

# POWWOW GARDENS & ART MARKET

RECEIVED

MAY 14 2010

Rapid City Growth Management Department

CITY OF RAPID CITY PROJECT NO. RC09-1850/50793



PROJECT LOCATION



PROJECT LOCATION MAP SCALE: 1"=800'



I hereby certify that these plans and specifications have been prepared by me or under my direct supervision and that I am a duly registered Landscape Architect under the laws of South Dakota.

LANDSCAPE ARCHITECT:

**Wyss Associates, Inc.**  
 Landscape Architecture  
 Golf Course Architecture  
 Parks & Recreation Design  
 728 Sixth Street - Rapid City, South Dakota 57701-3670  
 Ph: 605.348.2266 Fax: 605.348.8506  
 email: info@wyssassociates.com



I hereby certify that these plans and specifications have been prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under the laws of South Dakota.

CIVIL ENGINEER:

**FMG, Inc.**  
 2750 George Road  
 Rapid City, SD 57702-0217  
 (605) 342-4100 FAX (605) 342-4222



I hereby certify that these plans and specifications have been prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under the laws of South Dakota.

STRUCTURAL ENGINEER:

**Albertson Engineering Inc.**  
 3202 West Main  
 Suite C  
 Rapid City, South Dakota 57702  
 phone: 605.343.9608 fax: 605.341.7395



I hereby certify that these plans and specifications have been prepared by me or under my direct supervision and that I am a duly registered Architect under the laws of South Dakota.

ARCHITECT:

**ARC HITECTURE INTERNATIONAL**  
 800 W. 14th Street, Suite 200  
 Rapid City, SD 57701  
 Phone: 605.348.2266 Fax: 605.348.8506



I hereby certify that these plans and specifications have been prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under the laws of South Dakota.



I hereby certify that these plans and specifications have been prepared by me or under my direct supervision and that I am a duly registered Professional Engineer under the laws of South Dakota.

SITE ELECTRICAL/MECHANICAL ENGINEER:

**WPE WEST PLAINS ENGINEERING CONSULTING ENGINEERS**  
 1798 RAND ROAD - RAPID CITY, SD 57702  
 PHONE: (605) 348-7465 FAX: (605) 348-9442

INDEX OF SHEETS

CIVIL / LANDSCAPE / SITE DESIGN PLANS:

1. COVER SHEET
2. T1 - GENERAL NOTES
3. T2 - SURVEY CONTROL PLAN
4. T3 - GENERAL SITE PLAN
5. D1 - DEMOLITION PLAN
6. C1 - CIVIL LAYOUT PLAN
7. C2 - CIVIL DETAILS
8. G1 - GRADING PLAN
9. G2 - ENLARGED GRADING PLAN
10. ER1 - EROSION CONTROL PLAN
11. ER2 - EROSION CONTROL REPORT
12. L1 - SITE LAYOUT PLAN
13. L2 - ENLARGED AMPHITHEATER LAYOUT PLAN
14. L3 - ENLARGED AMPHITHEATER LAYOUT PLAN
15. DTL1 - SITE DETAILS
16. DTL2 - SITE DETAILS
17. DTL3 - SITE DETAILS
18. DTL4 - SITE DETAILS
19. DTL5 - SITE DETAILS
20. DTL6 - SITE DETAILS
21. DTL7 - SITE DETAILS
22. DTL8 - SITE DETAILS
23. DTL9 - SITE DETAILS
24. DTL10 - SITE DETAILS
25. P1 - PLANTING PLAN
26. P2 - ENLARGED PLANTING PLAN
27. P3 - GRASSING PLAN
28. P-DTL1 - PLANTING DETAILS
29. IR1 - IRRIGATION PLAN
30. IR-DTL1 - IRRIGATION DETAILS
31. IR-DTL2 - IRRIGATION DETAILS
32. SITE LIGHTING PLAN AND DETAIL

STRUCTURAL PLANS:

1. XXXXX
2. XXXXX

ARCHITECTURAL PLANS:

1. RESTROOM PLANS
2. EXTERIOR ELEVATIONS AND BUILDING SECTIONS
3. ENLARGED FLOOR PLAN AND INTERIOR ELEVATIONS

SITE ELECTRICAL PLANS:

1. E1 - ELECTRICAL SITE PLAN
2. E2 - ENLARGED ELECTRICAL PLANS
3. E3 - ELECTRICAL SCHEDULES AND SYMBOLS
4. E4 - ELECTRICAL DETAILS
5. E5 - ELECTRICAL DETAILS

SITE MECHANICAL PLANS:

1. M1 - HVAC AND PLUMBING PLANS
2. M2 - MECHANICAL SYMBOLS AND DETAILS

CITY OF RAPID CITY GROWTH MANAGEMENT DEPT. DEVELOPMENT SERVICES  
**PROJECT MANUAL**  
 with applicable governmental regulations, specifications, design criteria and engineering standards. The City of Rapid City does not warrant the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer or architect. All necessary permits shall be obtained prior to construction of the proposed public improvements.  
 Engineering Review: \_\_\_\_\_ Date: \_\_\_\_\_  
 COMMENTS

ONE CALL BEFORE DIGGING  
 1-800-781-7474



CITY of RAPID CITY  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING SERVICES

Plan Set Number :

POWWOW GARDENS & ART MARKET

CITY OF RAPID CITY PROJECT NO. RC09-1850/50793

**LANDSCAPE GRADING NOTES:**

1. ALL AREAS SHALL SLOPE TO DRAIN FREELY. NO PONDING OR STANDING WATER CONDITIONS SHALL OCCUR ANYWHERE WITHIN THE SCOPE OF THIS CONTRACT UNLESS SPECIFICALLY DESIGNED TO DO SO
2. CONTRACTOR SHALL INSTALL ADDITIONAL FIELD DRAINS OR DROP INLETS AS NEEDED TO ALLEVIATE ANY STANDING WATER CONDITIONS.
3. TOP SURFACES OF FURNITURE (BENCHES, TABLES, RECEPTACLES, ETC. SHALL BE LEVEL, EXCEPT AS RECOMMENDED BY THE MANUFACTURER. COORDINATE FOOTING DEPTH AND LOCATIONS TO ACCOUNT FOR THIS, WITHOUT IMPEDING SURFACE FLOW.
4. SOIL SURFACES SHALL SLOPE TO DRAIN AT A MINIMUM OF 2% AND SHALL BE NO STEEPER THAN 2:1. LAWN SLOPES SHALL NOT EXCEED 3.5:1.
5. SOIL FINISH GRADES SHALL BE 6" BELOW FINISH FLOOR ELEVATIONS UNLESS DETAILED OTHERWISE, AND 2" BELOW FINISH SURFACES OF ADJACENT PAVEMENTS TO ACCOMMODATE MULCH LAYER AT PLANTING BEDS.
6. ALL NOTES, CONDITIONS AND SPECIFICATIONS OF THE CIVIL ENGINEER'S UTILITY PLANS ARE APPLICABLE.

**UTILITY NOTES:**

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH APPLICABLE CODES. NOTHING IN THESE PLANS SHALL IMPLY OR ALLOW FOR DEVIATION FROM CODE.
2. ALL INSTALLATIONS, UTILITY WORK SHALL BE PERFORMED BY CONTRACTORS HOLDING APPROPRIATE LICENSES.
3. EQUIPMENT, UTILITIES, OR OTHER ITEMS NOT IDENTIFIED ON THESE DRAWINGS SHALL REMAIN UNDISTURBED IF POSSIBLE. ANY ADDITIONAL EQUIPMENT OR UTILITIES ENCOUNTERED WITHIN THE LIMITS OF WORK SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK IN THAT AREA.
4. CONTRACTORS SHALL BE RESPONSIBLE FOR KNOWING THE LOCATIONS OF ALL UTILITIES, EQUIPMENT, AND CONDUITS WITHIN THE PROJECT AREA.
5. CONTACT SOUTH DAKOTA ONE CALL NOTIFICATION CENTER 1-800-781-7474 AS NEEDED TO MAINTAIN CLEARLY MARKED LOCATIONS OF ALL UTILITIES WITHIN THE PROJECT AREA.
6. DAMAGES TO EXISTING UTILITIES, EQUIPMENT, IRRIGATION EQUIPMENT AND OTHER PROPERTY SHALL BE RECTIFIED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
7. ALL PIPE AND CONDUIT ROUTES, LOCATIONS AND TRENCH SECTIONS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO COVERING. SCHEDULE INSPECTIONS 48 HOURS IN ADVANCE OF BACKFILLING.
8. RESTORE/MAINTAIN ALL EXISTING DRAINAGE PATTERNS TO EXISTING STRUCTURES, ETC. AS APPROPRIATE.

**LAYOUT NOTES:**

1. DIMENSIONS ARE GIVEN FROM FACES OF CURBS WALLS AND BUILDINGS, BACK OF SIDEWALKS, CENTERLINES OF MOWSTRIPS & HEADERBOARDS, AND EDGES OF FURNITURE.
2. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS IN ALL CASES.
3. EXISTING CONDITIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTOR. IN THE EVENT OF A DISCREPANCY, THE PROJECT LANDSCAPE ARCHITECT SHALL BE NOTIFIED PRIOR TO CONTINUING WORK.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWING LOCATIONS OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES, STRUCTURES, ETC.
5. DAMAGE TO EXISTING MATERIALS, EQUIPMENT, OR STRUCTURES SHALL BE REPAIRED OR REPLACED, TO THE SATISFACTION OF THE OWNER, AT CONTRACTOR'S EXPENSE.
6. LAYOUT SHALL BE STAKED IN THE FIELD FOR REVIEW AND APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT. SCHEDULE FIELD INSPECTION WITH LANDSCAPE ARCHITECT AT LEAST 24 HOURS IN ADVANCE.
7. REFER TO ENGINEERING GRADING PLANS FOR FINISH GRADES AND ELEVATIONS OF ALL PAVEMENTS AND STRUCTURES NOT PROVIDED IN THESE DRAWINGS.
8. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING INSTALLATIONS AND SCHEDULING WITH OTHER TRADES.
9. ALL MATERIALS, EQUIPMENT, AND INSTALLATIONS SHALL BE AS SHOWN THIS DRAWING SET, OR AS DESCRIBED IN THE SPECIFICATIONS.

**IRRIGATION NOTES:**

1. THIS SYSTEM IS DESIGNED TO OPERATE WITH A MINIMUM STATIC WATER PRESSURE OF 75 PSI AT THE POINT OF CONNECTION. THE CONTRACTOR SHALL VERIFY THE STATIC WATER PRESSURE PRIOR TO COMMENCING WORK. IF THERE IS GREATER THAN 80 PSI @ POINT OF CONNECTION CONTRACTOR SHALL INSTALL A PRESSURE REGULATING VALVE AND SET PRESSURE TO 75 PSI AFTER THE BACKFLOW PREVENTER. CONFIRM ALL ADDITIONAL APPURTENANCES WITH OWNER & SUBMIT TO LANDSCAPE ARCHITECT FOR APPROVAL.
2. IRRIGATION CONTROLLER SHALL BE LOCATED IN MAINTENANCE ROOM OF RESTROOM BUILDING. COORDINATE TRENCHING AND SLEEVING WITH GENERAL CONTRACTOR.
3. EACH CONTROLLER SHALL HAVE ITS OWN COMMON WIRE. THERE IS ONE (1) CONTROLLER FOR THIS JOB.
4. CONTRACTOR SHALL RUN 2 ADDITIONAL CONTROL WIRES FOR EACH CONTROLLER ALONG THE ENTIRE SYSTEM AND LOOP THE WIRES BACK TO EACH CONTROLLER. THESE WIRES WILL BE SPARES.
5. VALVE STATION ID NUMBERS ON PLAN DESIGNATE THE FOLLOWING: S = SHRUB SPRAY ZONES, L = LAWN ZONES, D = DRIP ZONES, R = ROTORS.
6. PROGRAM CONTROLLER TO IRRIGATE ZONES IN NUMERIC ORDER SHOWN ON PLAN TO ALLOW INFILTRATION OF APPLIED WATER, AND REDUCE RUNOFF. SEQUENCE AS FOLLOWS: (R-X), (L 1-X), (S 1-X), (D 1-X) MAINLINE AND LATERAL LINE LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL KEEP LINES OUT OF PAVED AREAS WHERE POSSIBLE. COMMON TRENCH IF POSSIBLE.
7. VALVE LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL LOCATE BOXES IN PLANTING BEDS, NOT IN LAWNS WHERE POSSIBLE. APPROXIMATELY 12"-18" FROM PAVEMENTS, WALKS, ETC. (GANG VALVES WHERE POSSIBLE)
8. SOLENOID VALVE ADJUSTMENT: CLOSE FLOW CONTROL UNTIL SPRINKLER RADIUS IS AFFECTED THEN OPEN 1/2 TURN FOR OPTIMUM DIAPHRAGM LIFE
9. PIPE SIZES NOTED ON PLAN.
10. COORDINATE PIPE SLEEVING, WIRE-PULLS AND PAVEMENT CROSS-OVERS WITH GENERAL CONTRACTOR PRIOR TO ROUGH GRADING. CONTRACTOR SHALL STUB UP AND CAP SLEEVES 12"-18" INSIDE PLANTERS.
11. INSTALL SCH 40 SLEEVE UNDER ALL PAVED SURFACES FOR BOTH MAINLINE & LATERALS. MINIMUM SLEEVE SIZE TO BE TWICE DIAMETER OF THE LINE.
12. ADJUST RADIUS OF ALL SPRINKLERS TO MINIMIZE OVERTHROW.
13. CONTRACTOR SHALL INSTALL RAINBIRD 1800 PCS (PRESSURE COMPENSATING SCREENS) AS NEEDED TO REDUCE RADII OF SPRAY PATTERNS, AND TO ELIMINATE OVERSPRAY. REFER TO MANUFACTURER'S CATALOG CHART WHEN SELECTING APPROPRIATE SCREENS.
14. LOCATE HEADS 4" FROM ADJACENT CURB AND PAVED SURFACES, AND 12" FROM ADJACENT BUILDINGS AND STRUCTURES EXCEPT WHERE NOTED. ALL PIPE AND EQUIPMENT (EXCEPT COPPER PIPE, CONTROLLERS, WIRE SLEEVES AND PIPES SHOWN IN SLEEVES, SHALL BE INSTALLED IN PLANTER AREAS, EXCEPT WHERE NECESSARY. SOME SHOWN IN PAVED AREAS ON PLAN FOR GRAPHIC CLARITY.
15. ALL EQUIPMENT SHALL BE SUPPLIED AND INSTALLED AS DESCRIBED IN THE SPECIFICATIONS, OR AS SHOWN IN THE DETAILS.
16. CONTRACTOR SHALL USE FIELD LOCATOR SERVICE TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL HAND TRENCH AROUND UNDERGROUND UTILITIES AS REQUIRED BY LOCAL AUTHORITIES.
17. EXISTING TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. TRENCHING BENEATH THE DRIPLINE OF EXISTING TREES SHALL BE AVOIDED AND SHALL BE PERFORMED MANUALLY WHEN NECESSARY.
18. CONTRACTOR SHALL REPAIR DAMAGE DONE TO SITE ELEMENTS DUE TO CONTRACTORS WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL THOROUGHLY DOCUMENT EXISTING CONDITION OF SITE PRIOR TO COMMENCING WORK AND SUBMIT TO THE OWNER COPIES OF DOCUMENTATION.

**PLANTING NOTES:**

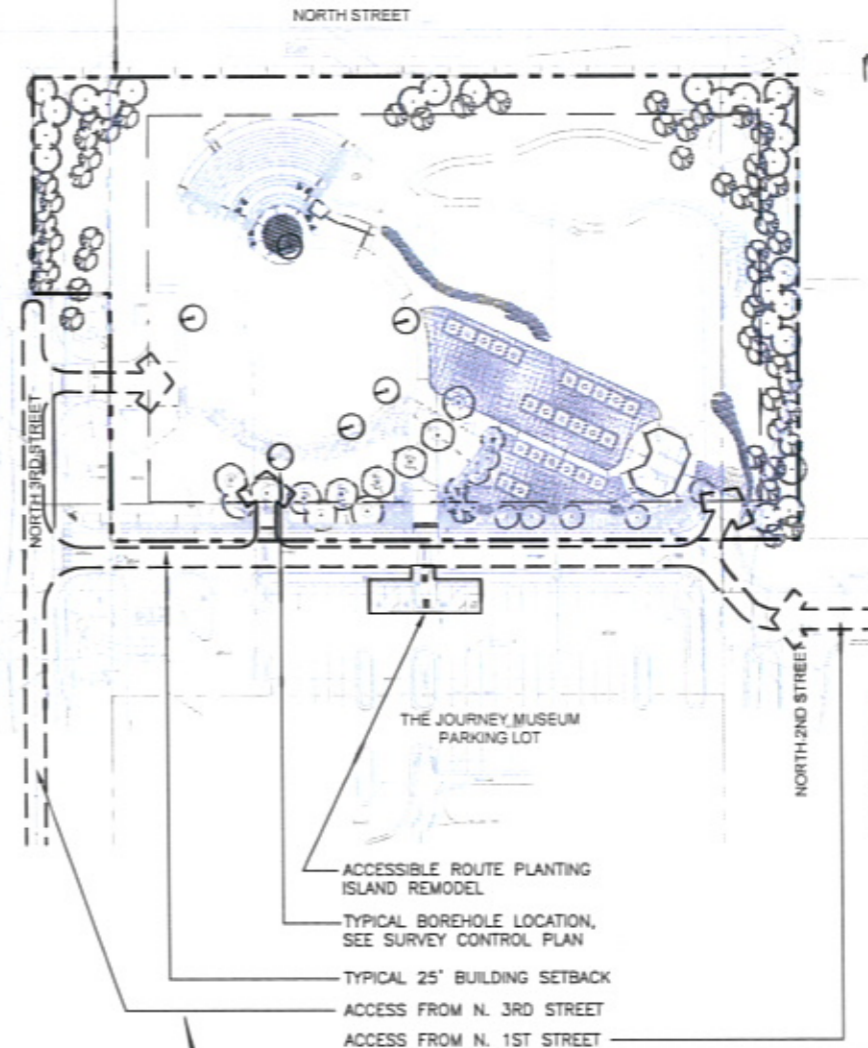
1. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED UTILITIES AT NO COST TO OWNER.
2. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN OR EQUIVALENT.
3. ALL TREE AND SHRUB LOCATIONS SHALL BE STAKED BY CONTRACTOR AND APPROVED BY PROJECT LANDSCAPE ARCHITECT.
4. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
5. ALL PLANTS AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
6. ALL PLANTS SHALL BE INSTALLED IN ACCORDANCE WITH ALL DRAWINGS AND SPECIFICATIONS.
7. ALL PLANTING BEDS AREAS ARE TO RECEIVE SHREDDED WOOD MULCH, OR APPROVED EQUAL. MULCH SHALL BE PROVIDED AND DELIVERED BY THE CITY OF RAPID CITY. CONTACT THE CITY PROJECT MANAGER AT 48 HOURS IN ADVANCE OF DELIVERY.
8. MULCH TO A 2" MINIMUM DEPTH. PERENNIAL AREAS SHALL RECEIVE A 2" MIN. DEPTH. TREES IN LAWN ARE TO RECEIVE A 4'-0" DIA. MULCH RING WITH A MINIMUM DEPTH OF 2". DO NOT MULCH SEEDED GRASS AREAS.
9. HYDROSEEDING SHALL TAKE PLACE DURING THE RAINY SEASON AND AFTER SOIL TEMP. EXCEEDS 40 DEGREES FROM APPROX. MAY 15 TO JUNE 30.
10. LANDSCAPE PLANTING SHALL TAKE PLACE FROM APRIL 15 TO JUNE 15 OR FROM SEPTEMBER 1 TO NOVEMBER 1, UNLESS OTHERWISE INDICATED.
11. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING HEALTH OF ALL PLANT MATERIAL INCLUDING TREES, SHRUBS, PERENNIALS, TURF GRASSES, AND NATIVE GRASSES UNTIL FINAL ACCEPTANCE OF PROJECT.
12. ALL PLANTS SHALL BE SPRAYED WITH AN ANTIDESSICANT WITHIN 24 HOURS OF PLANTING, AND AT THE BEGINNING OF THEIR FIRST WINTER.
13. THE CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS AND PLANTING DETAILS FOR ADDITIONAL REQUIREMENTS.
14. THE CONTRACTOR SHALL PROVIDE A ONE (1) YEAR WARRANTY FOR ALL PLANT MATERIAL UNLESS OTHERWISE INDICATED IN SPECIFICATIONS.
15. ALL PLANT MATERIAL TO BE FREE OF PESTS, DISEASE AND BREAKAGE - SEE SPECIFICATIONS.
16. OWNER, OR OWNER'S REPRESENTATIVE TO INSPECT PLANT MATERIAL BEFORE PLANTING - SEE SPECIFICATIONS.
17. CONTRACTOR TO REMOVE AND DISPOSE OF ALL METAL WIRE BASKETS, FROM ROOTBALL, BEFORE PLANTING.
18. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING GRASS SEED MIX PER PLAN AND ON ALL MISCELLANEOUS DISTURBED AREAS NOT DESIGNATED PLANTING BEDS OR SEED AREAS. SEED TO BE INSTALLED AND MAINTAINED PER NOTES AND SPECIFICATIONS. MIX FOR MISCELLANEOUS AREAS SHALL BE "RECLAMATION GRASS MIX". PREPARE SOIL AS DESCRIBED ON SOIL CONDITIONING PLAN PRIOR TO BEGINNING PLANT INSTALLATION. COMPOST TO BE PROVIDED AND DELIVERED BY THE CITY DEPARTMENT OF PARKS AND RECREATION. CONTACT THE CITY PROJECT MANAGER AT 48 HOURS IN ADVANCE OF DELIVERY.
19. PLANT QUANTITIES ARE SUPPLIED ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR, IN THE CASE OF A DISCREPANCY, PLAN(S) SHALL GOVERN.


**PERMITTING:**

1. CONTRACTOR IS REQUIRED TO OBTAIN FROM CITY OF RAPID CITY PRIOR TO START OF CONSTRUCTION:
  - a. BUILDING PERMIT
  - b. AIR QUALITY PERMIT
  - c. A PERMIT TO WORK IN RIGHT OF WAY
  - d. EROSION AND SEDIMENT CONTROL PERMIT
2. CONTRACTOR IS REQUIRED TO OBTAIN FROM STATE OF SOUTH DAKOTA (DENR) PRIOR TO START OF CONSTRUCTION:
  - a. STATE WATER POLLUTION PREVENTION PLAN (SWPPP) PERMIT

**NOTE:**

1. ALL CONSTRUCTION STAGING AND STOCK PILING MUST BE WITHIN PROPERTY BOUNDARY LOCATED BELOW
2. ADJACENT PARKING TO SOUTH MAY NOT BE USED / BLOCKED / OR RESTRICTED DURING CONSTRUCTION, EXCEPT AS NECESSARY FOR TEMPORARY MEASURES DURING ACCESSIBLE ROUTE PLANTING ISLAND REMODEL.
3. DELIVERY AND ACCESS ROUTES AS FOLLOWS:
  - a. N. 3RD TO DENVER
  - b. N. 1ST TO DENVER






Public Works Department

**Wyss Associates, Inc.**  
 Landscape Architecture  
 Civil Course Architecture  
 Parks & Recreation Design

1725 South Street - Rapid City, South Dakota 57701-3870  
 Fax: 605.343.3200 - Email: info@wyssassociates.com



DESIGNED BY: MCF / PHW  
 DRAWN BY: CMW / AKW  
 DESIGN DATE: FEB. 2010  
 PRINT DATE: 02-25-10  
 INTERNAL JOB NO: 05113.2  
 SURVEYED BY: FMG, Inc.  
 SURVEY DATE: AUG. 2009

**POWOW GARDENS & ART MARKET**

CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES

Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not own the liability, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Expressing Approval: \_\_\_\_\_ Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

Sheet Title: GENERAL NOTES

Sheet: **T1 of 32**



Public Works Department

Prepared By  
**Wyss Associates, Inc.**  
 Landscape Architecture  
 Golf Course Architecture  
 Parks & Recreation Design  
 728 North Street  
 Rapid City, South Dakota 57701-3870  
 Phone: 605-342-8000  
 Email: info@wyssassociates.com

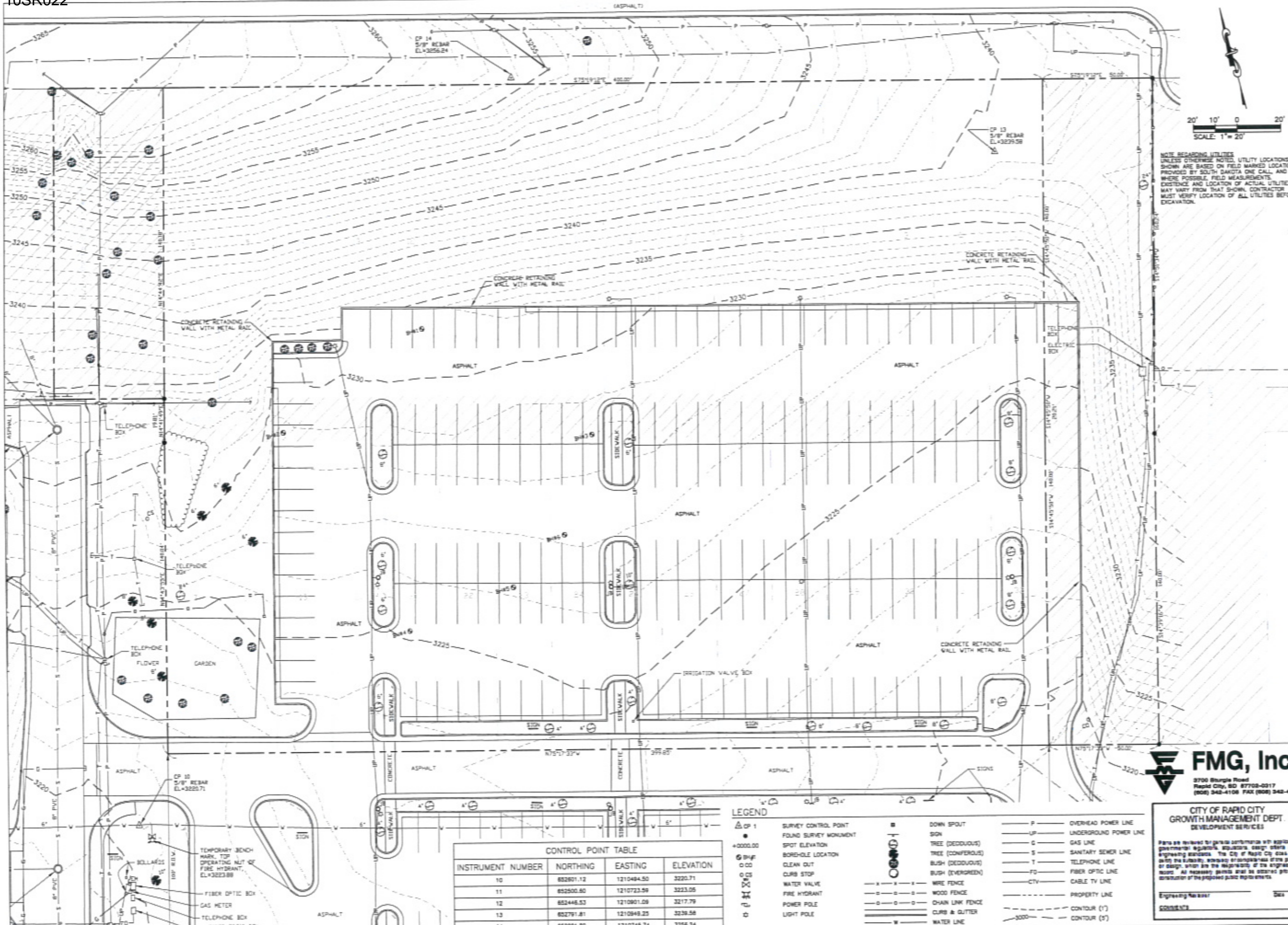


Designed By: MDF / PMW  
 Drawn By: CMW / AKW  
 Design Date: FEB 2010  
 Print Date: 02-26-10  
 Internal Job No: 051132  
 Surveyed By: FMG, Inc.  
 Survey Date: AUG 2009  
 Revisions:

**POWOW GARDENS & ART MARKET**

PROJECT NO. RC08-10500010

Sheet Title: SURVEY CONTROL PLAN  
 Sheet: **T2** of 32



NOTE REGARDING UTILITIES  
 UNLESS OTHERWISE NOTED, UTILITY LOCATIONS SHOWN ARE BASED ON FIELD MARKED LOCATIONS PROVIDED BY SOUTH DAKOTA ONE CALL, AND WHERE POSSIBLE, FIELD MEASUREMENTS. EXISTENCE AND LOCATION OF ACTUAL UTILITIES MAY VARY FROM THAT SHOWN. CONTRACTOR MUST VERIFY LOCATION OF ALL UTILITIES BEFORE EXCAVATION.

SCALE: 1" = 20'

**FMG, Inc.**  
 3700 Sturgis Road  
 Rapid City, SD 57702-0917  
 (605) 342-4106 FAX (605) 342-4222

**CITY OF RAPID CITY**  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES

Plans are prepared to provide information with applicable governmental regulations, specifications, design criteria and engineering standards. The City of Rapid City does not warrant the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer or architect. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Worksheet: \_\_\_\_\_ Date: \_\_\_\_\_  
 Comments:

- LEGEND**
- ▲ OF 1 SURVEY CONTROL POINT
  - FOUND SURVEY MONUMENT
  - +0000.00 SPOT ELEVATION
  - BHP BORHOLE LOCATION
  - 00 CLEAN OUT
  - 05 CURB STOP
  - 10 WATER VALVE
  - 15 FIRE HYDRANT
  - 20 POWER POLE
  - 25 LIGHT POLE
  - DOWN SPOUT
  - SIGN
  - TREE (DECIDUOUS)
  - TREE (CONIFEROUS)
  - BUSH (DECIDUOUS)
  - BUSH (EVERGREEN)
  - WIRE FENCE
  - WOOD FENCE
  - CHAIN LINK FENCE
  - CURB & GUTTER
  - WATER LINE
  - F OVERHEAD POWER LINE
  - U UNDERGROUND POWER LINE
  - G GAS LINE
  - S SANITARY SEWER LINE
  - T TELEPHONE LINE
  - FO FIBER OPTIC LINE
  - CTV CABLE TV LINE
  - P PROPERTY LINE
  - CONTOUR (1')
  - CONTOUR (2')

**CONTROL POINT TABLE**

INSTRUMENT NUMBER	NORTHING	EASTING	ELEVATION
10	852801.12	1210484.50	3220.71
11	852500.80	1210723.59	3223.05
12	852445.53	1210801.08	3217.79
13	852791.81	1210949.25	3238.58
14	852881.80	1210745.74	3256.24

TEMPORARY BENCH MARK, TOP OPERATING NUT OF FIRE HYDRANT, EL=3223.89  
 FIBER OPTIC BOX  
 GAS METER  
 TELEPHONE BOX  
 FIBER OPTIC BOX



Prepared For  
**Wyss Associates, Inc.**  
 Landscape Architecture  
 Golf Course Architecture  
 Parks & Recreation Design  
 128 South Street - Rapid City, South Dakota 57701-3870  
 P.O. Box 342220 - Rapid City, SD 57103-4220  
 Phone: 605.348.0000  
 Fax: 605.348.0000  
 Email: info@wyssassociates.com



Designed By: MDF / PHW	Drawn By: CMW / AKW
Design Date: FEB. 2010	Print Date: 02-26-10
Internal Job No: 05113.2	
Surveyed By: FMG, Inc.	Survey Date: AUG. 2009
Revisions:	

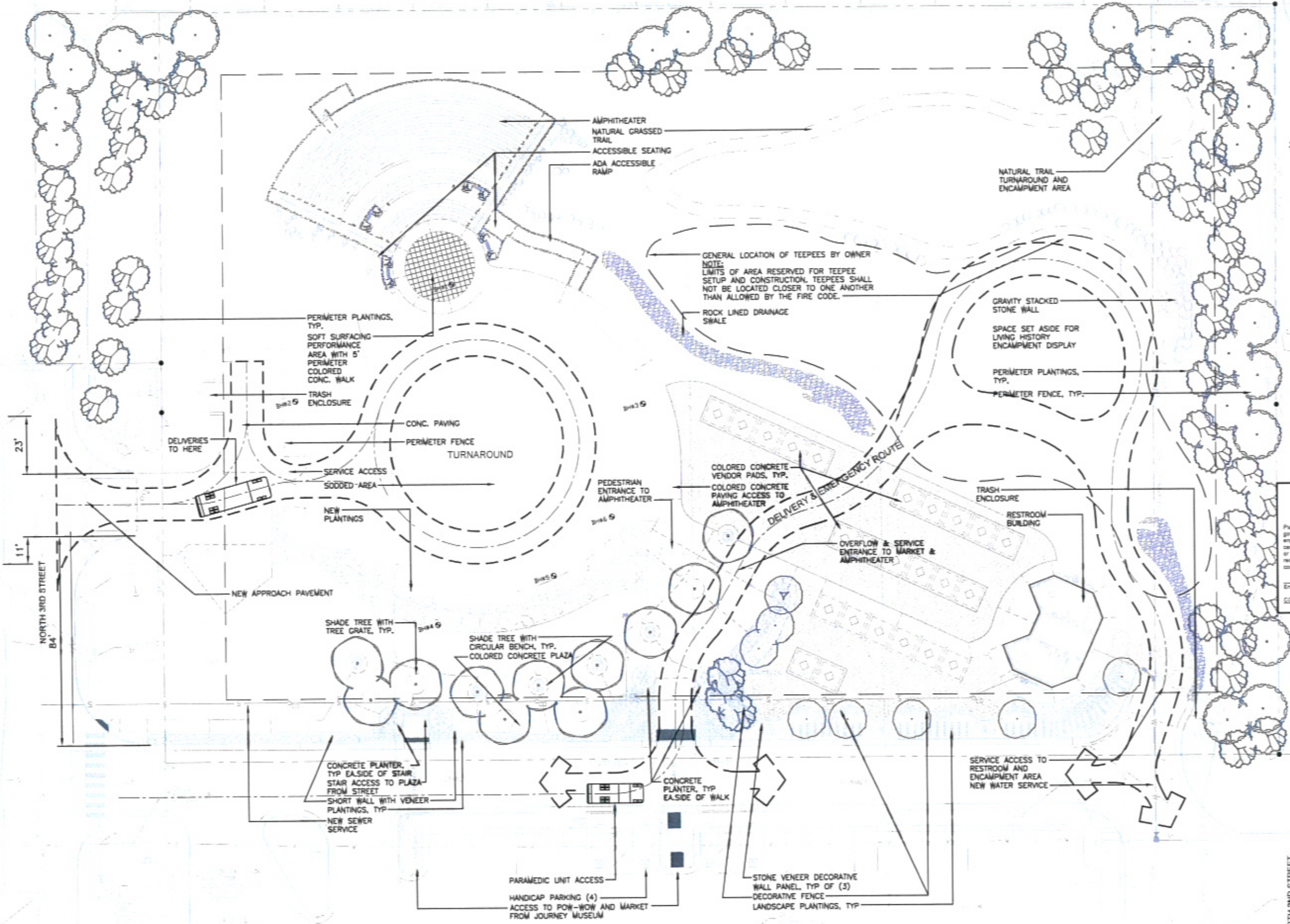
**CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES**

Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

COMMENTS:

**POWOW GARDENS &  
 ART MARKET**



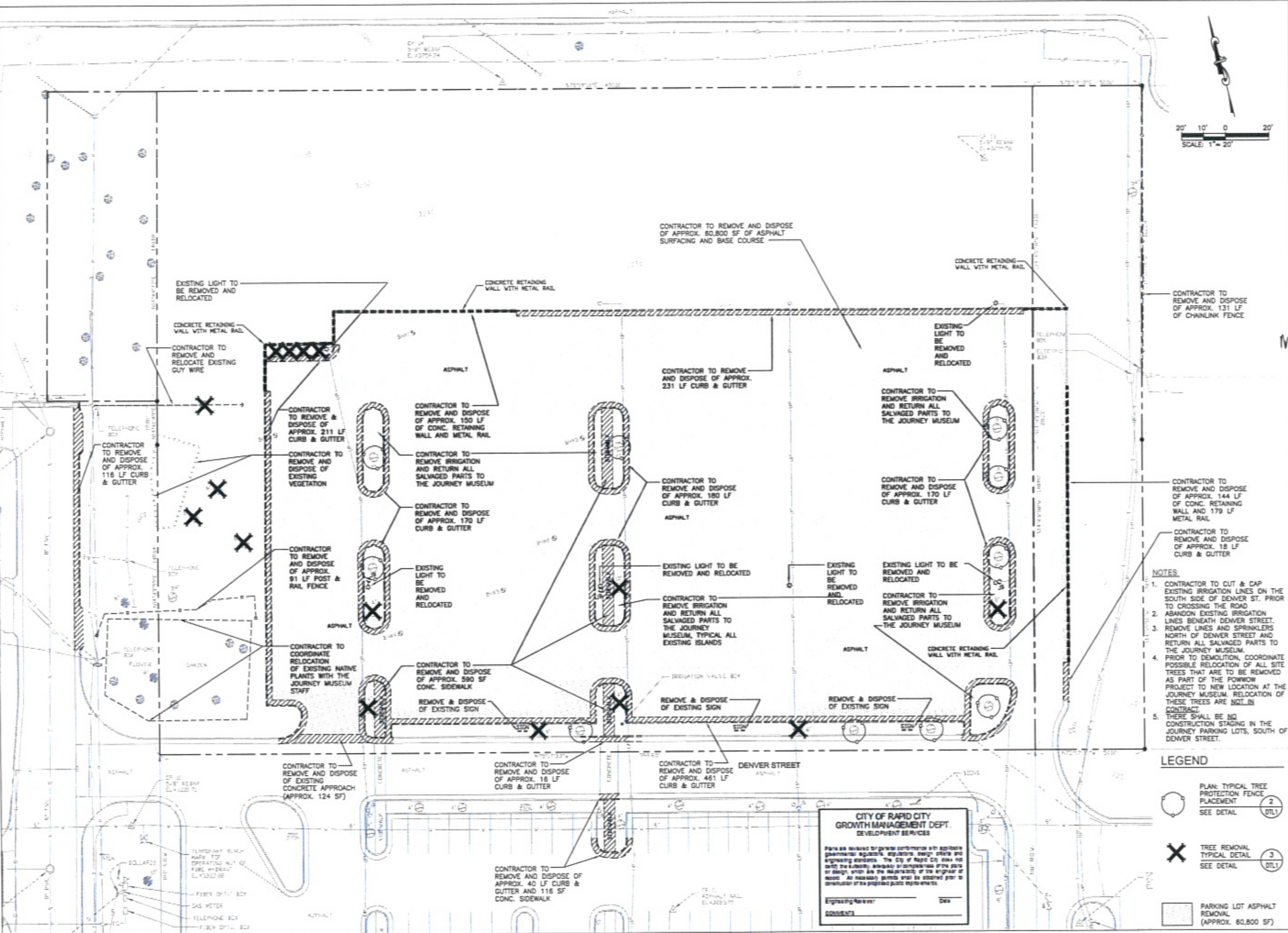
**CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES**

Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

COMMENTS:

PROJECT NO. RC08-18060393



- NOTES**
1. CONTRACTOR TO CUT & CAP EXISTING IRRIGATION LINES ON THE SOUTH SIDE OF DENVER ST. PRIOR TO CROSSING THE ROAD
  2. ABANDON EXISTING IRRIGATION LINES BENEATH DENVER STREET.
  3. REMOVE LINES AND SPRINKLERS NORTH OF DENVER STREET AND RETURN ALL SALVAGED PARTS TO THE JOURNEY MUSEUM.
  4. PRIOR TO DEMOLITION, COORDINATE POSSIBLE RELOCATION OF ALL SITE TREES THAT ARE TO BE REMOVED AS PART OF THE POWWOW PROJECT TO NEW LOCATION AT THE JOURNEY MUSEUM. RELOCATION OF THESE TREES ARE NOT IN CONTRACT.
  5. THERE SHALL BE NO CONSTRUCTION STAGING IN THE JOURNEY PARKING LOTS, SOUTH OF DENVER STREET.

**LEGEND**

	PLAN: TYPICAL TREE PROTECTION FENCE PLACEMENT	2
	SEE DETAIL	(DTL)
	TREE REMOVAL TYPICAL DETAIL	3
	SEE DETAIL	(DTL)
	PARKING LOT ASPHALT REMOVAL (APPROX. 60,800 SF)	

**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

Plans are prepared for general information only. Applicant is responsible for obtaining all necessary permits, approvals, design criteria and engineering standards. The City of Rapid City does not warrant the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_  
Comments: \_\_\_\_\_

Prepared for: Department

Prepared by: **Wyss Associates, Inc.**  
Landscape Architecture  
Parks & Recreation Design  
729 13th Street - Rapid City, South Dakota 57701-3670  
Ph: 605.328.1658 Fax: 605.328.1658  
Email: info@wyssassociates.com

Designed By: MCF / PHW	Drawn By: CMW / AKW
Design Date: FEB. 2010	Print Date: 02-25-10
Internal Job No: 05113.2	
Surveyed By: FMG, Inc.	Survey Date: AUG. 2009
Revisions:	

**POWOW GARDENS & ART MARKET**

Sheet Title: DEMOLITION PLAN

Sheet: **D1** of **32**

PROJECT NO. RCIB-185050783



**F M G, Inc.**  
3700 Sturgis Road  
Rapid City, SD 57702-0317  
(605) 342-4100 FAX (605) 345-4222  
www.fmgengineering.com



**REVIEW DRAWINGS  
NOT FOR  
CONSTRUCTION**

Designed By: JAP	Drawn By: JRK
Design Date: FEB. 2010	Print Date: 02-12-10
Internal Job No: 05113.2	
Surveyed By: FMG, Inc.	Survey Date: AUG. 2009
Revisions:	

**POWOW GARDENS &  
ART MARKET**

PROJECT NO. HD09-185000703

**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

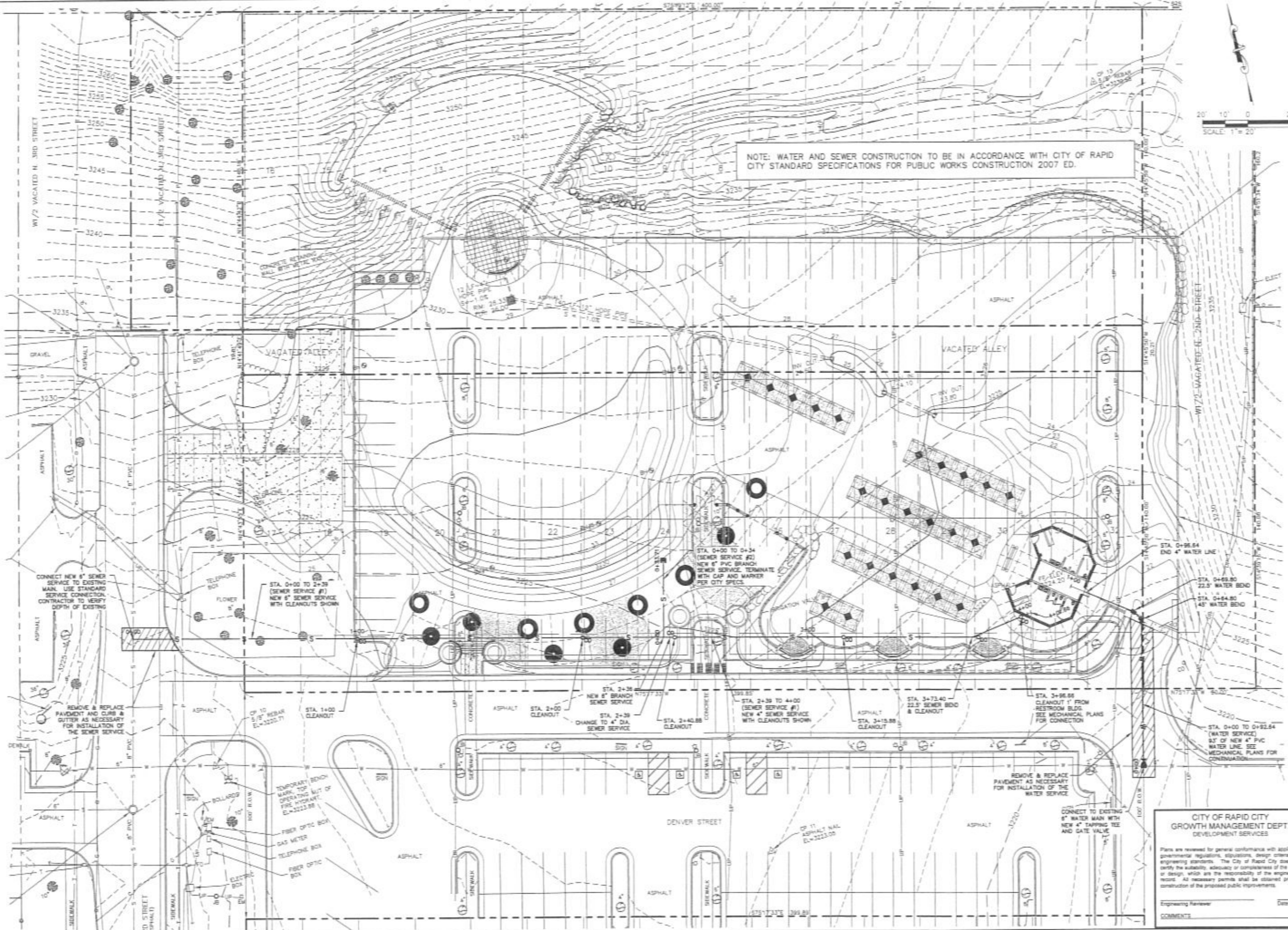
Plans are reviewed for general conformance with applicable governmental regulations, elevations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

COMMENTS

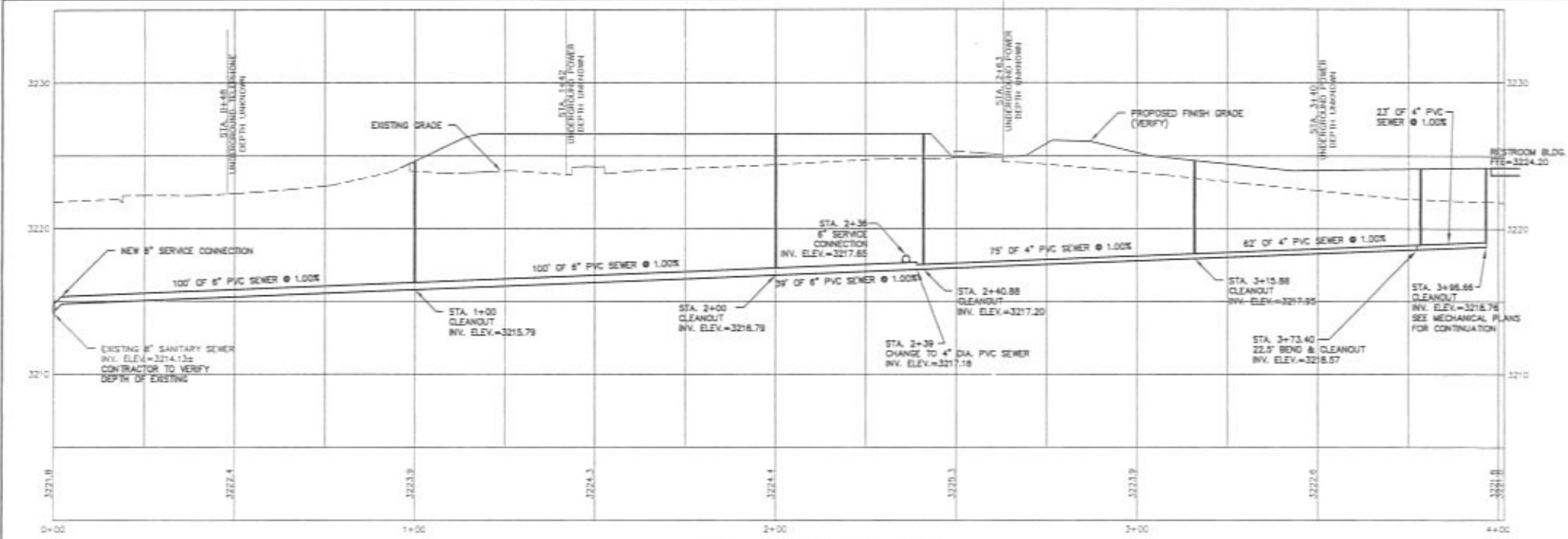
Draw Title:  
**CIVIL LAYOUT  
PLAN**

Sheet:  
**C1 of C2**

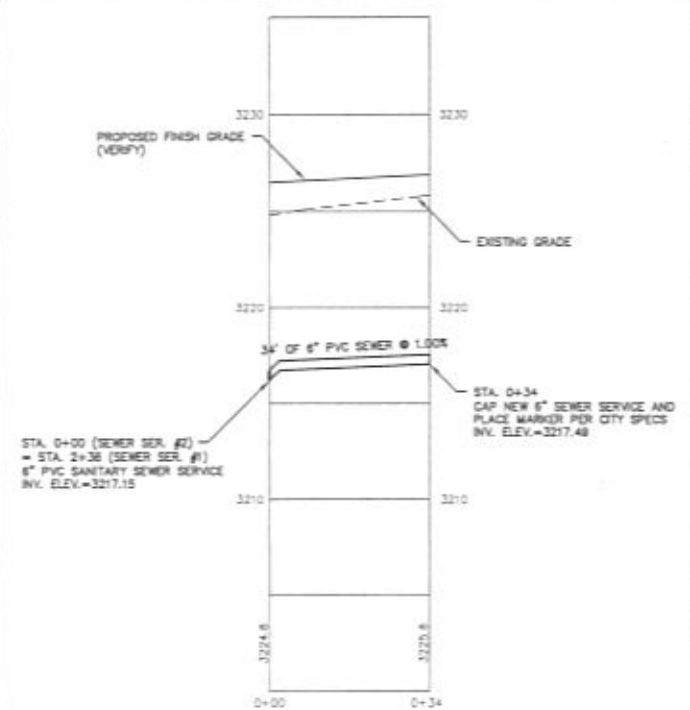


NOTE: WATER AND SEWER CONSTRUCTION TO BE IN ACCORDANCE WITH CITY OF RAPID CITY STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2007 ED.

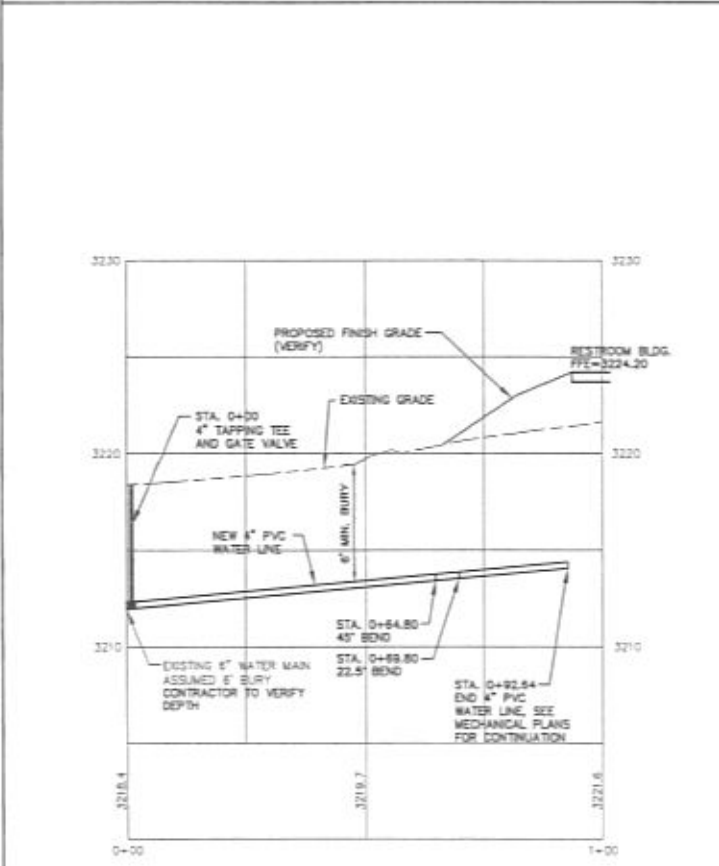




**SEWER SERVICE #1 PROFILE**  
 HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=5'



**SEWER SERVICE #2 PROFILE**  
 HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=5'



**WATER SERVICE PROFILE**  
 HORIZONTAL SCALE: 1"=20'  
 VERTICAL SCALE: 1"=5'

**SEWER SERVICE #1 ALIGNMENT**

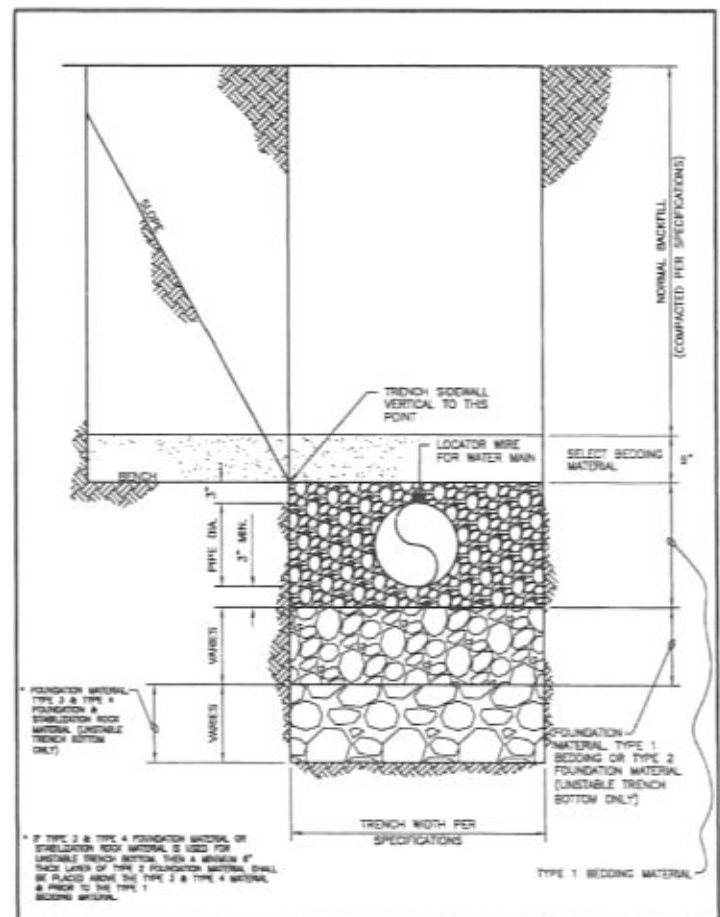
Desc. Station	Spiral/Curve Data	Northing	Easting
PI 0+00	Length: 373.40	Course: S 75-13-09 E	1210473.4957
PI 3+73.40	Length: 28.26 Delta: 22-30-00	Course: N 82-16-51 E	1210834.5432
Tangent Data			
0+00 3+73.40	Length: 373.40	Course: S 75-13-09 E	1210473.4957 1210834.5432
PI 4+01.66	Length: 28.26	Course: N 82-16-51 E	1210862.5423
3+73.40 4+01.66	Length: 28.26	Course: N 82-16-51 E	1210834.5432 1210862.5423

**SEWER SERVICE #2 ALIGNMENT**

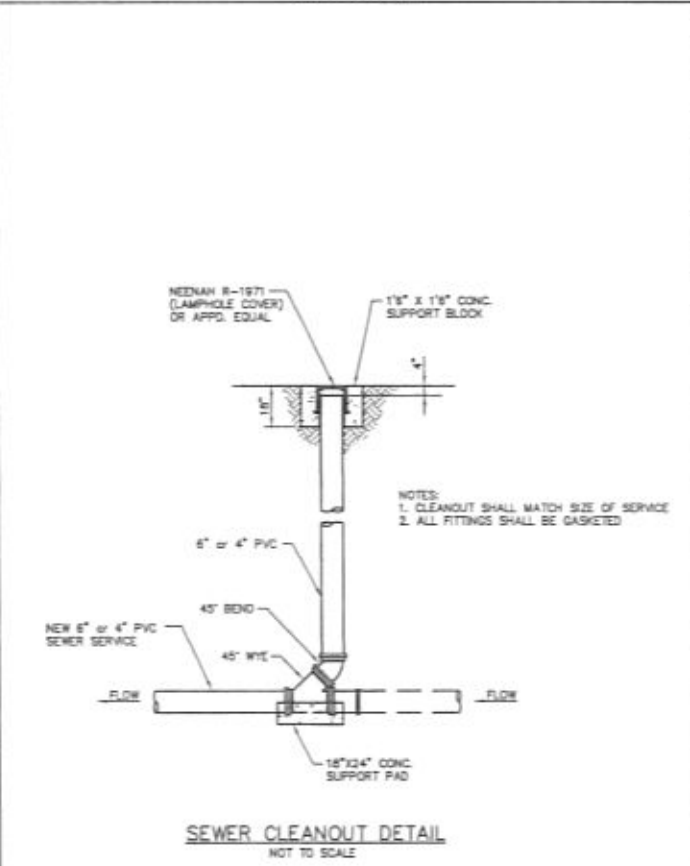
Desc. Station	Spiral/Curve Data	Northing	Easting
PI 0+00	Length: 33.71	Course: N 14-46-51 E	1210701.7017
PI 0+33.71	Length: 33.71	Course: N 14-46-51 E	1210710.3017
Tangent Data			
0+00 0+33.71	Length: 33.71	Course: N 14-46-51 E	1210701.7017 1210710.3017

**WATER SERVICE ALIGNMENT**

Desc. Station	Spiral/Curve Data	Northing	Easting
PI 0+00	Length: 64.80	Course: N 14-13-06 E	1210853.4901
PI 0+64.80	Length: 5.00 Delta: 45-00-00	Course: N 30-46-54 W	1210908.4123
Tangent Data			
0+00 0+64.80	Length: 64.80	Course: N 14-13-06 E	1210853.4901 1210908.4123
PI 0+69.80	Length: 30.19 Delta: 22-31-11	Course: N 53-18-05 W	1210906.8530
0+64.80 0+69.80	Length: 5.00	Course: N 30-46-54 W	1210908.4123 1210906.8530
PI 1+00	Length: 30.19	Course: N 53-18-05 W	1210882.6438
0+69.80 1+00	Length: 30.19	Course: N 53-18-05 W	1210906.8530 1210882.6438



**TRENCH DETAIL FOR WATER & SEWER MAIN**  
 CITY OF RAPID CITY PUBLIC WORKS DEPARTMENT  
 DATE: 5-1-07  
 SEC. 11-3



**SEWER CLEANOUT DETAIL**  
 NOT TO SCALE

**CITY OF RAPID CITY**  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES

Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

Prepared For: **PUBLIC WORKS DEPARTMENT**  
**CITY OF RAPID CITY**

Prepared By: **F M G, Inc.**  
 3700 Sturgis Road  
 Rapid City, SD 57702-0317  
 (605) 342-4105 FAX (605) 342-4222  
 www.fmgengineering.com

**REVIEW DRAWINGS NOT FOR CONSTRUCTION**

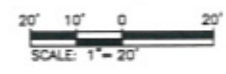
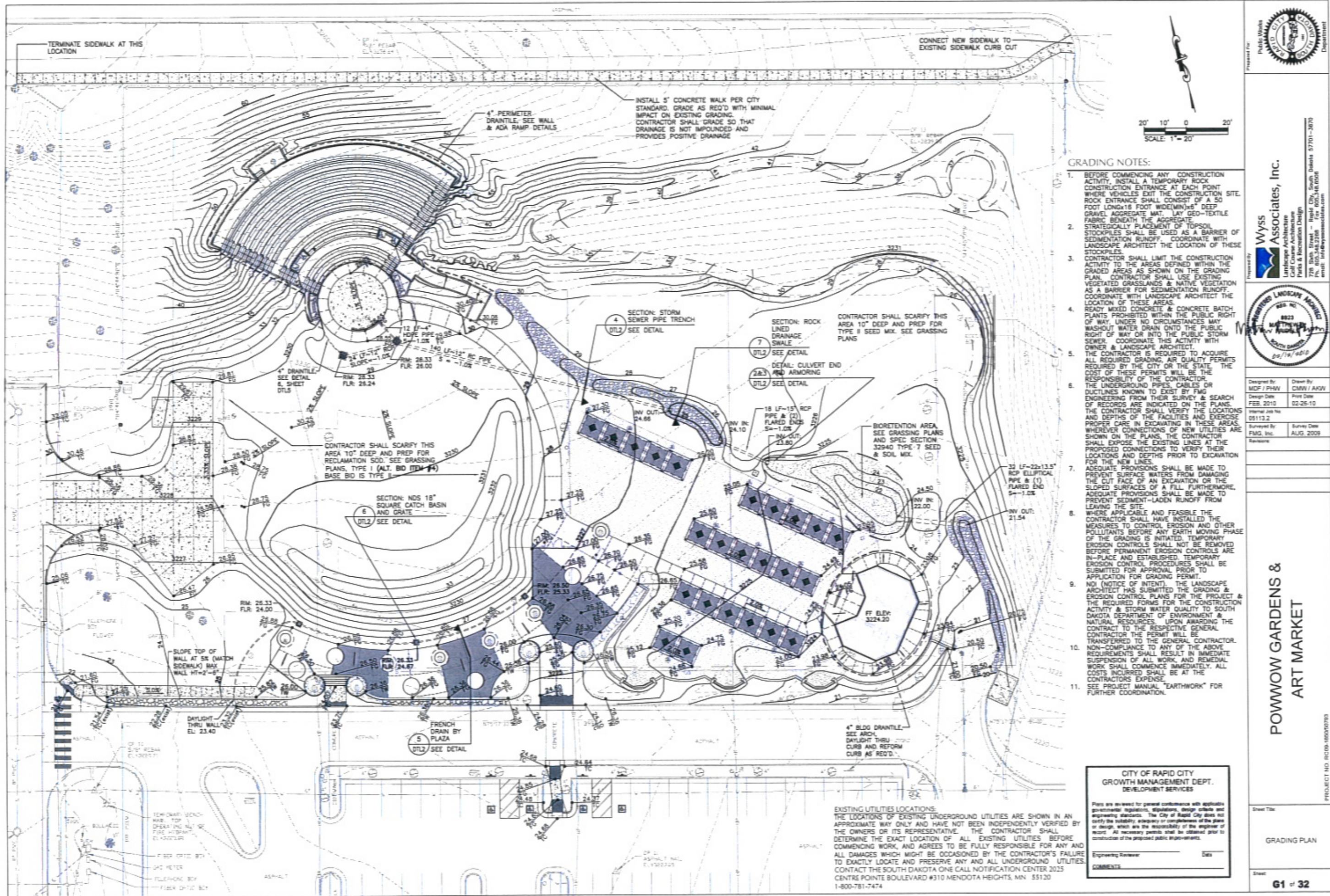
Designed By: JAP	Drawn By: JJK
Design Date: FEB. 2010	Print Date: 02-12-10
Internal Job No: 05113.2	
Surveyed By: FMG, Inc.	Survey Date: AUG. 2009
Revisions:	

**POWOW GARDENS & ART MARKET**

Sheet Title: **CIVIL DETAILS**

Sheet No: **C2 of C2**

PROJECT NO. R009-160090703



**GRADING NOTES:**

1. BEFORE COMMENCING ANY CONSTRUCTION ACTIVITY, INSTALL A TEMPORARY ROCK CONSTRUCTION ENTRANCE AT EACH POINT WHERE VEHICLES EXIT THE CONSTRUCTION SITE. ROCK ENTRANCE SHALL CONSIST OF A 50 FOOT LONGx18 FOOT WIDE(MIN)x6\"/>
- 2. CONTRACTOR SHALL LIMIT THE CONSTRUCTION ACTIVITY TO THE AREAS DEFINED WITHIN THE GRADED AREAS AS SHOWN ON THE GRADING PLAN. CONTRACTOR SHALL USE EXISTING VEGETATED GRASSLANDS & NATIVE VEGETATION AS A BARRIER FOR SEDIMENTATION RUNOFF. COORDINATE WITH LANDSCAPE ARCHITECT THE LOCATION OF THESE STOCKPILES.
- 3. READY MIXED CONCRETE & CONCRETE BATCH PLANTS PROHIBITED WITHIN THE PUBLIC RIGHT OF WAY UNDER NO CIRCUMSTANCES MAY WASHOUT WATER DRAIN ONTO THE PUBLIC RIGHT OF WAY OR INTO THE PUBLIC STORM SEWER. COORDINATE THIS ACTIVITY WITH OWNER & LANDSCAPE ARCHITECT.
- 4. THE CONTRACTOR IS REQUIRED TO ACQUIRE ALL REQUIRED GRADING, AIR QUALITY PERMITS REQUIRED BY THE CITY OR THE STATE. THE COST OF THESE PERMITS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE UNDERGROUND PIPES, CABLES OR DUCTLINES KNOWN TO EXIST BY FMG ENGINEERING FROM THEIR SURVEY & SEARCH OF RECORDS ARE INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND DEPTHS OF THE FACILITIES AND EXERCISE PROPER CARE IN EXCAVATING IN THESE AREAS. WHEREVER CONNECTIONS OF NEW UTILITIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL EXPOSE THE EXISTING LINES AT THE PROPOSED CONNECTIONS TO VERIFY THEIR LOCATIONS AND DEPTHS PRIOR TO EXCAVATION FOR THE NEW LINES.
- 5. ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SURFACE WATERS FROM DAMAGING THE CUT FACE OF AN EXCAVATION OR THE SLOPED SURFACES OF A FILL. FURTHERMORE, ADEQUATE PROVISIONS SHALL BE MADE TO PREVENT SEDIMENT-LADEN RUNOFF FROM LEAVING THE SITE.
- 6. WHERE APPLICABLE AND FEASIBLE THE CONTRACTOR SHALL HAVE INSTALLED THE MEASURES TO CONTROL EROSION AND OTHER POLLUTANTS BEFORE ANY EARTH MOVING PHASE OF THE GRADING IS INITIATED. TEMPORARY EROSION CONTROLS SHALL NOT BE REMOVED BEFORE PERMANENT EROSION CONTROLS ARE IN-PLACE AND ESTABLISHED. TEMPORARY EROSION CONTROL PROCEDURES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO APPLICATION FOR GRADING PERMIT.
- 7. NOTICE OF INTENT, THE LANDSCAPE ARCHITECT HAS SUBMITTED THE GRADING & EROSION CONTROL PLANS FOR THE PROJECT & THE REQUIRED FORMS FOR THE CONSTRUCTION ACTIVITY & STORM WATER QUALITY TO SOUTH DAKOTA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES. UPON AWARDED THE CONTRACT TO THE RESPECTIVE GENERAL CONTRACTOR THE PERMIT WILL BE TRANSFERRED TO THE GENERAL CONTRACTOR. NON-COMPLIANCE TO ANY OF THE ABOVE REQUIREMENTS SHALL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK, AND REMEDIAL WORK SHALL COMMENCE IMMEDIATELY. ALL COSTS INCURRED SHALL BE AT THE CONTRACTOR'S EXPENSE.
- 8. SEE PROJECT MANUAL "EARTHWORK" FOR FURTHER COORDINATION.

**EXISTING UTILITIES LOCATIONS:**  
 THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNERS OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTACT THE SOUTH DAKOTA ONE CALL NOTIFICATION CENTER 2025 CENTRE POINTE BOULEVARD #310 MENDOTA HEIGHTS, MN 55120 1-800-781-7474

**CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES**

Plans are reviewed for general conformance with applicable governmental regulations, ordinances, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Review: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Presented For: **PUBLIC WORKS DEPARTMENT**

Prepared By: **Wyss Associates, Inc.**  
 Landscape Architecture  
 Parks & Recreation Design  
 728 South Street - Rapid City, South Dakota 57701-3070  
 Ph. 605.348.2268 Fax 605.348.0508  
 email: info@wyssassociates.com

Designed By: MCF / PMV Drawn By: CMW / AKW  
 Design Date: FEB 2010 Print Date: 02-25-10  
 Internal Job No: 051132  
 Surveyed By: FMG, Inc. Survey Date: AUG 2005  
 Revisions: \_\_\_\_\_

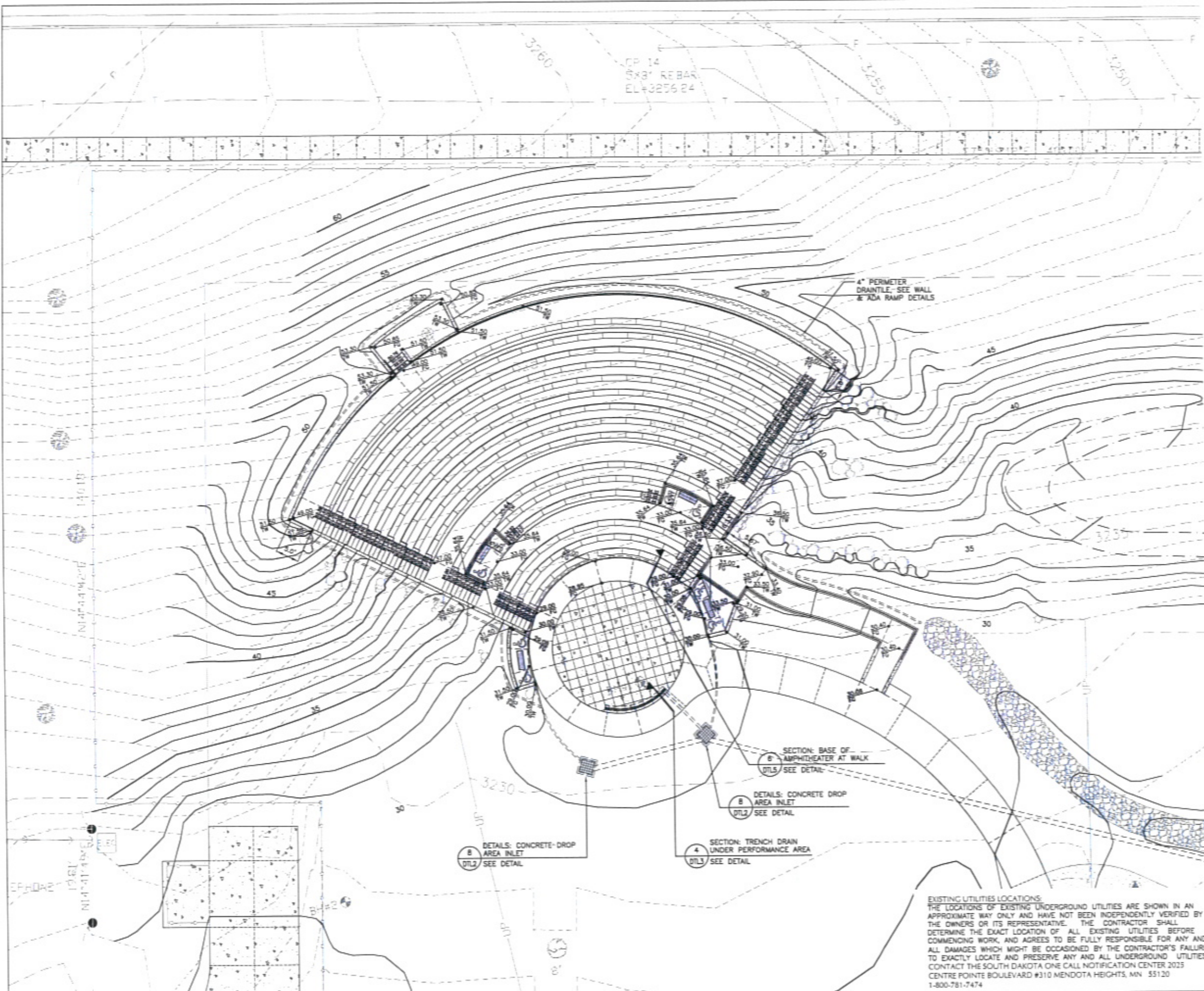
**POWOW GARDENS & ART MARKET**

Sheet Title: **GRADING PLAN**

Sheet: **G1 of 32**

PROJECT NO. RC109-160060793





Prepared For  
**WYSS Associates, Inc.**  
 Landscape Architecture  
 Golf Course Architecture  
 Parks & Recreation Design  
 728 South Street - Rapid City, South Dakota 57701-3070  
 PH: 605.342.2706 Fax: 605.342.0506  
 email: info@wyssassociates.com



Designed By MCF / PHW	Drawn By CMW / AKW
Design Date FEB. 2010	Print Date 02-25-10
Internal Job No. 05113.2	
Surveyed By FMG, Inc.	Survey Date AUG. 2009
Revisions:	













**CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES**

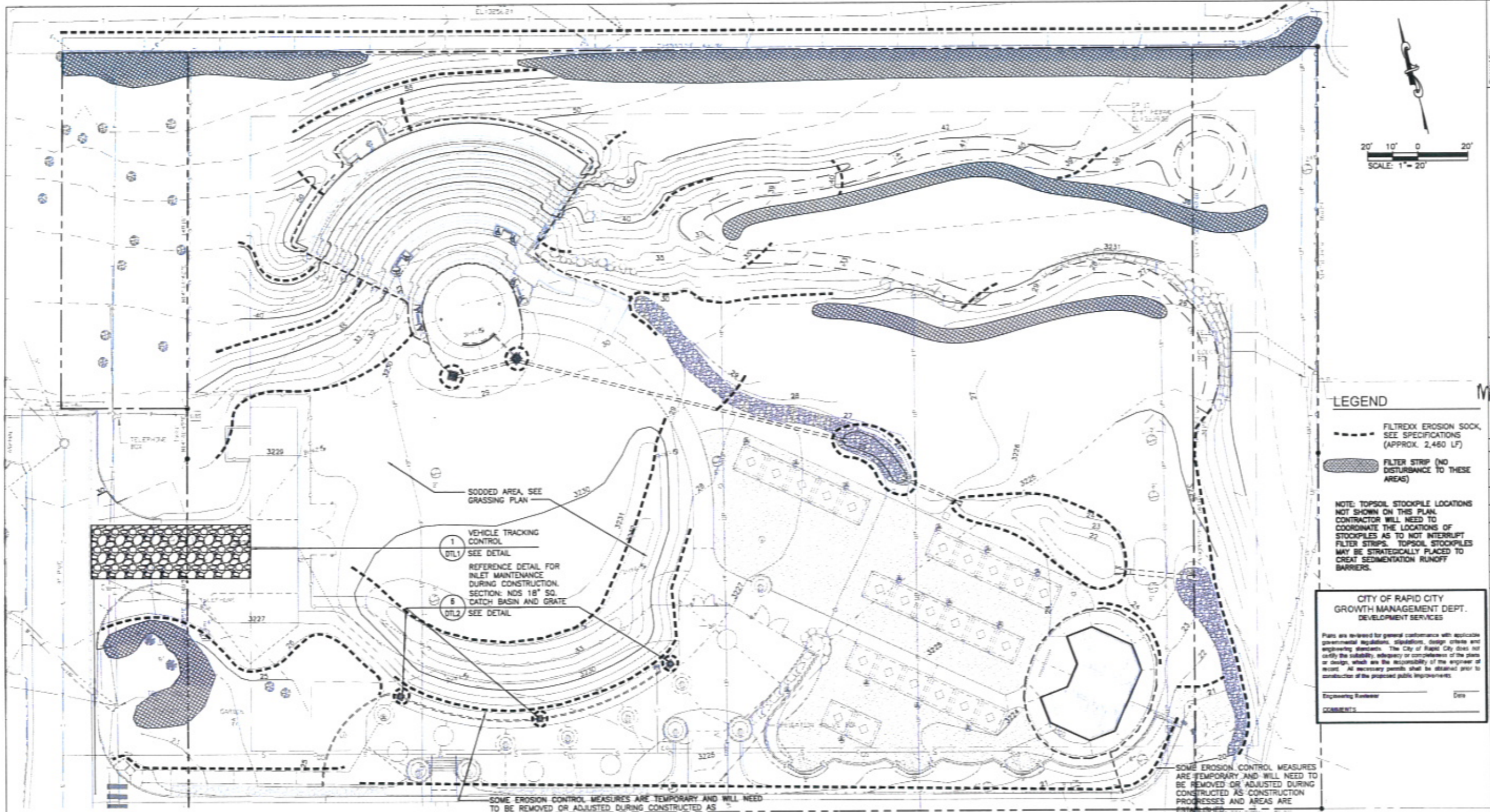
Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer \_\_\_\_\_ Date \_\_\_\_\_

COMMENTS \_\_\_\_\_

**EXISTING UTILITIES LOCATIONS:**  
 THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNERS OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTACT THE SOUTH DAKOTA ONE CALL NOTIFICATION CENTER 2025 CENTRE POINTE BOULEVARD #310 MENDOTA HEIGHTS, MN 55120 1-800-781-7474

**POWOW GARDENS &  
 ART MARKET**



**LEGEND**

- FILTERDREX EROSION SOCK, SEE SPECIFICATIONS (APPROX. 2,460 LF)
- ▨ FILTER STRIP (NO DISTURBANCE TO THESE AREAS)

**NOTE: TOPSOIL STOCKPILE LOCATIONS NOT SHOWN ON THIS PLAN. CONTRACTOR WILL NEED TO COORDINATE THE LOCATIONS OF STOCKPILES AS TO NOT INTERRUPT FILTER STRIPS. TOPSOIL STOCKPILES MAY BE STRATEGICALLY PLACED TO GREAT SEDIMENTATION RUNOFF BARRIERS.**

**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

Plans are reviewed for general conformance with applicable governmental regulations, standards, design codes and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Engineer: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_

**GENERAL NOTES REGARDING THE EROSION CONTROL PLAN**

- BEFORE COMMENCING CONSTRUCTION, INSTALL A TEMPORARY ROCK CONSTRUCTION ENTRANCE AT EACH POINT WHERE VEHICLES EXIT THE CONSTRUCTION SITE. ROCK ENTRANCE SHALL CONSIST OF A 50 FOOT LONG X 15 FOOT WIDE (MIN) X 8" DEEP 3/4" GRAVEL AGGREGATE MAT (SEE DETAIL 2 SHEET LS.0). LAY GEO-TEXTILE FABRIC BENEATH THE AGGREGATE, ALSO PRIOR TO CONSTRUCTION ACTIVITY. CONTRACTOR SHALL LOCATE & PROTECT EXISTING TREES TO REMAIN. PROTECT TREES TO REMAIN AS IDENTIFIED ON THE DEMOLITION PLAN.
- MAINTAIN ALL TEMPORARY EROSION & SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. INSPECT TEMPORARY EROSION & SEDIMENT CONTROL DEVICES ON A DAILY BASIS & REPLACE DETERIORATED, DAMAGED, OR ROTTED EROSION CONTROL DEVICES IMMEDIATELY. CONTRACTOR IS RESPONSIBLE FOR UPKEEP OF EROSION CONTROL MEASURES THROUGHOUT CONSTRUCTION ACTIVITY & THE REMOVAL OF EROSION CONTROL DEVICES WHEN THE AREA HAS BEEN RE-VEGETATED AND THE EROSION CONTROL DEVICES ARE NO LONGER NEEDED.
- STRATEGICALLY PLACE TOPSOIL STOCKPILES AS A BARRIER OF SEDIMENTATION RUNOFF. COORDINATE WITH LANDSCAPE ARCHITECT THE LOCATION OF THESE STOCKPILES.
- CONTRACTOR SHALL LIMIT THE CONSTRUCTION ACTIVITY TO THE AREAS DEFINED WITHIN THE GRADED AREAS AS SHOWN ON THE GRADING PLAN. CONTRACTOR SHALL USE EXISTING VEGETATED AREAS & NATIVE VEGETATION AS A BARRIER FOR SEDIMENTATION RUNOFF. COORDINATE WITH LANDSCAPE ARCHITECT THE LOCATION OF THESE AREAS.
- IF ADDITIONAL EROSION CONTROL IS REQUIRED CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL OF TEMPORARY SYNTHETIC, STRUCTURAL, NON-BIODEGRADABLE EROSION & SEDIMENT CONTROL DEVICES AFTER THE SITE HAS UNDERGONE FINAL STABILIZATION & PERMANENT VEGETATION HAS BEEN ESTABLISHED. MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES UNTIL ESTABLISHED COVER IS ACHIEVED.
- READY MIXED CONCRETE & CONCRETE BATCH PLANTS PROHIBITED WITHIN THE PUBLIC RIGHT OF WAY. UNDER NO CIRCUMSTANCES MAY WASHOUT WATER DRAIN ONTO THE PUBLIC RIGHT OF WAY OR INTO THE PUBLIC STORM SEWER. COORDINATE THIS ACTIVITY WITH OWNER & LANDSCAPE ARCHITECT.
- ALL LIQUID WASTE MATERIALS WILL BE COLLECTED, STORED & SEALED IN SEALED METAL CONTAINERS APPROVED BY THE OWNER'S REPRESENTATIVE. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN APPROVED CONTAINERS. CONTAINERS WILL BE SERVICED AS NECESSARY, AND THE TRASH WILL BE HAULED OFF TO AN APPROVED DISPOSAL SITE OR LICENSED LANDFILL. ALL ON-SITE PERSONNEL WILL BE INSTRUCTED WITH THE PROPER PROCEDURES FOR WASTE DISPOSAL AND NOTICES STATING THE PROPER PRACTICES WILL BE POSTED IN THE FIELD OFFICE. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE PRACTICES ON SITE WITH ALL WORKERS ON THE JOB SITE.
- ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER SPECIFIED BY THE LOCAL AND STATE REGULATIONS AND IN SOME CASES BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
- PORTABLE SANITARY WASTE FACILITIES WILL BE PROVIDED ON THE CONSTRUCTION SITE. SANITARY WASTE WILL BE COLLECTED FROM THE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL OR STATE REGULATIONS.
- SITE OBSERVATIONS SHALL BE CONDUCTED BY THE OWNER'S REPRESENTATIVE ONCE A WEEK AND AFTER ANY STORM EVENT THAT PRODUCED 0.5" OR GREATER.
- ALL SEEDING AREAS WILL BE CHECKED FOR BARE SPOTS, WASHOUTS AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS. CONTRACTOR SHALL REPLACE OR REPAIR THESE AREAS FOR MAXIMUM SEED STABILITY AND PRODUCTION AT NO ADDITIONAL COST TO THE OWNER.
- MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GRASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND.
- POTENTIAL PH-MOOFING MATERIALS SUCH AS: BULK CEMENT, CEMENT KILN DUST, FLY ASH, NEW CONCRETE WASHINGS, CONCRETE PUMPING, AND MIXER WASHOUT WATERS WILL BE COLLECTED ON SITE AND MANAGED TO PREVENT CONTAMINATION OF STORM WATER RUNOFF.
- ALL ON-SITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.
- FERTILIZERS WILL BE APPLIED ONLY IN THE AMOUNTS AS INDICATED IN PROJECT SPECIFICATIONS MANUAL. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT THE EXPOSURE TO STORM WATER. FERTILIZERS WILL BE STORED IN AN ENCLOSED AREA. THE CONTENTS OF PARTIALLY USED FERTILIZER BAGS WILL BE TRANSFERRED TO SEALABLE CONTAINERS TO AVOID SPILLS. CONTRACTORS WILL PROVIDE DESIGNATED TRUCK WASHOUT AREAS ON THE SITE. THESE AREAS MUST BE SELF CONTAINED & NOT CONNECTED TO ANY STORM WATER OUTLET OF THE SITE. UPON COMPLETION OF CONSTRUCTION WASHOUT AREAS WILL BE PROPERLY STABILIZED.
- IN ADDITION TO THE PREVIOUS HOUSEKEEPING & MANAGEMENT PRACTICES, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION & CLEANUP IF NEEDED.
  - FOR ALL HAZARDOUS MATERIALS STORED ON SITE, THE MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEAN UP WILL BE CLEARLY POSTED.
  - SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES & THE LOCATIONS OF THE INFORMATION & CLEANUP SUPPLIES. APPROPRIATE CLEANUP MATERIALS & EQUIPMENT WILL BE MAINTAINED BY THE CONTRACTOR IN THE MATERIALS STORAGE AREA ON-SITE, AS APPROPRIATE. EQUIPMENT & MATERIALS MAY INCLUDE ITEMS SUCH AS BOOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SANDWICH, & PLASTIC & METAL TRASH CONTAINERS SPECIFICALLY FOR CLEAN UP PURPOSES.
  - ALL SPILLS WILL BE CLEANED IMMEDIATELY AFTER DISCOVERY & THE MATERIALS DISPOSED OF PROPERLY.
  - THE SPILL AREA WILL BE KEPT WELL VENTILATED & PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE. AFTER A SPILL A REPORT WILL BE PREPARED DESCRIBING THE SPILL, WHAT CAUSED IT, & THE CLEANUP MEASURES TAKEN. THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING, AS WELL AS CLEAN UP INSTRUCTIONS IN THE EVENT OF REOCCURRENCE.
  - THE CONTRACTOR'S SITE SUPERINTENDENT, RESPONSIBLE FOR DAY-TO-DAY OPERATIONS, WILL BE THE SPILL PREVENTION & CLEANUP COORDINATOR. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE SUPERINTENDENT HAS HAD APPROPRIATE TRAINING FOR HAZARDOUS MATERIALS HANDLING, SPILL MANAGEMENT, AND CLEANUP.
  - THE PRIMARY OBJECTIVE IN RESPONDING TO A SPILL IS TO QUICKLY CONTAIN THE MATERIAL AND PREVENT OR MINIMIZE MIGRATION INTO STORM WATER RUNOFF AND CONVEYANCE SYSTEMS. IF THE RELEASE HAS IMPACTED ON-SITE STORM WATER, IT IS CRITICAL TO CONTAIN THE RELEASED MATERIALS ON-SITE AND PREVENT THEIR RELEASE INTO RECEIVING WATERS. IF A SPILL OF POLLUTANTS THREATENS STORM WATER OR SURFACE WATER AT THE SITE, THE SPILL RESPONSE PROCEDURES OUTLINED BELOW MUST BE IMPLEMENTED IN A TIMELY MANNER TO PREVENT THE RELEASE OF POLLUTANTS. THE CONTRACTOR'S SITE SUPERINTENDENT WILL BE NOTIFIED IMMEDIATELY WHEN A SPILL OR THE THREAT OF A SPILL IS OBSERVED. THE SUPERINTENDENT WILL ASSESS THE SITUATION AND DETERMINE THE APPROPRIATE RESPONSE.
  - IF SPILLS REPRESENT AN IMMINENT THREAT OF ESCAPING EROSION AND SEDIMENT CONTROLS & ENTERING RECEIVING WATERS, PERSONNEL WILL BE DIRECTED TO RESPOND IMMEDIATELY TO CONTAIN THE RELEASE & NOTIFY THE SUPERINTENDENT AFTER THE SITUATION HAS BEEN STABILIZED.
  - WHEN CHANGES ARE MADE TO THE CONSTRUCTION PROJECT THAT WILL REQUIRE ALTERATIONS IN THE TEMPORARY EROSION CONTROLS OF THE SITE, THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE AMENDED TO PROVIDE APPROPRIATE PROTECTION TO DISTURBED AREAS, ALL STORM WATER STRUCTURES, & ADJACENT WATERS. COPIES OF FORMS & THE SWPPP WILL BE RETAINED IN A DESIGNATED PLACE FOR REVIEW OVER THE COURSE OF THE PROJECT.



Presented by  
**WYSS ASSOCIATES, Inc.**  
Landscape Architecture  
Civil & Recreation Design  
728 South Street - Rapid City, South Dakota 57701-3670  
PH: 605.348.2266 Fax: 605.348.6508  
email: info@wyssassociates.com



Designed by MCF / PHW	Drawn by CMW / AKW
Design Date FEB 2010	Print Date 02-25-10
Internal Job No. 05113.2	Survey Date AUG 2009
Surveyed by FMG, Inc.	Revisions

**POWOW GARDENS &  
ART MARKET**

PROJECT NO. RC018-10050703

Draw Title: **EROSION CONTROL PLAN**

Draw: **ER1 of 32**

EROSION CONTROL REPORT

OWNERS: ALLIANCE OF TRIBAL TOURISM ADVOCATES (A.T.T.A.) CITY OF RAPID CITY

TRAIL CONTRACTOR: TO BE DETERMINED

EROSION CONTROL CONSULTANT: WYSS ASSOCIATES, INC. 728 SIXTH STREET RAPID CITY, SD 57701

PROJECT DESCRIPTION: THE PROJECT IS OUTDOOR MARKETPLACE AND AMPHITHEATER WHOSE MAJOR AMENITIES ARE AN OUTDOOR AMPHITHEATER WITH PERFORMANCE AREA, A RESTROOM, VENDOR SPACES, AN OUTDOOR PLAZA, INTERPRETIVE AREAS AND WALKING TRAIL.

THE PROJECT IS LOCATED IN LOT 1-15 & N1/2 VAC 2ND ST ABUTTING LOTS 1 & E1/2 OF THAT PORTION OF VAC 3RD ST ABUTTING LOTS 16 & N1/2 OF VAC ALLEY, BLOCK 8, ORIGINAL TOWN OF RAPID CITY, SEC. 36, T2N, R7E, RAPID CITY, PENNINGTON COUNTY, SD (1.72 ACRES) AND N1/2 OF LOT 17-20 & 1/2 OF ALLEY ABUTTING SAID LOTS, BLOCK 8, ORIGINAL TOWN OF RAPID CITY, SEC. 36, T2N, R7E, RAPID CITY, PENNINGTON COUNTY, SD (0.18 ACRES) AND S1/2 OF LOT 17-20 & N1/2 VAC DENVER ST ADJ TO SAID LOTS, BLOCK 8, ORIGINAL TOWN OF RAPID CITY, SEC. 36, T2N, R7E, RAPID CITY, PENNINGTON COUNTY, SD (0.28ACRES) AND LOT 21-22; S1/2 VAC ALLEY & N1/2 VAC DENVER ST ADJ TO SAID LOTS, BLOCK 8, ORIGINAL TOWN OF RAPID CITY, SEC. 36, T2N, R7E, RAPID CITY, PENNINGTON COUNTY, SD (0.23 ACRES) AND LOT 23-24; S1/2 VAC ALLEY & N1/2 VAC DENVER ST ADJ TO SAID LOTS, BLOCK 8, ORIGINAL TOWN OF RAPID CITY, SEC. 36, T2N, R7E, RAPID CITY, PENNINGTON COUNTY, SD (0.23 ACRES) AND LOT 25-31; W1/2 OF VAC 2ND ST ADJ TO SAID LOT 32; S1/2 OF VAC ALLEY & N1/2 VAC DENVER ST ADJ TO SAID LOTS 25-32, BLOCK 8, ORIGINAL TOWN OF RAPID CITY, SEC. 36, T2N, R7E, RAPID CITY, PENNINGTON COUNTY, SD 1.09 ACRES) TOTAL ACREAGE: 3.73

EXISTING SITE CONDITIONS: THE SITE IS AN EXISTING OVERFLOW PARKING LOT FOR THE JOURNEY MUSEUM AND CIVIC CENTER. THE REMAINDER OF THE SITE HAS SOME CONIFER TREES WITH NATIVE GRASSES. DRAINAGE CROSSES THE SITE FROM THE NORTHWEST TO THE SOUTHEAST. NORTH 3RD STREET IS THE WESTERN BORDER OF THE SITE. THE EAST SIDE OF THE PROPERTY IS BORDERED BY NORTH 2ND STREET. NORTH STREET BORDERS THE NORTH PROPERTY LINE. THE PROPERTY INCLUDES VACATED PORTIONS OF NORTH 3RD STREET, NORTH 2ND STREET AND AN ALLEY.

ADJACENT AREAS: THE SURROUNDING LAND USES ARE SINGLE-FAMILY RESIDENTIAL, MULTI-FAMILY RESIDENTIAL. THE PROPERTY DIRECTLY TO THE SOUTH OF THE SITE IS OWNED BY THE CITY OF RAPID CITY.

SITE SOILS: CP COLOMBO-URBAN LAND COMPLEX 0 TO 1 PERCENT SLOPES 2.7% PERCENT OF SITE - LOCATED IN SE CORNER SKA SATANTA-URBAN LAND COMPLEX 0 TO 2 PERCENT SLOPES 38.1% PERCENT OF SITE - SW 1/2 OF SITE 2ND ZIGWED-NHILL COMPLEX 6 TO 15 PERCENT SLOPES 58.1% PERCENT OF SITE - NE 1/2 OF SITE

GEOTECHNICAL REPORT IS ATTACHED AS APPENDIX A.

AREAS: THE TOTAL SITE IS 3.73 ACRES (DENVER STREET UNDISTURBED IS .47 ACRES) WORKING SITE IS 3.26 ACRES THE ESTIMATED TOTAL DISTURBANCE IS APPROXIMATELY 104,368 SQ FT OR ABOUT 2.40 ACRES THE ESTIMATED TOTAL VOLUME OF DISTURBED SOIL IS APPROXIMATELY 5,000 CU YD. ALL SOIL SHALL BE UTILIZED ON SITE.

EROSION CONTROL MEASURES: EROSION & SEDIMENT CONTROL MEASURES USED ON THIS SITE WILL BE INSTALLED, MAINTAINED AND REMOVED BY CONTRACTOR. THESE MEASURES INCLUDE, BUT ARE NOT LIMITED TO: STRAW WATTLES OR LOGS (100% WEED FREE) TRACKING CONTROL MATERIAL (PIT RUN ROCK) AND VEGETATIVE BARRIER. THESE DOCUMENTS OUTLINE THESE PRACTICES, BUT GENERALLY LEAVE THE IMPLEMENTATION TO THE CONTRACTOR TO APPLY WHERE APPROPRIATE.

TRADITIONAL EROSION CONTROL MEASURES: THE FOLLOWING CONTROL MEASURES SHALL BE ENFORCED ON SITE.

- 1. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR CONTROLLING THE TRANSPORT OF SEDIMENT ON THIS SITE. IF AT ANY TIME THE PROCEDURES OUTLINED HEREIN DO NOT PROVIDE ADEQUATE CONTROL OF THE SOIL, THEN THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING IMMEDIATE AND EFFECTIVE REMEDIES, MODIFYING THE EROSION CONTROL PLAN AND CONSULTING WITH THE CITY AND LANDSCAPE ARCHITECT TO DETERMINE WHAT FURTHER MEASURES MAY BE REQUIRED TO FULLY COMPLY WITH ALL APPLICABLE REGULATIONS.
2. CONCRETE: READY MIXED CONCRETE AND CONCRETE BATCH PLANTS ARE PROHIBITED WITHIN THE PUBLIC RIGHT OF WAY. CONTRACTOR WILL NEED TO COORDINATE THE LOCATIONS OF WASHOUT AREAS WITH THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT. UNDER NO CIRCUMSTANCES MAY WASHOUT WATER DRAIN INTO THE PUBLIC RIGHT OF WAY OR INTO THE PUBLIC STORM SEWER OR ONTO NEIGHBORING PROPERTY.
3. PIPING: ALL DRAINAGE CHAUVERTS WILL BE PROTECTED WITH EROSION CONTROL MEASURES. SEE EROSION CONTROL PLAN.
4. CONTRACTOR SHALL CONFORM TO SDOOT STANDARD SPECIFICATIONS FOR TEMPORARY MEASURES TO CONTROL EROSION AND WATER POLLUTION. ALL EROSION CONTROL DEVICES SHOWN ON THE PLAN SHALL BE PROVIDED, INSTALLED AND MAINTAINED BY THE CONTRACTOR.
5. CLEARING AND GRUBBING SHALL ONLY BE PERFORMED IN AREAS WHERE CONSTRUCTION ACTIVITY WILL BE PERFORMED WITHIN 24 HOURS.
6. LANDSCAPE ARCHITECT AND CITY INSPECTOR HAVE THE AUTHORITY TO DIRECT CONTRACTOR TO PROVIDE IMMEDIATE PERMANENT AND TEMPORARY EROSION CONTROL MEASURES TO PREVENT OFFSITE RUNOFF. CONTRACTOR SHALL REMOVE SILT FENCE, WATTLES, BALES (IF USED) AND OTHER TEMPORARY MEASURES WHEN THEY ARE NO LONGER NEEDED.
7. SITE OBSERVATIONS SHALL BE CONDUCTED BY THE OWNER'S REPRESENTATIVE AND COMPLY WITH STATE STORM WATER POLLUTION PREVENTION PLAN REGULATIONS AS WELL ONCE A WEEK AND AFTER ANY STORM EVENT THAT PRODUCED 0.5" OR GREATER. ALL SEEDING AREAS WILL BE CHECKED FOR BARE SPOTS, WASHOUTS AND VIGOROUS GROWTH FREE OF SIGNIFICANT WEED INFESTATIONS. CONTRACTOR SHALL REPLACE OR REPAIR THESE AREAS FOR MAXIMUM SEED STABILITY AND PRODUCTION AT NO ADDITIONAL COST TO THE OWNER.
8. NATURAL VEGETATION SHALL ACT AS A FILTER STRIP BELOW TRAIL CONSTRUCTION. WHERE THIS STRIP IS LESS THAN 20' OF UNCOVERED EXISTING VEGETATION ADDITIONAL EROSION CONTROL MEASURES SUCH AS LISTED ABOVE MAY BE REQUIRED.
9. CONTRACTOR IS RESPONSIBLE FOR CLEANING ENTRANCE ROADS DAILY OF ALL DIRT, MUD AND DEBRIS DEPOSITED ON THEM AS A RESULT OF THE CONSTRUCTION OPERATION.
10. CONTRACTOR SHALL COORDINATE THE LOCATION OF STAGING AREAS WITH OWNER, CONCESSIONAIRE & LANDSCAPE ARCHITECT.

CONSTRUCTION SITE NONSTRUCTURAL CONTROL MEASURES

- THE FOLLOWING NONSTRUCTURAL CONTROL MEASURES SHALL BE ENFORCED ON SITE.
1. SIGNAGE: A SIGN COMPLYING WITH CITY STORM WATER QUALITY MANUAL ITEM 1.8.5.3 "CONTACT INFORMATION DISPLAY REQUIREMENTS" WILL BE POSTED AT EACH ENTRANCE.
2. AIR QUALITY: CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ANY AIR QUALITY CONTROL MEASURES REQUIRED BY THE LOCAL GOVERNMENT AGENCIES. DUST SHALL BE CONTROLLED BY SCHEDULED WATERING OR OTHER APPROVED METHODS.
3. SANITARY WASTE FACILITIES: PORTABLE SANITARY WASTE FACILITIES WILL BE PROVIDED ON THE CONSTRUCTION SITE. SANITARY WASTE WILL BE COLLECTED FROM THE UNITS IN A TIMELY MANNER BY A LICENSED WASTE MANAGEMENT CONTRACTOR OR AS REQUIRED BY ANY LOCAL OR STATE REGULATIONS.
4. SPILL PREVENTION:
a. CLEAN UP LEAKS DRIPS AND OTHER SPILLS IMMEDIATELY.
b. ALL LIQUID WASTE MATERIALS WILL BE COLLECTED, STORED AND SEALED IN SEALED METAL CONTAINERS APPROVED BY THE OWNER'S REPRESENTATIVE.
c. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN APPROVED CONTAINERS. CONTAINERS WILL BE SERVICED AS NECESSARY, AND THE TRASH WILL BE HALLED OFF TO AN APPROVED DISPOSAL SITE OR LICENSED LANDFILL. REGULARLY PICKUP AND DISPOSE OF GARBAGE AND WASTE MATERIAL.
d. ALL ONSITE PERSONNEL WILL BE INSTRUCTED WITH THE PROPER PROCEDURES FOR WASTE DISPOSAL AND NOTICES STATING THE PROPER PRACTICES WILL BE POSTED IN THE FIELD OFFICE. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE ARE PRACTICED ON SITE WITH ALL WORKERS ON THE JOB SITE.
e. FERTILIZERS: THE USE OF FERTILIZERS IS NOT ANTICIPATED.
5. HAZARDOUS WASTE HANDLING:
a. ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN A MANNER SPECIFIED BY THE LOCAL AND STATE REGULATIONS AND IN SOME CASES BY THE MANUFACTURER.
b. ALL SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES. ASSIGN RESPONSIBILITY OF HAZARDOUS MATERIAL INVENTORY TO A LIMITED NUMBER OF PEOPLE WHO ARE TRAINED TO HANDLE SUCH MATERIALS. IN THE EVENT OF SPILLS OF ANY DANGEROUS OR HAZARDOUS MATERIAL, NOTIFY CITY PUBLIC WORKS DEPARTMENT.
c. THE CONTRACTOR IS RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
6. EQUIPMENT MAINTENANCE:
a. MAINTENANCE AND REPAIR OF ALL EQUIPMENT AND VEHICLES INVOLVING OIL CHANGES, HYDRAULIC SYSTEM DRAIN DOWN, DE-GREASING OPERATIONS, FUEL TANK DRAIN DOWN AND REMOVAL, AND OTHER ACTIVITIES WHICH MAY RESULT IN THE ACCIDENTAL RELEASE OF CONTAMINANTS WILL BE CONDUCTED ON AN IMPERVIOUS SURFACE AND UNDER COVER DURING WET WEATHER TO PREVENT THE RELEASE OF CONTAMINANTS ONTO THE GROUND.
b. IF NO IMPERVIOUS SURFACE IS AVAILABLE THEN DRAIN OR REPLACE MOTOR OIL OR OTHER AUTOMOTIVE FLUIDS IN AN AREA AWAY FROM STREAMS OR STORM OR SANITARY SEWER INLETS. COLLECT SPENT FLUIDS AND RECYCLE OR DISPOSE OF PROPERLY.
c. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED.
d. PERFORM REGULAR MAINTENANCE OF EACH PIECE OF EQUIPMENT TO CHECK FOR PROPER OPERATION, LEAKS, MALFUNCTIONS, AND EVIDENCE OF LEAKS OR DISCHARGE (STAINS). CONTRACTOR WILL HAVE A PROCEDURE FOR SPILL REPORTING, CLEANUP, AND REPAIR.
e. IN FUELING AREAS: CLEAN UP SPILLS WITH DRY CLEANUP METHODS (ABSORBENTS) AND USE DAMP CLOTHS ON GAS PUMPS AND DAMP MOPS ON FLOORS INSTEAD OF A HOSE.
7. OTHER MEASURES AS OUTLINED IN THE CITY OF RAPID CITY STORM WATER QUALITY MANUAL AND BY THE TIME THE SD DENR STORM WATER POLLUTION PERMIT SHALL BE FULLY INTEGRATED INTO THESE PLANS AS NECESSARY TO COMPLY WITH LAW.

TIME SCHEDULE: CONSTRUCTION STAGING TO BE DETERMINED BASED UPON BID ADVERTISEMENT EROSION CONTROL INSTALLATION TO BE DETERMINED BASED UPON BID ADVERTISEMENT CONSTRUCTION COMMENCED TO BE DETERMINED BASED UPON BID ADVERTISEMENT SUBSTANTIAL COMPLETION TO BE DETERMINED BASED UPON BID ADVERTISEMENT SEEDING TO BE DETERMINED BASED UPON BID ADVERTISEMENT GROW-IN PERIOD TO BE DETERMINED BASED UPON BID ADVERTISEMENT

PERMANENT STABILIZATION: IT IS ANTICIPATED THAT THE PROJECT WILL PRIMARILY BE STABILIZED BY THE COMPLETE GROW-IN OF LANDSCAPE MATERIAL AT THE END OF FALL 2010. LANDSCAPE DETENTION AREAS, ROCKED AREAS AND OTHER STORM WATER INFRASTRUCTURE WILL REQUIRE A MINIMUM OF ANNUAL MAINTENANCE, WITH CLEANING OF ACCUMULATED MATERIALS AND ROUTINE CHECKING TO ENSURE THE FACILITIES ARE OPERATING AS INTENDED. DETENTION AREAS MAY REQUIRE MORE EXTENSIVE SOIL MODIFICATIONS ON A DECENNIAL SCHEDULE.

STORM WATER MANAGEMENT CONSIDERATIONS: THIS INITIAL PHASE OF THE PROCESS ALSO USES BEST MANAGEMENT PRACTICES FOR STORMWATER QUALITY TO GUIDE THE BASIC FORMULATION OF THE INFRASTRUCTURE. THESE FEATURES, TREATED AS AMENITIES BY THIS PLAN, PROVIDE THE BACKBONE OF THE SITE AND ARE FULLY INTEGRATED INTO EACH AMENITY. THE FOLLOWING DESCRIPTIONS PROVIDE THE LOGIC FOR EACH AREA OF THE SITE.

- PLAZA (SMALL CONCRETE GATHERING AREA AT ENTRANCE OF SITE) SHALL "SHEET DRAIN" ONTO EXISTING CURB AND GUTTER THAT DRAINS WEST AND EAST TO THE SOUTH OF THE PROJECT.
• LAWN AREAS: WATER HERE TRANSPORTED IN MINOR LANDSCAPED SWALES (GRASSED).
• AMPHITHEATER AND PERFORMANCE AREA: THESE GRASS AREAS ARE GRADED AS GIANT DISH THAT DRAINS TO AN AREA INLET AND THEN DISPERSED INTO A GRASS SWALE THAT EMPTIES INTO ONSITE BIORETENTION AREA.
• NATURAL AREAS OF THE SITE: MOST OF THE SITE WILL BE RECLAIMED TO NATURAL GRASS LAND WITH ONLY MINIMAL GRADING TO PROVIDE TRAILS.
• THE DRAINAGE THROUGH THE SITE WILL RECEIVE ONLY MINOR IMPACTS BY THIS DESIGN. ITS DISCHARGE POINT AT THE SOUTHEAST CORNER OF PROPERTY WILL NOT CHANGE AT THIS TIME.

THIS SITE IS DESIGNED SO THAT CONSTRUCTION STORMWATER CONTROLS EVOLVE INTO THE PERMANENT STORMWATER QUALITY MEASURES THAT ENSURE A SUSTAINABLE DESIGN AS FOLLOWS:
• LANDSCAPE DETENTION AREAS SHALL BE MAINTAINED AS SEDIMENT BASINS DURING CONSTRUCTION.
• SITE IS BEING RECLAIMED FROM ASPHALT PARKING TO PARK TYPE. EXISTING SITE IS 50% IMPERVIOUS. THIS PROJECT AT FULL BUILD OUT WILL HAVE A TOTAL IMPERVIOUS PERCENTAGE OF 27%.
• RELATIVELY MINOR IMPACT TO THE OVERALL SITE ENSURES THAT THE WATER IN THE CONSTRUCTION AREAS IS LIMITED.
• GRADING DOES NOT INTERRUPT NATURAL SHEET FLOW ON THE SITE.

WETLANDS: NO WETLANDS ARE ON SITE

DEWATERING: DEWATERING OPERATIONS ARE NOT EXPECTED. IF NEEDED, A GENERAL DEWATERING PERMIT WILL BE REQUIRED. NOTICE OF INTENT: A NOTICE OF INTENT HAS BEEN FILED WITH DENR BY THE LANDSCAPE ARCHITECT. SEE APPENDIX.

MAINTENANCE: INSPECTION OF EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE SCHEDULED BI-WEEKLY AND FOLLOWING ANY STORM EVENT OF 1/2 INCH OR GREATER. ALL MEASURES SHOULD BE MAINTAINED IN GOOD WORKING ORDER. INSPECTION AND MAINTENANCE OF EROSION CONTROL MEASURES AND THE ENTIRE TRAIL SHALL CONTINUE MONTHLY UNTIL THE SUMMER OF 2011 TO ENSURE NO PROBLEM AREAS DEVELOP WITHIN THE SITE PROJECT LIMIT. ANY AREAS THAT INDICATE POTENTIAL LONG TERM DAMAGE SHALL HAVE APPROPRIATE DESIGN MEASURES TAKEN TO HALT SIGNIFICANT SITE DAMAGE. SEASONAL INSPECTION AND MAINTENANCE WILL BE REQUIRED FOR THE LIFE OF THE GRASSED TRAIL. ONGOING MAINTENANCE AFTER FINAL ACCEPTANCE WILL BE DONE BY THE OWNER (A.T.T.A.) AND WILL FOLLOW THE CHECKLISTS ATTACHED IN THE PROJECT MANUAL, APPENDIXEE.

OWNER'S CERTIFICATION: THIS EROSION AND SEDIMENT CONTROL REPORT AND ATTACHED SITE CONSTRUCTION PLAN APPEAR TO FULFILL THE TECHNICAL CRITERIA AND THE CRITERIA FOR EROSION AND SEDIMENT CONTROL REQUIREMENTS OF THE CITY OF RAPID CITY. I UNDERSTAND THAT ADDITIONAL EROSION CONTROL MEASURES MAY BE NEEDED IF UNFORESEEN EROSION OR SEDIMENT CONTROL PROBLEMS OCCUR OR IF THE SUBMITTED PLAN DOES NOT FUNCTION AS INTENDED. THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE LANDOWNER UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED, OR VOIDED.

SIGNED: OWNER'S REPRESENTATIVE AUTHORITY DATE: MATT FRIDELL, RLA REG NO 8923

ENGINEER'S CERTIFICATION: I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF SOUTH DAKOTA.

SIGNED: DATE: MATT FRIDELL, RLA REG NO 8923

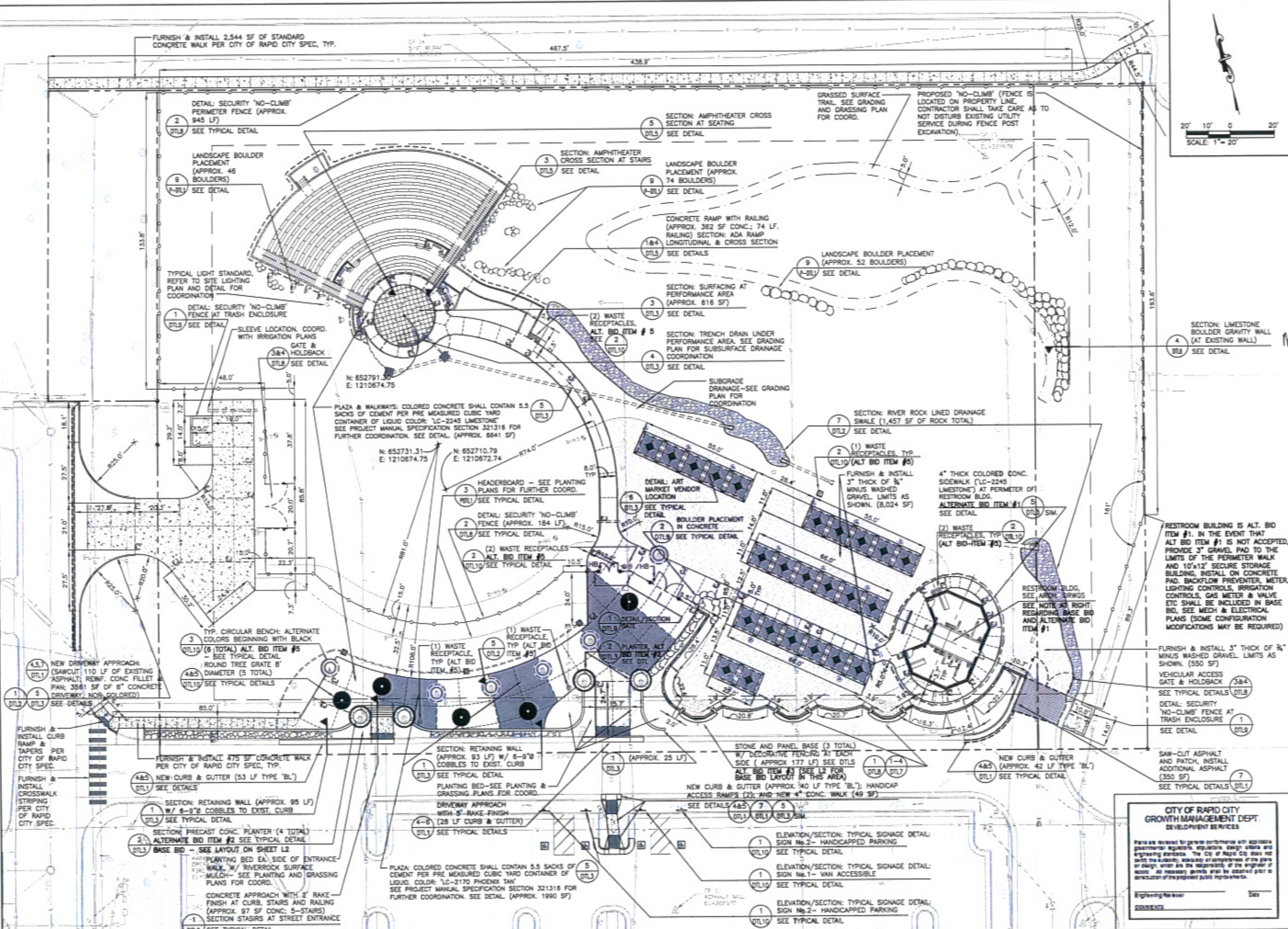
PRIME CONTRACTOR'S CERTIFICATION: THIS SECTION IS TO BE EXECUTED BY THE GENERAL CONTRACTOR AFTER THE AWARD OF THE CONTRACT. THIS SECTION MAY BE EXECUTED ANY TIME THERE IS A CHANGE IN THE PRIME CONTRACTOR OF THE PROJECT.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WILL BE REVISED OR MAINTAINED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNED: DATE: (WRITE OUT CONTRACTOR'S POINT OF CONTACT AND COMPANY NAME)

CITY OF RAPID CITY GROWTH MANAGEMENT DEPT. DEVELOPMENT SERVICES. Plans are reviewed by public works, engineering and design staffs and engineering standards. The City of Rapid City does not warrant the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer or licensor. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Public Works Department, Rapid City, South Dakota. Wyss Associates, Inc. Landscape Architecture, Civil/Urban Architecture, Parks & Recreation Design. 728 Sixth Street - Rapid City, South Dakota 57701-3870. PROJECT NO. RC09-16600703. EROSION CONTROL REPORT. ER2 of 32.



**POWOW GARDENS & ART MARKET**

SITE LAYOUT PLAN

L1 of 32

Designed By: MCF / P/W  
Design Date: FEB 2010  
Checked by No: 05113.2  
Reviewed By: F/MG, Inc.  
Survey Date: AUG 2009

Drawn By: CMW / AKW  
Print Date: 02-26-10  
Survey Date: AUG 2009

Presented By: **Wyss Associates, Inc.**  
Landscape Architecture  
Civil/Structural Architecture  
Parks & Recreation Design  
738 Birch Street - Rapid City, South Dakota 57701-3670  
Ph: 605.348.2268 Fax: 605.348.6508  
email: info@wyssassociates.com

Prepared For: **CITY OF RAPID CITY**  
Public Works Department

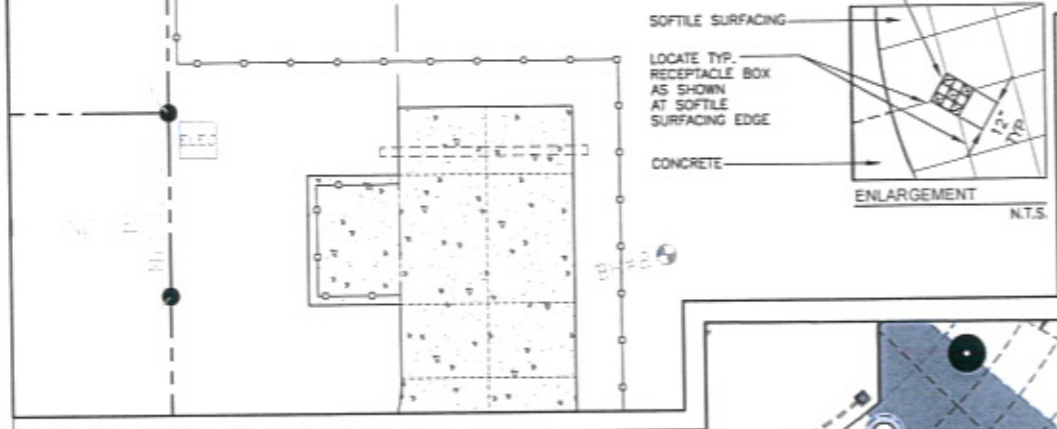
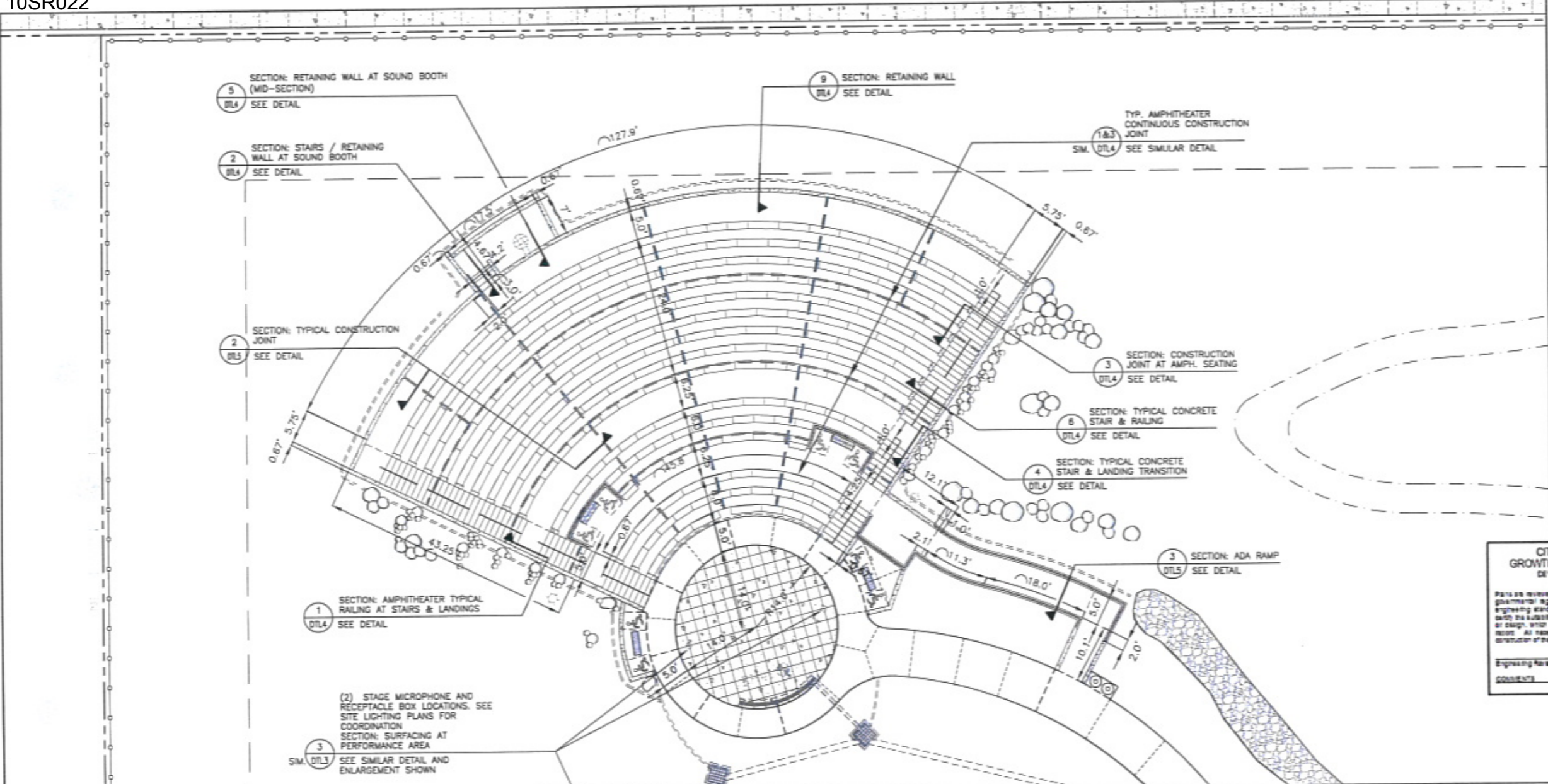
PROJECT NO. RC020-10R020203

**CITY OF RAPID CITY**  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES

Plans are reviewed for general compliance with applicable governmental regulations, specifications, design criteria and engineering standards. The City of Rapid City does not warrant the accuracy, adequacy or completeness of the plans or design, under the responsibility of the engineer or architect. All necessary permits shall be obtained prior to construction of any proposed public improvements.

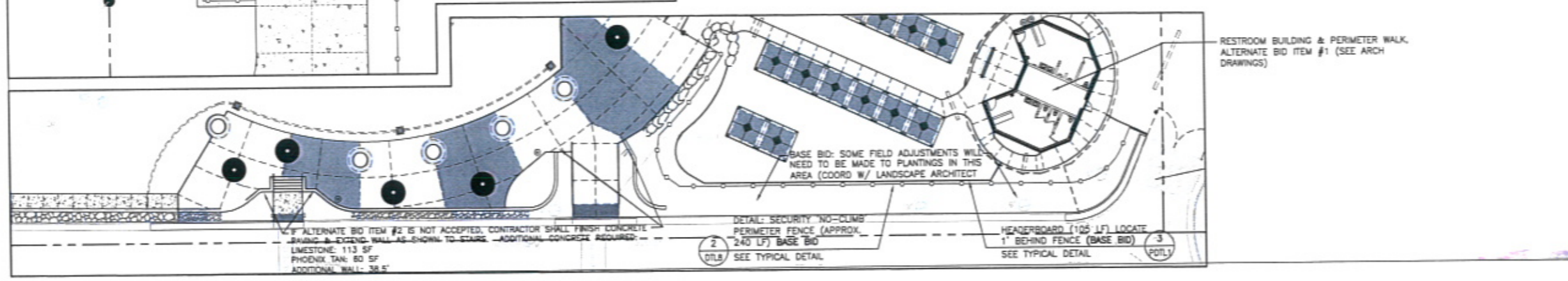
Engineering Number: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_



**GENERAL LAYOUT NOTES:**

1. CAD DRAWINGS WILL BE PROVIDED TO THE CONTRACTOR THAT IS AWARDED THE CONTRACT FOR STAKING AND LAYOUT PURPOSES.
2. CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES, SITE FEATURES, AND VEGETATION DESIGNATED TO REMAIN. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED ITEMS AT NO COST TO OWNER. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING ANY DAMAGED ITEMS PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES ON DRAWINGS PRIOR TO PROCEEDING.
4. ALL DIMENSIONS ARE PARALLEL AND PERPENDICULAR TO FEATURES BEING DIMENSIONED FROM UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL SUPPLY ALL STAKING AND ANY TESTING REQUIRED. TESTING REQUIREMENTS SHALL ADHERE TO THE SPECIFICATIONS FOR TESTING REQUIREMENTS.
6. PRIOR TO SHAPING TRAIL, CONTRACTOR TO COORDINATE WITH LANDSCAPE ARCHITECT FOR TRAIL LAYOUT APPROVAL.
7. ALL BOULDERS SHALL BE SOURCED FROM THE BLACK HILLS AREA. ACCEPTABLE BOULDERS WILL BE OF NATURAL TYPE, LIMESTONE OR LARGE FIELD STONE. CONTRACTOR SHALL FURNISH AND INSTALL. COORDINATE WITH LANDSCAPE ARCHITECT ON SOURCE AND INSTALLATION.
8. NATURAL SURFACE TRAIL OR GRASSED TRAIL: A SEEDED, MOWED TRAIL FOR FOOT TRAFFIC ONLY. SEE SPECIFICATIONS.
9. WOOD LOG BENCH LAYOUT AT AMPHITHEATER IS FOR ASSISTING IN QUANTIFYING CUTS TO LOGS AND HARDWARE. THE LOG LAYOUT IS ILLUSTRATIVE. WITH LOGS BEING OF IMPERFECT SIZE CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO FIT THE LOG IN THE FIELD TO FIT THE RADIUS OF THE AMPHITHEATER. CONTRACTOR SHALL NOT EXCEED 1/8" GAP BETWEEN LOG AND FACE OF CONCRETE TO THE REAR OF THE SEAT. SEE LOG SEATING DETAILS FOR FURTHER COORDINATION.
10. AFTER ALL LOGS HAVE BEEN CUT, DEBARKED, PEELLED AND SANDED CONTRACTOR SHALL PREPARE LOG FOR SEALING PER WOOD SEALER INSTRUCTIONS. SEAL AND COLOR LOG WITH DEFY EPOXY FORTIFIED WOOD STAIN. SUBMIT COLOR TO LANDSCAPE ARCHITECT FOR OWNER'S COLOR SELECTION. PROVIDE OWNER'S SELECTED COLOR SAMPLE ON LOG FOR FINAL APPROVAL PRIOR TO STAINING ALL LOGS.



**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

Plans are reviewed for general conformance with applicable governmental regulations, engineering standards and engineering standards. The City of Rapid City does not warrant the accuracy or completeness of the plans or design, which are the responsibility of the engineer or designer. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Review: \_\_\_\_\_ Date: \_\_\_\_\_  
Comments: \_\_\_\_\_

Prepared For: **Public Works**  
**RAPID CITY, SOUTH DAKOTA**  
Department

Prepared By: **Wyss Associates, Inc.**  
Landscape Architecture  
Civil & Recreation Design  
728 South Central - Rapid City, South Dakota 57701-3870  
phone: 605.342.4400  
email: info@wyssassociates.com

**REGISTERED LANDSCAPE ARCHITECT**  
SEE NC  
8323  
MATTHEW R. WYSS  
SOUTH DAKOTA  
09/18/2010

Designed By: MCF / PHN	Drawn By: CMW / AKW
Design Date: FEB. 2010	Print Date: 02-26-10
Internal Job No: 05113.2	
Surveyed By: FMS, Inc.	Survey Date: AUG. 2009
Revisions:	

**POWOW GARDENS & ART MARKET**

PROJECT NO. RC09-16050703

Sheet Title: **ENLARGED AMPHITHEATER LAYOUT PLAN**

Sheet: **L2 of 32**



Prepared For  
**Wyss Associates, Inc.**  
 Landscape Architecture  
 Parks & Recreation Design  
 225 South Street - Rapid City, South Dakota 57701-3870  
 PH: 605.348.2268 Fax: 605.348.0500  
 email: info@wyssassociates.com



Designed By: MCF / PHW  
 Design Date: FEB. 2010  
 Internal Job No: 05113.2  
 Surveyed By: FMG, Inc.  
 Survey Date: AUG. 2009

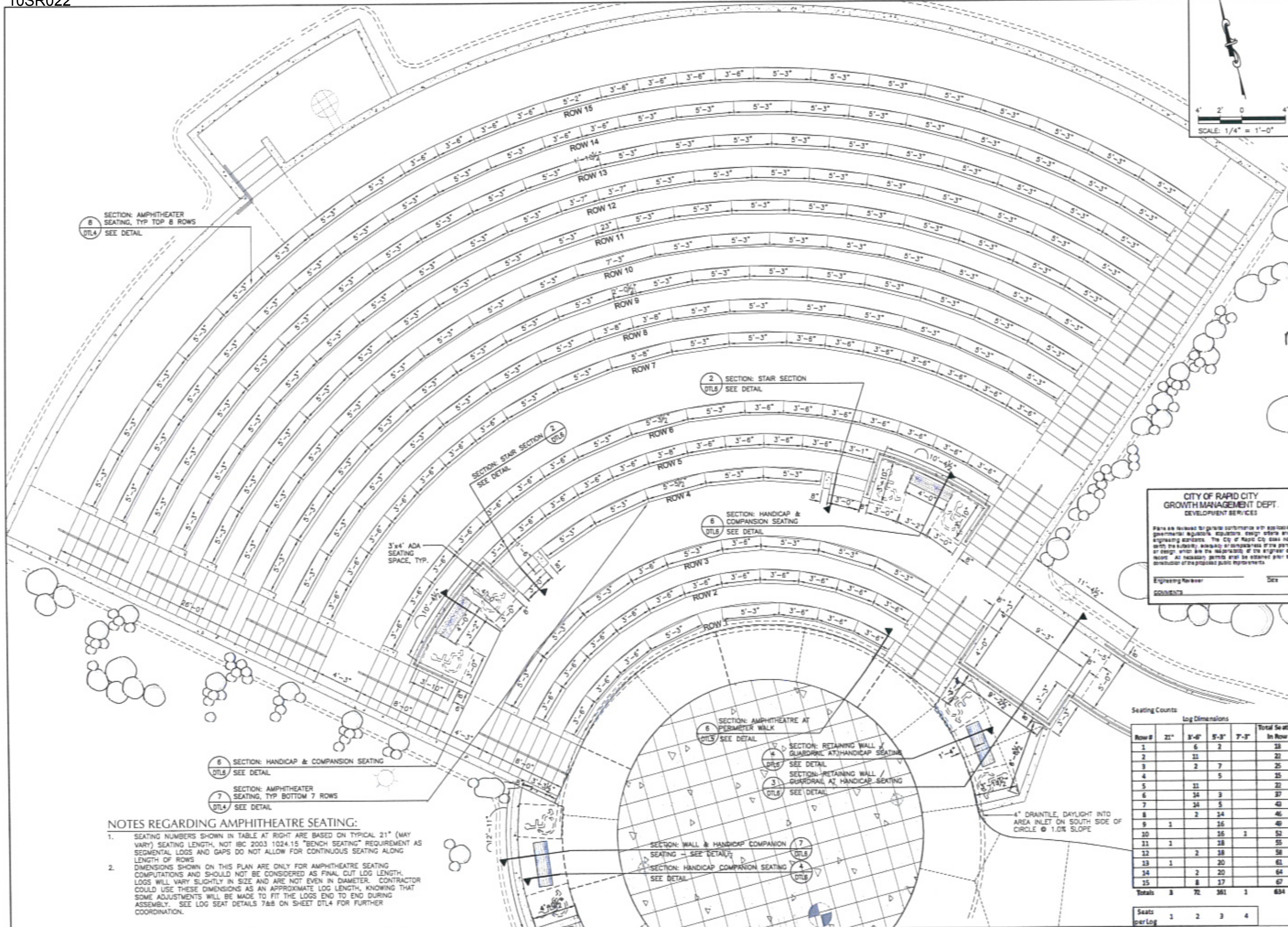
**CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES**

Please see attached for general contract with applicable governmental regulations, equipment, design criteria and engineering standards. The City of Rapid City does not warrant the suitability, adequacy or completeness of the plans or design which are the responsibility of the engineer of record. At necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_  
 Date: \_\_\_\_\_

**POWOW GARDENS &  
 ART MARKET**

ENLARGED  
 AMPHITHEATER  
 LAYOUT PLAN



SECTION: AMPHITHEATER SEATING, TYP TOP 8 ROWS  
 DT14 SEE DETAIL

SECTION: STAIR SECTION  
 DT15 SEE DETAIL

SECTION: STAIR SECTION  
 DT16 SEE DETAIL

SECTION: HANDICAP & COMPANION SEATING  
 DT15 SEE DETAIL

SECTION: AMPHITHEATRE AT PERIMETER WALK  
 DT15 SEE DETAIL

SECTION: RETAINING WALL & GUARDRAIL AT HANDICAP SEATING  
 DT15 SEE DETAIL

SECTION: RETAINING WALL & GUARDRAIL AT HANDICAP SEATING  
 DT16 SEE DETAIL

SECTION: WALL & HANDICAP COMPANION SEATING  
 DT15 SEE DETAIL

SECTION: HANDICAP COMPANION SEATING  
 DT15 SEE DETAIL

SECTION: HANDICAP & COMPANION SEATING  
 DT16 SEE DETAIL

SECTION: AMPHITHEATER SEATING, TYP BOTTOM 7 ROWS  
 DT14 SEE DETAIL

**NOTES REGARDING AMPHITHEATRE SEATING:**

- SEATING NUMBERS SHOWN IN TABLE AT RIGHT ARE BASED ON TYPICAL 21" (MAY VARY) SEATING LENGTH, NOT IBC 2003 1024.15 "BENCH SEATING" REQUIREMENT AS SEGMENTAL LOGS AND GAPS DO NOT ALLOW FOR CONTINUOUS SEATING ALONG LENGTH OF ROWS
- DIMENSIONS SHOWN ON THIS PLAN ARE ONLY FOR AMPHITHEATRE SEATING COMPUTATIONS AND SHOULD NOT BE CONSIDERED AS FINAL CUT LOG LENGTH. LOGS WILL VARY SLIGHTLY IN SIZE AND ARE NOT EVEN IN DIAMETER. CONTRACTOR COULD USE THESE DIMENSIONS AS AN APPROXIMATE LOG LENGTH, KNOWING THAT SOME ADJUSTMENTS WILL BE MADE TO FIT THE LOGS END TO END DURING ASSEMBLY. SEE LOG SEAT DETAILS 7&8 ON SHEET DT14 FOR FURTHER COORDINATION.

Seating Counts

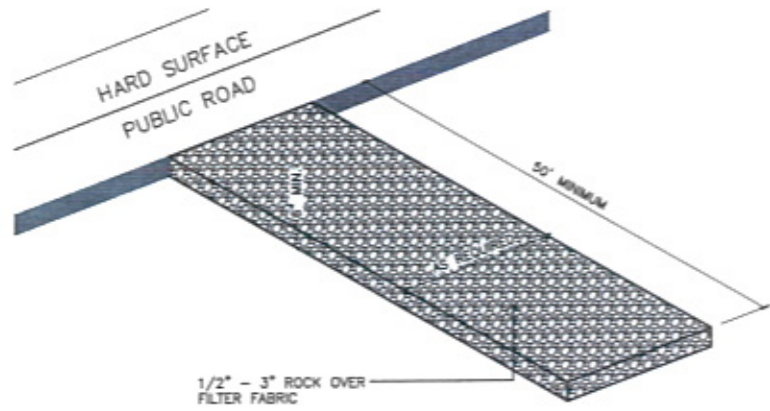
Row #	Log Dimensions				Total Seating In Row
	21"	3'-0"	5'-3"	7'-3"	
1		6	2		18
2		11			22
3		2	7		25
4			5		25
5		11			22
6		14	3		37
7		14	5		40
8		2	14		46
9	1		16		40
10			16	1	52
11	1		18		55
12		2	18		58
13	1		20		61
14		2	20		64
15		8	17		67
<b>Totals</b>	<b>3</b>	<b>72</b>	<b>161</b>	<b>1</b>	<b>634</b>

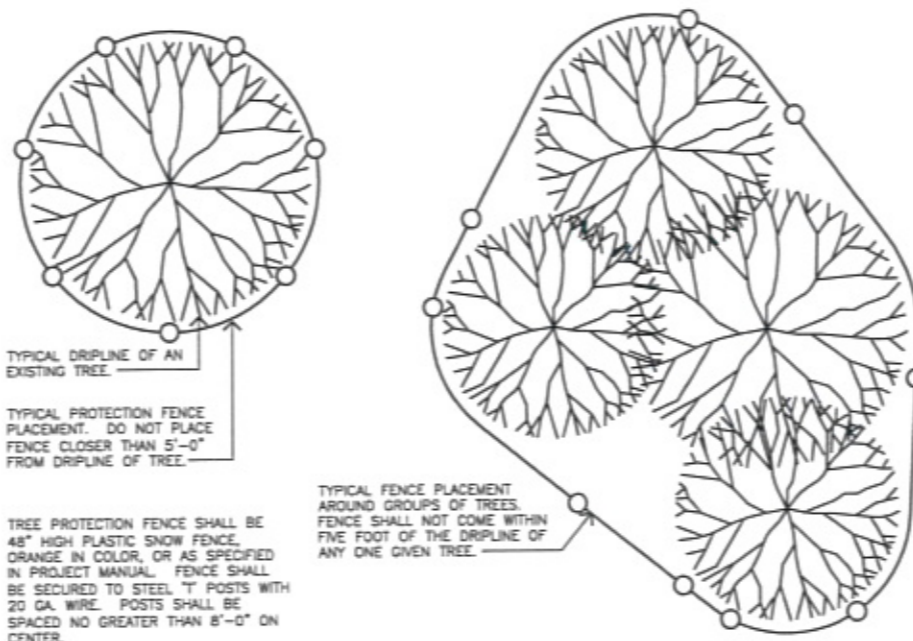
Seats per Log	1	2	3	4

4" DRAINTILE, DAYLIGHT INTO AREA INLET ON SOUTH SIDE OF CIRCLE @ 1.0% SLOPE

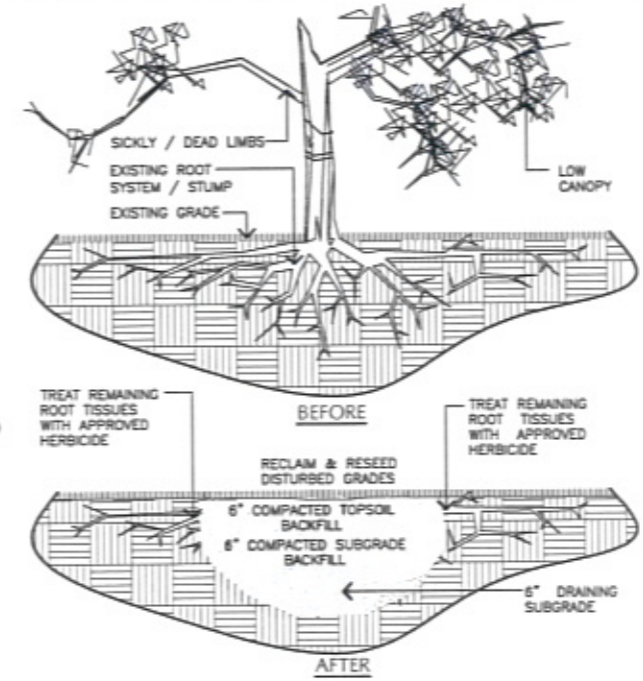
PROJECT NO. RC06-100500703



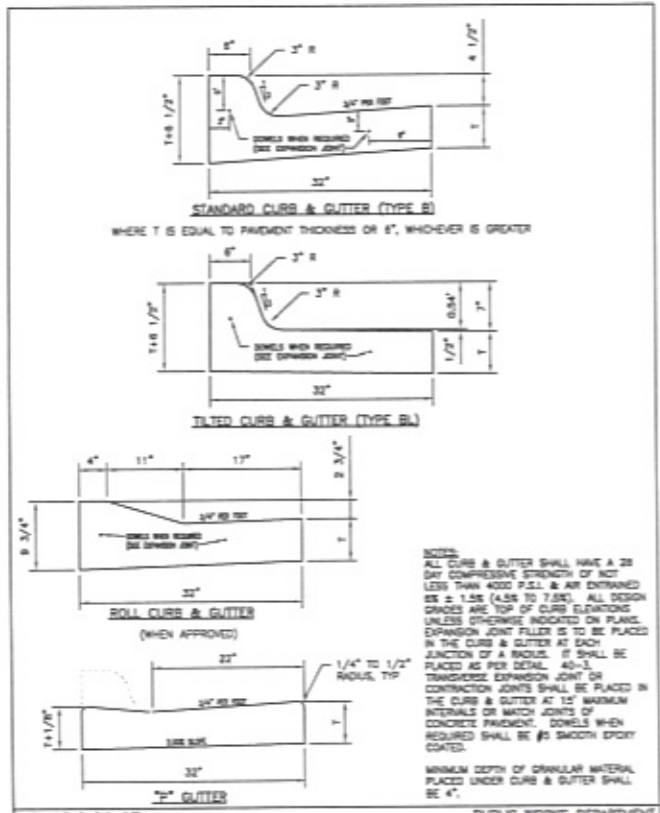
**1** VEHICLE TRACKING CONTROL  
DTL1 SCALE: 1" = 10'-0"



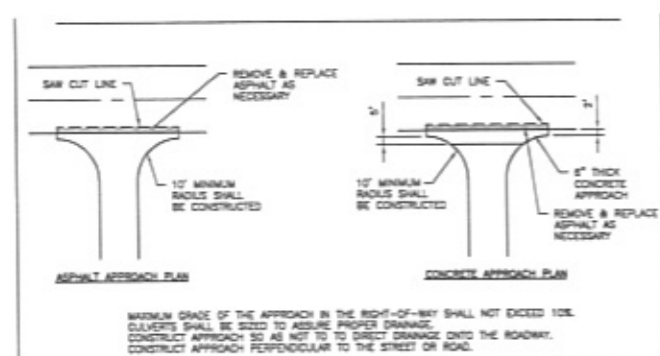
**2** PLAN: TYPICAL TREE PROTECTION FENCE PLACEMENT  
DTL1 SCALE: 1/8" = 1'-0"



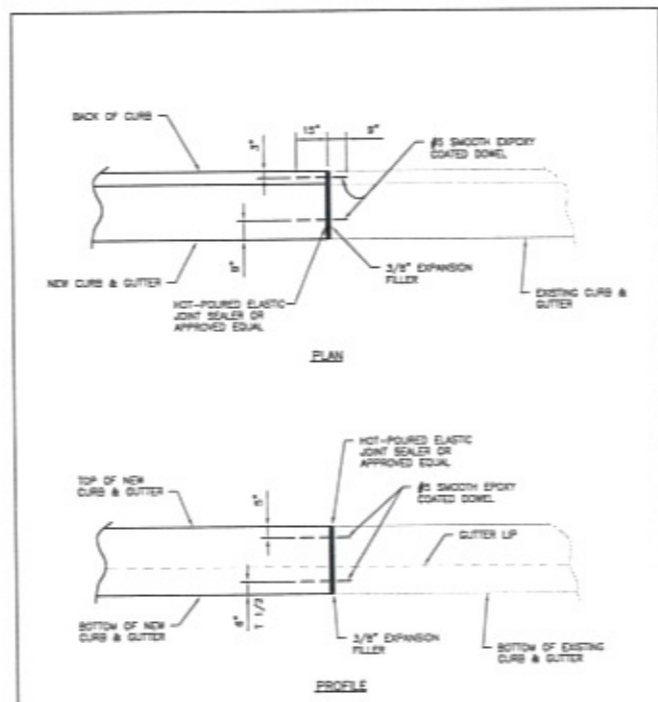
**3** TREE REMOVAL TYPICAL DETAIL  
DTL1 SCALE: 1" = 1'



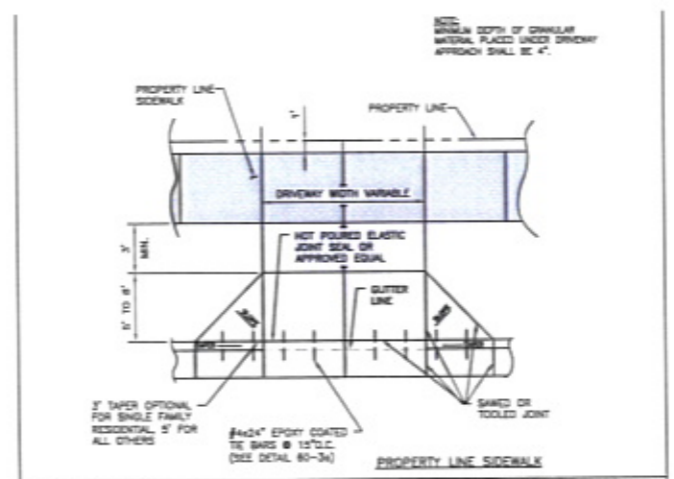
**4** CURB & GUTTER  
DTL1 DATE: 11-20-03 SEC. SHIT. 60-2



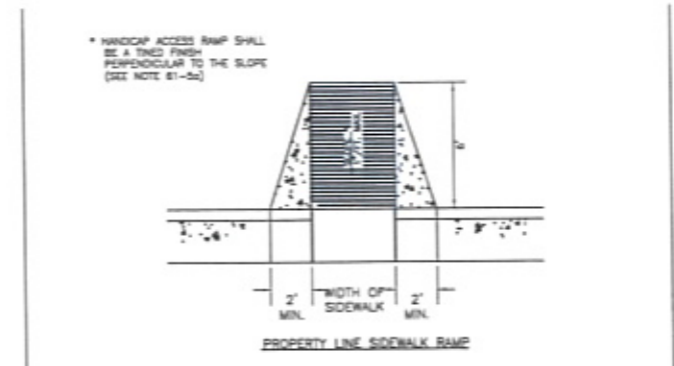
**7** DRIVEWAY APPROACH  
DTL1 DATE: 11-20-03 SEC. SHIT. 60-6



**5** CURB & GUTTER EXPANSION JOINT  
DTL1 DATE: 11-20-03 SEC. SHIT. 60-7



**6** STANDARD DRIVEWAY APPROACH PAVEMENT  
DTL1 DATE: 11-20-03 SEC. SHIT. 60-3



**7** HANDICAP ACCESS RAMPS  
DTL1 DATE: 11-15-02 SEC. SHIT. 61-5



Presented By  
**Wyss Associates, Inc.**  
Landscape Architecture  
Civil & Recreational Design  
720 84th Street - Rapid City, South Dakota 57701-3870  
Ph: 605.348.2268 Fax: 605.348.8008  
email: info@wyssassociates.com



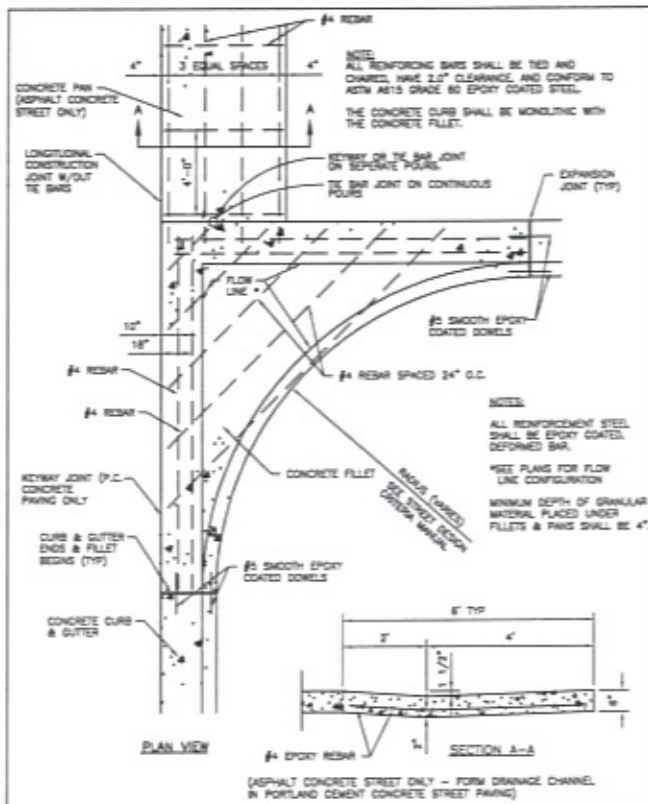
Designed By: MCF / PFW  
Drawn By: CMN / AKW  
Design Date: FEB. 2010  
Print Date: 02-26-10  
Internal Job No: 051132  
Surveyed By: FMG, Inc.  
Survey Date: AUG. 2009  
Revisions:

**POWOW GARDENS & ART MARKET**

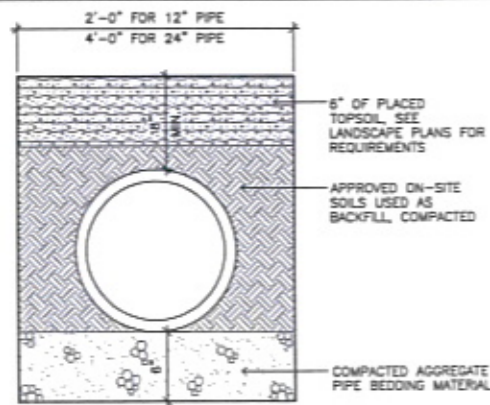
**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

Plans are reviewed for general compliance with applicable governmental regulations, standards, design criteria and engineering standards. The City of Rapid City does not warrant the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Review: \_\_\_\_\_ Date: \_\_\_\_\_  
Comments: \_\_\_\_\_

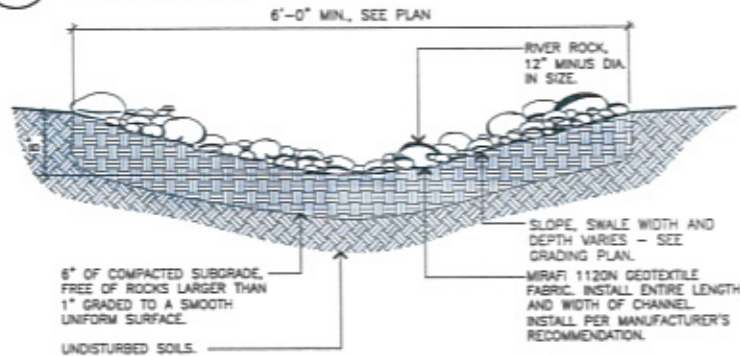


**1** REINFORCED PORTLAND CEMENT CONCRETE FILLET & PAN  
 DATE: 11-20-03  
 SEC. SH. 60-1

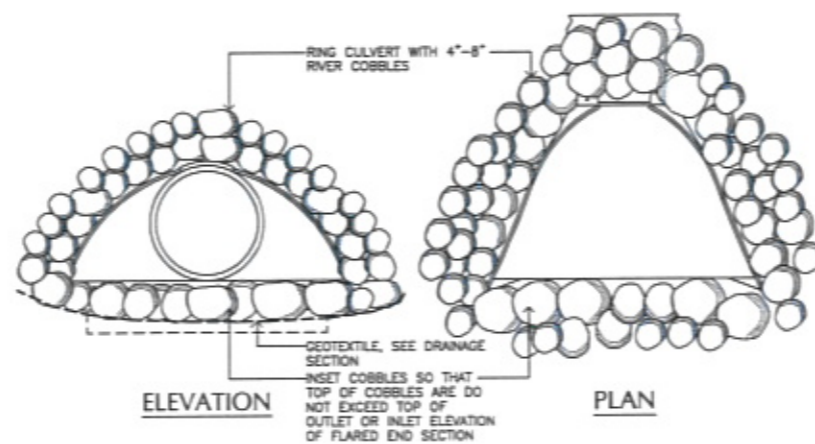


NOTE: IN AREAS WITHIN PROJECT, ALL TRENCHING AREAS CONTRACTOR SHALL INSTALL 6" TOPSOIL IN ALL DISTURBED AREAS.

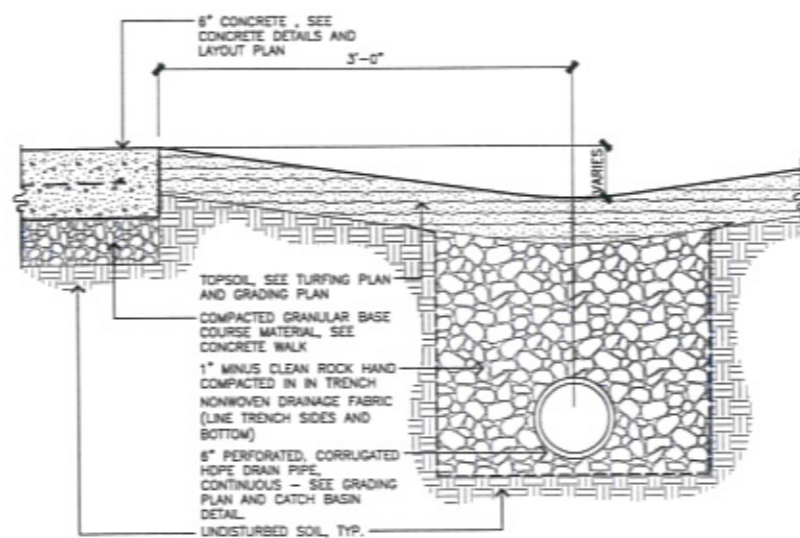
**4** SECTION: STORM SEWER PIPE TRENCH  
 SCALE: 1 1/2" = 1'-0"



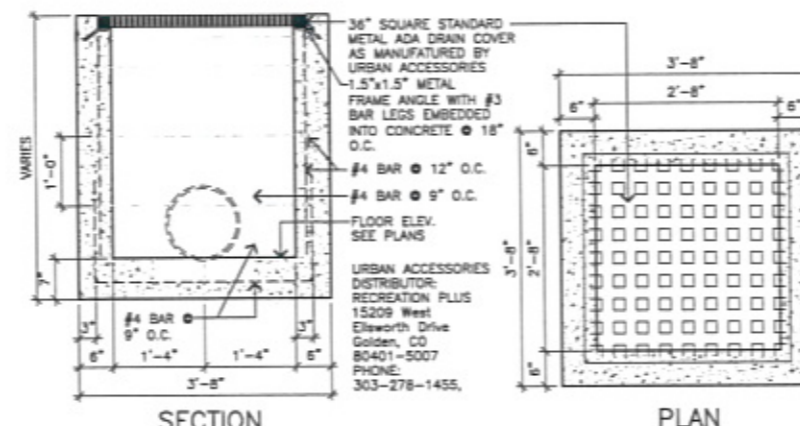
**7** SECTION: RIVER ROCK LINED DRAINAGE SWALE  
 SCALE: 1" = 1'-0"



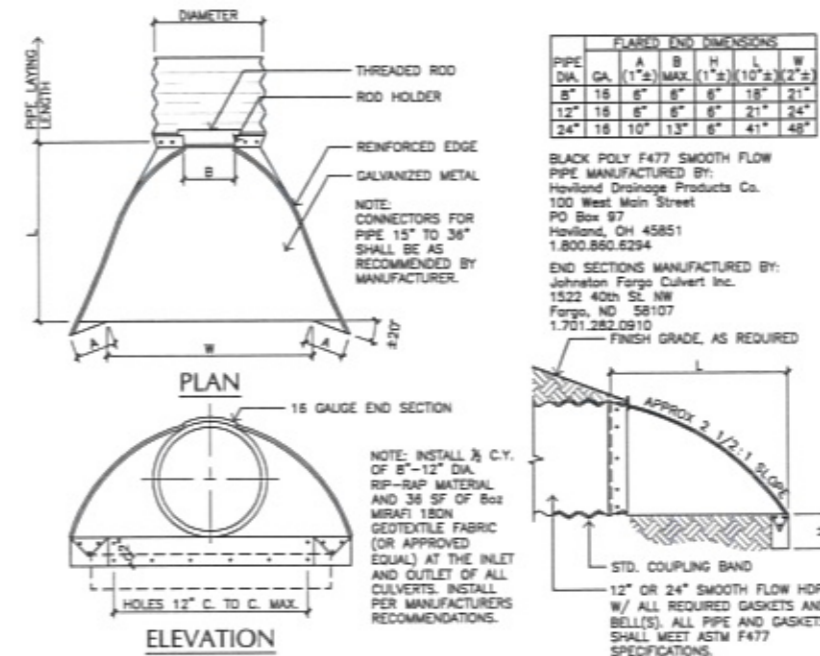
**2** DETAIL: METAL CULVERT END ARMORING  
 NOT TO SCALE



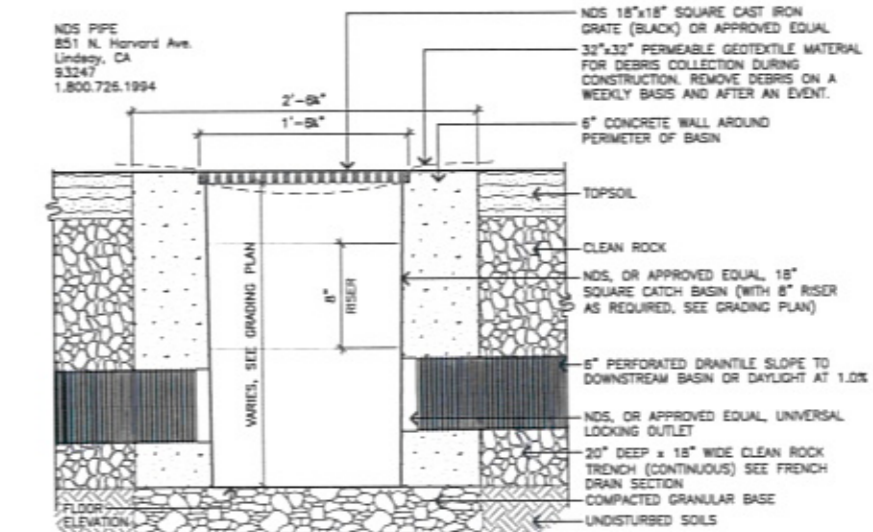
**5** SECTION: FRENCH DRAIN BY PLAZA  
 SCALE: 1 1/2" = 1'-0"



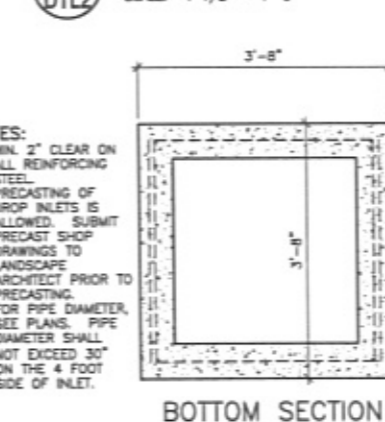
**8** DETAILS: CONCRETE DROP AREA INLET  
 SCALE: 3/4" = 1'-0"



**3** DETAIL: HDPE DRAIN PIPE & METAL CULVERT END SECTION  
 NOT TO SCALE



**6** SECTION: NDS 18" SQUARE CATCH BASIN AND GRATE  
 SCALE: 1 1/2" = 1'-0"



**6** SECTION: NDS 18" SQUARE CATCH BASIN AND GRATE  
 SCALE: 1 1/2" = 1'-0"

**CITY OF RAPID CITY GROWTH MANAGEMENT DEPT. DEVELOPMENT SERVICES**

Plans are reviewed for general conformance with applicable governmental regulations, specifications, design criteria and engineering standards. The City of Rapid City does not warrant the accuracy, adequacy or completeness of the plans or design when the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvement.

Engineering Number: \_\_\_\_\_ Date: \_\_\_\_\_

CONSULTANTS

Prepared For: **PUBLIC WORKS DEPARTMENT**

Project No. **10SR022**

Sheet Title: **SITE DETAILS**

Scale: **DTL2 of 32**

Designed By: **MCF / FHW** Drawn By: **CMW / AKW**

Design Date: **FEB. 2010** Print Date: **02-25-10**

Internal Job No: **03113.2**

Surveyed By: **FMG, Inc.** Survey Date: **AUG. 2009**

Revisions:

Prepared By: **Wyss Associates, Inc.**

Wyss Associates, Inc. Landscape Architecture Golf Course Architecture Parks & Recreation Design

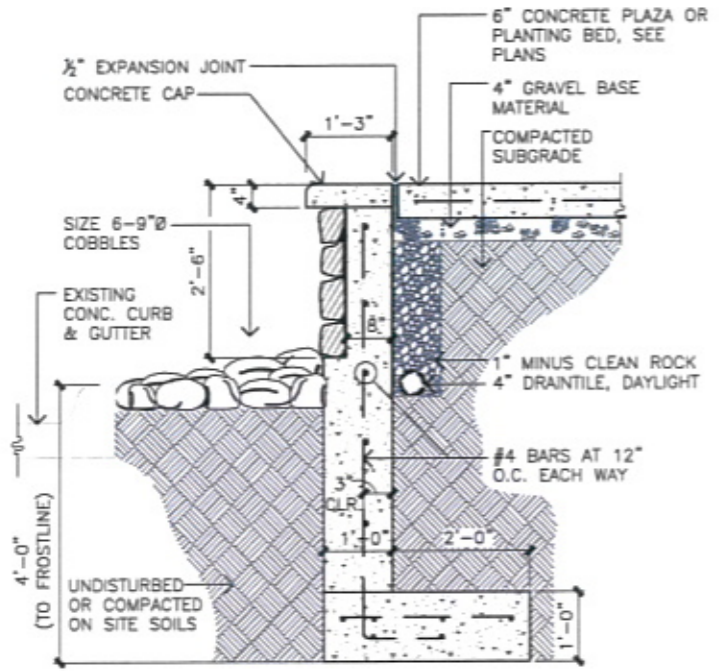
228 South Street - Rapid City, South Dakota 57701-3070  
 Ph: 605.348.2268 Fax: 605.348.0506  
 Email: info@wyssassociates.com

REGISTERED LANDSCAPE ARCHITECT  
 REG. NO. 8823  
 M. W. WYSS  
 SOUTH DAKOTA  
 09/14/2010

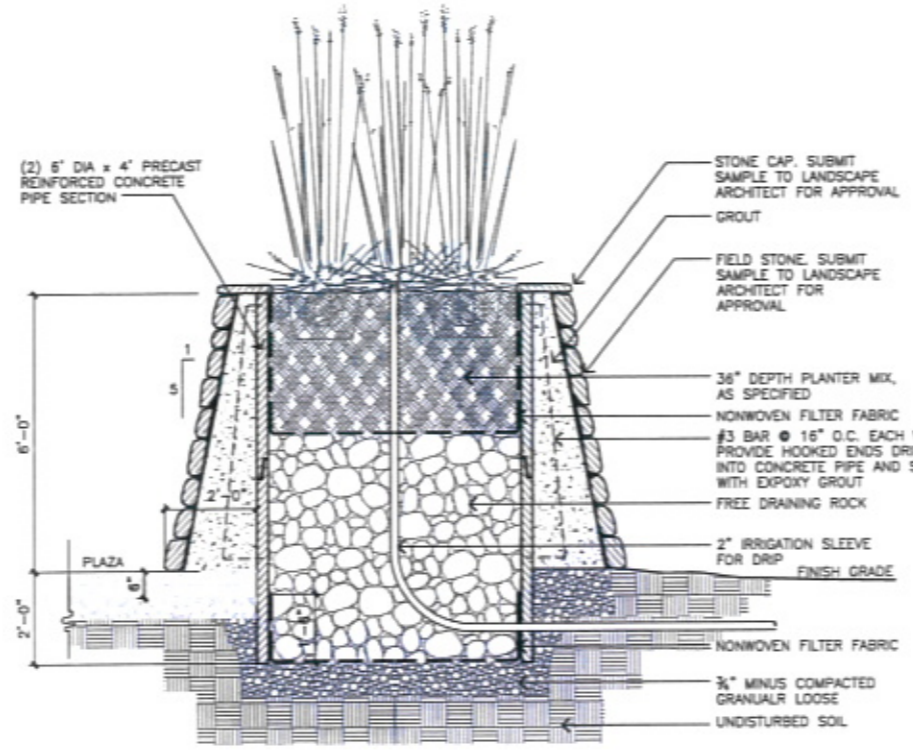
POWOW GARDENS & ART MARKET

PROJECT NO. 10SR022

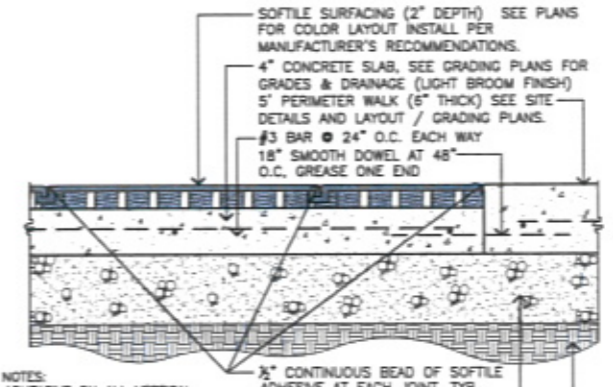




**1 SECTION: PLAZA RETAINING WALL**  
DTL3 SCALE: 3/4" = 1'-0"



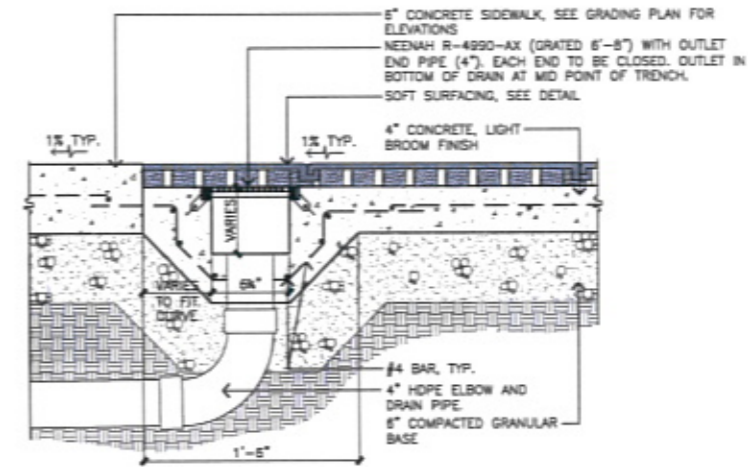
**2 SECTION: PRECAST CONCRETE PLANTER**  
DTL3 SCALE: 1/2" = 1'-0" ALTERNATE BID ITEM #2



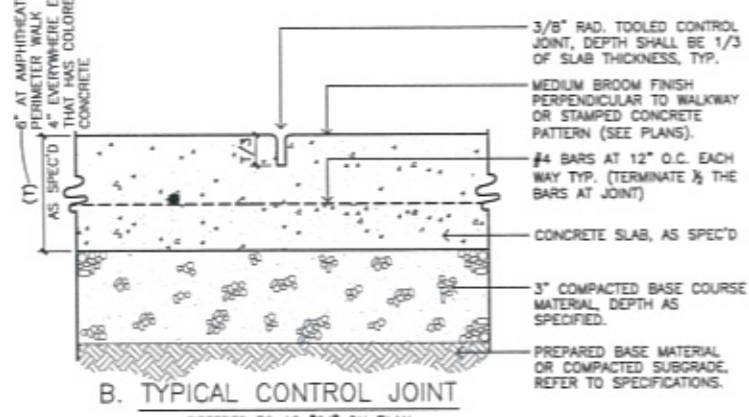
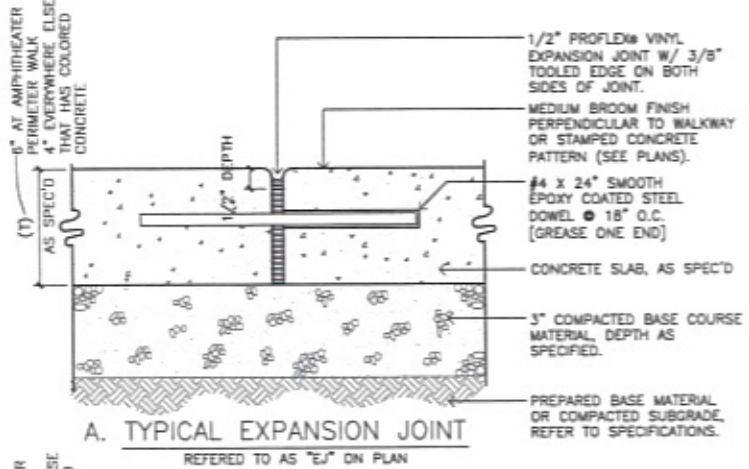
SOFT TILE SURFACING (2" DEPTH) SEE PLANS FOR COLOR LAYOUT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.  
4" CONCRETE SLAB, SEE GRADING PLANS FOR GRADES & DRAINAGE (LIGHT BROOM FINISH)  
5" PERIMETER WALK (5" THICK) SEE SITE DETAILS AND LAYOUT / GRADING PLANS.  
#3 BAR @ 24" O.C. EACH WAY  
1/2" SMOOTH DOWEL AT 48" O.C. GREASE ONE END

GENERAL NOTES:  
1. APPLY ADHESIVE ON ALL VERTICAL CONCRETE EDGES AND UNDER 12" OF ALL PERIMETER TILES.  
2. SOFT TILE IS MANUFACTURED BY: SOFSURFACES 1138 LARKSONG LANE OLIVENHAIN, CA 92024 USA PHONE: 760-942-2914

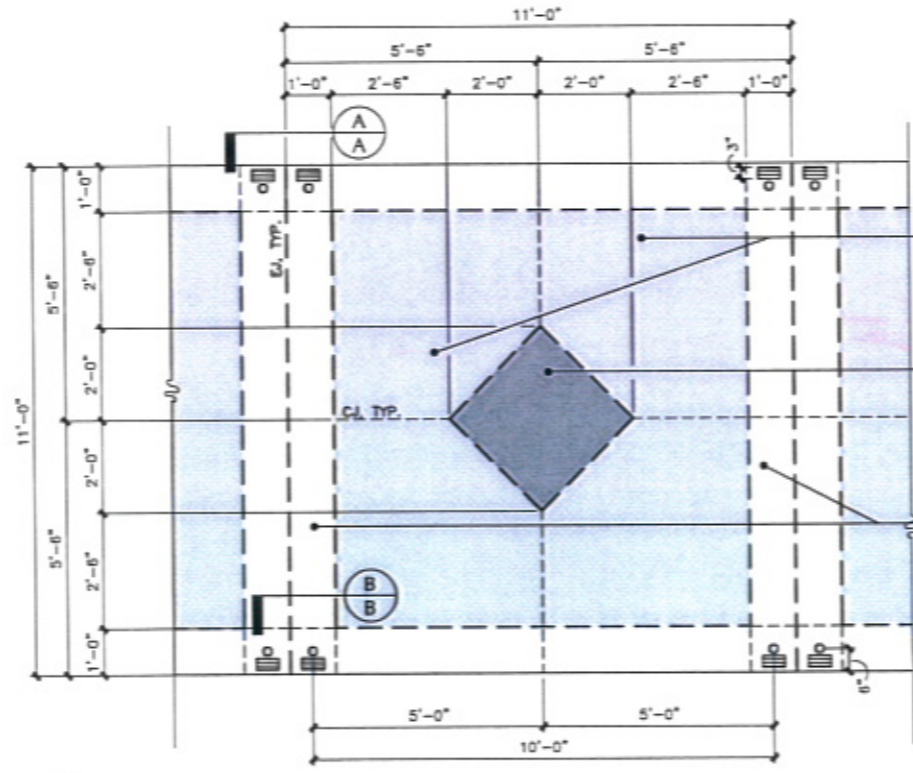
**3 SECTION: SURFACING AT PERFORMANCE AREA**  
DTL3 SCALE: 1 1/2" = 1'-0"



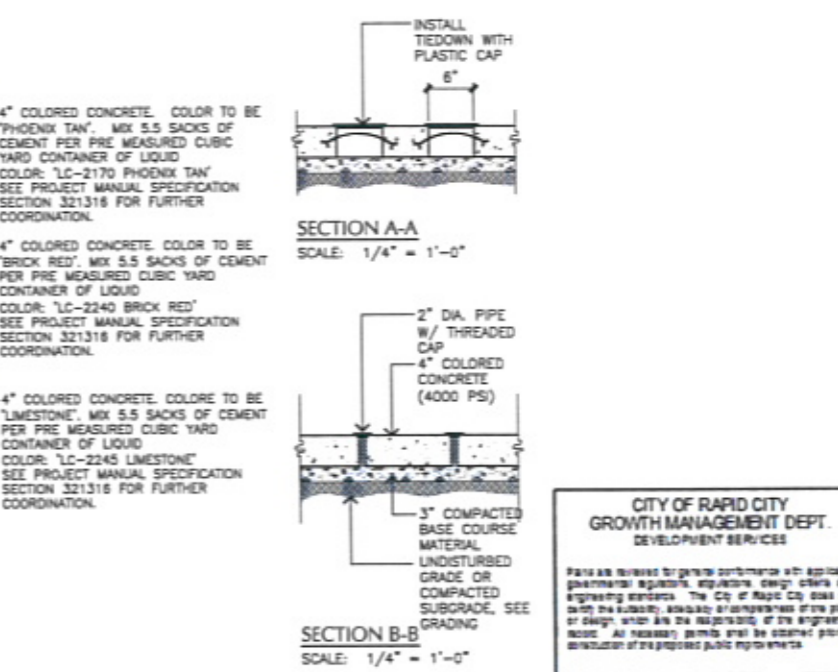
**4 SECTION: TRENCH DRAIN UNDER PERFORMANCE AREA**  
DTL3 SCALE: 1 1/2" = 1'-0"



**5 SECTION: TYPICAL CONCRETE JOINT DETAILS**  
DTL3 SCALE: 3" = 1'-0"



**6 DETAIL: ART MARKET VENDOR LOCATION**  
DTL3 SCALE: 1/2" = 1'-0"



**7 SECTION: TYPICAL CONCRETE JOINT DETAILS**  
DTL3 SCALE: 1/4" = 1'-0"

**CITY OF RAPID CITY GROWTH MANAGEMENT DEPT. DEVELOPMENT SERVICES**

Plans are prepared by general contractors with applicable governmental agencies, architects, design others and engineering services. The City of Rapid City does not verify the accuracy, adequacy, appropriateness or the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvement.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_  
Comments: \_\_\_\_\_

Public Works Department  
City of Rapid City

Prepared By: **Wyss Associates, Inc.**  
Landscape Architecture  
Park & Recreation Design  
728 Sixth Street - Rapid City, South Dakota 57701-3670  
Phone: 605-343-1111  
Email: info@wyssassociates.com

Designed By: MDF / PHW  
Design Date: FEB 2010  
Information No: 05113.2  
Surveyed By: FMG, Inc.  
Survey Date: AUG 2009

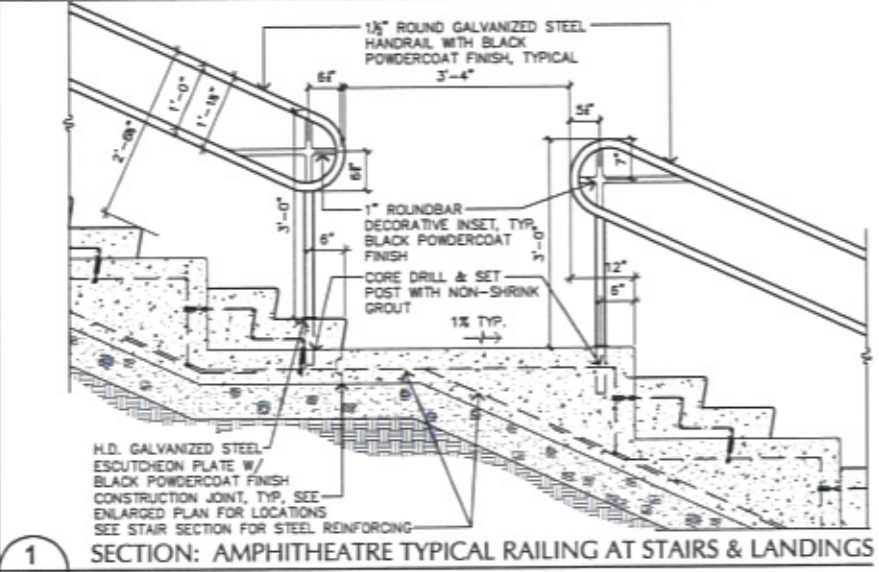
Drawn By: CMW / AKW  
Print Date: 02-26-10

**POWOW GARDENS & ART MARKET**

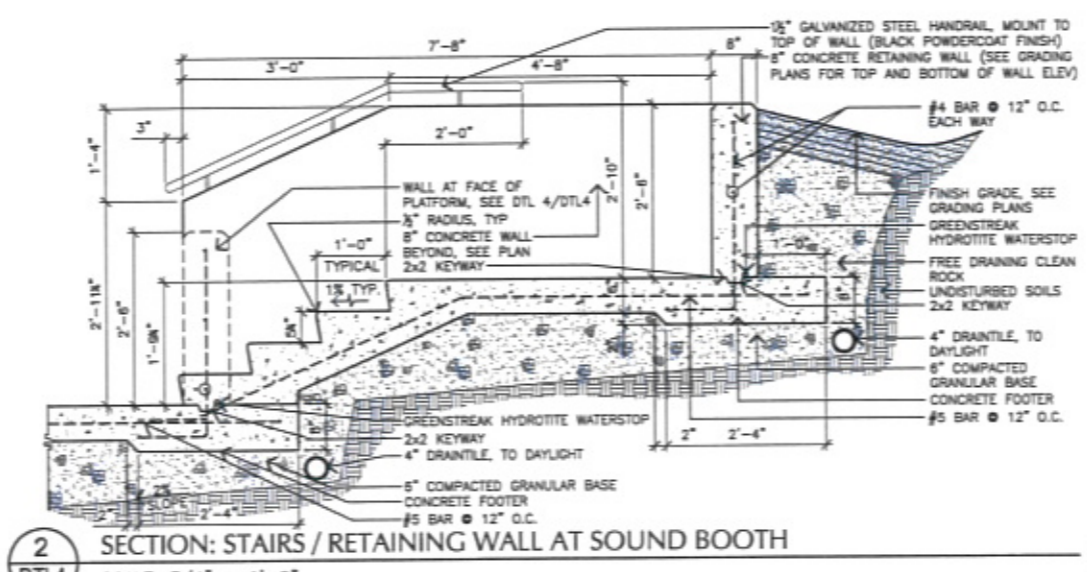
PROJECT NO. RC09-18060703

SHEET TITLE: SITE DETAILS

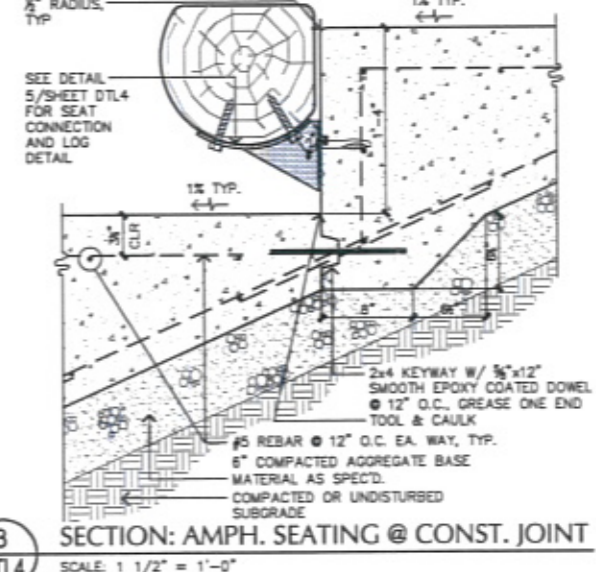
SHEET NO: DTL3 OF 32



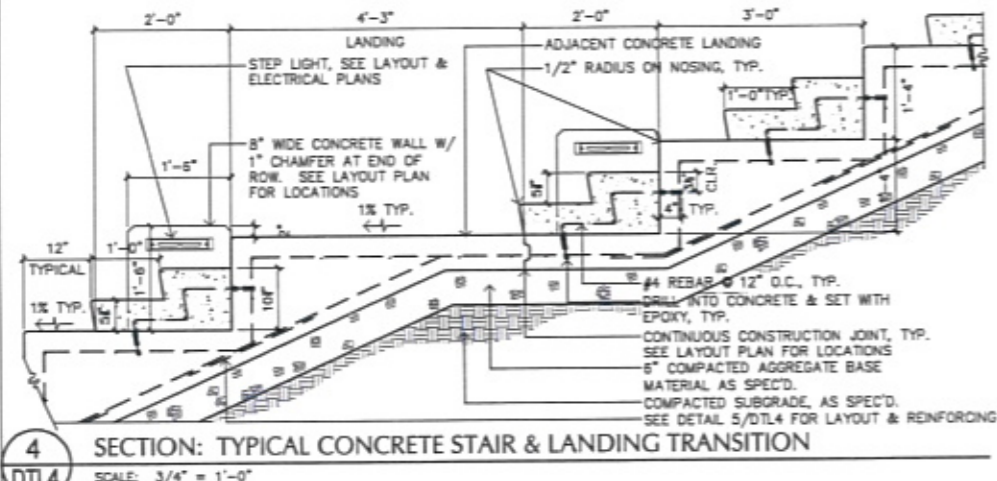
1 SECTION: AMPHITHEATRE TYPICAL RAILING AT STAIRS & LANDINGS  
DTL4 SCALE: 3/4" = 1'-0"



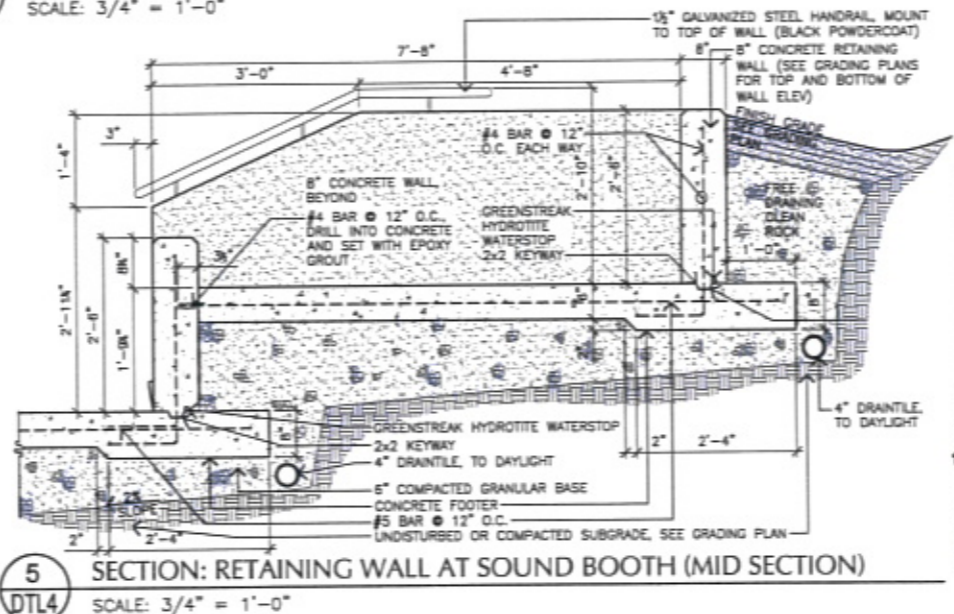
2 SECTION: STAIRS / RETAINING WALL AT SOUND BOOTH  
DTL4 SCALE: 3/4" = 1'-0"



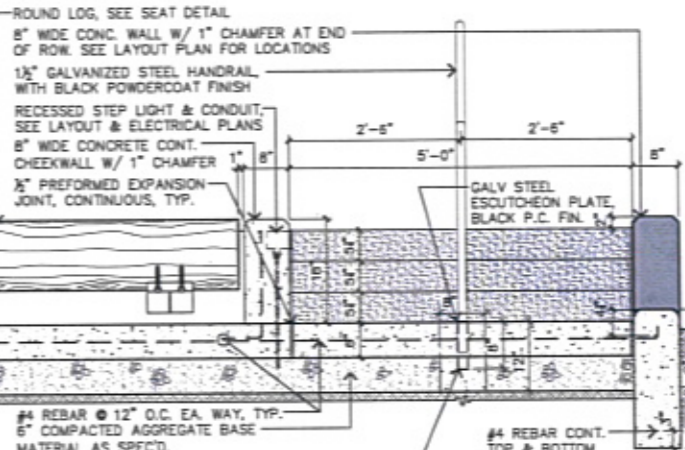
3 SECTION: AMPH. SEATING @ CONST. JOINT  
DTL4 SCALE: 1 1/2" = 1'-0"



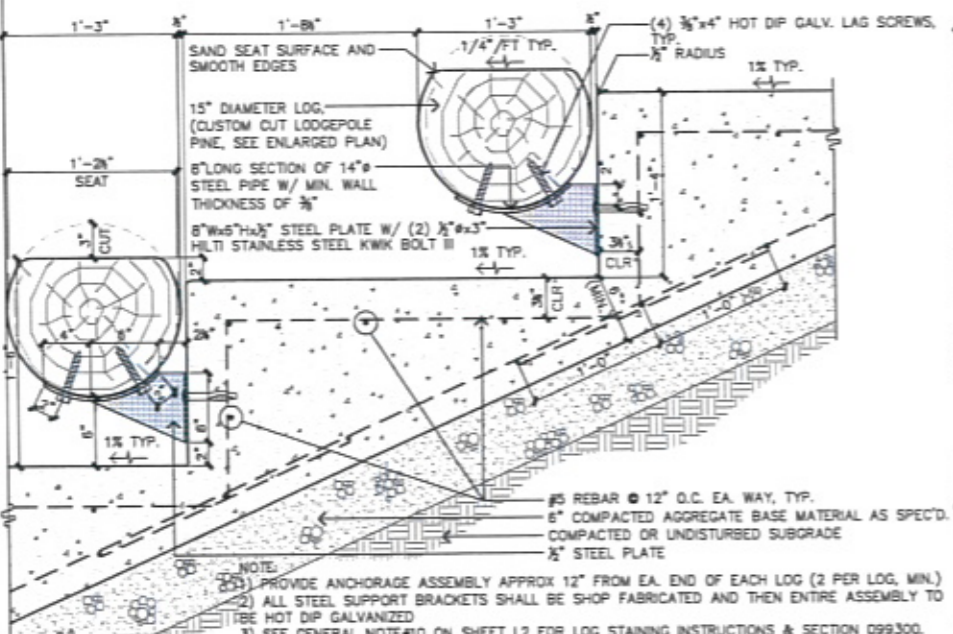
4 SECTION: TYPICAL CONCRETE STAIR & LANDING TRANSITION  
DTL4 SCALE: 3/4" = 1'-0"



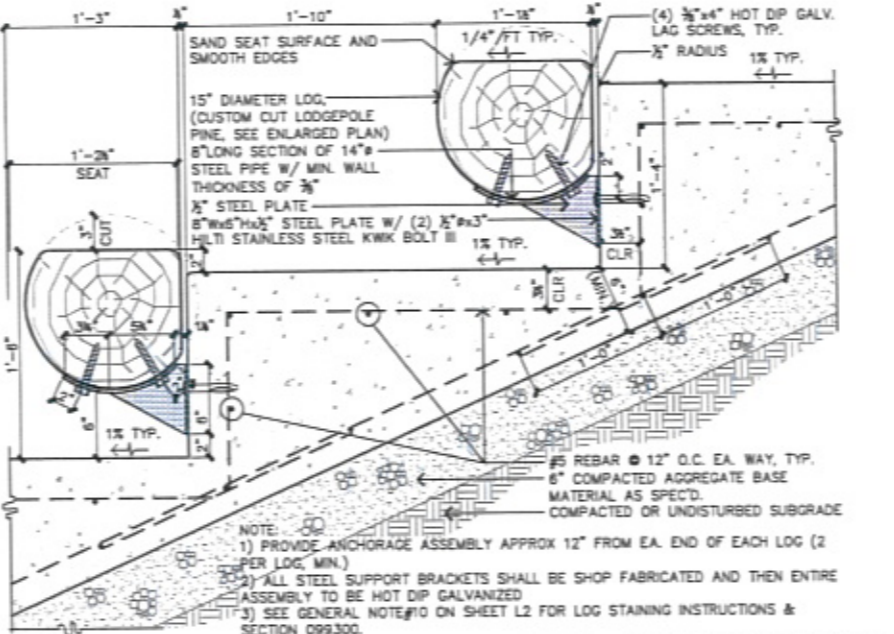
5 SECTION: RETAINING WALL AT SOUND BOOTH (MID SECTION)  
DTL4 SCALE: 3/4" = 1'-0"



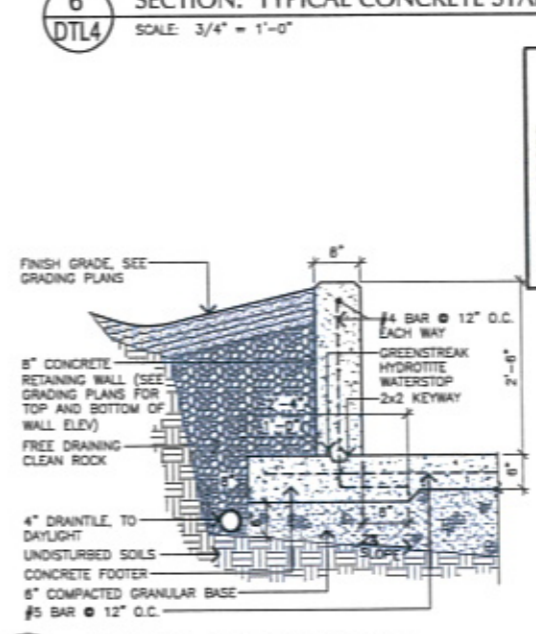
6 SECTION: TYPICAL CONCRETE STAIR & RAILING  
DTL4 SCALE: 3/4" = 1'-0"



7 SECTION: AMPHITHEATRE SEATING  
DTL4 SCALE: 1 1/2" = 1'-0"



8 SECTION: AMPHITHEATRE SEATING (TYP. ~ TOP 8 ROWS ONLY)  
DTL4 SCALE: 1 1/2" = 1'-0"



9 SECTION: RETAINING WALL  
DTL4 SCALE: 3/4" = 1'-0"

**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

Plans are released for public comment with applicable governmental agencies, engineers, design firms and engineering consultants. The City of Rapid City does not own the utility, roadway or other facilities of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public right-of-way.

Expressing Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_

Prepared For: **Public Works Department**

Prepared By: **Wyss Associates, Inc.**  
Landscape Architecture  
Civil/Concrete Architecture  
Parks & Recreation Design

725 South Street - Rapid City, South Dakota 57701-3670  
P.O. Box 348,2281 - Rapid City, SD 57105  
Phone: 605.348.2281 Fax: 605.348.6006  
email: info@wyssassociates.com

Designed By: MCF / PHW  
Design Date: FEB. 2010  
Internal Job No: 05113.2  
Surveyed By: PMG, Inc.  
Survey Date: AUG. 2009

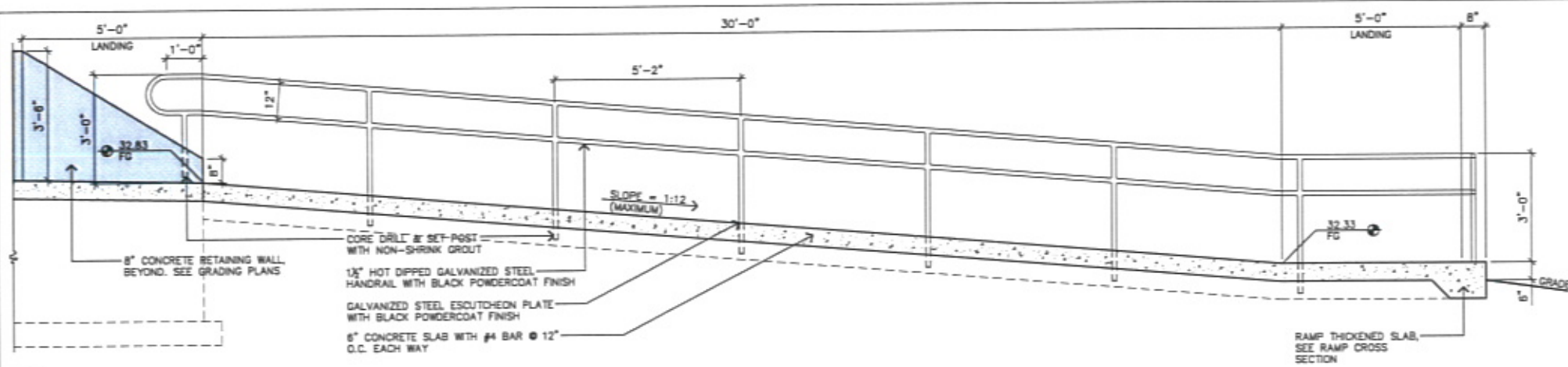
Drawn By: CMW / AKW  
Print Date: 02-25-10

**POWOW GARDENS & ART MARKET**

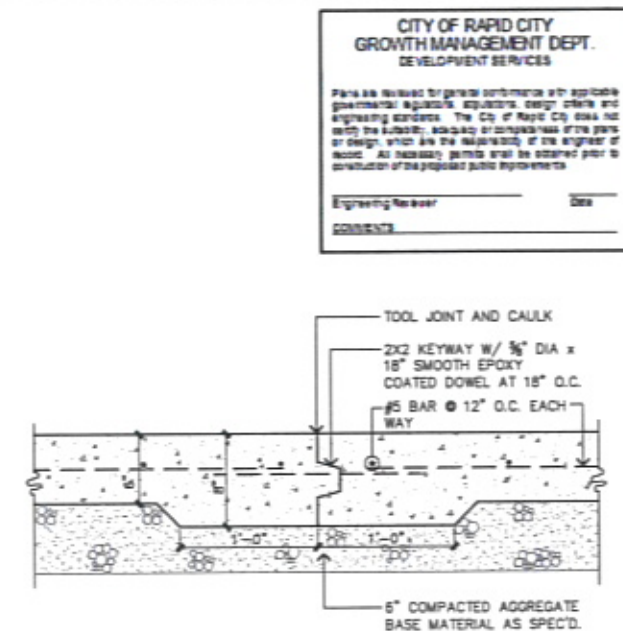
PROJECT NO. RC09-180505703

Sheet Title: **SITE DETAILS**

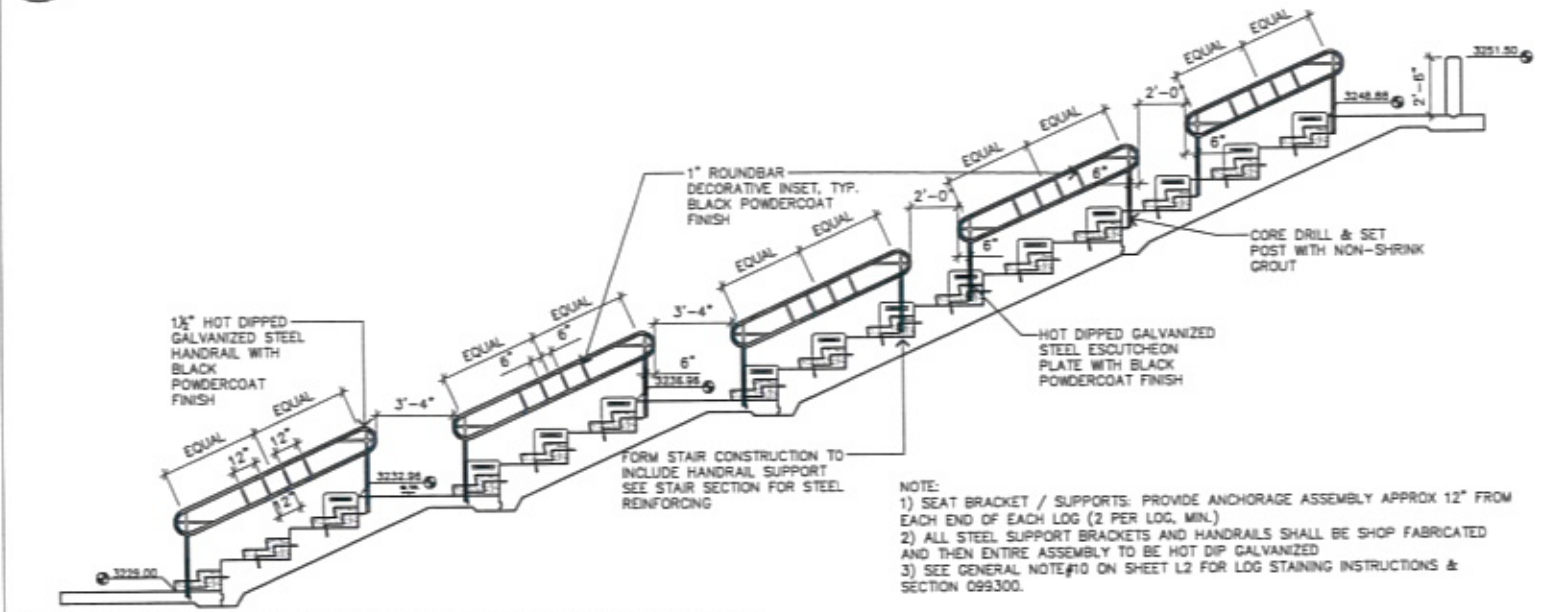
Sheet: **DTL4 of 32**



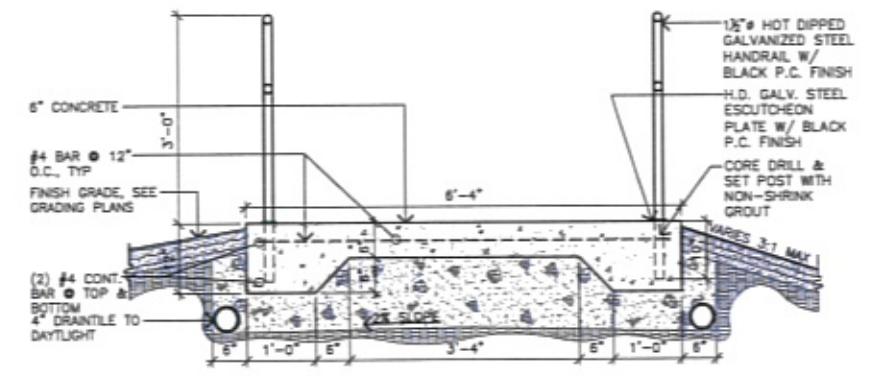
**1** SECTION: ADA RAMP LONGITUDINAL SECTION  
 DTL5 SCALE: 1/2" = 1'-0"



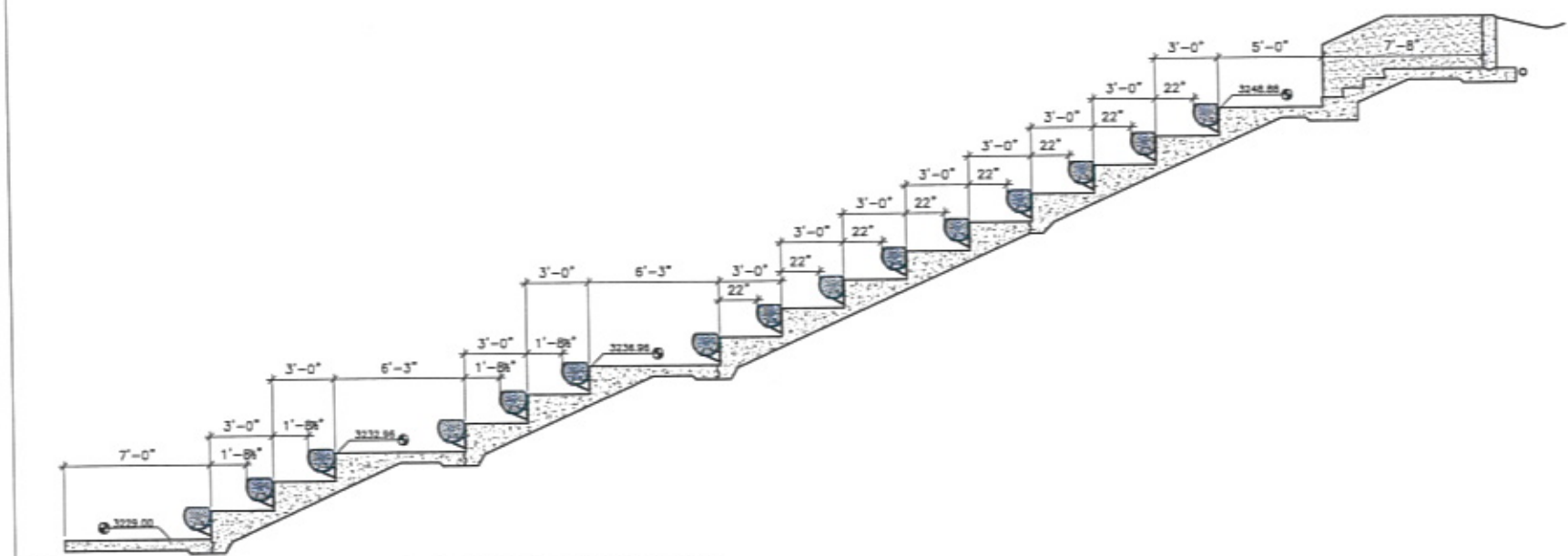
**2** SECTION: CONSTRUCTION JOINT  
 DTL5 SCALE: 1 1/2" = 1'-0"



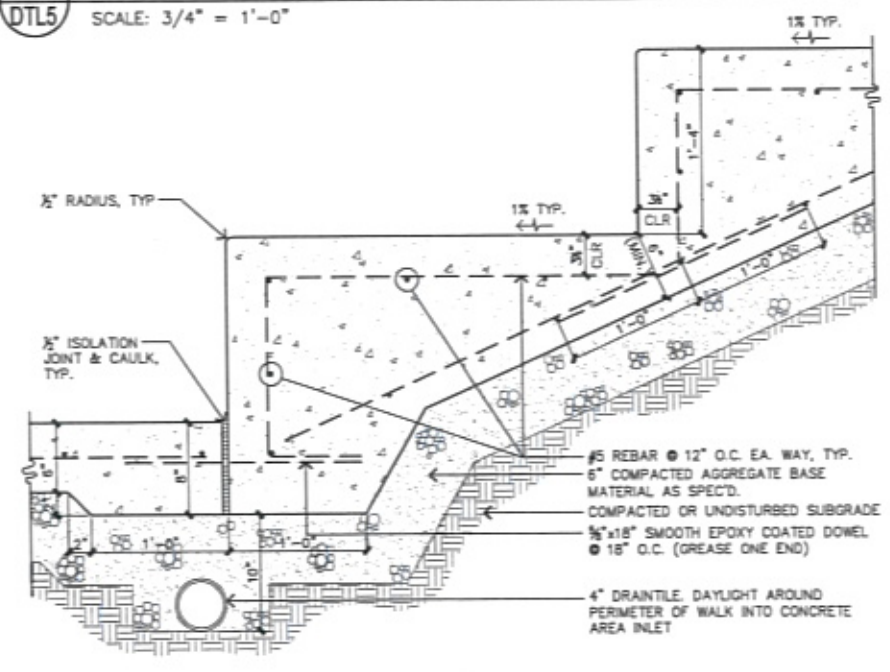
**3** SECTION: AMPHITHEATER CROSS SECTIONS AT STAIRS  
 DTL5 SCALE: 1/4" = 1'-0"



**4** SECTION: ADA RAMP  
 DTL5 SCALE: 3/4" = 1'-0"



**5** SECTION: AMPHITHEATER CROSS SECTION AT SEATING  
 DTL5 SCALE: 1/4" = 1'-0"



**6** SECTION: AMPHITHEATRE AT PERIMETER WALK  
 DTL5 SCALE: 1 1/2" = 1'-0"

**CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES**

Plans are prepared for general contractors with applicable governmental agencies, engineers, design artists and engineering standards. The City of Rapid City does not warrant the accuracy, adequacy or completeness of the plans or design, which are the responsibility of the engineer or artist. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Review: \_\_\_\_\_ Date: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_



Prepared For: Public Works Department

Prepared By: **Wyss Associates, Inc.**  
 Landscape Architecture  
 Golf Course Architecture  
 Parks & Recreation Design

730 84th Street - Rapid City, South Dakota 57701-3670  
 Ph: 605.348.2268 Fax: 605.348.6008  
 email: info@wyssassociates.com



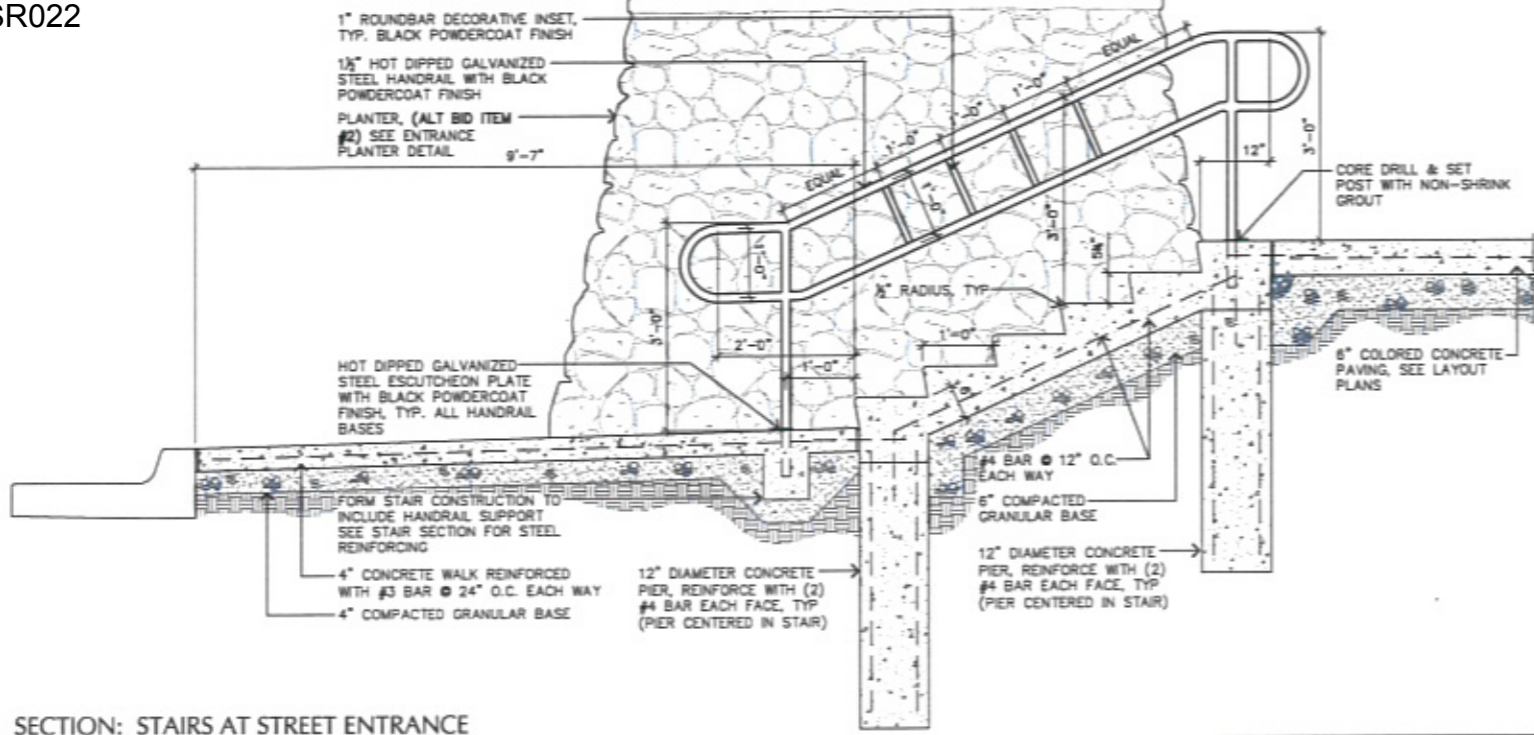
Designed By: MDJ / PHV	Drawn By: CMW / AKW
Design Date: FEB. 2010	Print Date: 02-25-10
Internal Job No: 05113.2	
Surveyed By: FMG, Inc.	Survey Date: AUG. 2005
Revisions:	

**POWOW GARDENS &  
 ART MARKET**

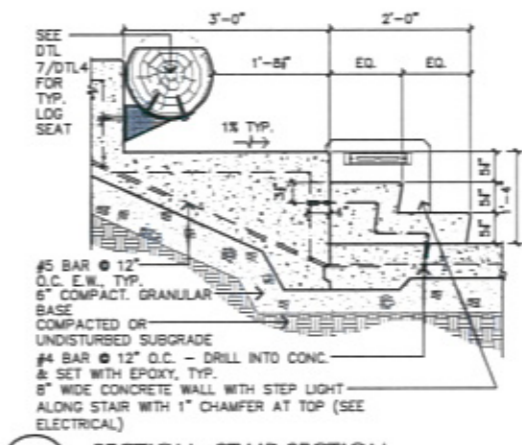
PROJECT NO. RC10A-180050710

Sheet Title: SITE DETAILS

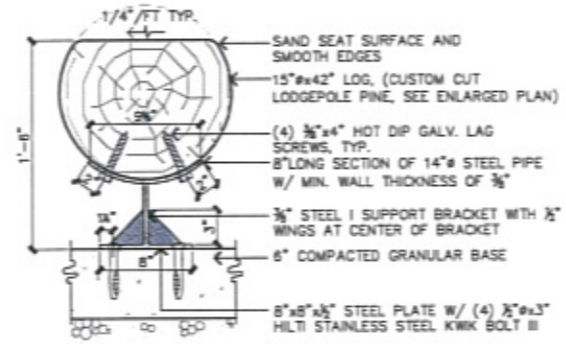
Sheet: DTL5 of 32



**1** SECTION: STAIRS AT STREET ENTRANCE  
DTL6 SCALE: 3/4" = 1'-0"

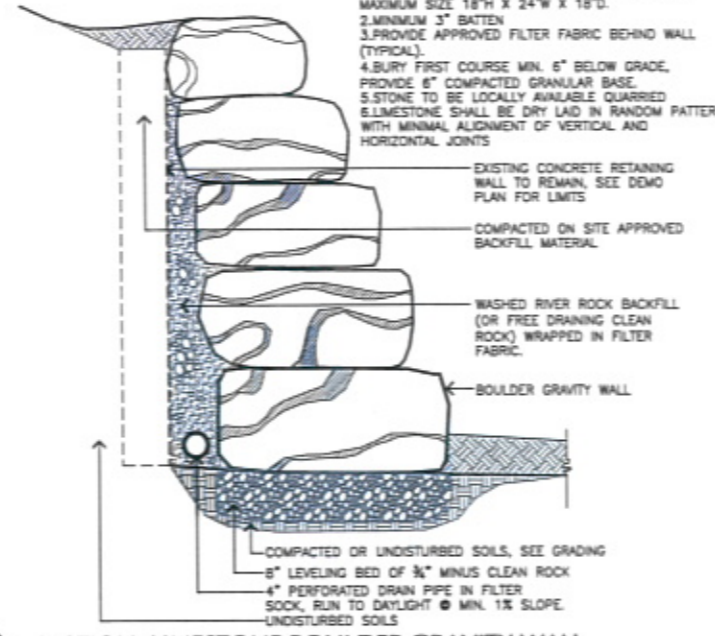


**2** SECTION: STAIR SECTION  
DTL6 SCALE: 3/4" = 1'-0"

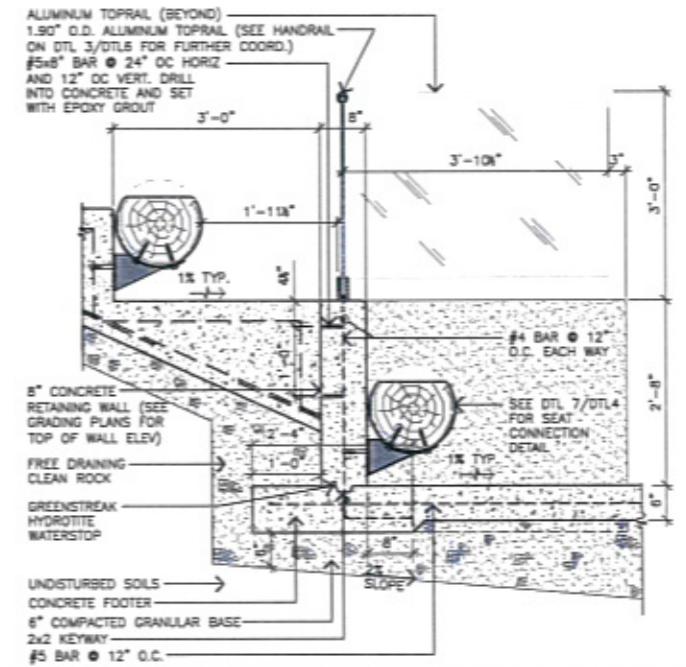


**4** SECTION: HANDICAP COMPANION SEATING  
DTL6 SCALE: 1 1/2" = 1'-0"

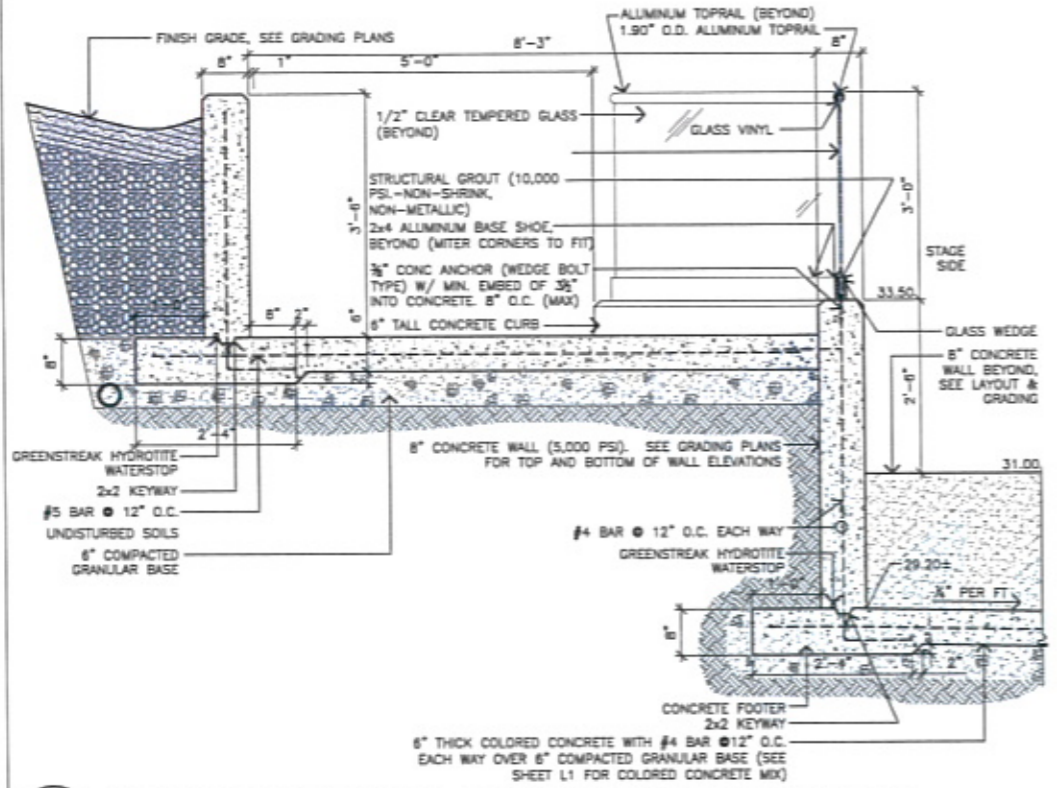
**NOTES:**  
 1. MINIMUM BOULDER SIZE 12" H X 24" W X 18" D, MAXIMUM SIZE 18" H X 24" W X 18" D.  
 2. MINIMUM 3" BATTEN  
 3. PROVIDE APPROVED FILTER FABRIC BEHIND WALL (TYPICAL).  
 4. BURY FIRST COURSE MIN. 6" BELOW GRADE, PROVIDE 6" COMPACTED GRANULAR BASE.  
 5. STONE TO BE LOCALLY AVAILABLE QUARRIED LIMESTONE SHALL BE DRY LAID IN RANDOM PATTERN WITH MINIMAL ALIGNMENT OF VERTICAL AND HORIZONTAL JOINTS



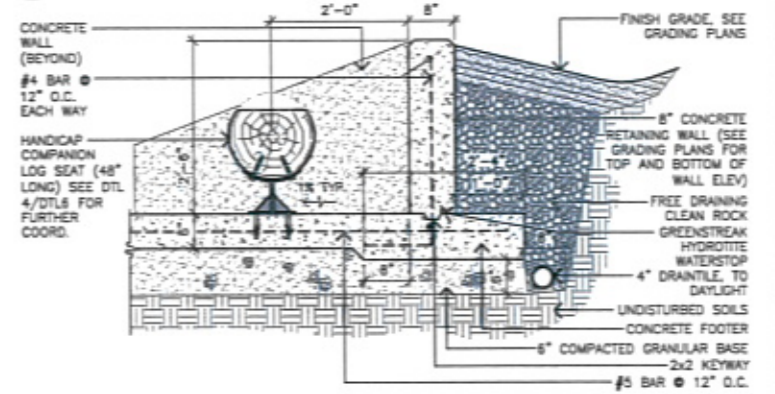
**5** SECTION: LIMESTONE BOULDER GRAVITY WALL  
DTL6 SCALE: 3/4" = 1'-0"



**6** SECTION: RETAINING WALL AT HANDICAP SEATING  
DTL6 SCALE: 3/4" = 1'-0"



**3** SECTION: RETAINING WALL / GUARDRAIL AT HANDICAP SEATING  
DTL6 SCALE: 3/4" = 1'-0"



**7** SECTION: RETAINING WALL AT HANDICAP SEATING  
DTL6 SCALE: 3/4" = 1'-0"

**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

Please see notices for general information with applicable governmental agencies, regulations, design orders and engineering standards. The City of Rapid City does not warrant the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer or architect. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

Comments: \_\_\_\_\_



Prepared For: **Wyss Associates, Inc.**  
 Landscape Architecture  
 Golf Course Architecture  
 Parks & Recreation Design

728 South Street - Rapid City, South Dakota 57701-3670  
 605.343.4444  
 email: info@wyssassociates.com



Designed By: MCF / PHW	Drawn By: CMW / AKW
Design Date: FEB. 2010	Print Date: 02-25-10
Internal Job No: 05113.2	Surveyed By: FMG, Inc.
Surveyed By: FMG, Inc.	Survey Date: AUG. 2009
Revisions:	

**POWOW GARDENS &  
ART MARKET**



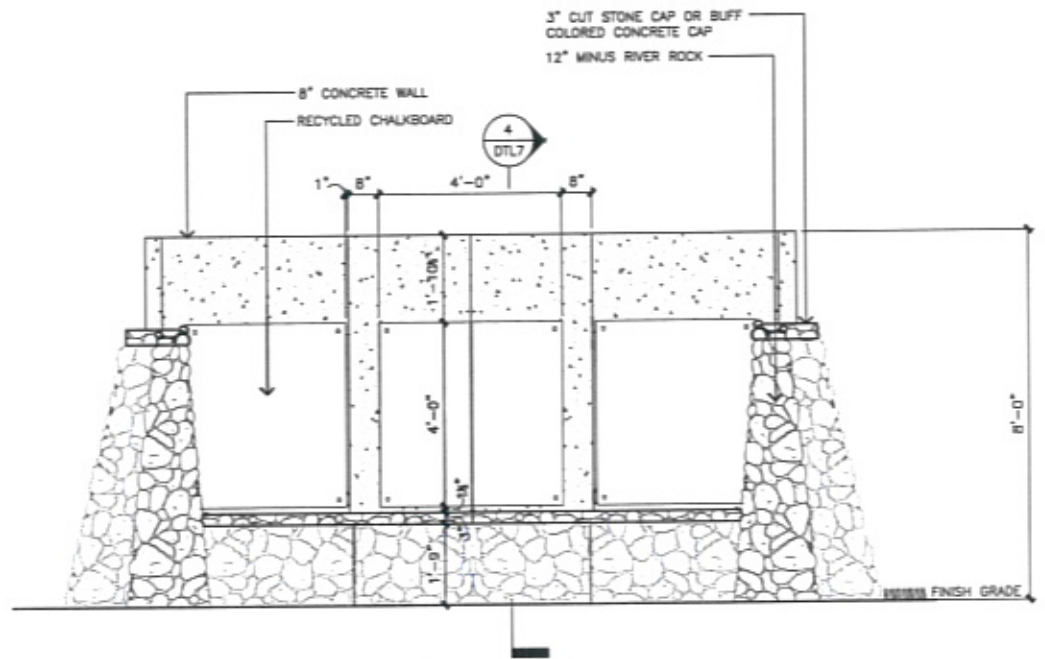
Prepared For:  
**Wyss Associates, Inc.**  
 Landscape Architecture  
 Civil Engineer  
 Parks & Recreation Design  
 728 South Street - Rapid City, South Dakota 57701-3670  
 Ph: 605.348.2268 Fax: 605.348.0508  
 email: info@wyssassociates.com



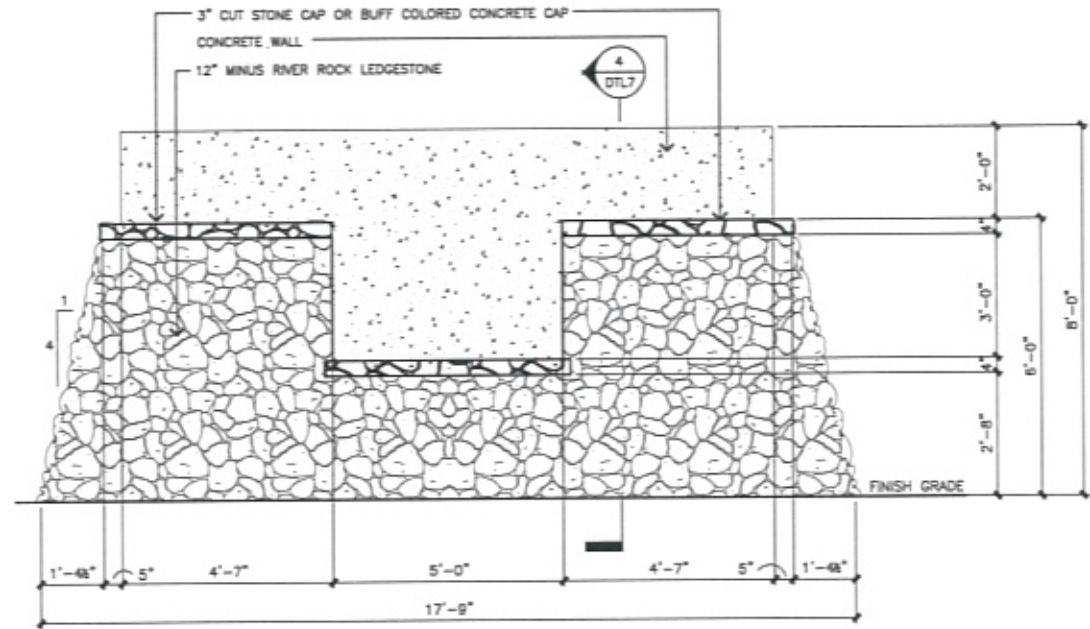
Designed By: MCF / PHW  
 Drawn By: CMW / AKW  
 Design Date: FEB 2010  
 Print Date: 02-26-10  
 Project Job No: 05113.2  
 Surveyed By: FMG, Inc.  
 Survey Date: AUG 2009  
 Revisions:

**POWOW GARDENS & ART MARKET**

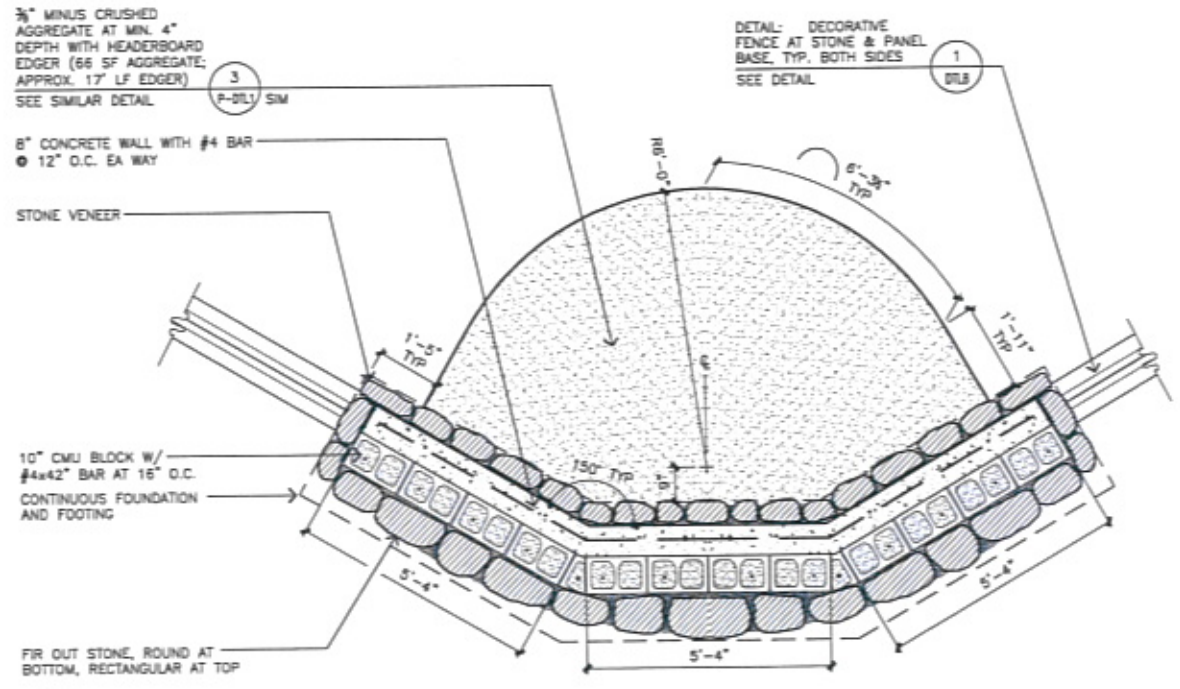
PROJECT NO. PC09-100000001



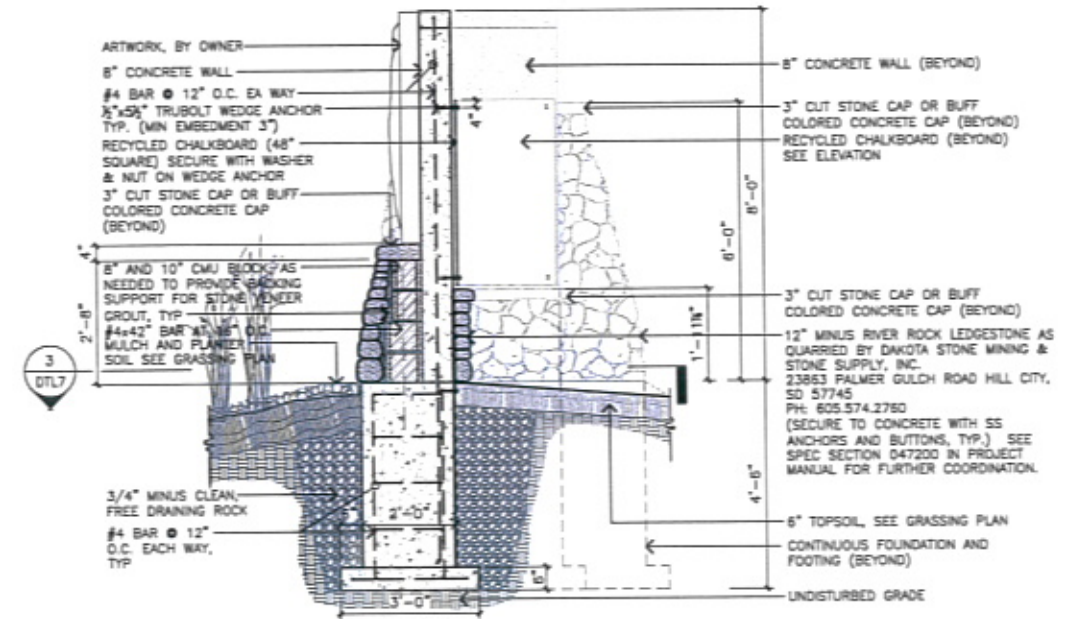
**1 NORTH ELEVATION: STONE & PANEL BASE**  
 SCALE: 1/2" = 1'-0"  
 ALTERNATE BID ITEM #3



**2 SOUTH ELEVATION: STONE & PANEL BASE**  
 SCALE: 1/2" = 1'-0"  
 ALTERNATE BID ITEM #3



**3 PLAN: STONE & PANEL BASE**  
 SCALE: 1/2" = 1'-0"  
 ALTERNATE BID ITEM #3



**4 SECTION: STONE & PANEL BASE**  
 SCALE: 1/2" = 1'-0"  
 ALTERNATE BID ITEM #3

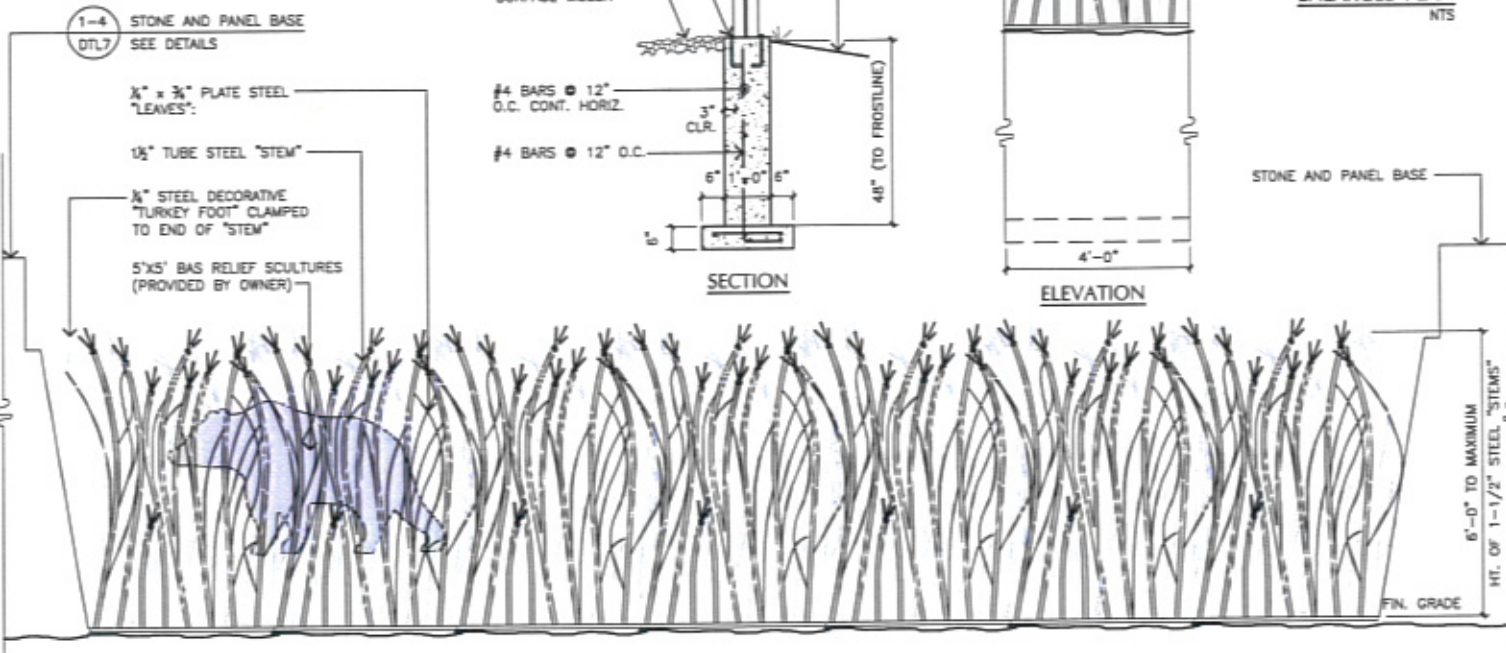
**CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES**

Plans are subject to general conformances with applicable governmental regulations, engineering design codes and engineering standards. The City of Rapid City does not warrant the validity, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Review: \_\_\_\_\_ Date: \_\_\_\_\_  
 COMMENTS:

SITE DETAILS

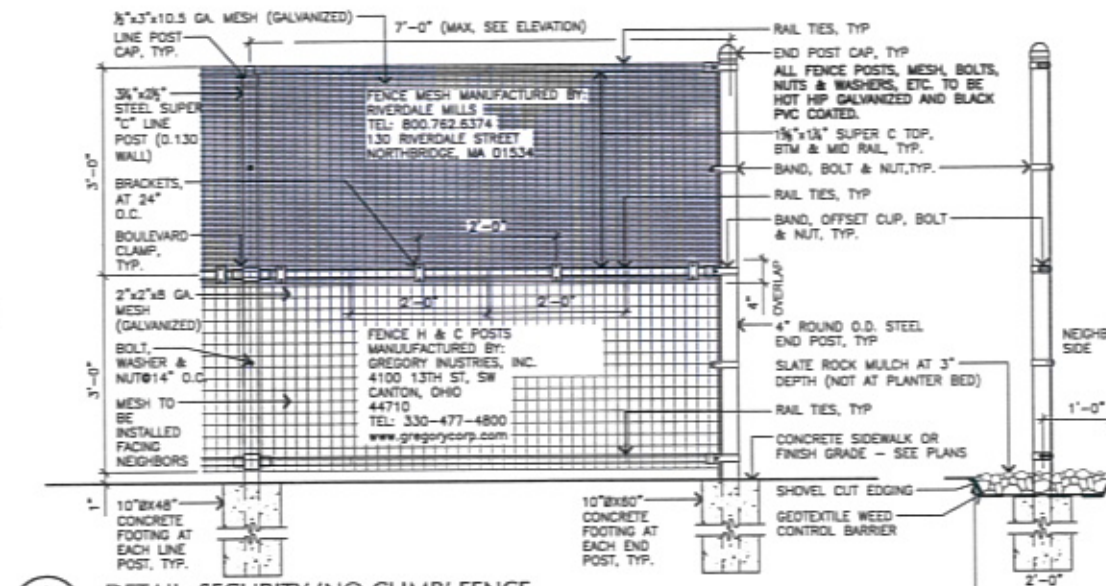
NOTE:  
 PRIME WITH (2) TWO COATS BASE COAT & (1) COAT RUSTOLEUM PAINT PER FOLLOWING:  
 BASE PLATES - BROWN  
 VERTICAL STEMS AND LEAVES:  
 LIGHT GREEN (PANEL SECTION),  
 DARK GREEN - MIDDLE WEST PANEL SECTION,  
 DEEP RED - MIDDLE EAST PANEL SECTION,  
 BROWN - EAST PANEL SECTION  
 PROVIDE (3) INTERMEDIATE SHADES OF EACH COLOR WITHIN EACH SECTION.



1 DETAIL: DECORATIVE FENCE @ STONE & PANEL BASE

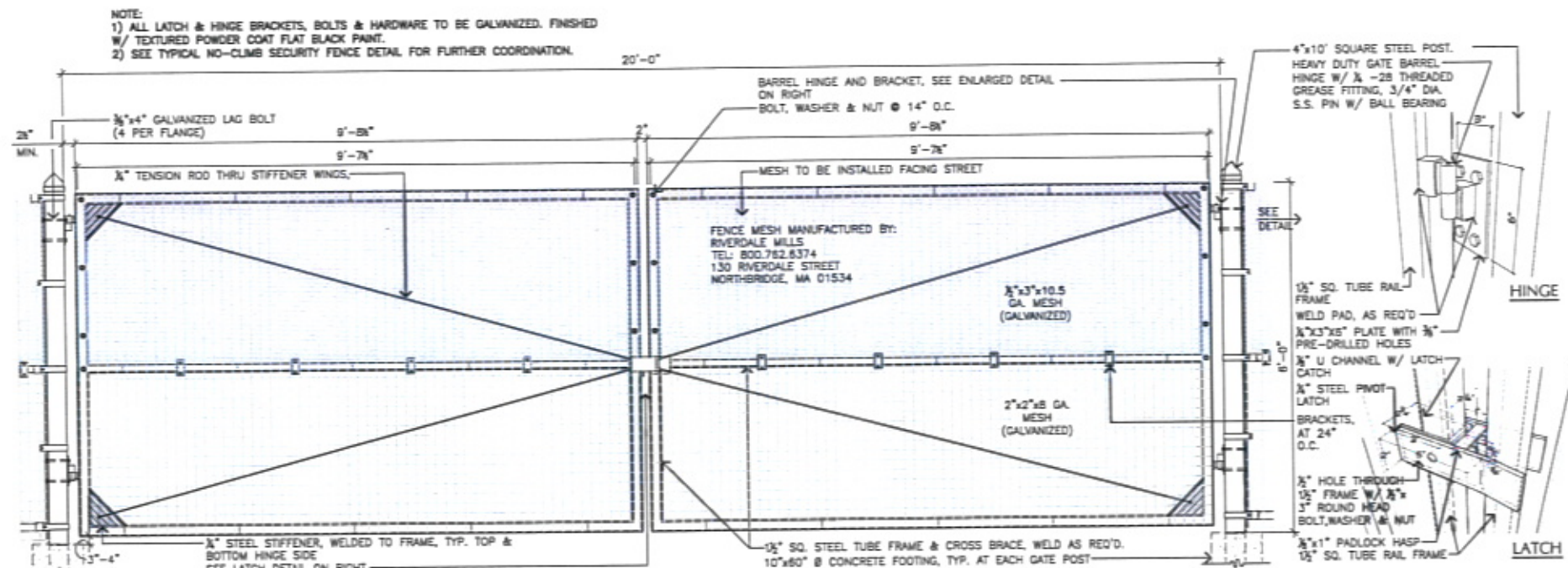
DTL8 SCALE: 1/2" = 1'-0"

ALTERNATE BID ITEM #3



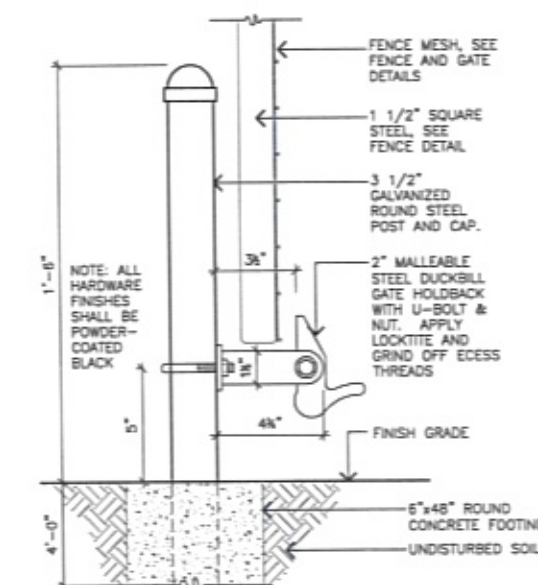
2 DETAIL: SECURITY 'NO-CRIMB' FENCE

DTL8 SCALE: 3/4" = 1'-0"



3 DETAIL: 6' TALL 'NO-CRIMB' FENCE GATE (20'-0\"/>

DTL8 SCALE: 3/4" = 1'-0"



4 DETAIL: GATE HOLDBACK

DTL8 SCALE: 3" = 1'-0"

CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES

Plans are prepared to provide conformances with applicable governmental regulations, inspectors, design criteria and engineering standards. The City of Rapid City does not warrant the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer or architect. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

Prepared For: **Public Works**  
**RAPID CITY, S.D.**  
 Department

Prepared By: **Wyss Associates, Inc.**  
 Landscape Architecture  
 Parks & Recreation Design  
 728 South Street - Rapid City, South Dakota 57701-3870  
 Ph: 605.348.2268 Fax: 605.348.6508  
 email: info@wyssassociates.com

Professional Seal: **Matthew Wyss**, P.E., License No. 8923, State of South Dakota, expires 04/15/2010

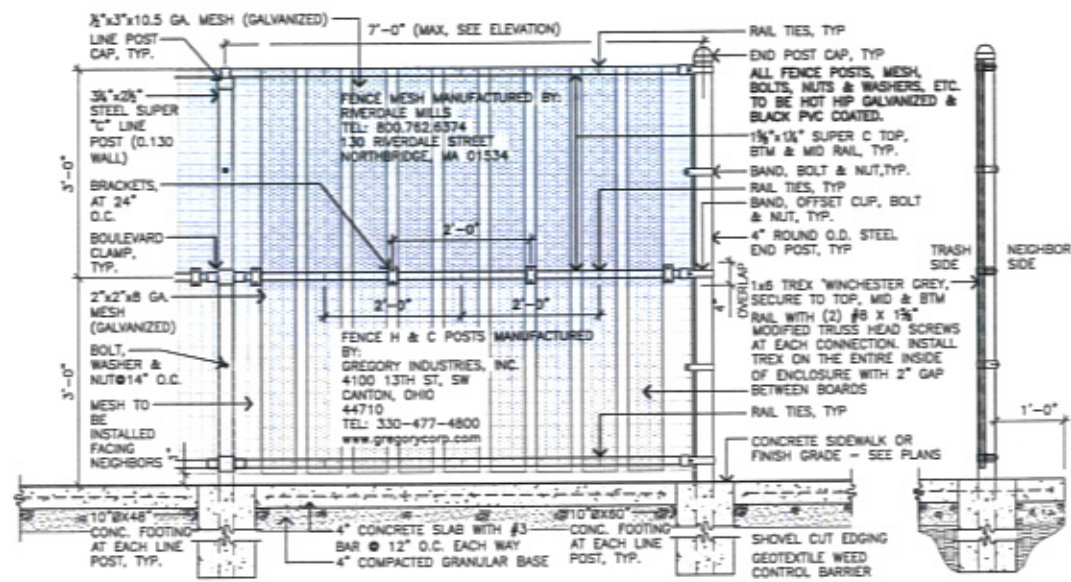
Designed By: MOF / FHW	Drawn By: CMW / AKW
Design Date: FEB 2010	Print Date: 02-25-10
Internal Job No: 05113.2	Survey Date: AUG 2009
Surveyed By: FMG, Inc.	Survey Date: AUG 2009
Revisions:	

**POWOW GARDENS & ART MARKET**

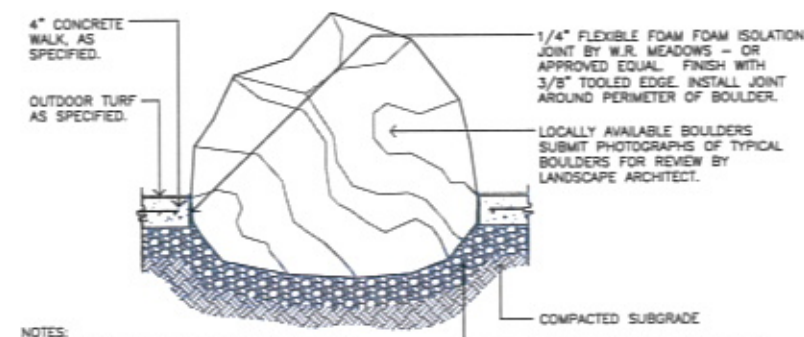
PROJECT NO. RC06-16606703

Sheet Title: **SITE DETAILS**

Scale: **DTL8 of 32**

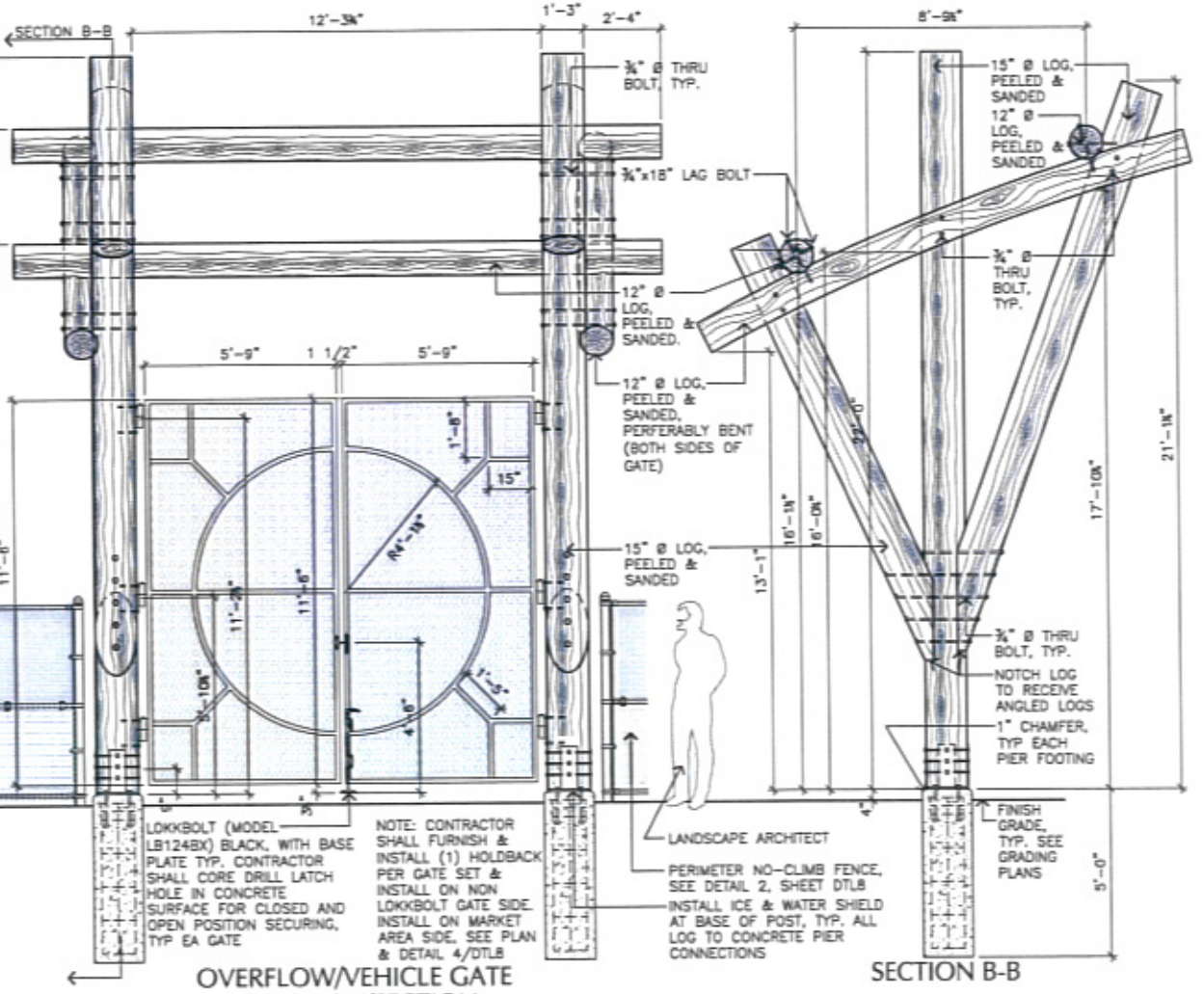
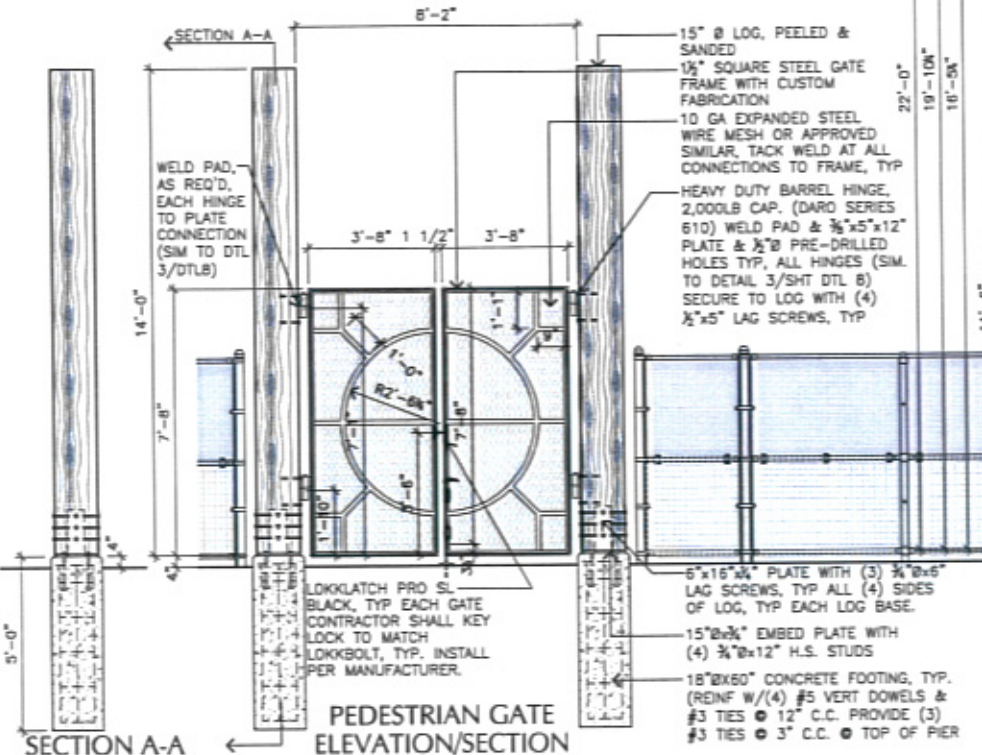


**1** **DTL9** **DETAIL: SECURITY 'NO-CLIMB' FENCE AT TRASH ENCLOSURE**  
SCALE: 3/4" = 1'-0"



**2** **DTL9** **SECTION: BOULDER PLACEMENT IN CONCRETE**  
SCALE: 1" = 1'-0"

NOTE:  
1. ALL STEEL BRACKETS, PLATES, LAG & THROUGH BOLTS TO BE HOT DIP GALVANIZED  
2. DARD HINGES:  
4099 WHITE BEAR PARKWAY  
WHITE BEAR LAKE, MN 55110  
TEL: 651-483-2798  
3. LOKKLATCH & LOKKBOLT MANUFACTURER:  
D&D TECHNOLOGIES  
7731 WOODWIND DRIVE  
HUNTINGTON BEACH, CA 92647  
TEL: 800-716-0888



**3** **DTL9** **DETAILS/SECTIONS: MAIN PEDESTRIAN AND OVERFLOW GATE**  
SCALE: 3/8" = 1'-0"

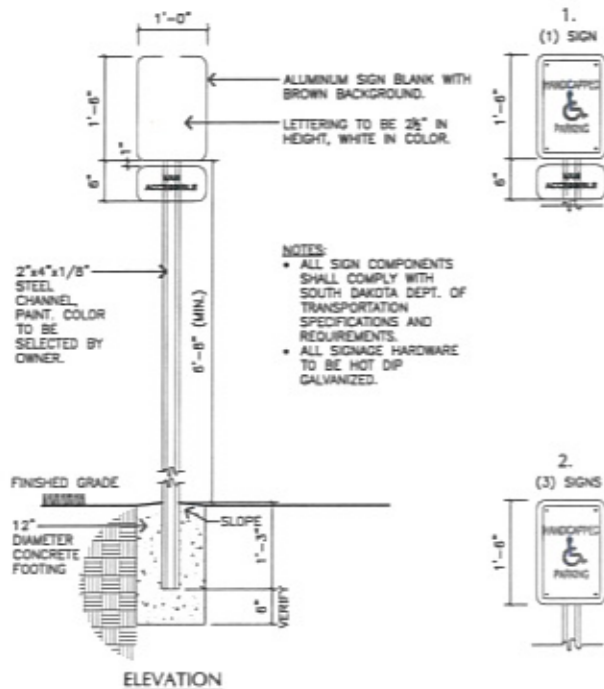
**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

Plans are prepared for general information with applicable governmental agencies, engineers, design firms and engineering assistants. The City of Rapid City does not warrant the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer or architect. All necessary permits shall be obtained prior to construction of the proposed public improvements.

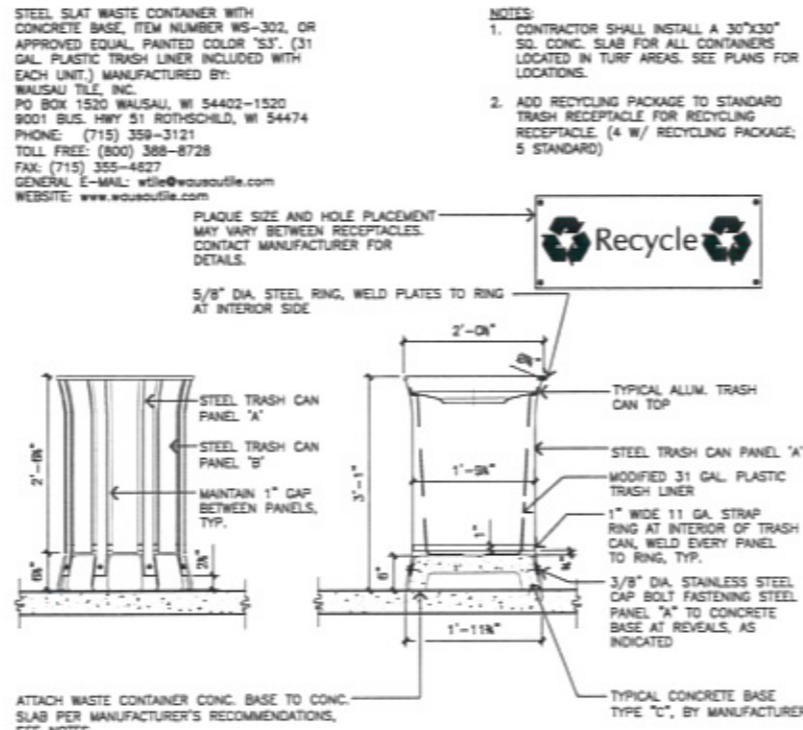
Engineering Manager \_\_\_\_\_ Date \_\_\_\_\_  
Contractor \_\_\_\_\_

Designed By: MDP / PHW  
Design Date: FEB. 2010  
Internal Job No: 05113.2  
Surveyed By: FMG, Inc.  
Drawn By: CMW / AKW  
Print Date: 02-26-10  
Survey Date: AUG. 2009

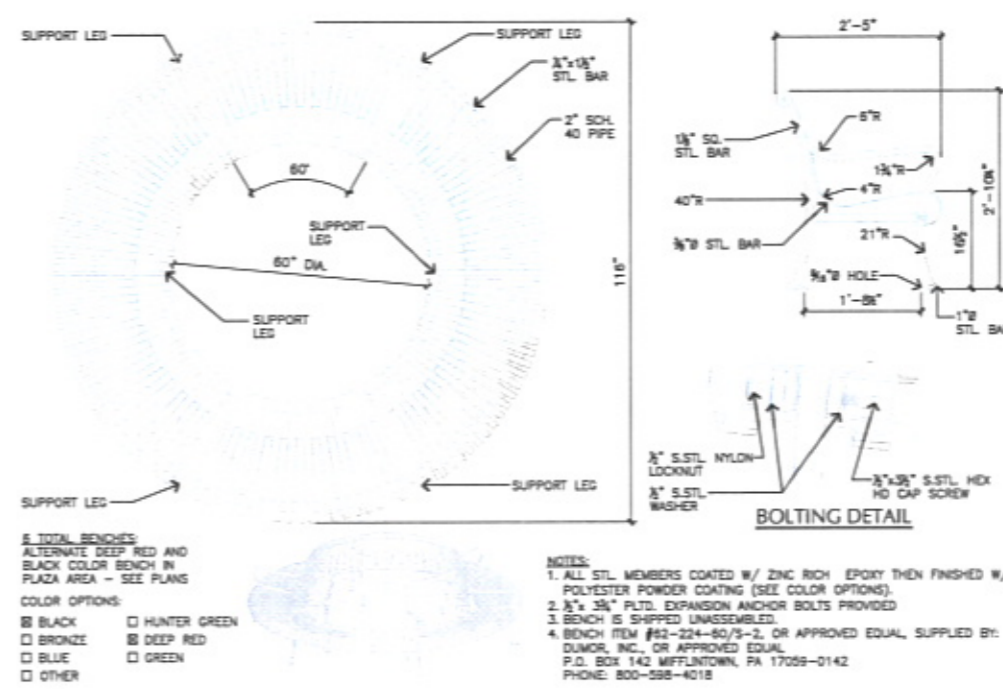
**POWOW GARDENS &  
ART MARKET**



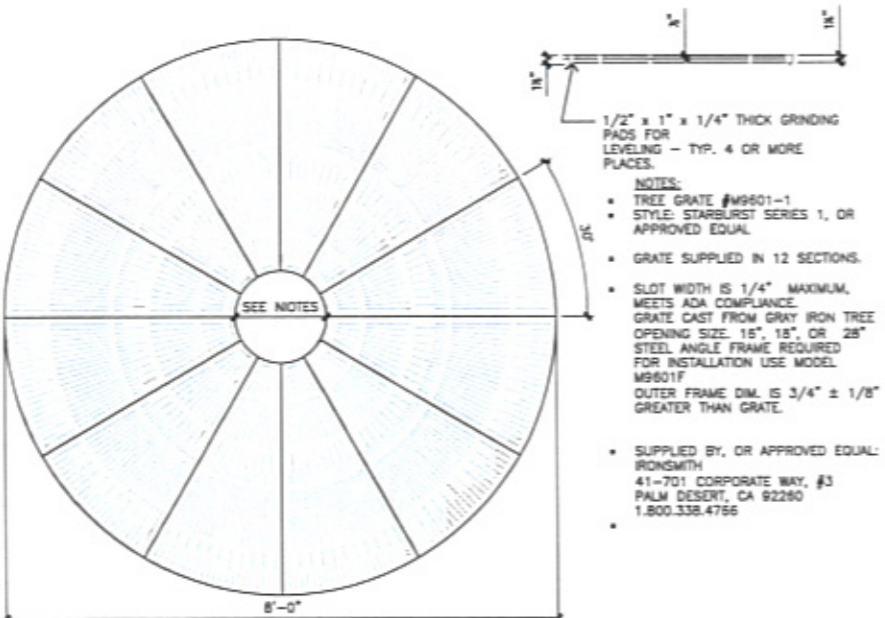
1 ELEVATION / SECTION: TYPICAL SIGNAGE DETAIL  
SCALE: 3/4" = 1'-0"



2 STEEL SLAT RECEPTACLE WITH CONCRETE BASE  
SCALE: 3/4" = 1'-0"  
ALTERNATE BID ITEM #5



3 CIRCULAR BENCH  
SCALE: 3/4" = 1'-0"  
ALTERNATE BID ITEM #5



4 ROUND TREE GRATE 8' DIAMETER  
SCALE: 3/4" = 1'-0"

CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES

Plans are reviewed for general conformance with applicable governmental regulations, specifications, design criteria and engineering standards. The City of Rapid City does not warrant the liability, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_  
Comments: \_\_\_\_\_

Prepared For: **PUBLIC WORKS DEPARTMENT**  
City of Rapid City

Prepared By: **WYSS ASSOCIATES, Inc.**  
Landscape Architecture  
Golf Course Architecture  
Parks & Recreation Design

728 South Street - Rapid City, South Dakota 57701-3870  
Ph: 605.348.2268 Fax: 605.348.0508  
email: info@wyssassociates.com

Professional Seal: **LANDSCAPE ARCHITECT**  
W. M. Theurer  
0823  
09/19/2010

Designed By: MCF / PHW  
Design Date: FEB. 2010  
Information No: 05113.2  
Surveyed By: FMS, Inc.  
Survey Date: AUG. 2009  
Revisions:

PROJECT NO. RCIDR-16060703

**POWOW GARDENS & ART MARKET**

Sheet Title: **SITE DETAILS**

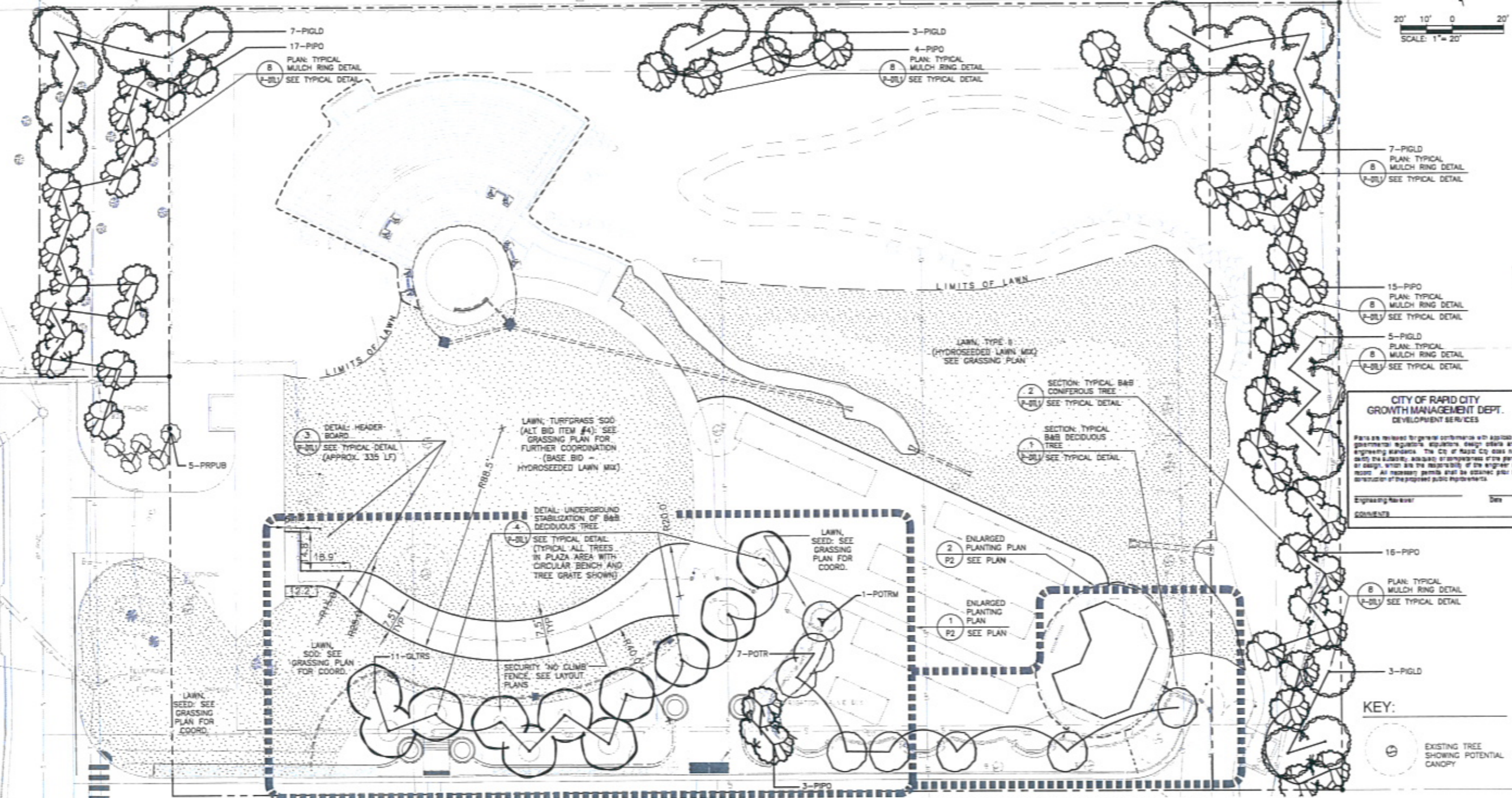
Sheet: **DTL10 of 32**



TREE PLANTING SCHEDULE - Reference This Sheet for Locations

**EXISTING UTILITIES LOCATIONS:**  
 THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNERS OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. CONTACT THE SOUTH DAKOTA ONE CALL NOTIFICATION CENTER 2025 CENTRE POINTE BOULEVARD #310 MENDOTA HEIGHTS, MN 55120 1-800-781-7474

QTY	SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	HEIGHT	COMMENTS
<b>DECIDUOUS TREES</b>						
11	GLTRS	SHADEMASTER® HONEYLOCUST	GLEDISIA TRACANTHOS 'SHADEMASTER'	1 1/2" CAL.	10'-12' HGT.	B&B, SPACE PER PLANS
7	POTR	QUAKING ASPEN	POPULUS TREMULOIDES	1 1/2" CAL.	10'-12' HGT.	B&B, SPACE PER PLANS
1	POTRM	QUAKING ASPEN	POPULUS TREMULOIDES 'MULTI'	1 1/2" CAL.	10'-12' HGT.	MULTI STEMMED
<b>CONIFEROUS TREES</b>						
25	PIGLD	BLACK HILLS SPRUCE	PICEA GLAUCA 'DENSATA'	3-4" SPREAD	10'-12' HGT.	B&B
55	PIPO	PONDEROSA PINE	PINUS PONDEROSA	3-4" SPREAD	10'-12' HGT.	B&B



**CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES**

Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not warrant the accuracy, reliability or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Review: \_\_\_\_\_  
 Date: \_\_\_\_\_

**GENERAL PLANTING NOTES**

- CONTRACTOR SHALL LOCATE AND PROTECT ALL EXISTING UTILITIES. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED UTILITIES AT NO COST TO OWNER.
- ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN OR EQUIVALENT.
- ALL TREE AND SHRUB LOCATIONS SHALL BE STAKED OR LAID OUT BY CONTRACTOR AND APPROVED BY PROJECT LANDSCAPE ARCHITECT.
- ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING.
- ALL PLANTS AND STAKES SHALL BE SET PLUMB UNLESS OTHERWISE SPECIFIED.
- ALL PLANTS SHALL BE INSTALLED IN ACCORDANCE WITH ALL DRAWINGS AND SPECIFICATIONS.
- ALL SHRUB BEDS ARE TO RECEIVE MULCH AS SPECIFIED IN 'PLANTS' SECTION 329300 AND AS SHOWN ON SHEET L2.27 TURFING PLAN.
- CONTRACTOR SHALL PROVIDE SOILS PER 'PLANTS' SECTION 329300 OF SPECIFICATIONS.
- PLANTING SEASONS SHALL BE FROM APRIL 15 TO JUNE 15 AND FROM SEPTEMBER 1 TO NOVEMBER 1, UNLESS OTHERWISE COORDINATED. EXCEPTIONS SHALL BE COORDINATED THROUGH THE LANDSCAPE ARCHITECT AND OWNER.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING HEALTH OF ALL PLANT MATERIAL, INCLUDING TREES, SHRUBS, PERENNIALS, TURF GRASSES, AND NATIVE GRASSES UNTIL FINAL ACCEPTANCE OF PROJECT AND MAINTENANCE PERIOD IS COMPLETE.
- ALL PLANTS SHALL BE SPRAYED BY CONTRACTOR WITH AN ANTI-DESICCANT WITHIN 24 HOURS OF PLANTING, AND AT THE BEGINNING OF THEIR FIRST WINTER.
- THE CONTRACTOR SHALL REFER TO THE CONTRACT SPECIFICATIONS AND PLANTING DETAILS FOR ADDITIONAL REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE A ONE (1) YEAR WARRANTY FOR ALL PLANT MATERIAL UNLESS OTHERWISE INDICATED IN SPECIFICATIONS. REPLACEMENT PLANT MATERIAL IS SUBJECT TO THE SAME (1) YEAR WARRANTY.

**CITY OF RAPID CITY POINTS COMPLIANCE**

PROPERTY SQUARE FOOTAGE	142,047 SQ. FT.	
STRUCTURE SQUARE FOOTAGE	6,525 SQ. FT.	
LANDSCAPE POINTS REQUIRED	135,522 POINTS	
DESCRIPTION	UNITS/POINTS GIVEN	TOTAL POINTS
TURF AREA	5,676 S.Y. @ 10 PTS / S.Y.	56,760 PTS.
MEDIUM DECIDUOUS TREES	11 @ 1000 PTS EA.	11,000 PTS.
SMALL DECIDUOUS TREES	8 @ 500 PTS EA.	4,000 PTS.
CONIFEROUS TREES	80 @ 2000 PTS EA.	160,000 PTS.
DECIDUOUS SHRUBS	72 @ 250 PTS EA.	18,000 PTS.
GROUND COVER	701 S.Y. @ 100 PTS/S.Y.	70,100 PTS.
<b>POINTS PROVIDED</b>		<b>319,860 PTS.</b>

Public Works  
 CITY OF RAPID CITY  
 Department

Wysys Associates, Inc.  
 Landscape Architecture  
 Civil/Structural Engineering  
 Parks & Recreation Design  
 728 South Street - Rapid City, South Dakota 57701-3070  
 Ph. 605.348.3768 Fax 605.348.6508  
 email: info@wysysassociates.com

REGISTERED LANDSCAPE ARCHITECT  
 REG. NO. 8823  
 M. J. WYSS  
 R. J. WYSS  
 08/19/2010

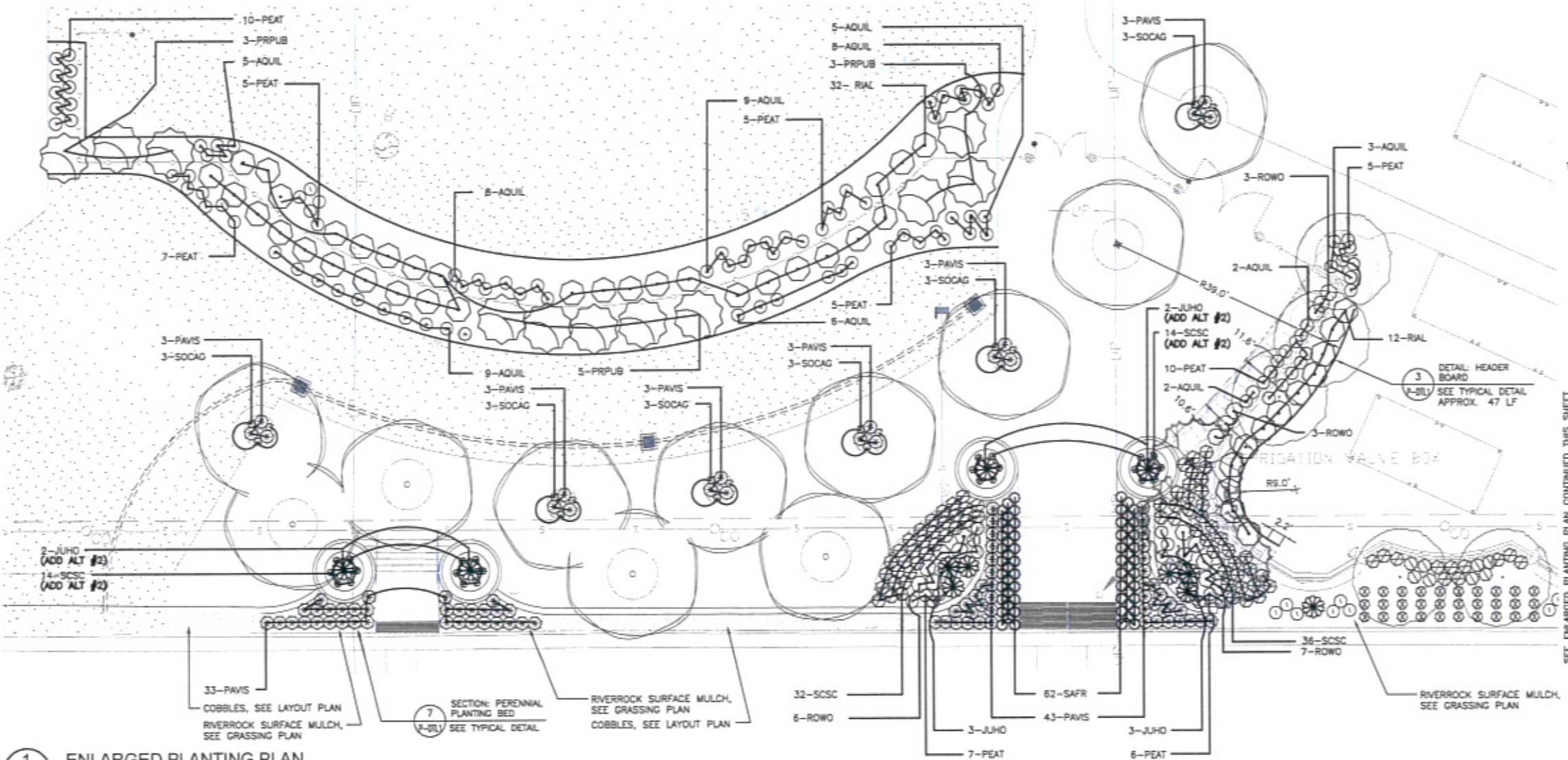
Designed By: MCF / FHW  
 Drawn By: CMW / AKW  
 Design Date: FEB. 2010  
 Print Date: 02-25-10  
 Internal Job No: 09113.2  
 Surveyed By: FMG, Inc.  
 Survey Date: AUG. 2009

**POWOW GARDENS & ART MARKET**

Sheet Title: **PLANTING PLAN**

Sheet: **P1 of 32**

PROJECT NO. RC09-16000703

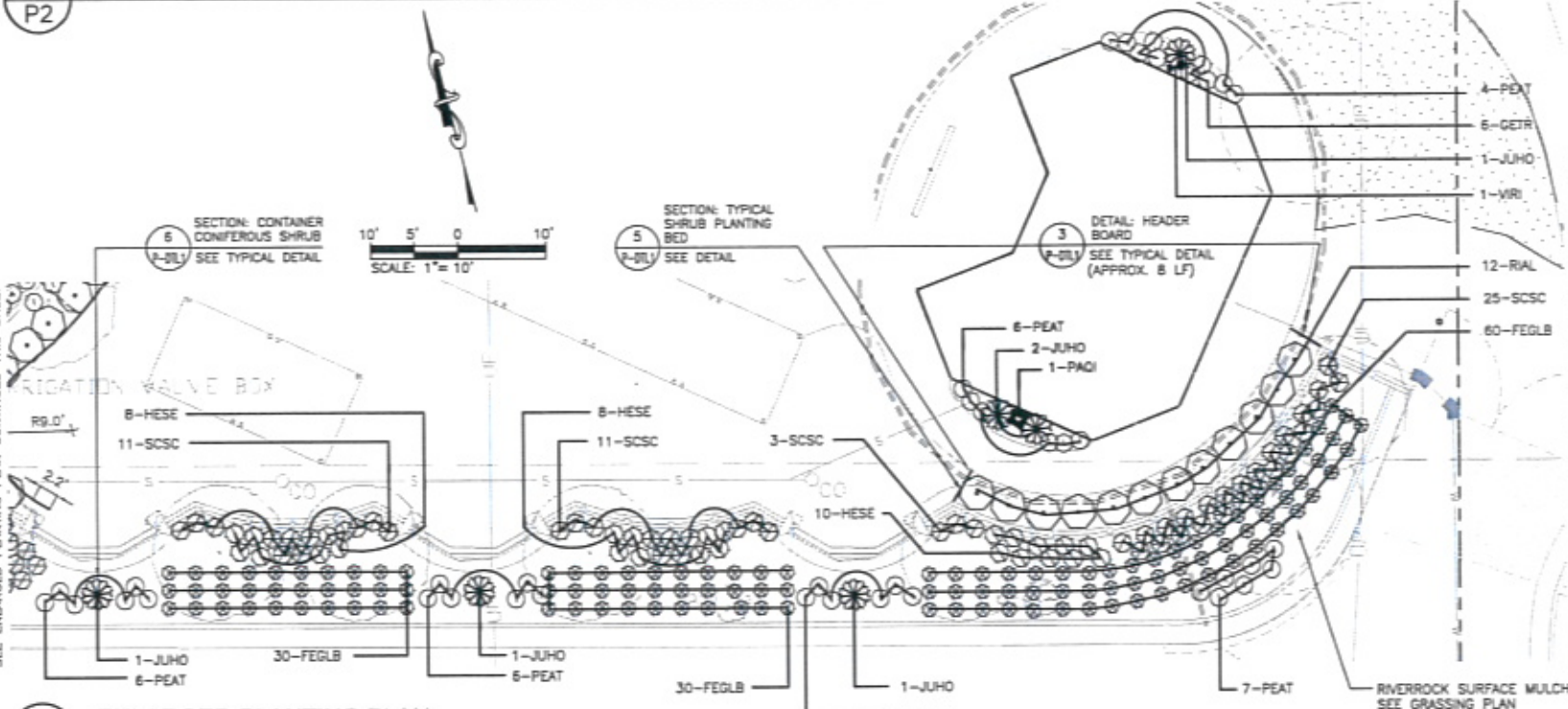


**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

Plans are reviewed for general conformance with applicable governmental regulations, specifications, design orders and engineering standards. The City of Rapid City does not warrant the accuracy, adequacy or completeness of the plans or design, which are the responsibility of the engineer or architect. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Review: \_\_\_\_\_ Date: \_\_\_\_\_  
Comments: \_\_\_\_\_

1 ENLARGED PLANTING PLAN  
P2



**SHRUB AND PERENNIAL PLANTING SCHEDULE**

QTY.	SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	COMMENTS
<b>DECIDUOUS SHRUBS</b>					
6	GETR	OLD MAN'S WHISKERS	GEUM TRIFLORUM	#2 (2 GAL)	SPACE PER PLANS
16	PRPUB	WESTERN SANDCHERRY	PRUNUS PUMILA L. VAR. BESSEYI	#2 (2 GAL)	SPACE PER PLANS
56	RIAL	ALPINE CURRANT	RIBES ALPINUM	#2 (2 GAL)	SPACE PER PLANS
19	ROWO	WOODS' ROSE	ROSA WOODSII	#1 (1 GAL)	SPACE PER PLANS
<b>CONIFEROUS SHRUBS</b>					
16	JUHO	CREeping JUNIPER	JUNIPERUS HORIZONTALIS	#2 (2 GAL)	SPACE PER PLANS
<b>GRASSES</b>					
120	FEGLB	BOULDER BLUE FESCUE	FESTUCA GLAUCA 'BOULDER BLUE'	#SP4	SPACE PER PLANS
26	HESE	BLUE OAT GRASS	HELICTOTRICHON SEMPERVIRENS	#1 (1 GAL)	SPACE PER PLANS
94	PAVIS	SWITCHGRASS	PANICUM VIRGATUM 'SHEWANDOH'	#1 (1 GAL)	SPACE PER PLANS
146	SCSC	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUS	#SP4	SPACE PER PLANS
<b>PERENNIAL/FORBES</b>					
58	AQUIL	COLUMBINE	AQUILEGIA	#SP5	SPACE PER PLANS
96	PEAT	RUSSIAN SAGE	PEROVSKIA ATRIPLICIFOLIA	#1 (1 GAL)	SPACE PER PLANS
82	SAFR	GREEK SAGE	SALVA FRIGIDA	#SP5	SPACE PER PLANS
18	SOCAG	GOLDENROD	SOLIDAGO CANADENSIS 'GOLDEN BABY'	#SP5	SPACE PER PLANS
<b>VINES</b>					
1	PAQI	WOODBINE / VIRGINIA CREEPER	PARTHENOCISSUS QUINQUEFOLIA	#2 (2 GAL)	SPACE PER PLANS
1	VIRI	RIVERBANK GRAPE	VTUS RIPARIA	#2 (2 GAL)	SPACE PER PLANS

2 ENLARGED PLANTING PLAN  
P2

City of Rapid City, South Dakota  
Public Works Department

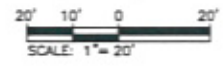
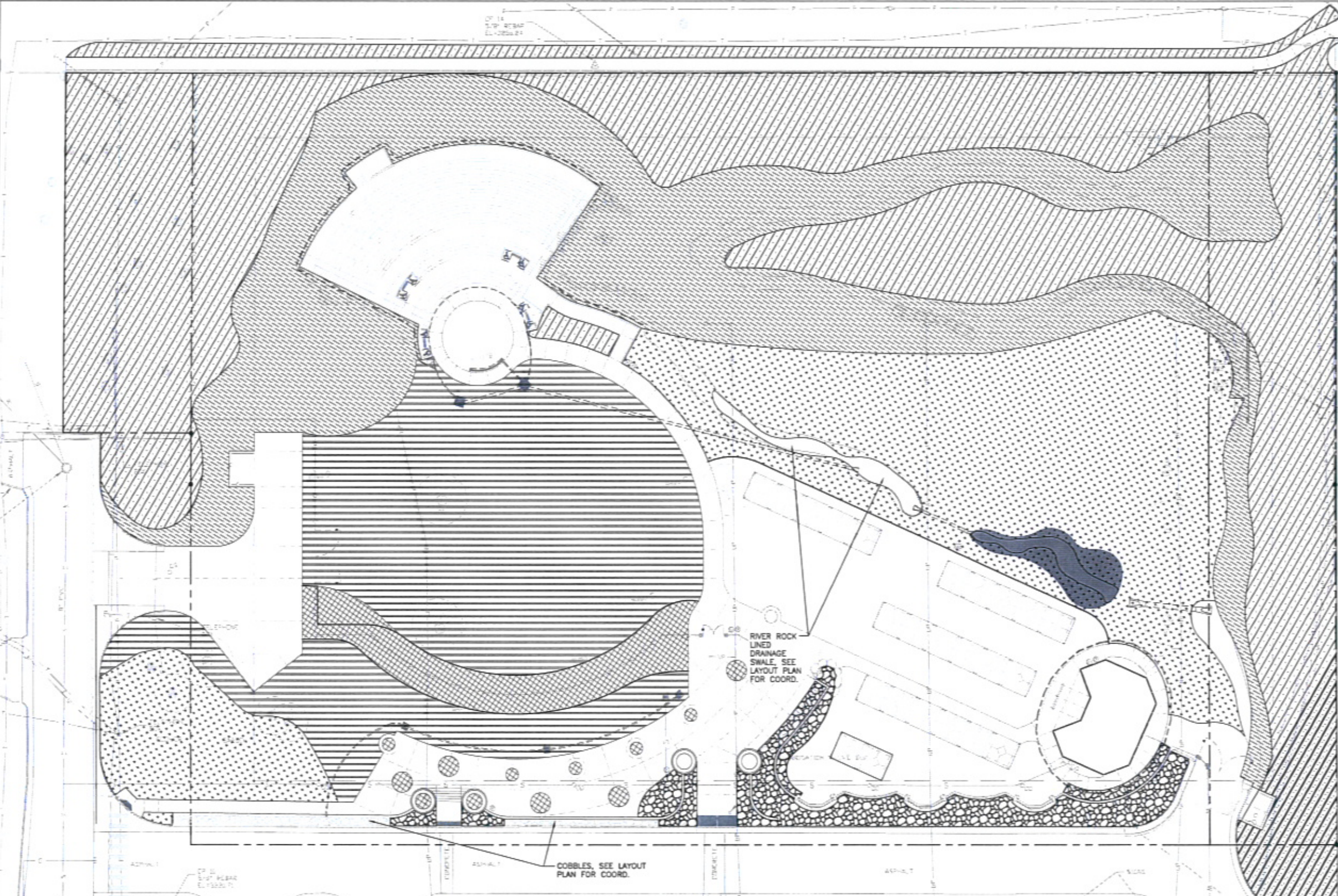
Wyss Associates, Inc.  
Landscape Architecture  
Civil/Structural/Architectural  
Parks & Recreation Design

728 Sixth Street - Rapid City, South Dakota 57701-3070  
Ph: 605.348.2308 Fax: 605.348.0508  
www: info@wyssassociates.com

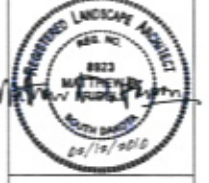
DESIGNED BY: MCF / PMW DRAWN BY: CMW / AKW  
DESIGN DATE: FEB. 2010 PRINT DATE: 02-26-10  
INTERNAL JOB NO: 051132  
SURVEYED BY: FMG, INC. SURVEY DATE: AUG. 2009

**POWOW GARDENS & ART MARKET**

Sheet Title: ENLARGED PLANTING PLAN  
Sheet: P2 of 32  
PROJECT NO. RC09-160490703



Prepared For  
**Wyss Associates, Inc.**  
 Landscape Architecture  
 Civil Engineer  
 Park & Recreation Design  
 720 34th Street - Rapid City, South Dakota 57701-3870  
 Ph: 605.348.2268 Fax: 605.348.6516  
 email: info@wyssassociates.com



Designed By: MCF / PHW  
 Drawn By: CMW / AKW  
 Design Date: FEB. 2010  
 Print Date: 02-26-10  
 Internal Job No: 05113.2  
 Submitted By: F&G, Inc.  
 Survey Date: AUG. 2009  
 Revisions:

**POWOW GARDENS & ART MARKET**








PROJECT NO. 10SR022

Sheet Title

GRASSING PLAN

Sheet

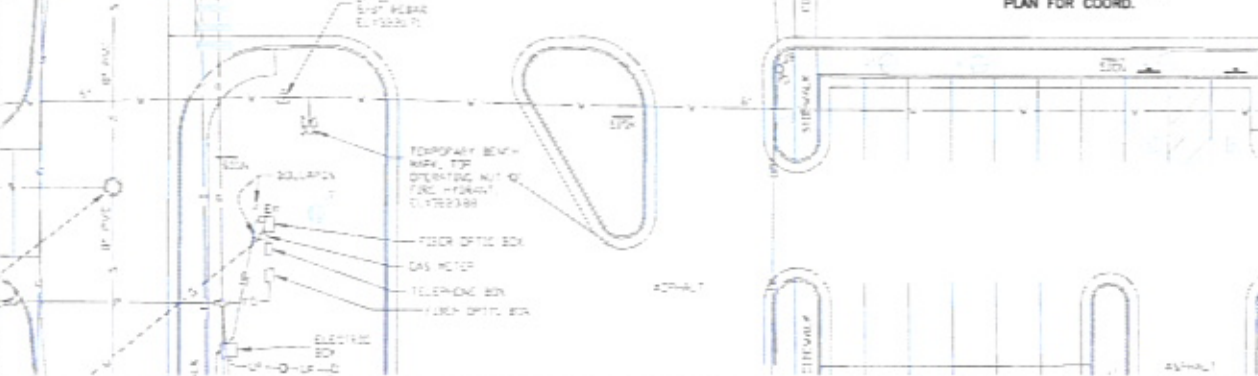
**SEED MIXES & SOIL CONDITIONING KEY**

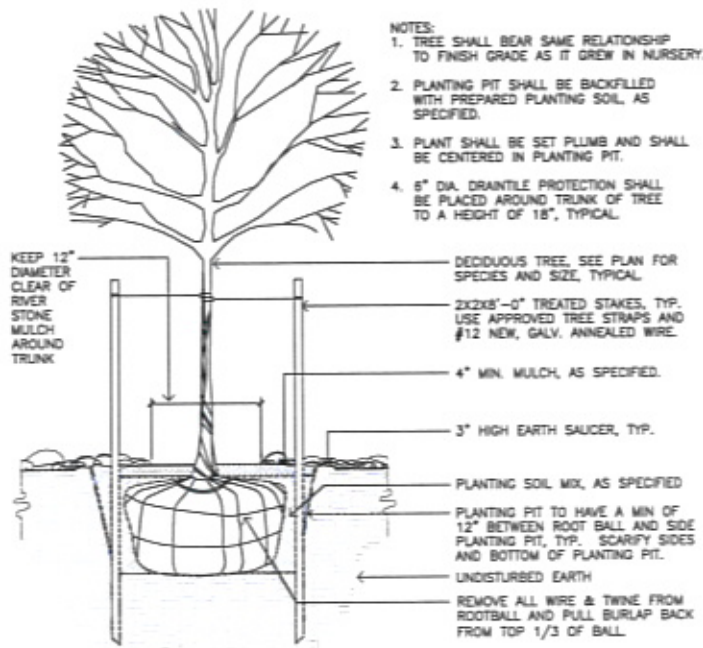
19,754 SF  <b>TYPE 1</b> (BASE BID IS TYPE 2, ALT BID ITEM IS #4 TYPE 1, SOD) (SEE SPEC. SECTION 329400)	3,151 SF  <b>TYPE 4</b> (SEE SPEC. SECTION 329300)	878 SF  <b>TYPE 7</b> (SPEC. SECTION 329400)
31,400 SF  <b>TYPE 2</b> (SEE SPEC. SECTION 329400)	23,938 SF  <b>TYPE 5</b> (SEE SPEC. SECTION 329400)	
3,157 SF  <b>TYPE 3</b> (SEE SPEC. SECTION 329300)	40,341 SF  <b>TYPE 6</b> (SEE SPEC. SECTION 329400)	

**CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES**

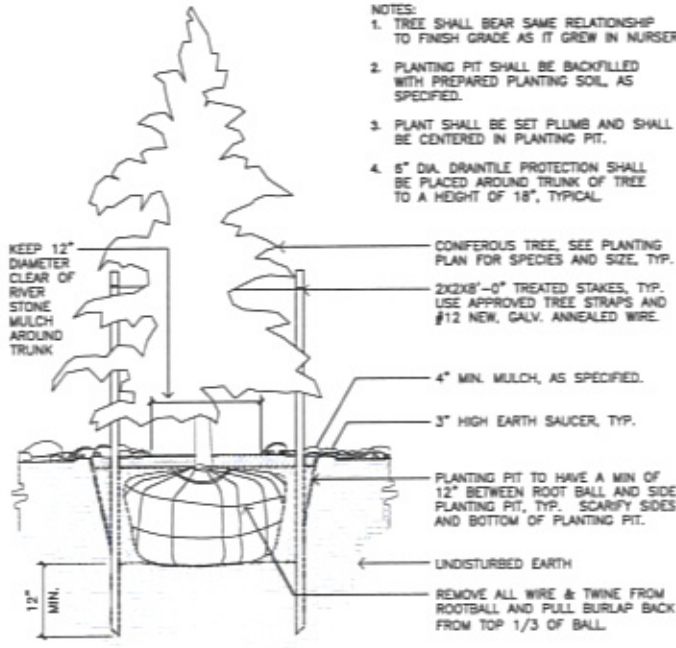
Plans are intended for general information with applicable governmental regulations, stipulations, design notes and engineering standards. The City of Rapid City does not warrant the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering/Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_  
 Consultant: \_\_\_\_\_



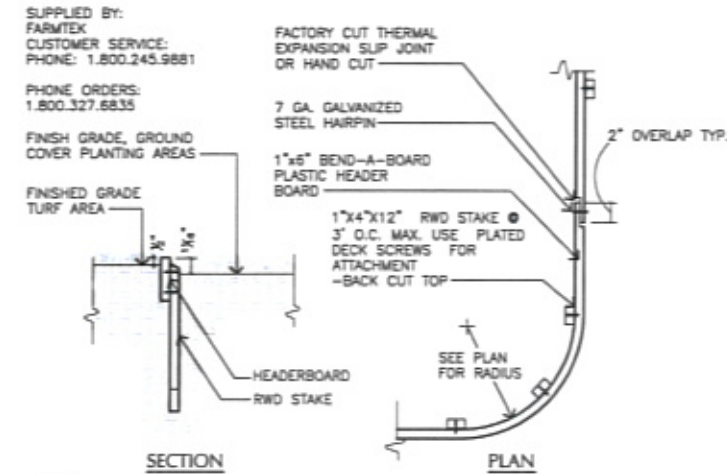


1 SECTION: TYPICAL B&B DECIDUOUS TREE  
NO SCALE

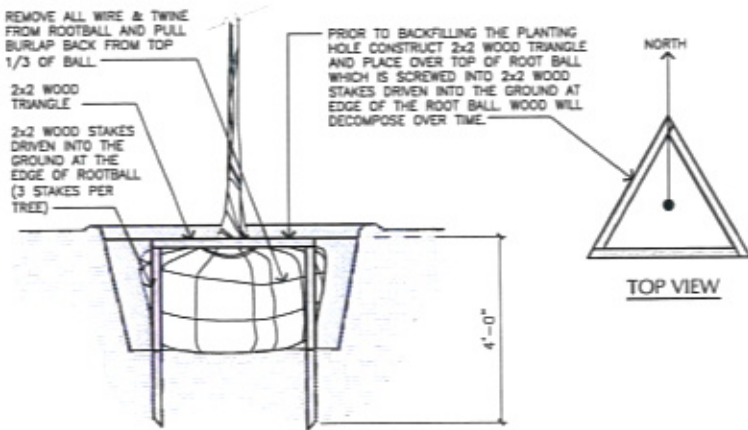


2 SECTION: TYPICAL B&B CONIFEROUS TREE  
NO SCALE

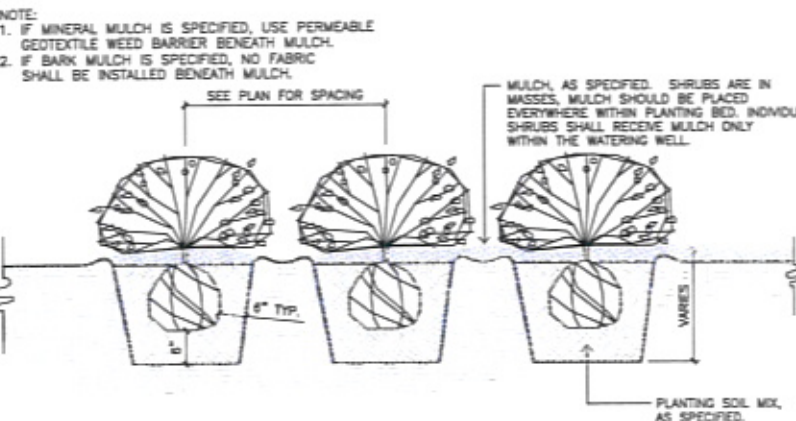
- NOTES:
1. TREE SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT GREW IN NURSERY.
  2. PLANTING PIT SHALL BE BACKFILLED WITH PREPARED PLANTING SOIL, AS SPECIFIED.
  3. PLANT SHALL BE SET PLUMB AND SHALL BE CENTERED IN PLANTING PIT.
  4. 6" DIA. DRANTILE PROTECTION SHALL BE PLACED AROUND TRUNK OF TREE TO A HEIGHT OF 18", TYPICAL.



3 DETAIL: HEADER BOARD  
SCALE: 3" = 1'-0"

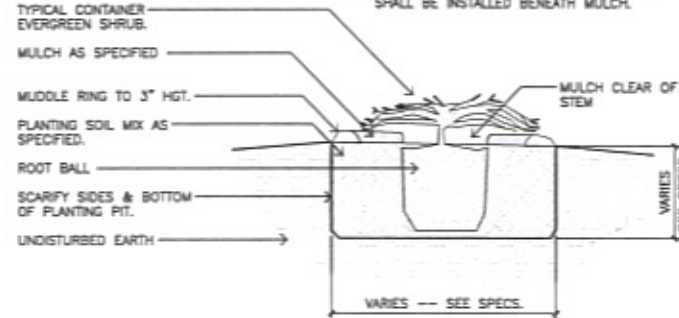


4 DETAIL: UNDERGROUND STABILIZATION OF B&B DECIDUOUS TREE  
SCALE: 1/2" = 1'-0"

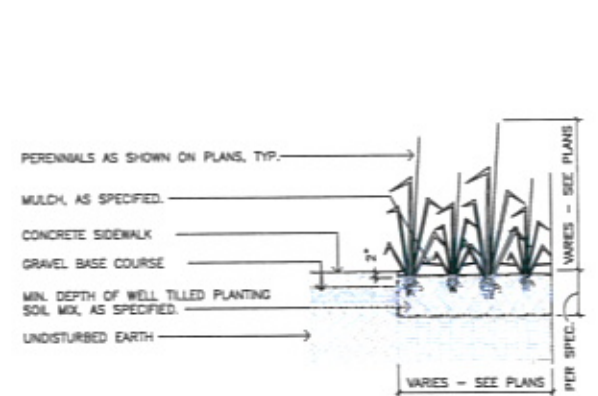


5 SECTION: TYPICAL SHRUB PLANTING BED  
NO SCALE

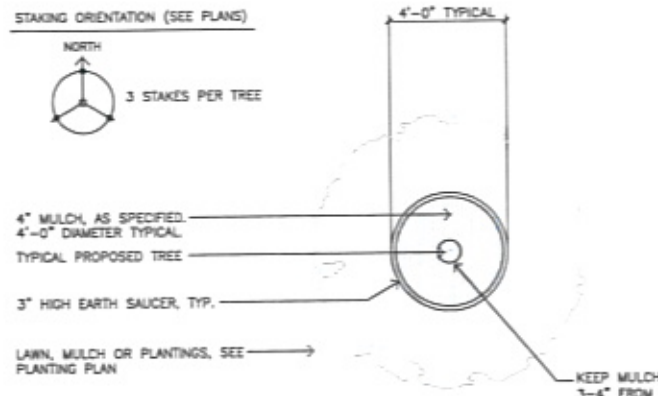
- NOTES:
1. PLACE SPECIFIED MULCH AROUND ALL SHRUBS AT SPECIFIED DEPTH.
  2. WHEN SHRUBS ARE PLACED IN PLANTING BEDS WITH MULTIPLE PLANTS, THE ENTIRE PLANTING BED SHALL RECEIVE MULCH, TYPICAL.
  3. SHRUB PIT SHALL COMPLY WITH WIDTHS AND DEPTHS AS FOUND IN SPECIFICATIONS.
  4. IF MINERAL MULCH IS SPECIFIED, USE GEOTEXTILE WEED BARRIER BENEATH MULCH.
  5. IF BARK MULCH IS SPECIFIED, NO FABRIC SHALL BE INSTALLED BENEATH MULCH.



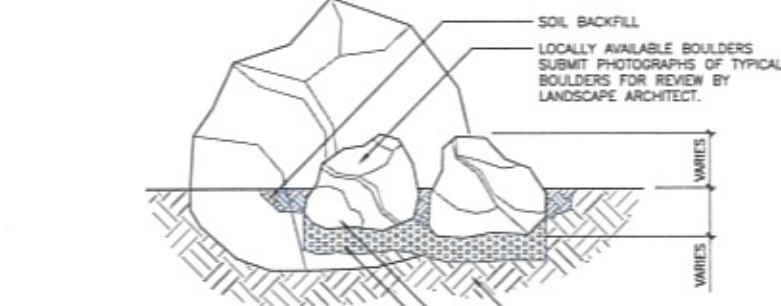
6 SECTION: CONTAINER CONIFEROUS SHRUB  
NO SCALE



7 SECTION: PERENNIAL PLANTING BED DETAIL  
SCALE: 1/2" = 1'-0"



8 PLAN: TYPICAL MULCH RING DETAIL  
SCALE: 1/4" = 1'-0"



- NOTES:
- REFER TO LAYOUT PLAN FOR INFORMATION ON ROCK SIZES AND LOCATIONS.
- ROCKS SHALL NOT BE DUMPED OR DOZED IN TO PLACE BUT BE SET BY CRANE OR SIMILAR MECHANISM, UTILIZING SLINGS OR TONGS. CARE SHOULD BE TAKEN NOT TO DAMAGE EXPOSED SURFACES OF STONES. DAMAGED SURFACES SHALL BE REPAIRED AS APPROVED BY THE OWNER'S REPRESENTATIVE.

9 LANDSCAPE BOULDER PLACEMENT  
SCALE: 1" = 1'-0"

CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES

Plans are reviewed for general conformance with applicable governmental regulations, ordinances, design criteria and engineering standards. The City of Rapid City does not warrant the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Review: \_\_\_\_\_ Date: \_\_\_\_\_  
Comments: \_\_\_\_\_

Prepared For: **PUBLIC WORKS DEPARTMENT**  
City of Rapid City, South Dakota 57111-3070

Prepared By: **Wyss Associates, Inc.**  
Landscape Architecture  
Civil/Structural Architecture  
Parks & Recreation Design  
728 Sixth Street - Rapid City, South Dakota 57111-3070  
Ph: 605.348.2268 - Fax: 605.348.0508  
email: info@wyssassociates.com

DESIGNED BY: MDJ / JHW  
DESIGN DATE: FEB 2010  
INTERNAL JOB NO: 05113.2  
SURVEYED BY: FMG, Inc.  
REVISIONS:

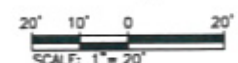
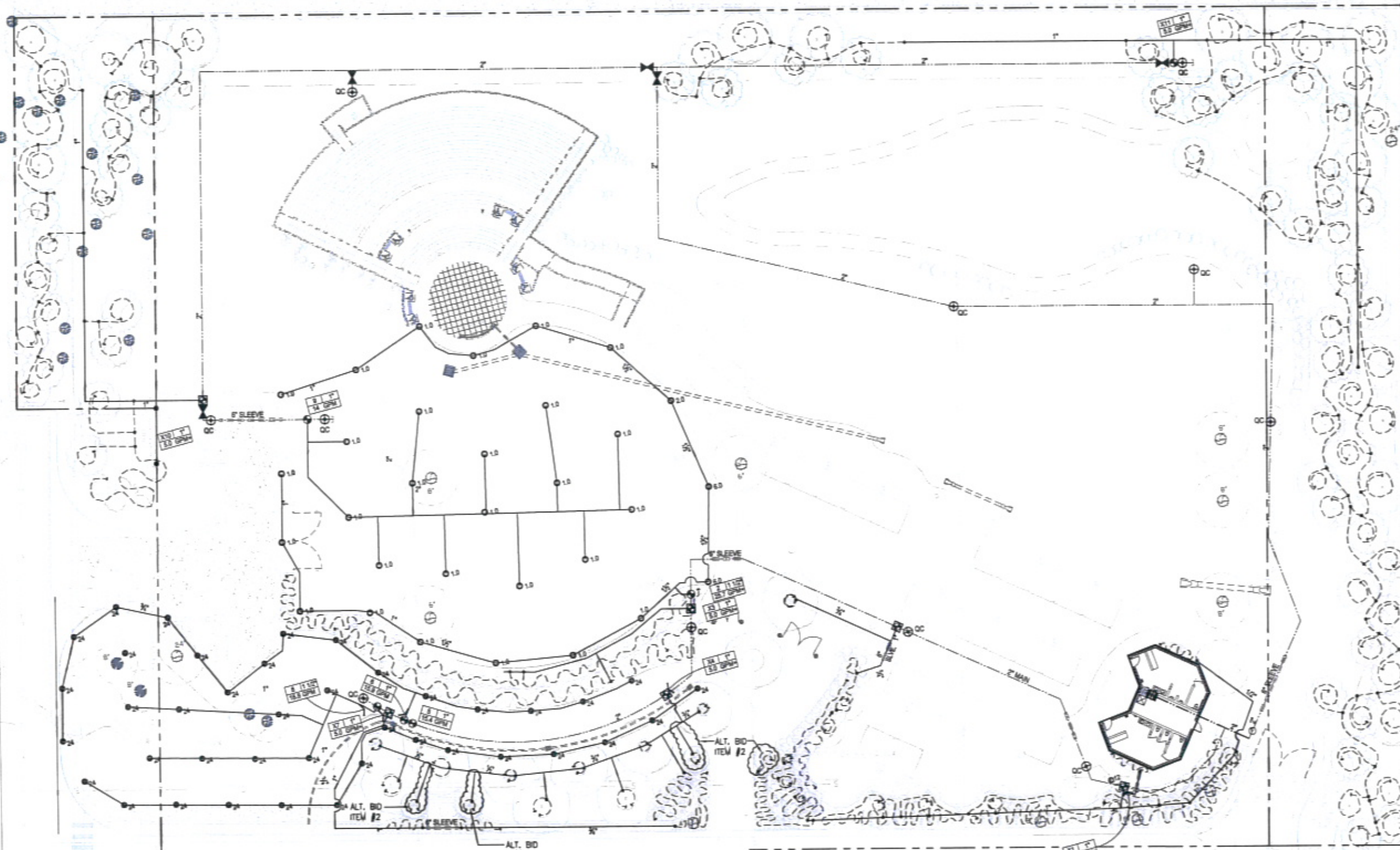
Drawn By: CMW / AKW  
PRINT DATE: 02-26-10  
SURVEY DATE: AUG. 2009

**POWOW GARDENS & ART MARKET**

PROJECT NO. RC09-180600703

Sheet Title: **PLANTING DETAILS**

Sheet: **P-DTL1 of 32**



**KEY TO IRRIGATION PLAN**

- ☒ IRRIGATION CONTROLLER: WALL MOUNT 36 STATION TORO INTELLI-SENSE IRRIGATION CONTROLLER WITH MAINTENANCE REMOTE, INSTALLED IN POWDER COATED STEEL CABINET ENCLOSURE. (WITH FLOW SENSOR) 3 (R-DLI)
- ⊖ FLOW SENSOR: TORO TFS SERIES, MODEL TFS-200 4 (R-DLI)
- ⊕ REMOTE CONTROL VALVE: TORO P220-27-0-(6 OR 8) (SEE ZONE KEYS ON PLAN FOR SIZE) 4 (R-DLI)
- ⊕ REMOTE CONTROL VALVE: TORO P220-27-0-4 PRESSURE REDUCER & FILTER PER DETAIL, OR APPROVED EQUAL 5 (R-DLI)
- ⊕ QUICK COUPLING VALVE: TORO 100-SLSC, OR APPROVED EQUAL 1 (R-DLI)
- ⊕ MANUAL SHUTOFF (ISOLATION) VALVE: BRASS BALL VALVE (SAME SIZE AS LINE) FOR 3" AND LESS 2 (R-DLI)
- IRRIGATION MAIN LINE: 2" - PVC CLASS 200
- LATERALS: 1/2" - CLASS 315 PVC 1/2" - CLASS 315 PVC 3/4" to 1-1/2" - SCH 40 PVC PIPE 2" - CLASS 200 PVC (SIZE PER VALVE & AS NOTED ON PLANS)
- DRIP-TUBING & EMITTERS 5 (R-DLI) 6 (R-DLI)
- ⊕ IRRIGATION ROTOR: TORO MODEL T56XTP55 (SEE PLAN FOR NOZZLE SIZE) X (R-DLI)
- ⊕ IRRIGATION SPRAY HEAD: TORO MODEL 570Z SPRINKLER BODY # 1/2" RISER AND PRECISION SERIES ROTATING NOZZLE (PRN-1-20/24-4/T) (SEE PLAN FOR NOZZLE SPECIFICS) X (R-DLI)
- ⊕ IRRIGATION SPRAY HEAD: TORO MODEL 570Z SPRINKLER BODY # 1/2" RISER AND PRECISION SERIES SPRAY NOZZLE (SEE PLAN FOR NOZZLE SPECIFICS) X (R-DLI)
- SLEEVE: ALL SLEEVES TO BE 6" SCH 40 CLASS 200 MIN.
- ZONE KEY:
  - 15 2" VALVE SIZE DENOTES A DRIP WATER DEMAND IRRIGATION ZONE
  - 24.8 GPM
- IRRIGATION TRENCHING - 1 (R-DLI)

**GENERAL IRRIGATION NOTES**

- GENERAL**
- THIS SYSTEM IS DESIGNED TO OPERATE WITH A STATIC WATER PRESSURE OF 65 PSI AT THE POINT OF CONNECTION. THE CONTRACTOR SHALL VERIFY THE STATIC WATER PRESSURE.
  - CONTRACTOR SHALL REPAIR DAMAGE DONE TO SITE ELEMENTS, DUE TO CONTRACTOR WORK, AT NO ADDITIONAL EXPENSE TO THE OWNER. CONTRACTOR SHALL THOROUGHLY DOCUMENT EXISTING CONDITION OF SITE PRIOR TO COMMENCING WORK AND SUBMIT TO THE OWNER COPIES OF DOCUMENTATION.
  - ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES THAT MAY APPLY.
  - CONTRACTOR SHALL USE FIELD LOCATOR SERVICE TO VERIFY LOCATION OF ALL UNDERGROUND UTILITIES. CONTRACTOR SHALL HAND TRENCH AROUND UNDERGROUND UTILITIES AS REQUIRED BY LOCAL AUTHORITIES.
- LOCATIONS**
- MAINLINE AND LATERAL LINE LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL KEEP LINES OUT OF PAVED AREAS. VALVE LOCATIONS ARE DIAGRAMMATIC. CONTRACTOR SHALL LOCATE BOXES IN PLANTING BEDS WHERE POSSIBLE. FINAL LOCATION FOR IRRIGATION EQUIPMENT MAY VARY SLIGHTLY TO ALLOW FOR ADJUSTMENTS DUE TO GATES, UTILITIES, FENCES, ETC.
  - LOCATE HEADS 4" FROM ADJACENT CURB AND PAVED SURFACES, AND 12" FROM ADJACENT BUILDINGS AND STRUCTURES.
  - SET SPRINKLER HEADS, VALVE BOXES, QUICK COUPLING VALVES AND ALL TURF BOXES TO FINISHED GRADE. CONTRACTOR WILL BE RESPONSIBLE FOR ALL SETTLING DURING WARRANTY PERIOD.
- MATERIALS**
- ALL PIPE AND WIRE CROSSING WALKS AND DRIVES SHALL BE SLEEVED WITH PVC PIPE OF TWICE THE DIAMETER. WIRE SHALL BE IN SEPARATE SLEEVE FROM IRRIGATION PIPE.

- ALL TRENCHES SHALL BE WIDE ENOUGH TO ACCOMMODATE A MINIMUM OF 2" BETWEEN PIPE AND TRENCH WALL. INSTALL WIRES A MIN. OF 18" BELOW GRADE AND LAY TO THE SIDE AND BELOW PIPING. SPLICES WILL NOT BE ALLOWED IN THE TRENCH. PROVIDE AN EXPANSION LOOP AT EACH CHANGE OF DIRECTION OF TRENCH. SNAKE WIRES TO ALLOW FOR EXPANSION. WIRES SHALL BE BUNDLED AT 10' INTERVALS.
  - ALL GASKETED PRESSURE PIPE AND FITTINGS SHALL BE THRUST BLOCKED AS SHOWN ON DETAILS. CONSTRUCT THRUST BLOCKS FROM MIXED CONCRETE, AND PLACE ON UNDISTURBED SOIL.
  - SOVENT WELD ALL PLASTIC PIPE AND FITTINGS USING SOLVENTS AND METHODS AS RECOMMENDED BY THE PRODUCT MANUFACTURERS. ALL THREADED FITTINGS SHALL BE INSTALLED WITH TEFLON TAPE OR AS RECOMMENDED BY MANUFACTURER.
  - PIPE MAY BE ASSEMBLED & WELDED ON THE SURFACE. SNAKE PIPE FROM SIDE TO SIDE OF TRENCH BTM TO ALLOW FOR EXPANSION & CONTRACTION.
  - ALL CONNECTIONS BETWEEN PVC PIPE & METAL SHALL BE THREADED CONNECTIONS WITH THREADED TOE NIPPLES AND 5-80 PVC COUPLINGS. 5-40 MALE ADAPTORS WILL NOT BE ALLOWED.
  - CAP OR PLUG ALL OPENINGS AS SOON AS LINES ARE INSTALLED TO PREVENT ENTRANCE OF FOREIGN MATERIALS.
  - ALL CLAMPS TO BE WORM GEAR SS CLAMPS, DOUBLE CLAMP 1 1/2"
  - CONTRACTOR TO SUPPLY AND INSTALL BALANCED PRECIPITATION NOZZLE KITS IN ALL TURF ROTORS AS MANUFACTURED BY TORO SPRINKLER CORP. (COORDINATE TYPICAL NOZZLE LAYOUT WITH LANDSCAPE ARCHITECT IF NEEDED.)
  - CONTRACTOR SHALL PROVIDE OWNER WITH (4) FOR KEYS FOR IRRIGATION QUICK COUPLERS.
- TESTING AND WRAPUP**

- THOROUGHLY FLUSH ALL LINES PRIOR TO THE OPERATION OF SPRINKLER HEADS & VALVES.
  - IRRIGATION SYSTEMS SHALL BE TESTED BY APPLYING CONTINUOUS STATIC PRESSURE OF 100 PSI AFTER JOINTS HAVE BEEN CURED FOR A MIN. OF 24 HRS. REPAIR ALL LEAKS DETERMINED FROM TEST & RETEST.
  - UPON COMPLETION OF ALL TESTING, COMPLETE ASSEMBLY OF EQUIPMENT AND ADJUST SPRINKLERS TO PROPER DISTRIBUTION.
  - DETAILED AS-BUILT DOCUMENTATION AND SUPPORT DOCUMENTS TO BE PREPARED BY CONTRACTOR AS SPECIFIED.
  - PRECIPITATION SCHEDULING TO BE COORDINATED WITH LANDSCAPE ARCHITECT AND OWNER. CONTRACTOR SHALL PROVIDE A SUGGESTED WATERING SCHEDULE TO OWNER.
  - CONTRACTOR IS RESPONSIBLE FOR CONFIRMING ALL LATERAL LINE SIZING POST-VALVE. PIPE SIZING TO PROVIDE MINIMUM 40 PSI TO SPRAY HEADS AND ROTORS, AND NOT EXCEED 5 FPS VELOCITY. CONTRACTOR TO SUMMIT SHOP DRAWINGS PRIOR TO INSTALLATION FOR REVISION/APPROVAL BY LANDSCAPE ARCHITECT IF MODIFICATIONS EXCEEDING 5% OF SIZES ON PLAN ARE NECESSARY.
  - WATERING TIME SCHEDULES SUGGESTED FROM 11:00 PM UNTIL 5:00 AM, WITH EXCEPTION OF DRIP ZONES.
- TEMPORARY IRRIGATION**
- CONTRACTOR TO PROVIDE ADEQUATE TEMPORARY IRRIGATION OF ALL SEEDED AREAS DISTURBED BY CONSTRUCTION - SEE GRASSING PLAN.

**PRESSURE LOSS TABLE**

70	PSI AT ELEVATION 3219, FH AT NORTH END OF N 2ND ST
65	PSI AT IRRIGATION POINT OF CONNECTION AT ELEV. 3224
2	PSI - WATER METER (PER MANUFACTURER)
12	PSI - BACKFLOW PREVENTER (PER MANUFACTURER)
<1	PSI - FLOW SENSOR (PER MANUFACTURER)
3	PSI - MAINLINE (PER FORMULA)
3-5	PSI - VALVES (PER MANUFACTURER)
3	PSI - ELEVATION CHANGE (CHANGE IN FEET X .433 = PSI)
30	PSI - SPRINKLER MIN. REQUIREMENT (PER MANUFACTURER)
2	PSI - LATERAL PIPES (MAX. IS 20% OF SPRINKLER HEAD PSI ABOVE)

ALL SPRAY HEADS & ROTORS ON THIS DESIGN IS DESIGNED WITH 40 PSI CONSIDERED TO BE AT THE SPRINKLER

CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES

Plans are reviewed for general conformance with applicable governmental regulations, standards, design criteria and engineering standards. The City of Rapid City does not verify the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

Public Works  
CITY OF RAPID CITY  
Department

Prepared For: **Wyss Associates, Inc.**  
Landscape Architecture  
Golf Course Architecture  
Parks & Recreation Design  
728 Sixth Street - Rapid City, South Dakota 57701-3870  
Ph: 605.348.2266 Fax: 605.348.6506  
email: info@wyssassociates.com

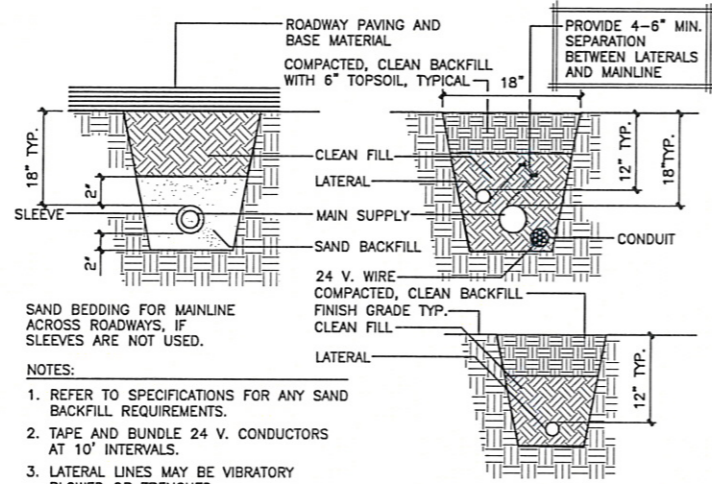
DESIGNED BY: MCF / PHW  
DRAWN BY: CMW / AKW  
DESIGN DATE: FEB. 2010  
PRINT DATE: 02-26-10  
INTERNAL JOB NO: 05113.2  
SURVEYED BY: FMG, Inc.  
SURVEY DATE: AUG. 2009

PROJECT NO. RC09-1850505703

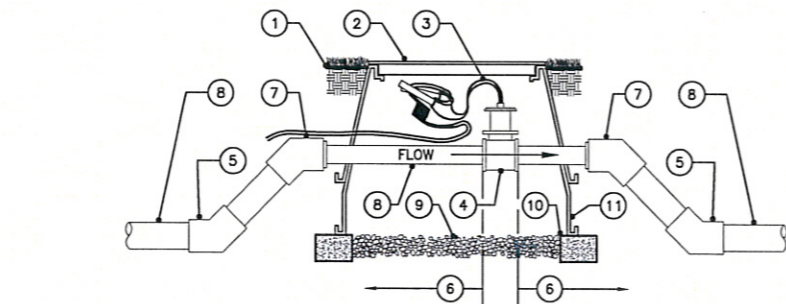
Sheet Title: **POWOW GARDENS & ART MARKET**

Sheet: **IRRIGATION PLAN**

Sheet: **IR1 of 32**

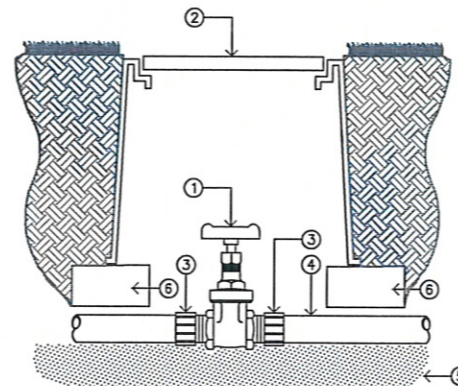


**1** TRENCHING DETAIL  
IRDTL1 NOT TO SCALE

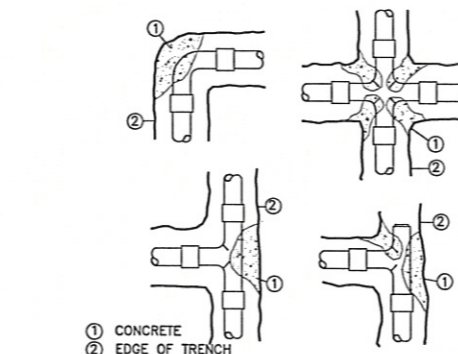


**4** FLOW SENSOR  
IRDTL1 SCALE: NOT TO SCALE

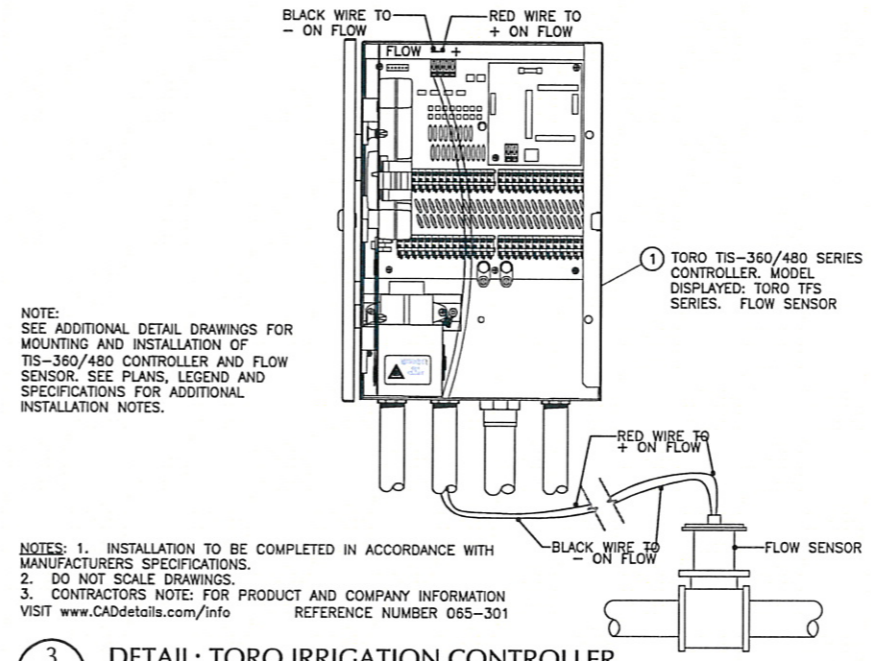
NOTES:  
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.  
2. DO NOT SCALE DRAWINGS.



**2** ISOLATION VALVE DETAIL  
IRDTL1 NOT TO SCALE



**5** MAINLINE 2" AND LARGER  
IRDTL1 NOT TO SCALE

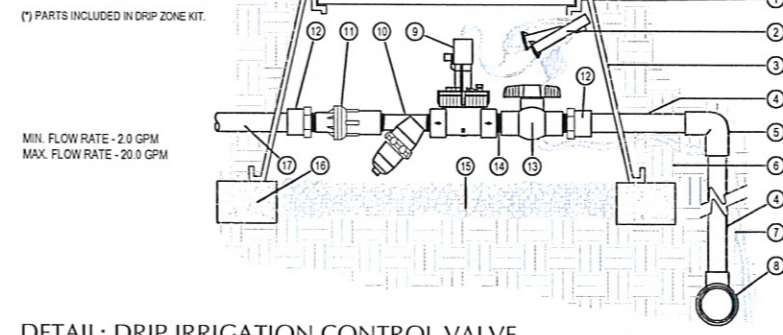


**3** DETAIL: TORO IRRIGATION CONTROLLER  
IRDTL1 SCALE: 3" = 1'-0"

NOTE:  
SEE ADDITIONAL DETAIL DRAWINGS FOR MOUNTING AND INSTALLATION OF TIS-360/480 CONTROLLER AND FLOW SENSOR. SEE PLANS, LEGEND AND SPECIFICATIONS FOR ADDITIONAL INSTALLATION NOTES.

NOTES:  
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.  
2. DO NOT SCALE DRAWINGS.  
3. CONTRACTORS NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) REFERENCE NUMBER 065-301

- FINISH GRADE.
- CONTROL WIRES WITH 36" SERVICE COIL AND WATER PROOF WIRE CONNECTIONS, DBY OR EQUAL.
- RECTANGULAR PLASTIC VALVE BOX. HEAT BRAND STATION NUMBER ON LID IN 2" HIGH CHARACTERS.
- PVC MAINLINE PER SPECIFICATIONS (LENGTH AS REQUIRED).
- SCH 40 PVC ELL (5x6).
- NATIVE SOIL PER SPECIFICATIONS.
- CONTROL WIRES TO CONTROLLER.
- PVC MAINLINE FITTING.
- TORO EZF-25-04 INLINE VALVE (\*)
- TORO 150 MESH Y-FILTER (\*)
- TORO 25 PSI LOW FLOW PRESSURE REGULATOR (\*)
- SCH 40 PVC MALE ADAPTER.
- SCH 40 PVC BALL VALVE (\*)
- SCH 80 PVC CLOSE NIPPLE (\*)
- PEA GRAVEL SUMP, MINIMUM 6" DEEP.
- BRICK SUPPORTS (4 COMMON BRICKS REQUIRED).
- LATERAL LINE TO DRIP SYSTEM.



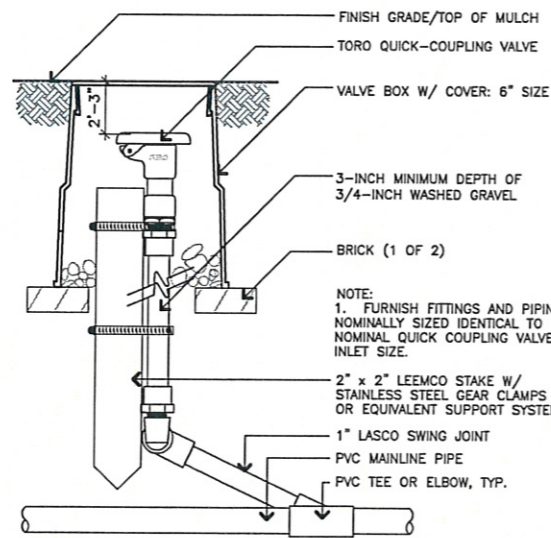
**6** DETAIL: DRIP IRRIGATION CONTROL VALVE  
IRDTL1 NOT TO SCALE

**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

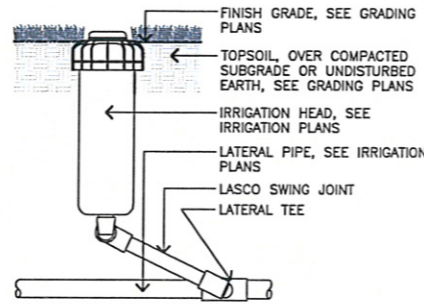
Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

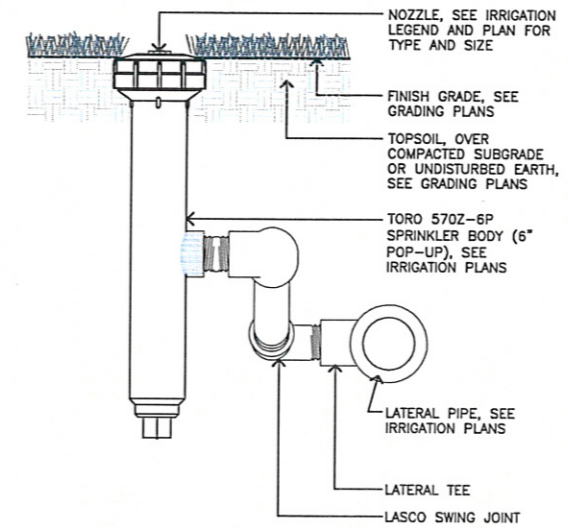
COMMENTS:



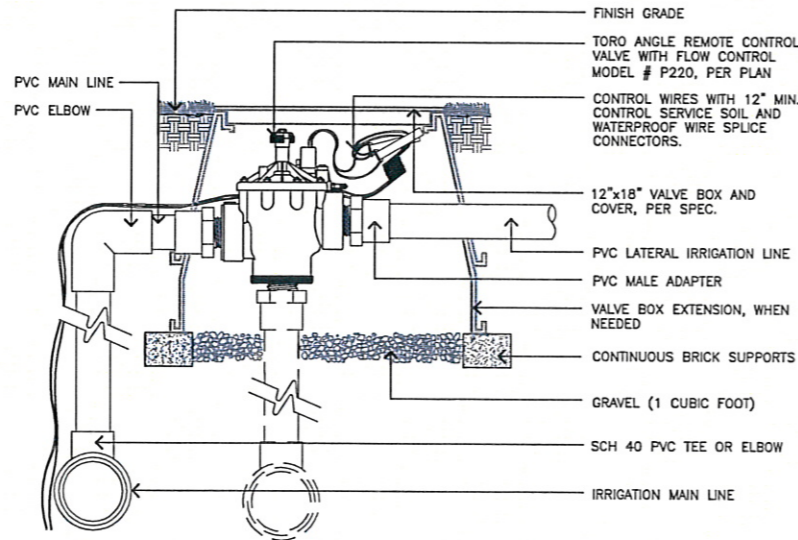
1 DETAIL: QUICK COUPLING VALVE  
SCALE: 3" = 1'-0"



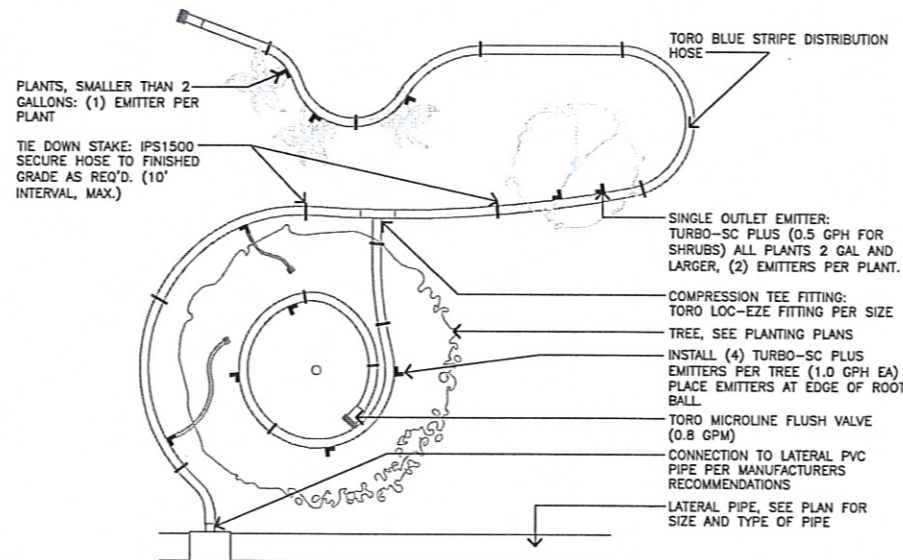
2 DETAIL: TORO TR50XT TURF ROTOR  
SCALE: 3" = 1'-0"



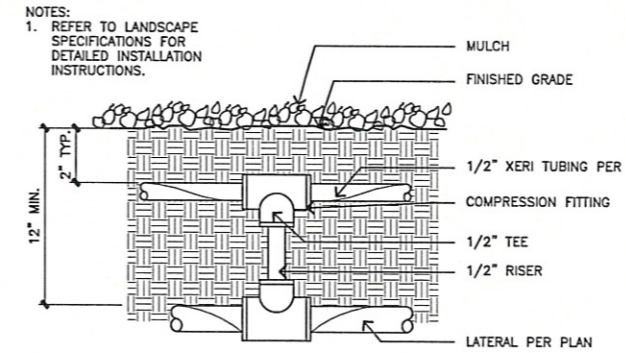
3 DETAIL: TORO 570Z 6" RISER  
SCALE: 3" = 1'-0"



4 SECTION: TORO PLASTIC VALVE P-220 SERIES (ELECTRIC)  
SCALE: 1 1/2" = 1'-0"



5 PLAN: TYPICAL MICRO IRRIGATION INSTALLATION LAYOUT  
SCALE: 1" = 1'-0"



6 DRIP TUBING CONNECTION  
NOT TO SCALE



Prepared For:  
Public Works  
CITY OF RAPID CITY  
Department

Prepared By:  
**Wyss Associates, Inc.**  
Landscape Architecture  
Golf Course Architecture  
Parks & Recreation Design  
728 Sixth Street - Rapid City, South Dakota 57701-3870  
Ph. 605.348.2268 Fax 605.348.8506  
email: info@wyssassociates.com



Designed By: MDF / PHW	Drawn By: CMW / AKW
Design Date: FEB. 2010	Print Date: 02-26-10
Internal Job No: 05113.2	Survey Date: AUG, 2009
Surveyed By: FMG, Inc.	Revisions:

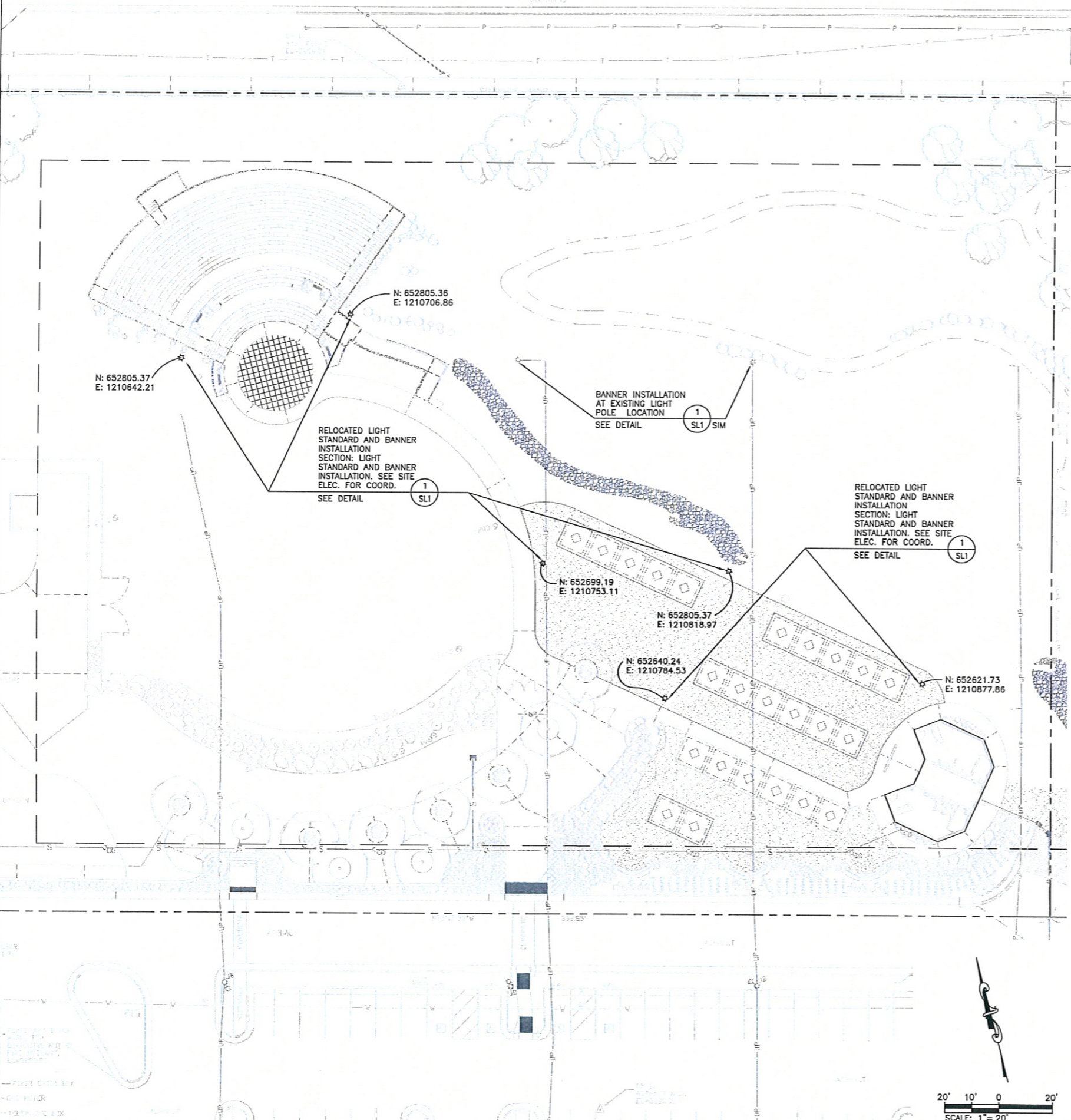
**POWOW GARDENS & ART MARKET**

PROJECT NO. RC09-165060793  
Sheet Title:  
IRRIGATION DETAILS  
Sheet:  
**IR-DTL2 of 32**

**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

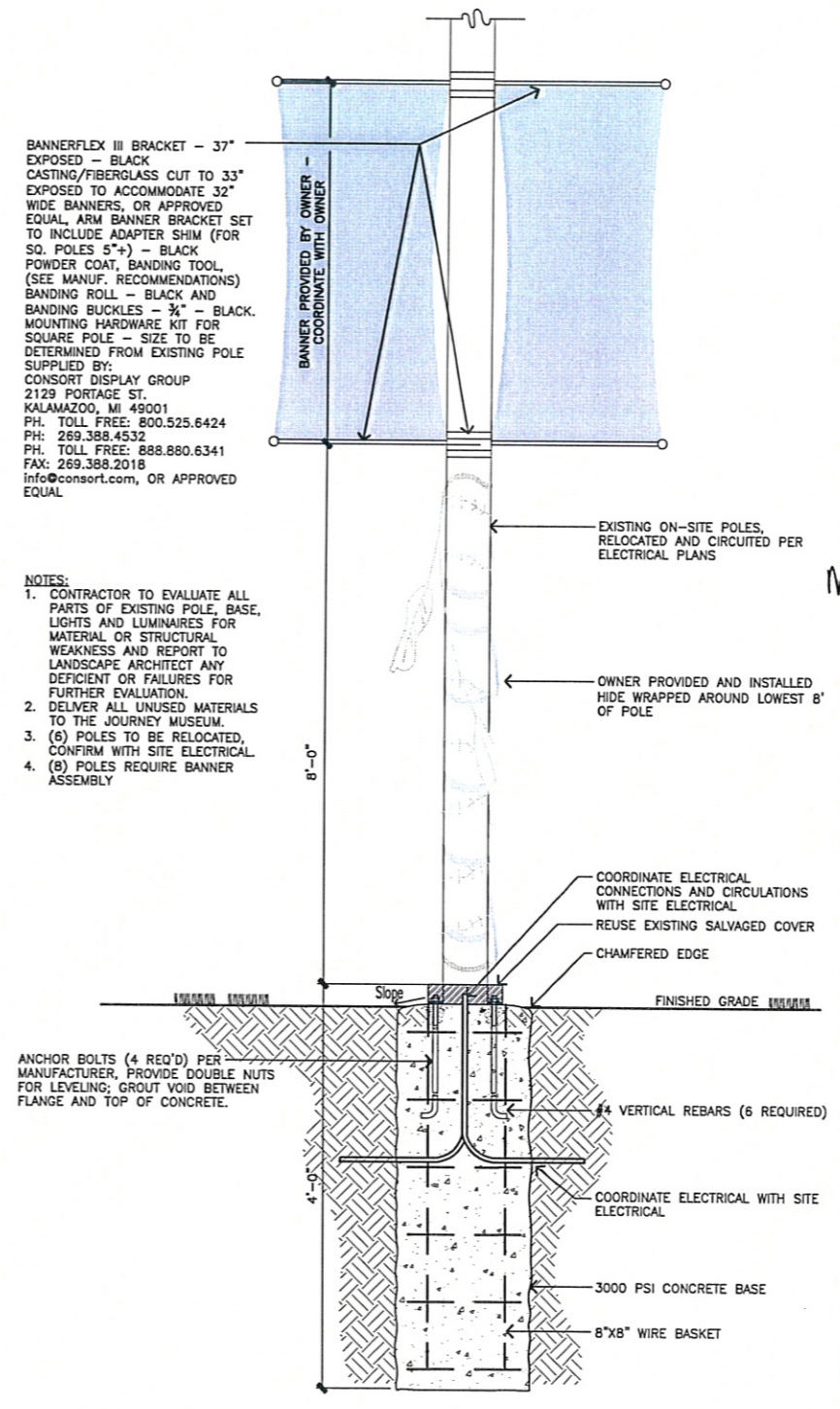
Plans are reviewed for general conformance with applicable governmental regulations, specifications, design criteria and engineering standards. The City of Rapid City does not warrant the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer \_\_\_\_\_ Date \_\_\_\_\_  
COMMENTS \_\_\_\_\_



BANNERFLEX III BRACKET - 37" EXPOSED - BLACK CASTING/FIBERGLASS CUT TO 33" EXPOSED TO ACCOMMODATE 32" WIDE BANNERS, OR APPROVED EQUAL, ARM BANNER BRACKET SET TO INCLUDE ADAPTER SHIM (FOR SQ. POLES 5"+) - BLACK POWDER COAT, BANDING TOOL (SEE MANUF. RECOMMENDATIONS) BANDING ROLL - BLACK AND BANDING BUCKLES - 3/4" - BLACK. MOUNTING HARDWARE KIT FOR SQUARE POLE - SIZE TO BE DETERMINED FROM EXISTING POLE SUPPLIED BY: CONSORT DISPLAY GROUP 2129 PORTAGE ST. KALAMAZOO, MI 49001 PH. TOLL FREE: 800.525.6424 PH: 269.388.4532 PH. TOLL FREE: 888.880.6341 FAX: 269.388.2018 info@consort.com, OR APPROVED EQUAL

- NOTES:
1. CONTRACTOR TO EVALUATE ALL PARTS OF EXISTING POLE, BASE, LIGHTS AND LUMINAIRES FOR MATERIAL OR STRUCTURAL WEAKNESS AND REPORT TO LANDSCAPE ARCHITECT ANY DEFICIENT OR FAILURES FOR FURTHER EVALUATION.
  2. DELIVER ALL UNUSED MATERIALS TO THE JOURNEY MUSEUM.
  3. (6) POLES TO BE RELOCATED, CONFIRM WITH SITE ELECTRICAL.
  4. (8) POLES REQUIRE BANNER ASSEMBLY



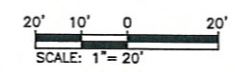
1 SL1 SECTION: LIGHT STANDARD AND BANNER INSTALLATION SCALE: 1 1/2" = 1'-0"

CITY OF RAPID CITY GROWTH MANAGEMENT DEPT. DEVELOPMENT SERVICES

Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_

COMMENTS



Prepared For: Public Works Department

Wyss Associates, Inc.  
Landscape Architecture  
Golf Course Architecture  
Parks & Recreation Design

728 Sixth Street - Rapid City, South Dakota 57701-3870  
Ph: 605.346.2268 Fax: 605.346.6506  
email: info@wyssassociates.com

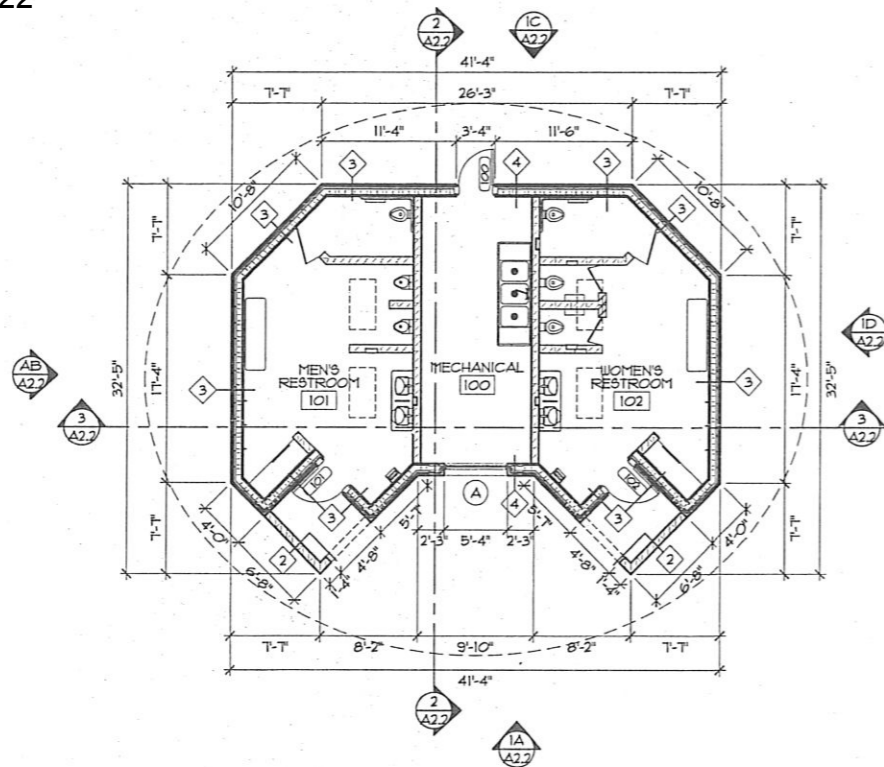


Designed By: MDF / PHW Drawn By: CMW / AKW  
Design Date: FEB, 2010 Print Date: 02-26-10  
Internal Job No: 051132  
Surveyed By: FMG, Inc. Survey Date: AUG, 2009  
Revisions:

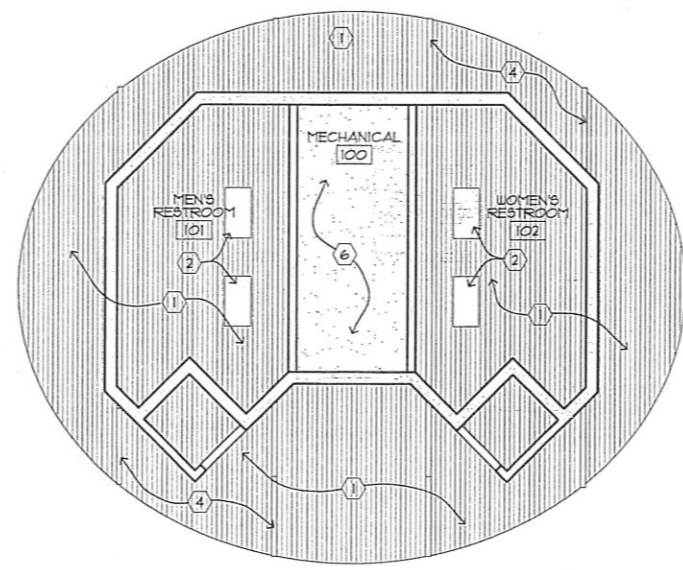
POWOW GARDENS & ART MARKET

PROJECT NO. RC09-18560793

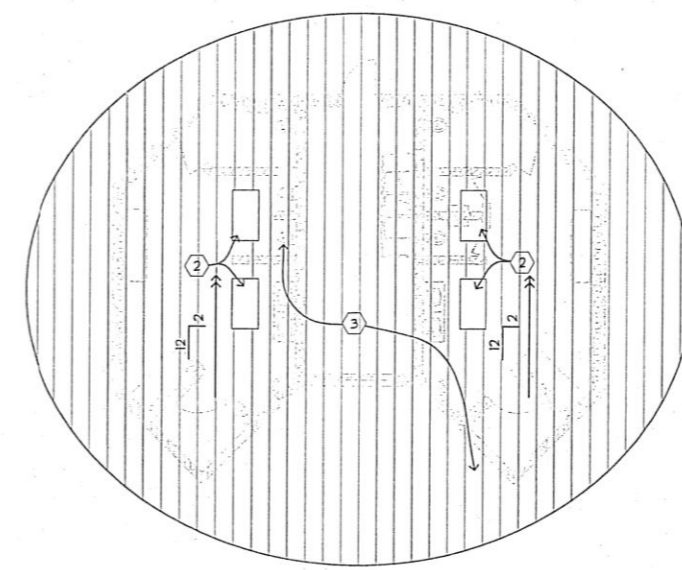




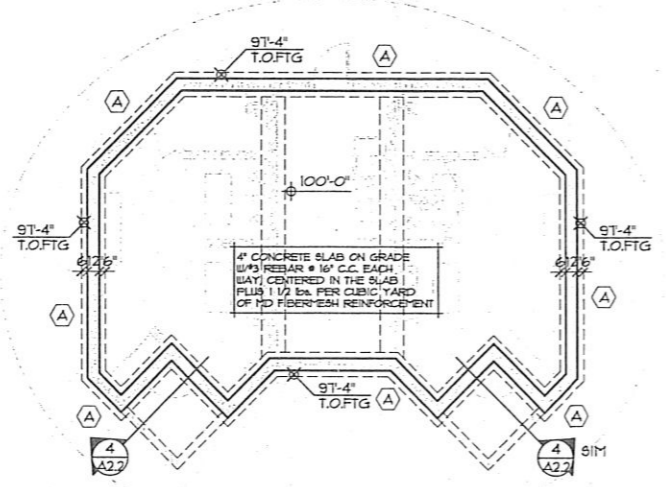
**2 RESTROOM FLOOR PLAN**  
 A2.1 1/8"=1'-0"  
 PLAN NORTH ACTUAL NORTH



**3 REFLECTED CEILING PLAN**  
 A2.1 1/8"=1'-0"



**4 ROOF PLAN**  
 A2.1 1/8"=1'-0"

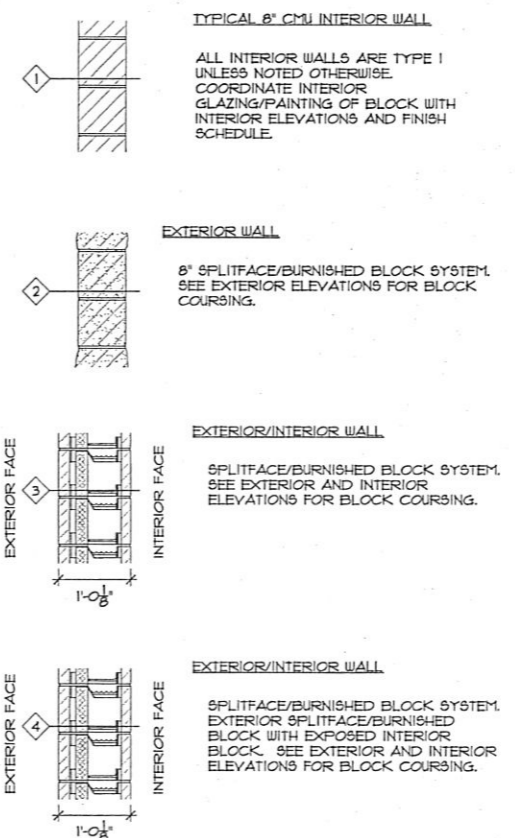


**1 FOUNDATION PLAN**  
 A2.1 1/8"=1'-0"

FOOTING SCHEDULE		
MARK	SIZE W x L x D	REINFORCING
A	2'-0" x CONTINUOUS x 1'-0"	(3) #5 CONTINUOUS (W/CORNERS)

- KEY NOTES:**
- 1 3/4" TONGUE AND GROOVE DECKING
  - 2 2'-2" x 4'-2" FRISBIC SKYLIGHTS - TYPICAL OF 4
  - 3 METAL ROOF WITH 40 MIL 1 CF/WATER SHIELD UNDERLAYMENT.
  - 4 GLU LAM STRUCTURE
  - 5 GUTTER/DOWNSPOUTS, PROVIDE DOWNSPOUTS AS REQUIRED. COORDINATE DOWNSPOUTS LOCATION WITH LANDSCAPE DRAINAGE PLAN
  - 6 GYPBD CEILING ATTACHED TO STRUCTURE ABOVE

- GENERAL NOTES:**
- 1) COORDINATE LOCATION OF ALL MECHANICAL AND ELECTRICAL EQUIPMENT WITH MECHANICAL ELECTRICAL DRAWINGS
  - 2) STAIN AND SEAL ALL EXPOSED WOOD STRUCTURE AND DECKING. COLOR TO BE DETERMINED.



**5 WALL TYPES**  
 A2.1 3/4"=1'-0"

Prepared By:

**PRELIMINARY**  
Not for  
Construction

Designed By:	Drawn By:
Design Date: FEB, 2010	Print Date: XX-XX-XX
Internal Job No: WPE#R09061	Survey Date:
Surveyed By: FMG, Inc.	AUG, 2009
Revisions:	

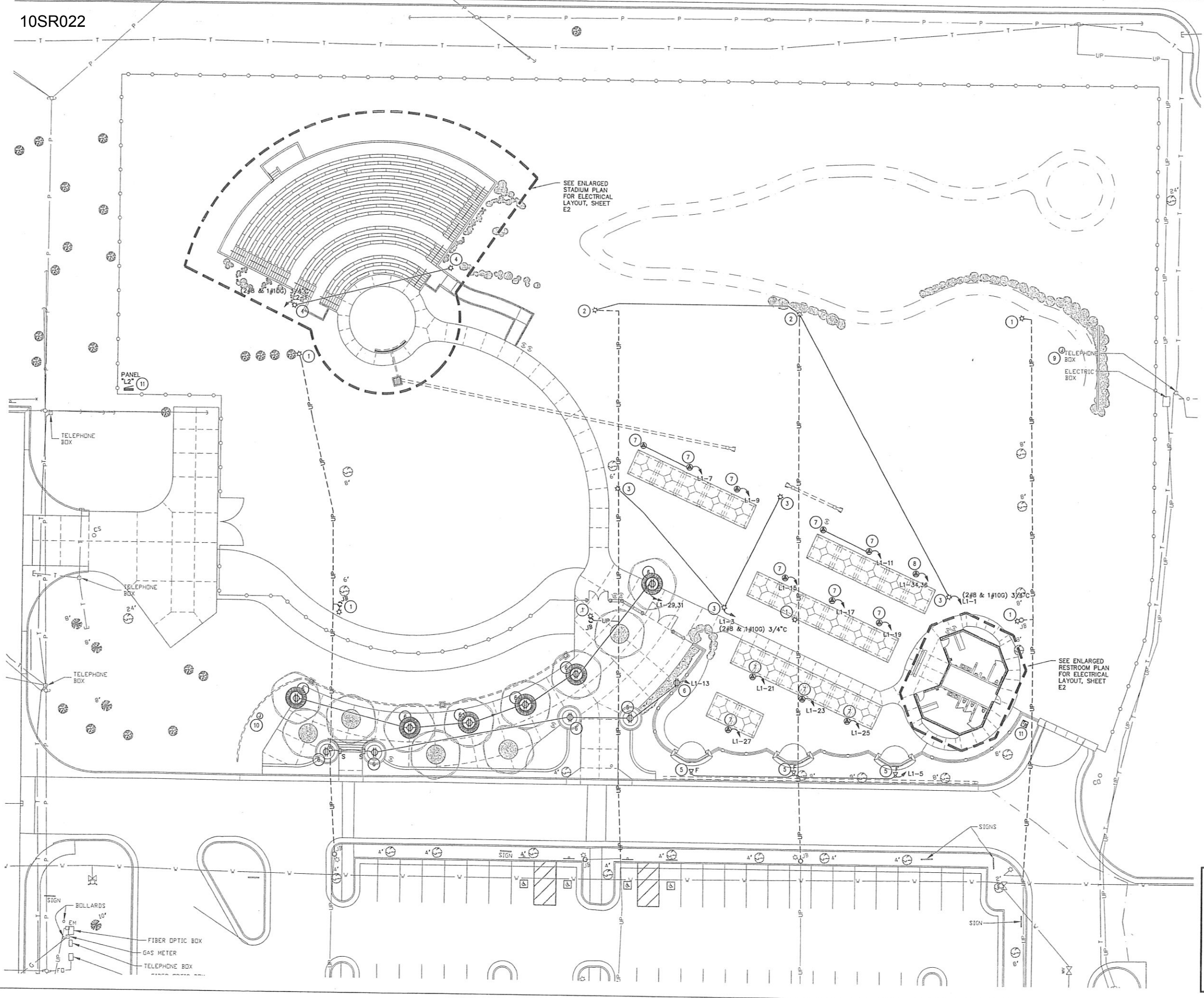
**POWOW GARDENS &  
ART MARKET**

PROJECT NO. R008-1850/50793

Sheet Title:  
**ELECTRICAL  
SITE PLAN**

Sheet:  
**E1 of XX**

- MISCELLANEOUS ELECTRICAL NOTES:
- CONTRACTOR TO DEMO ALL CIRCUITRY FOR THE PARKING LOT LIGHTING CURRENTLY LOCATED WITHIN THE PROJECT BOUNDARY SOUTH ACROSS THE ROAD AS SHOWN ON DRAWING. THIS SHALL RESULT IN 4 ROWS OF 2 LIGHT POLES BEING DISCONNECTED FROM THE EXISTING CIRCUITS FOR A TOTAL OF 8 POLES. REUSE POLES AS INDICATED ON DRAWING.
  - ALL SITE POWER 20A/1P CIRCUITS TO BE MINIMUM (2#10 & 1#10G) 3/4" PVC SCHEDULE 40.
- SPECIFIC ELECTRICAL NOTES: (I)
- EXISTING PARKING LOT POLE LIGHT TO BE REMOVED AND REUSED IN LOCATIONS SHOWN ON PLANS.
  - EXISTING PARKING LOT POLE LIGHT TO REMAIN IN SAME LOCATION BUT BE DISCONNECTED FROM EXISTING SERVICE. CONNECT TO NEW CIRCUIT L1-1 AS SHOWN ON PLAN.
  - NEW LOCATION FOR RELOCATED POLE LIGHT. CONNECT TO PANEL L1 CIRCUIT THROUGH CONTACTOR AS SHOWN. SEE EXTERIOR LIGHTING CONTROL DIAGRAM FOR MORE DETAIL.
  - NEW LOCATION FOR RELOCATED POLE LIGHT. CONNECT TO PANEL L2 CIRCUIT THROUGH CONTACTOR AS SHOWN. SEE EXTERIOR LIGHTING CONTROL DIAGRAM FOR MORE DETAIL.
  - FLOOD LIGHTING TO ILLUMINATE THE WALL ART ON THE EXTERIOR FENCE. SEE FLOOD LIGHTING DETAIL FOR MOUNTING OFFSET HEIGHT.
  - DUPLEX RECEPTACLE TO BE PEDESTAL MOUNTED IN PLANTING BED, REFER TO WP RECEPTACLE DETAIL.
  - LOCATION OF PAD MOUNT 20A RECEPTACLE/DATA PEDESTALS. PEDESTALS SHOULD CONTAIN (2) SETS OF RECEPTACLES/DATA JACKS MOUNTED BACK TO BACK, SO AS TO PROVIDE DOUBLE DUPLEX POWER AND DATA CONNECTIONS FOR TWO VENDORS. PEDESTALS TO BE REMOVABLE. PROVIDE AN EXTRA JUNCTION BOX COVER FOR WHEN REMOVED. REFER TO PEDESTAL AND PEDESTAL HANDHOLE DETAILS FOR INFORMATION. PROVIDE 3/4" C TO RESTROOM ELECTRICAL ROOM.
  - LOCATION OF PAD MOUNT 50A RECEPTACLE/DATA PEDESTALS. PEDESTALS SHOULD CONTAIN (2) SETS OF RECEPTACLES/DATA JACKS MOUNTED BACK TO BACK, SO AS TO PROVIDE DOUBLE DUPLEX POWER AND DATA CONNECTIONS FOR TWO VENDORS. PEDESTALS TO BE REMOVABLE. PROVIDE AN EXTRA JUNCTION BOX COVER FOR WHEN REMOVED. REFER TO PEDESTAL AND PEDESTAL HANDHOLE DETAILS FOR INFORMATION. PROVIDE 3/4" C TO RESTROOM ELECTRICAL ROOM.
  - CONTRACTOR TO RUN 1-3/4" C & 1-#10 PULL WIRE TO JUNCTION BOX FOR FUTURE LIVING PRAIRIE POWER AND LIGHTING TO PANEL L1.
  - CONTRACTOR TO RUN 1-3/4" C & 1-#10 PULL WIRE TO JUNCTION BOX FOR FUTURE FRONT PLAZA POWER AND LIGHTING TO PANEL L2.
  - LOCATION OF ELECTRICAL EQUIPMENT, SEE ONE LINE DIAGRAM FOR MORE INFORMATION ON MOUNTING AND SIZING. PROVIDE TRENCHING FOR UTILITY PRIMARY. COORDINATE LOCATION WITH BHP.



**ELECTRICAL SITE PLAN**  
SCALE: 1" = 20'-0"

**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

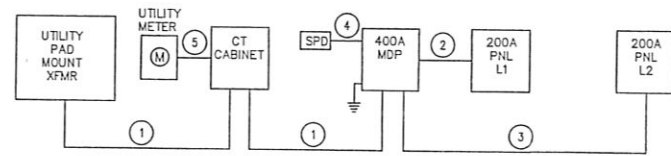
Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer \_\_\_\_\_ Date \_\_\_\_\_

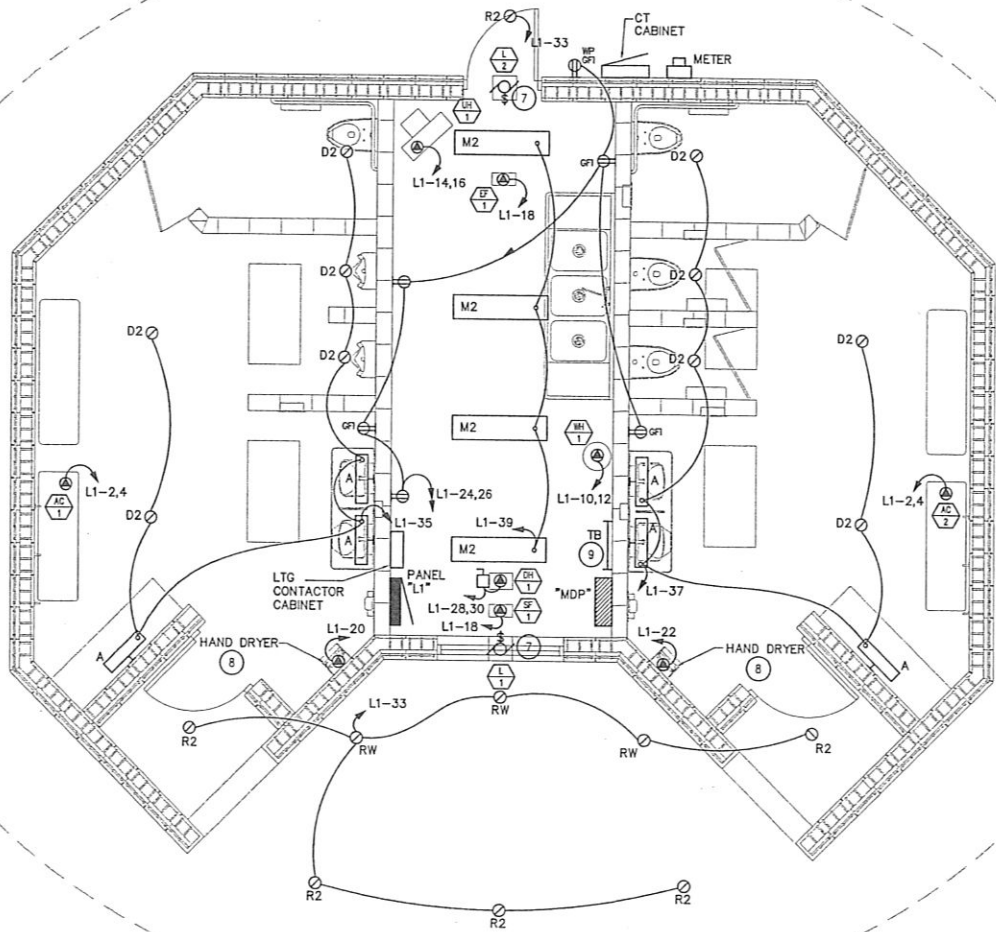
COMMENTS \_\_\_\_\_

FEEDER SIZES: (#)

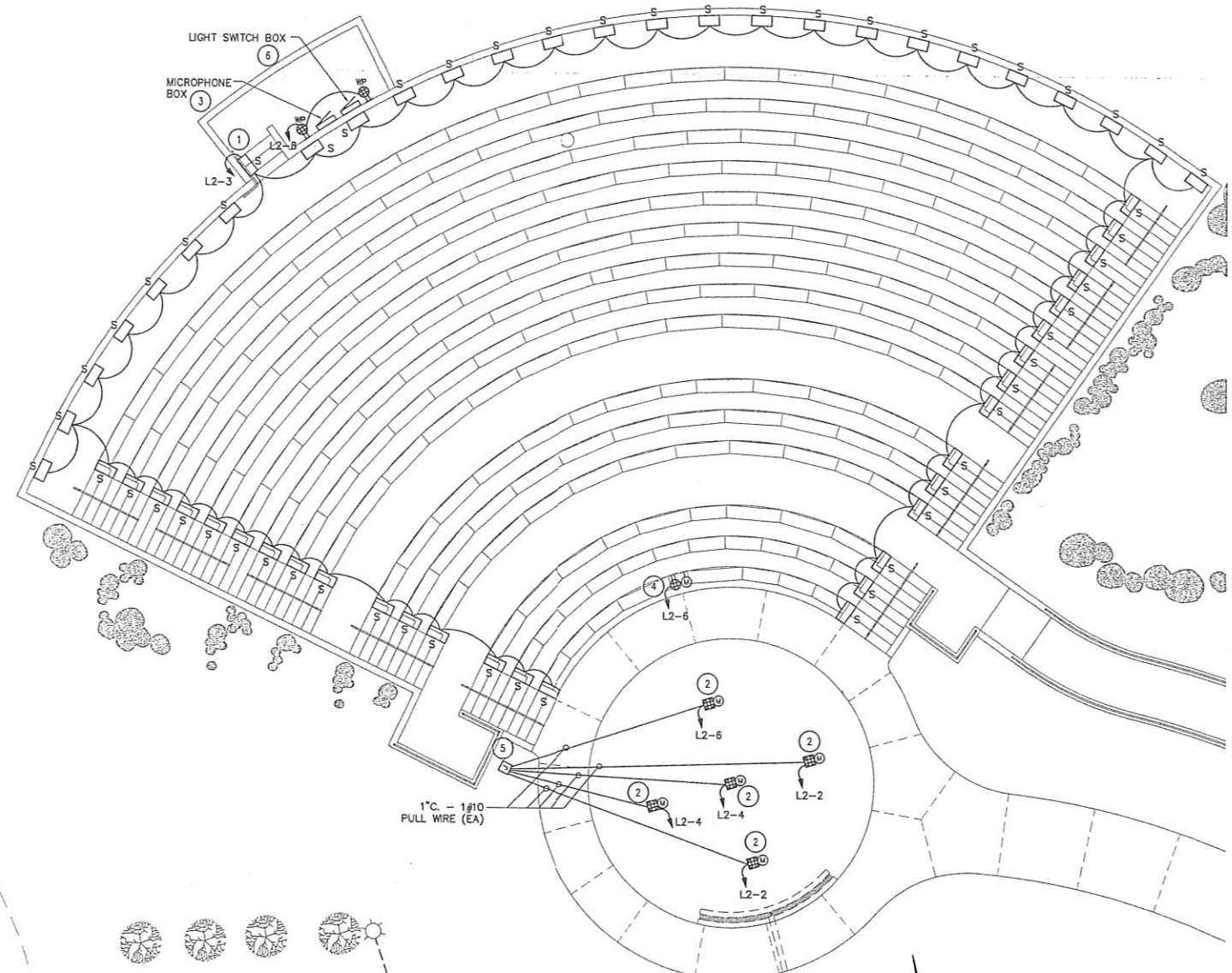
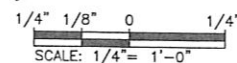
1. 2 1/2" C. - 2 SETS(4#3/0)
2. 2 1/2" C. - 4#3/0 & 1#6G
3. 2 1/2" C. - 4#3/0 & 1#6G
4. 1 1/2" C. - 5#2
5. 3/4" C.



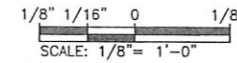
ONE-LINE DIAGRAM  
NO SCALE



ENLARGED ELECTRICAL RESTROOM PLAN  
SCALE: 1/4" = 1'-0"



ENLARGED ELECTRICAL STADIUM PLAN  
SCALE: 1/8" = 1'-0"



MISCELLANEOUS ELECTRICAL NOTES:

A. -

SPECIFIC ELECTRICAL NOTES: (#)

1. CONNECT STEP LIGHTING TO PANEL L2 THROUGH CONTACTOR AS SHOWN. SEE EXTERIOR LIGHTING CONTROL DIAGRAM FOR MORE DETAIL.
2. DOUBLE DUPLEX AND MICROPHONE SYMBOLS INDICATE A STAGE MICROPHONE AND RECEPTACLE BOX. COORDINATE LOCATION OF THESE BOXES WITH THE LANDSCAPE ARCHITECT. SEE THE STAGE MICROPHONE AND RECEPTACLE BOX DETAIL FOR MORE INFORMATION.
3. WEATHERPROOF LOCKABLE WALL BOX CONTAINING THE MALE ENDS OF THE 3 PIN XLR MICROPHONE LINES. EACH FEMALE MICROPHONE JACK FROM THE STAGE TO BE CONNECTED TO THIS LOCATION AND A MALE MICROPHONE JACK PROVIDED FOR EACH. (6) TOTAL. SEE THE STAGE MICROPHONE AND RECEPTACLE BOX DETAIL FOR ADDITIONAL INFORMATION.
4. WALL MOUNT A DOUBLE DUPLEX AND FEMALE MICROPHONE JACK IN THE OPENING BETWEEN THE SEATS. MICROPHONE JACK TO CONNECT TO MICROPHONE BOX LOCATED IN THE SOUND CONTROL ROOM.
5. LOCATION OF THE OFF-STAGE CONDUIT JUNCTION BOX. SEE THE DETAIL OF THE SAME NAME FOR MORE INFORMATION.
6. WEATHERPROOF LOCKABLE WALL BOX CONTAINING (2) TOGGLE SWITCHES. TOGGLE SWITCHES TO CONTROL THE POLE LIGHTING CIRCUIT IN THIS AREA AND THE STADIUM STEP LIGHTING CIRCUIT, BOTH CONNECT TO PANEL L2.
7. PROVIDE 120V TO MOTORIZED LOUVER FROM L1-32. INTERLOCK WITH SF-1 & EF-1.
8. HAND DRYER DYSON AIRBLADE, 120V.
9. PROVIDE 2" C. FROM NEAREST COMMUNICATIONS PEDESTAL FOR SERVICE. PROVIDE 3'X3' PAINTED PLYWOOD FOR TELEPHONE TERMINAL BOARD.

CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES

Pans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer \_\_\_\_\_ Date \_\_\_\_\_  
COMMENTS \_\_\_\_\_

**WPE** WEST PLAINS ENGINEERING, INC.  
1750 RAND ROAD • RAPID CITY, SD 57702  
PHONE: (605) 349-9445  
FAX: (605) 349-9446  
RAPID CITY, SD • BROWN FALLS, SD • CARROLL, IA • CEDAR RAPIDS, IA

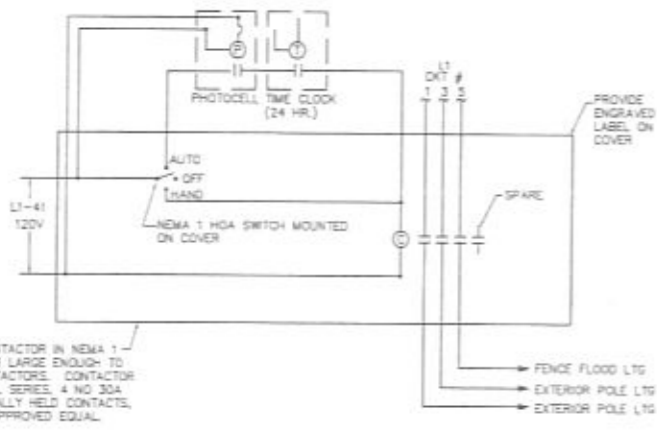
Prepared By:

**PRELIMINARY**  
Not for  
Construction

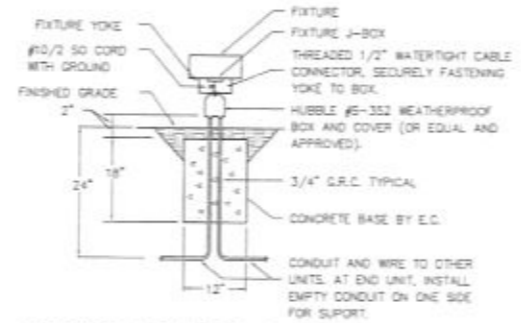
Designed By:	Drawn By:
Design Date: FEB, 2010	Print Date: xxx-xxx-xx
Internal Job No: WPE#R09061	Survey Date: AUG, 2009
Surveyed By: FMG, Inc.	Revisions:

POWOW GARDENS &  
ART MARKET

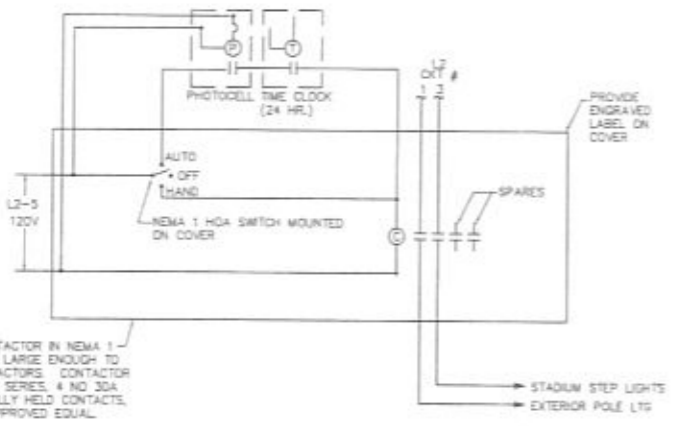
Sheet Title:  
ENLARGED  
ELECTRICAL  
PLANS



ONE 4-POLE CONTACTOR IN NEMA 1 HINGED ENCLOSURE LARGE ENOUGH TO HOUSE TWO CONTACTORS. CONTACTOR TO BE GE CR360L SERIES, 4 NO 30A RATED, ELECTRICALLY HELD CONTACTS, 120V COIL OR APPROVED EQUAL.

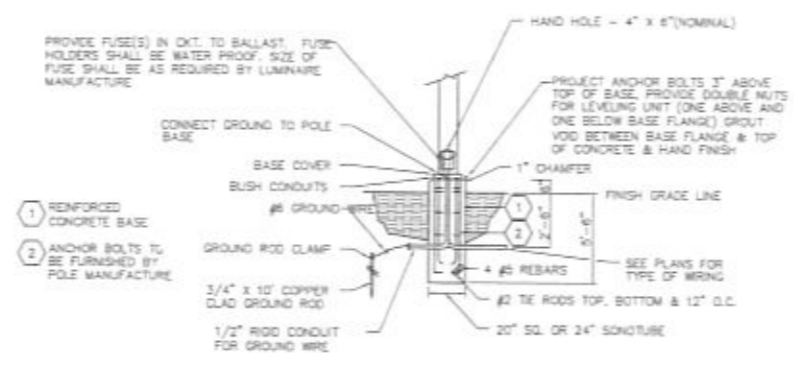


GROUND MOUNTED FIXTURE DETAIL  
NO SCALE

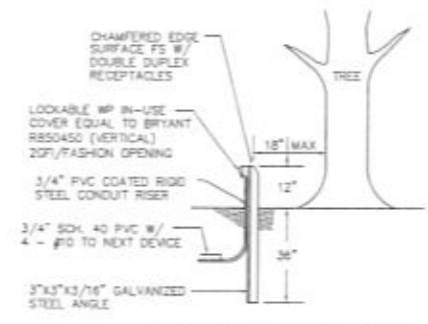


ONE 4-POLE CONTACTOR IN NEMA 1 HINGED ENCLOSURE LARGE ENOUGH TO HOUSE TWO CONTACTORS. CONTACTOR TO BE GE CR360L SERIES, 4 NO 30A RATED, ELECTRICALLY HELD CONTACTS, 120V COIL OR APPROVED EQUAL.

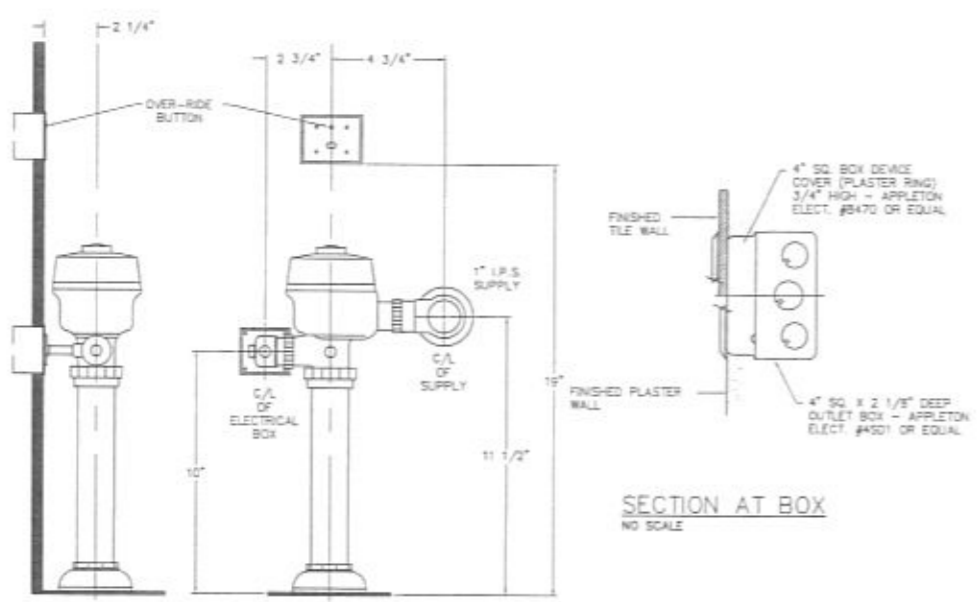
EXTERIOR LIGHTING CONTROL DIAGRAM  
NO SCALE



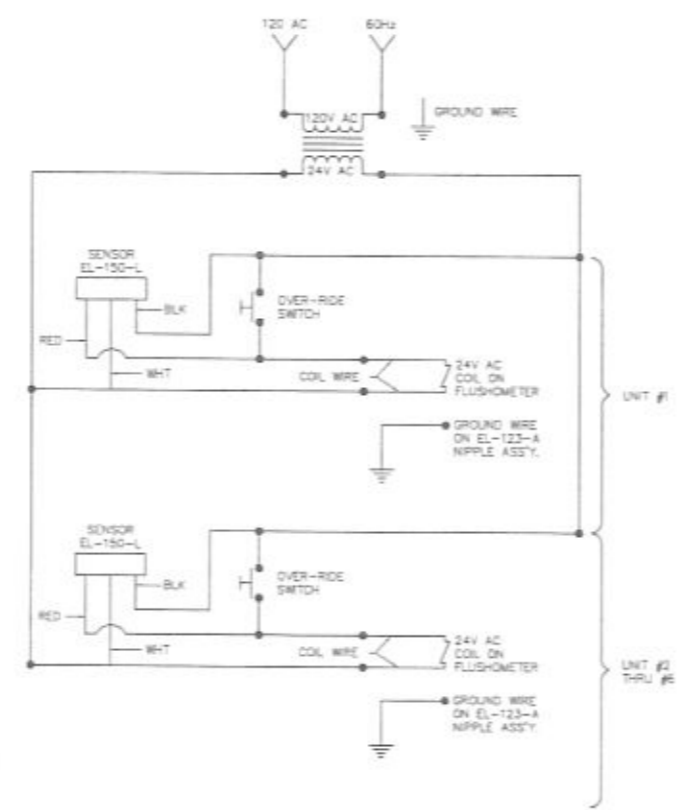
POLE BASE DETAIL FOR RELOCATED POLES  
NO SCALE



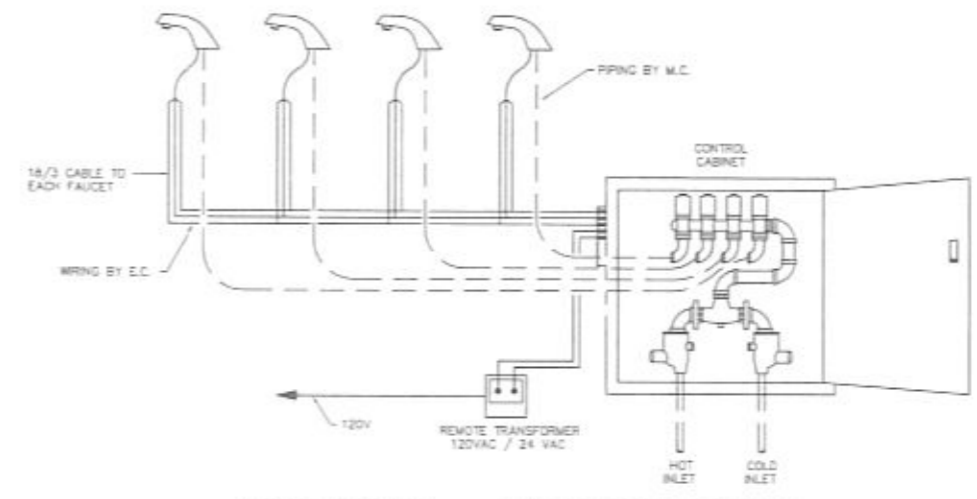
WP RECEPTACLE DETAIL  
NO SCALE



ROUGH-IN DETAIL AT EACH WATER CLOSET  
NO SCALE



WIRING DIAGRAM - AUTO SENSING WATER CLOSETS  
NO SCALE



WIRING DIAGRAM -- AUTO SENSING FAUCETS  
NO SCALE

CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES

Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer or owner. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer \_\_\_\_\_ Date \_\_\_\_\_  
COMMENTS \_\_\_\_\_

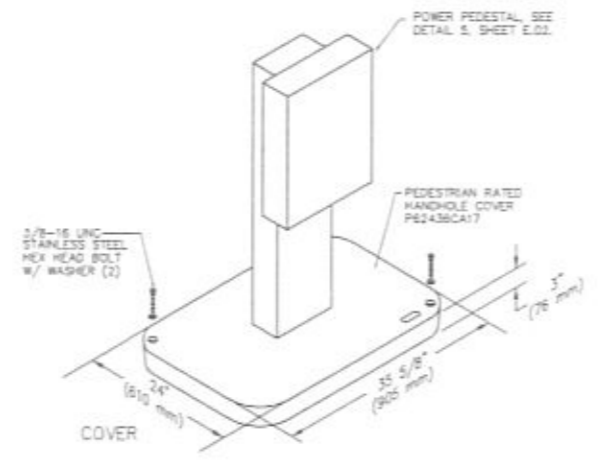
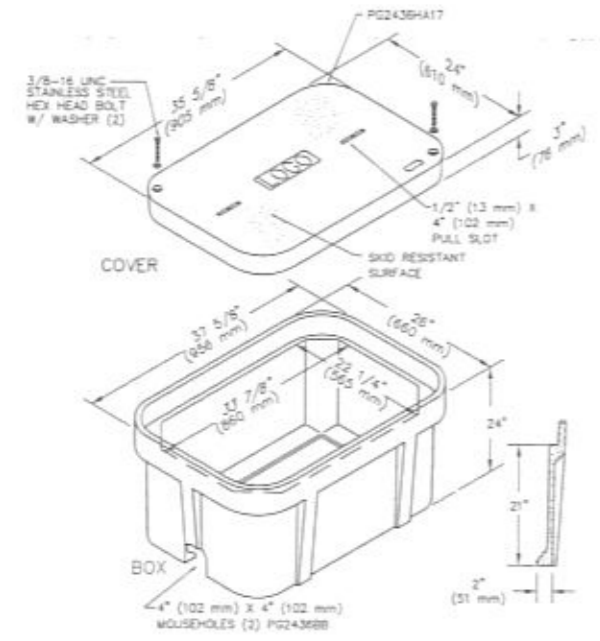
PRELIMINARY  
Not for  
Construction

Designed By: \_\_\_\_\_  
Design Date: FEB. 2010  
Internal Job No: WPEPR00061  
Surveyed By: FMG, Inc.  
Survey Date: AUG. 2009

POWOW GARDENS &  
ART MARKET

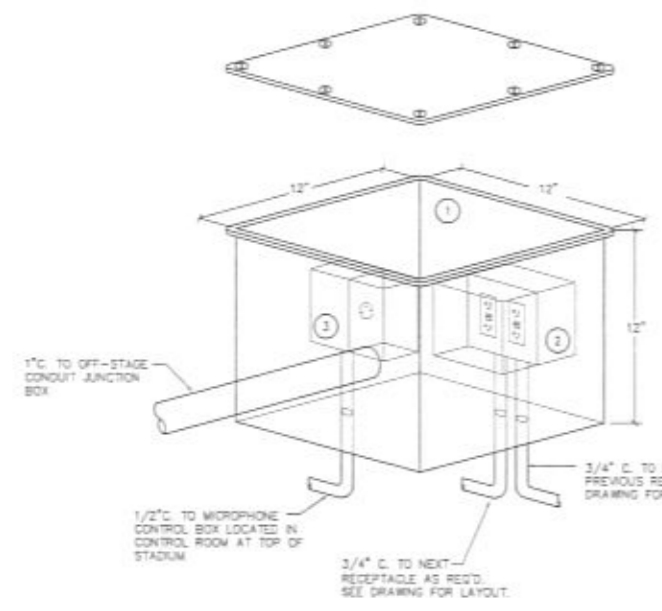
Sheet Title:  
ELECTRICAL  
DETAILS  
Sheet:  
E4 of XX

PROJECT NO. RC09-180000703



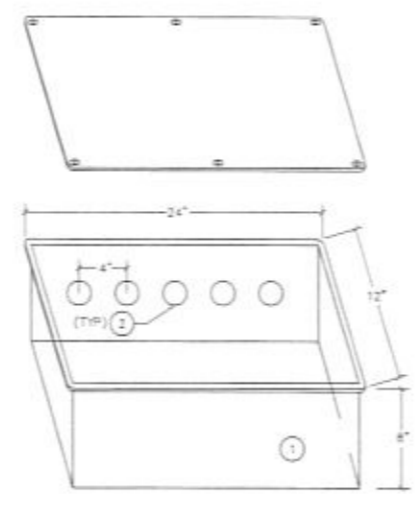
- NOTES
1. QUIAZITE MODEL PG2436BA24 W/ PG2436HA17 COVERS WITH GASKET.
  2. PROVIDE ADDITIONAL PG2436CA17 COVER WITH GASKET FOR MOUNTING OF POWER PEDESTALS FOR EACH OF 6 HANDHOLES.

**PEDESTAL HANDHOLE DETAIL**  
 NO SCALE



- SPECIFIC NOTES**
1. ENCLOSURE TO BE EQUAL TO APPLETON WYF-121212 FLAT FLANGED SUBMERSIBLE BOX.
  2. INSIDE BOX MOUNT (1) TWO GANG WEATHERPROOF IN-USE DOUBLE DUPLEX OFD RECEPTACLE.
  3. INSIDE BOX MOUNT (1) ONE GANG WEATHERPROOF IN-USE 3-PIN KLR MICROPHONE FEMALE JACK.

**STAGE MICROPHONE AND RECEPTACLE BOX DETAIL**  
 NO SCALE



- SPECIFIC NOTES**
1. ENCLOSURE TO BE EQUAL TO APPLETON WYF-241208 FLAT FLANGED SUBMERSIBLE BOX.
  2. 1\"/>

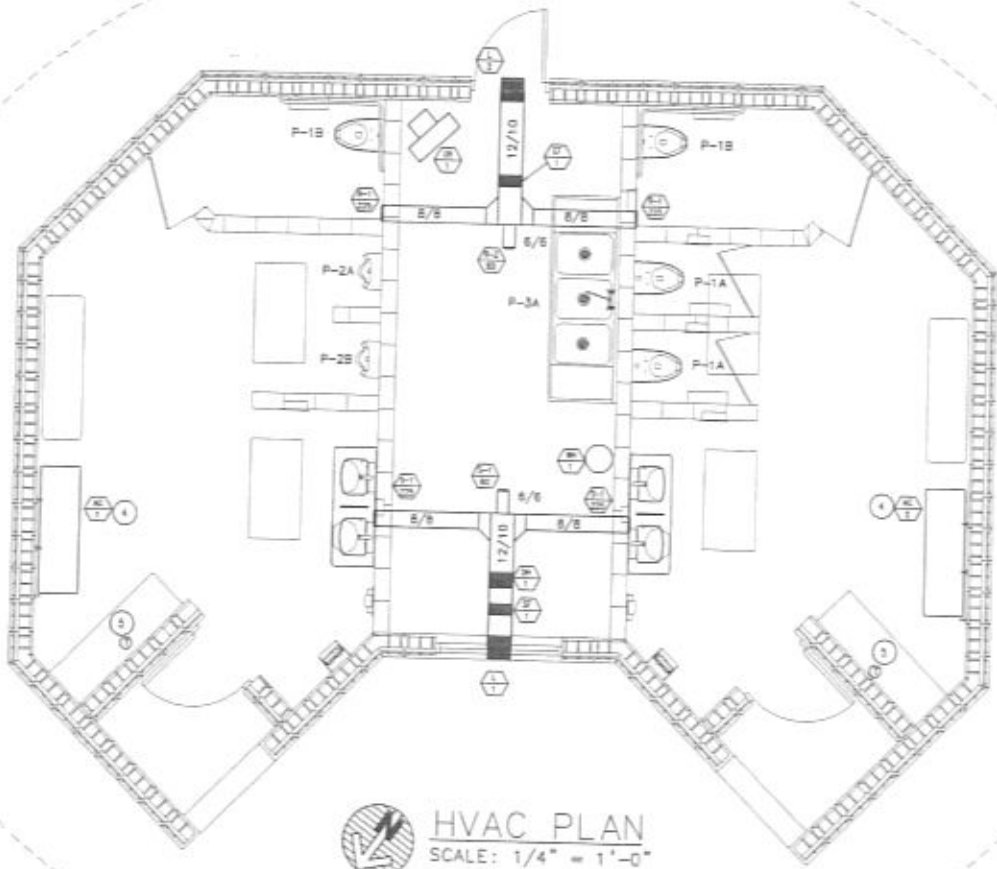
**OFF-STAGE CONDUIT JUNCTION BOX DETAIL**  
 NO SCALE

CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES

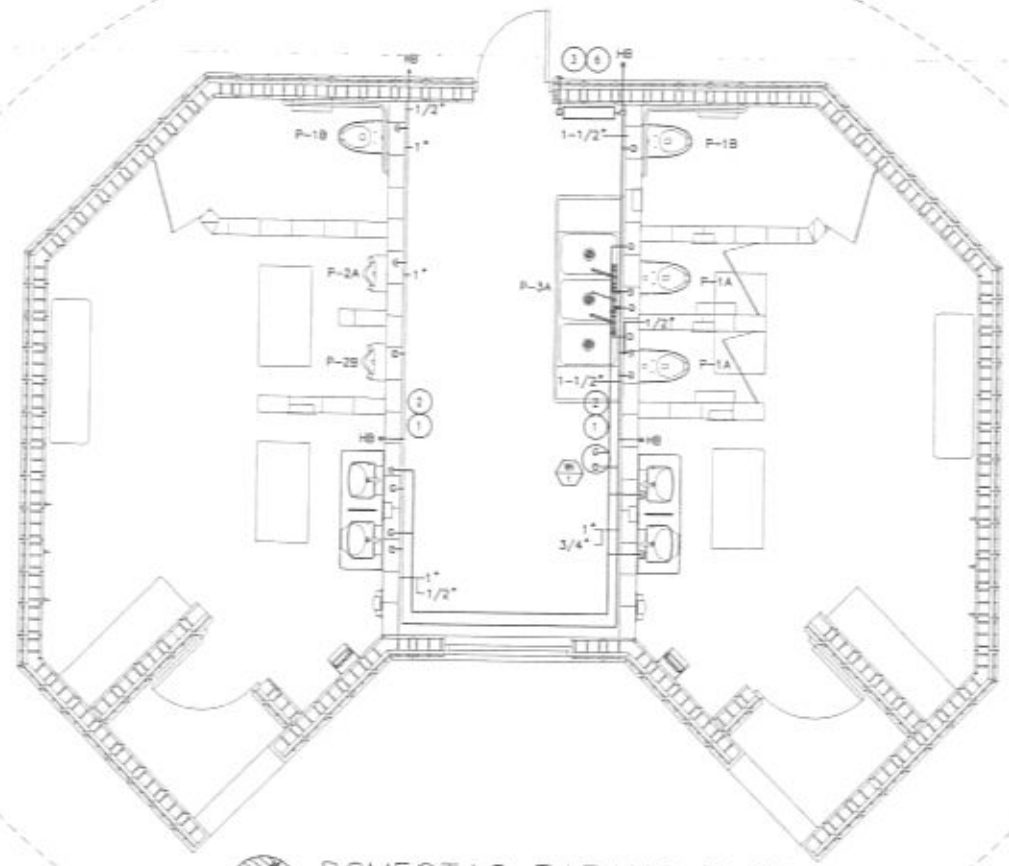
Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer \_\_\_\_\_ Date \_\_\_\_\_

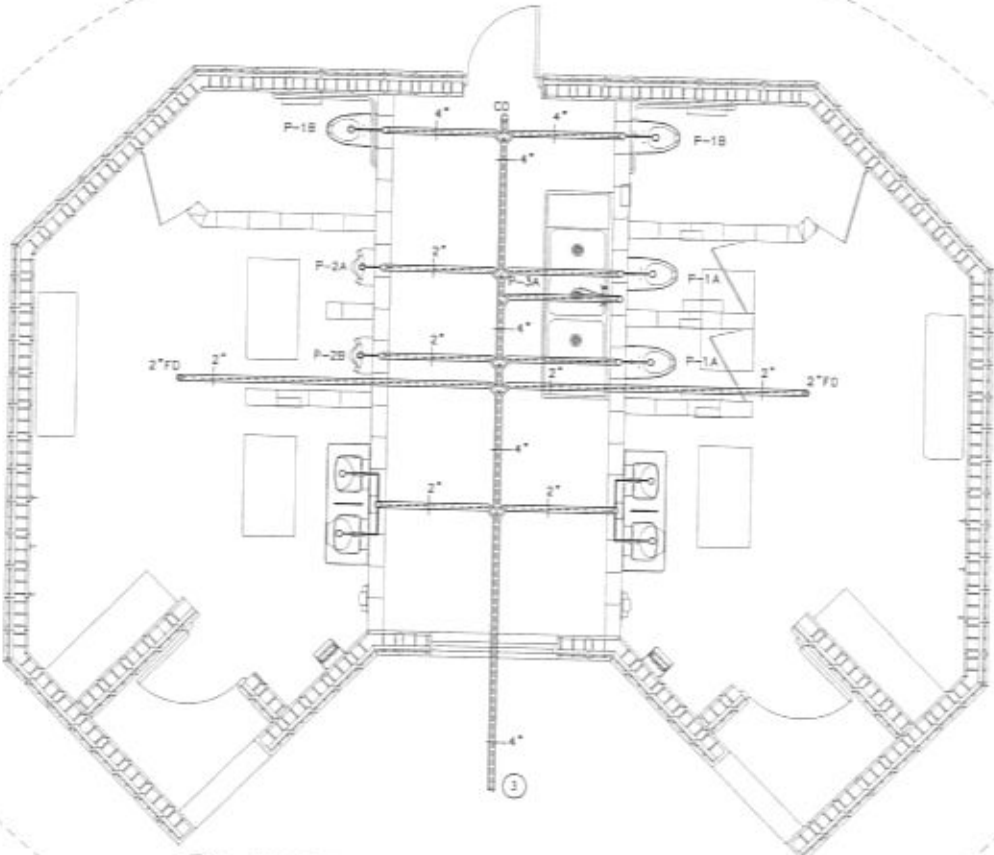
COMMENTS \_\_\_\_\_



**HVAC PLAN**  
SCALE: 1/4" = 1'-0"



**DOMESTIC PIPING PLAN**  
SCALE: 1/4" = 1'-0"



**WASTE & VENT PIPING PLAN**  
SCALE: 1/4" = 1'-0"

- GENERAL MECHANICAL NOTES**
- A. COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES.
  - B. ALL PIPING INSULATION SERVING DOMESTIC COLD WATER PIPING SHALL BE INSTALLED WITH UNBROKEN VAPOR BARRIERS AS PER SPECIFICATIONS. CONTRACTOR TO USE METAL SADDLES AND STRAPS ON EXTERIOR OF INSULATION FOR SUPPORT OF PIPING AT HANGERS, UNISTRUT, ETC.
  - C. ISOLATE ALL COPPER PIPE FROM BEARING ON FERROUS HANGERS, ETC. WITH ELECTRICALLY INSULATING MATERIALS AS SPECIFIED. USE DIELECTRIC UNIONS IN CONNECTION OF ALL COPPER PIPING TO FERROUS PIPING AS SPECIFIED.
  - D. COORDINATE LOCATION OF DUCTWORK AND PIPING WITH STRUCTURE AND OTHER TRADES. INSTALL DUCTWORK AS HIGH AS POSSIBLE.
- SPECIFIC MECHANICAL NOTES**
- PLUMBING**
1. PROVIDE SLOAN EL-154 (120VAC/24KVIC, 50VA) TRANSFORMER WITH 12" X 12" STAINLESS STEEL BOX WITH LOCKING COVER. PROVIDE (1) BOX FOR EACH RESTROOM.
  2. PROVIDE (1) TRANSFORMER FOR A MAXIMUM OF (2) FAUCETS AND (3) WATER CLOSETS OR URINALS.
  3. REFER TO SITE/CIVIL PLANS FOR CONTINUATION.
  4. MOUNT AC UNITS AT 7' AFF.
  5. PROVIDE LOCKING COVER ON ALL THERMOSTATS.
  6. SEE WATER METER DETAIL.

**CITY OF RAPID CITY  
GROWTH MANAGEMENT DEPT.  
DEVELOPMENT SERVICES**

Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, adequacy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer \_\_\_\_\_ Date \_\_\_\_\_

COMMENTS \_\_\_\_\_

Presented For: **PUBLIC WORKS**  
CITY OF RAPID CITY  
SAFETY DIVISION

Prepared By: **WPE WEST PLAINS ENGINEERING AND CONSULTING, INC.**  
1700 BROADWAY, SUITE 200, RAPID CITY, SD 57702  
PHONE: 605-342-1100  
WWW.WPE-ENR.COM

**PRELIMINARY  
Not for  
Construction**

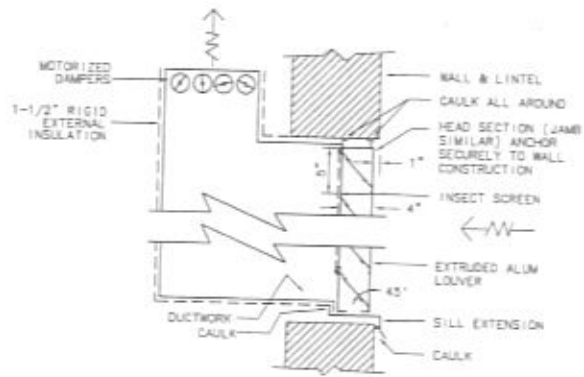
Designed By: MJK/JKH	Drawn By: JPC
Design Date: FEB. 2010	Print Date: 01-09-09
Internal Job No: WPEMR09081	Survey Date: AUG. 2009
Surveyed By: FLAG, Inc.	Remarks:

**POWOW GARDENS &  
ART MARKET**

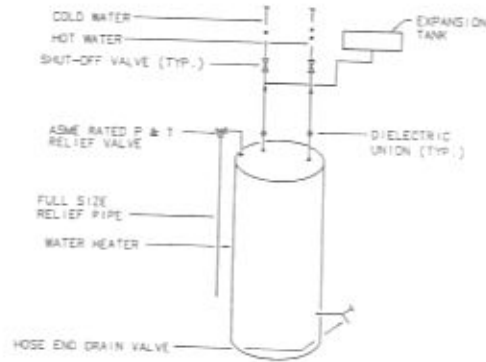
PROJECT NO. RC09-1680907B3

Sheet Title: **HVAC & PLUMBING  
PLANS**

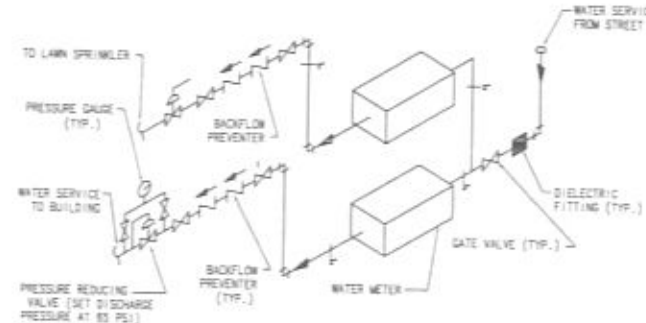
Sheet: **M1** of **XX**



AIR INTAKE DETAIL  
NO SCALE



WATER HEATER PIPING DETAIL  
NO SCALE



WATER METER PIPING DETAIL  
NO SCALE

UNIT NO	MANUFACTURER'S DESIGNATION	LOCATION	FUNCTION	SIZE W" x H"	CFM	S.P. (IN. W.G.)	FREE AREA	VELOCITY (FPM)	REMARKS
L-1	RUSKIN ELF637504D	MED. ROOM	INTAKE	18" x 18"	810	0.05	656		1,2,3
L-2	RUSKIN ELF637504D	MED. ROOM	EXHAUST	18" x 18"	810	0.05	656		1,2,3

- NOTES:  
 1. PROVIDE WITH BRD SCREEN.  
 2. ARCHITECT TO SELECT COLOR.  
 3. ALUMINUM CONSTRUCTION WITH BAKED ENAMEL FINISH.

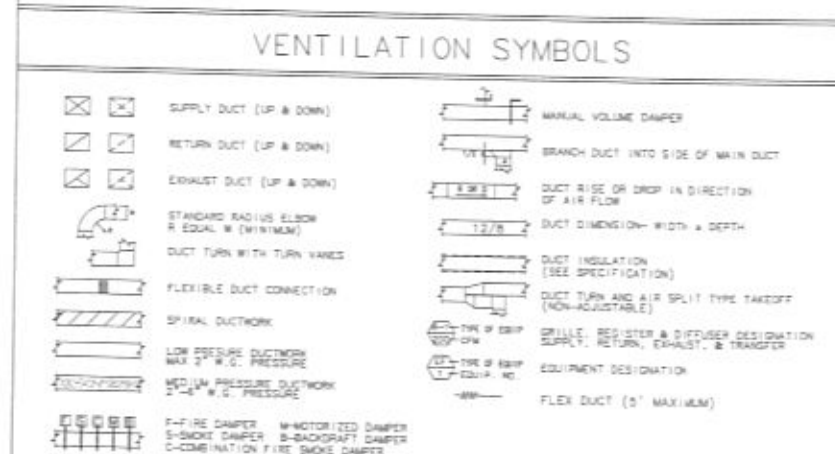
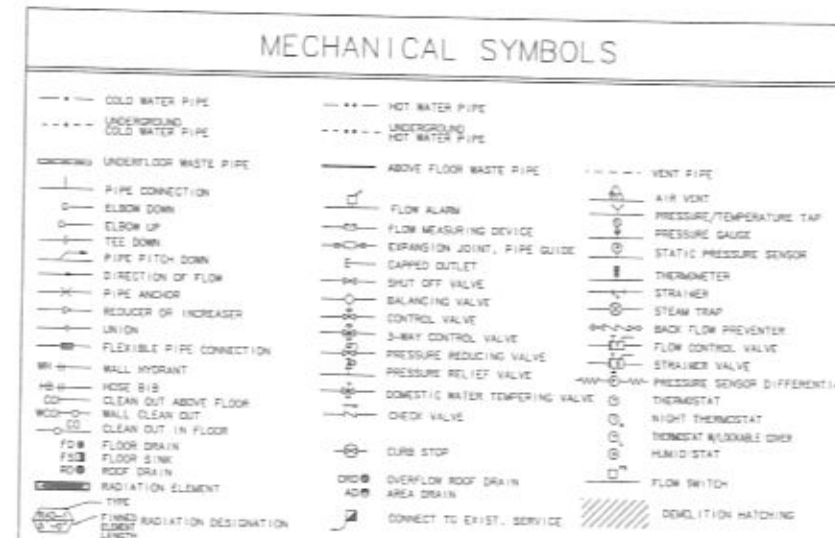
UNIT NO	MANUFACTURER'S DESIGNATION	RECORD HEAT			COOLING			HEATING			ELECTRIC			REMARKS
		KW	MBH	AMB	EAT	MBH	COE	DAT	V/PH/MZ	MCA	REMARKS			
AC-1	GE AZ39H12D	-	11.85			10.9	3.4		208/1/60	4.7	1,2,3			
AC-2	GE AZ39H12D	-	11.85			10.9	3.4		208/1/60	4.7	1,2,3			

- NOTES:  
 1. PROVIDE CORD AND PLUG.  
 2. PROVIDE WALL SLEEVE.  
 3. PROVIDE WITH WALL MOUNTED THERMOSTAT.

UNIT NO	MANUFACTURER'S DESIGNATION	LOCATION	SERVICE	VIBRATION ISOLATION	CFM	S.P.D. (IN)	MAX RPM	MOTOR HP	ELEC	SONES	REMARKS
EF-1	COOK GC-720	MED. ROOM	EXHAUST	INTERNAL	530	0.75	1600	246 W	120/1/60	4.5	1,2,3,4
SF-1	COOK GN-720	MED. ROOM	SUPPLY	INTERNAL	530	0.75	1600	246 W	120/1/60	4.5	1,2,3,4,5

- NOTES:  
 1. SELECTED AT 3200 FT ELEVATION. PROVIDE WITH FAN SPEED CONTROL SWITCH.  
 2. PROVIDE WITH THERMAL OVERLOAD, STANDARD PLUG DISCONNECT, RUBBER ISOLATORS.  
 3. PROVIDE WITH ANODIZED ALUMINUM DRILLE.  
 4. PROVIDE WITH WALL CAP OR ROOF CAP (AS INDICATED ON PLANS) WITH BACK DRAFT DAMPER.  
 5. PROVIDE WITH FILTER BOX AND FILTER. FILTER SHALL BE 2" THICK WITH AREA OF 24" X24", MERV 8 RATING.

FIXTURE NO	MANUFACTURER'S DESIGNATION	FIXTURE TYPE	WASTE	VENT	SUPPLY		TRIM/REMARKS
					CW	HW	
P1-A	ACORN "MERIDIAN" 2140-T-1-RM	WATER CLOSET (W/SHOWER PAN) 1.6 GPF	4"	2"	1-1/4"	-	SLONE OPTMA MODEL 152-1.6 ES-S. PROVIDE ACORN BLACK OPEN FRONT SEAT (LESS COVER), CARRIER AND SLOAN EL-154 TRANSFORMER
P1-B	ACORN "MERIDIAN" 2140-T-1-RM	WATER CLOSET (W/SHOWER PAN) 1.6 GPF	4"	2"	1-1/4"	-	SLONE OPTMA MODEL 152-1.6 ES-S. PROVIDE ACORN BLACK OPEN FRONT SEAT (LESS COVER), CARRIER AND SLOAN EL-154 TRANSFORMER
P2-A	ACORN "MERIDIAN" 2155-T-1-RM	URNAL (FV) 0.5 GPF	2"	1-1/2"	3/4"	-	SLONE OPTMA MODEL 195-0.5 ES-S. MODEL DURA-BARE 2158. PROVIDE CARRIER AND SLOAN EL-154 TRANSFORMER
P2-B	ACORN "MERIDIAN" 2155-T-1-RM	URNAL (FV) 0.5 GPF	2"	1-1/2"	3/4"	-	SLONE OPTMA MODEL 195-0.5 ES-S. MODEL DURA-BARE 2158. PROVIDE CARRIER AND SLOAN EL-154 TRANSFORMER
P3-A	ELKAY "RODBILT" RNS7872LR4	TRIPLE COMP. SINK	2"	1-1/2"	1/2"	1/2"	3) CHICAGO FAUCETS 540-LDL2ETNKP/CP HAND-TRAP SUPPLY/DRAIN PROTECTION, ADA, POWERS E480 THERMOSTATIC MIXING VALVE
H8	WOODFORD B65	HOSE BIB	-	-	1/2"	-	CONCEALED BOX TYPE, FREEZELESS ANTI SPHON, CHROME PLATED FINISH, INTEGRAL VACUUM BREAKER



UNIT NO	MANUFACTURER'S DESIGNATION	LOCATION	SERVES	STORAGE CAPACITY	RECOVERY RATE	TEMP. RISE	ELECTRICAL V/PH/CY	MCA	REMARKS
WH-1	A.O. SMITH DEL-15	MED. RM.	-	15 GAL	20 GPH	80	208/1/60	-	

- NOTES:  
 1. 3 KW NON-SIMULTANEOUS OPERATION ELEMENT

UNIT NO	MANUFACTURER'S DESIGNATION	LOCATION	MBH	KW	CFM	MOTOR			REMARKS
						RPM	HP	VOLTAGE	
UH-1	BERKO HUNAA320	MED. ROOM	10	3	350	1600	1/100	208/1/60	

- NOTES:  
 1. PROVIDE HEATING THERMOSTAT.

UNIT NO	MANUFACTURER'S DESIGNATION	LOCATION	SERVICE	SIZE			REMARKS
				GALLONS	LENGTH	DIAMETER	
AMTRQ	ST-5-C	MED. ROOM	DOM. WTR.	3.1	10-3/8"	10"	

CITY OF RAPID CITY  
 GROWTH MANAGEMENT DEPT.  
 DEVELOPMENT SERVICES

Plans are reviewed for general conformance with applicable governmental regulations, stipulations, design criteria and engineering standards. The City of Rapid City does not certify the suitability, accuracy or completeness of the plans or design, which are the responsibility of the engineer of record. All necessary permits shall be obtained prior to construction of the proposed public improvements.

Engineering Reviewer: \_\_\_\_\_ Date: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

City of Rapid City Logo

WPE MECHANICAL PLANS ENGINEERING, INC.  
 1705 BROAD ROAD, W. RAPID CITY, SD 57402  
 PHONE: (605) 251-1100 • FAX: (605) 251-1646  
 WWW.WPE-SD.COM

Designed By: MDH/JAH | Drawn By: JPC  
 Design Date: FEB. 2010 | Print Date: 02-10-10  
 Internal Job No: WPE1009081 | Survey Date: AUG. 2009  
 Surveyed By: FMG, Inc. | Survey Date: AUG. 2009

POWOW GARDENS & ART MARKET

PROJECT NO. RC09-100505793

MECHANICAL DETAILS & SYMBOLS

Sheet Title: \_\_\_\_\_  
 Sheet: M2 of YY