

Lawrence County
P TAPR(04)
PCN 04QE

**A Pre-Bid meeting will be held at the Rapid City Region
Office (2300 Eglin Street)
from 1 :00 m to : 0pm MT on u sday ° , 201 .
All interested parties are strongly encouraged to attend.**

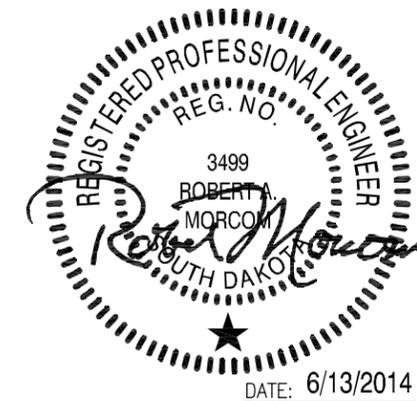
City of Deadwood Gateway Parking



TSP, Inc.
600 Kansas City St.
Rapid City, SD 57701

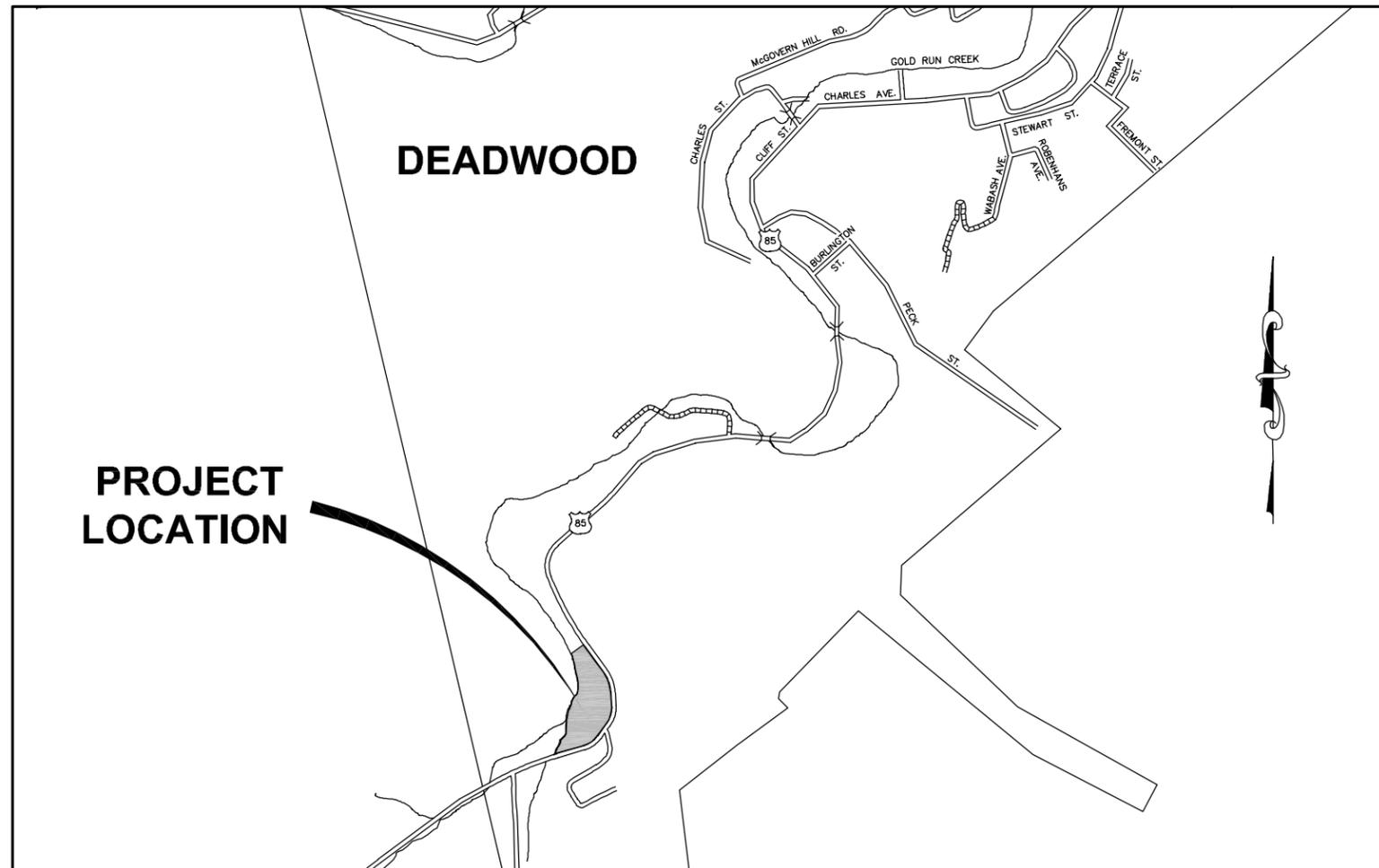
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www.teamtsp.com

Project P TAPR(04) PCN 04QE

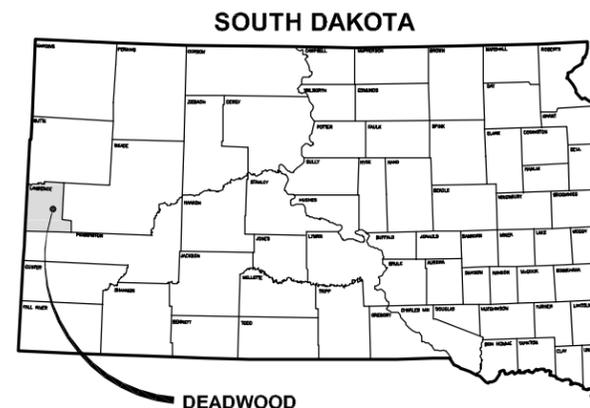


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PROJECT LOCATION MAP NOT TO SCALE



ONE CALL
BEFORE DIGGING
1-800-781-7474

CITY of DEADWOOD

Plan Set Number :

City of Deadwood
Gateway Parking
SDDOT Project Number - P TAPR(04) PCN 04QE

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ESTIMATE OF QUANTITIES

Bid Item No.	Item	Unit	Non-Participating Quantity	Participating Quantity
009E0010	Mobilization	LS	Lump Sum	
009E3200	Construction Staking	LS	Lump Sum	
009E3290	Structure Staking	Each	1	
009E3300	3 Man Survey Crew	Hour	40	
100E0100	Clearing	LS		Lump Sum
110E0100	Remove Concrete Footing(s)	LS	Lump Sum	
110E1010	Remove Asphalt Concrete Pavement	SqYd	725	
110E1100	Remove Concrete Pavement	SqYd	945	
110E1300	Remove Concrete Retaining Wall	Ft	40	
230E0020	Placing Contractor Furnished Topsoil	CuYd	306	
250E0020	Incidental Work, Grading	LS		Lump Sum
260E1010	Base Course	Ton	550.2	20
260E6010	Granular Material	Ton		215.3
320E1200	Asphalt Concrete Composite	Ton	420.0	
420E0300	Structure Excavation, Retaining Wall	CuYd		56
450E0102	12" RCP Class 2, Furnish	Ft	270	
450E0110	12" RCP, Install	Ft	270	
450E2000	12" RCP Flared End, Furnish	Each	1	
450E2001	12" RCP Flared End, Install	Each	1	
460E0100	Class A45 Concrete, Miscellaneous	CuYd		10.2
470E0030	Special Steel Railing	Ft		50
480E0100	Reinforcing Steel	Lb		398
530E0700	Granular Material for MSE Segmental Block Wall	CuYd		7.7
620E0300	Special Right-of-Way Fence	Ft	272	
633E1407	Pavement Marking Paint, 6" White	Ft	650	
633E1460	Pavement Marking Paint, Symbol	Each	2	
635E6200	Miscellaneous, Electrical	LS		Lump Sum
650E0060	Type B66 Concrete Curb and Gutter	Ft	450	
650E3080	Type B8 Concrete Curb	Ft		125
651E2010	Special Sidewalk	SqFt	3055	
651E7000	Type 1 Detectable Warnings	SqFt	32	
670E1015	3' x 4' Type B Drop Inlet	Each	2	
670E1200	Type B Frame and Grate Assembly	Each	2	
670E4200	Type M Median Drain	Each	3	
670E4205	Type M Frame and Grate Assembly	Each	3	
700E0110	Class A Riprap	Ton	0.5	
730E1200	Hydroseeding	SqYd	520	
733E0100	Sodding	SqYd	1484	
734E0602	Low Flow Silt Fence	Ft		350
735E0100	Perennial Plant, Furnish & Plant	Each	108	
735E1118	18" Deciduous Shrub, Furnish & Plant	Each	41	
735E1380	8' Coniferous Evergreen, Furnish & Plant	Each	13	
735E1520	2 Gallon Coniferous Shrub, Furnish & Plant	Each	23	
735E2220	2" Caliper Deciduous Tree, Furnish & Plant	Each	23	
735E5020	2 Gallon Ornamental Grass, Furnish & Plant	Each	39	
900E0100	Stone Facing	SqFt		520
*900E2015	Building, General	LS		Lump Sum
*900E2016	Building, Electrical	LS		Lump Sum
*900E2017	Building, Mechanical	LS		Lump Sum
900E5149	Landscape Rock	CuYd	60	
900E5150	Landscape Edging	Ft	344	
900E5151	Ornamental Landscaping Boulders	Each	72	
900E5152	Weed Barrier Fabric	SqYd	694	
900E5156	3" Depth Shredded Bark Mulch	SqYd	102	
900E5430	Irrigation System	LS	Lump Sum	

GENERAL NOTES

GRANULAR MATERIAL

For the surfacing of the relocated portion of the Mickelson Trail and the viewing area, the Contractor shall use crushed limestone with the following gradation:

Screen Size	Percent Passing
1/4"	100%
No. 4	90-100%
No. 8	50-70%
No. 40	15-35%
No. 200	6-16%

The Contractor's per ton price bid for "Granular Material" shall include, but is not limited to, furnishing, placing, grading, and compaction of the granular material.

FOR BIDDING PURPOSES ONLY

MISCELLANEOUS, ELECTRICAL

The Contractor's lump sum price bid for "Miscellaneous Electrical" shall include, but is not limited to, relocation of 2 decorative trail lights, removal of existing footings, 2 new reinforced concrete footings and anchor bolts, conduits, wiring, in-grade box/circuit splice, installation, and any other items necessary to complete the electrical work.

BUILDING, GENERAL

The contract lump sum price bid for "Building General" shall include all materials, equipment, and labor necessary to construct the 750sf public restroom/display area, including, but not limited to, foundations, slab on grade, wood frame, cement board siding, and asphalt shingles.

BUILDING, ELECTRICAL

The contract lump sum price bid for "Building, Electrical" shall include, but is not limited to, all materials, labor, and equipment necessary to construct the power supply, wiring, fixtures, lighting, and heating equipment for the public restroom/display building.

BUILDING, MECHANICAL

The contract lump sum price bid for "Building, Mechanical" shall include, but is not limited to, all materials, labor, and equipment necessary to construct the ventilation, fixtures, and plumbing for the public restroom/display building, and water and sewer services to 5 feet outside the building.

IRRIGATION SYSTEM

The Contractor's lump sum price bid for "Irrigation System" shall include, but is not limited to, irrigation controller, isolation valves, quick couplers, zone valves and boxes, pipe and fittings, sprinklers, and any other incidental work necessary to complete the irrigation system in accordance with the irrigation plan.

ORNAMENTAL LANDSCAPING BOULDERS

The Contractor's per each price for "Landscape Boulders" shall include, but is not limited to, salvaging boulders of the sizes indicated from the Highway 85 reconstruction and hauling and placing the boulders at the locations indicated on the landscape plan.

SPECIAL RIGHT-OF-WAY FENCE

The Contractor's per foot unit price bid for "Special Right-of-Way Fence", shall be for the Post Rail Fence shown on Detail E, Sheet 8 and shall include, but is not limited to, furnishing and installing all fence rail, posts, fasteners, concrete footings, drainage rock, penetrating sealer and any other items necessary to complete the work in accordance with the plans.

CLASS A45 CONCRETE, MISCELLANEOUS

A quantity of 10.2 cubic yards of "Class A45 Concrete, Miscellaneous" is included in the estimate of quantities. This item along with the item "Reinforcing Steel" is for the reinforced concrete retaining wall at the viewing area.

STONE FACING

The item "Stone Facing" is for the dry set random native stone on the downhill side of the reinforced concrete retaining wall at the viewing area.

The dry set random native stone wall shall consist of native stone obtained from the Highway 85 reconstruction or from other sources. Approximate stone dimensions shall be 16" high x 24" deep x 24"-36" long. The stone shall be nominally rectangular and suitable to be set and remain in place without grout in a stacked configuration. The stone material shall be subject to approval by the Engineer.

The Contractor's unit price bid for "Stone Facing" shall include, but is not limited to, obtaining the appropriate stone, transporting the stone to the site, placing the stone, and any other labor, materials, or equipment necessary to complete the work.

GRANULAR MATERIAL FOR MSE SEGMENTAL BLOCK WALL

The granular drainage material to be placed against the uphill side face of the reinforced concrete retaining wall at the viewing area shall be crushed limestone ledgerrock with the following gradation:

Screen Size	% Passing
1"	100
#4	20 - 100
#40	0 - 60
#200	0 - 15

SPECIAL STEEL RAILING

The item "Special Steel Railing" is for the guard railing on top of the reinforced concrete retaining wall at the viewing area.

The Contractor's unit price bid for "Special Steel Railing" shall include, but is not limited to, furnishing the steel pipe posts, rails, and balusters, painting, coring of the top of the retaining wall and securing the posts in the grouted holes.

*The three bid items 900E2015 (Building, General), 900E2016 (Building, Electrical), and 900E2017 (Building, Mechanical) are 75% eligible for Federal Transportation Alternative funds.

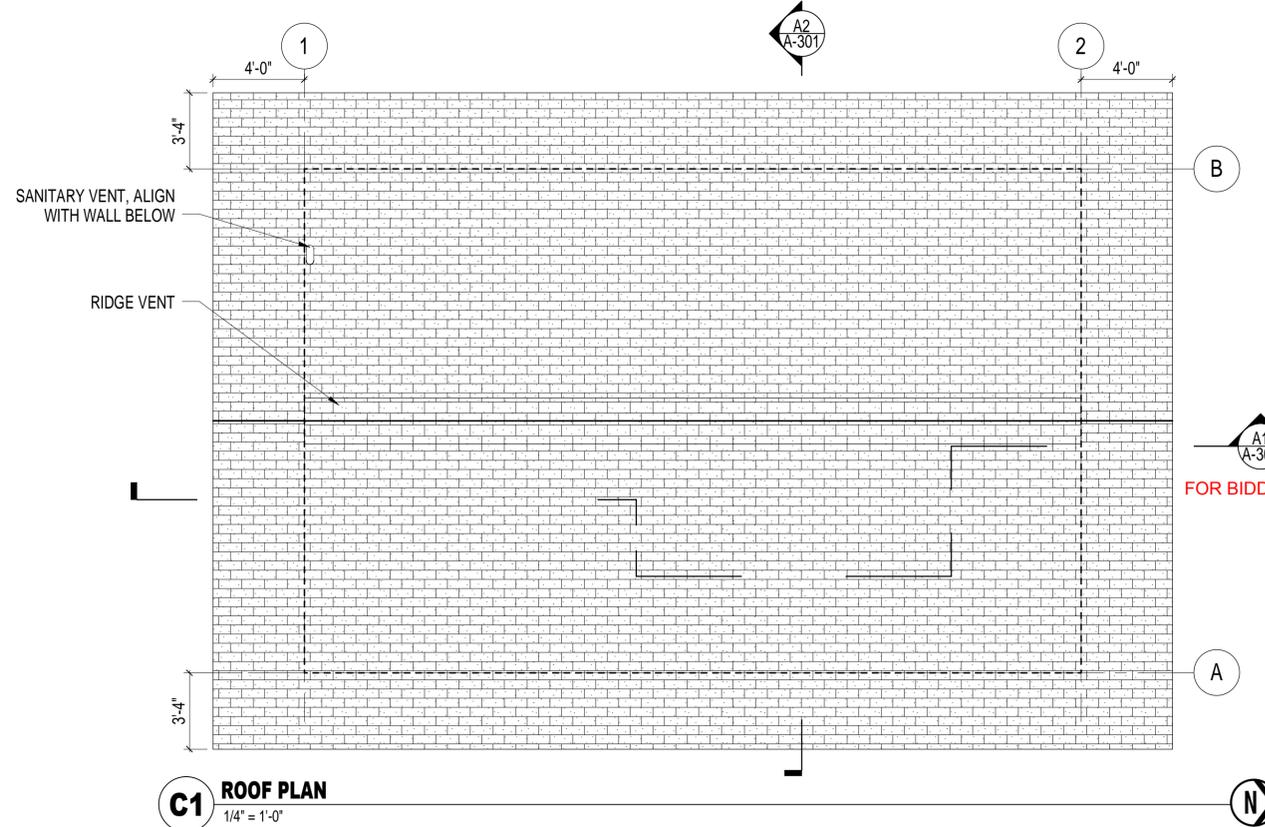
SPECIFICATIONS :

For removal items, excavation, grading, backfilling, compaction, base course, concrete sidewalk, concrete curb and gutter, storm sewer, gravel surfacing, asphalt surfacing, and erosion control items, the governing specifications shall be The South Dakota Department of Transportation, "Standard Specifications for Roads and Bridges, 2004 Edition and required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

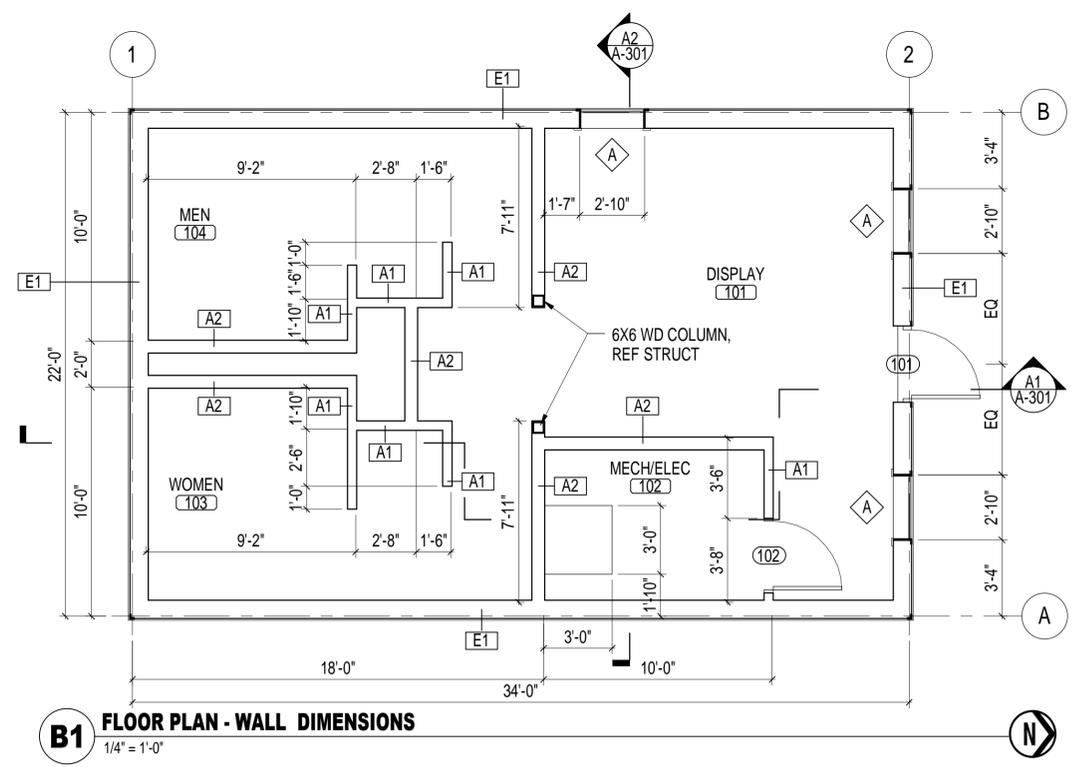
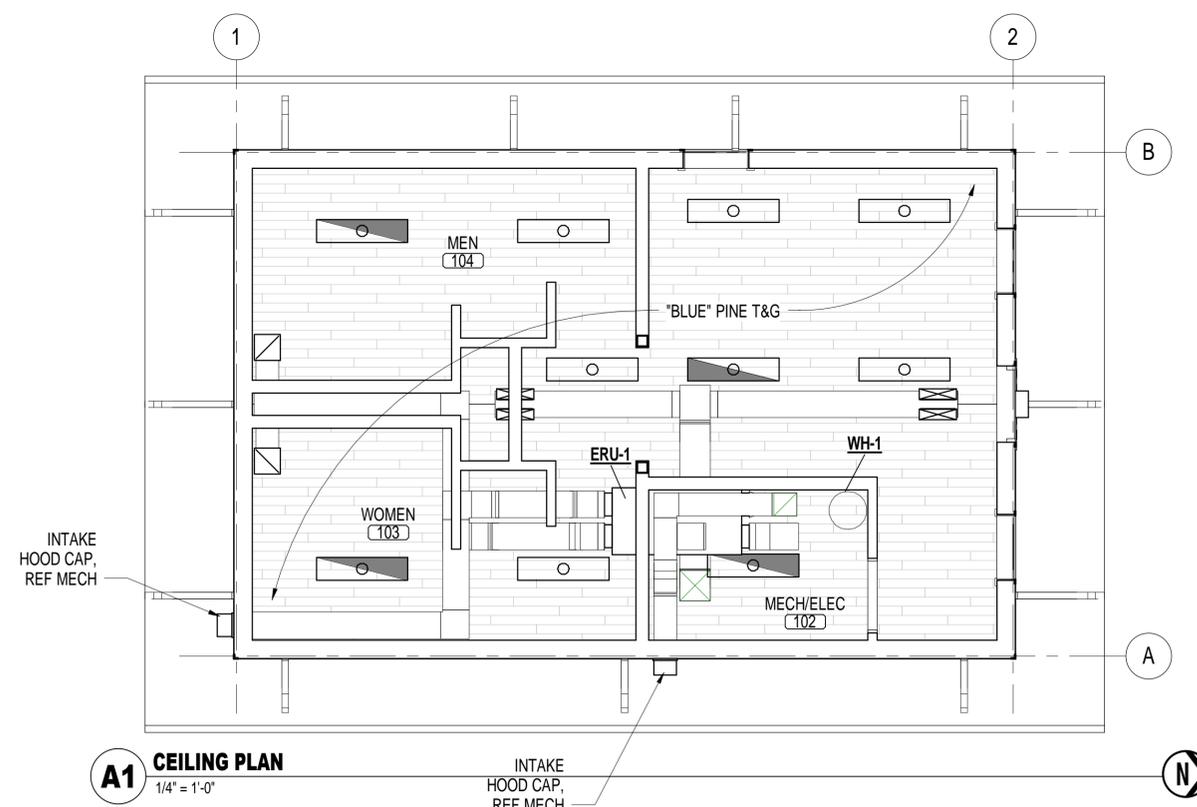
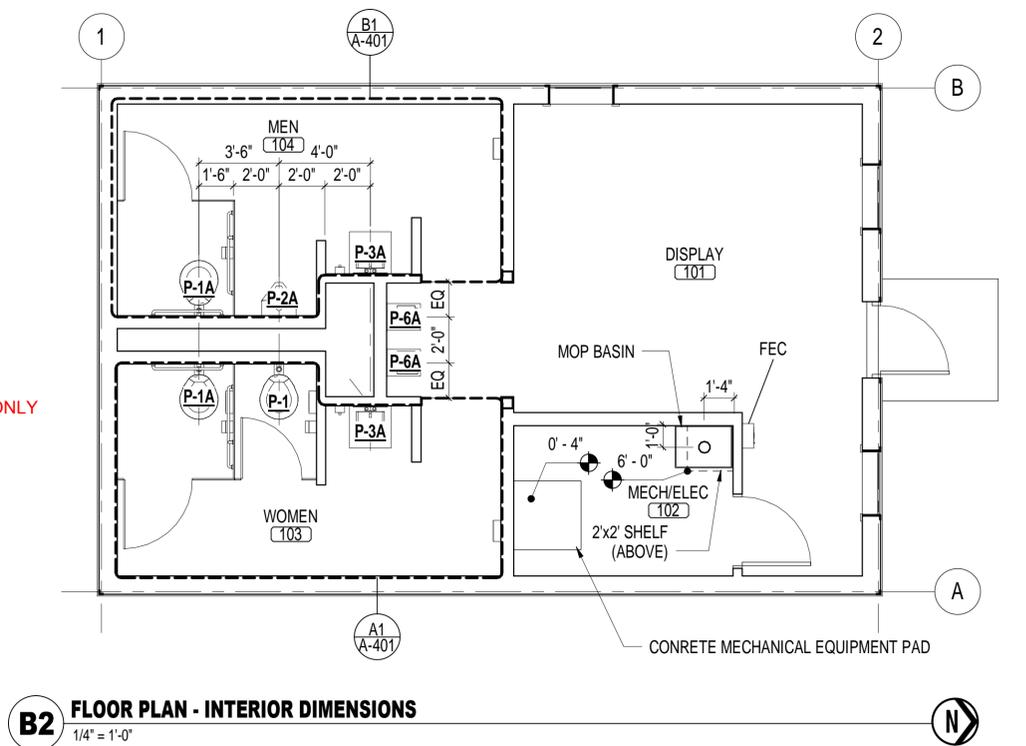
For water and sewer service items the governing specifications shall be the City of Rapid City, "Standard Specifications for Public Works Construction", 2007 Edition.

For all other items, including building architectural items, building structural items, building mechanical items, building electrical items, landscaping items, and irrigation items, the governing specifications shall be as set forth in these Plans and the Contract Documents.

Prepared By:  TSP, Inc. 600 Kansas City St. Rapid City, SD 57701 phone: (605) 343-6102 fax: (605) 343-7159 www.teamtsp.com	Prepared For: 	Scale: SCALE	City of Deadwood Gateway Parking	Sheet Title: GENERAL NOTES AND ESTIMATE OF QUANTITIES	Sheet: 2 of 29
		DESIGNED BY: Design Date: Internal Job No: Surveyed By:			



FOR BIDDING PURPOSES ONLY



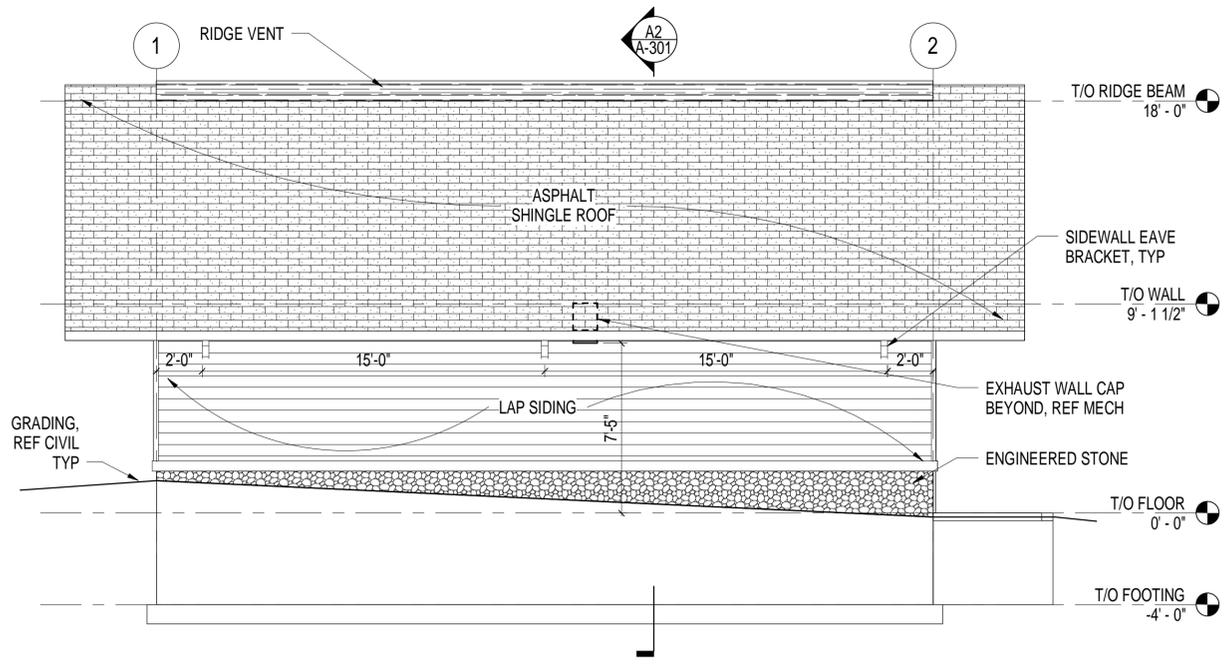
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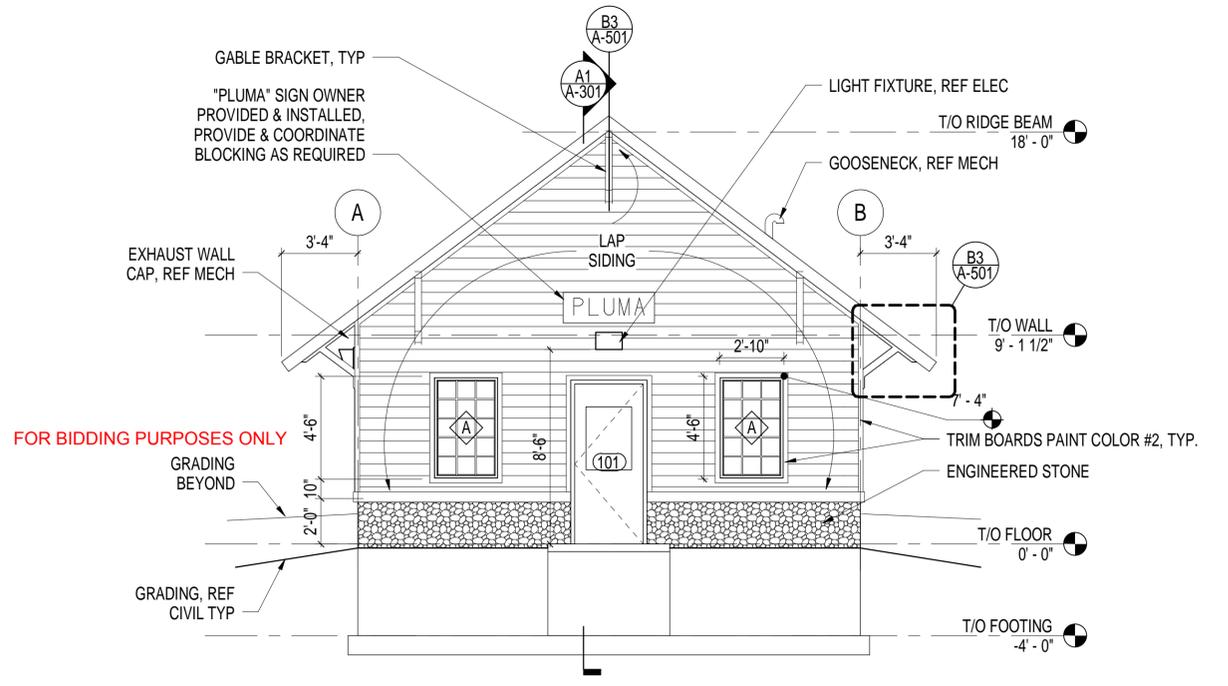
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Designed By: AS
Design Date: 06/11/2014
Internal Job No: 03120821.1
Surveyed By: -
Survey Date: -
SDDOT Project No: P TAPR(04) PCN 04QE

**City of Deadwood
Gateway Parking**

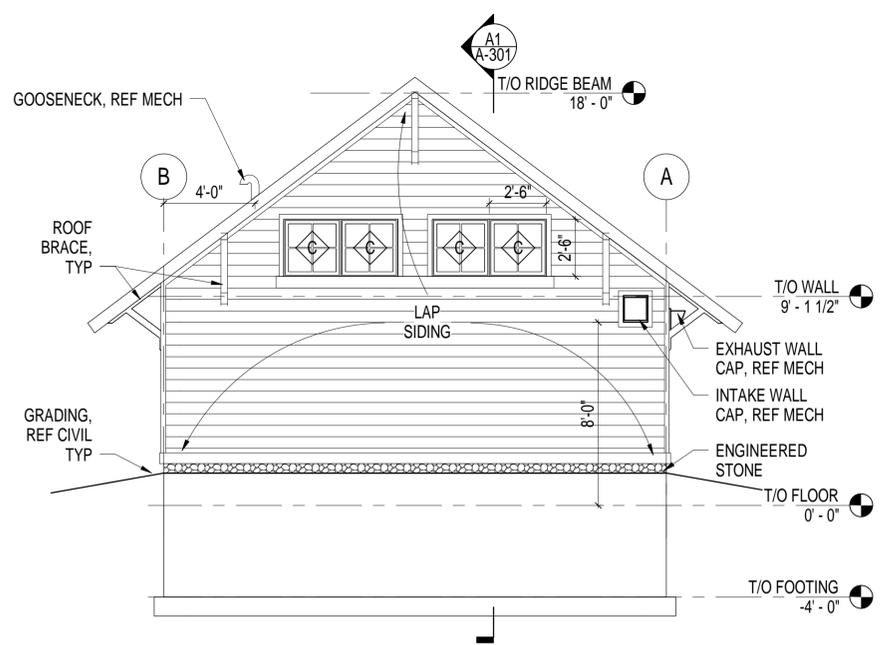
Sheet Title: A-101 ARCHITECTURAL PLANS
Sheet: 17 of 29



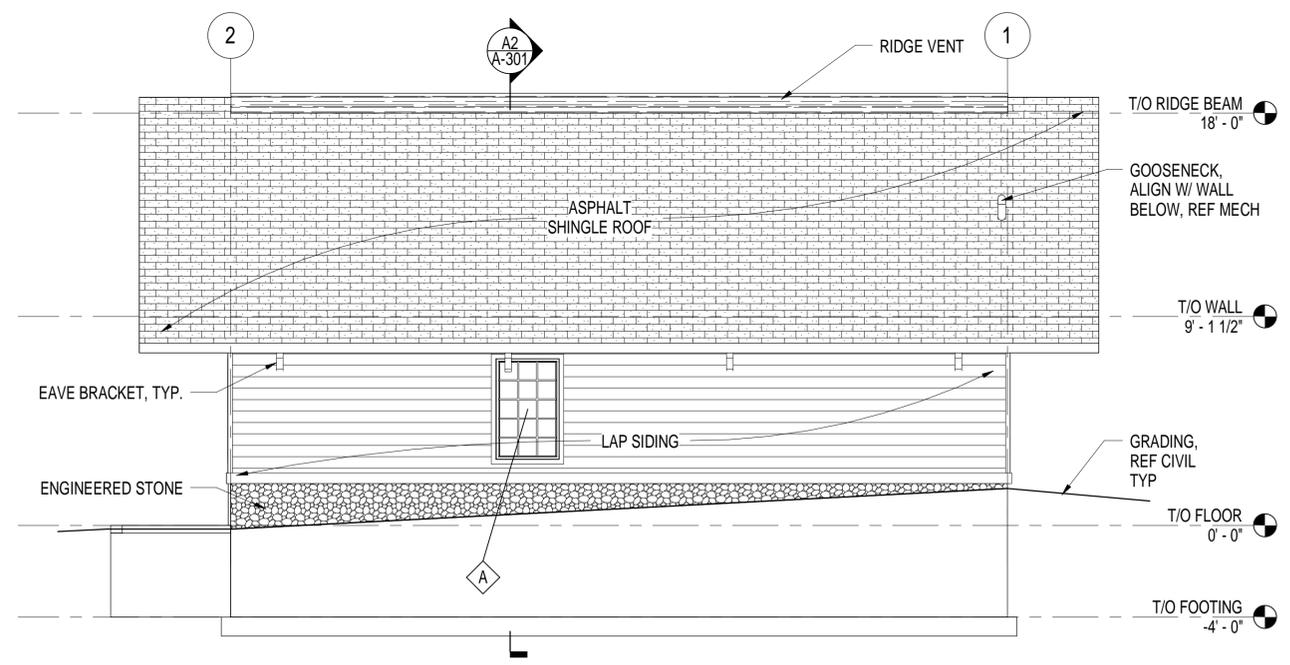
B1 EAST ELEVATION
1/4" = 1'-0"



B2 NORTH ELEVATION
1/4" = 1'-0"



A1 SOUTH ELEVATION
1/4" = 1'-0"



A2 WEST ELEVATION
1/4" = 1'-0"

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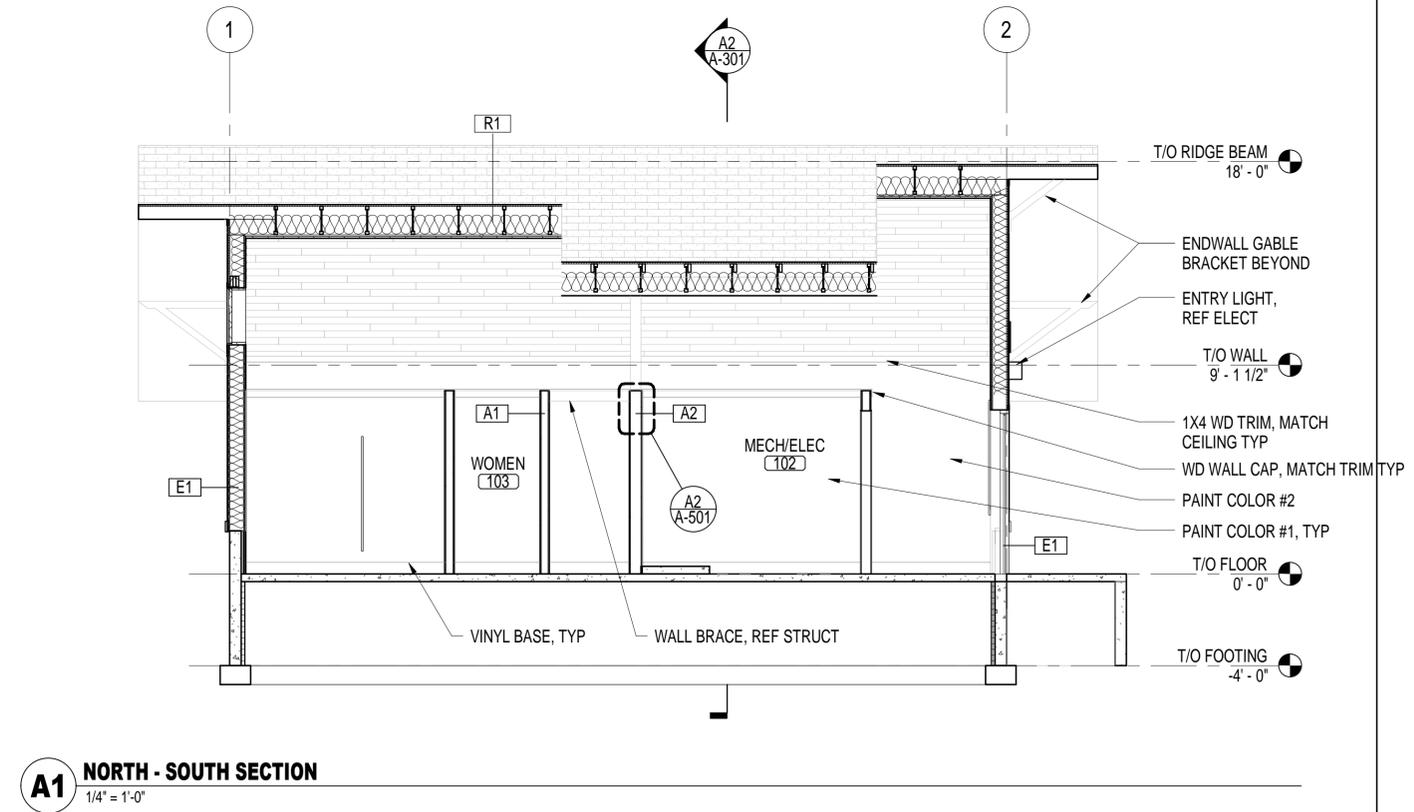
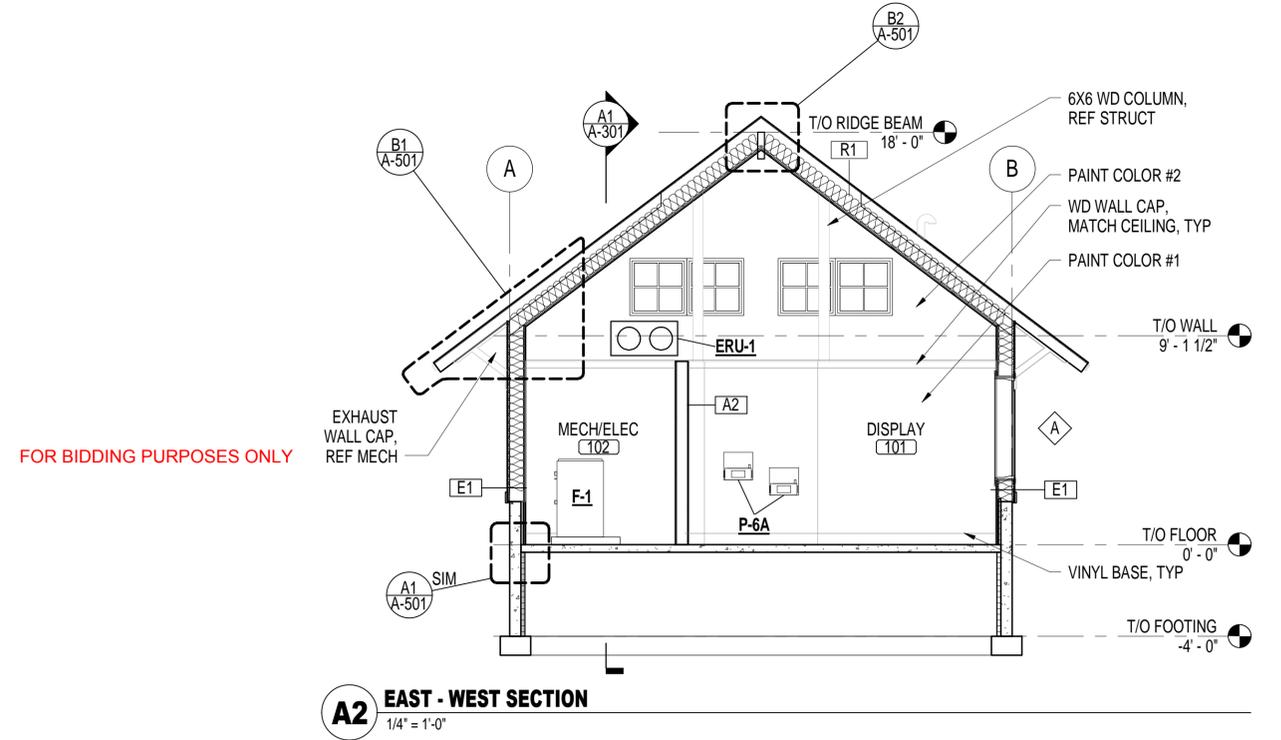


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**City of Deadwood
Gateway Parking**

Sheet Title:
A-201
EXTERIOR
ELEVATIONS

Sheet:
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of
29



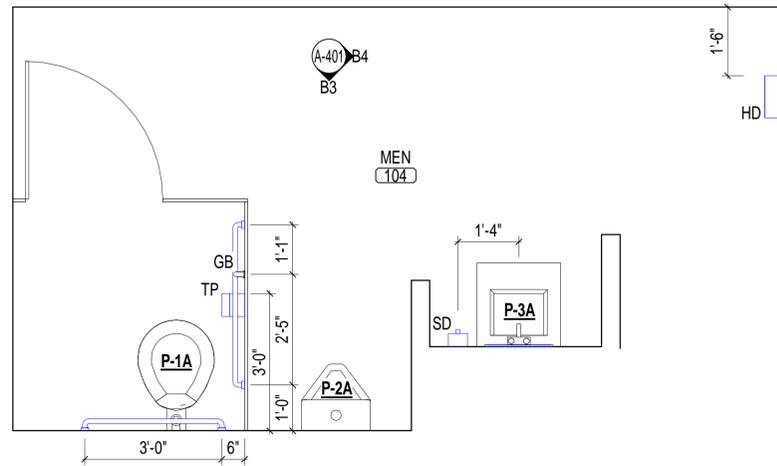
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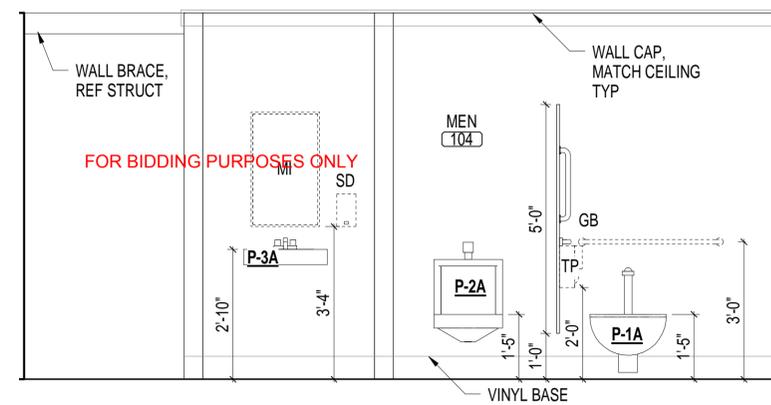
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City of Deadwood Gateway Parking

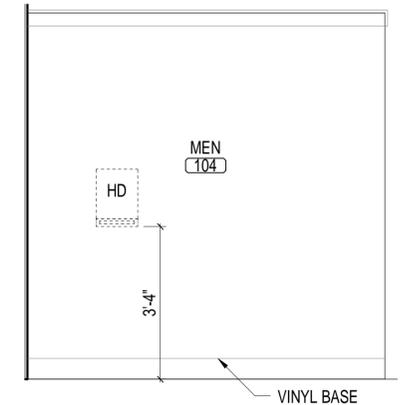
Sheet Title: A-301 BUILDING SECTIONS
Sheet: 19 of 29



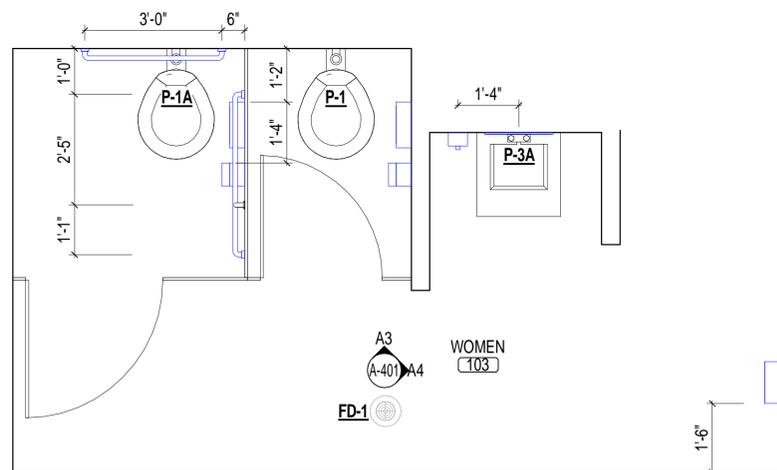
B1 MEN 104 ENLARGED PLAN
1/2" = 1'-0"



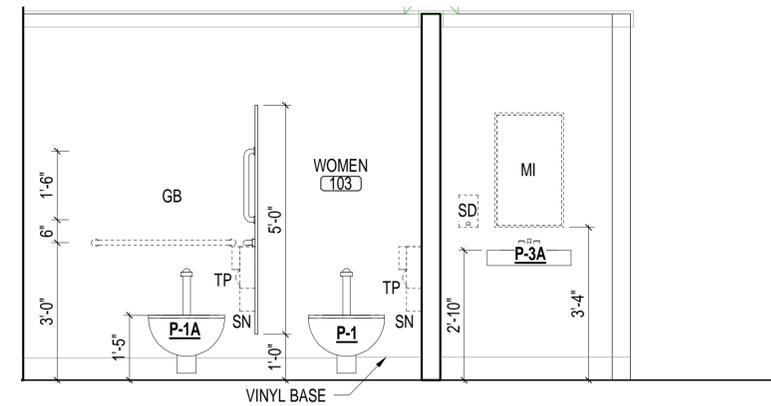
B3 MEN 104 EAST
1/2" = 1'-0"



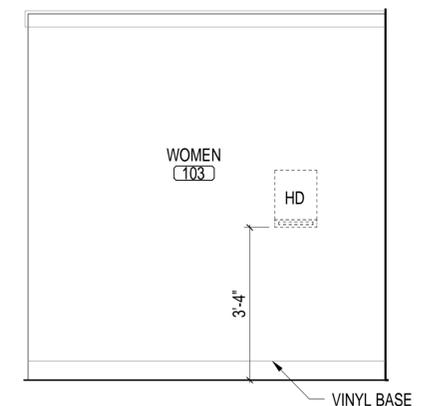
B4 MEN 104 NORTH
1/2" = 1'-0"



A1 WOMEN 103 ENLARGED PLAN
1/2" = 1'-0"



A3 WOMEN 103 WEST
1/2" = 1'-0"



A4 WOMEN 103 NORTH
1/2" = 1'-0"

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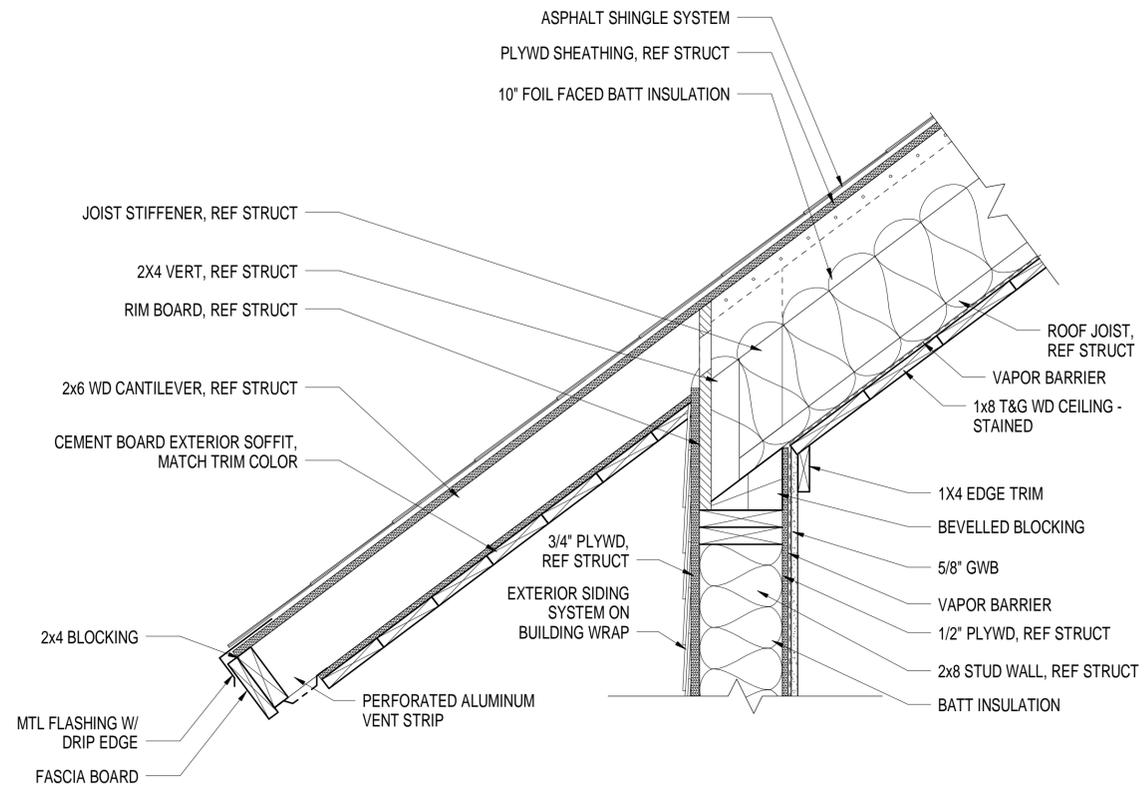
Prepared For:
REGISTERED PROFESSIONAL ARCHITECT
REG. NO. 19881
ERIC C. MONROE
SOUTH DAKOTA
06/11/14

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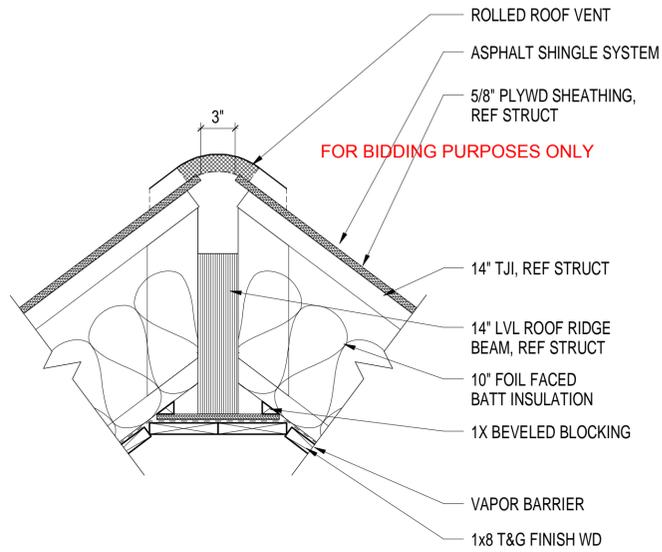
**City of Deadwood
Gateway Parking**

Sheet Title:
A-401
TOILET ROOM
PLANS / INTERIOR
ELEVATIONS /
DETAILS

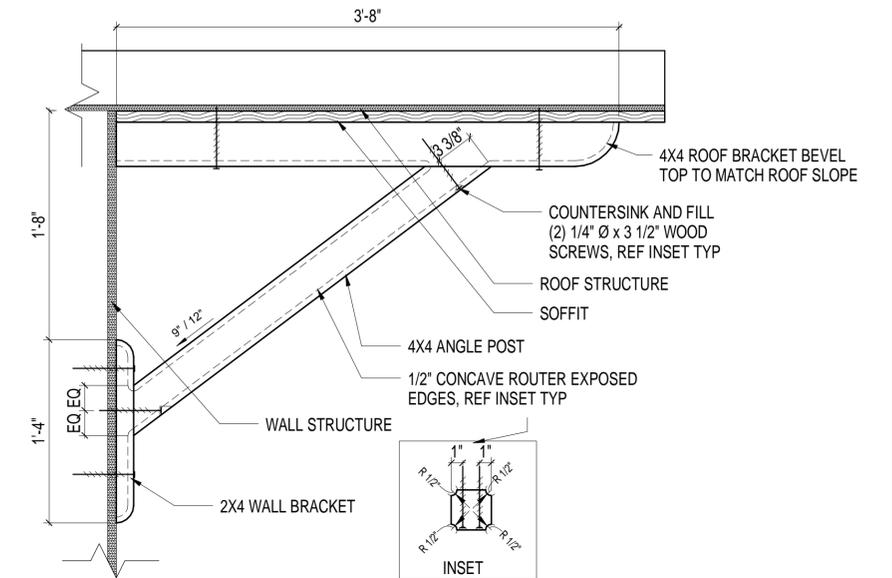
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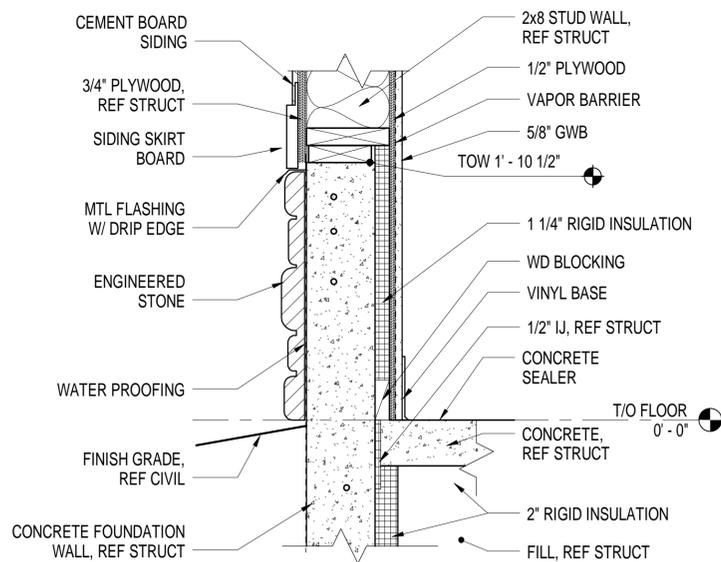
B1 JOIST BEARING / OVERHANG
1 1/2" = 1'-0"



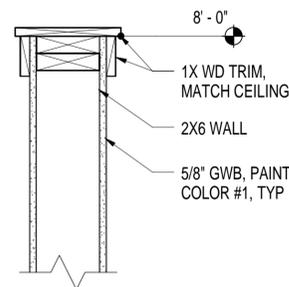
B2 ROOF RIDGE
1 1/2" = 1'-0"



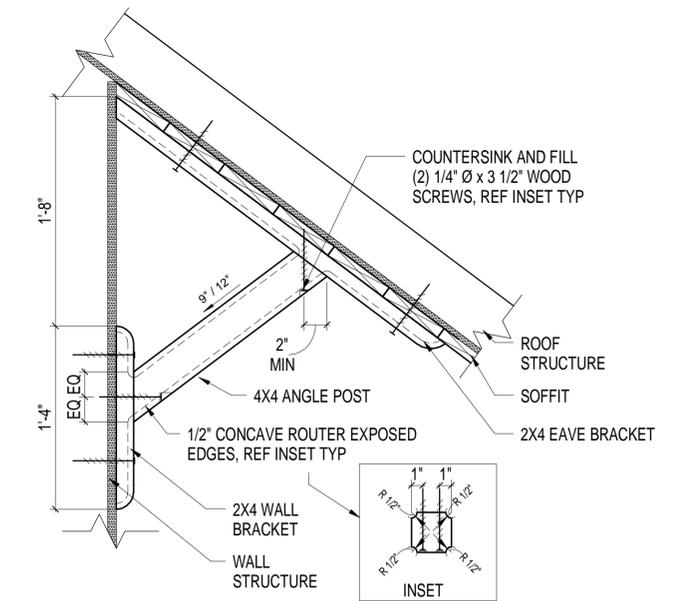
B3 ENDWALL GABLE BRACKET
1 1/2" = 1'-0"



A1 FOUNDATION / EXTERIOR WALL
1 1/2" = 1'-0"



A2 INTERIOR WALL SILL, TYP.
1 1/2" = 1'-0"



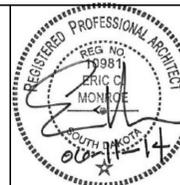
A3 SIDEWALL EAVE BRACKET
1 1/2" = 1'-0"

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**City of Deadwood
Gateway Parking**

Sheet Title:

A-501
ARCHITECTURAL
DETAILS

Sheet:

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of

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GENERAL MECHANICAL NOTES

- MATERIALS AND EQUIPMENT SHOWN ON PLANS SHALL BE NEW AND FURNISHED BY THIS CONTRACTOR UNLESS OTHERWISE INDICATED.
- IN GENERAL, PIPING AND DUCTWORK SHALL BE RUN CONCEALED IN SUSPENDED CEILING SPACES AND IN SHAFTS PROVIDED UNLESS NOTED OR OTHERWISE INDICATED. CERTAIN ROOMS HAVE NO SUSPENDED CEILINGS, AND PIPING AND DUCTWORK IN THESE ROOMS SHALL BE EXPOSED.
- PIPING AND DUCTWORK IS INTENDED TO BE CONCEALED IN WALLS AND PARTITIONS UNLESS SPECIFICALLY NOTED OTHERWISE. SOME ITEMS MAY APPEAR NOT TO BE CONCEALED DUE TO DIGITAL REGISTRATION AND ALIGNMENT ISSUES ASSOCIATED WITH THE DUPLICATION PROCESS.
- COOPERATE WITH THE OTHER TRADES TO AVOID ANY CONFLICTS BETWEEN PIPING, DUCTWORK, ELECTRICAL WORK.
- DETAILS, SCHEMATICS, DIAGRAMS, DESIGNATE GENERAL ARRANGEMENT ONLY.
- FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON FLOOR PLANS, REFER TO ELEVATIONS, DETAILS, RISERS AND SCHEDULES.
- THIS CONTRACTOR IS RESPONSIBLE FOR ALL SLEEVES AND/OR OPENINGS WHERE REQUIRED TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOOR SLABS, WALLS, BRIDGING AND BEAMS EXCEPT WHERE OTHERWISE INDICATED.
- CONSULT REFLECTED CEILING PLAN FOR EXACT LOCATION OF SPRINKLER HEADS, GRILLES, REGISTERS, AND DIFFUSERS.
- CEILING ACCESS IS REQUIRED AT ALL REHEAT COILS, VALVES, FIRE DAMPERS, MANUAL AND MOTORIZED DAMPERS LOCATED ABOVE CEILING. CEILING ACCESS PANELS WILL BE PROVIDED UNDER THE GENERAL SECTION OF CONSTRUCTION AND SHALL BE MINIMUM OF 24" X 24" UNLESS OTHERWISE INDICATED. COORDINATE WITH GENERAL CONTRACTOR.
- THERMOSTATS LOCATED AT OUTSIDE WALLS SHALL BE MOUNTED ON INSULATED BACKING TO MINIMIZE WALL EFFECT.
- THE CONTRACTOR SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY THE A/E IMMEDIATELY OF ANY DISCREPANCIES.
- WHERE NEW SERVICES ARE SHOWN CONNECTING TO EXISTING, VERIFY EXACT LOCATION AND SIZE OF EXISTING.
- EXISTING SERVICES SHALL BE MAINTAINED UNLESS OTHERWISE INDICATED.
- ALL DUCTS, PIPING, FIXTURES, ETC., WHICH ARE DASHED AND/OR INDICATED BY NOTE ON DEMOLITION PLANS SHALL BE REMOVED.
- ALL PLUMBING SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES.
- PIPE RUNOUT SIZES TO REHEAT COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- RECIRCULATING HOT WATER, OXYGEN, VACUUM, AIR, AND GAS SHALL BE 1/2" UNLESS OTHERWISE INDICATED.
- REFER TO THE SPECIFICATIONS FOR SIZING OF STEAM TRAPS.
- REFER TO THE SPECIFICATIONS FOR SIZING OF CONTROL VALVES.
- PLUMBING FIXTURES WHICH ARE SHOWN THAT DO NOT HAVE "P" NUMBERS ARE EXISTING AND SHALL REMAIN UNLESS OTHERWISE INDICATED.
- WALL HYDRANTS ARE TO BE MOUNTED AT 24" ABOVE GRADE.
- DIFFUSERS IN ROOMS WITHOUT FINISHED CEILINGS SHALL BE INSTALLED WITH THE BOTTOM OF THE DIFFUSER AT 9'-0" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED.
- VERIFY DUCT CONNECTIONS SIZES TO POWER ROOF VENTILATORS.
- WHERE SHEET METAL HOUSING, PLENUMS AND DUCTWORK ARE FASTENED TO GENERAL CONSTRUCTION. TAKE SPECIAL CARE TO MAKE AN AIRTIGHT SEAL AT THIS POINT.
- DUCTWORK AND CONNECTIONS BETWEEN THE 4-INCH PRESSURE DUCTWORK AND THE VAV BOXES SHALL BE THE SIZE OF THE BOX INLET. DO NOT USE FLEXIBLE DUCTWORK.
- FLEXIBLE DUCTWORK AND CONNECTIONS BETWEEN THE LOW PRESSURE DUCTWORK AND THE DIFFUSERS SHALL BE THE SIZE OF THE DIFFUSER INLET. CONNECTION TO THE 2-INCH DUCT SHALL BE MADE THROUGH A CONNECTOR DAMPER ASSEMBLY.
- FOR FLEXIBLE DUCTWORK CONNECTIONS, NYLON DUCT STRAPS SHALL BE USED. USE A DUCT STRAP ON INNER DUCT AND ON OUTER INSULATION COVERING.
- BUTTER AND SEAL ALL SHEET METAL DUCTWORK JOINTS.
- WHERE MATERIAL IS INDICATED TO BE REMOVED, IT SHALL REMAIN THE PROPERTY OF THE OWNER. THIS CONTRACTOR SHALL DISPOSE OF MATERIAL AS DIRECTED BY THE OWNER.
- BALANCING OF AIR AND HYDRONIC SYSTEMS SHALL BE PERFORMED BY AN NEBB OR AABC CERTIFIED TEST AND BALANCE AGENCY.
- PIPE PENETRATIONS OF RATED WALLS AND FLOORS SHALL BE SLEEVED AND PROPERLY FIRE SEALED.
- ALL PIPE AND DUCT PENETRATIONS OF SMOKE PARTITION WALLS SHALL BE PROPERLY SEALED TO RESIST THE PASSAGE OF SMOKE AS REQUIRED BY THE LOCAL AUTHORITY.
- INSTALL FLUSH VALVE OPERATORS ON WIDE SIDE OF ACCESSIBLE STALLS.
- THE HEATING AND/OR COOLING HYDRONIC SYSTEM SHALL BE PROVIDED AND FILLED WITH AN ANTIFREEZE GLYCOL SOLUTION (AS INDICATED ON THE EQUIPMENT SCHEDULES) BY THE PIPING CONTRACTOR WHO SHALL BE RESPONSIBLE FOR DETERMINING THE AMOUNT OF GLYCOL REQUIRED.
- GREASE DUCTS: PROVIDE 2" THICK U.L. 2 HOUR FIRE RATED DUCT WRAP ON GREASE DUCTS BETWEEN CEILING AND ROOF PENETRATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE BALANCING DAMPERS WHERE INDICATED. IN ADDITION CONTRACTOR SHALL PROVIDE BALANCING DAMPERS ON DUCT TAKE-OFFS TO DIFFUSERS, GRILLES, AND REGISTERS, REGARDLESS OF WHETHER DAMPERS ARE SPECIFIED AS PART OF THE DIFFUSER, GRILLE, OR REGISTER ASSEMBLY. THE BALANCING DAMPER SHALL BE LOCATED IN THE DUCT IMMEDIATELY AFTER THE DUCT TAKE-OFF AT THE MAIN DUCT CONNECTION.
- SEE SPECIFICATIONS FOR DUCT INSULATION AND DUCT LINER REQUIREMENTS.

HEATING WATER PIPE RUNOUT SCHEDULE	
GPM	PIPE SIZE
0-0.8	1/2"
0.9-2.6	3/4"
2.7-5.5	1"
5.6-9.75	1 1/4"
9.76-15	1 1/2"
15.1-33.0	2"
33.1-60.0	2 1/2"
60.1-95.0	3"
95.1-210.0	4"

ALL RUNOUT PIPING TO EQUIPMENTS SHALL BE SIZED PER THIS SCHEDULE UNLESS OTHERWISE SHOWN ON PLANS

HEATING WATER PIPE RUNOUT SCHEDULE	
GPM	PIPE SIZE
0-3.4	3/4"
3.5-6.5	1"
6.6-14.0	1 1/4"
14.1-21.0	1 1/2"
21.1-40.0	2"

ALL RUNOUT PIPING TO EQUIPMENT SHALL BE SIZED PER THIS SCHEDULE UNLESS OTHERWISE SHOWN ON PLANS

FOR BIDDING PURPOSES ONLY

MECHANICAL SYMBOL LEGEND

SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION	SYMBOL	ABBREV.	DESCRIPTION
	SA	SUPPLY AIR DUCT (UP)		W	SOIL OR WASTE ABOVE GROUND		CS	CONDENSER WATER SUPPLY		FOD	FUEL OIL DISCHARGE
	EA/RA	SUPPLY AIR DUCT (DOWN)		WB	SOIL OR WASTE BELOW GROUND		CR	CONDENSER WATER RETURN		FOR	FUEL OIL RETURN
		ELBOW WITH TURNING VANES		V	VENT PIPING		CWS	CHILLED WATER SUPPLY		FOS	FUEL OIL SUCTION
		COUPLING		CW	DOMESTIC COLD WATER		CWR	CHILLED WATER RETURN		FOV	FUEL OIL TANK VENT
		SOUND ATTENUATOR		HW	DOMESTIC HOT WATER		HWS	HEATING WATER SUPPLY		REF	REFRIGERANT
	VAV	VAV BOXES		TW	TEMPERED WATER		HWR	HEATING WATER RETURN		REFD	REFRIGERANT DISCHARGE
		SUPPLY DIFFUSER		CD	CONDENSATE DRAIN		HWRR	HEATING WATER RETURN REVERSE		RHG	REFRIGERANT HOT GAS
		RETURN DIFFUSER		DE	DEIONIZED WATER		GHS	GLYCOL HOT WATER SUPPLY		RL	REFRIGERANT LIQUID
		RADIANT PANEL		DI	DISTILLED WATER		GHR	GLYCOL HOT WATER RETURN		RS	REFRIGERANT SUCTION
	PRV	POWER ROOF VENTILATOR		G	NATURAL GAS		LPS	LOW PRESSURE STEAM SUPPLY (0-15 PSI)		F	FIRE LINE
	CUH	UNIT HEATERS		G-2LB	NATURAL GAS - 2LB		LPR	LOW PRESSURE STEAM RETURN		DF	DRY FIRE SPRINKLER
		HUMIDISTAT		PRO	PROCESS		MPS	MEDIUM PRESSURE STEAM SUPPLY (15 TO 60 PSI)		GTS	GEO THERMAL SUPPLY
		THERMOSTAT		RD	ROOF DRAIN PIPING		MPR	MEDIUM PRESSURE STEAM RETURN		GTR	GEO THERMAL RETURN
		NIGHT THERMOSTAT		RDB	ROOF DRAIN PIPING BELOW GRADE		HPS	HIGH PRESSURE STEAM SUPPLY (60 PSI & ABOVE)			
		FIN TUBE RADIATION		ORD	OVERFLOW DRAIN PIPING		HPR	HIGH PRESSURE STEAM RETURN			VENT STACK
		ACCESS PANEL		ORDB	OVERFLOW DRAIN PIPING BELOW GRADE						DOWNSPOUT NOZZLE
REG GRILLES & DIFFUSERS				RD	ROOF DRAIN						PIPE BREAK
				C.O.	CLEAN OUT	1. SIDE CONNECTION	13. PIPE ANCHOR	24. PRESSURE TEMPERATURE TAP			END CAP
				FLOOR DRAIN	FLOOR DRAIN	2. ELBOW DOWN	14. PIPE GUIDE	25. MANUAL CALIBRATED BALANCING VALVE			STEAM TRAP BACK FLOW PREVENTER
				WATER METER	GAS METER	3. ELBOW UP	15. CONCENTRIC REDUCER	26. AUTOMATIC FLOW CONTROL VALVE			EXPANSION TANK
				GAS METER	GAS METER	4. SHUT OFF VALVE	16. ECCENTRIC REDUCER	27. MEDICAL GAS OUTLET		S 1	STEAM RISER NO.
				FIRE DEPT. CONNECTION		5. BALANCING VALVE	17. STRAINER	28. HOSE BIBB OR WALL HYDRANT		H 6	RADIATION RISER NO.
				BASE MOUNT PUMP		6. CONTROL VALVE	18. UNION	29. INSERTION FLOW METER		P1 P-601	PLUMBING RISER NO. SHEET DESIGNATOR
				FIRE DEPT. CONNECTION		7. PRESSURE REDUCING VALVE	19. DIRECTION OF FLOW	30. FLOW METER			
				FIRE DEPT. CONNECTION		8. PRESSURE RELIEF VALVE	20. PITCH PIPE DOWN	31. REDUCED PRESSURE BACKFLOW PREVENTER			
				FIRE DEPT. CONNECTION		9. CHECK VALVE	21. 3-WAY CONTROL VALVE	32. AQUASTAT			
				FIRE DEPT. CONNECTION		10. AIR VENT	22. PUMP				
				FIRE DEPT. CONNECTION		11. PRESSURE GAUGE	23. FLOW SWITCH				
				FIRE DEPT. CONNECTION		12. THERMOMETER					

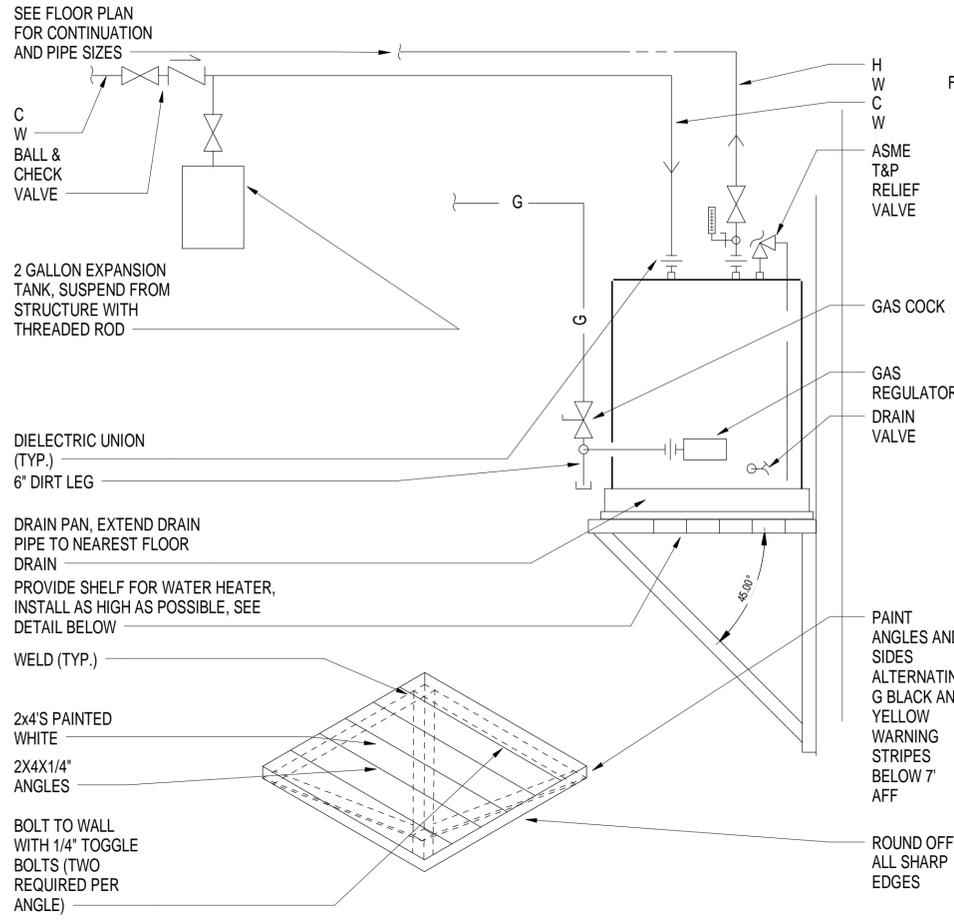
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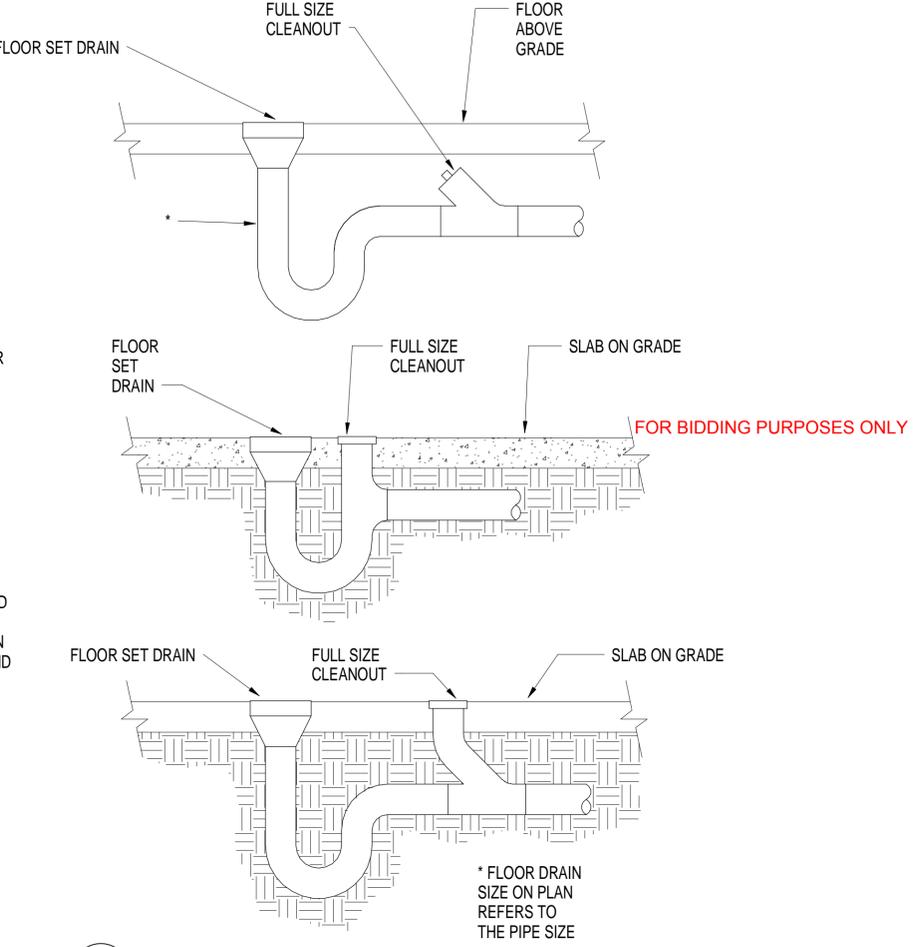
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Drawn By: AS
Design Date: -
Print Date: 06/11/2014
Internal Job No: 03120821.1
Surveyed By: -
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SDDOT Project No: P TAPR(04) PCN 04QE

City of Deadwood Gateway Parking

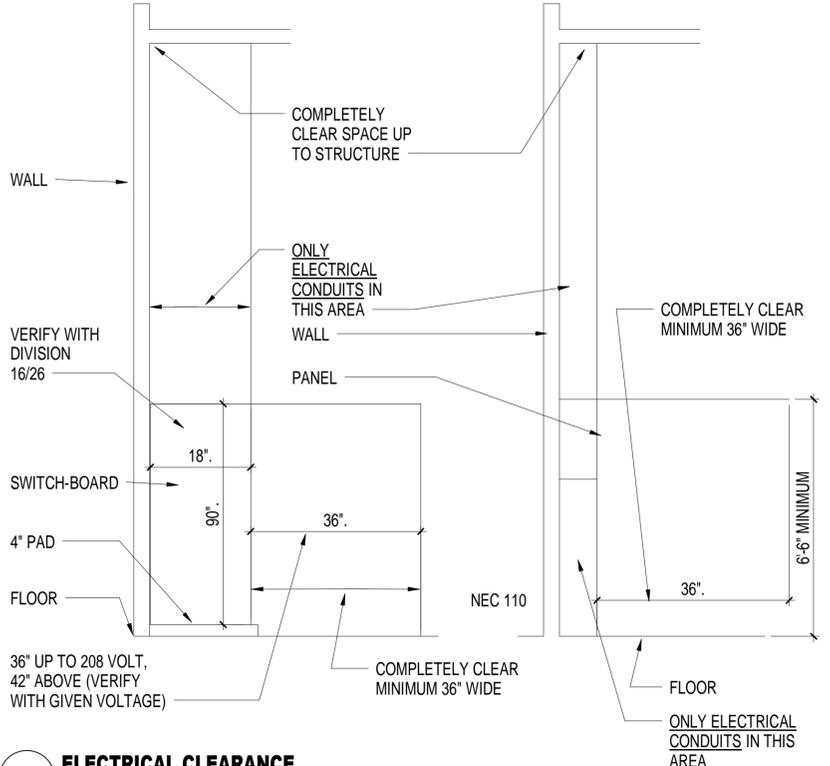
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Sheet: 22 of 29



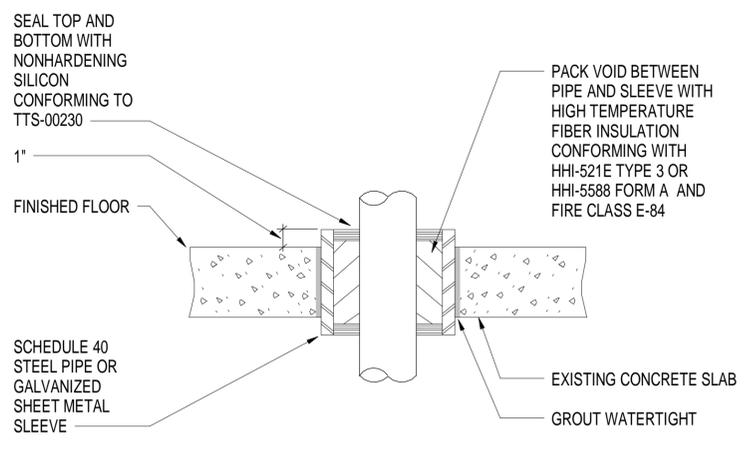
B1 WATER HEATER AND SHELF
1/4" = 1'-0"



B2 FLOOR DRAIN
1/4" = 1'-0"



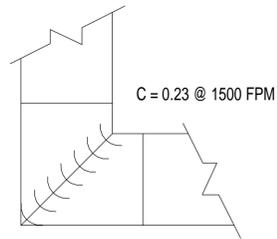
A1 ELECTRICAL CLEARANCE
1/4" = 1'-0"



A2 PIPE SLAB PENETRATION
1/4" = 1'-0"

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			Drawn By: AS
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		6/11/2012	

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Gateway Parking**

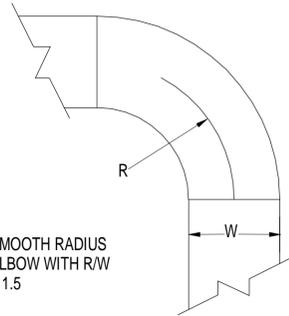


INSTALL LOWEST LOSS FITTING THAT CAN BE ACCOMMODATED WITHIN EACH AVAILABLE SPACE.

COEFFICIENT C DATA FROM SMACNA DUCT DESIGN DATA USING ASPECT RATIOS H/W = 0.25 TO 4/0 RADIUS ELBOWS LESS THAN 90 DEGREES SHALL CONFORM TO THIS DETAIL

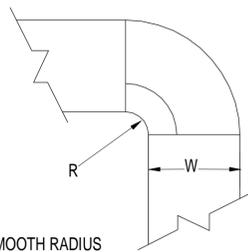
MITERED ELBOW WITH 2" RADIUS SINGLE THICKNESS TURNING VANES 1.5" ON CENTER, DO NOT USE IN HOOD EXHAUST DUCTS

C = 0.14 TO 0.22



SMOOTH RADIUS ELBOW WITH R/W = 1.5

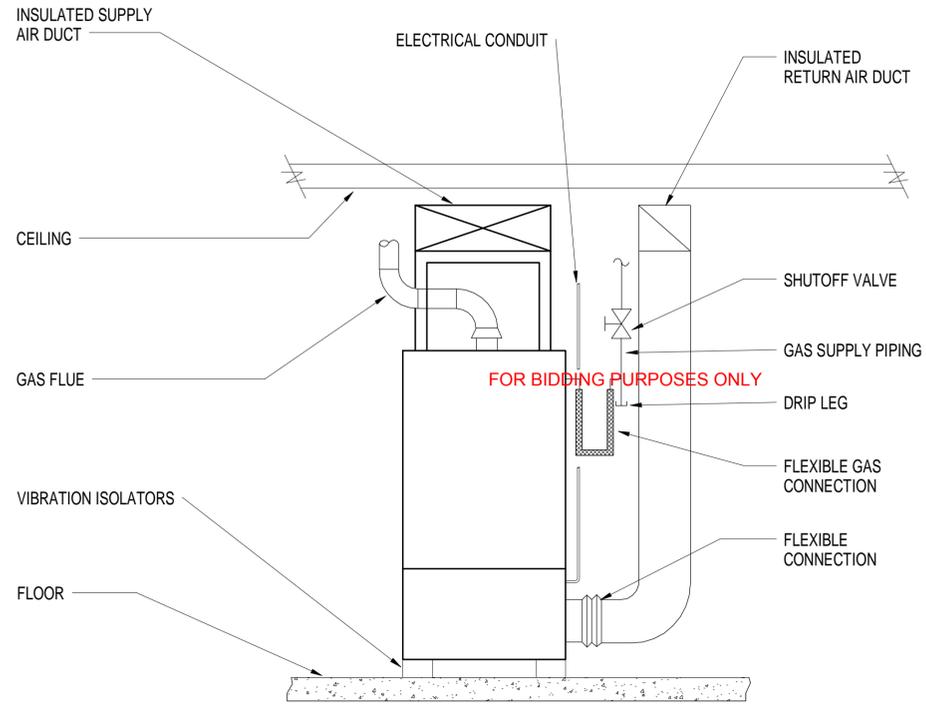
C = 0.04 TO 0.18



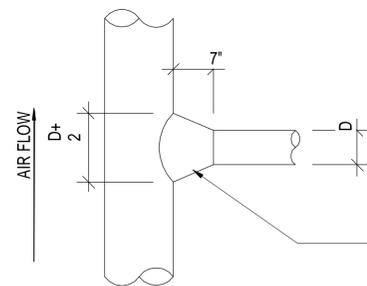
SMOOTH RADIUS ELBOW WITH ONE SMACNA CALCULATED RADIUS SPLITTER VANE R/W = 0.25 TO 0.50

B1 DUCT ELBOWS
1/4" = 1'-0"

B2 FURNACE CONNECTION
1/4" = 1'-0"

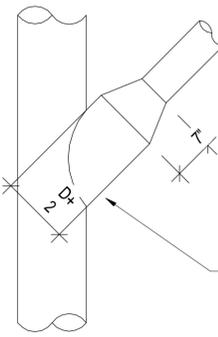


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CONTINUOUS WELD FOR SHOP MADE FITTING

HIGH VELOCITY 90 DEG.



CONTINUOUS WELD FOR SHOP MADE FITTING

HIGH VELOCITY 45 DEG.

A1 CONICAL TAKE-OFF FROM ROUND DUCT
1/4" = 1'-0"

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City of Deadwood
Gateway Parking

Sheet Title:	M-302 MECHANICAL DETAILS
Sheet:	25 of 29

FURNACE SCHEDULE

MECHANICAL REQUIREMENTS																				ELECTRICAL REQUIREMENTS												
FURNACE REQUIREMENTS										DX COOLING REQUIREMENTS										STARTER												
UNIT NO.	LOCATION	MANUFACTURER & MODEL#	TOTAL CFM	MIN. %O.A.	EXT. SP (IN)	FUEL	AFUE % EFF.	RPM	HP	MBH IN	OUT	FILTERS	MODEL	EAT (DEG F) DB/WB	LAT (DEG F) DB/WB	MAXIMUM APD (IN)	LOAD MBH	REFRIG.	MECH REMARKS	VOLT/PH	MIN. CKT. AMP	WIRE SIZE	TYPE	SIZE	LOCATION	CNTRL. DVC.	AUX.	BY	CONTROL	DISCONNECT TYPE	BY	ELEC REMARKS
F-1	MECH	TRANE TUH1B080	1200	10	0.5	NG	95	1750	3/4	80	72	TA	--	80	55	0	36	R410A	1,2	120/1	12.75	#12	INTEGRAL	-	-	-	-	DIV 22/23	DIV 22/23	NOTE E1	DIV 26	NOTE E1

MECH REMARKS:

- 1 MATCH DX COIL WITH CU
- 2 PROVIDE EXHAUST AND CA PIPING AND TERMINATION KIT AS PER MFG INSTALLATION REQUIREMENTS.

ELEC REMARKS:

- E1. PROVIDE A MOTOR RATED TOGGLE SWITCH.

ENERGY RECOVERY UNIT SCHEDULE

MECHANICAL REQUIREMENTS																				ELECTRICAL REQUIREMENTS															
GENERAL INFORMATION					SUPPLY FAN					EXHAUST FAN					HEAT EXCHANGER					STARTER															
UNIT NO.	SERVES	MANUFACTURER & MODEL#	SUPPLY CFM	EXT. S.P.	TTL S.P.	RPM	H.P.	EXHAUST CFM	EXT. S.P.	TTL S.P.	RPM	H.P.	O.A. CFM	O.A. EFF (%)	E.A. EFF (%)	WINTER R.A. EAT	WINTER O.A. EAT	WINTER S.A. LAT	SUMMER R.A. EAT	SUMMER O.A. EAT	SUMMER S.A. LAT	MECH REMARKS	VOLT/PH	MIN. CKT. AMP	WIRE SIZE	TYPE	SIZE	LOCATION	CNTRL. DVC.	AUX.	BY	CONTROL	DISCONNECT TYPE	BY	ELEC REMARKS
ERU-1	F-1	RENEW AIRE HE1XINH	600	0.5		1250	0.75	600	0.5		1250	0.75	600	65	65	70	0	55	-	-	-	1,2,3,4	240/1	10.1	#12	INTEGRAL	-	-	-	-	DIV 22/23	DIV 22/23	INTEGRAL	DIV 22/23	

MECH REMARKS:

- 1. PROVIDE UNIT WITH A SINGLE POINT POWER CONNECTION, AND A DOOR INTERLOCKING DISCONNECT SWITCH.
- 2. PROVIDE UNIT WITH AN INTERNALLY MOUNTED CONTROL CENTER WITH MOTOR STARTERS, 24 VAC CONTROL TRANSFORMER, AND CONTROL CIRCUIT FUSING.
- 3. UNIT SHALL HAVE SIDE DUCT CONNECTIONS FOR ALL DUCTWORK.
- 4. PROVIDE UNIT WITH INTEGRAL ELECTRICAL DISCONNECT.

ELEC REMARKS:

- E1.

AIR COOLED CONDENSING UNIT SCHEDULE

MECHANICAL REQUIREMENTS															FOR BIDDING PURPOSES ONLY										ELECTRICAL REQUIREMENTS									
UNIT NO.	SERVES	MANUFACTURER & MODEL#	COOLING CAP. MBH	TONS	MCA	AMB. TEMP. (DEG. F)	SUCT. TEMP. (DEG. F)	SEER	COND. FAN(S)	HP	REFRIGERANT TYPE	MECH REMARKS	VOLT/PH	MIN. CKT. AMP	WIRE SIZE	TYPE	SIZE	LOCATION	CNTRL. DVC.	AUX.	BY	CONTROL	DISCONNECT TYPE	BY	ELEC REMARKS									
CU-1	F-1	TRANE 4TTX6036E	36	3	14	95	45	16	1	1/8	R410A	1	240/1	22	#8	INTEGRAL	-	-	-	-	DIV 22/23	DIV 22/23	NFD	DIV 26	NOTE E1									

MECH REMARKS:

- 1 MATCH WITH DX COIL
- 2 PROVIDE 4" CONCRETE PAD

ELEC REMARKS:

- E1. PROVIDE A 60A, NON-FUSED DISCONNECT IN NEMA 3R ENCLOSURE.

MECHANICAL REQUIREMENTS															ELECTRICAL REQUIREMENTS									
UNIT NO.	MANUFACTURER & MODEL NO.	STORAGE CAP. (GAL)	RECOVERY RATE (GPH) @ 100 DEG F RISE	ELEMENT WATTAGE	MECH REMARKS	VOLT/PH	MIN. CKT. AMP	WIRE SIZE	TYPE	SIZE	LOCATION	CNTRL. DVC.	AUX.	BY	CONTROL	DISCONNECT TYPE	BY	ELEC REMARKS						
WH-1	AO SMITH EJC-10	10	8	3000	1,2	240/1	15.63	#12	INTEGRAL	-	-	-	-	DIV 22/23	DIV 22/23	-	-	NOTE E1						

MECH REMARKS:

- 1. SHELF MOUNTED UNIT.
- 2. PROVIDE DRAIN PAN.

ELEC REMARKS:

- E1. CIRCUIT BREAKER IN PANEL P1, DIRECTLY VISIBLE FROM WH-1, SHALL SERVE AS DISCONNECTING MEANS.

DIFFUSER, REGISTER & GRILLE SCHEDULE

MECHANICAL REQUIREMENTS											
TYPE NO.	SERVICE	MANUFACTURER & MODEL NO.	FACE SIZE	MOUNTING TYPE	PATTERN	MAXIMUM NC	MAXIMUM PD (" WG)	INTEGRAL DAMPER	FINISH COLOR	MATERIAL	MECH REMARKS
S1	DUCT SUPPLY	KRUEGER 4880	14x6	DUCT	DOUBLE DEFLECTION LEFT AND RIGHT	25	0.05	---	WHITE	STEEL	
S2	DUCT SUPPLY	KRUEGER 4880	6x6	DUCT	DOUBLE DEFLECTION LEFT AND RIGHT	25	0.05	---	WHITE	STEEL	
R1	WALL RETURN	KRUEGER EGC15	16 X 16	SURFACE	FIXED DEFLECTION 35 DEGREE BLADE DOWN	20	0.02	---	WHITE	ALUM	
E-1	DUCT EXHAUST	KRUEGER S585	12X10	DUCT	FIXED DEFLECTION 0 DEGREE BLADE	20	0.02	---	WHITE	ALUM	

MECH REMARKS:

- 1

LOUVER SCHEDULE

MECHANICAL REQUIREMENTS											
DESIG	LOCATION	MANUFACT. DESIG.	*CFM	MAX APD IN W.G.	SIZE WIDTH HEIGHT	FREE AREA SF	FRAME STYLE	CONST.	FINISH	ACCESSORIES	MECH REMARKS
L-1	--	LOUVERS & DAMPERS IEL6	600	0.1	24 18	1.2	NO FLANGE	ALUM	STD COLOR SELECT	--	1
L-2	--	LOUVERS & DAMPERS IEL6	600	0.1	24 18	1.2	NO FLANGE	ALUM	STD COLOR SELECT	--	1

*ALL LOUVERS SHALL BE AMCA CERTIFIED FOR ALL PERFORMANCE AND WATER PENETRATION. MAX. WATER PENETRATION SHALL BE LESS THAN .01 OZ./SQ.FT. FREE AREA FOR INTAKE LOUVERS.

MECH REMARKS

- 1. PROVIDE STD COLOR SELECTION

PLUMBING FIXTURE SCHEDULE

FIX. #	TYPE	MANUFACTURER'S DESCRIPTION	C.W.	H.W.	W.	V.	HEIGHT
P-1	WATER CLOSET	FIXTURE: AMER. STD. "AFWALL" VITREOUS CHINA, WALL HUNG, ELONGATED BOWL, SIPHON JET, 1 1/2" TOP SPUD, AND SUITABLE CARRIER. VALVE: SLOAN G2-OPTIMA-8111, SENSOR OPERATED, 1.6 GAL FLUSH. SEAT: BENEKE 527 SS WHITE, OPEN FRONT, LESS COVER, WITH SELF-SUSTAINING CHECK HINGE. ACCESSORY: BOLT CAPS.	1"	--	4"	2"	14" TO RIM
P-1A	ADA COMPLIANT WATER CLOSET	FIXTURE: AMER. STD. "AFWALL" VITREOUS CHINA, WALL HUNG, ELONGATED BOWL, SIPHON JET, 1 1/2" TOP SPUD, AND SUITABLE CARRIER. VALVE: SLOAN G2-OPTIMA-8111, SENSOR OPERATED, 1.6 GAL FLUSH. SEAT: BENEKE 527 SS WHITE, OPEN FRONT, LESS COVER, WITH SELF-SUSTAINING CHECK HINGE. ACCESSORY: BOLT CAPS.	1"	--	4"	2"	18" TO RIM
P-2A	ADA COMPLIANT URINAL	FIXTURE: AMER. STD. "TRIMBROOK" VITREOUS CHINA, SIPHON JET, 3/4" TOP SPUD, 2" OUTLET, PROVIDE URINAL CARRIER WITH SUPPORT PLATES AND RECTANGULAR STEEL UPRIGHTS. VALVE: SLOAN G2-OPTIMA-8111, SENSOR OPERATED, 1. GAL FLUSH.	1"	--	2"	1 1/2"	17" TO RIM
P-3A	ADA COMPLIANT WALL HUNG LAV	FIXTURE: AMER. STD. "LUCERNE", 20" X 18", VITREOUS CHINA, BACK SPLASH, FRONT OVERFLOW, CONCEALED ARMS WITH CARRIER. FAUCET: SLOAN EBF-650, SENSOR OPERATED FAUCET, WITH 1/2 GPM FLOW RESTRICTOR/AERATOR, BATTERY POWERED. ACCESSORY: 1 1/4" P-TRAP, PERFORATED STRAINER, CHROME SUPPLIES & STOPS.	1/2"	1/2"	2"	1 1/2"	34" TO RIM
P-4B	MOP SINK	FIXTURE: FIAT MSB-2424, 24" X 24" X 10" HIGH, MOLDED STONE. FAUCET: CHICAGO 897, VACUUM BREAKER, PAIL HOOK, HOSE END SPOUT, WALL BRACKET. STRAINER: DOME TYPE WITH LINT BASKET OF NO. 302 STAINLESS STEEL, COMPRESSION GASKET OR LEAD CAULK JOINT. ACCESSORY: VINYL BUMPER GUARD ON EXPOSED SIDES, NO. 832-AA HOSE AND BRACKET, NO. 889-CC MOP HANGER.	3/4"	3/4"	3"	1 1/2"	36" TO FAUCET
P-6A	ADA COMPLIANT SPLIT LEVEL WATER COOLER WALL MOUNTED	FIXTURE: ELKAY EZSTLR-8-C, TYPE 304 STAINLESS STEEL RECEPTOR, FLEXI-GUARD BUBBLER, SIDE & FRONT PUSH BUTTON CONTROLS, AUTO-STREAM PRESS REGULATOR, STAINLESS STEEL APRON. CAPACITY: 8.0 GPH AT 90° AMBIENT, 80° EWT, 50° LWT. ELECTRICAL: 3.7 AMPS, 120V, OUTLET CONCEALED BEHIND CABINET. COLOR: COLOR SELECTED BY ARCHITECT.	1/2"	--	2"	1 1/2"	36" TO H.C. SPOUT
P-20A	WALL HYDRANT FREEZELESS	FIXTURE: WOODFORD MODEL 67 WITH VACUUM BREAKER, FREEZELESS, CHROME FINISH, BRASS CASTING, .S.S. STEM, 3/8" ROD, BRASS VALVE WITH HEMISPHERICAL SEAT, LOOSE KEY, FLUSH INSTALL.	3/4"	--	--	--	24" ABOVE GRADE
P-21	WALL HYDRANT	FIXTURE: WOODFORD MODEL 75 WITH VACUUM BREAKER, CLOSE COUPLED, CHROME FINISH, BRASS CASTING, BRASS VALVE WITH HEMISPHERICAL SEAT, LOOSE KEY, FLUSH INSTALL.	3/4"	--	--	--	24" ABOVE FINISH FLOOR
FD-1	FLOOR DRAIN	FIXTURE: SMITH 2010-A, CAST IRON WITH NICKEL BRONZE ADJUST. STRAINER, 1/4" SQUARE HEEL PROOF HOLES, 2 PIECE BODY/FLASHING COLLAR CLAMP, AND P-TRAP.	--	--	2"	1 1/2"	

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City of Deadwood Gateway Parking

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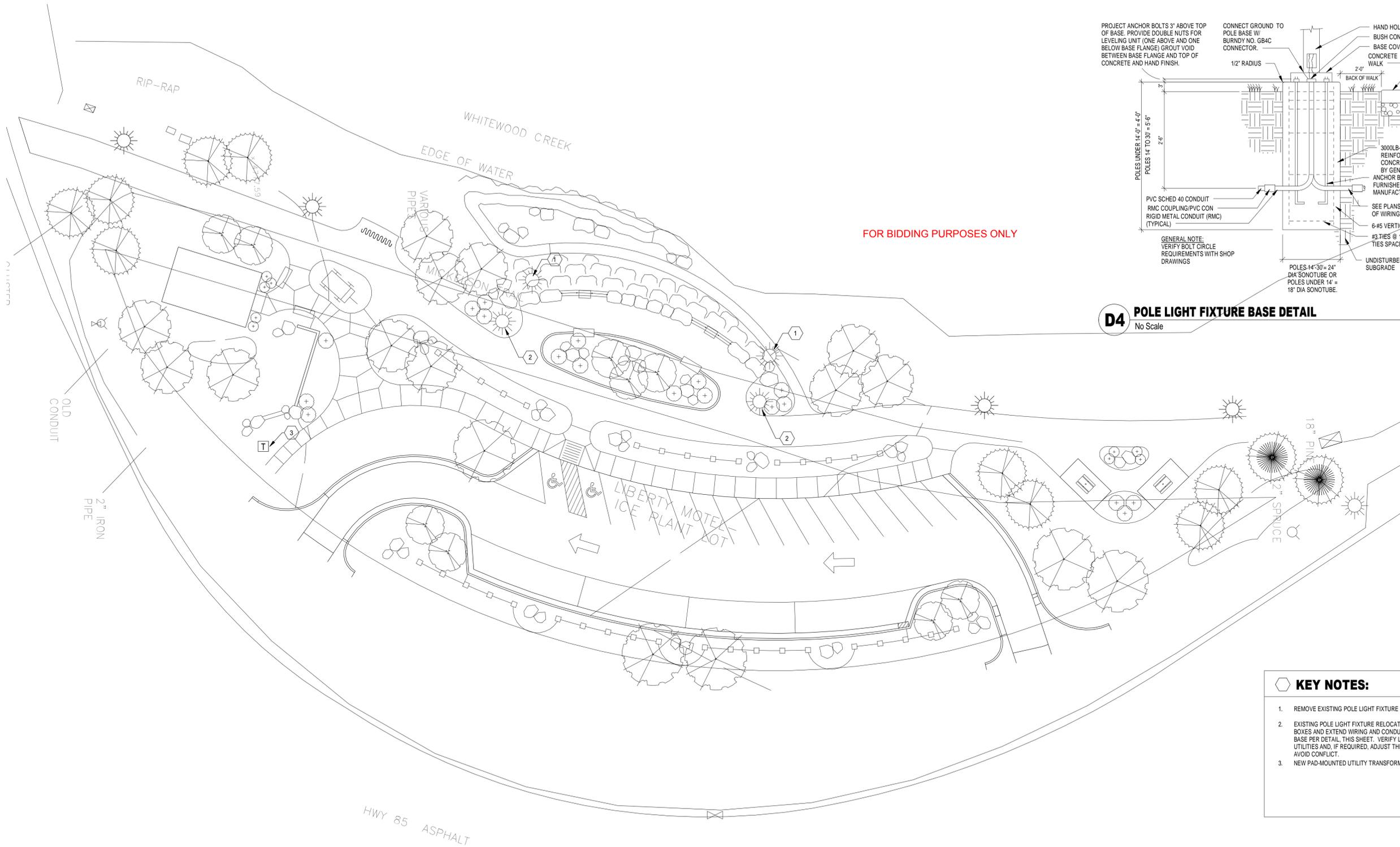
ME601 MECHANICAL SCHEDULES

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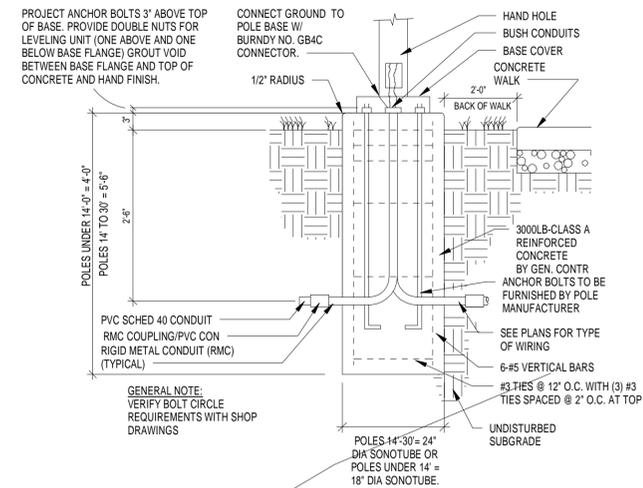
26

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29



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D4 POLE LIGHT FIXTURE BASE DETAIL
No Scale

- KEY NOTES:**
1. REMOVE EXISTING POLE LIGHT FIXTURE AND RELOCATE.
 2. EXISTING POLE LIGHT FIXTURE RELOCATED AS SHOWN. PROVIDE IN-GRADE JUNCTION BOXES AND EXTEND WIRING AND CONDUIT AS REQUIRED. INSTALL ON CONCRETE BASE PER DETAIL, THIS SHEET. VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES AND, IF REQUIRED, ADJUST THE LOCATION OF THE LIGHT POLE BASES TO AVOID CONFLICT.
 3. NEW PAD-MOUNTED UTILITY TRANSFORMER.

A1 ELECTRICAL SITE PLAN
1" = 20'-0"



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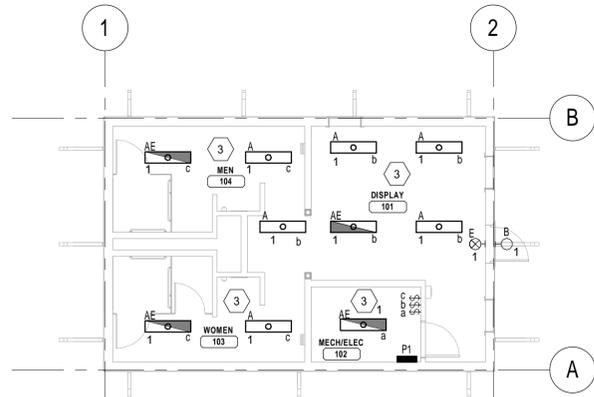


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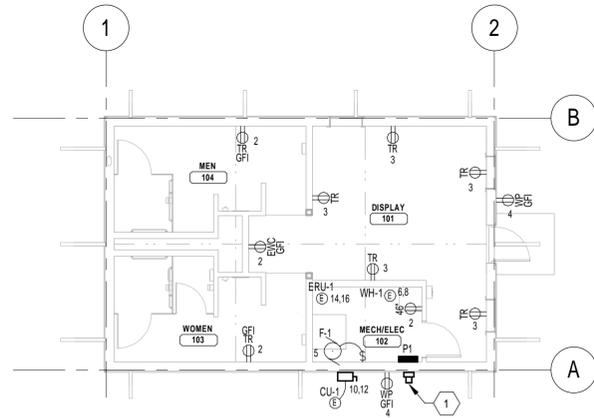
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Internal Job No: 03120821.1	
Surveyed By: -	Survey Date: -
SDDOT Project No: P TAPR(04) PCN 04QE	

City of Deadwood Gateway Parking



C1 LIGHTING PLAN
1/8" = 1'-0"

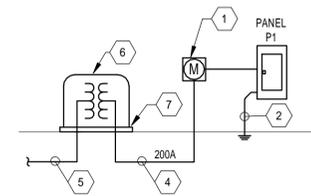


C2 POWER PLAN
1/8" = 1'-0"

FOR BIDDING PURPOSES ONLY

KEY NOTES:

1. PROVIDE UTILITY METER SOCKET AS REQUIRED BY ELECTRIC UTILITY.
2. PROVIDE GROUNDING PER NEC, ELECTRICAL SPECIFICATIONS, AND DETAIL A3/E-101.
3. LIGHT FIXTURES SHALL BE SURFACE MOUNTED TO ANGLED CEILING STRUCTURE. COORDINATE INSTALLATION WITH DUCTWORK, PIPING, ETC. TO AVOID CONFLICT.
4. NEW SERVICE ENTRANCE CONDUCTORS. COORDINATE INSTALLATION WITH ELECTRIC UTILITY.
5. PRIMARY FEEDER BY ELECTRIC UTILITY.
6. NEW PAD-MOUNTED UTILITY TRANSFORMER.
7. PROVIDE PAD AS REQUIRED BY ELECTRIC UTILITY.



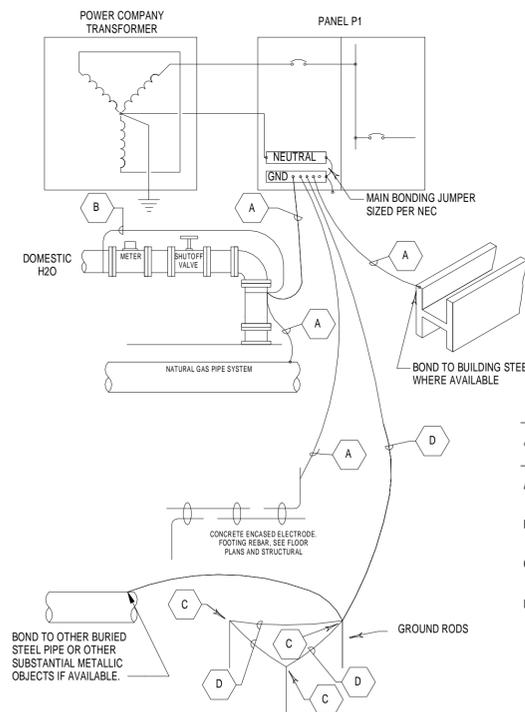
C4 POWER RISER DIAGRAM
No Scale

LIGHT FIXTURE SCHEDULE										
FXIT TYPE	MANUFACTURER	CATALOG NUMBERS	VOLTAGE	MOUNTING	BALLAST QTY	LAMP DATA			REMARKS	ADDITIONAL MANUFACTURERS
						TYPE	No.	WATTS		
A	KENALL	MLHA1248MS-R-MW-PP-232-RS-1-120	120	SURFACE/CEIL	1	FLU	2	32	4', 2-LAMP HIGH ABUSE, INTEGRAL OCCUPANCY SENSOR	SUBMIT FOR APPROVED EQUAL
AE	KENALL	MLHA1248MS-R-MW-PP-232-RS-1-120-EL	120	SURFACE/CEIL	2	FLU	2	32	4', 2-LAMP HIGH ABUSE, INTEGRAL OCCUPANCY SENSOR; INTEGRAL BATTERY	SUBMIT FOR APPROVED EQUAL
B	MCGRAW EDISON	IST-B01-LED-E1-BL4-BZ-P-TR	120	SURFACE/WALL	-	LED	-	-	INTEGRAL PHOTOCELL	SUBMIT FOR APPROVED EQUAL
E	KENALL	METSW-MW-R-DT-EL	120	SURFACE/WALL	-	LED	-	-	WALL MOUNT LED EXIT SIGN	SUBMIT FOR APPROVED EQUAL

MARK (AMPACITY)	CIRCUIT SCHEDULE		
	SERVICE CONDUCTORS PHIN-C	4-WIRE (W/NEUTRAL) PHIN-GND-C	3-WIRE (NO NEUTRAL) PH-GND-C
15	12-3/4"	12-12-3/4"	12-12-3/4"
20	12-3/4"	12-12-3/4"	12-12-3/4"
25	10-3/4"	10-10-3/4"	10-10-3/4"
30	10-3/4"	10-10-3/4"	10-10-3/4"
35	8-1"	8-10-1"	8-10-3/4"
40	8-1"	8-10-1"	8-10-3/4"
45	6-1 1/4"	6-10-1 1/4"	6-10-1"
50	6-1 1/4"	6-10-1 1/4"	6-10-1"
60	6-1 1/4"	6-10-1 1/4"	6-10-1"
70	4-1 1/2"	4-8-1 1/2"	4-8-1 1/4"
80	3-1 1/2"	3-8-1 1/2"	3-8-1 1/2"
90	3-1 1/2"	3-8-1 1/2"	3-8-1 1/2"
100	2-1 1/2"	2-8-1 1/2"	2-8-1 1/2"
110	2-1 1/2"	2-6-1 1/2"	2-6-1 1/2"
125	1-2"	1-6-2"	1-6-1 1/2"
150	1/0-2"	1/0-6-2"	1/0-6-2"
175	2/0-2"	2/0-6-2"	2/0-6-2"
200	3/0-2 1/2"	3/0-6-2 1/2"	3/0-6-2"
225	4/0-2 1/2"	4/0-4-2 1/2"	4/0-4-2 1/2"

- MISCELLANEOUS NOTES:**
1. ALL CIRCUITS (BRANCH, FEEDERS, AND SERVICE) SHALL BE SIZED PER THE OVERCURRENT DEVICE AND THIS CIRCUIT SCHEDULE UNLESS OTHERWISE NOTED. THE ABOVE CHART IS THE MINIMUM CONDUCTOR AND CONDUIT SIZE FOR THE OVERCURRENT DEVICE. CHART DOES NOT INCLUDE REQUIRED VOLTAGE DROP.
 2. CIRCUITS SHALL BE 4 WIRE (4W) UNLESS DENOTED WITH "3W" (3 WIRE) OR IS THE SERVICE ENTRANCE FROM THE UTILITY.
 3. ALL BRANCH CIRCUITS AND FEEDERS SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR.
 4. ALL CONDUCTORS SHALL BE COPPER.
 5. THE NEUTRAL SHALL BE THE SAME SIZE AS THE PHASE CONDUCTORS UNLESS 3-WIRE, OR NOTED OTHERWISE.
 6. THE NUMBER OF PARALLEL SETS IS INDICATED IN PARENTHESIS.
 7. SINGLE PHASE CIRCUITS SHALL BE SIZED PER THE OVERCURRENT DEVICE UNLESS OTHERWISE NOTED. SIZE THE CONDUCTORS AND CONDUIT PER THE 4-WIRE COLUMN OF THIS CHART BUT REDUCE THE AMOUNT OF PHASE CONDUCTORS AS REQUIRED.

PANEL TAG: P1											
MOUNTING: SURFACE					VOLTAGE: 120/240 VAC, 1-PHASE, 3-WIRE						
FEEDER: SEE RISER DIAGRAM					MAINS: LUG [] C.B. [X] AMPS:200						
PANEL TYPE: LIGHTING & APPLIANCE					FEED THRU LUG []						
					MIN. A.I.C.: 7892 (A)						
CKT	ITEM OR AREA SERVED	O/C PROT	DIST KVA	P	DIST KVA	O/C PROT	ITEM OR AREA SERVED	CKT			
1	LIGHTING	20/1	1.0	A	0.7	20/1	REC - TOILETS, MECH	2			
3	REC - DISPLAY	20/1	0.9	C	0.4	20/1	REC - EXTERIOR	4			
5	FURNACE	20/1	1.2	A	1.5		WATER HEATER	6			
7	SPARE	20/1	0.0	C	1.5	20/2		8			
9	SPARE	20/1	0.0	A	2.6			10			
11	SPARE	20/1	0.0	C	2.6	35/2	CONDENSING UNIT CU-1	12			
13	SPARE	20/1	0.0	A	1.2			14			
15	SPARE	20/1	0.0	C	1.2	15/2	ERU-1	16			
17	SPACE		0.0	A	0.0		SPACE	18			
19	SPACE		0.0	C	0.0		SPACE	20			
21	SPACE		0.0	A	0.0		SPACE	22			
23	SPACE		0.0	C	0.0		SPACE	24			
25	SPACE		0.0	A	0.0		SPACE	26			
27	SPACE		0.0	C	0.0		SPACE	28			
29	SPACE		0.0	A	0.0		SPACE	30			
TOTAL CONNECTED LOAD (KVA)			14.9								
TOTAL DEMAND LOAD (KVA)			16.8		* DENOTES CIRCUIT BREAKER WITH INTEGRAL 4-6mA GFCI.						
FEEDER AMPERES DEMAND			69.9								



KEYNOTES:

- A. GROUNDING ELECTRODE CONDUCTOR TO GROUNDING ELECTRODE, AS SHOWN. SIZE PER NEC TABLE 250.66.
- B. BOND WATER SYSTEMS AROUND ALL VALVES AND METERS PER NEC.
- C. CONNECT GROUNDING ELECTRODE CONDUCTOR TO GROUND ROD WITH GROUND CONNECTOR.
- D. #6 AWG BARE COPPER CONDUCTOR.

A3 GROUNDING DETAIL
No Scale



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www.teamtsp.com

Prepared For: _____
Scale: 1/8" = 1'-0"
Designed By: DLB
Design Date: -
Internal Job No: 03120821.1
Surveyed By: -
SDDOT Project No: P TAPR(04) PCN 04QE

Drawn By: JNK
Print Date: 06/11/2014
Survey Date: -

City of Deadwood Gateway Parking

Sheet Title: **E-101 ELECTRICAL PLAN**
Sheet: **29** of **29**

GENERAL NOTES

Construction Phasing and Sequencing:

Fall of 2014 to Spring of 2015 Phase:

1. The Contractor shall remove the trees and shrubs and install silt fence as per the Grading and Drainage Plan.
2. The Contractor shall install F.E.S., 42.5' of RCP and median inlet from DOT Hwy 85 Sta. 14+28.38- 458.87'L to Sta. 14+78.93- 106.42'L while maintaining the Mickelson Trail for Public use and safety.
3. The Contractor shall: construct the Mickelson Trail re-alignment from DOT Hwy 85 Sta. 14+66.59-115.12'L to Sta. 18+17.65- 113.00'L, install construction fence on the east side of the existing Mickelson trail from DOT HWY 85 Sta. 13+46.47- 26.52'L to Sta. 19+92.46- 58.28'L and maintain the existing trail for Public use and safety.
4. Upon completion of item 2, the existing trail from DOT Hwy 85 Sta. 14+66.59- 115.12'L to Sta. 18+17.65-113.00'L shall be abandoned and construction fencing shall be installed on the east and west sides of the Mickelson Trail from DOT Hwy 85 Sta. 13+46.47- 26.52l to Sta. 19+12.46- 58.28'L including the newly realigned section. During this step, minor grading changes in the Mickelson Trail from Hwy 85 Sta. 14+66.59- 115.12'L will need to occur. Public use of the trail must be maintained throughout the construction.
5. The Contractor shall construct the Viewing Area.
6. Additional work that may be completed during this phase, weather permitting include: installation of the utilities for the new restroom building, demolition for and excavation for the new restroom building.
7. Remaining pavements shall not be removed during this phase. This area will be used as a lay-down area for the DOT Hwy 85 Reconstruction Project beginning in the Spring of 2015.

Summer 2016 Phase

The Contractor shall perform the remaining work for this project as the DOT Hwy 85 project progresses through this area. Coordination and sequencing shall be with the DOT project.

INCIDENTAL WORK, GRADING

Incidental work, grading, shall include all miscellaneous items not included in the regular items covered by unit prices listed in the proposal and shown on the drawings, but which must be performed in order to properly complete the work.

The items and work listed below are to be included in the "Incidental Work, Grading" item, but the list does not limit the scope to only those items. The Contractor shall include those items that may be specific to his/her construction procedures.

Dust control

Obtain permits as needed

Excavation, grading, or embankment necessary to complete the work for the re-alignment of the Mickelson Trail

SPECIAL SIDEWALK

The Contractor's unit price bid for "Special Sidewalk" shall include all labor, materials, and equipment necessary to construct the double sided thickened edge sidewalk shown on the drawings.

ASPHALT CONCRETE COMPOSITE

Mineral aggregate for the Asphalt Concrete Composite shall conform to the requirements for Class E, Type 1.

All other requirements in the Standard Specifications for Asphalt Concrete Composite shall apply.

The asphalt binder used in the mixture shall be PG 64-22 or PG 64-28 Asphalt Binder.

COMMITMENT D: WATER QUALITY STANDARDS

The Whitewood Creek is classified as a cold water marginal fish propagation waters with a total suspended solids standard of 90 milligrams/liter.

Action Taken/Required:

The Contractor is advised the South Dakota Surface Water Quality Standards, administered by the Department of Environment and Natural Resources (DENR), apply to this project. Special construction measures shall be taken to ensure the above standard(s) of the surface waters are maintained and protected.

COMMITMENT E: STORM WATER

Construction activities constitute less than 1 acre of disturbance.

Action Taken/Required:

At a minimum and regardless of project size, appropriate erosion and sediment control measures must be installed to control the discharge of pollutants from the construction site. **FOR BIDDING PURPOSES ONLY**

COMMITMENT H: WASTE DISPOSAL SITE

The Contractor shall furnish a site(s) for the disposal of construction and/or demolition debris generated by this project.

Action Taken/Required:

Construction and/or demolition debris may be disposed of within the State ROW. **OR** Construction and/or demolition debris may not be disposed of within the State ROW.

The waste disposal site(s) shall be managed and reclaimed in accordance with the following from the General Permit for Highway, Road, and Railway Construction/Demolition Debris Disposal Under the South Dakota Waste Management Program issued by the Department of Environment and Natural Resources.

The waste disposal site(s) shall not be located in a wetland, within 200 feet of surface water, or in an area that adversely affects wildlife, recreation, aesthetic value of an area, or any threatened or endangered species, as approved by the Project Engineer.

If the waste disposal site(s) is located such that it is within view of any ROW, the following additional requirements shall apply:

1. Construction and/or demolition debris consisting of concrete, asphalt concrete, or other similar materials shall be buried in a trench completely separate from wood debris. The final cover over the construction and/or demolition debris shall consist of a minimum of 1 foot of soil capable of supporting vegetation. Waste disposal sites provided outside of the State ROW shall be seeded in accordance with Natural Resources Conservation Service recommendations. The seeding recommendations may be obtained through the appropriate County NRCS Office. The Contractor shall control the access to waste disposal sites not within the State ROW through the use of fences, gates, and placement of a sign or signs at the entrance to the site stating "No Dumping Allowed".

2. Concrete and asphalt concrete debris may be stockpiled within view of the ROW for a period of time not to exceed the duration of the project. Prior to project completion, the waste shall be removed from view of the ROW or buried and the waste disposal site reclaimed as noted above.

The above requirements will not apply to waste disposal sites that are covered by an individual solid waste permit as specified in SDCL 34A-6-58, SDCL 34A-6-1.13, and ARSD 74:27:10:06.

Failure to comply with the requirements stated above may result in civil penalties in accordance with South Dakota Solid Waste Law, SDCL 34A-6-1.31.

All costs associated with furnishing waste disposal site(s), disposing of waste, maintaining control of access (fence, gates, and signs), and reclamation of the waste disposal site(s) shall be incidental to the various contract items.

ENVIRONMENTAL COMMITMENTS

COMMITMENT I: HISTORICAL PRESERVATION OFFICE CLEARANCES

The SDDOT has obtained concurrence with the State Historical Preservation Office (SHPO or THPO) for all work included within the project limits and all designated option borrow sites provided within the plans.

Action Taken/Required:

All earth disturbing activities not designated within the plans require review of cultural resources impacts. This work includes, but is not limited to: staging areas, borrow sites, waste disposal sites, and all material processing sites.

The Contractor shall arrange and pay for a cultural resource survey and/or records search. The Contractor has the option to contact the state Archaeological Research Center (ARC) at 605-394-1936 or another qualified archaeologist, to obtain either a records search or a cultural resources survey. A record search might be sufficient for review; however, a cultural resources survey may need to be conducted by a qualified archaeologist.

The Contractor shall provide ARC with the following: a topographical map or aerial view on which the site is clearly outlined, site dimensions, project number, and PCN. If applicable, provide evidence that the site has been previously disturbed by farming, mining, or construction activities with a landowner statement that artifacts have not been found on the site.

The Contractor shall submit the records search or cultural resources survey report and if the location of the site is within the current geographical or historic boundaries of any South Dakota reservation to SDDOT Environmental Engineer, 700 East Broadway Avenue, Pierre, SD 57501-2586 (605-773-3180). SDDOT will submit the information to the appropriate SHPO/THPO. Allow **30 Days** from the date this information is submitted to the Environmental Engineer for SHPO/THPO review.

If evidence for cultural resources is uncovered during project construction activities, then such activities shall cease and the Project Engineer shall be immediately notified. The Project Engineer will contact the SDDOT Environmental Engineer in order to determine an appropriate course of action.

SHPO/THPO review does not relieve the Contractor of the responsibility for obtaining any additional permits and clearances for staging areas, borrow sites, waste disposal sites, or material processing sites that affect wetlands, threatened and endangered species, or waterways. The Contractor shall provide the required permits and clearances to the Project Engineer at the preconstruction meeting.

COMMITMENT P: COORDINATION WITH STATE ARCHAEOLOGICAL RESEARCH CENTER

Action Taken/Required:

Contractor will contact SARC (605) 394-1936 before construction begins to ensure that a qualified archaeologist is on site during excavation activities on the project.

Prepared By:  TSP, Inc. 600 Kansas City St. Rapid City, SD 57701 phone: (605) 343-6102 fax: (605) 343-7159 www.teamtsp.com	Prepared For:	 Scale: SCALE Designed By: DESIGNED BY Drawn By: DRAWN BY Design Date: . Print Date: 05/02/2014 Internal Job No: 03120821.1 Surveyed By: . Survey Date: . SDDOT Project No: P TAPR(04) PCN 040E DATE: 6/13/2014	City of Deadwood Gateway Parking	Sheet Title: GENERAL NOTES AND ENVIRONMENTAL COMMITMENTS	Sheet: 3 of 29
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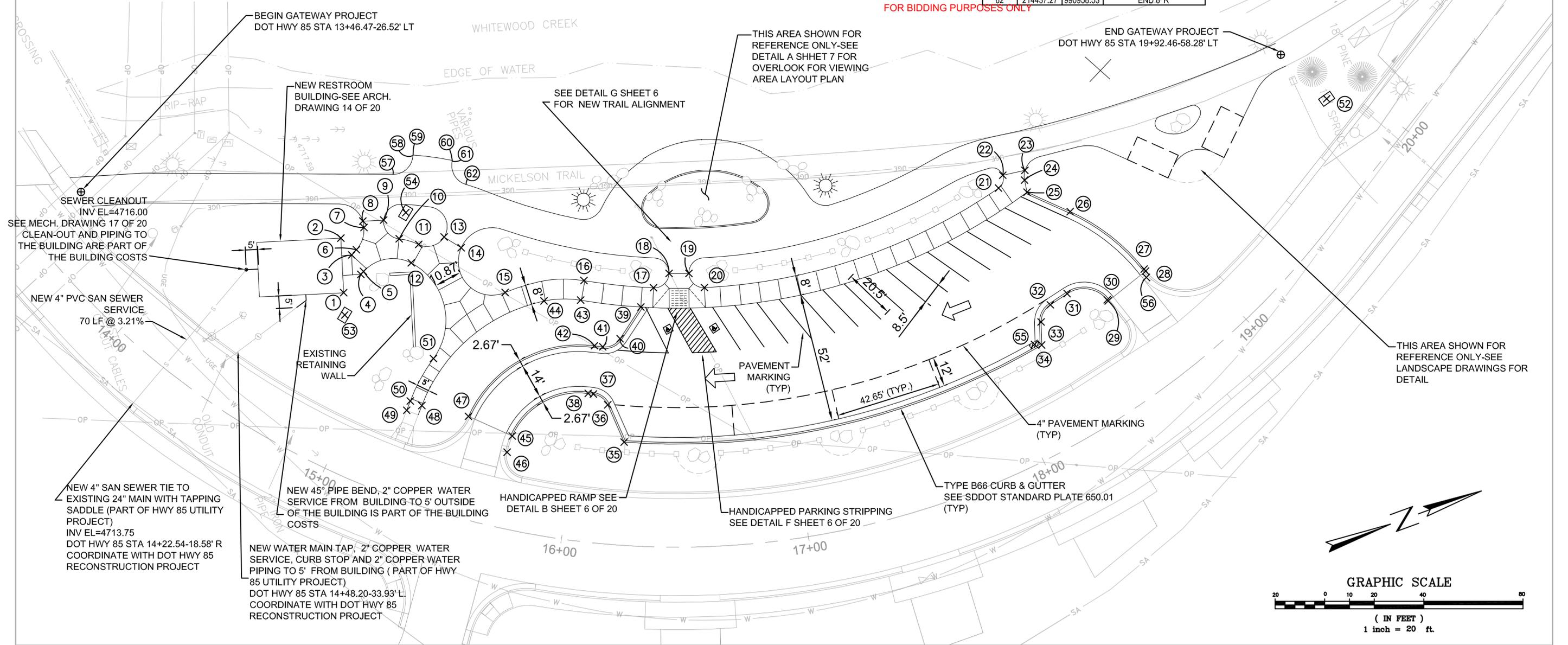
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1	214375.99	990982.61	BLDG CORNER
2	214382.48	990961.58	BLDG CORNER
3	214384.24	990969.45	PI
4	214385.05	990978.07	PI
5	214386.45	990977.33	BEGIN 16' R
6	214386.76	990968.12	BEGIN 12' R
7	214392.70	990960.77	END 12' R BEGIN 10' R
8	214393.14	990958.21	END 10' R
9	214401.17	990960.68	BEGIN 6.9' R
10	214404.44	990969.90	END 10' R BEGIN 24' R
11	214412.46	990975.83	END 24' R BEGIN 8' R
12	214405.72	990980.66	END 16' R BEGIN 26' R
13	214421.78	990975.43	END 8' R
14	214426.73	990981.61	BEGIN 13.6' R
15	214437.26	991004.80	END 13.6' R BEGIN 75.74' R

POINT #	NORTHING	EASTING	DESC.
16	214468.77	991011.17	END 75.74' R BEGIN 228.83' R
17	214492.16	991023.51	END 228.83' R BEGIN 6' R
18	214501.99	991020.23	END 6' R
19	214509.53	991022.96	BEGIN 6' R
20	214513.48	991030.47	END 6' R BEGIN 228.83' R
21	214638.63	991033.43	END 228.83' R BEGIN 4.5' R
22	214642.01	991029.14	BEGIN 4.5' R
23	214651.08	991030.35	BEGIN 8' R
24	214649.57	991033.99	PT
25	214648.86	991038.89	PI
26	214662.54	991052.17	BEGIN 80' R
27	214682.67	991084.12	PT
28	214682.98	991085.07	PI-STA 18+81.73-41.51' LT
29	214664.65	991091.22	PI-STA 18+59.64-41.51' LT
30	214664.44	991090.61	BEGIN 12' R

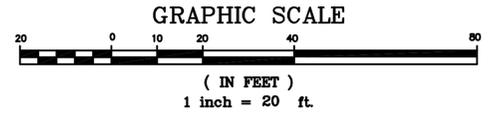
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31	214650.11	991082.79	PT
32	214642.19	991084.68	BEGIN 8' R
33	214636.35	991089.93	PT
34	214633.39	991098.71	BEGIN 291.49' R
35	214461.78	991077.79	END 291.49' R
36	214460.68	991061.43	BEGIN 7.33' R
37	214456.70	991055.39	END 7.33' R
38	214454.83	991054.43	BEGIN 29.33' R
39	214486.69	991029.04	PI
40	214474.44	991038.15	BEGIN 7.33' R
41	214466.76	991038.82	END 7.33' R
42	214463.77	991037.28	BEGIN 48.66' R
43	214464.83	991018.14	END 236.83' R BEGIN 40' R
44	214450.78	991013.37	END 40' R BEGIN 67.74' R
45	214420.20	991060.03	END 29.33' R

POINT #	NORTHING	EASTING	DESC.
46	214416.01	991065.46	PI
47	214406.31	991046.59	END 48.66' R
48	214390.11	991036.04	END 67.74' R
49	214383.71	991035.79	PI
50	214386.33	991032.77	END 72.74' R BEGIN 26' R
51	214400.97	991019.88	PRC
52	214775.30	991044.93	MEDIAN INLET
53	214373.35	990991.21	MEDIAN INLET
54	214410.57	990960.91	MEDIAN INLET
55	214630.74	991097.48	TYPE B INLET
56	214682.40	991087.56	TYPE B INLET
57	214411.03	990944.67	BEGIN 8' R
58	214421.14	990940.37	END 8' R
59	214421.25	990940.11	BEGIN 108' R
60	214435.40	990947.59	END 108' R
61	214435.24	990947.84	BEGIN 8' R
62	214437.27	990958.53	END 8' R

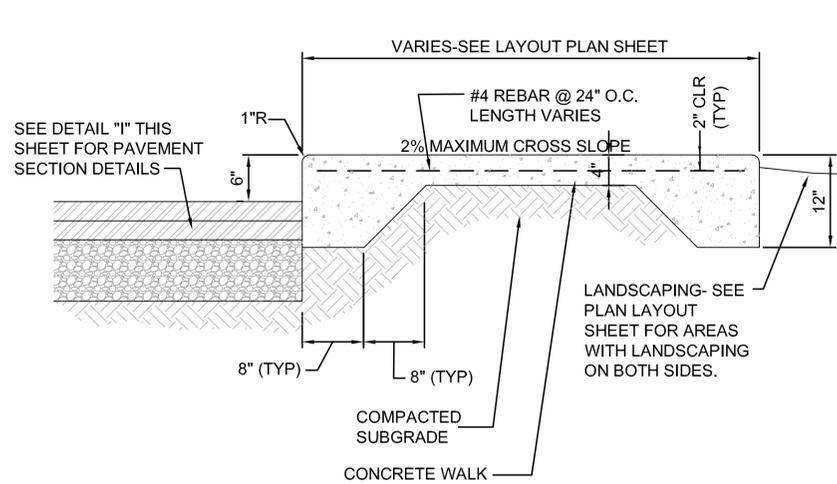
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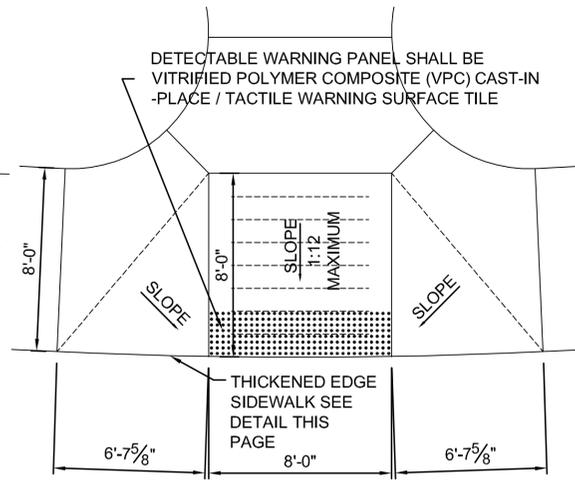
FOR BIDDING PURPOSES ONLY



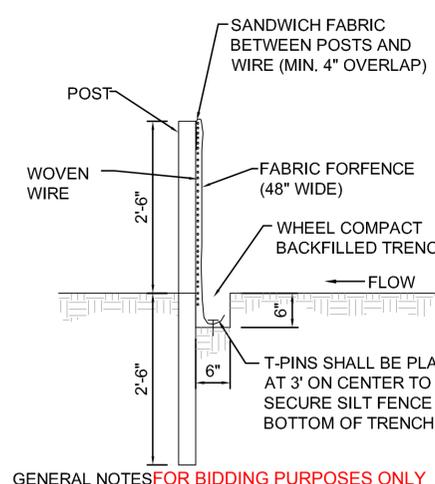
Prepared By:  TSP, Inc. 600 Kansas City St. Rapid City, SD 57701 phone: (605) 343-6102 fax: (605) 343-7159 www.teamtsp.com	Designed By: Drawn By: Design Date: Print Date: Internal Job No: Surveyed By: Survey Date:	Scale: SCALE SDDOT Project No. P TAPR(04) PCN 04QE	City of Deadwood Gateway Parking	Sheet Title: LAYOUT PLAN	Sheet: 5 of 29
				DATE: 9/13/2014	



A THICKENED EDGE SIDEWALK
NOT TO SCALE



B HANDICAPPED RAMP
NOT TO SCALE



GENERAL NOTES FOR BIDDING PURPOSES ONLY

- THE WOVEN WIRE SHALL BE:
1. MINIMUM OF 32" WIDE.
 2. MINIMUM 14-1/2 GA.
 3. MESH OPENING, 8 HORIZONTAL WIRES WITH 6" OR 12" SPACING OF VERTICAL STAY WIRES.
- THE POSTS USED SHALL BE:
1. STEEL T LINE POSTS - 5' MINIMUM LENGTH.
 2. WOOD POSTS - 5' MINIMUM LENGTH AND 3" DIAMETER.
 3. POST SPACING SHALL BE 6' MAX., AROUND PIPE INLET AREAS, POST SPACING SHALL BE 3' MAX.
1. SILT FENCE IS A VERTICAL BARRIER OF FABRIC SUPPORTED BY WOVEN WIRE. SEDIMENT LADEN WATER IS DIVERTED THROUGH THE SILT FENCE WHICH RETAINS A PERCENTAGE OF THE SEDIMENT AND ALLOWS MOST OF THE WATER AND SOME OF THE SEDIMENT TO PASS THROUGH.
 2. THE "APPARENT OPENING SIZE" AOS IS A DESIGNATION THAT DETERMINES THE PERMEABILITY OF THE FABRIC, AS THE AOS INCREASES THE OPENING SIZE DECREASES eg. AN AOS OF 70 WILL TRAP MORE THAN 90% OF SEDIMENT RUNOFF. USE FABRIC WITH AN AOS OF 20-50.
 3. ATTACH FABRIC WITH HOG RINGS AT 12" MIN. HORIZONTAL SPACING ON THE TOP AND BOTTOM WIRES OF THE WOVEN WIRE AND WITH STAPLES OR WIRE TIES AT 12" MIN. VERTICAL SPACING ON THE POSTS.
 4. THE MANUFACTURER SHALL CERTIFY THAT THE SILT FENCE FURNISHED IS:
 - a. WOVEN GEOTEXTILE FOR USE AS SILT FENCE.
 - b. UV TREATED TO LAST A MINIMUM OF TWO YEARS. ASTM D 4355.500 H (C) 70% MIN.
 - c. HAS A GRAB STRENGTH OF 90 POUNDS MINIMUM.
 - d. MEETS THE AOS DESIGNATION, SPECIFIED ABOVE.

H SILT FENCE
NOT TO SCALE

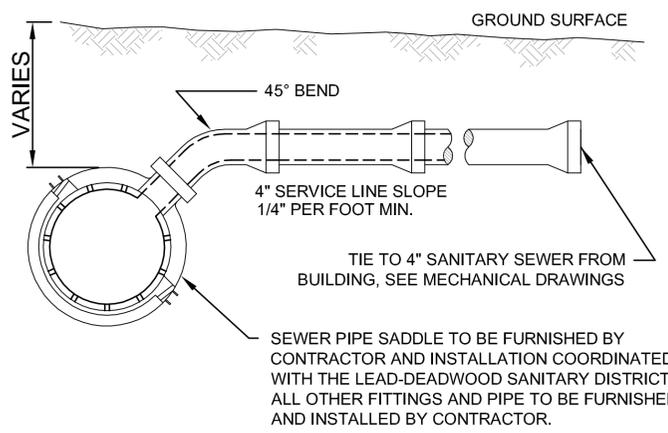
The stated radii on the plans and cross sections refer to this line and it shall also be the basis for horizontal linear foot measurement and payment.

Type	T ₁ (Inches)	T ₂ (Inches)	Cu. Yd. Per Lin. Ft.	Lin. Ft. Per Cu. Yd.
B66	6	5 ¹ / ₂	0.057	17.7
B67	7	6 ¹ / ₂	0.065	15.4
B68	8	7 ¹ / ₂	0.073	13.7
B68.5	8.5	7 ³ / ₄	0.077	13.0
B69	9	8 ¹ / ₂	0.081	12.3
B69.5	9.5	8 ³ / ₄	0.085	11.7
B70	10	9 ¹ / ₂	0.090	11.2
B70.5	10.5	9 ³ / ₄	0.094	10.7
B71	11	10 ¹ / ₂	0.098	10.2
B71.5	11.5	10 ³ / ₄	0.102	9.8
B72	12	11 ¹ / ₂	0.106	9.4

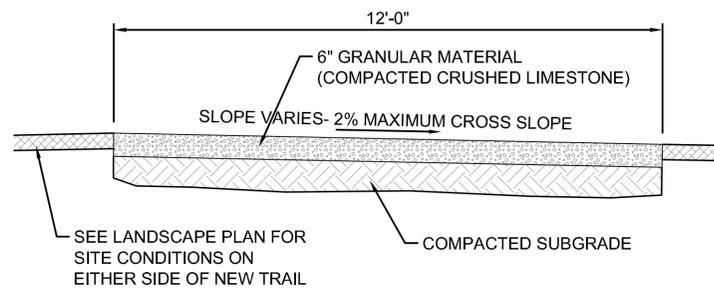
GENERAL NOTES:
When concrete curb and gutter longitudinally adjoins new concrete pavement, the method of attachment shall be one of the methods shown on Standard Plate 380.11.
See Standard Plate 650.90 for expansion and contraction joints in the curb and gutter.

September 6, 2008
Published Date: 1st Qtr. 2014
SDDOT
TYPE B CONCRETE CURB AND GUTTER
PLATE NUMBER 650.01
Sheet 1 of 1

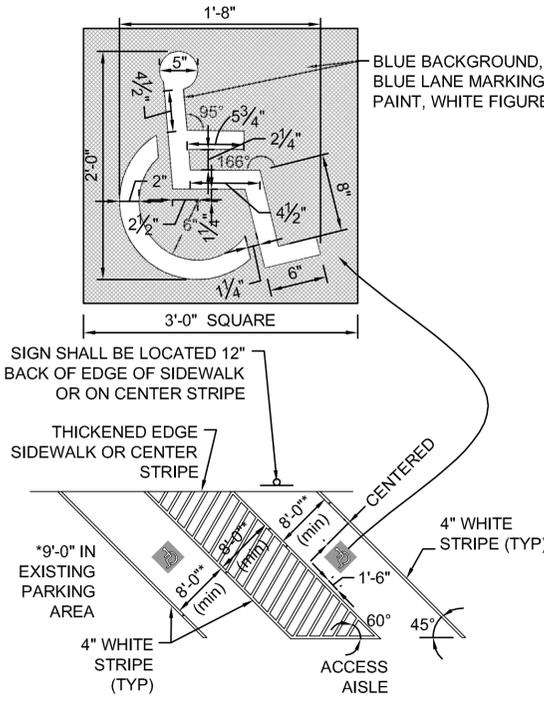
E TYPE B CONCRETE CURB AND GUTTER
NOT TO SCALE



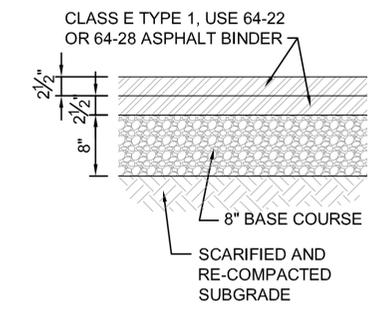
C SANITARY SEWER SERVICE TIE-IN
NOT TO SCALE



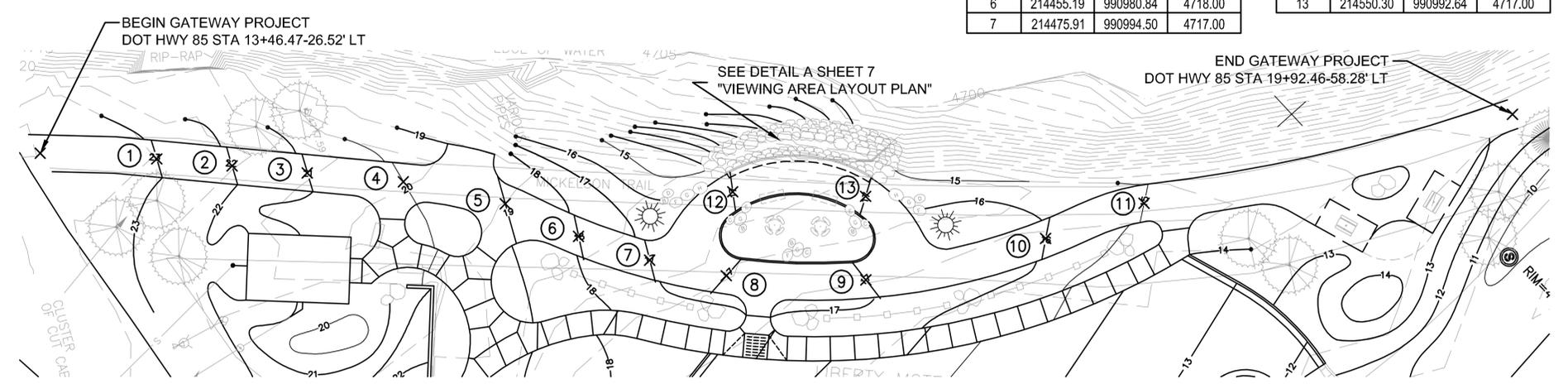
D NEW TRAIL - TYPICAL SECTION
NOT TO SCALE



F DISABLED PARKING SYMBOL AND STRIPING
NOT TO SCALE



I PAVEMENT SECTION
NOT TO SCALE



G NEW TRAIL - CENTERLINE HORIZONTAL AND VERTICAL ALIGNMENT
NOT TO SCALE

POINT #	NORTHING	EASTING	ELEVATION
1	214327.08	990920.07	4723.00
2	214350.53	990928.73	4722.00
3	214373.98	990937.39	4721.00
4	214404.07	990949.03	4720.00
5	214434.58	990964.15	4719.00
6	214455.19	990980.84	4718.00
7	214475.91	990994.50	4717.00

POINT #	NORTHING	EASTING	ELEVATION
8	214499.04	991006.00	4717.00
9	214543.29	991019.25	4717.00
10	214604.23	991021.45	4716.00
11	214638.67	991018.68	4715.00
12	214508.26	990979.82	4717.00
13	214550.30	990992.64	4717.00

Prepared By: TSP, Inc. 600 Kansas City St. Rapid City, SD 57701 phone: (605) 343-6102 fax: (605) 343-7159 www.teamtsp.com

Prepared For:

Scale: SCALE

Designed By: DESIGNED BY Drawn By: DRAWN BY

Design Date: Print Date: 05/02/2014

Internal Job No: 03120821.1 Surveyed By: Survey Date:

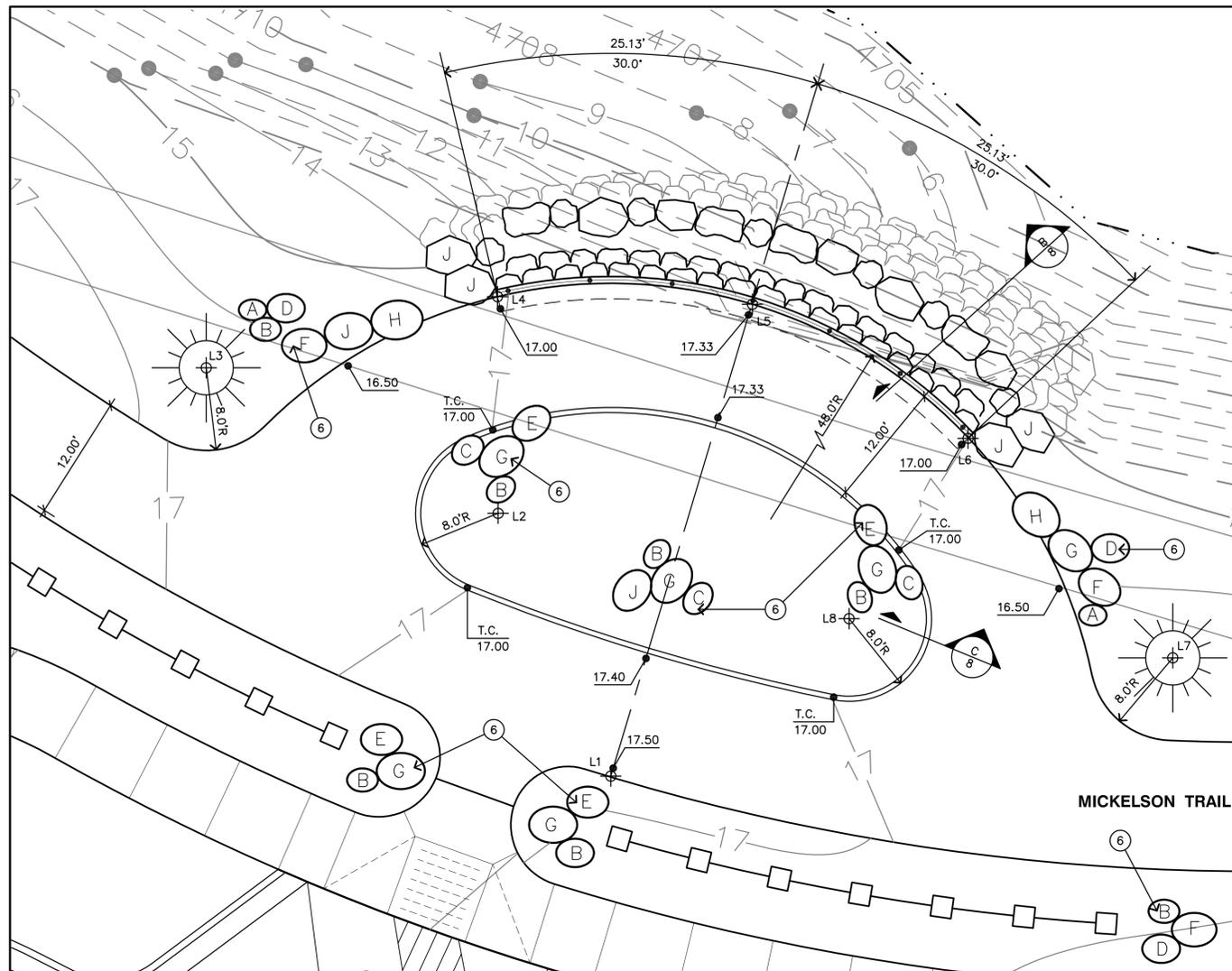
SDDOT Project No: P TAPR(04) PCN 040E

City of Deadwood Gateway Parking

Sheet Title: SITE DETAILS

Sheet: 7 of 28

DATE: 6/13/2014



A VIEWING AREA LAYOUT PLAN
SCALE: 1/8"=1'-0"

VIEWING AREA LAYOUT PLAN



ESTIMATE OF QUANTITIES FOR RETAINING WALL

ITEM	UNIT	QUANTITY
CLASS A45 CONCRETE, MISCELLANEOUS	CuYd	10.2
REINFORCING STEEL	LB	398
STRUCTURE EXCAVATION, RETAINING WALL	CuYd	56
SPECIAL STEEL RAILING	Ft	50
STONE FACING	SqFt	520
GRANULAR BACKFILL FOR MSE SEGMENTAL BLOCK WALL	Ton	15
BASE COURSE	Ton	20

COORDINATE DATA

POINT NO.	X		Y	
	EAST-WEST	NORTH-SOUTH	EAST-WEST	NORTH-SOUTH
L1	991020.03	214518.95		
L2	990994.61	214508.02		
L3	990980.53	214479.73		
L4	990973.64	214507.96		
L5	990974.38	214532.69		
L6	990987.35	214553.59		
L7	991008.59	214573.44		
L8	991004.80	214542.05		

KEY NOTE:

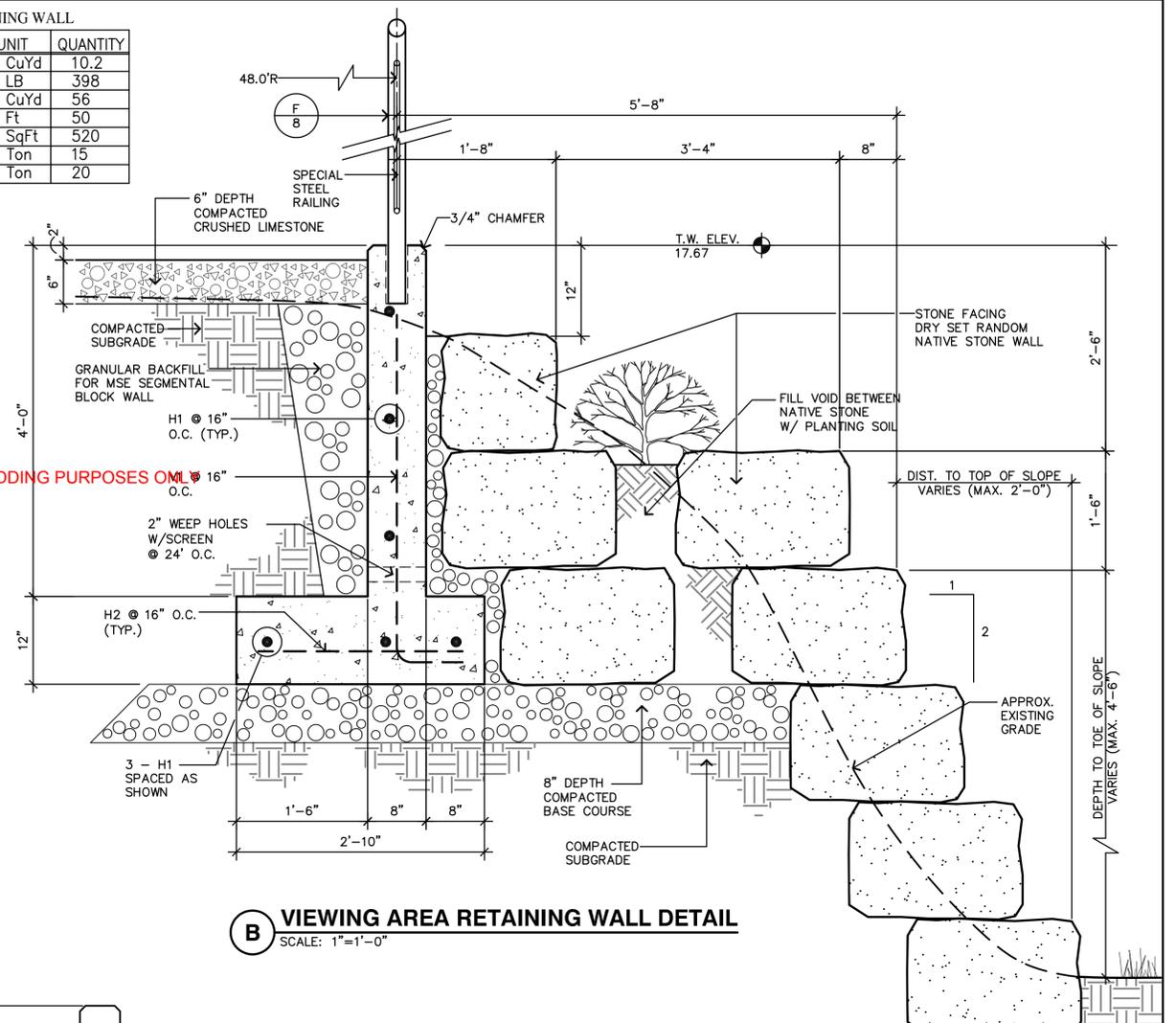
6 LANDSCAPE BOULDERS: PROVIDE NATIVE BOULDERS. COORDINATE LOCATION AND TYPE WITH LANDSCAPE ARCHITECT. REFER TO BOULDER SCHEDULE SHEET 9 FOR SIZES AND QUANTITIES.

REINFORCING SCHEDULE

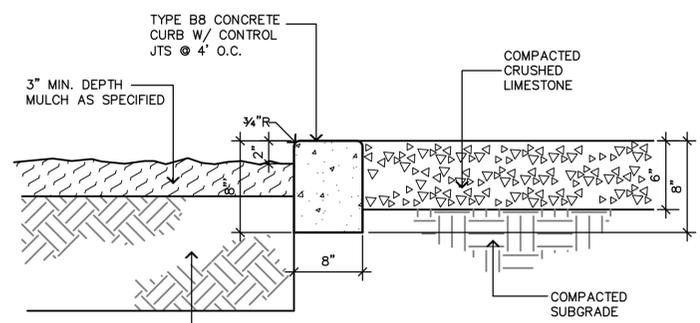
MKI NO.	SIZE	LENGTH	TYPE	BENDING DETAILS
H1	6	4	49-8" STR	4'-7" V1
H2	3/8	4	2'-6" STR	
V1	3/8	4	5'-4" 17A	TYPE 17A

NOTE: ALL DIMENSIONS ARE OUT-TO-OUT OF BARS

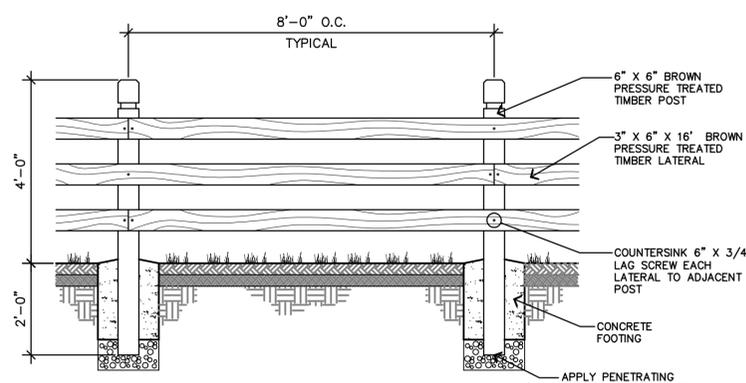
FOR BIDDING PURPOSES ONLY



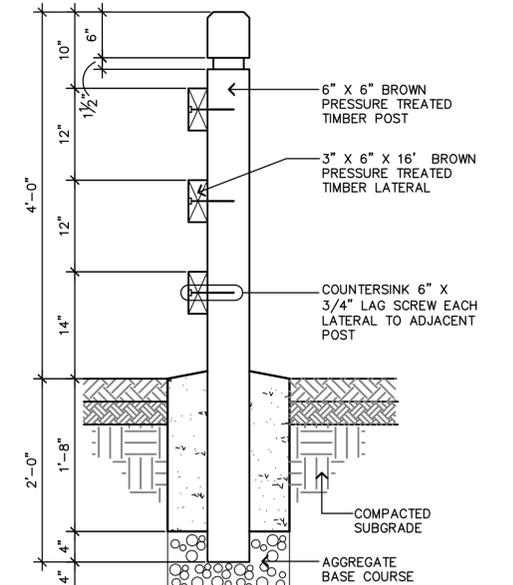
B VIEWING AREA RETAINING WALL DETAIL
SCALE: 1"=1'-0"



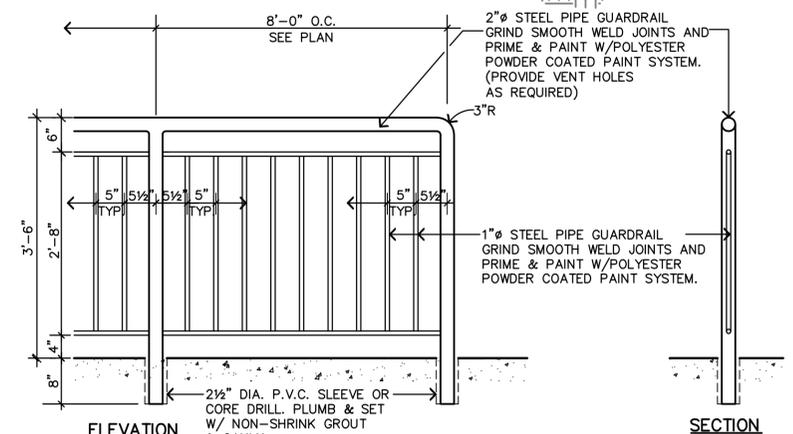
C PATHWAY DETAIL
SCALE: 1 1/2"=1'-0"



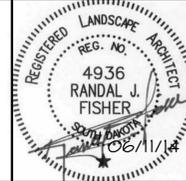
D SPECIAL RIGHT-OF-WAY FENCE ELEVATION
SCALE: 1/2"=1'-0"



E SPECIAL RIGHT-OF-WAY FENCE SECTION
SCALE: 1"=1'-0"



F SPECIAL STEEL GUARDRAIL DETAIL
SCALE: 3/4"=1'-0"

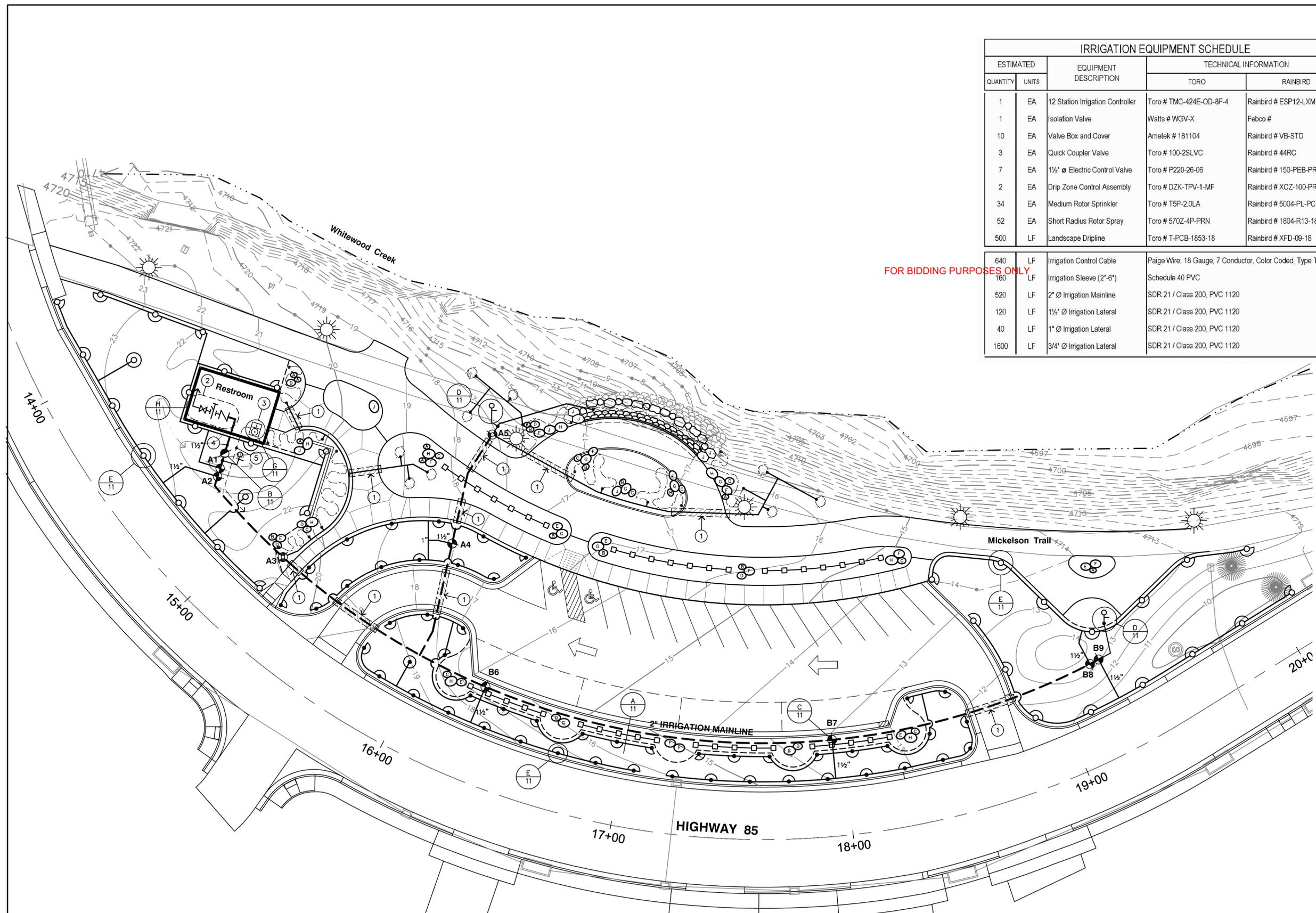


Scale: AS SHOWN

Designed By: RJF	Drawn By: TJD
Design Date: March 7, 2014	Print Date: June 30, 2014
Internal Job No: R14-401	
Surveyed By:	Survey Date:
SDOT Project No. P TARP(04) PCN 04QE	

City of Deadwood
Gateway Parking

Sheet Title:	VIEWING AREA PLAN AND DETAILS
Sheet:	8
of	29



FOR BIDDING PURPOSES ONLY

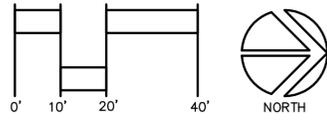
IRRIGATION EQUIPMENT SCHEDULE				
ESTIMATED		EQUIPMENT DESCRIPTION	TECHNICAL INFORMATION	
QUANTITY	UNITS		TORO	RAINBIRD
1	EA	12 Station Irrigation Controller	Toro # TMC-424E-OD-8F-4	Rainbird # ESP12-LXMM
1	EA	Isolation Valve	Watts # WGV-X	Febco #
10	EA	Valve Box and Cover	Amelek # 181104	Rainbird # VB-STD
3	EA	Quick Coupler Valve	Toro # 100-2SLVC	Rainbird # 44RC
7	EA	1 1/2" Electric Control Valve	Toro # P220-26-06	Rainbird # 150-PEB-PRS-D
2	EA	Drip Zone Control Assembly	Toro # DZK-TPV-1-MF	Rainbird # XCZ-100-PRB-LC
34	EA	Medium Rotor Sprinkler	Toro # T5P-2.0LA	Rainbird # 5004-PL-PC-2.0LA
52	EA	Short Radius Rotor Spray	Toro # 570Z-4P-PRN	Rainbird # 1804-R13-18
500	LF	Landscape Dripline	Toro # T-PCB-1853-18	Rainbird # XFD-09-18
640	LF	Irrigation Control Cable	Paige Wire 18 Gauge, 7 Conductor, Color Coded, Type TC	
160	LF	Irrigation Sleeve (2"-6")	Schedule 40 PVC	
520	LF	2" Irrigation Mainline	SDR 21 / Class 200, PVC 1120	
120	LF	1 1/2" Irrigation Lateral	SDR 21 / Class 200, PVC 1120	
40	LF	1" Irrigation Lateral	SDR 21 / Class 200, PVC 1120	
1600	LF	3/4" Irrigation Lateral	SDR 21 / Class 200, PVC 1120	

- IRRIGATION NOTES:**
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PUBLIC AND PRIVATE UTILITIES IN THE PROJECT AREA PRIOR TO CONSTRUCTION. NOTIFY ARCHITECT OF ANY CONFLICTS.
 - ALL CONSTRUCTION TO BE IN ACCORDANCE WITH APPLICABLE CODES. NOTHING IN THESE DRAWINGS SHALL RELIEVE THE CONTRACTOR FROM COMPLYING WITH ALL APPROPRIATE SAFETY REGULATIONS.
 - ALL IRRIGATION PIPING & EQUIPMENT TO BE INSTALLED IN ACCORDANCE WITH STANDARDS AS ESTABLISHED BY THE IRRIGATION ASSOCIATION.
 - QUALITIES PROVIDED ON DRAWINGS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES OF ALL MATERIALS, EQUIPMENT & SUPPLIES REQUIRED TO COMPLETE PROJECTS.
 - THIS SYSTEM WAS DESIGNED FOR A 60 P.S.I. STATIC WATER PRESSURE AND 60 G.P.M. UNLESS INDICATED OTHERWISE ON PLAN. SHOULD THE PRESSURE AND GALLONAGE BE LESS THAN THIS, NOTIFY THE ARCHITECT BEFORE PROCEEDING WITH THE INSTALLATION.
 - ALL LATERAL LINES TO BE 3/4" P.V.C. UNLESS OTHERWISE NOTED.

- IRRIGATION KEY NOTES:**
1. INSTALL SCHEDULE 40 PVC SLEEVES 18" BELOW PAVEMENT. SIZE SLEEVES AS INDICATED BELOW:
 - * 6" SLEEVE - ALL MAINLINE PIPE
 - * 4" SLEEVE - 2 1/2" & 3" LATERAL PIPE
 - * 3" SLEEVE - 1 1/2" & 2" LATERAL PIPE
 - * 2" SLEEVE - 3/4" & 1" LATERAL PIPE
 2. IRRIGATION BACKFLOW PREVENTER & BLOW-OUT VALVE ARE TO BE INSTALLED IN MECH ROOM BY PLUMBING CONTRACTOR (SEE BLDG. PLUMBING PLAN).
 3. INSTALL IRRIGATION CONTROLLER IN MECH ROOM. COORDINATE INSTALLATION OF 120 VOLT AC POWER SUPPLY W/ ELECTRICAL CONTRACTOR.
 4. PLUMBING CONTRACTOR TO EXTEND 4" IRRIGATION SUPPLY LINE 4.0' FROM BLDG. APPROX. 18" BELOW GRADE TO IRRIGATION POINT-OF-CONNECTION.
 5. ELECTRICAL CONTRACTOR TO EXTEND 2" PVC CONDUIT 4.0' FROM BLDG. APPROX. 18" BELOW GRADE. IRRIGATION CONTRACTOR TO PULL LOW-VOLTAGE WIRES TO CONTROLLER.

- IRRIGATION LEGEND:**
- IRRIGATION CONTROLLER
 - QUICK COUPLER VALVE
 - ISOLATION VALVE
 - 1 1/2" ELECTRIC CONTROL VALVE
 - DRIP CONTROL VALVE
 - MEDIUM TURF ROTOR SPRINKLER
 - SMALL TURF ROTOR SPRINKLER
 - IRRIGATION SLEEVE (2" - 4")
 - 2" IRRIGATION LATERAL
 - 1 1/2" IRRIGATION LATERAL
 - 1" IRRIGATION LATERAL
 - 3/4" IRRIGATION LATERAL
 - LANDSCAPE DRILINE
 - IRRIGATION CONTROL CABLE

IRRIGATION PLAN



Prepared By: **TSP, Inc.**
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 www.teamtsp.com

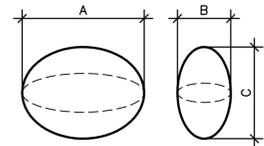


Scale: 1"=20'-0"

Designed By: RJF	Drawn By: TJD
Design Date: March 7, 2014	Print Date: June 11, 2014
Internal Job No: R14-401	
Surveyed By:	Survey Date:
SDDOT Project No. P TARP(04) PCN 04QE	

City of Deadwood
Gateway Parking

Sheet Title:	IRRIGATION PLAN
Sheet:	9
of	29



BOULDER MEASUREMENT
NO SCALE

LANDSCAPE BOULDER SCHEDULE								
TYPE	QUANTITY	BOULDER DESCRIPTION	SIZE (Inches)			BOULDER VOLUME / WEIGHT		
			A	B	C	VOLUME (Cubic Feet)	WEIGHT (LBS)	WEIGHT (Tons)
A	8	24" Small Boulder	32	24	16	3.7215	614	0.31
B	8	27" Small Boulder	36	27	18	5.2988	874	0.44
C	8	30" Medium Boulder	40	30	20	7.2685	1199	0.60
D	8	33" Medium Boulder	44	33	22	9.6744	1596	0.80
E	8	36" Large Boulder	48	36	24	12.5600	2072	1.04
F	8	39" Large Boulder	52	39	26	15.9689	2635	1.32
G	8	42" Huge Boulder	56	42	28	19.9448	3291	1.65
H	8	45" Huge Boulder	60	45	30	24.5313	4048	2.02
J	8	48" Enormous Boulder	64	48	32	29.7719	4912	2.46

LANDSCAPE BOULDERS - ESTIMATED TOTAL WEIGHT (Tons) = **84.97**

- KEY NOTES:**
- RECLAIM ROCK BOULDERS FROM HIGHWAY 85 PROJECT AND STOCKPILE BOULDERS WITHIN 80 FEET OF PLACEMENT FOR LANDSCAPE CONTRACTOR.
 - BOULDER SIZES, VOLUMES, AND WEIGHTS INDICATED ON SCHEDULE ARE APPROXIMATE. SOME VARIATIONS IN BOULDER SIZES SHOULD BE ANTICIPATED FOR BIDDING PURPOSES ONLY.
 - CONTRACTOR IS REQUIRED TO COORDINATE BOULDER HORIZONTAL AND VERTICAL LOCATION, AND ORIENTATION WITH ARCHITECT.

PLANT MATERIAL SCHEDULE				
KEY	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE
DECIDUOUS TREES				
SM	3	Sensation Maple	Acer negundo	2" B & B
SP	2	Siouxland Poplar	Populus deltoides 'Siouxland'	2" B & B
BO	6	Bur Oak	Quercus macrocarpa	2" B & B
HB	3	Hackberry	Celtis occidentalis	2" B & B
ORNAMENTAL TREES				
QA	3	Quaking Aspen	Populus tremuloides	2" B & B
AB	6	Autumn Brilliance Serviceberry	Amelanchier x grandiflora 'Autumn Brilliance'	2" B & B
EVERGREEN TREES				
BH	7	Black Hills Spruce	Picea glauca densata	8' ht. B & B
PP	6	Ponderosa Pine	Pinus ponderosa	8' ht. B & B
DECIDUOUS SHRUBS				
AC	16	Alpine Currant	Ribes alpinum	18" ht.
DN	9	Dwarf Ninebark	Physocarpus opulifolius 'Nanus'	18" ht.
TS	16	Tor Spirea	Spirea betulifolia 'Tor'	18" ht.
EVERGREEN SHRUBS				
BJ	23	Buffalo Juniper	Juniperus sabina 'Buffalo'	2 Gallon
ORNAMENTAL GRASS AND PERENNIALS				
KF	39	Karl Forester Grass	Calamagrostis acutifolia 'Karl Forester'	2 Gallon
VC	8	Virginia Creeper	Parthenocissus quinquefolia	1 Gallon
SV	40	May Night Salvia	Salvia nemorosa	1 Gallon
DL	60	Stella de Oro Daylilies	Hemerocallis 'Stella de Oro'	1 Gallon

HYDROSEEDING REQUIREMENTS:

NATIVE AREAS:	LB/PLS
Western Wheatgrass Rosana	1.1
Thickspike Wheatgrass Critiana CT	1.1
Streambank Wheatgrass Sodor	1.5
TTL LBS PURE LIVE SEED (PLS) PER 1,000 SF	3.7

LANDSCAPE NOTES:

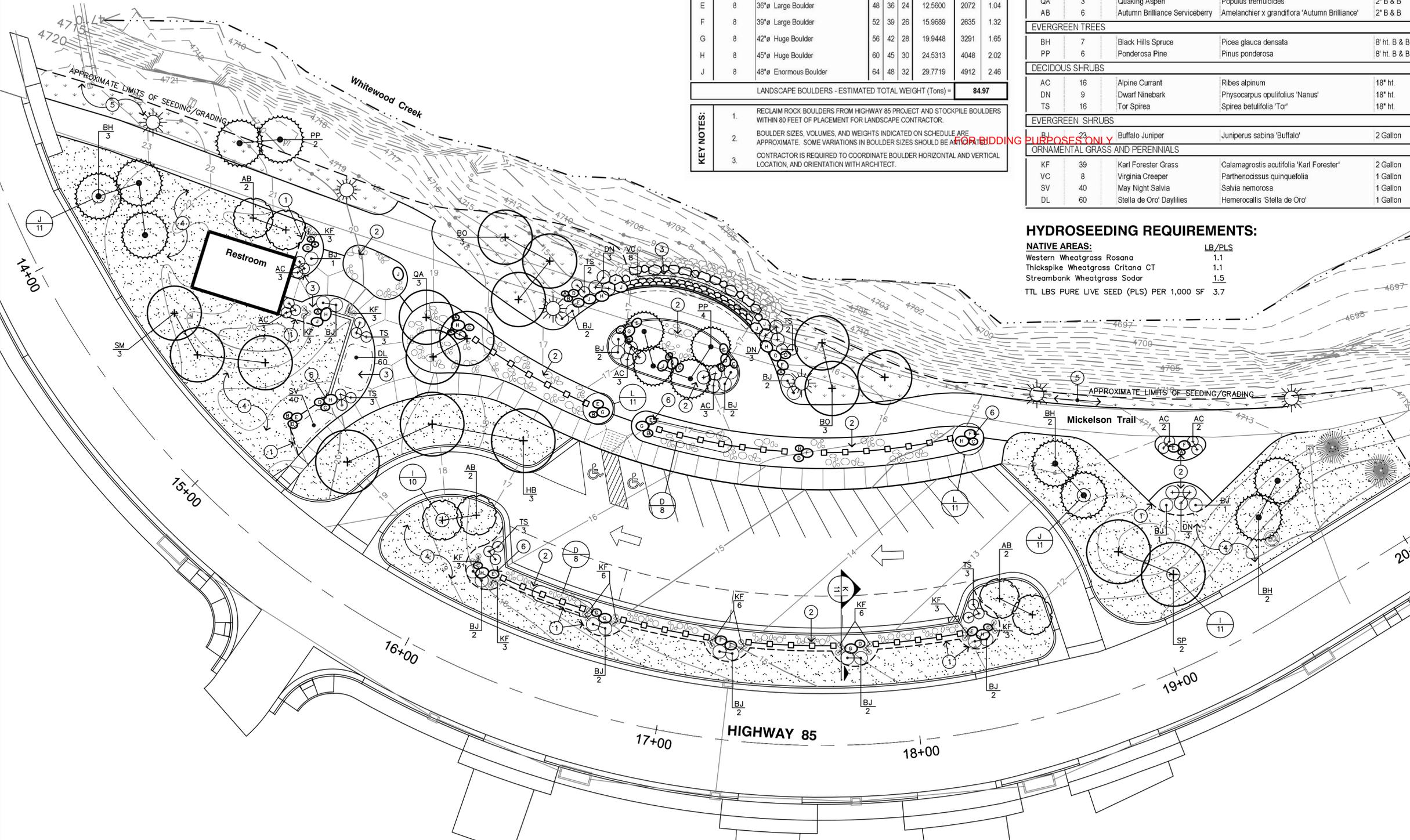
- UNDERGROUND UTILITIES: THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. SOUTH DAKOTA ONE CALL NOTIFICATION: 800-781-7474.
- VERIFY QUANTITIES: QUANTITIES PROVIDED ON DRAWINGS ARE FOR INFORMATION ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES OF ALL MATERIALS TO COMPLETE PROJECT.

LANDSCAPE KEY NOTES:

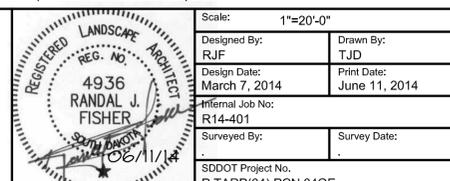
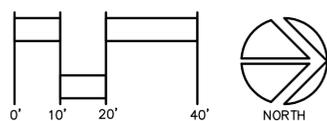
- LANDSCAPE EDGING: INSTALL ONE OF THE FOLLOWING LANDSCAPE EDGINGS OR APPROVED EQUAL AS INDICATED ON PLAN:
 - 3/8" X 4" DEEP STEEL EDGING BY SURE-LOC STEEL EDGING, COLOR: BROWN
 - 3/8" X 4" DEEP STEEL EDGING NO. 10 BY PROSTEEL EDGING, COLOR: BROWN
- LANDSCAPE ROCK: PROVIDE 3" MIN. DEPTH AUTUMN FLAME AGGREGATES BY DAKOTA STONE (605) 574-2760 OR APPROVED EQUAL ON WEED BARRIER FABRIC. DO NOT PLACE ROCK MULCH AGAINST BRANCHES AND STEMS OF PLANT MATERIAL.
- SHREDDED BARK MULCH: PROVIDE 3" MIN. DEPTH SHREDDED BARK MULCH.
- SODDING: PROVIDE AND INSTALL MIN. 6" DEPTH OF TOPSOIL & SOD AS SPECIFIED.
- HYDROSEEDING: PROVIDE AND INSTALL MIN. 4" DEPTH OF TOPSOIL & HYDROSEED AS SPECIFIED WITH NATIVE SEED MIX. AREAS SHOWN TO BE SEEDED ARE APPROXIMATED. CONTRACTOR TO HYDROSEED ALL TURF AREAS DISTURBED BY CONSTRUCTION.
- ORNAMENTAL LANDSCAPING BOULDERS: PROVIDE NATIVE BOULDERS. COORDINATE LOCATION AND TYPE WITH LANDSCAPE ARCHITECT. REFER TO BOULDER SCHEDULE FOR SIZES AND QUANTITIES.

LANDSCAPE SYMBOLS:

- DECIDUOUS TREE
- ORNAMENTAL DECIDUOUS TREE
- CONIFEROUS EVERGREEN TREE
- DECIDUOUS SHRUB
- CONIFEROUS SHRUB
- ORNAMENTAL GRASS
- PERENNIAL PLANT AREA
- LANDSCAPE EDGING
- SODDED AREA IRRIGATED
- HYDROSEEDED AREA NON-IRRIGATED
- LANDSCAPE ROCK

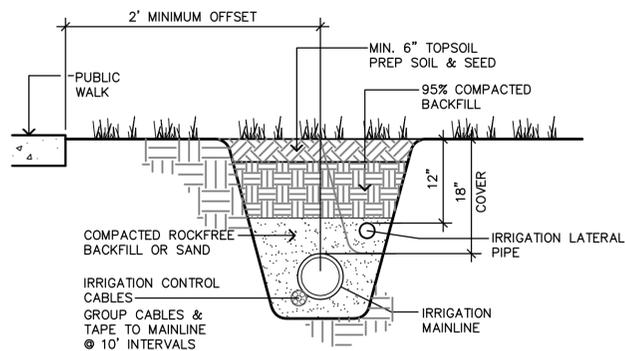


LANDSCAPE PLAN

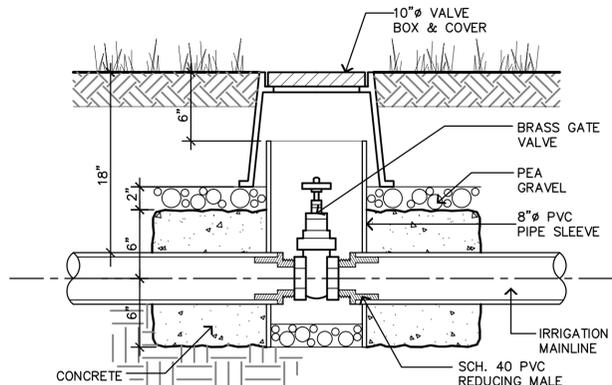


Scale: 1"=20'-0"
 Designed By: RJF
 Design Date: March 7, 2014
 Internal Job No: R14-401
 Surveyed By:
 SDDOT Project No. P TARP(04) PCN 04QE

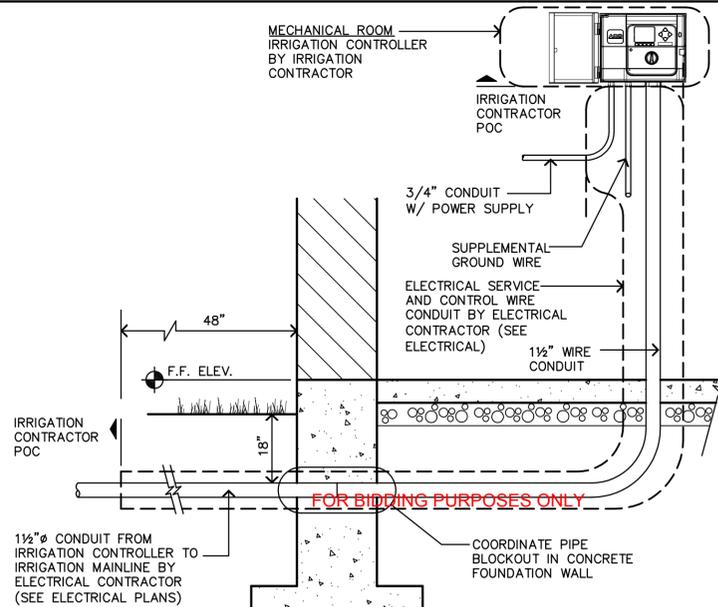
City of Deadwood
Gateway Parking



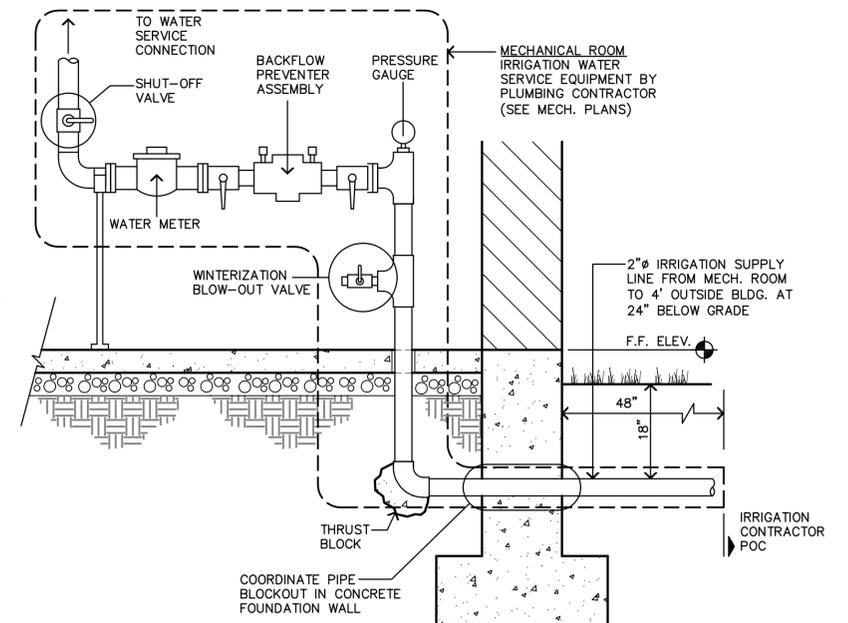
A TRENCH DETAIL
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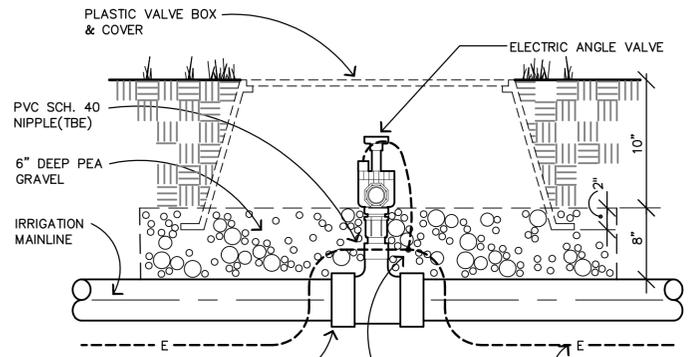
B ISOLATION GATE VALVE DETAIL
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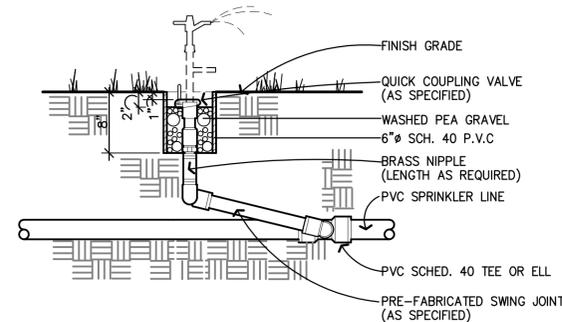
G IRRIGATION CONTROL STATION
SCALE: 3/4"=1'-0"



H IRRIGATION WATER SERVICE
SCALE: 3/4"=1'-0"

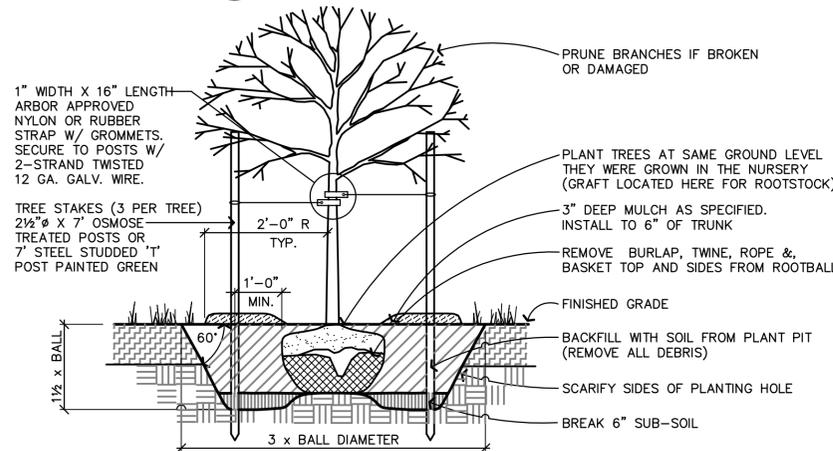


C ZONE VALVE BOX
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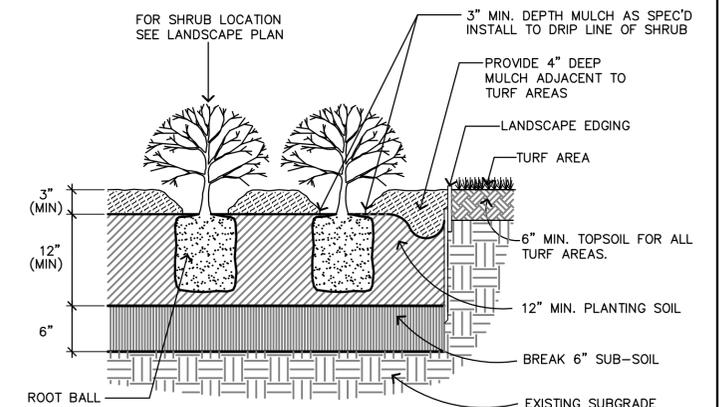


GENERAL NOTES:
FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

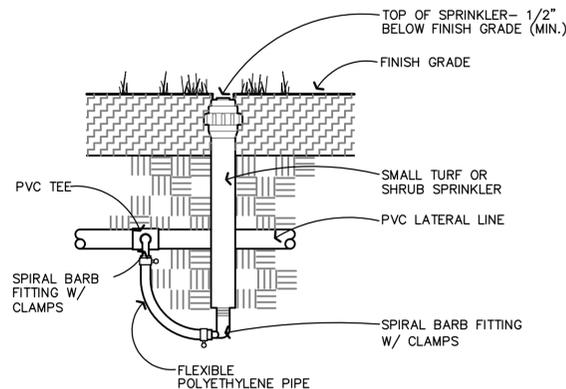
D QUICK COUPLING VALVE ASSEMBLY
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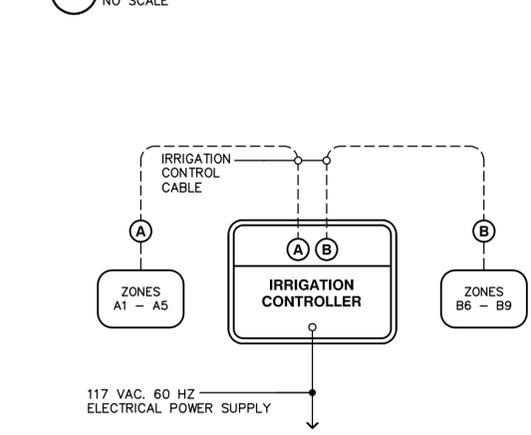
I DECIDUOUS TREE PLANTING DETAIL
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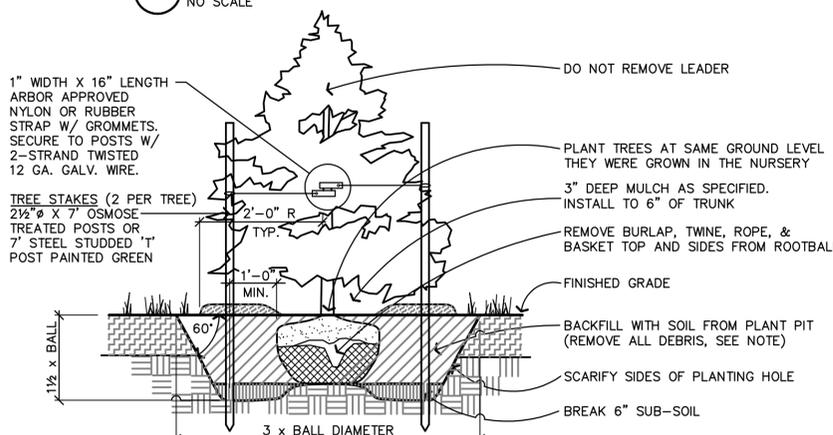
K SHRUB PLANTING DETAIL
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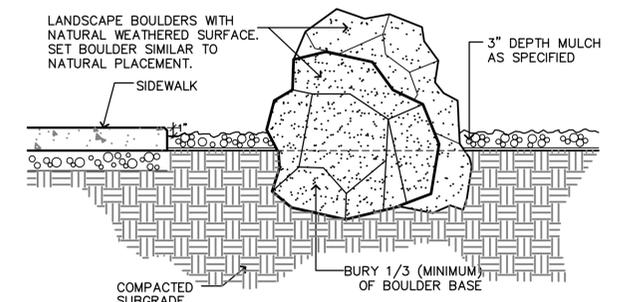
E SMALL TURF SPRINKLER ASSEMBLY
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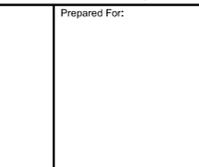
F IRRIGATION CONTROL WIRING DIAGRAM
NO SCALE



J CONIFEROUS TREE PLANTING DETAIL
NO SCALE



L ORNAMENTAL LANDSCAPING BOULDER
NO SCALE



Scale:	AS SHOWN
Designed By:	RJF
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Design Date:	March 7, 2014
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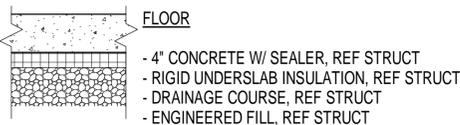
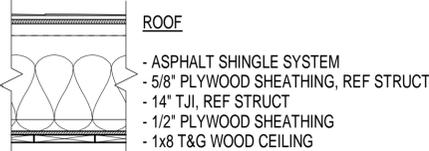
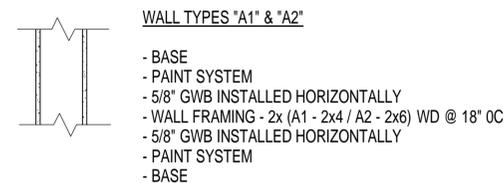
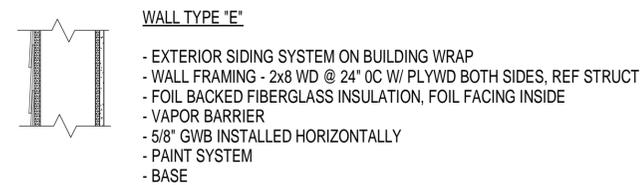
MATERIAL LEGEND

	EXISTING		RIGID INSULATION/EIFS
	NATIVE UNDISTURBED SOIL		GROUT
	BACKFILL/FILL		WOOD WALL/FINISH
	ENGINEERED FILL		MORTAR
	DRAINAGE COURSE		PLYWOOD/OSB/PARTICLEBOARD
	ROCK/"SUGAR ROCK"		WOOD-GLUED/LAMINATED
	SCARIFY & RECOMPACT		WOOD - BLOCKING OR SHIM
	CONCRETE		WOOD - CONTINUOUS FRAMING
	BRICK		INSULATION/FIRE SAFING
	CONCRETE MASONRY UNIT		METAL/STEEL

SYMBOLS LEGEND

	NAME ROOM TAG		SECTION TAG
	REVISION TAG		DETAIL TAG
	KEYNOTE TAG		EXTERIOR ELEVATION TAG
	DOOR TAG		INTERIOR ELEVATION TAG
	WINDOW TAG		NORTH ARROW
	SPECIAL EQUIPMENT TAG		ELEVATION TAG
	COLUMN/FND GRID INDICATOR		MATCH LINE INDICATOR
	A1 VIEW TITLE SCALE: 1'-0" = 1'-0"		DETAIL/SECTION PLAN INDICATOR

CONSTRUCTION TYPES



GENERAL ARCHITECTURAL NOTES

Project Description:
This set of project documents involves the construction of a small one story restroom facility which includes restrooms, display area and utility room. The scope of work includes but is not limited to: associated site work and utility connections; reinforced concrete foundations, floor slab & sealer; wall and roof systems; mechanical and plumbing systems and components; power and lighting; windows, louver, doors and hardware; and interior and exterior finishes including drywall, paint, and wood ceiling.

The construction documents for the restroom portion of the site development project consist of these drawings and technical notes within. Also, reference the Project Manual and drawings for project and site requirements, and for full technical specifications.

General Notes:

Code Summary:

- Contractor shall perform all work and provide all inspections in accordance with ICC 2012 International Code Council family of codes, and other codes and ordinances, as amended and adopted by the State of South Dakota.
 - Contractor shall Comply with all applicable requirements for Lawrence County, and the town of Deadwood, SD and provide for all permits, fees and inspections required unless noted otherwise in these documents.
 - Code classifications:
 - Occupancy Group (Section 311) – Group B – Business
- Occupancy
- Type of Construction (Section 602.5, and Table 503) – Type V-B non-sprinkled
 - Fire Resistance of Exterior Walls (Section 602.1, Table 602): All Walls – 0 hour
 - Allowable Floor Area (Section 503, Table 503) 5500sf (allow area increases not included - Actual Floor Area - approximately 750 s.f.)
 - Allowable Stores/Height (Table 503) 2.
- Actual Stories/Height - Type V-B Construction: Group B = 1 story.
- Type of Construction - Fire-Resistive Requirements (Section 602.1 & Table 601) none required.
 - Portable Fire Extinguisher Required (906.1)

General Requirements:

- Provide products as indicated, or Architect approved equal. Alternate products shall be used only with prior written approval of Architect.
- Alternate Products: Products identified within these documents represent aare "basis of design" for this project. Submittals for alternative products will be considered for approval with sufficient documentation verifying that product meets or exceeds product specified. Reference Project Manual for submittal procedures.
- Contractor to Provide Shop Drawings/submittals for Architect Review as provided for in the Project Manual, and as specified. For this structure submittals, provide for the following:
 - Roofing & Vents/Siding System, flashing, building wrap.
 - Engineered Stone
 - Insulation and thermal barrier.
 - Doors and hardware – include installation details
 - Windows – Include installation details, and submit sample.
 - Interior wood finish.
 - Paint Finish's.
 - Base.
 - For mechanical, plumbing and electrical components reference MEP documents.
 - All products and systems installed shall be per manufacturer requirements and associated industry standards and details
- Submit Color options for Architect approval where applicable.
- All Work shall be completed by appropriately qualified and experienced installers.
- Contractor shall provide Operations and Maintenance Manuals for all products listed above, and as identified in Mechanical/Electrical/Plumbing documents, including Mfg. warranties.

Products & Technical Notes:

- Roofing System:** Provide complete Roofing system including asphalt shingles, underlayment, ridge vents, metal flashing & trim, roof vents, eave vent screens, and associated roofing accessories.
 - Provide/obtain ridge and hip cap shingles ridge vents, felt underlayment and self-adhering sheet underlayment through one source from a single asphalt shingle manufacturer.
 - Provide Warranty in Manufacturer's standard form in which manufacturer agrees to repair or replace asphalt shingles that fail within specified warranty period.
 - Material Warranty Period: Forty (40) years from date of Substantial Completion, prorated, with first five (5) years non-prorated.

- Shingles: "Grand Sequoia IR by GAF Materials Corporation - Heavyweight, impact resistant design, granule surfaced, self-sealing asphalt shingle with a strong fiberglass reinforced core and mineral granule surfacing, or Architect approved equal.
 - Underlayment: Install per Roofing Mfg. requirements.
 - Felts: ASTM D 226, Type I, asphalt-saturated organic felts, non-perforated.
 - Self-Adhering Sheet Underlayment, Granular Surfaced: ASTM D 1970, minimum of 55-mil- (1.4-mm-) thick sheet; glass-fiber-mat-reinforced, SBS-modified asphalt; mineral-granule surfaced; with release paper backing; cold applied.
 - Flashing and Trim: Zinc coated (Galvanized) Steel.
 - Attachment Nails: Aluminum, stainless-steel, or hot-dip galvanized steel wire, per roofing mfg. requirements.
 - Eave Ventilation Troughs: Provide Preformed, rigid fiberboard or plastic sheets designed and sized to fit between roof framing members and to provide cross ventilation between insulated spaces and vented eaves.
- Siding System:** Provide complete Siding system: system shall include Fiber Cement Board Siding system, including trim boards, fascia, and soffit panels; building wrap, underlayment, trim, flashing, sealants and associated accessories.
 - Siding components shall be CertainTeed Weather Board Cedar Lap Siding, as required for 4 -1/2" reveal, as manufactured by Plycem., including Standing and Running boards, f 5/4 Trim boards, Skirt board, and fascia, or Architect approved equal. Products shall be sealed and primed, and include Premium shop finish (color by architect).
 - Install per Manufacturer requirements and Architectural Woodwork Institute's "Architectural Woodwork Quality Standards" with qualified, experience installer. Install level, plumb, true and straight, seal and repair all cut surfaces, using minimum and staggered joints.
 - Provide Manufacturer's Product Warranty :
 - Material Warranty Period: 50-year limited warranty and 12 year Premium Stain limited warranty (25 year for trim boards).
 - GC to coordinate construction details at wall openings and roof penetrations with architect as needed.
 - Exposed metal trim shall be prefinished, color as selected by Architect. Provide trim, flashing, and color matching sealant at all openings as required for complete and finished installation.

- Engineered Stone:**
 - "Shadowrock" as manufactured by Eldorado or architect approved equal.
- Exterior Door System:** Provide complete heavy duty assembly including doors, frames, hardware, threshold, flashing, weather stripping, etc.. - Coordinate installation details with Architect.
 - Door shall be Aluminum 1-3/4" 3'-0"w x7'-0" high on 4" aluminum frame with insulating tempered glass 2'-0" x 3'-0".
 - Product: Provide Kawneer North America; Trifab VersaGlaze 451T or Architect approved equal.
 - Fasteners, Flashings, and Accessories shall be compatible with adjacent materials, corrosion-resistant, non-staining, and non-bleeding. Use concealed fasteners except for application of door hardware.
 - Doors and Door Framing: Reinforce to support imposed loads and for hardware indicated. Cut, drill, and tap for factory-installed hardware before finishing components.
 - Provide manufacturers standard heavy duty commercial push / pulls, bull bearing ty hinges and weather-stripping.
 - Glazing - provide tempered insulating glass, per 16 CFR 1201, ASTM C 1172, min. u-value 34 with high transmittance. Coordinate with Architect final glazing criteria.
 - Hardware to include as follows:
 - Flush bolt FB458-12-MD US26 D finish as mfg by IVES
 - Alum lock MS1850 Series (as required) 628 finish by Adams rite
 - Mortise Cyl 20-013x AR CAM 626 finish, by Schlage
 - Closer 4041-Spring Cush Fin 689 LCN
 - Threshold 425E-36" Alum National Guard.
 - Hinges/push & Pulls and gasketing by Door Supplier.
 - Warranties:
 - Door: Provide Manufacturer's standard form in which manufacturer agrees to repair or replace systems that fail in materials and workmanship within two years from date of Substantial Completion. Glazing: Provide Manufacturer's Special Warranty on Laminated Glass: Manufacturer's standard form, made out to Owner for replacement laminated-glass units that deteriorate. Warranty Period: Five (5) years from date of Substantial Completion.

- Interior Door System:**
 - Door shall be 1-3/4" 3'-0"w x 7'-0" high hollow metal door on hollow metal steel frame. Assembly shall be compliant with Steel Door Institute standard specifications ANSISDI A250.8-03
 - Door shall be SDI Standard Level 3 Extra Heavy Duty type F, non-insulated
 - Provide 2 coats of finish paint on primed doors and frame - color by Architect.
 - Door frame shall be sized for doors selected, and for wall construction type. Coordinate required rough openings, and frame sizes with GC as well as required frame construction.
 - Provide manufacture standard warranty's for door, hardware and frame.
 - Provide Heavy duty hardware including hinges, latch, and strike set. Provide submittal for Architect review, and for finish selection.
 - Provide Schlage ND10S RHO 10-025 with 626 Finish passage set, or Architect approved equal.
 - Provide 3 heavy duty 90 degree hinges for each door. TA2714 4.5x4.5 McKinney MFG. or Architect approved equal.
 - Provide 3 heavy duty 90 degree ball bearing hinges for each door.

- Window System:** Provide complete installation per manufacture installation requirements appropriate for wall system specified. Installation shall include treated wd. blocking, sill guard and flashing, sealant, trim.
 - Wood Windows shall be aluminum-clad wood frame 24"x24" fixed.
 - Provide Marvin CCM 2424 units with "Sill Gard" system, or Architect approved equal and Kynar 500 finish --reference drawings for sizing and style. Submit color samples for Architect selection.
 - Submit complete shop drawings including plans, elevations, sections, details, attachments to other Work, and operational clearances.
 - Warranties:
 - Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace wood windows that fail in materials and workmanship within two (2) years from date of Substantial Completion.
 - Warranty Period for Metal Finishes: (10) years from date of Substantial Completion.
 - Warranty Period for Glass: Manufactures special warranty (20) years from date of Substantial Completion.
 - Glazing: Provide passive Solar Low-E Insulating-Glass Units:
 - Overall Glass Thickness and Thickness of Each Lite: 3- mm min. except as performance requires thicker glass and as noted below.
 - Interspace Width and Content: 1/2 inch; air.
 - Outdoor Lite: Class 1 (clear) float glass.
 - Indoor Lite: Class 1 (clear) float glass.
 - Solar Heat Gain Coefficient: 0.41 maximum.
 - Outdoor Visible Reflectance: 11 percent maximum.

- Louvers:** Reference mechanical and architectural drawings.
 - GC shall coordinate framing and finishes as required for complete installation. Provide framing, prefinished metal head & sills flashing, and sealant, as required.
- Insulation System:** Exterior walls and roof shall be insulated with the following:
 - Foil faced, Glass-Fiber Blanket Insulation: ASTM C 665, Type I (blankets without membrane facing); consisting of fibers; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E 136 for combustion characteristics.
 - Roof: 12" Foil backed fiberglass insulation, min. R36
 - Walls 8" Foil Backed fiberglass insulation, min R25.
 - Foundation and wall insulation: Extruded-Polystyrene Board Insulation: ASTM C 578, of type and minimum compressive strength indicated below, with maximum flame-spread and smoke-developed indexes of 75 and 450, respectively, per ASTM E 84.

- Vapor Retarders:** Install continuous vapor barrier at exterior walls and at ceiling.
 - Polyethylene Vapor Retarders: ASTM D 4397, 6 mils thick, with maximum permeance rating of 0.13 perm.
 - Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.
 - Single-Component Nonsag Urethane Sealant: ASTM C 920, Type I, Grade NS, Class 25, Use NT related to exposure, and Use O related to vapor-barrier-related substrates.

- Building Wrap:** Housewrap, flashing and tape shall be provided and installed per siding manufacture requirements.
 - "CertaFlash", "Certawrap", "CertaTape" as manufactured by Certaineed, or Architect approved equal.
- Drywall:**
 - Provide on for all interior walls, 5/8 "Abuse Resistant" Gyp Bd. As mfg. by USG or architect approved. Install per USG standards for quality product installation.. Attach Gyp to studs with 1-1/4" long Type W steel Screws, 12"/o.c.
 - Cover Screw heads and joints with paper tape and joint compound.
- Finish** – Paint all exposed surfaces w/ min. primer and two finish coats premium grade paint as manufactured by Sherwin –Williams, or architect approved equal.
 - Paint Exterior Wood Brackets
 - Paint Interior Walls, 1- color outside walls, plus 1 wall color for interior partitions.
 - Stain Ceiling and interior face of windows. Premium grade wood stain per Mfg. requirements.
 - Paint exposed interior ductwork (except when not visible within M/E room).
 - Submit cut sheets and samples for Architect selection and approval.
- Solid Plastic Partitions @ toilet stalls:**
 - Scranton Products Solid Plastic partition system (panels, hardware and support systems), or approved equal. Color by Architect. Submit shop drawings for Architect review.
- Bathroom Components and Accessories**
 - Owner will provide, for contractor installation, liquid soap dispensers, toilet paper holders, paper towel holders, and trash can units:
 - Installations of all products shall be per ADA and ICC A117.1) Coordinate with Architect as needed.
 - Provide blocking where required.
 - Install accessories using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
 - Adjust accessories for unencumbered, smooth operation and verify that mechanisms function properly. Replace damaged or defective items. Remove temporary labels and protective coatings.
 - Contractor shall provide and install the following:
 - Grab Bar: Basis-of-Design Product: Bobrick #B-6806, 42 inch and 36 inch lengths or approved equal. (Alternate, Contractor's option: Bobrick #B-68616). Install grab bars to withstand a downward load of at least 250 lbf (1112 N), when tested according to method in ASTM F 446.
 - Mirror Unit: Basis-of-Design Product: Bobrick #B-2908 2436 or approved equal. Coordinate final location and size with accessory placement.
 - Sanitary Napkin Disposal wall Mounted: Basis-of-Design Product: Bobrick #B-4354 or approved equal.
 - See Mechanical for Under-lavatory guard.
- Base:** Provide 6" Vinyl base at all walls – match existing in color and profile.
- Fire Extinguisher and Cabinet:** Contractor shall provide and install fire extinguisher and cabinet : Installation shall be fabricated and labeled to comply with NFPA 10, "Portable Fire Extinguishers."
 - Fire Extinguisher:
 - Stored-Pressure Water Type : UL-rated 2-A, 2.5-gal. (9.5-L) nominal capacity, with water in stainless-steel container; with pressure-indicating gage.
 - Fire Extinguisher: Provide standard Mfg. Warranty for a Period of 6 (six) years from date of Substantial Completion.
 - Fire-Protection Cabinet:
 - Coordinate size and type of fire-protection cabinets to ensure that type and capacity of fire extinguishers indicated are accommodated.
 - Cabinet Material: Aluminum sheet, Surface-Mounted Cabinet: Cabinet box fully exposed and mounted directly on wall with no trim. ASTM B 221 (ASTM B 221M), with strength and durability characteristics of not less than Alloy 6063-T5 for aluminum sheet. ASTM B 221 (ASTM B 221M) for extruded shapes. Break-Glass Strike: Manufacturer's standard metal strike, complete with chain and mounting clip, secured to cabinet.
 - Lettered Door Handle: One-piece, cast-iron door handle with the word "FIRE" embossed into face. Door Lock: Cam lock that allows door to be opened during emergency by pulling sharply on door handle.
 - Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location.

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Prepared For:

Scale: 1/8" = 1'-0"	
Designed By: AS	Drawn By: AS
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City of Deadwood Gateway Parking

Sheet Title: A-001 ARCHITECTURAL INFORMATION	Sheet: 12 of 29
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GENERAL STRUCTURAL NOTES

<p>DESIGN CODE</p> <p>1. INTERNATIONAL BUILDING CODE, 2012</p> <p>DESIGN LOADS</p> <p>1. ROOF LIVE LOAD FLAT ROOF SNOW LOAD $P_f = 40$ PSF SNOW EXPOSURE FACTOR $C_e = 1.0$ SNOW LOAD IMPORTANCE FACTOR $I = 1.0$ THERMAL FACTOR $C_t = 1.0$ PLUS APPLICABLE SLIDING, DRIFTING AND UNBALANCED SNOW LOAD INCREASES</p> <p>2. CONCENTRATED LOADS AS SHOWN IN IBC TABLE 1607.1 SHALL BE ADDED TO THE UNIFORM LOADS SHOWN ABOVE.</p> <p>3. WIND LOADS BASIC WIND SPEED = 120 MPH RISK CATEGORY II (ASCE 7-10) WIND EXPOSURE = C</p> <p>4. SEISMIC LATERAL LOADS RISK CATEGORY II (ASCE 7-10) SPECTRAL RESPONSE COEFFICIENTS SS (0.2 SEC) = 0.30g S1 (1.0 SEC) = 0.10g SEISMIC IMPORTANCE FACTOR = 1.00 SITE CLASS D SEISMIC DESIGN CATEGORY A</p> <p>MATERIALS GRADES AND STRENGTHS</p> <p>1. CAST-IN-PLACE CONCRETE FOOTINGS AND FOUNDATIONS - 4500 PSI INTERIOR SLAB ON GRADE - 4500 PSI EXTERIOR SLAB ON GRADE - 4500 PSI W/C RATIO = 0.45 (MAX) MAX AGGREGATE SIZE = 3/4" AIR ENTRAINMENT = REF CONCRETE SECTION NOTE 19.</p> <p>3. REINFORCING STEEL BARS - ASTM A615 (GRADE 60) BARS - ASTM A706 (WELDABLE REBAR) USE WHERE INDICATED WELDED WIRE FABRIC - ASTM A185</p> <p>4. WOOD FRAMING DIMENSION LUMBER - HEM-FIR #2 OR BETTER STUDS - HEM-FIR #2 OR BETTER MICROLAMS (LVL) - $F_b = 2600$ psi, $E = 1,900,000$ psi, $F_v = 285$ psi GLUED-LAMINATED TIMBER - 24FV8 DF/DF $F_b = 2,400$ psi SHEATHING (SUBFLOOR, ROOF, WALL) - APA RATED, THICKNESS, GRADE AND EXPOSURE AS NOTED ON THE DRAWINGS WOOD I-JOIST - TJI OR APPROVED EQUAL PLYWOOD OR OSB WEB MATERIAL AND LVL FLANGE MATERIAL BOTTOM PLATES - TREATED HEM-FIR STUD GRADE</p> <p>GENERAL</p> <p>1. THE INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS IS NOT TO BE SCALED, AS THE ITEMS SHOWN MAY NOT BE TO SCALE FOR THE SPECIFIC LOCATION.</p> <p>2. NO OPENINGS OR SLEEVES SHALL BE CUT OR PROVIDED IN WALLS OR FLOOR CONSTRUCTION WITHOUT APPROVAL BY THE A/E.</p> <p>3. EXAMINE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS TO DETERMINE LOCATION AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, REVEALS, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON STRUCTURAL DRAWINGS.</p> <p>4. BEFORE FABRICATION AND ERECTION OF ANY MATERIALS, FIELD VERIFY ALL EXISTING ELEVATIONS, DIMENSIONS AND CONDITIONS AS SHOWN ON THE DRAWINGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER AT ONCE FOR RESOLUTION.</p> <p>5. STRUCTURAL MEMBERS INCLUDING JOISTS, SLABS, BEAMS, TRUSSES, COLUMNS AND WALLS ARE DESIGNED FOR "IN PLACE" LOADS. CONTRACTOR IS RESPONSIBLE FOR BRACING, WITHOUT OVERSTRESSING, ALL STRUCTURAL ELEMENTS (AS REQUIRED AT ANY STAGE OF CONSTRUCTION) UNTIL COMPLETION OF THIS PROJECT.</p>	<p>FOUNDATIONS</p> <p>1. FOOTINGS HAVE BEEN DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 1500 PSF. THE CONTRACTOR IS TO EMPLOY A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF SOUTH DAKOTA TO VERIFY THIS DESIGN ASSUMPTION. NO FOUNDATION WORK SHALL PROCEED UNTIL THE GEOTECHNICAL ENGINEER'S REPORT HAS BEEN REVIEWED AND APPROVED BY THE ARCHITECT/ENGINEER. IF THE SOIL AT THE FOOTING ELEVATIONS SHOWN IS OF QUESTIONABLE BEARING VALUE, NOTIFY THE ARCHITECT/ENGINEER AT ONCE FOR RESOLUTION.</p> <p>2. TESTING SERVICE MUST INSPECT AND APPROVE SUBGRADES AND FILL LAYERS BEFORE FURTHER CONSTRUCTION WORK IS PERFORMED THEREON. NOTIFY TESTING SERVICE PRIOR TO PROCEEDING WITH PLACEMENT OF FOOTINGS, FILL, OR OTHER CONSTRUCTION OVER SUBGRADES AND FILL.</p> <p>3. WATER SHALL NOT BE PERMITTED TO POND IN FOOTING EXCAVATION. KEEP EXCAVATION DRY. FAILURE TO DO SO WILL BE CAUSE FOR REQUIRING CONTRACTOR TO REMOVE WATER DAMAGED SOILS AND REPLACE WITH CONTROLLED FILL AS DIRECTED.</p> <p>4. SHOULD ANY QUESTIONABLE CONDITIONS BE ENCOUNTERED DURING EXCAVATION, NOTIFY A/E IMMEDIATELY. FOOTING ELEVATIONS ARE SUBJECT TO CHANGE DEPENDING ON SOIL CONDITIONS ENCOUNTERED.</p> <p>5. REMOVE ANY ABANDONED SEWER OR SERVICE LINE ENCOUNTERED DURING EXCAVATION WITHIN THE BUILDING LINES. SHOULD SUCH LINES BE FOUND BELOW OR ADJACENT TO FOOTING LOCATIONS, NOTIFY THE A/E.</p> <p>6. ALL FOOTINGS SHALL BE CENTERED UNDER WALLS. NO OFFSETS SHALL BE PERMITTED.</p> <p>7. WHERE FILL MATERIAL IS PLACED ON BOTH SIDES OF GRADE BEAMS OR WALLS, IT SHALL BE PLACED IN LAYERS ALTERNATELY ON OPPOSITE SIDES TO MAINTAIN LEVELS THAT WILL AVOID DISPLACEMENT OF, OR DAMAGE TO, THE WALLS OR BEAMS.</p> <p>8. WHERE FILL MATERIAL IS PLACED ON ONE SIDE OF A WALL, THE WALL SHALL BE ADEQUATELY SHORED AND BRACED OR THE MATERIAL SHALL NOT BE PLACED UNTIL SUPPORTING FLOOR SLABS HAVE BEEN POURED AND SET.</p> <p>9. NO FILL OR BACKFILL SHALL BE "SETTLED" BY THE USE OF WATER.</p> <p>10. PROVIDE DRAINAGE COURSE BELOW ALL INTERIOR, EARTH SUPPORTED, CONCRETE SLABS UNLESS NOTED OTHERWISE. REFERENCE PLANS AND SPECIFICATIONS.</p> <p>11. PROTECT IN-PLACE FOUNDATIONS AND SLABS ON GRADE FROM FROST PENETRATION UNTIL PROJECT COMPLETION.</p> <p>12. SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS SHALL NOT EXCEED ONE VERTICAL TO TWO HORIZONTAL. STEP FOOTINGS DOWN AS NECESSARY TO MAINTAIN THIS SLOPE.</p> <p>13. ALL EXTERIOR DOORS SHALL HAVE A FROST-FREE STOOP.</p> <p>14. AT LOCATIONS IN WHICH UTILITIES PENETRATE THE FOUNDATION WALL, PROVIDE A SLEEVE IN THE CONCRETE FOUNDATION WALL. (REF DETAIL C2/S-101)</p> <p>CONCRETE</p> <p>1. CODE FOR REINFORCED CONCRETE DESIGN AND CONSTRUCTION IS ACI 318, LATEST EDITION.</p> <p>2. ARRANGEMENT AND BENDING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI DETAILING MANUAL, LATEST EDITION</p> <p>3. IN ADDITION TO OTHER REINFORCING NOTED, PROVIDE 2 - #5 ON EVERY SIDE OF EACH OPENING IN CONCRETE WALLS. EXTEND #5 BARS 24" BEYOND EACH EDGE OF OPENING.</p> <p>4. POLYPROPYLENE FIBER REINFORCING, FIBRILLATED, (BY FIBERMESH OR APPROVED EQUAL) IS TO BE USED FOR ALL INTERIOR AND EXTERIOR SLAB-ON-GRADE LOCATIONS SHOWN ON THESE STRUCTURAL SHEETS AS TEMPERATURE AND SHRINKAGE REINFORCING. APPLY REINFORCING AT THE MANUFACTURER'S RECOMMENDED RATE OR 1.5 LB/CY, WHICHEVER IS GREATER.</p> <p>5. AT FLOOR DRAINS, SLOPE FLOOR UNIFORMLY THROUGHOUT THE ROOM TO THE DRAIN, UNLESS SHOWN OTHERWISE.</p> <p>6. ALL REINFORCING BARS SHALL BE LAP SPLICED WITH THE GREATER LENGTH OF A CLASS B TENSION LAP SPLICE OR 50 BAR DIAMETERS (FOR #6 BARS AND SMALLER) OR 62 BAR DIAMETERS (FOR #7 AND GREATER), EXCEPT WHERE NOTED OR DETAILED OTHERWISE. STAGGER LAPS IN SLABS AND WALLS. SPLICE BARS IN GRADE BEAMS, STRUCTURAL SLABS, JOISTS, BEAMS, PILASTERS OR COLUMNS ONLY WHERE SHOWN ON DRAWINGS OR SCHEDULES APPROVED BY A/E.</p>	<p>7. MINIMUM CONCRETE COVER TO REINFORCING STEEL, UNO, SHALL BE AS FOLLOWS:</p> <p>SURFACES CAST AGAINST EARTH - 3"</p> <p>FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER: #6 BAR OR LARGER - 2" #5 BAR OR SMALLER - 1-1/2"</p> <p>FORMED SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER: WALLS, SLABS, JOISTS #14 AND #18 BARS - 1-1/2" #11 BAR OR SMALLER - 3/4" BEAMS, COLUMNS - 1-1/2"</p> <p>8. DETAIL AND PROVIDE SUITABLE WIRE SPACERS, CHAIRS, TIES, ETC., FOR SUPPORTING REINFORCING STEEL IN THE PROPER POSITION WHILE PLACING CONCRETE.</p> <p>9. ALL CHAIRS SUPPORTED BY GRADE SHALL INCLUDE SAND PLATES.</p> <p>10. BAR SUPPORTS, WHICH COME IN CONTACT WITH EXPOSED SURFACES, SHALL HAVE PLASTIC OR RUBBER TIPS OR BE STAINLESS STEEL</p> <p align="center">FOR BIDDING PURPOSES ONLY</p> <p>11. PROVIDE HOOKED DOWELS OF SAME SIZE AND SPACING AS VERTICAL OR COLUMN REINFORCING AT THE FOUNDATION, UNLESS NOTED OTHERWISE. ALL HOOKED DOWELS SHALL BE TIED IN PLACE PRIOR TO CONCRETE PLACEMENT.</p> <p>12. PROVIDE BENT CORNER BARS TO MATCH AND LAP WITH HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF WALLS, BEAMS, BOND BEAMS, AND FOOTINGS. (REF DETAIL B3/S-101)</p> <p>13. CONTINUOUS TOP BARS IN BEAMS SHALL BE SPLICED AT MIDSPAN AND BOTTOM BARS OVER SUPPORTS, UNO.</p> <p>14. WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, OR WHEN ALTERNATE LOCATIONS ARE PROPOSED, DRAWINGS SHOWING LOCATION OF CONSTRUCTION AND CONTROL JOINTS AND PLACING SEQUENCE SHALL BE SUBMITTED FOR APPROVAL PRIOR TO PREPARATION OF THE REINFORCING STEEL SHOP DRAWINGS.</p> <p>15. HORIZONTAL CONSTRUCTION JOINTS ARE NOT PERMITTED IN CONCRETE MEMBERS UNLESS SHOWN ON THE DRAWINGS OR APPROVED IN ADVANCE. VERTICAL CONSTRUCTION JOINTS OR BULKHEADS SHALL BE MADE AT MIDSPAN OR POINTS OF MINIMUM SHEAR.</p> <p>16. PROVIDE KEYS CONSTRUCTION JOINTS (KCJ) IN EARTH OR FILL SUPPORTED SLABS AT LOCATIONS NOTED.</p> <p>17. SIZE OF CONCRETE POURS BETWEEN CONSTRUCTION JOINTS SHALL BE LIMITED TO:</p> <p>FOUNDATION WALLS - UNLIMITED (FROST DEPTH - NON-EXPOSED)</p> <p>WALLS - MAXIMUM LENGTH 60 FT WITH INTERMEDIATE CONTROL JOINTS AT APPROXIMATELY 8 FT OR TWO TIMES THE WALL HEIGHT, WHICHEVER IS LESS. DO NOT LOCATE WITHIN 5 FT OF A CORNER OR COLUMN.</p> <p>SLABS ON GRADE - 3600 SQFT WITH MAXIMUM DIMENSION OF 60 FT PLACE IN LANE OR STRIP. FASHION WITH INTERMEDIATE CONTROL JOINTS AT APPROXIMATELY 15 FT.</p> <p>18. VERIFY LOCATION OF OPENINGS SHOWN THROUGH CONCRETE SLABS OR WALLS AND COORDINATE ANY ADDITIONAL REQUIRED OPENINGS WITH OTHER TRADES AND THE ARCHITECT/ENGINEER.</p> <p>19. CONCRETE EXPOSED TO FREEZING AND THAWING SHALL CONTAIN 5-7% ENTRAINED AIR.</p> <p>20. ALUMINUM CONDUIT OR PIPING MAY NOT BE EMBEDDED IN ANY CONCRETE.</p> <p>21. CALCIUM CHLORIDE IS NOT PERMITTED IN ANY CONCRETE ADMIXTURES.</p> <p>22. SUBMIT MIX DESIGN TO ENGINEER/ARCHITECT FOR APPROVAL PRIOR TO PLACING ANY CONCRETE.</p> <p>23. CURE CONCRETE ACCORDING TO ACI 308.1 OR A COMBINATION OF MOISTURE CURING, COVER CURING, CURING COMPOUNDS, OR CURING & SEALING COMPOUNDS. SUBMIT TO ENGINEER OF RECORD METHOD OR PRODUCTS USED FOR CURING.</p>	<p>WOOD</p> <p>1. PLACE 5/8" DIAMETER ANCHOR BOLTS AT 32" OC IN TOP OF FOUNDATION WALL FOR ANCHORAGE OF WOOD PLATE.</p> <p>2. NO OPENINGS OR SLEEVES SHALL BE CUT OR PROVIDED IN WALLS OR FLOOR CONSTRUCTION WITHOUT APPROVAL BY THE A/E.</p> <p>3. PROVIDE WOOD FRAMING MEMBERS OF SIZE AND SPACING INDICATED; DO NOT SPLICE STRUCTURAL MEMBERS BETWEEN SUPPORTS.</p> <p>4. FASTEN 2-PLY AND 3-PLY DIMENSION LUMBER BEAMS TOGETHER USING 2 ROWS OF 10D NAILS STAGGERED AT 6" OC, UNO.</p> <p>5. FLOOR AND ROOF SHEATHING PANELS SHALL BE ORIENTED WITH FACE GRAIN PERPENDICULAR TO TRUSS SUPPORTS AND PANEL JOINTS SHALL BE STAGGERED.</p> <p>6. ALL CONSTRUCTION SHALL COMPLY WITH THE "CONVENTIONAL LIGHT-FRAME CONSTRUCTION PROVISIONS" OF THE INTERNATIONAL BUILDING CODE (SECTION 2308), UNO.</p> <p>7. ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY.</p> <p>8. GLUE LAMINATED MEMBERS TO BEAR THE AITC STAMP AND CERTIFICATE AND GRADE STAMP.</p> <p>9. ALL METAL CONNECTORS SHALL BE IBC APPROVED.</p> <p>10. ALL NAILS SHALL BE COMMON NAILS, UNO. REFER TO THE NAILING SCHEDULE IN THE INTERNATIONAL BUILDING CODE TABLE NO. 2304.9.1 FOR CONNECTIONS NOT DETAILED.</p> <p>11. NOT USED.</p> <p>12. ALL BOLTED SILL PLATES, TOP PLATES, LEDGERS, ETC., SHALL HAVE BOLTS WITHIN 6" OF END OF ALL SPLICES AND SHALL HAVE A MINIMUM OF TWO BOLTS PER SECTION OR AS INDICATED ON DRAWINGS.</p> <p>13. PROVIDE 1 X 4 BRIDGING OR SOLID BLOCKING AT 8'-0" MAXIMUM CENTERS FOR JOISTS AND RAFTERS.</p> <p>14. DO NOT NOTCH OR DRILL JOISTS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.</p> <p>15. PROVIDE DOUBLE JOISTS UNDER ALL STUD PARTITIONS RUNNING PARALLEL TO FLOOR JOISTS.</p> <p>16. SUBMIT ROOF I JOIST FRAMING LAYOUT SHOP DRAWING FOR REVIEW BY EOR.</p> <p>17. PROVIDE (2) SIMPSON ST6224 STRAPS AT ALL LOCATIONS WHERE BOTH TOP PLATES ARE THROUGH CUT.</p> <p>18. ROOF JOISTS SHALL BE ANCHORED TO TOP PLATES WITH ONE SIMPSON H3 HANGER AT EACH BEARING POINT.</p> <p>19. ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS SHALL HAVE SHEATHING ON EACH FACE FASTENED @ 6" OC ALONG ALL PANEL EDGES (FULLY BLOCKED). AT GYPSUM WALL BOARD USE 6d COOLER NAILS AND AT WOOD SHEATHING USED 8d NAILS MINIMUM.</p> <p>SUPPLEMENTAL NOTES</p> <p>SPECIAL INSPECTION</p> <p>IBC REQUIREMENTS</p> <p>THE FOLLOWING WORK ITEMS REQUIRE SPECIAL INSPECTION PER IBC SECTION 1701 AND 1704. THE SPECIAL INSPECTION AND THE COST ASSOCIATED THEREWITH WILL BE PAID BY THE OWNER. THE ITEMS THAT REQUIRE SPECIAL INSPECTIONS ARE:</p> <p>A. 1705.3 CONCRETE CONSTRUCTION - REF TABLE 1705.3 FOR REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION B. 1705.5 WOOD CONSTRUCTION - REF SECTION 1704.2.5 FOR PREFABRICATED WOOD ELEMENTS AND ASSEMBLIES. REF SECTION 1705.5 FOR SITE-BUILT ASSEMBLIES. C. 1705.6 SOILS - REF SECTION 1705.6 AND TABLE 1705.6 FOR REQUIRED VERIFICATION AND INSPECTION OF SOILS.</p>
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SHEET INDEX - STRUCTURAL		
DD Issue	CD Issue	SHEET NAME
		SHEET T #
		S-001 STRUCTURAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES
		S-101 STRUCTURAL PLANS / DETAILS
		S-201 FOUNDATION DETAILS
		S-301 FRAMING DETAILS

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Scale: 1/8" = 1'-0"

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Design Date: -	Print Date: 06/11/2014
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6/11/2014

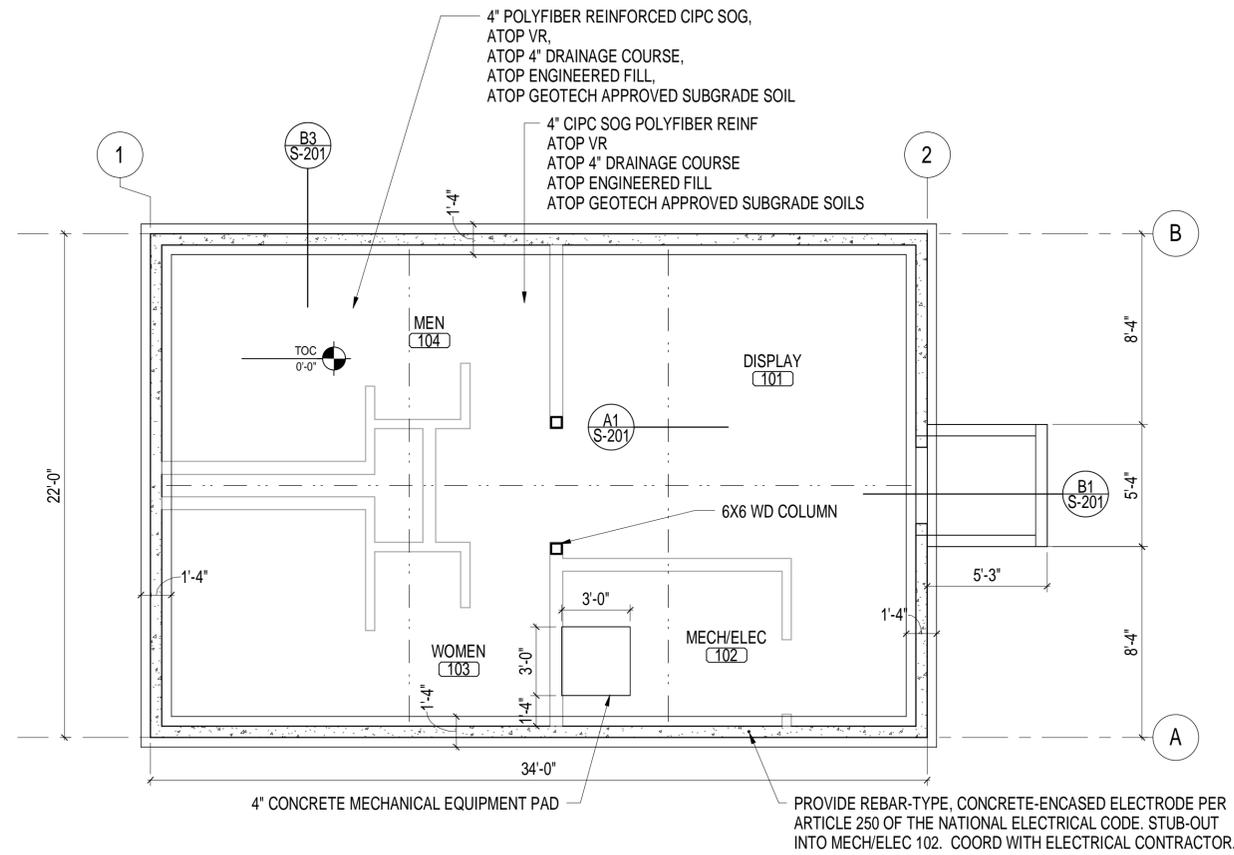
City of Deadwood Gateway Parking

Sheet Title:	S-001 STRUCTURAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES	Sheet:	13
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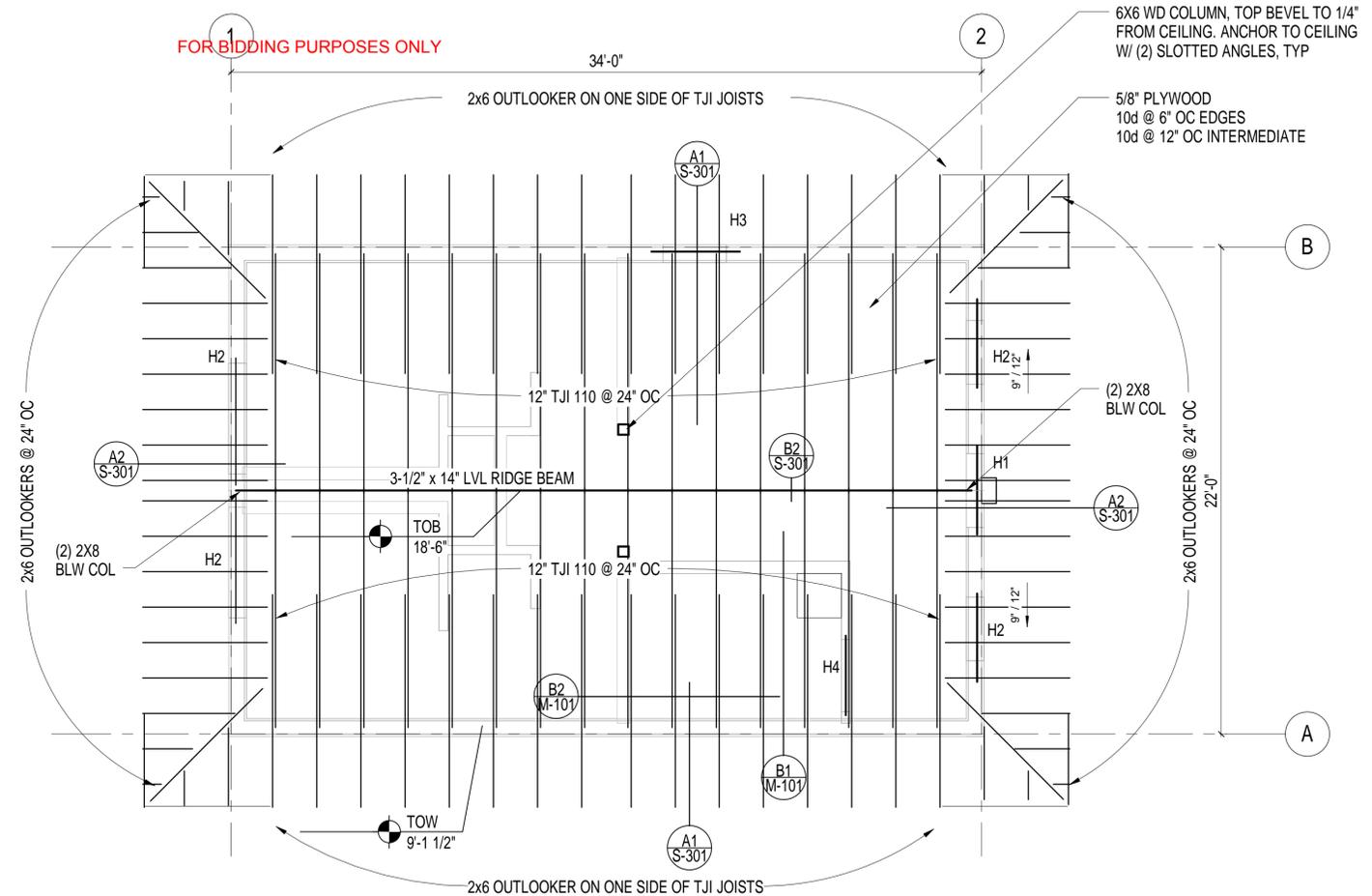
GENERAL NOTES: STRUCTURAL PLANS

A. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL COMPLY WITH THE BUILDING CODE AND NFPA.

B. VAPOR RETARDER SHALL BE CLASS A, 10 MIL (MIN) PER ASTM E 1745



A1 FOUNDATION PLAN
1/4" = 1'-0"



A2 ROOF FRAMING PLAN
1/4" = 1'-0"



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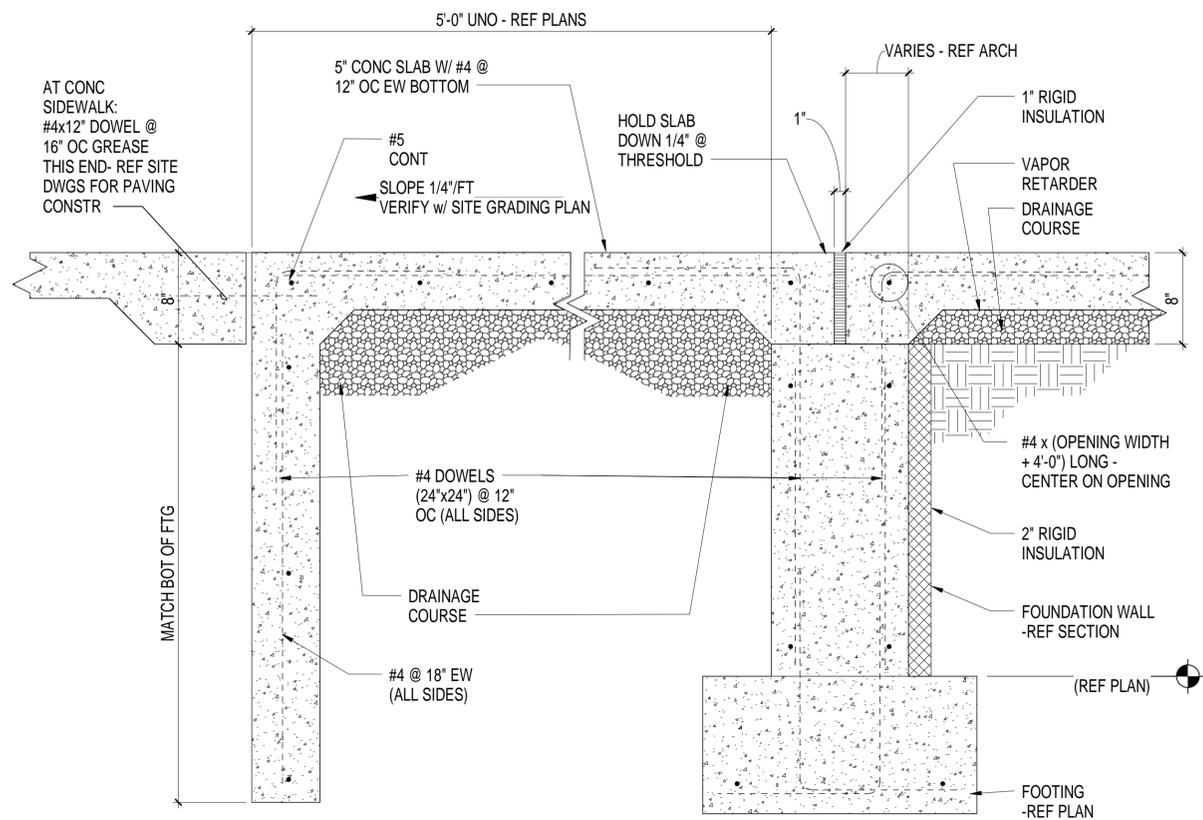
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Sheet Title:

S-101
STRUCTURAL
PLANS / DETAILS

Sheet:

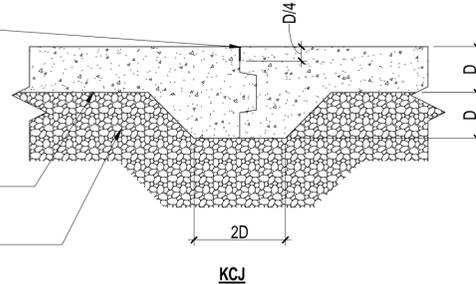
14
of
29



B1 TYPICAL STOOP DETAIL
1 1/2" = 1'-0"

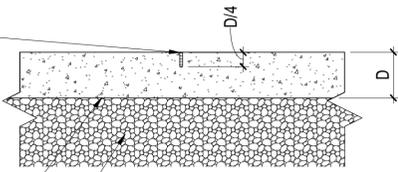
CONTINUOUS FORMED CONTROL JOINT (KCJ) w/ SEALANT @ EXPOSED TO VIEW AREAS AND JOINT FILLER @ COVERED AREAS PER FLOOR COVER MFR

VAPOR RETARDER
DRAINAGE COURSE



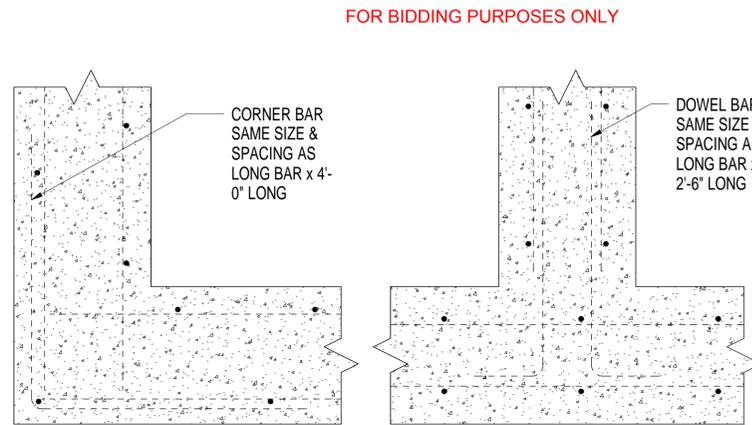
SAWED CONTROL JOINT (CJ) w/ SEALANT @ EXPOSED TO VIEW AREAS AND JOINT FILLER @ COVERED AREAS PER FLOOR COVER MFR

VAPOR RETARDER
DRAINAGE COURSE

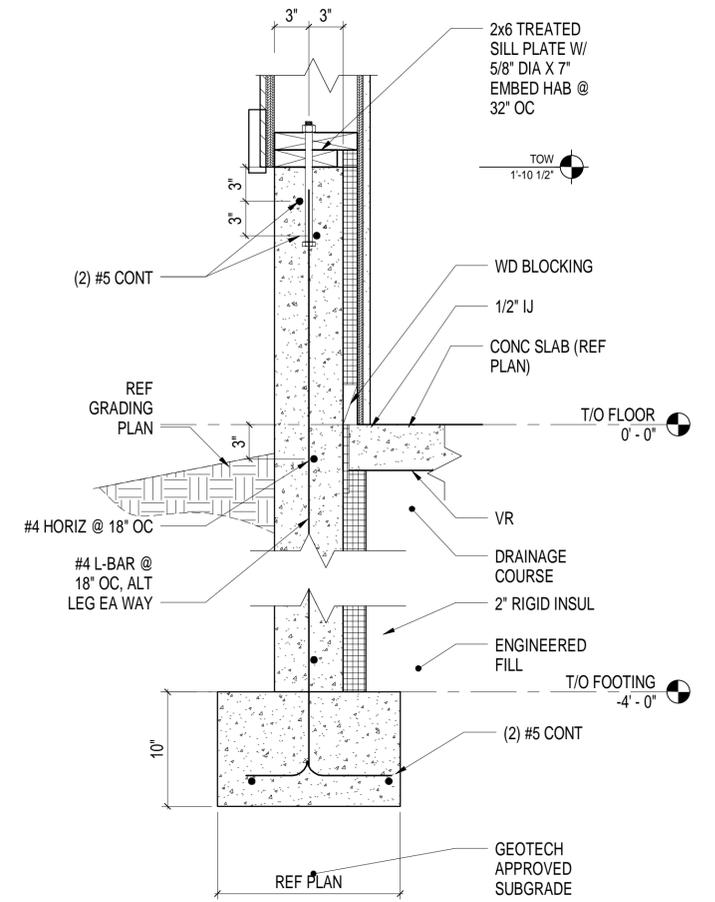


A1 TYP CONTROL/CONSTRUCTION JOINT
1 1/2" = 1'-0"

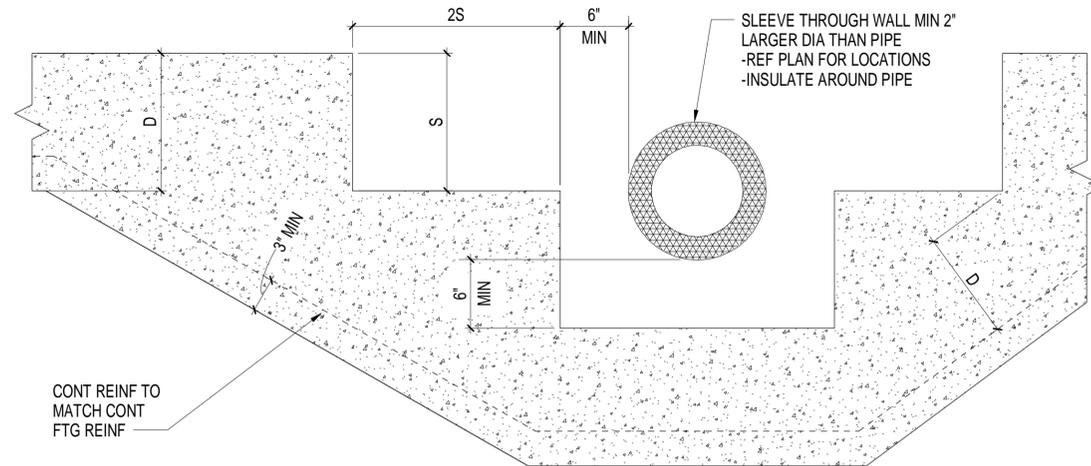
B2 TYPICAL WALL CORNER DETAILS
1 1/2" = 1'-0"



B3 FOUNDATION / EXTERIOR WALL @ FLOOR
1 1/2" = 1'-0"



A2 TYPICAL UTILITY THRU WALL
1 1/2" = 1'-0"



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Sheet Title: S-201 FOUNDATION DETAILS	Sheet: 15 of 29
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