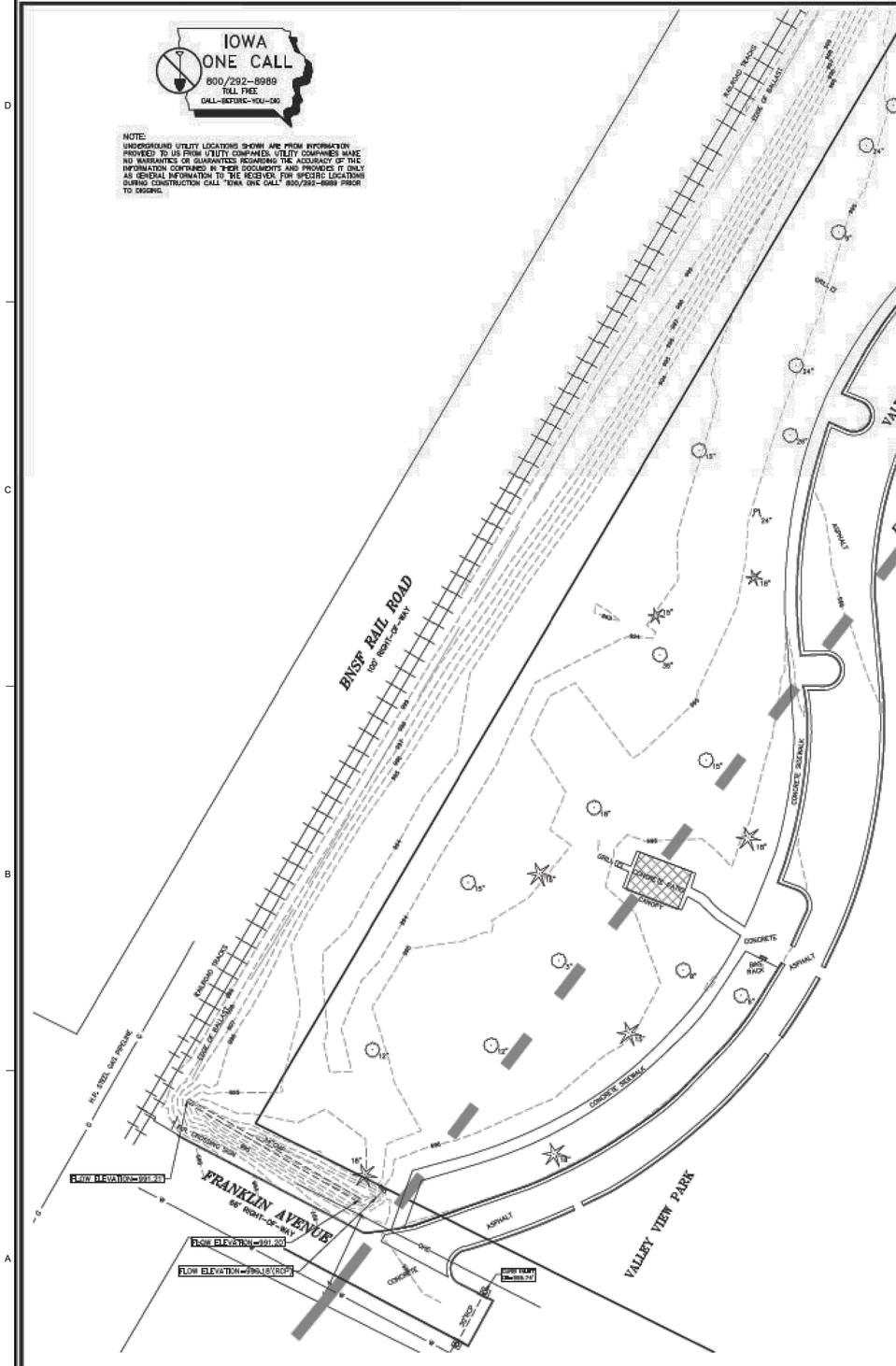
G100

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File Location: N:\1 PROJECTS\2021\21033_Valley View Dog Park\21033_WORKINGS\AUTOCAD\SHEETS\L000 21033 COVER SHEET / Drawn by: RA / Checked by: CB

IOWA ONE CALL
800/292-8989
TOLL FREE
CALL-BEFORE-YOU-DIG

NOTE:
UNDERGROUND UTILITY LOCATIONS SHOWN ARE FROM INFORMATION PROVIDED TO US FROM UTILITY COMPANIES. UTILITY COMPANIES MAKE NO WARRANTIES OR GUARANTEES REGARDING THE ACCURACY OF THE INFORMATION CONTAINED IN THEIR DOCUMENTS AND PROVIDED IT ONLY AS GENERAL INFORMATION TO THE RECEIVER. FOR SPECIFIC LOCATIONS DURING CONSTRUCTION CALL "IOWA ONE CALL" 800/292-8989 PRIOR TO DIGGING.



MISCELLANEOUS NOTES:

1) THE CURRENT ZONING FOR THE SUBJECT PROPERTY (PER PUBLIC RECORD) IS: A-2/PARKS, ESTATES AND AGRICULTURAL DISTRICT

(15.05.050 - SITE DEVELOPMENT REGULATIONS)
MINIMUM LOT SIZE

REGULATION	REQUIREMENTS
MIN. WIDTH	15 FEET
MIN. DEPTH	1,000 FEET MINIMUM
MIN. DEPTH	1,000 FEET MINIMUM

MIN. SETBACKS	PRINCIPLE STRUCTURE	ACCESSORY STRUCTURE
FRONT YARD	30 FEET	SHALL BE AT LEAST 30 FEET OR EXISTING FRONT SETBACK LINE OF PRINCIPAL STRUCTURE
STREET SIDE YARD	20 FEET	20 FEET
SIDE YARD	20% OF LOT WIDTH, OR 10 FEET MINIMUM IS GREATER	10% OF LOT WIDTH OR 10 FEET MINIMUM IS GREATER
REAR YARD	20 FEET	20 FEET
FUEL TANK	25 FEET	25 FEET
LOT COVERAGE	15% MAXIMUM	

AS THERE ARE MULTIPLE POSSIBLE USAGE CONFIGURATIONS, PLEASE REFER TO YOUR ADDITIONAL REGULATIONS AND VERIFY CURRENT OR FUTURE REQUIREMENTS WITH CITY PLANNING.

SPECIFIC SETBACK DISTANCES SHOULD BE VERIFIED WITH THE CITY OF COUNCIL BLUFFS COMMUNITY DEVELOPMENT DEPARTMENT 712-328-4620, PARTICULARLY FOR NEW DESIGN/CONSTRUCTION TO ELIMINATE ANY PROBLEMS CAUSED BY "INTERPRETATIONS" OF ZONING LANGUAGE.

2) NO CERTIFICATE OF TITLE INSURANCE/INFORMATION WAS SUPPLIED TO THE SURVEYOR. THERE MAY BE ADDITIONAL SUPPLEMENTAL SITE RESTRICTIONS, COVENANTS, AGREEMENTS OR ENCUMBRANCES, RECORDED OR NOT RECORDED, THAT APPLY. IF THE OWNER IS AWARE OF ANY ADDITIONAL DOCUMENTATION, IT SHOULD BE FURNISHED TO THE ARCHITECT, ENGINEER AND LAND SURVEYOR FOR REVIEW. THESE RESTRICTIONS MAY SUPERSEDE THE ZONING SET BACK LIMITS AS SHOWN.

3) EHRHART GRIFFIN & ASSOCIATES CANNOT BE RESPONSIBLE FOR ISSUES AND / OR DAMAGES CREATED BY THE OMISSION OF SUFFICIENT TITLE AND RECORD DOCUMENTATION WHICH WOULD HAVE BEEN OTHERWISE DISCLOSED.

4) FLOOD ZONE OF SUBJECT PROPERTY – PER POTTAWATTAMIE COUNTY, IOWA FLOOD INSURANCE RATE MAP COMMUNITY OF THE CITY OF COUNCIL BLUFFS (COMMUNITY NUMBER – 190235), MAP NUMBER 19155C0414E, DATED FEBRUARY 4, 2005, IS

ZONE AE – SPECIAL FLOOD HAZARD AREA SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD. – BASE FLOOD ELEVATIONS DETERMINED

FLOODWAY AREAS: THE FLOODWAY IS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENTS SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS.

5) THE UTILITY LOCATIONS ON THIS PLAT ARE THE RESULT OF A COMBINATION OF FIELD LOCATED POSITIONS AND/OR AS-BUILT DRAWINGS PROVIDED BY THE UTILITY COMPANIES AT OUR REQUEST AND ARE THEREFORE SUBJECT TO INTERPRETATION. THE LOCATIONS ARE APPROXIMATE AND NO GUARANTEE IS MADE OR IMPLIED AS TO THEIR ACCURACY. FURTHER VERIFICATION MAY BE REQUIRED TO IDENTIFY UTILITIES NOT SHOWN HEREON. CONTACT IOWA ONE-CALL AT 1-800-292-8989 OR 811, OR VISIT THEIR WEB SITE "www.iowaonecall.com".

6) A ONE-CALL REQUEST WAS MADE FOR THIS SURVEY. TICKET NUMBER 352004675.

7) ALL SANITARY AND STORM PIPE SIZES (DIAMETERS) WERE ESTIMATED AT THE SURFACE OF THE STRUCTURE. "CONFINED SPACE ENTRY" WAS NOT EMPLOYED TO MEASURE PIPE DIAMETERS DIRECTLY. ALL PIPE DIAMETERS ARE SUBJECT TO VERIFICATION BY THE CONTRACTOR.

8) ELEVATIONS SHOWN HEREON ARE NAVD88 DATUM DETERMINED BY RTK GPS OBSERVATION USING NGS GEOID 12A.
T.B.M.: NORTH RIM OF A STORM SEWER CURB INLET MAN HOLE LOCATED ON THE SOUTH SIDE OF THE EAST END OF THE PAVED PORTION OF FRANKLIN AVENUE LYING WEST OF MOSQUITO CREEK.
ELEVATION=998.24

9) HORIZONTAL CONTROL IS ON IOWA SOUTH STATE PLANE COORDINATE SYSTEM.

10) LIMITED BOUNDARY RECOVERY WAS USED TO REGISTER THIS TOPOGRAPHIC SURVEY. ANY ISSUES REGARDING SPECIFIC PROPERTY LINES SHOULD BE ADDRESSED BY A THOROUGH BOUNDARY SURVEY.

NORTH
SCALE 1" = 30'

30 0 30 60 90 FEET

LEGEND

- △ – SET 5/8" REBAR W/CAP (U.N.O.)
- ● – FOUND SURVEY POINT
- ◬ – TEMPORARY CONTROL POINT (T.C.P.) (12" LANDSCAPE SPIKE) (U.N.O.)
- C.T.P. – CRIMPED TOP PIPE
- O.T.P. – OPEN TOP PIPE
- S.D.H. – STAR DRILL HOLE
- "X" – CHISELED "X" IN CONCRETE
- P – PLAT DISTANCE
- A – ACTUAL DISTANCE
- R – RECORDED DISTANCE
- C – COMPUTED DISTANCE
- U.N.O. – UNLESS NOTED OTHERWISE
- T.B.M. – TEMPORARY PROJECT BENCH MARK
- (998.5) – SPOT ELEVATION
- F.F.E. – FINISHED FLOOR ELEVATION
- T.E. – THRESHOLD ELEVATION
- UTILITY LINES OVERHEAD (SOLID)
- UTILITY LINES BURIED (DASHED)
- UTILITY FEATURE AS NOTED
- FENCE (TYPES NOTED)
- SMALL SIGN
- FENCES (TYPES NOTED)
- L.S. – LANDSCAPING AREA
- TREE LINE
- DECIDUOUS TREE
- CONIFEROUS TREE
- SHRUB/BUSH
- OHE – OVERHEAD ELECTRIC
- UE – UNDERGROUND ELECTRIC
- EMH – ELECTRIC MANHOLE
- POWER POLE
- GUY WIRE
- LIGHT POLE
- LAMP POLE
- SPOT LIGHT
- TRANSFORMER
- TRAFFIC SIGNAL
- PEDESTRIAN WALK SIGNAL
- OHT – OVERHEAD TELEPHONE
- T – UNDERGROUND TELEPHONE
- THH – TELEPHONE MANHOLE
- FO – FIBER OPTIC CABLE
- CTV – CABLE TELEVISION
- MH – MANHOLE
- SMH – SANITARY MANHOLE
- S – SANITARY SEWER
- DMH – STORM DRAIN MANHOLE
- D – STORM SEWER
- C.E. – COVER ELEVATION (NORTH RIM U.N.O.)
- I.E. – INVERT ELEVATION
- F.L. – FLOW LINE (NOT INVERT)
- WMH – WATER MANHOLE
- WATER
- WV – WATER VALVE
- FIRE HYDRANT
- WATER SHUTOFF
- POST INDICATOR VALVE
- GAS
- GV – GAS VALVE
- GMH – GAS MANHOLE

LAND SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS LAND SURVEYING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED LAND SURVEYOR UNDER THE LAWS OF THE STATE OF IOWA.

MARK E. EHRHART

DATE 3/24/2021 LICENSE NO. 11416
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2021.

PROJECT NO.
EGA211019

NO.	DESCRIPTION	DATE	BY

REVISIONS

EHRHART GRIFFIN & ASSOCIATES
142 West Broadway
Suite 136
Council Bluffs, IA 51503
712 / 256-5248

- ENGINEERING
- PLANNING
- LAND SURVEYING

VALLEY VIEW PARK
COUNCIL BLUFFS
FRANKLIN AVE & MOSQUITO CREEK
COUNCIL BLUFFS, IOWA

DATE: 3/19/2021
DESIGNED BY:
DRAWN BY: JHA
CHECKED BY: SRB
CREW: SLH

LICENSED LAND SURVEYOR
MARK E. EHRHART
11416 LS
IOWA

SHEET NO.
1 OF 1

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
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OMAHA, NE 68102
PH: (402) 973-9908
www.thinkconfluence.com

MECHANICAL ENGINEER
ALVINE ENGINEERING
1201 CASS STREET
OMAHA, NE 68102
PH: (402) 346-7007
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VALLEY VIEW DOG PARK, PHASE II

CITY OF COUNCIL BLUFFS
COUNCIL BLUFFS, IOWA
CITY PROJECT NO. R-23-13

ISSUE SCHEDULE

ISSUE	DATE	DESCRIPTION

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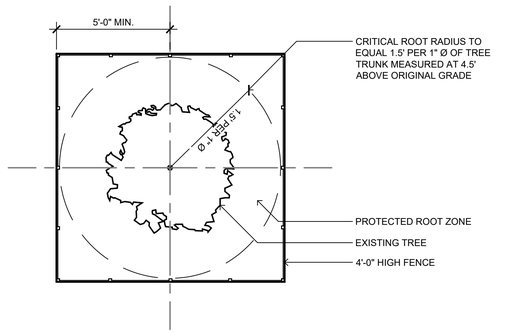
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EXISTING SURVEY

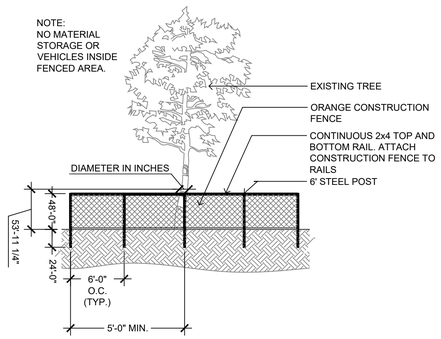
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C1.0

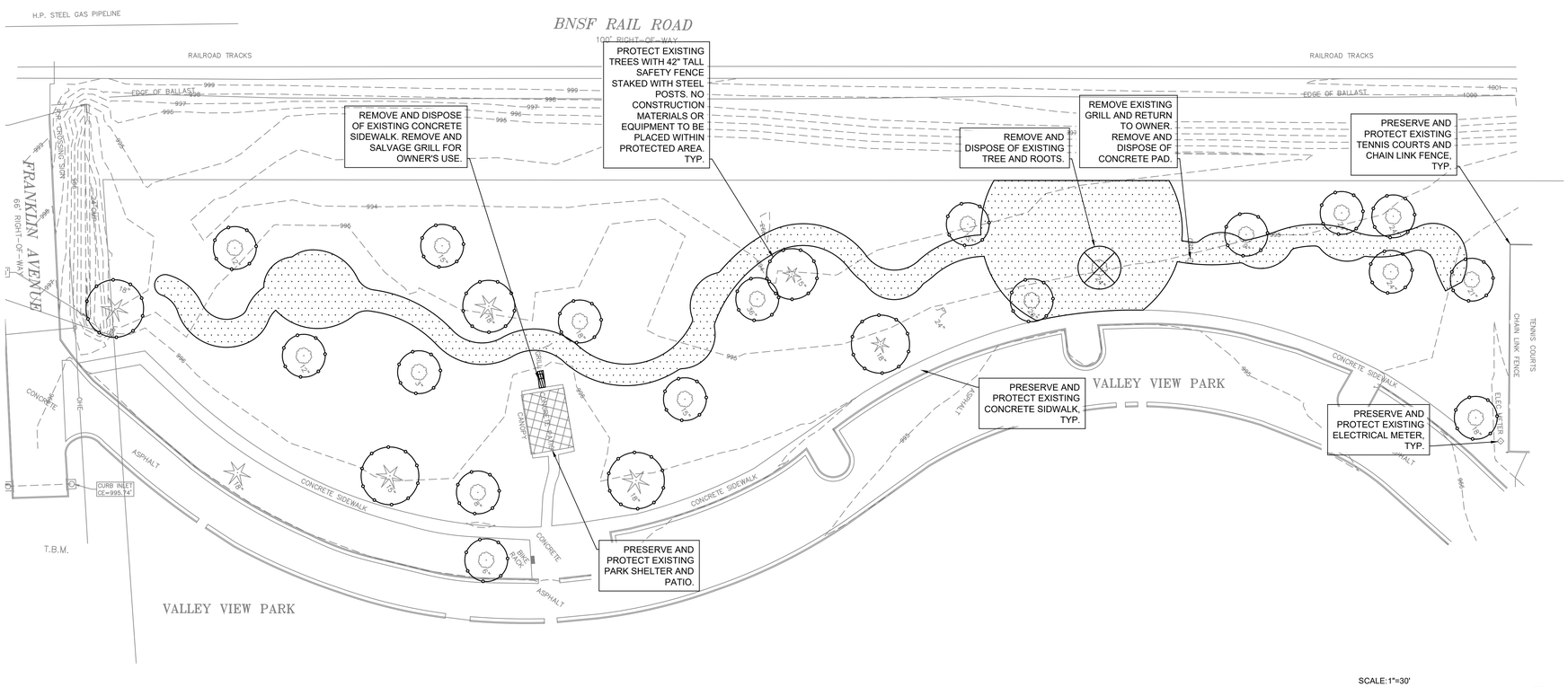
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02 L000 PLAN: TREE PLANTING, TYP. SCALE: NTS



03 L000 SECTION: TREE PLANTING, TYP. SCALE: NTS



01 L000 SITE DEMOLITION PLAN

SCALE: 1"=30'
0' 15' 30' 60'

DEMOLITION GENERAL NOTES

A. PRIOR TO ANY EXCAVATION AT THE SITE, CONTRACTOR SHALL CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANY REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS AND DEPTHS. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT. REPORT ANY DAMAGE TO EXISTING UTILITIES PRIOR TO REPAIR. DAMAGE TO UTILITIES AND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER OF THE UTILITY.

B. FIELD VERIFY EXISTING GRADES AND LOCATIONS OF EXISTING UTILITIES, CONDUIT, LINES, POLES, TREES, PAVING, BUILDING AND OTHER SITE STRUCTURES PRIOR TO DEMOLITION OR CONSTRUCTION AND IMMEDIATELY INFORM THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. THE CONTRACTOR SHALL REPORT TO THE OWNER ANY DAMAGE TO OWNER'S PROPERTY PRIOR TO REPAIR.

C. PROTECT ALL ITEMS WITHIN CONTRACT LIMITS NOT INDICATED TO BE REMOVED. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

D. CONTACT THE ENGINEER PRIOR TO REMOVING ANY PLANT MATERIAL NOT INDICATED TO BE PROTECTED OR REMOVED.

E. CONTRACTOR TO PROVIDE ADEQUATE BARRICADES AND TRAFFIC CONTROL. COMPLY WITH REQUIREMENTS OF LOCAL JURISDICTION.

F. CONTRACTOR SHALL SAW CUT ALL ASPHALT OR CONCRETE TO BE REMOVED TO THE NEAREST CONTROL JOINT WHERE PRACTICAL.

G. PROTECT ALL ITEMS WITHIN CONTRACT LIMITS NOT INDICATED TO BE REMOVED. NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

HATCH KEY:

EXISTING HARDSCAPE REMOVAL

GRADING EXTENTS & PLANT REMOVAL AREA

SYMBOL KEY:

REMOVE AND DISPOSE OF EXISTING TREE

TREE PROTECTION FENCE; RE: 02, 03/L000

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LANDSCAPE ARCHITECT
CONFLUENCE
1111 N 13TH STREET, STUDIO 204
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MECHANICAL ENGINEER
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VALLEY VIEW DOG PARK, PHASE II

CITY OF COUNCIL BLUFFS
COUNCIL BLUFFS, IOWA
CITY PROJECT NO. R-23-13

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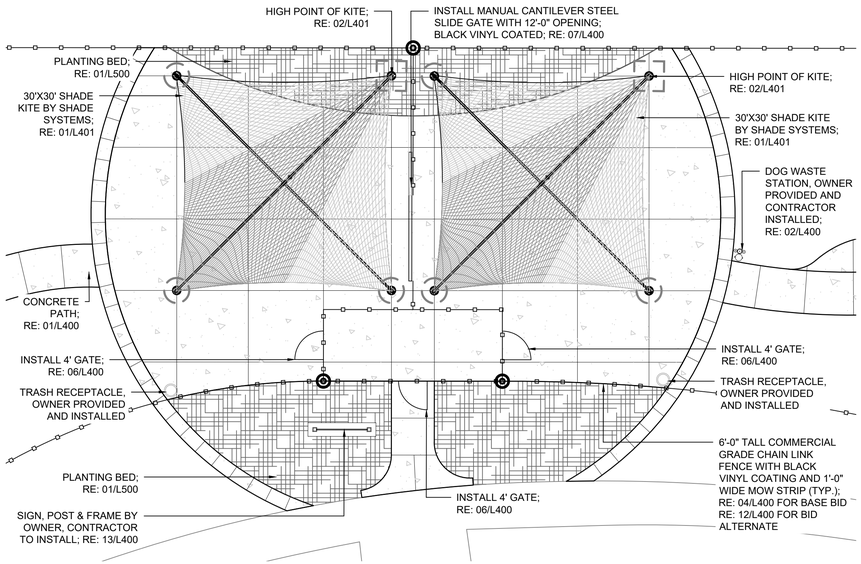
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DEMOLITION PLAN

CONFLUENCE PROJECT # 21033

L000

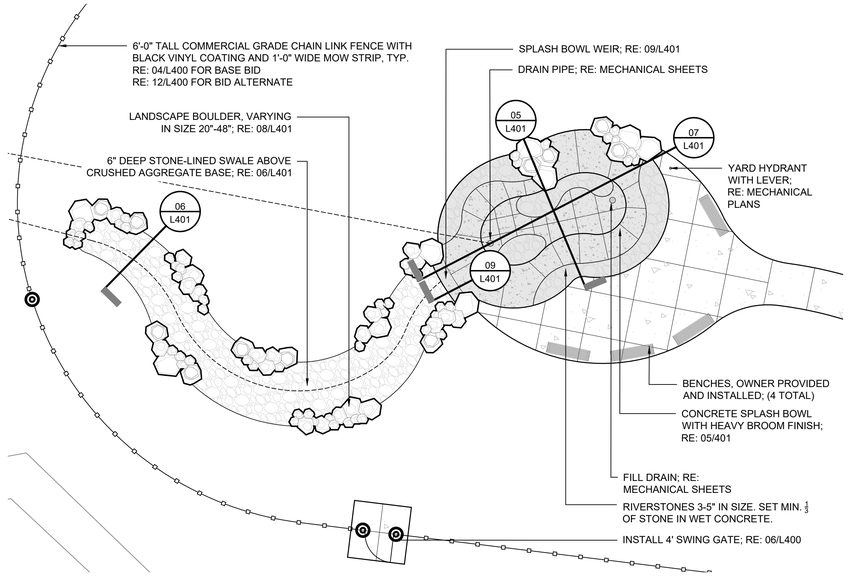
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02 L100 ENTRANCE PLAZA ENLARGEMENT

SCALE: 1"=10'

0' 5' 10' 20'



03 L100 WATER PLAY ENLARGEMENT

SCALE: 1"=10'

0' 5' 10' 20'

SITE LAYOUT NOTES

A. WHEN CONTROL POINTS ARE PROVIDED THE CONTRACTOR SHALL VERIFY CONTROL POINTS PRIOR TO CONSTRUCTION.

B. ALL RAMPS AND CURB RAMPS SHALL COMPLY WITH FEDERAL AND LOCAL ACCESSIBILITY STANDARDS.

C. CONTRACTOR TO SUPPLY AND INSTALL ALL NECESSARY SLEEVES UNDER PAVING AND WALKS. COORDINATE LOCATIONS WITH GENERAL CONTRACTOR.

D. SITE PLAN SHOWS LAYOUT OF CONTROL JOINTS. UNLESS NOTED OTHERWISE EXPANSION JOINTS SHALL BE PLACED AT A MAXIMUM OF 35' O.C. AND ADJACENT TO FIXED VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDINGS.

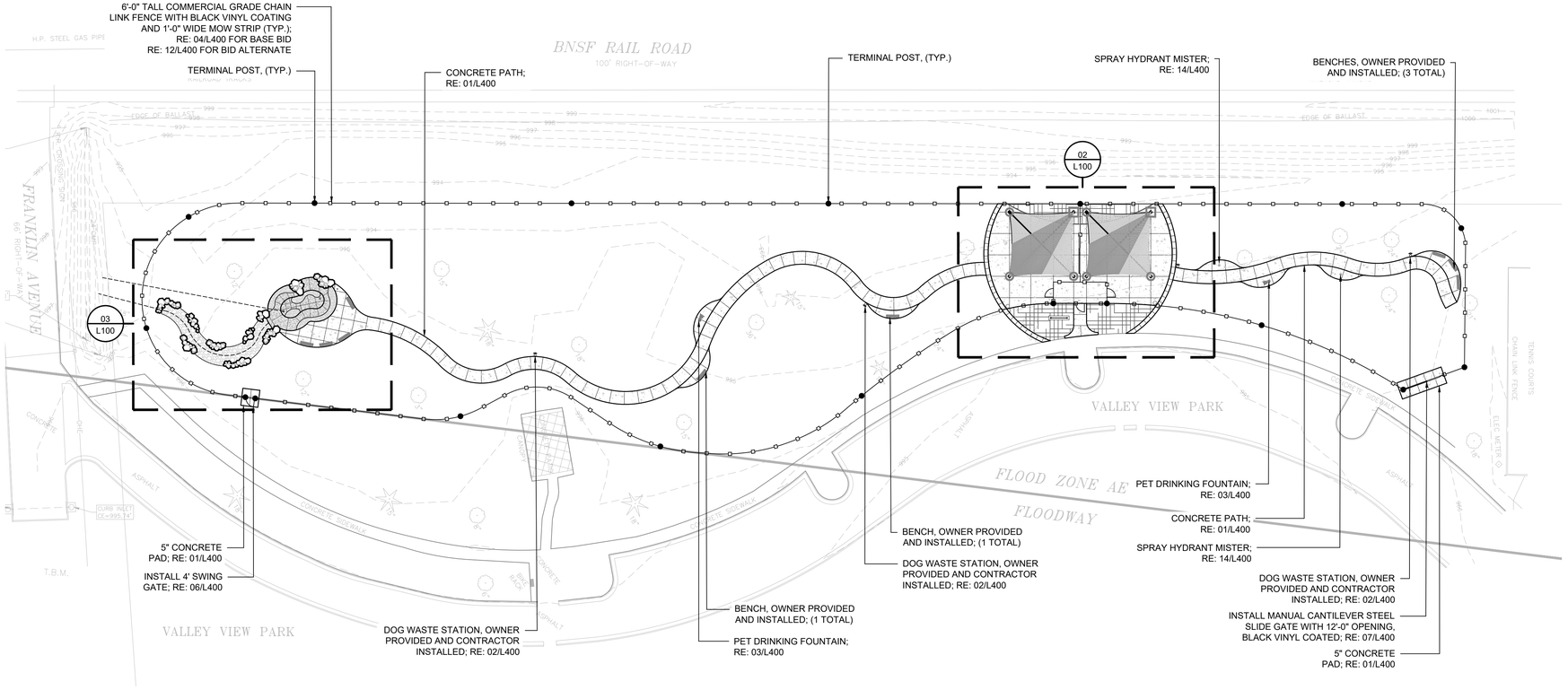
J. FENCE SHALL BE BLACK VINYL COATED CHAIN LINK FENCE WITH TOP RAIL. FENCE POSTS WILL BE SET MAXIMUM 10' ON CENTER. WALK GATES WILL BE HUNG USING BULLDOG HINGES WITH A FORKLATCH. TERMINAL POSTS, GATE POSTS, LINE POSTS AND TOP RAIL WILL BE SCHEDULE 40.

HATCH LEGEND:

- 5" CONCRETE; RE: 01/L400
- PLANTING BED; RE: 01/L500
- CONCRETE SPLASH BOWL, HEAVY BROOM FINISH; RE: 05, 07/L401
- RIVERSTONES 3-5" IN SIZE, SET MIN. 1/3 OF STONE IN WET CONCRETE

BOULDER LEGEND:

SMALL BOULDER:	1.50' X 1.50' X 1.50' (+/- 6")
MEDIUM BOULDER:	2.25' X 2.25' X 2.25' (+/- 6")
LARGE BOULDER:	3.00' X 3.00' X 3.00' (+/- 6")
X-LARGE BOULDER:	4.00' X 4.00' X 4.00' (+/- 6")



01 L100 KEYNOTE PLAN

SCALE: 1"=30'

0' 15' 30' 60'

CONFLUENCE

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VALLEY VIEW DOG PARK, PHASE II

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KEYNOTE PLAN

CONFLUENCE PROJECT # 21033

L100

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SITE LAYOUT NOTES

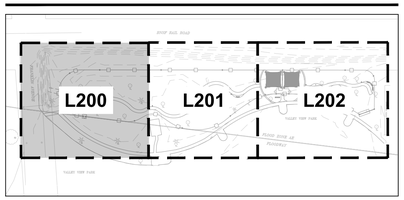
A. BOULDER LOCATIONS MAY ADJUST IN FIELD. PAYMENT FOR CONCRETE WILL NOT CHANGE UNLESS SUBSTANTIAL DIFFERENCES OCCUR FROM DESIGN INTENT.

B. VERIFY BOULDER GROUPING LOCATIONS WITH LANDSCAPE ARCHITECT.

MATCHLINE: L201

MATCHLINE: L201

KEY MAP



01 L200 SITE LAYOUT PLAN ENLARGEMENT

SCALE: 1"=10'

0' 5' 10' 20'

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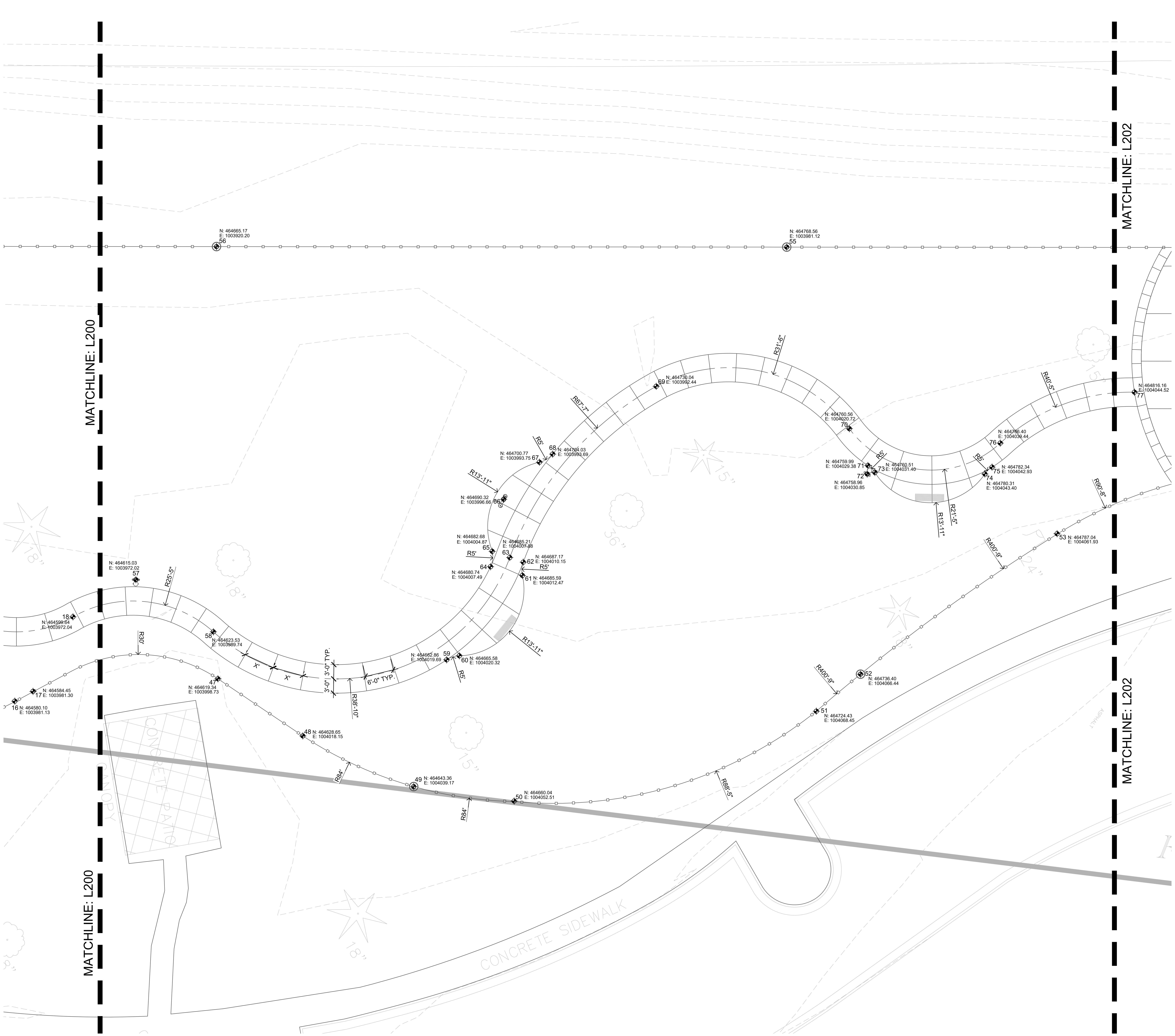
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LAYOUT PLAN ENLARGEMENT

CONFLUENCE PROJECT # 21033

L200

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01
L201

SITE LAYOUT PLAN ENLARGEMENT

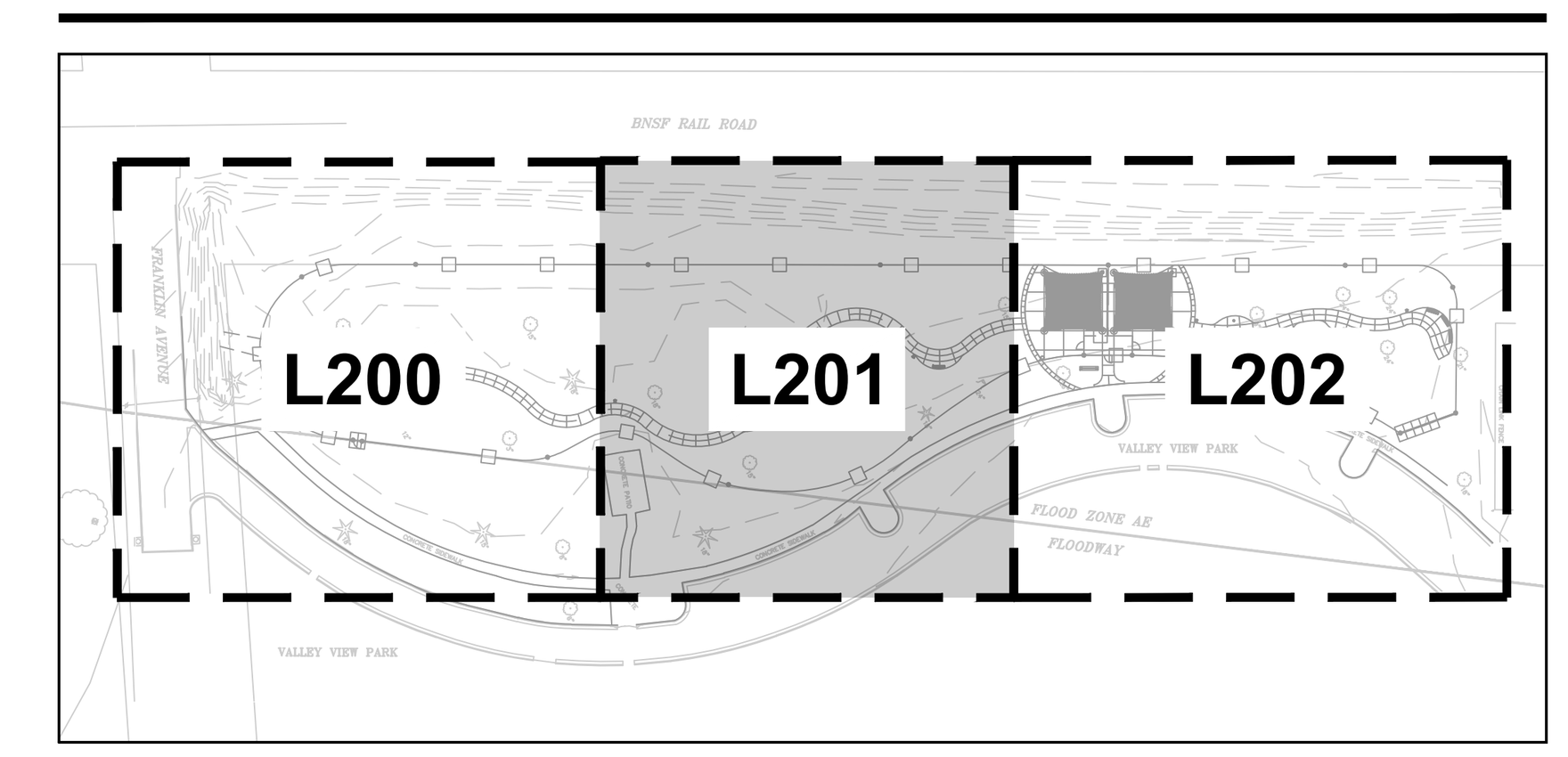
SCALE: 1"=10'
0' 5' 10' 20'

SITE LAYOUT NOTES

A. BOULDER LOCATIONS MAY ADJUST IN FIELD. PAYMENT FOR CONCRETE WILL NOT CHANGE UNLESS SUBSTANTIAL DIFFERENCES OCCUR FROM DESIGN INTENT.

B. VERIFY BOULDER GROUPING LOCATIONS WITH LANDSCAPE ARCHITECT.

KEY MAP



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LAYOUT PLAN ENLARGEMENT

CONFLUENCE PROJECT # 21033

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MATCHLINE: L201

MATCHLINE: L201

VALLEY VIEW PARK

FLOOD ZONE AE

FLOODWAY

EDGE OF BALLAST

CONCRETE SIDEWALK

ASPHALT

ELEC METER

18"

R65'-2"

R43'

R45'

R20'

R5'

R13'-11"

R47'-10"

R88'-4"

R254'-8"

R13'-11"

R38'-5"

R13'-5"

R12'-7"

R19'-10"

R44'-8"

10'-0" TYP.

12'-0"

4'-0"

3'-0"

3'-7" TYP.

2.00' TYP.

3.00' TYP.

4'-5" TYP.

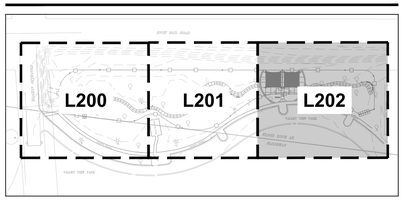
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N: 465007.78 E: 1004122.06 — 106
N: 465017.54 E: 1004140.89 — 98
N: 465014.75 E: 1004149.59 — 96
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N: 464840.56 E: 1004066.00 — 88
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N: 464846.09 E: 1004097.72 — 94
N: 464832.25 E: 1004090.43 — 83
N: 464831.87 E: 1004091.36 — 82

SITE LAYOUT NOTES

A. BOULDER LOCATIONS MAY ADJUST IN FIELD. PAYMENT FOR CONCRETE WILL NOT CHANGE UNLESS SUBSTANTIAL DIFFERENCES OCCUR FROM DESIGN INTENT.

B. VERIFY BOULDER GROUPING LOCATIONS WITH LANDSCAPE ARCHITECT.

KEY MAP



01 L202 SITE LAYOUT PLAN ENLARGEMENT

SCALE: 1"=10'
0' 5' 10' 20'

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PH: (402) 973-9908
www.thinkconfluence.com

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OMAHA, NE 68102
PH: (402) 346-7007
www.alvine.com

VALLEY VIEW DOG PARK, PHASE II

CITY OF COUNCIL BLUFFS
COUNCIL BLUFFS, IOWA
CITY PROJECT NO. R-23-13

ISSUE SCHEDULE

ISSUE	DATE	DESCRIPTION

ISSUED FOR

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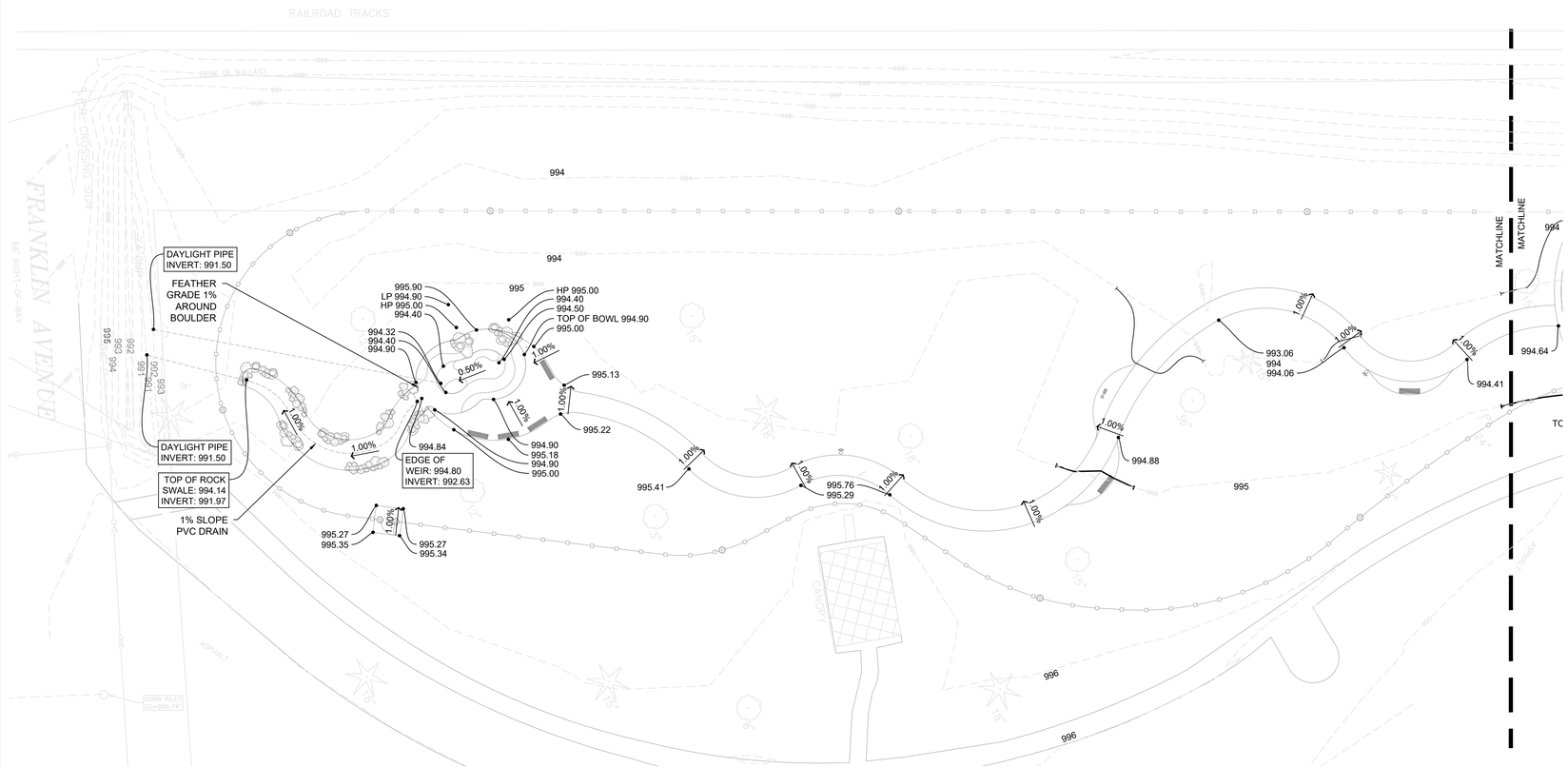
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LAYOUT PLAN ENLARGEMENT

CONFLUENCE PROJECT # 21033

L202

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02 L300 SITE GRADING PLAN

SCALE: 1"=20'

0' 10' 20' 40'

SITE GRADING NOTES

A. THE INTENT OF THIS GRADING IS TO DO A MINIMAL AMOUNT OF DISTURBANCE NECESSARY TO GET A WALKWAY THAT IS COMFORTABLE AND GENERALLY LEVEL.

B. ALL SPOT ELEVATIONS ARE AT THE TOP OF FINISHED SURFACES. SPOT ELEVATIONS SHOWN IN PARKING ARE AT THE BOTTOM OF CURB. ADD 6" TO COMPUTE TOP OF CURB ELEVATION.

C. CONTRACTOR TO VERIFY ALL SPOT ELEVATIONS FOR POSITIVE DRAINAGE BEFORE INSTALLATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE SURFACE DRAINAGE IN ALL AREAS, UNLESS OTHERWISE NOTED. ALL NEWLY GRADED GROUND SURFACES SHALL BE FINISHED TO UNIFORM GRADES AND SLOPED IN SUCH A MANNER TO BE FREE OF DEPRESSIONS THAT CAUSE AREAS OF STANDING WATER. THE CONTRACTOR SHALL REPORT ANY CONFLICTS WITH THIS REQUIREMENT TO THE LANDSCAPE ARCHITECT FOR RESOLUTION PRIOR TO FINAL GRADING OPERATIONS.

D. WALK CROSS SLOPE MAY NOT EXCEED 2%. RUNNING SLOPE MAY NOT EXCEED 5%. RUNNING SLOPE FOR RAMPS MAY NOT EXCEED 1:12 WITH LANDINGS THAT DO NOT EXCEED 2% IN ANY DIRECTION.

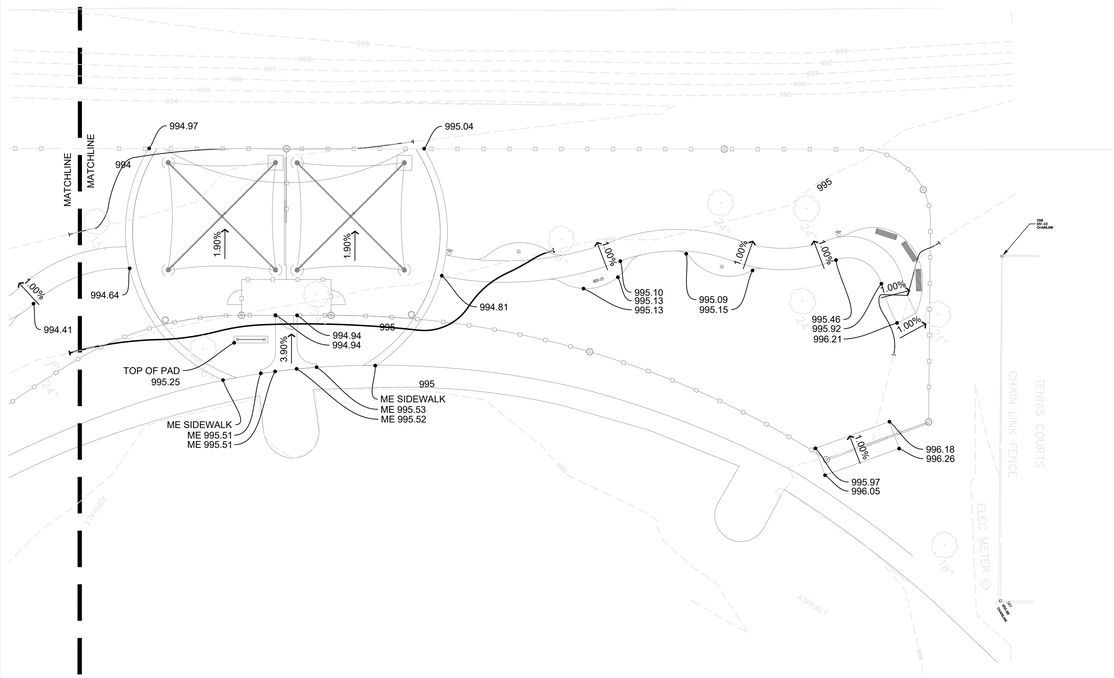
E. WHERE PROPOSED GRADES MEET EXISTING, BLEND GRADES TO PROVIDE A SMOOTH TRANSITION BETWEEN THE NEW WORK AND EXISTING WORK. PONDING AT JOINTS WILL NOT BE ACCEPTED.

F. SEE SPECIFICATIONS FOR MINIMUM DEPTH OF TOPSOIL FOR ALL LAWN AREAS AND PLANTING BEDS.

G. CONTRACTOR TO FIELD ADJUST ALL EXISTING SITE UTILITIES TO NEW FINISHED GRADES. EXISTING UTILITIES INCLUDE, BUT ARE NOT LIMITED TO, FIRE HYDRANTS, MANHOLE RIMS, INLETS, WATER VALVES, AND LIGHT BASES.

H. SILT FENCE AND INLET PROTECTION SHALL BE MAINTAINED UNTIL ESTABLISHMENT OF PERMANENT GROUND COVER.

I. SOD ALL DISTURBED AREAS WITH TYPE 1 SEED (PERMANENT LAWN MIXTURE), RE: SUDAS.



01 L300 SITE GRADING PLAN

SCALE: 1"=20'

0' 10' 20' 40'

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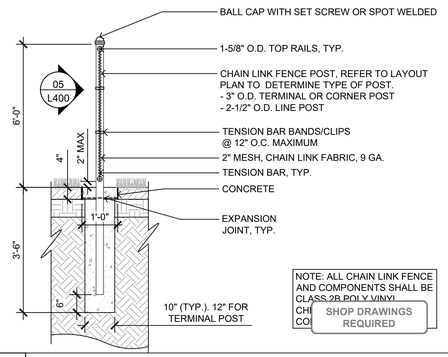
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GRADING PLAN

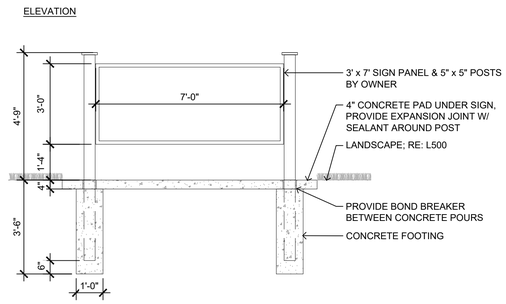
CONFLUENCE PROJECT # 21033

L300

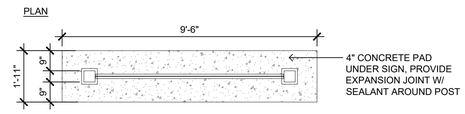
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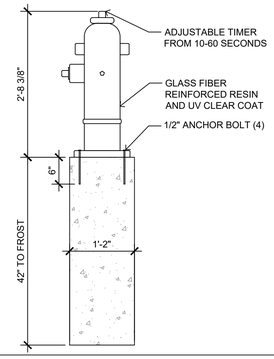
12 L400 ALTERNATE: FENCE WITH CONC. MOW STRIP 1/2" = 1'-0"



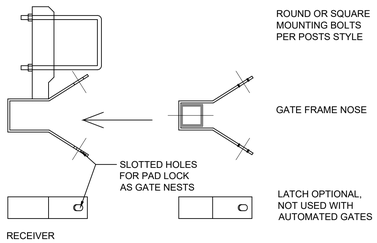
13 L400 DETAIL: PROJECT SIGN BY OWNER 1/2" = 1'-0"



NOTES:
1. NO EXPOSED FASTENERS. OWNER SHALL BE ABLE TO REMOVE AND REPLACE SIGN PANEL IF NECESSARY.
2. VERIFY LOCATION IN FIELD PRIOR TO INSTALLATION.
3. VERIFY LOCATIONS FOR LEVEL INSTALLATION, IF ON SLOPE EXTEND DOWNHILL LEG.
4. SIGN POST, FRAME, AND PANEL TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.

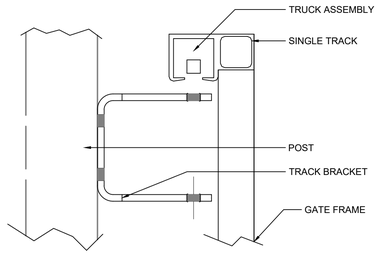


14 L400 DETAIL: SPRAY HYDRANT 3/4" = 1'-0"



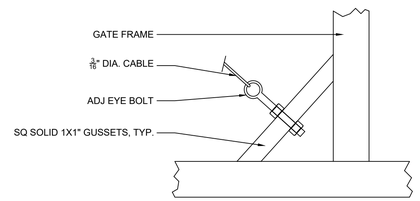
SHOP DRAWINGS REQUIRED

08 L400 GATE RECIEVER ENLARGEMENT 3" = 1'-0"



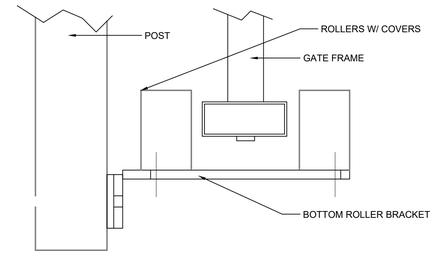
SHOP DRAWINGS REQUIRED

09 L400 SINGLE TRACK ENLARGEMENT 3" = 1'-0"



SHOP DRAWINGS REQUIRED

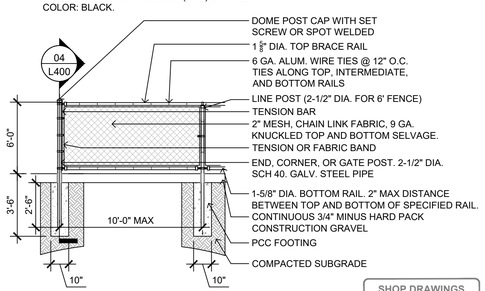
10 L400 GUSSET ENLARGEMENT 3" = 1'-0"



SHOP DRAWINGS REQUIRED

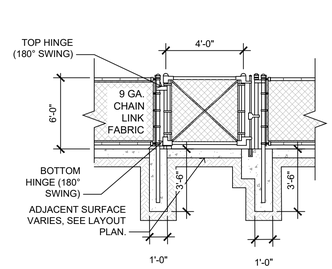
11 L400 BOTTOM ROLLER ENLARGEMENT 3" = 1'-0"

NOTE: ALL CHAIN LINK FENCE AND COMPONENTS SHALL BE 2B POLY VINYL CHLORIDE (PVC) COATED.
COLOR: BLACK.



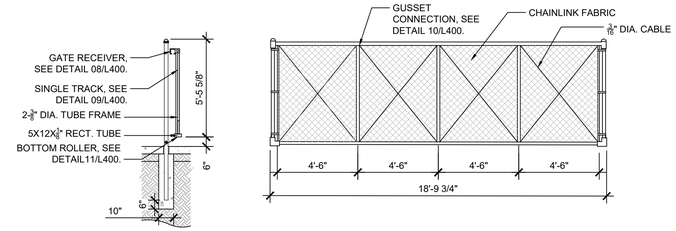
SHOP DRAWINGS REQUIRED

05 L400 ELEVATION: CHAIN LINK FENCE 1/4" = 1'-0"



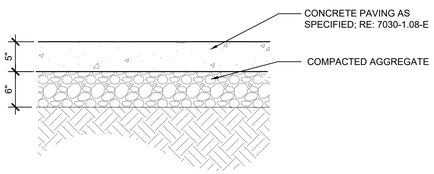
SHOP DRAWINGS REQUIRED

06 L400 ELEVATION: 4' SWINGING FENCE GATE 1/4" = 1'-0"

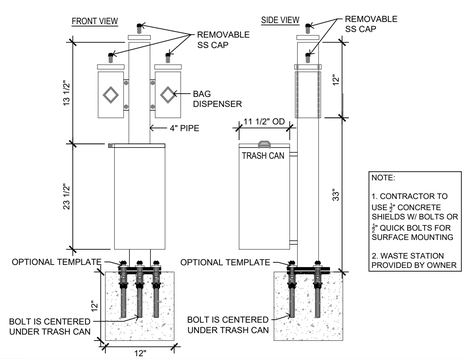


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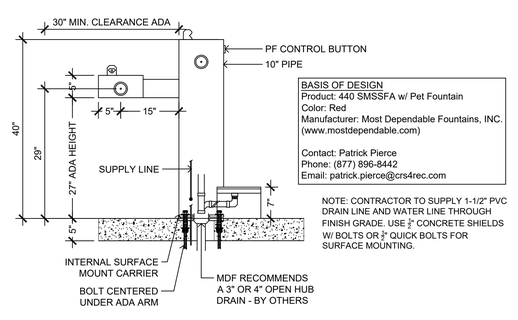
07 L400 ELEVATION: CANTILEVERED SLIDING GATE (MANUALLY OPERATED) 1/4" = 1'-0"



01 L400 SECTION: CONCRETE PAVEMENT, TYP. N.T.S



02 L400 SECTION: CRUSHED AGGREGATE, TYP. N.T.S

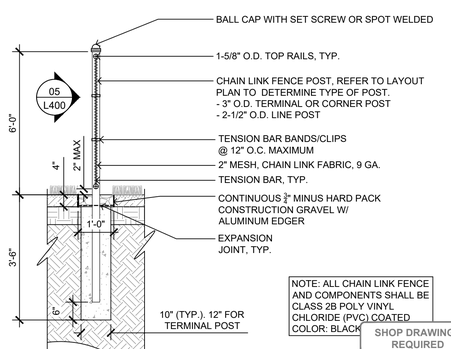


BASIS OF DESIGN
Product: 440 SMSSFA w/ Pet Fountain
Color: Red
Manufacturer: Most Dependable Fountains, INC. (www.mostdependable.com)

Contact: Patrick Pierce
Phone: (877) 896-8442
Email: patrick.pierce@crs4rec.com

NOTE: CONTRACTOR TO SUPPLY 1-1/2" PVC DRAIN LINE AND WATER LINE THROUGH FINISH GRADE. USE 1/2" CONCRETE SHIELDS W/ BOLTS OR 1/2" QUICK BOLTS FOR SURFACE MOUNTING.

03 L400 SECTION: PET DRINKING FOUNTAIN 3/4" = 1'-0"



04 L400 SECTION: FENCE WITH GRAVEL MOW STRIP 1/2" = 1'-0"

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VALLEY VIEW DOG PARK, PHASE II

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COUNCIL BLUFFS, IOWA
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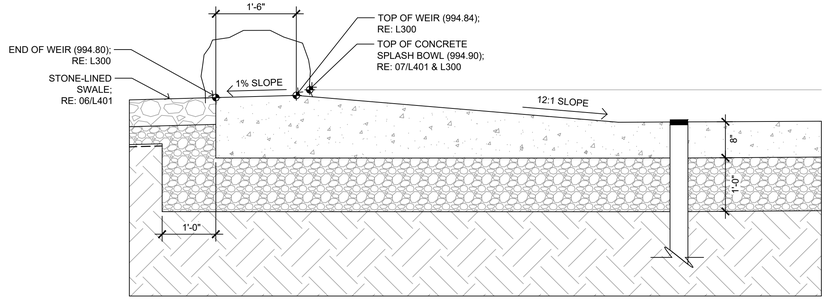
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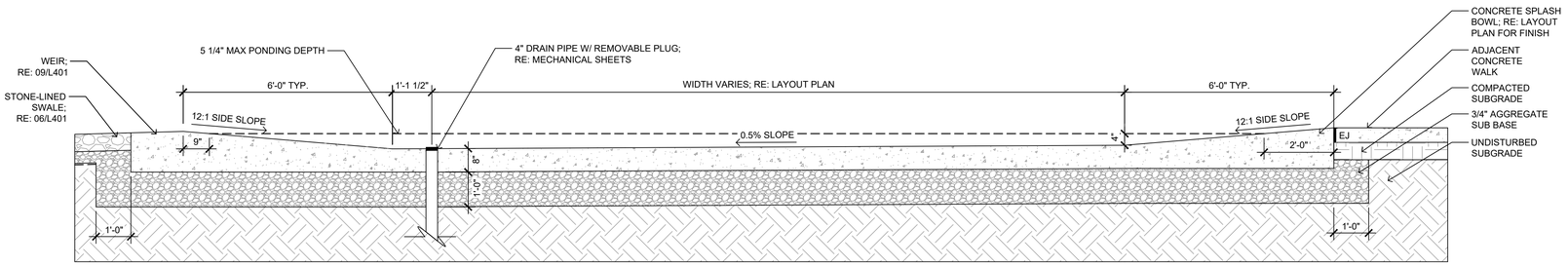
CONFLUENCE PROJECT # 21033

L400

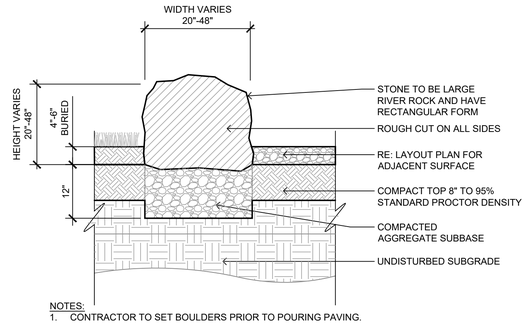
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09 L401 SECTION: SPLASH BOWL WEIR 3/4" = 1'-0"

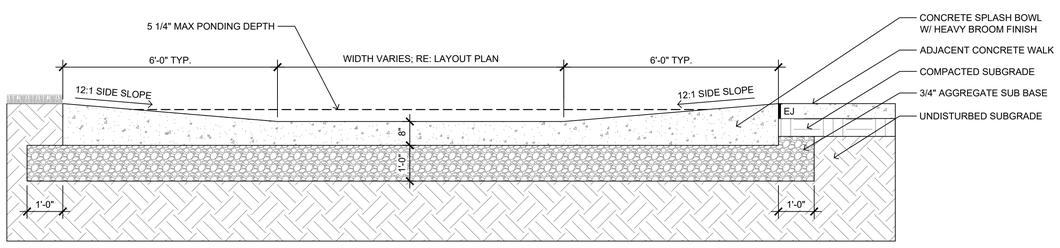


07 L401 SECTION: CONCRETE SPLASH BOWL 1/2" = 1'-0"

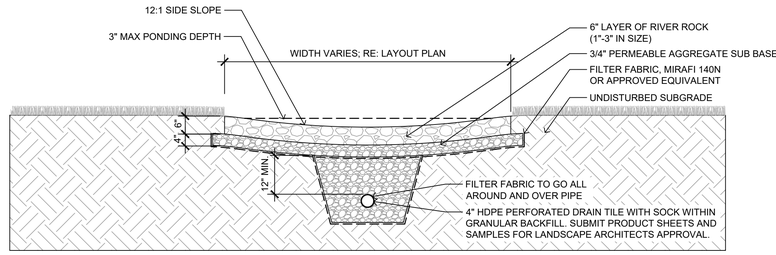


NOTES:
1. CONTRACTOR TO SET BOULDERS PRIOR TO POURING PAVING.

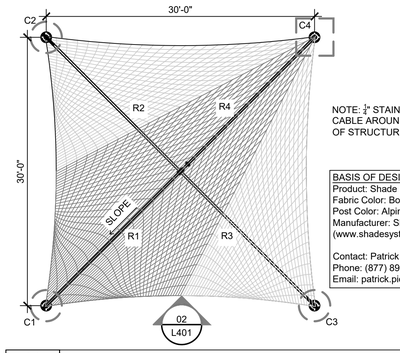
08 L401 SECTION: LANDSCAPE BOULDER 3/4" = 1'-0"



05 L401 SECTION: CONCRETE SPLASH BOWL 1/2" = 1'-0"



06 L401 SECTION: STONE-LINED SWALE N.T.S



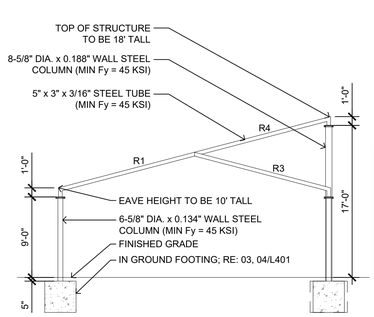
NOTE: $\frac{1}{4}$" STAINLESS STEEL CABLE AROUND PERIMETER OF STRUCTURE

BASIS OF DESIGN
Product: Shade Kite
Fabric Color: Bora Bora Blue/Rivergum Green
Post Color: Alpine White
Manufacturer: Shade Systems (www.shadesystemsinc.com)

Contact: Patrick Pierce
Phone: (877) 896-8442
Email: patrick.pierce@crs4rec.com

SHOP DRAWINGS REQUIRED

01 L401 PLAN: SHADE KITE 1/8" = 1'-0"

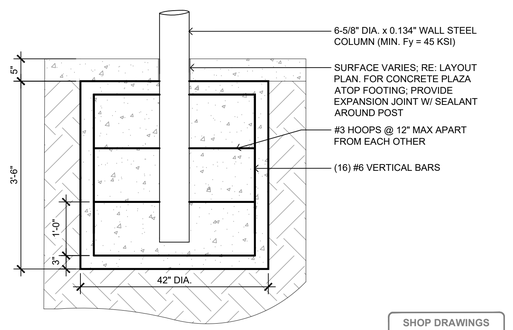


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Contact: Patrick Pierce
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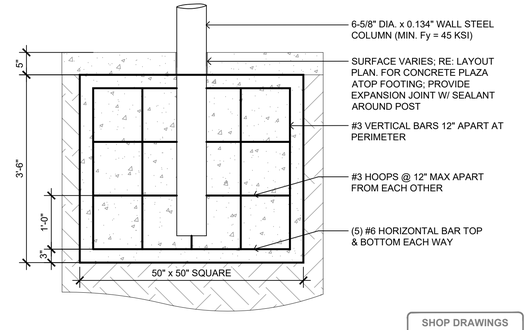
SHOP DRAWINGS REQUIRED

02 L401 ELEVATION: SHADE KITE 1/8" =1'-0"



SHOP DRAWINGS REQUIRED

03 L401 SECTION: FOOTING DETAIL C1, C2, & C3 3/4" = 1'-0"



SHOP DRAWINGS REQUIRED

04 L401 SECTION: FOOTING C4 3/4" = 1'-0"

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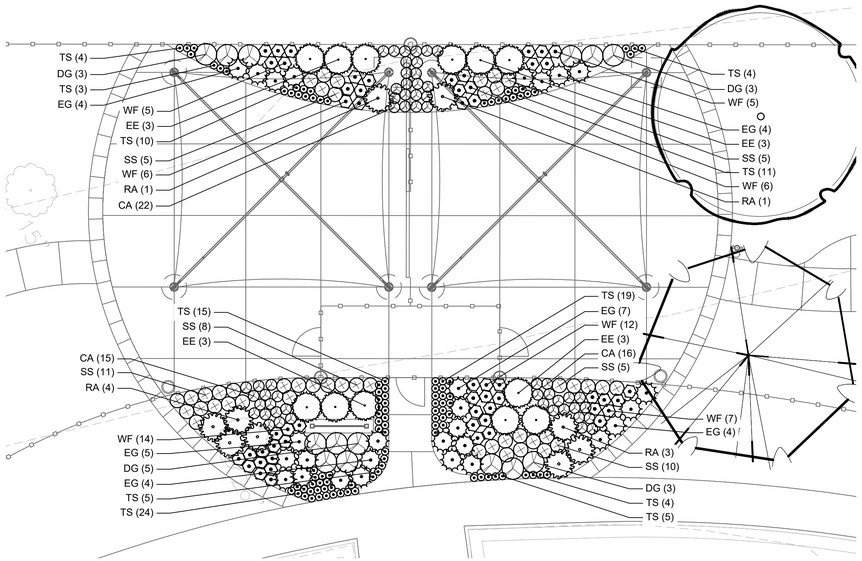
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SITE DETAILS

CONFLUENCE PROJECT # 21033

L401

File Location: N:\1 PROJECTS\2021\21033_Valley View Dog Park\21033_WORKING\AUTOCAD\SHEETS\L400 21033 SITE DETAILS / SAVE DATE: 6/17/2022 9:50 AM BY: knimic / PLOT DATE: 6/17/2022 12:14 PM BY: Kaitlyn Nimic



02 L500 LANDSCAPE PLAN ENLARGEMENT

SCALE: 1"=10'

0' 5' 10' 20'

PLANT SCHEDULE

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING/REMARKS
CANOPY TREES						
CS	2	Catalpa speciosa	CATALPA	2" CAL	B&B	
TT	2	Tilia tomentosa	SILVER LINDEN	2" CAL	B&B	
BL	2	Betula lenta	SWEET BIRCH	2" CAL	B&B	
DECIDUOUS SHRUBS						
EE	12	Euonymus fortunei 'Emerald Gaiety'	EMERALD GAIETY WINTERCREEPER	#3	CONT.	4'-0" O.C.
EG	28	Euonymus fortunei 'Gold Splash'	GOLD SPLASH WINTERCREEPER	#3	CONT.	3'-0" O.C.
SS	44	Syringa x 'SMNJRPI' PP29802	LILAC BLOOMERANG DWARF PINK	#3	CONT.	2'-0" O.C.
WF	55	Weigela florida 'Bokraspiwi' PP23781	SPILLED WINE WEIGELA	#3	CONT.	2'-0" O.C.
RA	9	Rhus aromatica 'Gro-Low'	GRO-LOW FRAGRANT SUMAC	#3	CONT.	4'-0" O.C.
DG	14	Deutzia gracilis 'Nikko'	SLENDER DEUTZIA NIKKO	#3	CONT.	3'-0" O.C.
ORNAMENTAL GRASSES						
CA	53	Calamagrostis x acutiflora 'Karl Foerster'	KARL FOERSTER REED GRASS	#1	CONT.	1'-6" O.C.
GROUNDCOVER						
TS	104	Thymus serpyllum 'Elfin'	ELFIN CREEPING THYME	4"	POT.	1'-0" O.C.

PLANTING GENERAL NOTES

A. PLANT QUANTITIES IN PLANT SCHEDULE ARE FOR CONVENIENCE ONLY AND ARE NOT GUARANTEED. QUANTITIES ON PLAN WILL PREVAIL IF DISCREPANCIES OCCUR.

B. THE CONTRACTOR SHALL SHOW PROOF OF PROCUREMENT, SOURCES, QUANTITIES AND VARIETIES FOR ALL SHRUBS, PERENNIALS, ORNAMENTAL GRASSES, AND ANNUALS WITHIN 21 DAYS FOLLOWING THE AWARD OF CONTRACT. TIMELY PROCUREMENT OF ALL PLANT MATERIAL IS ESSENTIAL TO THE SUCCESSFUL COMPLETION AND ACCEPTANCE OF THE PROJECT.

C. SUBSTITUTIONS SHALL ONLY BE ALLOWED WHEN THE CONTRACTOR HAS EXHAUSTED ALL SOURCES FOR THE SPECIFIED MATERIAL, AND HAS PROVEN THAT THE SPECIFIED MATERIAL IS NOT AVAILABLE. THE CONTRACTOR MUST PROVIDE NAME AND VARIETY OF SUBSTITUTION TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO TAGGING OR PLANTING. SUBSTITUTIONS SHALL BE NEAREST EQUIVALENT SIZE OF VARIETY OF PLANT HAVING SAME ESSENTIAL CHARACTERISTICS.

D. ALL PLANT MATERIAL SHALL BE NURSERY GROWN, SOUND, HEALTHY, VIGOROUS AND FREE FROM INSECTS, DISEASE AND INJURIES, WITH HABIT OF GROWTH THAT IS NORMAL FOR THE SPECIES. SIZES SHALL BE EQUAL TO OR EXCEEDING SIZES INDICATED ON THE PLANT LIST. KIND, SIZE AND QUALITY OF PLANT MATERIAL SHALL CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1), MOST RECENT EDITION.

E. STAKE OR PLACE ALL PLANTS IN FIELD AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PLANTING.

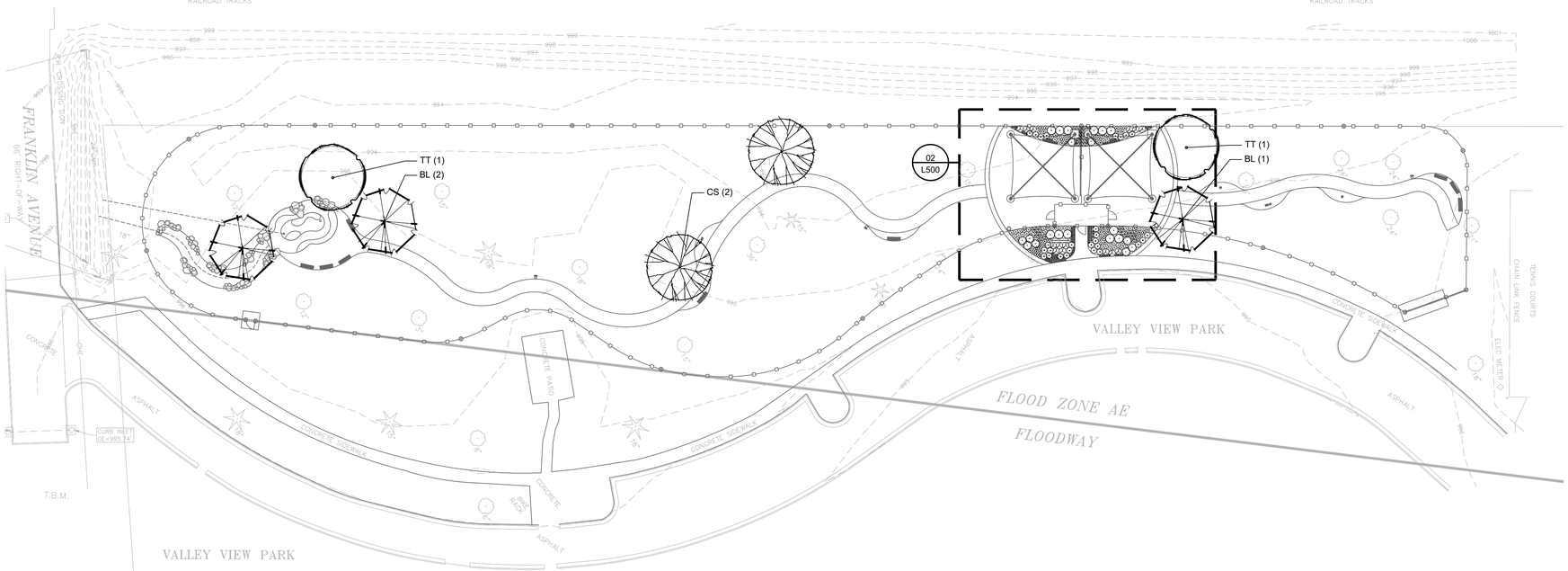
F. PROVIDE A MINIMUM OF 48 HOURS NOTICE FOR APPROVAL OF PLANT LAYOUT AND SAMPLE TREE PLANTINGS.

G. THE CONTRACTOR SHALL REPORT SUBSURFACE SOIL OR DRAINAGE PROBLEMS TO THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.

H. SEED ALL AREAS WITHIN CONTRACT LIMITS, NOT COVERED BY PAVING, BUILDINGS, OR PLANTING BEDS, UNLESS OTHERWISE NOTED.

I. CONTRACTOR SHALL PLACE SHREDDED BARK MULCH AROUND ALL TREES AND IN ALL PLANTING BEDS TO A DEPTH OF 3".

J. SEE SPECIFICATIONS FOR PLANT MAINTENANCE AND WARRANTY REQUIREMENTS.



01 L500 LANDSCAPE PLAN

SCALE: 1"=30'

0' 15' 30' 60'

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LANDSCAPE ARCHITECT
CONFLUENCE
1111 N 13TH STREET, STUDIO 204
OMAHA, NE 68102
PH: (402) 973-9908
www.thinkconfluence.com

MECHANICAL ENGINEER
ALVINE ENGINEERING
1201 CASS STREET
OMAHA, NE 68102
PH: (402) 346-7007
www.alvine.com

VALLEY VIEW DOG PARK, PHASE II

CITY OF COUNCIL BLUFFS
COUNCIL BLUFFS, IOWA
CITY PROJECT NO. R-23-13

ISSUE SCHEDULE

ISSUE	DATE	DESCRIPTION

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LANDSCAPE PLAN

CONFLUENCE PROJECT # 21033

L500

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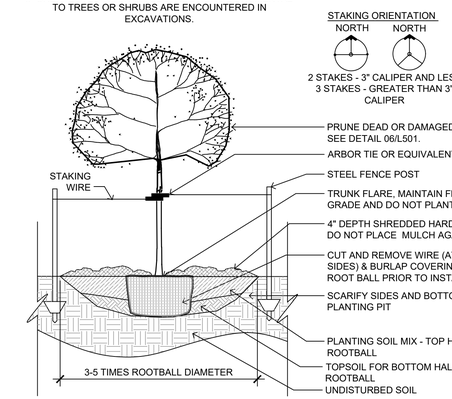
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COUNCIL BLUFFS, IOWA
CITY PROJECT NO. R-23-13

NOTE:
X = DISTANCE SPECIFIED WITHIN PLANT SCHEDULE
Y = DISTANCE 'X' MULTIPLIED BY .866

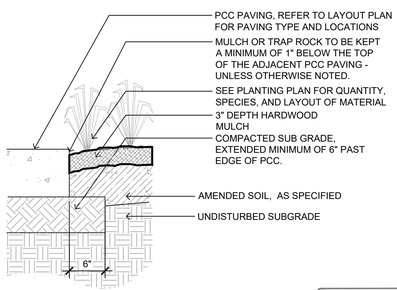
05 L501 GROUNDCOVER PLANTING, TYP. NTS

06 L501 TREE LIMBING, TYP. NTS

NOTE: CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT IF UNEXPECTED ROCK OR OBSTRUCTIONS DETRIMENTAL TO TREES OR SHRUBS ARE ENCOUNTERED IN EXCAVATIONS.

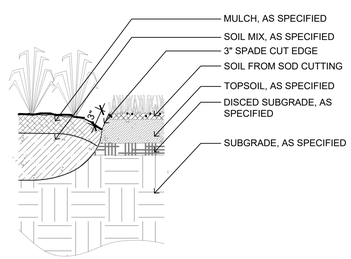


07 L501 TREE PLANTING, TYP. NTS



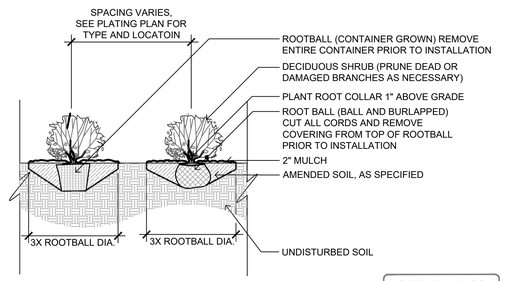
SHOP DRAWINGS REQUIRED

01 L501 LANDSCAPE BED AT PAVING, TYP. NTS



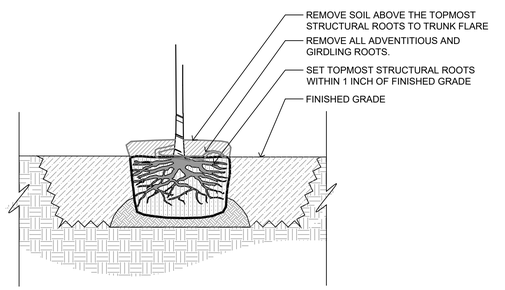
SHOP DRAWINGS REQUIRED

02 L501 SPADED LANDSCAPE EDGE, TYP. NTS



SHOP DRAWINGS REQUIRED

03 L501 SHRUB PLANTING, TYP. NTS



04 L501 ROOTBALL PLANTING, TYP. NTS

ISSUE SCHEDULE

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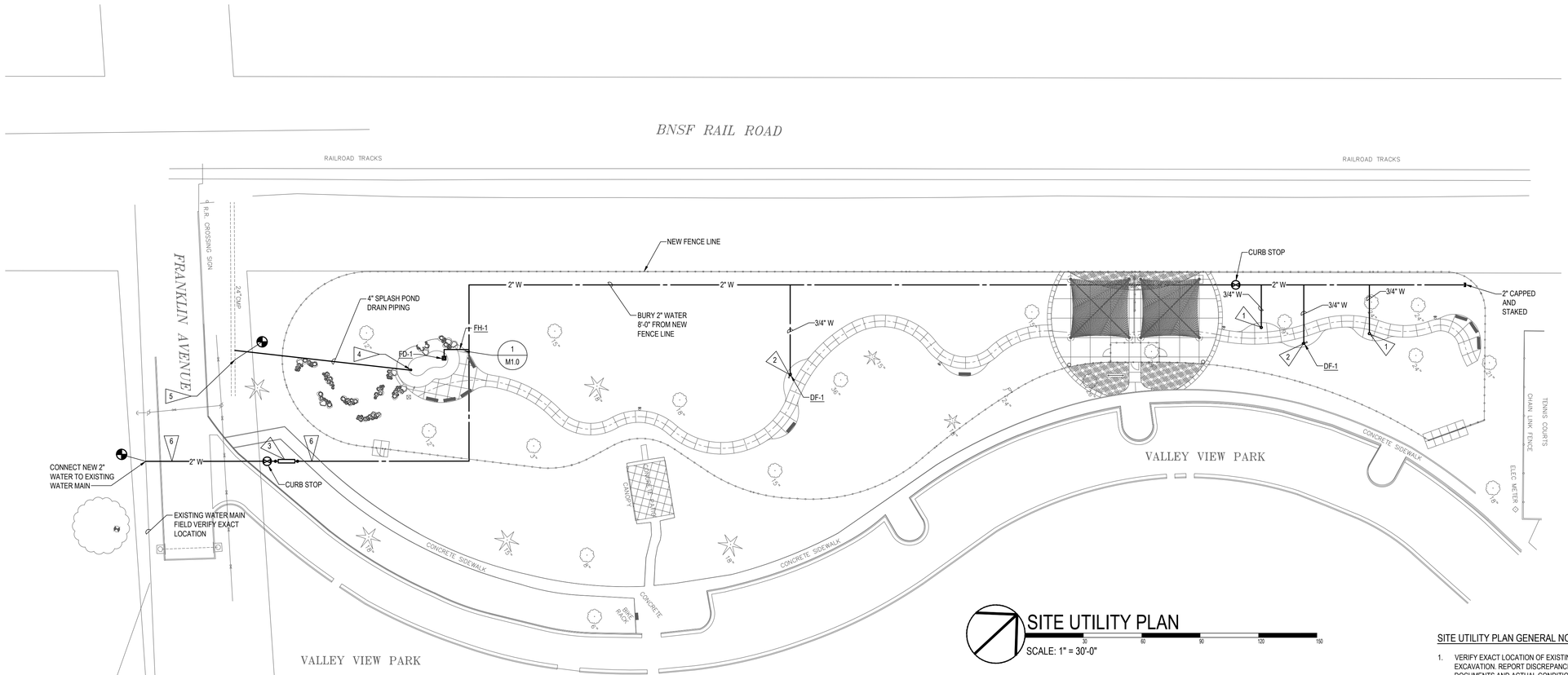
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LANDSCAPE DETAILS

CONFLUENCE PROJECT # 21033

L501

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SITE UTILITY PLAN

SCALE: 1" = 30'-0"

SITE UTILITY PLAN GENERAL NOTES:

1. VERIFY EXACT LOCATION OF EXISTING UTILITIES IN THE FIELD PRIOR TO EXCAVATION. REPORT DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL CONDITIONS PRIOR TO PROCEEDING WITH WORK.
2. ANY UTILITY SHUTDOWN SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER PRIOR TO SHUTDOWN.

FLAG NOTES

1. 3/4" CW UP TO SPRAY HYDRANT MISTER. SPRAY HYDRANT MISTER PROVIDED BY OWNER AND CONTRACTOR INSTALLED.
2. 3/4" CW UP TO DRINKING FOUNTAIN.
3. REDUCED PRESSURE BACKFLOW PREVENTER LOCATED ABOVE GROUND.
4. 4-INCH DRAIN PIPE AT LOW POINT OF SPLASH POND. PROVIDE WITH FLUSH THREADED DRAIN PLUG.
5. 4-INCH SPLASH POND DRAIN PIPE. CONNECT TO EXISTING STORM DRAIN PIPING OR DAYLIGHT INTO SWALE IF THERE IS ADEQUATE SLOPE. .
6. REMOVE AND REPLACE DRIVE AND SIDEWALK AS REQUIRED FOR INSTALLATION OF NEW WATER LINE.

PLUMBING EQUIPMENT AND CONNECTION SCHEDULE

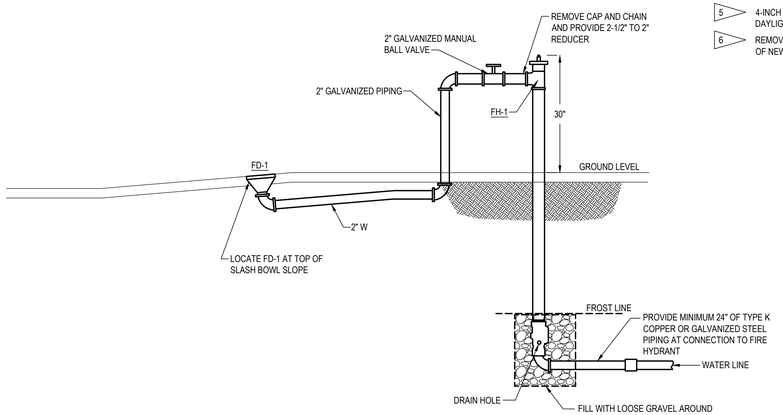
SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS

MARK	DESCRIPTION	BASIS OF DESIGN	CONNECTION DETAILS
FD-1 FILL DRAIN	COMPLY WITH ASME A112.6.3. CAST IRON BODY AND TRAP, AND 10" ROUND, ADJUSTABLE, NICKEL BRONZE STRAINER.	JR SMITH 2010	SIZE: 4" · VENT: - · CW: - · HW: - · REMARKS: . 
FH-1 FILL HYDRANT	AUTOMATIC DRAINING FILL HYDRANT, GALVANIZED STEEL PIPE CASING, STAINLESS STEEL OPERATING ROD, DRAIN HOLE, BRASS MALE HOSE NOZZLE, GRAPHIC PACKING AND ONE PIECE PLUNGER. PROVIDE WITH SIDE INLET VALVE AND 6" OPERATING WRENCH.	KUPFERLE TF-200	WASTE: - · VENT: - · CW: 2" · HW: - · REMARKS: . 

PLUMBING EQUIPMENT AND CONNECTION SCHEDULE

SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS

MARK	DESCRIPTION	BASIS OF DESIGN	CONNECTION DETAILS
DF-1 DRINKING FOUNTAIN	PEDESTAL ONE PIECE WELDED CONSTRUCTION WITH STANDARD 304 SCHEDULE 10 STAINLESS STEEL, BOWL 10 GAUGE ELECTRO-POLISHED STAINLESS STEEL. STAINLESS STEEL ANTI-SQUIRT BUBBLER MOUNTED WITH LOCK NUT AND WASHER TO PREVENT TAMPERING. 304 STAINLESS STEEL MUSHROOM STYLE PUSH BAR. SELF CLOSING CONTROL VALVE WITH NON-CARTRIDGE O-RING VALVE. 1-1/2" SCHEDULE 40 PVC DRAIN, OVER BACKED POWER COATED FINISH, WITH OPTIONAL PET FOUNTAIN.	MDF 440 SM	SIZE: - · VENT: - · CW: 3/4" · HW: - · REMARKS: . 



SPLASH BOWL FILL PIPING DETAIL

NO SCALE

1 / M1.0

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LANDSCAPE ARCHITECT
CONFLUENCE
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OMAHA, NE 68102
PH: (402) 973-9908
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VALLEY VIEW DOG PARK, PHASE II

CITY OF COUNCIL BLUFFS
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CITY PROJECT NO. R-23-13

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SITE UTILITY PLAN

CONFLUENCE PROJECT # 21033

M1.0

SECTION 22 0400

COMMON REQUIREMENTS FOR PLUMBING

PART 1 GENERAL

1.01SUMMARY

A. THIS SECTION DESCRIBES THE GENERAL REQUIREMENTS OF THESE SPECIFICATIONS AND SHALL APPLY TO ALL PHASES OF THE WORK INDICATED OR REQUIRED TO PROVIDE FOR COMPLETE INSTALLATION OF ALL SYSTEMS FOR THIS PROJECT.

B. THIS SECTION INCLUDES BASIC MATERIALS AND METHODS TO COMPLEMENT OTHER DIVISION 22 SECTIONS.

1.02WARRANTIES

A. WARRANT ALL MATERIALS, WORKMANSHIP AND EQUIPMENT AGAINST DEFECTS FOR A PERIOD OF ONE YEAR AFTER THE DATE OF SUBSTANTIAL COMPLETION.

B. CERTAIN EQUIPMENT SHALL BE WARRANTED BEGINNING AT THE TIME OF FINAL ACCEPTANCE OR FOR LONGER PERIODS OF TIME AS SPECIFIED IN THOSE DIVISIONS OF THE PROJECT MANUAL.

C. REPAIR OR REPLACE, AT NO ADDITIONAL COST TO THE OWNER, ANY ITEM WHICH MAY BECOME DEFECTIVE WITHIN THE WARRANT PERIOD.

D. ANY MANUFACTURERS' WARRANTIES CONCERNING ANY ITEM INSTALLED WILL RUN TO THE BENEFIT OF THE OWNER.

E. THE CONTRACTOR AGREES NOT TO VOID OR IMPAIR, OR TO ALLOW SUB-CONTRACTORS TO VOID OR IMPAIR, ANY WARRANTIES REGARDING PRODUCTS OR ITEMS INSTALLED AS PART OF THIS PROJECT.

F. THE REPAIR OF FAULTY WORKMANSHIP SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT.

1.03QUESTIONS OF INTERPRETATION DURING BIDDING PHASE

A. IF QUESTIONS ARISE DURING THE BIDDING PROCESS REGARDING THE MEANING OF ANY PORTION OF THE CONTRACT DOCUMENTS, THE PROSPECTIVE BIDDER SHALL SUBMIT THE QUESTIONS TO THE ARCHITECT/ARCHITECT FOR CLARIFICATION.

B. ANY DEFINITIVE INTERPRETATION OR CLARIFICATION OF THE CONTRACT DOCUMENTS WILL BE PUBLISHED BY ADDENDA, PROPERLY ISSUED TO EACH PERSON HOLDING DOCUMENTS, PRIOR TO THE BID DATE.

C. VERBAL INTERPRETATION OR EXPLANATION NOT ISSUED IN THE FORM OF AN ADDENDUM SHALL NOT BE CONSIDERED PART OF THE BIDDING DOCUMENTS.

D. WHEN SUBMITTING QUESTIONS FOR CLARIFICATION, ADEQUATE TIME FOR ISSUANCE AND DELIVERY OF ADDENDA MUST BE ALLOWED.

E. THE ARCHITECT/ARCHITECT SHALL BE THE SOLE JUDGE REGARDING INTERPRETATIONS OF CONFLICTS WITHIN CONTRACT DOCUMENTS.

1.04CONTRACT DOCUMENT DISCREPANCIES

A. IF ANY AMBIGUITIES SHOULD APPEAR IN THE CONTRACT DOCUMENTS, REQUEST CLARIFICATION FROM THE ARCHITECT/ARCHITECT BEFORE PROCEEDING WITH THE WORK.

B. IF THE CONTRACTOR FAILS TO MAKE SUCH REQUEST, NO EXCUSE WILL THEREAFTER BE ENTERTAINED FOR FAILURE TO CARRY OUT THE WORK IN A MANNER SATISFACTORY TO THE ARCHITECT/ARCHITECT.

C. SHOULD A CONFLICT OCCUR WITHIN THE CONTRACT DOCUMENTS, THE CONTRACTOR IS DEEMED TO HAVE ESTIMATED THE MORE EXPENSIVE WAY OF DOING THE WORK UNLESS A WRITTEN CLARIFICATION FROM THE ARCHITECT/ARCHITECT WAS REQUESTED AND OBTAINED BEFORE SUBMISSION OF PROPOSED METHODS OR MATERIALS.

D. THE ARCHITECT/ARCHITECT SHALL BE THE SOLE JUDGE REGARDING INTERPRETATIONS OF CONFLICTS WITHIN CONTRACT DOCUMENTS.

1.05CODES

A. THE WORK SHALL BE PERFORMED BY PERSONS SKILLED IN THE TRADE INVOLVED AND SHALL BE DONE IN A MANNER CONSISTENT WITH NORMAL INDUSTRY STANDARDS.

B. ALL WORK SHALL CONFORM TO ALL APPLICABLE SECTIONS OF CURRENTLY ADOPTED EDITIONS OF THE FOLLOWING CODES, STANDARDS, AND SPECIFICATIONS:
1. INTERNATIONAL BUILDING CODE (IBC)
2. INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
3. INTERNATIONAL FUEL GAS CODE (IFGC)
4. INTERNATIONAL PLUMBING CODE (IPC)
5. INTERNATIONAL MECHANICAL CODE (IMC)
6. SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION
7. OCCUPATIONAL SAFETY AND HEALTH STANDARDS (OSHA), NATIONAL CONSENSUS STANDARDS AND ESTABLISHED FEDERAL STANDARDS
8. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
9. UNDERWRITERS' LABORATORIES, INC. (UL)
10. ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AND AMENDMENTS.

1.06PERMITS

A. THE CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIREMENTS REGARDING ALL PERMITS, FEES, ETC., AND SHALL COMPLY WITH THEM.

B. ALL PERMITS, LICENSES, INSPECTIONS AND ARRANGEMENTS REQUIRED FOR THE WORK SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE.

C. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL RULES AND REGULATIONS AND ALL CHARGES SHALL BE PAID BY THE CONTRACTOR.

1.07CODE COMPLIANCE

A. WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES. WHERE THE CODES AND DRAWINGS DO NOT AGREE, THE CODE SHALL TAKE PRECEDENCE; HOWEVER, CODE SHALL TAKE PRECEDENCE OVER WHAT IS SHOWN ONLY WHEN IT IS MORE STRINGENT THAN THAT INDICATED. ITEMS THAT ARE ALLOWED BY CODES WHICH ARE LESS STRINGENT THAN THAT INDICATED SHALL NOT BE SUBSTITUTED.

B. DRAWINGS, PLANS, AND SCHEMATICS AND DIAGRAMS INDICATE THE GENERAL LOCATION AND THE ARRANGEMENT OF SYSTEMS. WHEREVER PRACTICAL, INSTALL SYSTEMS AS INDICATED.

1.08MATERIALS AND EQUIPMENT MANUFACTURERS

A. OPTIONS IN SELECTING MATERIALS AND EQUIPMENT ARE LIMITED BY REQUIREMENTS OF THE CONTRACT DOCUMENTS AND GOVERNING REGULATIONS. THEY ARE NOT CONTROLLED BY INDUSTRY TRADITIONS OR PROCEDURES EXPERIENCED ON PREVIOUS CONSTRUCTION PROJECTS.

B. MATERIALS AND EQUIPMENT SHALL BE PROVIDED IN ACCORDANCE WITH THE FOLLOWING:
1. PRIMARY DESIGN PRODUCTS: PRIMARY DESIGN PRODUCTS ARE THOSE PRODUCTS AROUND WHICH THE PROJECT WAS DESIGNED IN TERMS OF CAPACITY, PERFORMANCE, PHYSICAL SIZE AND QUALITY.
2. PRIMARY DESIGN PRODUCTS ARE INDICATED BY USE OF A SINGLE MANUFACTURER'S NAME, MODEL NUMBER OR SIMILAR DATA ON DRAWINGS OR SCHEDULES OR WITHIN THE SPECIFICATIONS.
3. PROVIDE PRIMARY DESIGN PRODUCTS UNLESS SUBSTITUTIONS ARE MADE IN ACCORDANCE WITH THE FOLLOWING PARAGRAPHS.
4. ACCEPTABLE EQUIVALENT SUBSTITUTIONS: ACCEPTABLE EQUIVALENT SUBSTITUTIONS ARE PRODUCTS OF MANUFACTURES OTHER THAN THOSE LISTED FOR THE PRIMARY DESIGN PRODUCTS. EQUIVALENT ACCEPTABLE SUBSTITUTIONS SHALL MEET EACH OF THE FOLLOWING REQUIREMENTS:
a. THE PRODUCT SHALL BE MANUFACTURED BY ONE OF THE ACCEPTABLE MANUFACTURERS LISTED IN THE PROJECT MANUAL, DRAWINGS, OR ADDENDA.
b. THE PRODUCT SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CONTRACT DOCUMENTS IN TERMS OF QUALITY, PERFORMANCE, SUITABILITY, APPEARANCE, AND PHYSICAL CHARACTERISTICS.
c. THE CONTRACTOR PROVIDING THE SUBSTITUTION SHALL BEAR THE TOTAL COST OF ALL CHANGES DUE TO SUBSTITUTIONS. THESE COSTS MAY INCLUDE ADDITIONAL COMPENSATION TO THE ARCHITECT/ARCHITECT FOR REDESIGN AND EVALUATION SERVICES, INCREASED COST OF WORK BY THE OWNER OR OTHER CONTRACTORS, AND SIMILAR CONSIDERATIONS.
5. PERFORMANCE REQUIREMENTS: WHERE THE CONTRACT DOCUMENTS LIST PERFORMANCE REQUIREMENTS OR DESCRIBE A PRODUCT OR ASSEMBLY GENERICALLY, PROVIDE PRODUCTS THAT COMPLY WITH THE SPECIFIC REQUIREMENTS INDICATED AND THAT ARE RECOMMENDED BY THE MANUFACTURER FOR THE RESPECTIVE APPLICATION.
6. COMPLIANCE WITH STANDARDS, CODES AND REGULATIONS: WHERE THE SPECIFICATIONS REQUIRE ONLY COMPLIANCE WITH AN IMPOSED STANDARD, CODE OR REGULATION, THE CONTRACTOR HAS THE OPTION OF SELECTING A PRODUCT THAT COMPLIES WITH SPECIFICATION REQUIREMENTS, INCLUDING THE STANDARDS, CODES AND REGULATIONS.

C. PROPOSED SUBSTITUTIONS WILL BE JUDGED ON THE BASIS OF QUALITY, PERFORMANCE, APPEARANCE AND ON THE GOVERNING SPACE LIMITATIONS. THE REPUTATION OF THE MANUFACTURER, DELIVERY TIME REQUIREMENTS, AND THE AVAILABILITY OF REPAIR OR REPLACEMENT PARTS MAY ALSO BE CONSIDERED.

D. THE ARCHITECT/ARCHITECT SHALL BE THE SOLE AND FINAL JUDGE AS TO THE SUITABILITY OF SUBSTITUTION ITEMS.

1.09SUBMITTALS

A. PRODUCT DATA:
1. OTHER SECTION IN THE PROJECT MANUAL SHALL BE ADHERED TO IF MORE STRINGENT THAN THE FOLLOWING PARAGRAPHS.
2. WHEN REQUIRED BY OTHER SECTIONS OF THIS PROJECT MANUAL, SUBMIT SHOP DRAWINGS, PRODUCT DATA OR SAMPLES TO THE ARCHITECT/ARCHITECT FOR REVIEW.
3. SUBMITTALS DEEMED UNNECESSARY BY THE ARCHITECT/ARCHITECT SHALL BE RETURNED INDICATING "NO ACTION TAKEN".
4. A COMPLETED COPY OF THE TRANSMITTAL FORM INCLUDED WITH THE PROJECT MANUAL SHALL ACCOMPANY EACH SUBMITTAL.
5. SUBMITTALS SHALL BE LABELED INDICATING THE SPECIFICATION NUMBER AND TITLE, SHOP DRAWING OR PRODUCT DATA DESCRIPTION AND THE RESPECTIVE PART 2 PARAGRAPH AND SUB-PARAGRAPH NUMBERS.
6. PRODUCT DATA ARE ILLUSTRATIONS, STANDARD SCHEDULES, PERFORMANCE CHARTS, INSTRUCTION BROCHURES, DIAGRAMS AND OTHER INFORMATION FURNISHED BY THE CONTRACTOR, MANUFACTURER, SUPPLIER, OR DISTRIBUTOR TO ILLUSTRATE A MATERIAL, PRODUCT OR SYSTEM FOR SOME PORTION OF THE WORK.
7. ALL SUBMITTALS SHALL CLEARLY INDICATE PROPOSED ITEMS, CAPACITIES, CHARACTERISTICS AND DETAILS IN CONFORMANCE WITH CONTRACT DOCUMENTS. ALL EQUIPMENT ITEMS SHALL BE MARKED WITH THE SAME ITEM NUMBER AS USED ON DRAWINGS OR SCHEDULES. CAPACITIES, DIMENSIONS AND SPECIAL FEATURES REQUIRED SHALL BE CERTIFIED BY THE MANUFACTURER.
8. THE ARCHITECT/ARCHITECT SHALL REVIEW OR TAKE OTHER APPROPRIATE ACTION UPON THE CONTRACTOR'S SUBMITTALS SUCH AS SHOP DRAWINGS, PRODUCT DATA AND SAMPLES, BUT ONLY TO DETERMINE CONFORMANCE WITH THE DESIGN CONCEPT OF THE WORK AND THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS.
9. CONTRACTOR SHALL NOT BE RELIEVED OF RESPONSIBILITY FOR ANY DEVIATION FROM THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE ARCHITECT/ARCHITECT'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA OR SAMPLES.
10. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE SHOP DRAWINGS, PRODUCT DATA OR SAMPLES BY THE ARCHITECT/ARCHITECT'S REVIEW OF THOSE DRAWINGS.
11. NO PORTION OF THE WORK REQUIRING SUBMISSION OF A SHOP DRAWING, PRODUCT DATA OR SAMPLE SHALL BE COMMENCED UNTIL THE SUBMITTAL HAS BEEN REVIEWED BY THE ARCHITECT/ARCHITECT. ALL SUCH PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH REVIEWED SUBMITTALS.

1.10DELIVERY, STORAGE, AND HANDLING

A. DELIVER PIPES AND TUBES WITH FACTORY-APPLIED END CAPS. MAINTAIN END CAPS THROUGH SHIPPING, STORAGE, AND HANDLING TO PREVENT PIPE END DAMAGE AND TO PREVENT ENTRANCE OF DIRT, DEBRIS, AND MOISTURE.

1.11COORDINATION

A. DRAWINGS, PLANS, AND SCHEMATICS AND DIAGRAMS INDICATE THE GENERAL LOCATION AND THE ARRANGEMENT OF SYSTEMS. WHEREVER PRACTICAL, INSTALL SYSTEMS AS INDICATED.

B. PROVIDE OFFSETS AND ELEVATION CHANGES IN PIPING, CONDUIT AND DUCTWORK AS REQUIRED TO COMPLETE THE LAYOUT AND COORDINATION PROCESS. OFFSETS AND ELEVATION CHANGE INFORMATION SHALL BE INDICATED IN THE COORDINATION PROCESS DOCUMENTATION AND MUST BE SUBMITTED FOR REVIEW.

C. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLING MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. COORDINATE INSTALLING LARGE EQUIPMENT REQUIRING POSITIONING BEFORE CLOSING IN THE BUILDING.

D. COORDINATE SERVICE CONNECTIONS TO COMPONENTS FURNISHED BY UTILITY COMPANIES.
1. COORDINATE INSTALLATION AND CONNECTION OF EXTERIOR UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES, INCLUDING PROVISION FOR METERING COMPONENTS.
2. COMPLY WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND OF UTILITY COMPANY PROVIDING WATER, GAS, ELECTRICAL POWER AND OTHER SERVICES.

PART 2 PRODUCTS

2.01PERFORMANCE, CAPACITIES AND CHARACTERISTICS

A. SEE DRAWINGS FOR SPECIFIC NOTES AND/OR EQUIPMENT SCHEDULES WITH EQUIPMENT PERFORMANCE REQUIREMENTS WHEN CAPACITIES AND CHARACTERISTICS ARE NOT INDICATED IN THE SPECIFICATIONS.

2.02MATERIALS

A. UNLESS OTHERWISE SPECIFIED, ALL MATERIALS AND EQUIPMENT SHALL BE NEW, UNUSED AND UNDAMAGED. MATERIALS AND EQUIPMENT SHALL BE THE CURRENT AND STANDARD DESIGNS OF MANUFACTURERS REGULARLY ENGAGED IN THEIR PRODUCTION.

2.03QUANTITY OF SPECIFIED ITEMS REQUIRED

A. WHEREVER IN THESE SPECIFICATIONS AN ARTICLE, DEVICE OR PIECE OF EQUIPMENT IS REFERRED TO IN THE SINGULAR NUMBER; SUCH REFERENCE SHALL APPLY TO AS MANY SUCH ARTICLES AS ARE SHOWN ON THE DRAWINGS OR REQUIRED TO COMPLETE THE INSTALLATION.

2.04BACKFILL MATERIAL AND MIXES

A. EARTH FILL: APPROVED TYPE OF SOIL CLASSIFIED, IN ACCORDANCE WITH ASTM D2487, AS GW, GP, GM, GC, SW, SP, SM. SC, ML OR CL, AND FREE OF FOREIGN SUBSTANCES, OBTAINED FROM EXCAVATION ON THIS PROJECT OR OTHER APPROVED SOURCE, AND HAVING A PLASTICITY INDEX BETWEEN 7.5 AND 17.

B. GRANULAR FILL: GRANULAR FILL SHALL INCLUDE CLEAN, NATURAL OR PREPARED GRAVELS, GRAVEL-SAND MIXTURES, SANDS OR GRAVELLY SANDS WITH LITTLE OR NO FINES. A MINIMUM OF 95% SHALL BE RETAINED ON A NO. 200 SIEVE.

C. PEA GRAVEL: PEA GRAVEL SHALL CONSIST OF CLEAN, HARD, ROUND PARTICLES OF CRUSHED STONE, CRUSHED OR UNCRUSHED GRAVEL WITH THE FOLLOWING GRADATION:

SIEVE SIZEPERCENT PASSING3/8 INCH85 - 95#455 - 15#80 - 2

D. CRUSHED ROCK: CRUSHED ROCK SHALL CONSIST OF CLEAN, HARD, PARTICLES OF CRUSHED LIMESTONE, DOLOMITE, GRANITE, QUARTZITE, OR OTHER APPROVED ROCK. IT SHALL HAVE A PERCENTAGE OF WEAR OF NOT MORE THAN 45 AND A PERCENT LOSS OF NOT MORE THAN 30 AT THE END OF 16 CYCLES OF THE FREEZING AND THAWING TEST. GRADATION FOR CRUSHED ROCK SHALL BE AS FOLLOWS:

SIEVE SIZEPERCENT RETAINED1-1/2 INCH03/4 INCH5 - 353/8 INCH30 - 64#1070 - 90#200900 - 100

PART 3 EXECUTION

3.01GENERAL

A. FABRICATION, ERECTION, AND INSTALLATION OF THE COMPLETE SYSTEM SHALL BE DONE BY QUALIFIED PERSONNEL EXPERIENCED IN SUCH WORK AND SHALL PROCEED IN AN ORDERLY MANNER SO AS NOT TO HOLD UP THE PROGRESS OF THE PROJECT.

B. THE CONTRACTOR SHALL CHECK ALL AREAS AND SURFACES WHERE MECHANICAL EQUIPMENT OR MATERIALS ARE TO BE INSTALLED AND REPORT ANY UNSATISFACTORY CONDITIONS BEFORE STARTING WORK.

C. COMMENCEMENT OF WORK SIGNIFIES THE CONTRACTOR'S ACCEPTANCE OF THE CONDITIONS AS FIT AND PROPER FOR THE EXECUTION OF THE MECHANICAL WORK.

D. EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, REQUIREMENTS, OR RECOMMENDATIONS.

3.02DELIVERY AND STORAGE OF MATERIALS

A. TAKE PROVISIONS FOR THE DELIVERY AND SAFE STORAGE OF MATERIALS AND SHALL MAKE THE REQUIRED ARRANGEMENTS WITH OTHER CONTRACTORS FOR THE INTRODUCTION INTO THE BUILDING OF EQUIPMENT TOO LARGE TO PASS THROUGH FINISHED OPENINGS.

B. MATERIALS SHALL BE DELIVERED AT SUCH STAGES OF THE WORK AS WILL EXPEDITE THE WORK AS A WHOLE AND SHALL BE MARKED AND STORED IN SUCH A WAY AS TO BE EASILY CHECKED AND INSPECTED.

C. ALL ITEMS SUBJECT TO COLD WEATHER DAMAGE SHALL BE PROTECTED BY COVERING, INSULATING, OR STORING IN A HEATED SPACE.

3.03COOPERATION WITH OTHER CONTRACTORS

A. PERFORM THE WORK IN CONFORMANCE WITH THE CONSTRUCTION CALLED FOR BY OTHER TRADES AND AFFORD OTHER CONTRACTORS REASONABLE OPPORTUNITY FOR THE EXECUTION OF THEIR WORK.

B. PROPERLY CONNECT AND COORDINATE THE WORK WITH THE WORK OF OTHER CONTRACTORS AT SUCH TIME AND IN SUCH A MANNER AS NOT TO DELAY OR INTERFERE WITH THEIR WORK.

C. EXAMINE THE CONTRACT DOCUMENTS FOR THE GENERAL, MECHANICAL, AND ELECTRICAL WORK AND THE WORK OF OTHER TRADES. COORDINATE WORK ACCORDINGLY.

D. PROMPTLY REPORT TO THE ARCHITECT/ARCHITECT ANY DELAY OR DIFFICULTIES ENCOUNTERED IN THE INSTALLATION OF THE MECHANICAL WORK WHICH MIGHT PREVENT PROMPT AND PROPER INSTALLATION OF WORK REQUIRED FROM OTHER TRADES.

3.04LAYING OUT WORK

A. CAREFULLY LAY OUT ALL WORK IN ADVANCE OF INSTALLATION USING DATA AND MEASUREMENTS FROM THE SITE, THE APPROPRIATE ARCHITECTURAL AND STRUCTURAL DRAWINGS, AND SHOP DRAWINGS.

B. PRIOR TO INSTALLATION OF ANY WORK, MAKE CERTAIN THE LOCATION DOES NOT CONFLICT WITH OTHER ITEMS IN OR NEAR THE SAME LOCATION.

C. IF THE LAYOUTS SO PREPARED INDICATE THAT THE REQUIRED CONDITIONS CANNOT BE MET IN THE SPACE PROVIDED, INFORM THE ARCHITECT/ARCHITECT PRIOR TO INSTALLATION AND SHALL REQUEST CLARIFICATION.

D. FAILURE TO PROPERLY COORDINATE AND LAY OUT THE WORK WILL REQUIRE CORRECTION BY THE CONTRACTORS AT THEIR OWN EXPENSE.

3.05DATA AND MEASUREMENTS

A. DRAWINGS ARE DIAGRAMMATIC OR SCHEMATIC. DO NOT SCALE DRAWINGS.

B. THE DATA GIVEN HEREIN AND ON THE DRAWINGS IS AS ACCURATE AS COULD BE SECURED; ABSOLUTE ACCURACY IS NOT GUARANTEED.

C. OBTAIN EXACT LOCATIONS, MEASUREMENTS, LEVELS, ETC., AT THE SITE AND SHALL ADAPT THEIR WORK TO ACTUAL CONDITIONS.

D. LAYOUT AND COORDINATE ALL WORK PRIOR TO INSTALLATION TO PROVIDE CLEARANCES FOR OPERATION, MAINTENANCE AND CODES. VERIFY NON-INTERFERENCE WITH OTHER WORK.

3.06PROTECTION OF APPARATUS

A. TAKE SUCH PRECAUTIONS AS NECESSARY TO PROPERLY PROTECT ALL APPARATUS, FIXTURES, APPLIANCES, MATERIAL, EQUIPMENT, AND INSTALLATIONS FROM DAMAGE OF ANY KIND.

B. FAILURE TO PROVIDE SUCH PROTECTION TO THE SATISFACTION OF THE ARCHITECT/ARCHITECT SHALL BE SUFFICIENT CAUSE FOR THE REJECTION OF ANY PARTICULAR PIECE(S) OF MATERIAL, APPARATUS, EQUIPMENT, ETC., CONCERNED.

3.07EXAMINATION OF PREMISES

A. EXAMINE THE PREMISES AND ALL CONDITIONS THEREON AND/OR THEREIN. THE BID PROPOSAL SHALL TAKE INTO CONSIDERATION ALL SUCH CONDITIONS WHICH MAY AFFECT THE WORK UNDER THIS CONTRACT.

3.08ROADWAYS, CURBS, AND WALKS

A. USE EVERY POSSIBLE PRECAUTION TO PREVENT INJURIES TO ROADWAYS, CURBS, AND WALKS ON OR ADJACENT TO THE SITE OF THE WORK.

B. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE. THIS SHALL ALSO INCLUDE DAMAGE NECESSARY FOR INSTALLATION OF THE MECHANICAL WORK.

3.09EXCAVATION

A. PERFORM EXCAVATION OF EVERY DESCRIPTION AND OF WHATEVER SUBSTANCES ENCOUNTERED, TO THE DEPTHS REQUIRED OR INDICATED ON THE DRAWINGS, IN ACCORDANCE WITH OSHA.

B. DURING EXCAVATION, DEPOSIT MATERIAL SUITABLE FOR BACKFILL IN AN ORDERLY MANNER A SUFFICIENT DISTANCE FROM THE EXCAVATION BANKS TO AVOID OVERLOADING AND TO PREVENT SLIDES OR CAVE-INS.

C. DISPOSE OF MATERIAL UNSUITABLE FOR BACKFILL AS DIRECTED BY THE ARCHITECT/ARCHITECT.

D. GRADE AS NECESSARY TO PREVENT SURFACE WATER FROM FLOWING INTO TRENCHES OR OTHER EXCAVATIONS, AND REMOVE ANY WATER ACCUMULATING THEREIN BY PUMPING OR BY OTHER ACCEPTABLE METHOD.

E. FILL ANY EXCESS EXCAVATION BELOW THE LEVELS INDICATED FOR STRUCTURES OR RACEWAYS WITH SAND, GRAVEL OR CONCRETE.

F. UNSUITABLE MATERIAL:
1. WHERE THE BOTTOM OF THE TRENCH IS FOUND TO BE UNSTABLE OR TO INCLUDE ASHES, CINDERS, ANY TYPES OF REFUSE, VEGETABLE OR OTHER ORGANIC MATERIAL, OR LARGE PIECES OR FRAGMENTS OF INORGANIC MATERIAL, WHICH IN THE JUDGMENT OF THE ARCHITECT/ARCHITECT SHOULD BE REMOVED, EXCAVATE AND REMOVE SUCH UNSUITABLE MATERIAL TO A MINIMUM DEPTH OF 12 INCHES BELOW THE PIPING.
2. BACKFILL THE TRENCH WITH SELECTED BEDDING MATERIAL AND COMPACT TO PROVIDE UNIFORM AND CONTINUOUS BEARING FOR THE PIPING.
3. DISPOSE OF THE UNSUITABLE MATERIAL.

G. SHORING REQUIREMENTS:
1. PERFORM SHORING AND SHEETING THAT IS REQUIRED TO PROTECT THE EXCAVATION AND TO SAFEGUARD EMPLOYEES IN ACCORDANCE WITH OSHA.
2. WIDEN EXCAVATION TO PROVIDE FOR SPACE OCCUPIED BY SHORING AND SHEETING.
3. SHORING SHALL MEET THE REQUIREMENTS OF APPLICABLE CODES AND REGULATIONS.

H. DEWATERING:
1. PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM FLOWING INTO EXCAVATIONS AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA.
2. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS.
3. REMOVE WATER TO PREVENT SOFTENING OF FOUNDATION BOTTOMS, UNDERCUTTING FOOTINGS, AND SOIL CHANGES DETRIMENTAL TO STABILITY OF SUBGRADES AND FOUNDATIONS.
4. PROVIDE AND MAINTAIN PUMPS, WELL POINTS, SUMPS, SUCTION AND DISCHARGE LINES, AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS.
5. ESTABLISH AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS TO CONVEY RAIN WATER AND WATER REMOVED FROM EXCAVATIONS TO COLLECTING OR RUNOFF AREAS.
6. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.

3.10BACKFILL

A. DO NOT BACKFILL UNTIL REQUIRED INSPECTIONS ARE MADE AND TESTS ARE PERFORMED FOR THE SPECIFIC UTILITY.

B. BACKFILL WITH THE EXCAVATED MATERIALS SPECIFIED FOR BACKFILLING, CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND AND GRAVEL OR OTHER MATERIALS, FREE FROM LARGE CLODS OF EARTH OR STONES.

C. DO NOT USE BROKEN CONCRETE AS BACKFILL MATERIALS.

D. DO NOT BACKFILL IN FREEZING WEATHER OR WITH FROZEN MATERIAL.

E. ADJUST THE MOISTURE CONTENT OF THE BACKFILL MATERIAL IF REQUIRED FOR PROPER COMPACTION.

F. REOPEN ANY TRENCHES IMPROPERLY BACKFILLED, OR WHERE SETTLEMENT OCCURS, TO THE DEPTH REQUIRED FOR PROPER COMPACTION, REFILL AND COMPACT TO SPECIFIED DENSITY.

G. COMPACT BACKFILL FOR STRUCTURES TO THE SPECIFIED DENSITY.

H. DURING THE BACKFILLING OF EACH EXTERIOR UNDERGROUND PIPING SYSTEM, INSTALL CONTINUOUS UNDERGROUND TYPE PLASTIC LINE MARKERS.

I. DEPOSIT SUITABLE BACKFILL MATERIAL AROUND THE PIPING IN 6-INCH LAYERS AND THOROUGHLY COMPACT BY HAND, MACHINE TAMPER, OR OTHER SUITABLE EQUIPMENT.

J. BACKFILL TO AT LEAST 90 PERCENT OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED BY ASTM D698 UNTIL THE PIPING HAS A MINIMUM COVER OF 2 FEET.

K. THE MOISTURE CONTENT OF THE SOIL AT TIME OF COMPACTION SHALL BE NOT MORE THAN 3 PERCENT ABOVE OR 3 PERCENT BELOW THE OPTIMUM.

L. BE CAREFUL NOT TO DISTURB THE PIPING.

M. CARRY BACKFILLING ON SIMULTANEOUSLY ON BOTH SIDES OF THE PIPING TO ELIMINATE THE POSSIBILITY OF LATERAL DISPLACEMENT.

N. RETURN SURFACE TO ORIGINAL CONDITION.

3.11LUBRICATION, TESTING AND TEST REPORTS

A. UPON COMPLETION OF THE WORK, THE ENTIRE SYSTEM SHALL BE TESTED AND PROVEN FOR CAPACITY OF EQUIPMENT, BALANCE OF SYSTEM, PROPER OPERATION OF CONTROLS, AND COMFORT OF CONDITIONED SPACES.
1. TEST PIPING SYSTEMS PER APPLICABLE CODES AND STANDARDS.
2. SUBMIT COPIES OF ALL TESTS TO THE ARCHITECT/ARCHITECT FOR REVIEW PRIOR TO DATE OF SUBSTANTIAL COMPLETION.
3. EQUIPMENT AND SYSTEMS DISCREPANCIES SHALL BE CORRECTED PRIOR TO FINAL ACCEPTANCE.

END OF SECTION

SECTION 22 0553

IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT

PART 1 GENERAL

1.01SECTION INCLUDES

A. UNDERGROUND WARNING TAPE.

1.02SUBMITTALS

A. PRODUCT DATA: PROVIDE MANUFACTURERS CATALOG LITERATURE FOR EACH PRODUCT REQUIRED.

PART 2 PRODUCTS

2.01UNDERGROUND WARNING TAPE

A. MANUFACTURERS:
1. BRADY CORPORATION: WWW.BRADYID.COM/#SLE.
2. BRIMAR INDUSTRIES, INC: WWW.BRIMAR.COM/#SLE.
3. KOLBI PIPE MARKER CO: WWW.KOLBIPIPEMARKERS.COM/#SLE.
4. SETON IDENTIFICATION PRODUCTS: WWW.SETON.COM/#SLE.

B. MATERIALS: USE NON-DETECTABLE TYPE POLYETHYLENE TAPE SUITABLE FOR DIRECT BURIAL, UNLESS OTHERWISE INDICATED.

C. NON-DETECTABLE TYPE TAPE: 6 INCHES WIDE, WITH MINIMUM THICKNESS OF 4 MIL, 0.004 INCH.

D. LEGEND: TYPE OF SERVICE, CONTINUOUSLY REPEATED OVER FULL LENGTH OF TAPE.

PART 3 EXECUTION

3.01PIPE MARKERS

A. ALL UNDERGROUND PIPING SYSTEMS SHALL HAVE A NON-METALLIC WARNING TAPE, WITH APPROPRIATE WARNING, BURIED 24 INCHES ABOVE TOP OF PIPE.

END OF SECTION

SECTION 22 1005

PLUMBING PIPING

PART 1 GENERAL

1.01SECTION INCLUDES

A. DOMESTIC WATER PIPING, BURIED.

B. DOMESTIC WATER PIPING, ABOVE GRADE.

1.02CODE AND PERMIT COMPLIANCE

A. WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES. WHERE THE CODES AND DRAWINGS DO NOT AGREE, THE CODE SHALL TAKE PRECEDENCE; HOWEVER, CODE SHALL TAKE PRECEDENCE OVER WHAT IS SHOWN ONLY WHEN IT IS MORE STRINGENT THAN THAT INDICATED. ITEMS THAT ARE ALLOWED BY CODES WHICH ARE LESS STRINGENT THAN THAT SHOWN ON THE DRAWINGS SHALL NOT BE SUBSTITUTED.

B. CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH ALL REQUIREMENTS AS TO PERMITS, FEES, ETC., AND SHALL COMPLY. ALL PERMITS, LICENSES, INSPECTIONS, AND ARRANGEMENTS REQUIRED FOR THE WORK SHALL BE PROVIDED BY THE CONTRACTORS AT THEIR EXPENSE.

C. ALL UTILITIES SHALL BE INSTALLED IN ACCORDANCE WITH UTILITY COMPANY RULES AND REGULATIONS.

D. DRAWINGS, PLANS, AND SCHEMATICS AND DIAGRAMS INDICATE THE GENERAL LOCATION AND THE ARRANGEMENT OF PIPING SYSTEMS. WHEREVER PRACTICAL, INSTALL PIPING AS INDICATED.

1.03REFERENCE STANDARDS

A. ASME B16.18 - CAST COPPER ALLOY SOLDER JOINT PRESSURE FITTINGS.

B. ASTM B32 - STANDARD SPECIFICATION FOR SOLDER METAL.

C. ASTM B42 - STANDARD SPECIFICATION FOR SEAMLESS COPPER PIPE, STANDARD SIZES.

D. ASTM B68/B68M - STANDARD SPECIFICATION FOR SEAMLESS COPPER TUBE, BRIGHT ANNEALED.

E. ASTM B75/B75M - STANDARD SPECIFICATION FOR SEAMLESS COPPER TUBE.

F. ASTM B302 - STANDARD SPECIFICATION FOR THREADLESS COPPER PIPE, STANDARD SIZES.

G. ASTM B813 - STANDARD SPECIFICATION FOR LIQUID AND PASTE FLUXES FOR SOLDERING OF COPPER AND COPPER ALLOY TUBE.

H. ASTM B828 - STANDARD PRACTICE FOR MAKING CAPILLARY JOINTS BY SOLDERING OF COPPER AND COPPER ALLOY TUBE AND FITTINGS.

I. AWWA C900 - POLYVINYL CHLORIDE (PVC) PRESSURE PIPE, 4 IN. THROUGH 12 IN. (100 MM THROUGH 300 MM), FOR WATER TRANSMISSION AND DISTRIBUTION.

J. ICC-ES AC308 - ACCEPTANCE CRITERIA FOR POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS.

K. NSF 61 - DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS.

L. NSF 372 - DRINKING WATER SYSTEM COMPONENTS - LEAD CONTENT.

M. NSF/ANSI 372 - DRINKING WATER SYSTEM COMPONENTS - LEAD CONTENT

1.04SUBMITTALS

A. PRODUCT DATA: PROVIDE DATA ON PIPE MATERIALS, PIPE FITTINGS, VALVES, AND ACCESSORIES. PROVIDE MANUFACTURERS CATALOG INFORMATION. INDICATE VALVE DATA AND RATINGS.

B. PROJECT RECORD DOCUMENTS: RECORD ACTUAL LOCATIONS OF VALVES AND PIPING.

1.05QUALITY ASSURANCE

A. PERFORM WORK IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.

B. VALVES: MANUFACTURER'S NAME AND PRESSURE RATING MARKED ON VALVE BODY.

C. LEAD FREE: REFERS TO THE WETTED SURFACE OF PIPE, FITTINGS AND FIXTURES IN POTABLE WATER SYSTEMS THAT HAVE A WEIGHTED AVERAGE LEAD CONTENT =0.25% PER SAFE DRINKING WATER ACT AS AMENDED JANUARY 4TH 2011 SECTION 1417.

1.06REGULATORY REQUIREMENTS

A. CONFORM TO APPLICABLE CODE FOR INSTALLATION OF BACKFLOW PREVENTION DEVICES.

1.07DELIVERY, STORAGE, AND HANDLING

A. ACCEPT VALVES ON SITE IN SHIPPING CONTAINERS WITH LABELING IN PLACE. INSPECT FOR DAMAGE.

B. PROVIDE TEMPORARY PROTECTIVE COATING ON CAST IRON AND STEEL VALVES.

C. PROVIDE TEMPORARY END CAPS AND CLOSURES ON PIPING AND FITTINGS. MAINTAIN IN PLACE UNTIL INSTALLATION.

D. PROTECT PIPING SYSTEMS FROM ENTRY OF FOREIGN MATERIALS BY TEMPORARY COVERS, COMPLETING SECTIONS OF THE WORK, AND ISOLATING PARTS OF COMPLETED SYSTEM.

1.08FIELD CONDITIONS

A. DO NOT INSTALL UNDERGROUND PIPING WHEN BEDDING IS WET OR FROZEN.

PART 2 PRODUCTS

2.01GENERAL REQUIREMENTS

A. POTABLE WATER SUPPLY SYSTEMS: PROVIDE PIPING, PIPE FITTINGS, AND SOLDER AND FLUX (IF USED), THAT COMPLY WITH NSF 61 AND NSF 372 FOR MAXIMUM LEAD CONTENT; LABEL PIPE AND FITTINGS.

2.02 STORM DRAIN, BURIED

A. CELLULAR CORE PVC PIPE: ASTM F 891, SCHEDULE 40.
1. FITTINGS: PVC SOCKET FITTINGS; ASTM D 2665.
2. JOINTS: SOLVENT WELDED WITH ASTM 2564 SOLVENT CEMENT.

B. CELLULAR CORE, SEWER AND DRAIN SERIES, PVC PIPE: ASTM F 891, SERIES PS 100.
1. FITTINGS: PVC SOCKET FITTINGS; ASTM D 2665.
2. JOINTS: SOLVENT WELDED WITH ASTM 2564 SOLVENT CEMENT.

2.03DOMESTIC WATER PIPING, BURIED

A. COPPER PIPE: ASTM B42, HARD DRAWN.
1. FITTINGS: ASME B16.18, CAST COPPER ALLOY OR ASME B16.22 WROUGHT COPPER AND BRONZE.
2. JOINTS: ASTM B32, ALLOY SN95 SOLDER.

B. PVC SCHEDULE 80 POTABLE PIPE: AWWA C900, ASTM D2564.

2.04JOINING MATERIALS

A. SOLDER FILLER METALS: ASTM B32, LEAD-FREE ALLOYS. INCLUDE WATER-FLUSHABLE FLUX ACCORDING TO ASTM B813.

B. SOLVENT CEMENTS: MANUFACTURER'S STANDARD SOLVENT CEMENTS FOR THE FOLLOWING:
1. PVC PIPING: ASTM D 2564. INCLUDE PRIMER ACCORDING TO ASTM F 656.

2.05CURB STOP GATE VALVES

A. GATE VALVES UP TO 3 INCHES:
1. BRASS OR BRONZE BODY, NON-RISING STEM, INSIDE SCREW, SINGLE WEDGE OR DISC, IPS ENDS, WITH CONTROL ROD, VALVE KEY, AND EXTENSION BOX.

PART 3 EXECUTION

3.01EXAMINATION

A. VERIFY THAT EXCAVATIONS ARE TO REQUIRED GRADE, DRY, AND NOT OVER-EXCAVATED.

3.02PREPARATION

A. REAM PIPE AND TUBE ENDS. REMOVE BURRS. BEVEL PLAIN END FERROUS PIPE.

B. REMOVE SCALE AND DIRT, ON INSIDE AND OUTSIDE, BEFORE ASSEMBLY.

C. PREPARE PIPING CONNECTIONS TO EQUIPMENT WITH FLANGES OR UNIONS.

3.03INSTALLATION

A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

B. ESTABLISH ELEVATIONS OF BURIEDWATER PIPING TO ENSURE NOT LESS THAN [] OF COVER.

C. INSTALL WATER PIPING TO ASME B31.9.

D. COPPER PIPE AND TUBE: MAKE SOLDERED JOINTS IN ACCORDANCE WITH ASTM B828, USING SPECIFIED SOLDER, AND FLUX MEETING ASTM B813; IN POTABLE WATER SYSTEMS USE FLUX ALSO COMPLYING WITH NSF 61 AND NSF 372.

E. PVC PIPE: MAKE SOLVENT-WELDED JOINTS IN ACCORDANCE WITH ASTM D2855.

3.04FIELD QUALITY CONTROL

A. DOMESTIC WATER PIPING:
1. INSPECT DOMESTIC WATER PIPING AS FOLLOWS:
a. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT HAS BEEN INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.
b. DURING INSTALLATION, NOTIFY AUTHORITIES HAVING JURISDICTION AT LEAST 24 HOURS BEFORE INSPECTION MUST BE MADE. PERFORM TESTS SPECIFIED BELOW IN PRESENCE OF AUTHORITIES HAVING JURISDICTION:
c. ROUGHING-IN INSPECTION: ARRANGE FOR INSPECTION OF PIPING BEFORE CONCEALING OR CLOSING-IN AFTER ROUGHING-IN AND BEFORE SETTING FIXTURES.
d. FINAL INSPECTION: ARRANGE FINAL INSPECTION FOR AUTHORITIES HAVING JURISDICTION TO OBSERVE TESTS SPECIFIED BELOW AND TO ENSURE COMPLIANCE WITH REQUIREMENTS.
e. REINSPECTION: IF AUTHORITIES HAVING JURISDICTION FIND THAT PIPING WILL NOT PASS TEST OR INSPECTION, MAKE REQUIRED CORRECTIONS AND ARRANGE FOR REINSPECTION.
f. REPORTS: PREPARE INSPECTION REPORTS AND HAVE THEM SIGNED BY AUTHORITIES HAVING JURISDICTION.
2. TEST DOMESTIC WATER PIPING AS FOLLOWS:
a. FILL DOMESTIC WATER PIPING. CHECK COMPONENTS TO DETERMINE THAT THEY ARE NOT AIR BOUND AND THAT PIPING IS FULL OF WATER.
b. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED. IF TESTING IS PERFORMED IN SEGMENTS, SUBMIT SEPARATE REPORT FOR EACH TEST, COMPLETE WITH DIAGRAM OF PORTION OF PIPING TESTED.
c. LEAVE NEW, ALTERED, EXTENDED, OR REPLACED DOMESTIC WATER PIPING UNCOVERED AND UNTIL IT HAS BEEN TESTED AND APPROVED. EXPOSE WORK THAT WAS COVERED OR CONCEALED BEFORE IT WAS TESTED.
d. CAP AND SUBJECT PIPING TO STATIC WATER PRESSURE OF 50 PSIG ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR 4 HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED.
e. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.
f. PREPARE REPORTS FOR TESTS AND REQUIRED CORRECTIVE ACTION.

END OF SECTION

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CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
1111 N 13TH STREET, STUDIO 204
OMAHA, NE 68102
PH: (402) 973-9908
www.thinkconfluence.com

MECHANICAL ENGINEER
ALVINE ENGINEERING
1201 CASS STREET
OMAHA, NE 68102
PH: (402) 346-7007
www.alvine.com

VALLEY VIEW DOG PARK, PHASE II

CITY OF COUNCIL BLUFFS
COUNCIL BLUFFS, IOWA
CITY PROJECT NO. R-23-13

ISSUE SCHEDULE

ISSUE	DATE	DESCRIPTION

ISSUED FOR
NOT FOR CONSTRUCTION
100% CDS

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SPECIFICATIONS

CONFLUENCE PROJECT # 21033

M2.0

SECTION 22 1006
PLUMBING PIPING SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES
- A. DRAINS.
- B. BACKFLOW PREVENTERS.

1.02 REFERENCE STANDARDS
- A. ASSE 1013 - PERFORMANCE REQUIREMENTS FOR REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLIES.
- B. NSF 61 - DRINKING WATER SYSTEM COMPONENTS - HEALTH EFFECTS.
- C. NSF 372 - DRINKING WATER SYSTEM COMPONENTS - LEAD CONTENT.
- D. NSF/ANSI 372 - DRINKING WATER SYSTEM COMPONENTS - LEAD CONTENT
- E. ASSE - LEAD FREE CERTIFIED.

1.03 SUBMITTALS
- A. PRODUCT DATA: PROVIDE COMPONENT SIZES, ROUGH-IN REQUIREMENTS, SERVICE SIZES, AND FINISHES.
- B. MANUFACTURER'S INSTRUCTIONS: INDICATE MANUFACTURER'S INSTALLATION INSTRUCTIONS: INDICATE ASSEMBLY AND SUPPORT REQUIREMENTS.
- C. OPERATION DATA: INDICATE FREQUENCY OF TREATMENT REQUIRED FOR INTERCEPTORS.
- D. MAINTENANCE DATA: INCLUDE INSTALLATION INSTRUCTIONS, SPARE PARTS LISTS, EXPLODED ASSEMBLY VIEWS.

1.04 QUALITY ASSURANCE
- A. MANUFACTURER QUALIFICATIONS: COMPANY SPECIALIZING IN MANUFACTURING THE PRODUCTS SPECIFIED IN THIS SECTION WITH NOT LESS THAN THREE YEARS DOCUMENTED EXPERIENCE.
- B. LEAD FREE: REFERS TO THE WETTED SURFACE OF PIPE, FITTINGS AND FIXTURES IN POTABLE WATER SYSTEMS THAT HAVE A WEIGHTED AVERAGE LEAD CONTENT =0.25% PER SAFE DRINKING WATER ACT AS AMENDED JANUARY 4TH 2011 SECTION 1417.
  1. ASSE LEAD-FREE CERTIFIED.

1.05 REGULATORY REQUIREMENTS
- A. CONFORM TO APPLICABLE CODE FOR INSTALLATION OF BACKFLOW PREVENTION DEVICES.
- B. PROVIDE CERTIFICATE OF COMPLIANCE FROM AUTHORITY HAVING JURISDICTION INDICATING APPROVAL OF INSTALLATION OF BACKFLOW PREVENTION DEVICES.

1.06 DELIVERY, STORAGE, AND HANDLING
- A. ACCEPT SPECIALTIES ON SITE IN ORIGINAL FACTORY PACKAGING. INSPECT FOR DAMAGE.

PART 2 PRODUCTS

2.01 GENERAL REQUIREMENTS
- A. SPECIALTIES IN POTABLE WATER SUPPLY SYSTEMS: PROVIDE PRODUCTS THAT COMPLY WITH NSF 61 AND NSF 372 FOR MAXIMUM LEAD CONTENT.

2.02 PERFORMANCE, CAPACITIES AND CHARACTERISTICS
- A. SEE DRAWINGS FOR EQUIPMENT SCHEDULES WITH EQUIPMENT PERFORMANCE REQUIREMENTS WHEN CAPACITIES AND CHARACTERISTICS ARE NOT INDICATED IN THE SPECIFICATIONS.

2.03 FILL DRAINS
- A. MANUFACTURERS:
  1. JAY R. SMITH MANUFACTURING COMPANY: WWW.JAYRSMITH.COM.
  2. JOSAM COMPANY: WWW.JOSAM.COM.
  3. MIFAB, INC: WWW.MIFAB.COM/#SLE.
  4. JAY R. SMITH MANUFACTURING COMPANY: WWW.JAYRSMITH.COM.
  5. ZURN INDUSTRIES, INC: WWW.ZURN.COM.
  6. WADE

2.04 BACKFLOW PREVENTERS
- A. REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY:
  1. MANUFACTURERS:
     - a. AMES CO.
     - b. APOLLO VALVES: WWW.APOLLOVALVES.COM.
     - c. CASH ACME.
     - d. CONBRACO INDUSTRIES: WWW.APOLLOVALVES.COM.
     - e. FEBCO; SPX VALVES & CONTROLS.
     - f. HONEYWELL WATER CONTROLS.
     - g. LEGEND VALVE.
     - h. WATTS REGULATOR COMPANY: WWW.WATTSREGULATOR.COM.
     - i. ZURN INDUSTRIES, INC: WWW.ZURN.COM.
  2. ASSE 1013; CAST BRONZE BODY AND STAINLESS STEEL SPRINGS; TWO INDEPENDENTLY OPERATING, SPRING LOADED CHECK VALVES; DIAPHRAGM TYPE DIFFERENTIAL PRESSURE RELIEF VALVE LOCATED BETWEEN CHECK VALVES; THIRD CHECK VALVE THAT OPENS UNDER BACK PRESSURE IN CASE OF DIAPHRAGM FAILURE, AND NON-THREADED VENT OUTLET.
  3. SIZE: 2 INCH ASSEMBLY WITH THREADED FULL PORT BALL VALVES.
  4. OPERATION: CONTINUOUS-PRESSURE APPLICATIONS.
  5. PRESSURE LOSS: 12 PSIG MAXIMUM, THROUGH MIDDLE 1/3 OF FLOW RANGE.
  6. BODY: BRONZE FOR NPS 2 AND SMALLER; CAST IRON WITH INTERIOR LINING COMPLYING WITH AWWA C550 OR THAT IS FDA APPROVED FOR NPS 2-1/2 AND LARGER.
  7. END CONNECTIONS: THREADED FOR NPS 2 AND SMALLER; FLANGED FOR NPS 2-1/2 AND LARGER.
  8. CONFIGURATION: DESIGNED FOR HORIZONTAL, STRAIGHT THROUGH FLOW.
  9. ACCESSORIES:
     - a. VALVES: BALL TYPE WITH THREADED ENDS ON INLET AND OUTLET OF NPS 2 AND SMALLER; OUTSIDE SCREW AND YOKE GATE-TYPE WITH FLANGED ENDS ON INLET AND OUTLET OF NPS 2-1/2 AND LARGER.
     - b. AIR-GAP FITTING: ASME A112.1.2, MATCHING BACKFLOW-PREVENTER CONNECTION.

PART 3 EXECUTION

3.01 INSTALLATION
- A. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. INSTALL FLOOR CLEANOUTS AT ELEVATION TO ACCOMMODATE FINISHED FLOOR.
- C. PIPE RELIEF FROM BACKFLOW PREVENTER TO GRADE.
- D. INSTALL Y-PATTERN STRAINERS FOR WATER ON SUPPLY SIDE OF EACH WATER PRESSURE REDUCING VALVE.
- E. INSTALL DRAINING-TYPE POST HYDRANTS WITH 1 CU. YD. OF CRUSHED GRAVEL AROUND DRAIN HOLE. SET POST HYDRANTS IN CONCRETE PAVING OR IN 1 CU. FT. OF CONCRETE BLOCK AT GRADE.

3.02 FIELD QUALITY CONTROL
- A. PERFORM THE FOLLOWING TESTS AND PREPARE TEST REPORTS:
  1. TEST EACH REDUCED-PRESSURE-PRINCIPLE BACKFLOW PREVENTER ACCORDING TO AUTHORITIES HAVING JURISDICTION AND THE DEVICE'S REFERENCE STANDARD.
- B. REMOVE AND REPLACE MALFUNCTIONING DOMESTIC WATER PIPING SPECIALTIES AND RETEST AS SPECIFIED ABOVE.

END OF SECTION

CONFLUENCE

LANDSCAPE ARCHITECT
CONFLUENCE
1111 N 13TH STREET, STUDIO 204
OMAHA, NE 68102
PH: (402) 973-9908
www.thinkconfluence.com

MECHANICAL ENGINEER
ALVINE ENGINEERING
1201 CASS STREET
OMAHA, NE 68102
PH: (402) 346-7007
www.alvine.com

VALLEY VIEW DOG PARK, PHASE II

CITY OF COUNCIL BLUFFS
COUNCIL BLUFFS, IOWA
CITY PROJECT NO. R-23-13

ISSUE SCHEDULE

ISSUE	DATE	DESCRIPTION

ISSUED FOR

NOT FOR CONSTRUCTION

100% CDS

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SPECIFICATIONS

CONFLUENCE PROJECT # 21033

M2.1