IMPROVEMENT PLANS FOR

DOUGLAS COUNTY
PARKS AND RECREATION DEPARTMENT
KINGSBURY TRAIL HEAD BATHROOM

DOUGLAS COUNTY, NEVADA

OWNER:

DOUGLAS COUNTY
PARKS AND RECREATION DEPARTMENT
1325 Waterloo Lane, Lampe Park
Gardnerville, NEVADA 89410

DESIGN ENGINEER:

WOOD RODGERS
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
1361 Corporate Boulevard Tel 775.823.4068
Reno, NV 89502 Fax 775.823.4066

SHEET INDEX

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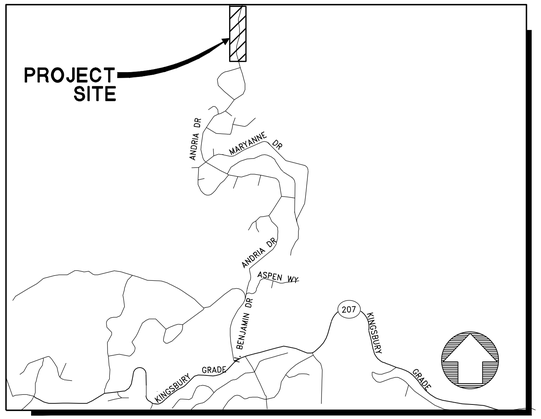

VICINITY MAP

N.T.S.

ENGINEERS STATEMENT:

THESE PLANS, SHEETS T-1 THROUGH E-2, HAVE BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PROCEDURES AND GUIDELINES, AND ARE IN SUBSTANTIAL COMPLIANCE WITH APPLICABLE STATUES, COUNTY ORDINANCES, AND ORANGE BOOK STANDARDS. IN THE EVENT OF A CONFLICT BETWEEN ANY PORTION OF THESE PLANS AND STANDARDS, THE ORANGE BOOK STANDARDS SHALL APPLY.

ELECTRICAL ENGINEER:

JENSEN ENGINEERING INC. Electrical Engineers
9655 Gateway Drive Reno, Nevada 89521-2968
Ph. (775) 852-2288 Fax (775) 852-3388
email: gerald@jeneng.com web: www.jeneng.com

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DOUGLAS COUNTY AND THE DESIGN CONSULTANT HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DOUGLAS COUNTY OR THE DESIGN CONSULTANT.

UNAUTHORIZED CHANGES & USES: THE DESIGN CONSULTANT PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

2 working days Call before you Dig. 1-800-227-2600

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: H: N.T.S. V:
DRAWN BY: STH
DESIGNED BY: STH
CHECKED BY: MAC

STATE OF NEVADA REGISTERED PROFESSIONAL ENGINEER No. 21202 CIVIL Exp. 12-31-19 12/8/17

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Reno, NV 89502 Fax 775.823.4066

IMPROVEMENT PLANS FOR
NORTH KINGSBURY TRAIL HEAD BATHROOM PROJECT
TITLE SHEET
DOUGLAS COUNTY NEVADA

PROJECT NO. 8063.011
DRAWING T-1
SHT 1 OF 12

J:\Jobs\8063.Douglas County Kingsbury Trailhead\Civil\Dwg\COV_JOB TITL_T-1.dwg 12/8/2017 2:48 PM Brian Martinemoles

GENERAL NOTES

1. THESE PLANS, SHEETS T-1 THROUGH H-1, HAVE BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PROCEDURES AND GUIDELINES, AND ARE IN SUBSTANTIAL COMPLIANCE WITH APPLICABLE STATUTES, CITY ORDINANCES OR STANDARDS. IN THE EVENT OF CONFLICT BETWEEN ANY PORTION OF THESE PLANS AND CITY OF RENO STANDARDS, THE STANDARDS SHALL APPLY AND THE ENGINEER SHALL BE CONTACTED IMMEDIATELY.

2. ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE BOOK "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" (LATEST EDITION) ADOPTED AND DISTRIBUTED BY DOUGLAS COUNTY, DOUGLAS COUNTY DESIGN CRITERIA AND IMPROVEMENT STANDARDS, AND INCLUDING ANY ADDITIONS AND MODIFICATIONS THAT ARE SET FORTH IN THE DRAWINGS AND SPECIFICATIONS AND OTHER ORDINANCES AND REGULATIONS THAT MAY APPLY.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND SHORING PROCEDURES AND CONFORM TO THE LATEST O.S.H.A. REQUIREMENTS.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY REMOVAL OF ALL CONSTRUCTION MATERIALS SPILLED ON PAVED STREETS, ONSITE AND OFFSITE.

5. THE CONTRACTOR SHALL PURSUE THE WORK IN A CONTINUOUS AND DILIGENT MANNER, CONFORMING TO ALL THE PERTINENT SAFETY REGULATIONS, TO INSURE A TIMELY COMPLETION OF THE PROJECT.

6. THE CONTRACTOR SHALL NOTIFY ALL ENTITIES INVOLVED (PUBLIC AND PRIVATE) 48 HOURS PRIOR TO BEGINNING CONSTRUCTION, AND PROVIDE 48 HOURS PRIOR NOTICE FOR ALL SURVEYING AND INSPECTIONS DURING CONSTRUCTION.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SIGNING, BARRICADES AND TRAFFIC DELINEATION TO CONFORM TO THE STATE OF NEVADA, DEPARTMENT OF TRANSPORTATION, "NEVADA WORK ZONE TRAFFIC CONTROL MANUAL".

8. THE WORK IN THIS CONTRACT INCLUDES ALL ONSITE AND OFFSITE WORK SHOWN ON THESE DRAWINGS, DESCRIBED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED.

9. SHOULD ANY PREHISTORIC OR HISTORIC REMAINS/ARTIFACTS BE DISCOVERED DURING SITE DEVELOPMENT, WORK SHALL TEMPORARILY BE HALTED AT THE SPECIFIC SITE AND THE DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, DIVISION OF HISTORIC PRESERVATION AND ARCHEOLOGY, SHALL BE NOTIFIED TO RECORD AND PHOTOGRAPH THE SITE. THE PERIOD OF TEMPORARY DELAY SHALL BE LIMITED TO A MAXIMUM OF TWO WORKING DAYS FROM THE DATE OF NOTIFICATION.

10. ALL DIMENSIONS AND DISTANCES ARE TO BACK OF CURB, CURB RETURN, FACE OF BUILDING, FACE OF WALL, FLOW LINE, PROPERTY LINE, CENTER OF STRIPING, CENTER LINE OF PIPE, OR END OF IMPROVEMENTS UNLESS OTHERWISE NOTED.

11. THE CONTRACTOR SHALL, AT ALL TIMES DURING CONSTRUCTION, PROTECT FROM DAMAGE EXISTING IMPROVEMENTS ON AND AROUND THE SITE, INCLUDING, BUT NOT LIMITED TO, PAVEMENT, CURB & GUTTER, SIDEWALK, LANDSCAPING, SIGNAGE, STORM & SANITARY SEWERS, AND ALL UTILITIES. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE REPAIR OF ANY IMPROVEMENTS (EXISTING OR PROPOSED) DAMAGED THROUGHOUT THE COURSE OF CONSTRUCTION.

12. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES EMERGENCY ACCESS TO THE PROJECT SITE TO THE SATISFACTION OF THE TAHOE DOUGLAS FIRE PROTECTION DISTRICT.

13. THE CONTRACTOR SHALL, UPON COMPLETION OF THE PROJECT, PREPARE AND SUBMIT TO THE OWNER RECORD DRAWINGS INDICATING BY DIMENSION AND DESCRIPTION ANY FACILITY CONSTRUCTED CONTRARY TO THAT SHOWN ON THESE PLANS.

14. ALL QUANTITIES SHOWN HEREIN ARE APPROXIMATE AND USED FOR PERMIT AND BOND PURPOSES ONLY. THEY SHALL NOT BE USED IN ANY WAY FOR BIDDING OR CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONDUCT QUANTITY TAKE-OFFS FOR BIDDING AND CONSTRUCTION PURPOSES.

15. SHOULD AN OBVIOUS PROBLEM BE OBSERVED, THE ENGINEER OF RECORD SHALL BE INFORMED IMMEDIATELY, AND THE ENGINEER OF RECORD SHALL REQUIRE CORRECTIVE ACTION.

16. THE CONTRACTOR SHALL COMPLY WITH ALL PERMITTING REQUIREMENTS AS ISSUED BY DOUGLAS COUNTY, THE KINGSBURY GENERAL IMPROVEMENT DISTRICT (KGID), AND/OR TAHOE REGIONAL PLANNING AGENCY (TRPA).

UTILITY NOTES

1. ALL WATER AND SEWER LINES SHALL HAVE A MINIMUM OF A 10' HORIZONTAL SEPARATION OR AN 18" VERTICAL SEPARATION AT CROSSINGS. IN THE EVENT THAT THE WATER MAIN IS TO CROSS BELOW OR WITHIN 18" OF THE SANITARY SEWER MAIN, THE SEWER MAIN SHALL BE DUCTILE IRON OR ENCASED IN CONCRETE FOR A MINIMUM OF 10' ON EITHER SIDE OF THE WATER MAIN.

2. PVC SEWER PIPE SHALL BE CLASS SDR-35 UNLESS OTHERWISE NOTED AND CONFORM TO ASTM D3034. INSTALLATION SHALL BE IN ACCORDANCE WITH UNIBELL PLASTIC PIPE ASSOCIATION STANDARDS AND RECOMMENDED PRACTICES.

3. ALL REINFORCED CONCRETE PIPE SHALL BE CLASS III UNLESS OTHERWISE NOTED.

4. ALL EXISTING UTILITIES BEING TIED INTO SHALL BE EXPOSED TO CHECK FOR GRADE CONFORMANCE TO THOSE SHOWN ON THE PLANS. IF A DISCREPANCY OCCURS, CONTACT THE ENGINEER IMMEDIATELY BEFORE PROCEEDING.

5. THE CONTRACTOR SHALL HAVE EXISTING UTILITIES LOCATED BY CALLING "USA" TOLL FREE AT 1-800-227-2600.

6. ALL PVC WATER PIPE SHALL BE PRESSURE TESTED IN ACCORDANCE WITH AWWA C605-05.

BASIS OF BEARINGS

NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983/1994, HIGH ACCURACY REFERENCE NETWORK EXTENSION (NAD 83/94-HARN), AS DETERMINED USING REAL TIME KINEMATIC (RTK) GPS OBSERVATIONS WITH CORRECTIONS TRANSMITTED BY A GNSS BASE STATION FROM NEVADA DEPARTMENT OF TRANSPORTATION MONUMENT 162201. ALL DIMENSIONS SHOWN ARE GROUND DISTANCES. COMBINED GRID-TO-GROUND FACTOR = 1.00027957.

BASIS OF ELEVATION

THE BASIS OF ELEVATION IS BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NGVD 88) AS TAKEN FROM THE NDOT SURVEY MONUMENT LOCATION INFORMATION SYSTEM (LoIS), BENCHMARK #162201 WITH AN ELEVATION OF 7,100.45'. REFERENCE MONUMENT "162201" IS DESCRIBED AS A 0.17 NHD ALUM CAP ON REBAR, STAMPED "162201X". FROM THE "DAGGETT SUMMIT" SIGN @ MP SR207 3.2 GO E 0.55 MI TO ROAD ON RT. TURN RT & GO 200 TO STA ON LT(S), 24 S OF THE SEO ON TOP OF SLOPE & 5.5 N OF THE N END OF A SALT & PEPPER GRANITE BOULDER. POINT IS 47 E OF STA 791004A. AN ORANGE CARSONITE WP SET 3 S.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
		DRAIN MANHOLE
		SEWER MANHOLE
12" D	12" D	DRAIN LINE AND SIZE
		CATCH BASIN
6" S	6" S	SEWER LINE AND SIZE
		CLEAN OUT
0+00 EX.SS	0+00 SS	SEWER SERVICE
8" W	8" W	WATER LINE AND SIZE
8" RCW	8" RCW	RECLAIMED WATER LINE AND SIZE
		WATER LINE REDUCER
		WATER SERVICE
		RECLAIMED WATER IRRIGATION SERVICE
V	V	WATER GATE VALVE
		FIRE HYDRANT
		AIR RELEASE VALVE
		FLUSH VALVE ASSEMBLY
G T E	G T E	GAS, TELEPHONE OR ELECTRIC
		STREET LIGHT
		30" R1 SIGN (STOP)
		TRAFFIC SIGN AS NOTED
X	X	CHAIN LINK FENCE
X X	X X	CHAIN LINK GATE
		DRIVEWAY
		SIDEWALK RAMP
		PROPERTY LINE
		MONUMENT
25 x 31		TREE TO BE REMOVED/RELOCATED
	31.25	SPOT ELEVATION
2.0 TW 44.6 BW 42.6	2.0 TW 44.6 BW 42.6	WALL HEIGHTS TW=TOP OF WALL BW=BOTTOM OF WALL
	HEIGHT OF WALL	
		GRADE BREAK

ABBREVIATIONS

AB	AGGREGATE BASE
AC	ASPHALT CONCRETE PAVEMENT
AVRV	AIR VACUUM RELIEF VALVE
BC	BEGIN CURVE
BM	BENCH MARK
BVC	BEGIN VERTICAL CURVE
BOW	BACK OF WALK
BW	BOTTOM OF WALL
CB	CATCH BASIN
℄	CENTER LINE
CONST	CONSTRUCT
CR	CURB RETURN
CT	COURT
DIP	DUCTILE IRON PIPE
SDMH	STORM DRAIN MANHOLE
DR	DRIVE
E	EAST
EC	END CURVE
ELEV	ELEVATION
EP	EDGE OF PAVEMENT
EX	EXISTING
EXIST	EXISTING
EVC	END OF VERTICAL CURVE
FES	FLARED END SECTION
FG	FINISH GRADE ELEVATION
FH	FIRE HYDRANT
FL	FLOW LINE
FLG	FLANGE
FM	FORCE MAIN
FVA	FLUSH VALVE ASSEMBLY
GR	GRATE
GB	GRADE BREAK
GV	GATE VALVE
HP	HIGH POINT
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
JP	JOINT POLE
L	LEFT
LF	LINEAR FEET
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
N	NORTH
PCC	POINT OF COMPOUND CURVE
PI	POINT OF INTERSECTION
PIVC	POINT OF INTERSECTION VERTICAL CURVE
PL	PROPERTY LINE
PP	POWER POLE
R, R=	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
PRC	POINT OF REVERSE CURVATURE
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
RCW	RECLAIMED WATER
R	RIGHT
RW	RIGHT OF WAY
S	SOUTH
SE	SANITARY SEWER EASEMENT
SHT	SHEET
STA	STATION
SS	SANITARY SEWER SERVICE
SSMH	SANITARY SEWER MANHOLE
SW	SIDEWALK
T	TANGENT
TBC,TC	TOP BACK OF CURB
TYP	TYPICAL
TP	TELEPHONE POLE
TW	TOP OF WALL
W	WEST
WM	WATER MAIN

2 working days Call before you Dig. 1-800-227-2600

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: H: N.T.S. V:
DRAWN BY: STH
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STATE OF NEVADA BRIAN M. HERMES No. 21202 PROFESSIONAL ENGINEER CIVIL Exp. 12-31-19 12/8/17

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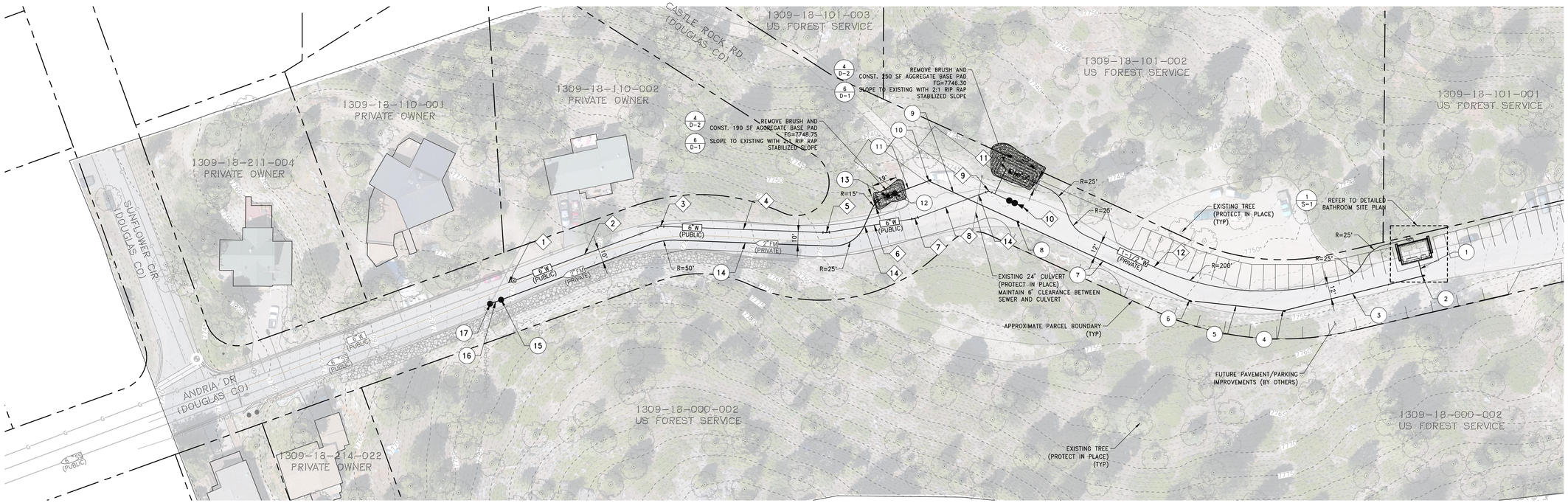
Tel 775.823.4068 Fax 775.823.4066

IMPROVEMENT PLANS FOR
NORTH KINGSBURY TRAIL HEAD BATHROOM PROJECT
NOTES, LEGEND AND ABBREVIATIONS
DOUGLAS COUNTY NEVADA

PROJECT NO. 8063.011

DRAWING N-1

SHT 2 OF 12



SEWER CONSTRUCTION NOTES:

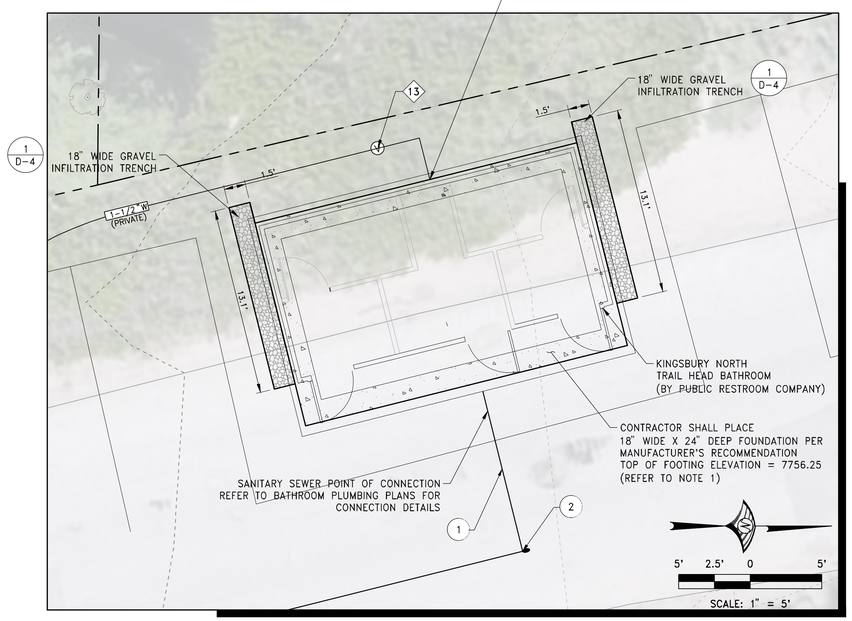
1. CONST. 12 LF OF 4" SDR35 PVC SEWER PIPE S=2.0% (PRIVATE) (1/D-2)
   IE(US)=7751.97
   IE(DS)=7751.74
2. CONST. 4" SSCO (PRIVATE) (3/D-2)
   RIM=7755.91
   INV.=7751.74
3. CONST. 109 LF OF 4" SDR35 PVC SEWER PIPE S=3.0% (PRIVATE) (1/D-2)
   IE(US)=7751.74
   IE(DS)=7748.47
4. CONST. 4" SSCO (PRIVATE) (3/D-2)
   RIM=7752.80
   INV.=7748.47
5. CONST. 71 LF OF 4" SDR35 PVC SEWER PIPE S=3.0% (PRIVATE) (1/D-2)
   IE(US)=7748.47
   IE(DS)=7746.33
6. CONST. 4" SSCO (PRIVATE) (3/D-2)
   RIM=7750.12
   INV.=7746.33
7. CONST. 144 LF OF 4" SDR35 PVC SEWER PIPE S=3.0% (PRIVATE) (1/D-2)
   IE(US)=7746.33
   IE(DS)=7742.02
8. CONST. 4" SSCO (PRIVATE) (3/D-2)
   RIM=7745.91
   INV.=7742.02
9. CONST. 74 LF OF 4" SDR35 PVC SEWER PIPE S=1.0% (PRIVATE) (1/D-2)
   IE(US)=7742.02
   IE(DS)=7741.28
10. CONST. 4" SSCO (PRIVATE) (3/D-2)
    RIM=7746.09
    INV.=7741.28
11. CONST. 27 LF OF 4" SDR35 PVC SEWER PIPE S=1.0% (PRIVATE) (1/D-2)
    IE(US)=7741.28
    IE(DS)=7741.01
12. CONST. SANITARY LIFT STATION (PRIVATE) (1/D-1)
    RIM=7744.37
    INV.=7741.01
    CONSRUCT (4) BOLLARDS AROUND LIFT STATION AND EXTERNAL CONTROL PANEL ASSEMBLY
13. CONSTRUCT PIG VAULT (5/D-1)
14. CONST. 325± LF OF 2" HDPE PIPE SANITARY FORCE MAIN (PRIVATE) (1/D-2)
15. CONST. SSMH (48") (PRIVATE) (2/D-2)
    RIM=7700.40±
    IE(IN)=7766.40 (2"-N)
    IE(OUT)=7765.38 (6"-S)
16. CONST. 9 LF OF 6" SDR35 PVC SEWER PIPE S=2.0% (PRIVATE) (1/D-2)
    IE(US)=7765.38
    IE(DS)=7764.42
17. CONST. SSMH (48") (PUBLIC) (2/D-2)
    RIM=7769.14±
    IE(IN)=7765.42 (6"-N)
    IE(OUT)=7765.32 (6"-S)

WATER CONSTRUCTION NOTES:

1. CONNECT TO EXISTING WATER MAIN W/ 6" PO GATE VALVE REMOVE EXISTING THRUST BLOCK (AS NECESSARY) (2/D-3)
2. CONST. 123 LF OF 6" PVC C900 WATER MAIN (PUBLIC) (1/D-2)
3. INSTALL 45° PUSH-ON ELBOW (6") W/ THRUST BLOCK (4/D-3)
4. CONST. 126 LF OF 6" PVC C900 WATER MAIN (PUBLIC) (1/D-2)
5. INSTALL 11.25° PUSH-ON ELBOW (6") W/ THRUST BLOCK (4/D-3)
6. CONST. 68 LF OF 6" PVC C900 WATER MAIN (PUBLIC) (1/D-2)
7. INSTALL 11.25° PUSH-ON ELBOW (6") W/ THRUST BLOCK (4/D-3)
8. CONST. 60 LF OF 6" PVC C900 WATER MAIN (PUBLIC) (1/D-2)
9. INSTALL 45° PUSH-ON ELBOW (6") W/ THRUST BLOCK (4/D-3)
10. CONST. 15 LF OF 6" PVC C900 WATER MAIN (PUBLIC) INSTALL 6" FLUSH VALVE ASSEMBLY (1/D-2)
11. REMOVE BRUSH
    INSTALL 1-1/2" SERVICE TAP (5/D-3)
    1" METER ASSEMBLY
    1" BACKFLOW PREVENTION ASSEMBLY
12. INSTALL 345 LF OF 1-1/2" PE C901 WATER SERVICE PIPE (PRIVATE) (1/D-2)
13. INSTALL 1-1/2" SHUTOFF VALVE, FULL PORT, RESILIENT SEATED BALL VALVE WITH 6" PVC VALVE OPERATING CONDUIT AND VALVE BOX (2/D-3)
14. WATER CROSSING
    MAINTAIN 18" MIN SEPARATION W/ WATER OVER SEWER/STORM

NOTES:

1. FINAL PLACEMENT OF THE BATHROOM FACILITY IS DEPENDANT ON PARKING LOT IMPROVEMENTS (BY OTHERS) PER US FOREST SERVICE DESIGN AND CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH DOUGLAS COUNTY ON FINAL PLACEMENT OF THE BATHROOM FACILITY AND UTILITY CONNECTIONS.
2. SANITARY SEWER AND WATER IMPROVEMENTS NOTED AS "PUBLIC" REFER TO KINGSBURY GENERAL IMPROVEMENT DISTRICT (KGID) WHILE IMPROVEMENT NOTED AS "PRIVATE" WILL BE OWNED BY DOUGLAS COUNTY PARKS.
3. REFER TO ELECTRICAL PLANS BY NV ENERGY AND JENSEN ENGINEERING INC. FOR ELECTRICAL IMPROVEMENTS.
4. REFER TO PLANS BY PUBLIC RESTROOM COMPANY FOR RESTROOM FACILITY UTILITY POINTS OF CONNECTION, BUILDING FOUNDATION, AND BUILDING FOOTPRINT. REFER TO NOTE 1.
5. CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL PLANS FOR POWER TO THE BACKFLOW PREVENTION DEVICE ENCLOSURE (HOT BOX) AND SEWER LIFT STATION CONTROL PANEL.
6. EXISTING UTILITY TIE-IN INFORMATION HAS BEEN OBTAINED FROM LIMITED RECORD DRAWING INFORMATION AND FIELD OBSERVATIONS. CONTRACTOR SHALL VERIFY UTILITY LOCATIONS (HORIZONTAL AND VERTICAL) PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES FOUND BEFORE COMMENCING WORK.
7. CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS (PEDESTRIAN AND VEHICULAR) TO THE TRAIL HEAD AT ALL TIMES DURING CONSTRUCTION.
8. REFER TO SHEET D-2 FOR TRENCH, EXCAVATION, BACKFILL, AND PAVEMENT PATCH DETAILS.



1/S-1 BATHROOM DETAILED SITE PLAN
N.T.S.

40' 20' 0 40'
SCALE: 1" = 40'

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: 1"=20'
DRAWN BY: BAM
DESIGNED BY: BAM
CHECKED BY: BAM

STATE OF NEVADA
BRIAN MARTINEZEZ
Exp. 12-31-19
CIVIL
No. 21202
PROFESSIONAL ENGINEER
12/8/17

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SITE AND UTILITY PLAN
DOUGLAS COUNTY NEVADA

PROJECT NO. 8063.011
DRAWING S-1
SHT 3 OF 12

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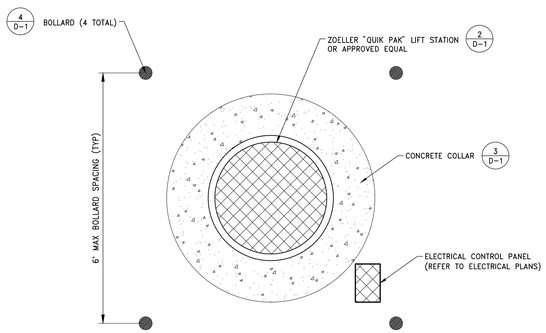
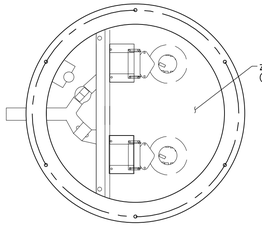


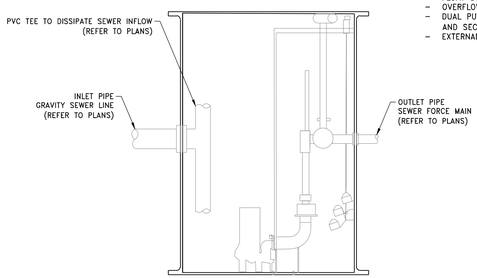
1 D-1 SANITARY LIFT STATION
N.T.S.



PLAN VIEW
N.T.S.

REQUIRED EQUIPMENT:

- ZOELLER QUIK PAK LS BASIN (36"x84") OR EQUAL
- (2) ZOELLER 840 GRINDER PUMPS OR EQUAL. DUAL PUMP SYSTEM WHERE A SINGLE PUMP CAN MEET DEMAND AND SECOND PUMP AVAILABLE AS STANDBY/BACKUP
- PUMP RAIL & DISCONNECT SYSTEM
- SS LIFTING BRACKET & CABLE
- BALL VALVE
- CHECK VALVE
- FLOAT SWITCHES
- OVERFLOW ALARM SYSTEM
- DUAL PUMP SYSTEM WHERE A SINGLE PUMP CAN MEET DEMAND AND SECOND PUMP AVAILABLE AS STANDBY/BACKUP
- EXTERNAL CONTROL PANEL

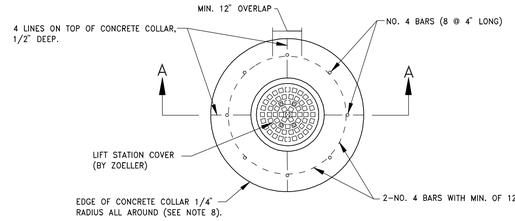


SECTION VIEW
N.T.S.

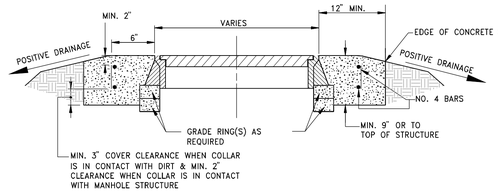
NOTES:

1. SHOULD CONTRACTOR CHOOSE TO SUBMIT ALTERNATE EQUIPMENT, THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL PUMP EQUIPMENT, DESIGN CALCULATIONS, AND MANUFACTURER SPECIFICATIONS FOR REVIEW AND COUNTY APPROVAL PRIOR TO ORDERING MATERIALS FOR EQUIPMENT CAPABLE OF YEAR ROUND OPERATION, 14 GPM MAX DAY INFLOW, AND DESIGN FLOW OF 42 GPM.

2 D-1 ZOELLER "QUIK PAK" LIFT STATION (OR APP'D EQUAL)
N.T.S.



PLAN VIEW
N.T.S.

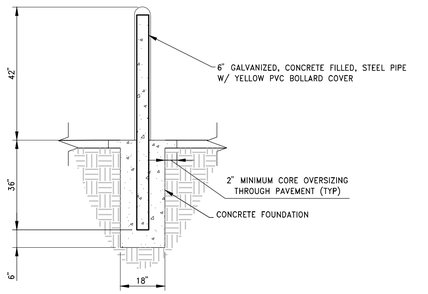


SECTION A-A
N.T.S.

NOTES:

1. A CAST-IN-PLACE CONCRETE COLLAR SHALL BE PLACED AROUND A MANHOLE FRAME UNLESS OTHERWISE DIRECTED. CONCRETE SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX WATER-CEMNT RATION OF 0.45, AIR ENTRAINMENT EQUAL TO 6% ±1.5%, SLUMP OF 1" TO 4". MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE PCC AT 1.5 LBS PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
2. CONCRETE COLLARS MAY BE POURED ROUND, OR ANY OTHER APPROPRIATE SHAPE WHEN APPROVED BY THE ENGINEER.
3. COMMERCIAL PREFABRICATED GRADE RINGS FOR MANHOLES SHALL CONFORM TO AASHTO M 199 (ASTM C-478).

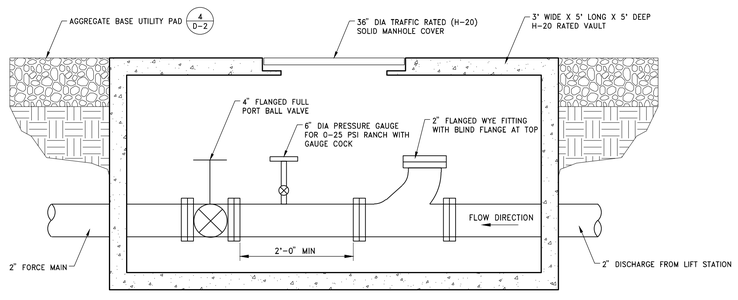
3 D-1 SEWER LIFT STATION CONCRETE COLLAR
N.T.S.



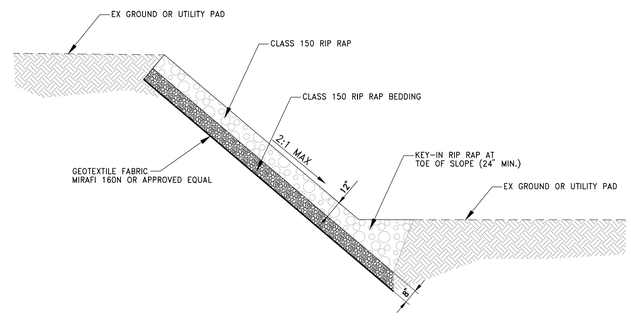
NOTES:

1. LOCATED NOT LESS THAN 3' FROM THE PROTECTED OBJECT.
2. SPACED NOT MORE THAN 6' BETWEEN POSTS ON CENTER.
3. PVC BOLLARD COVER TO BE SECURELY FASTENED PER MANUFACTURER'S RECOMMENDATIONS.
4. CONCRETE SHALL HAVE THE FOLLOWING CHARACTERISTICS: 3000 PSI MIN COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX WATER-CEMNT RATION OF 0.45, AIR ENTRAINMENT EQUAL TO 6% ±1.5%, SLUMP OF 1" TO 4". ALL MATERIALS SHALL CONFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC).

4 D-1 BOLLARD
N.T.S.



5 D-1 PIG VAULT
N.T.S.



NOTES:

1. RIP RAP SHALL CLOSELY MATCH SURROUNDING COLORS. COLORS SHOULD BE SELECTED FROM THE MUNSELL COLORS LISTED IN APPENDIX G, TRPA APPROVED RANCE OF EARTHTONED COLORS, OF THE TRPA DESIGN REVIEW GUIDELINES.

6 D-1 RIP RAP STABILIZED SLOPE
N.T.S.

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: H: N.T.S. V:
DRAWN BY: STH
DESIGNED BY: STH
CHECKED BY: MAC

REGISTERED ENGINEER — BRIAN M. MORTENSEN — STATE OF NEVADA — No. 21262 — CIVIL — Exp. 12-31-19 — PROFESSIONAL ENGINEER — 12/8/17

WOOD RODGERS
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
1361 Corporate Boulevard
Reno, NV 89502
Tel 775.823.4068
Fax 775.823.4066

IMPROVEMENT PLANS FOR
NORTH KINGSBURY TRAIL HEAD BATHROOM PROJECT
DETAIL SHEET
DOUGLAS COUNTY NEVADA

PROJECT NO. 8063.011

DRAWING D-1

SHT 4 OF 12

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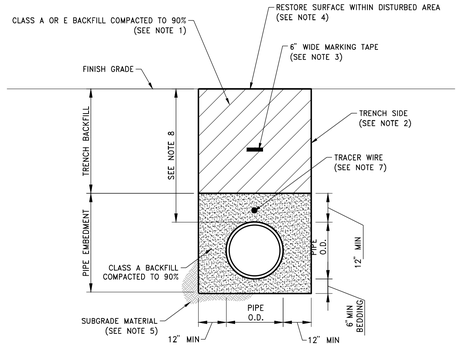


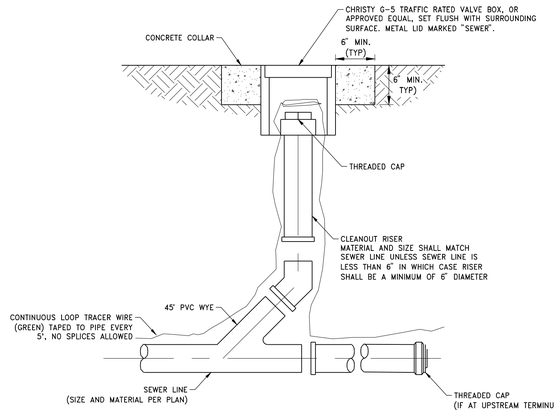
NOTES:

1. WHERE AGGREGATE BASE IS NOT REQUIRED, THE TOP 6" OF THE BACKFILL WITHIN THE EXISTING ROADWAY RIGHT OF WAY SHALL BE COMPACTED TO 95% M.D.D.
2. TRENCH SIDE SLOPE VARIES DEPENDING ON IN-SITU SOIL TYPES, SHORING, SHEETING, AND CONSTRUCITON METHODS MUST COMPLY WITH OSHA STANDARDS.
3. PROVIDE BLUE 6" WIDE WARNING TAPE MARKED "CAUTION BURIED WATERLINE BELOW" PER KGID SPECIFICATIONS FOR ALL INSTALLED WATER MAINS/SERVICES. PROVIDE GREEN 6" WIDE WARNING TAPE MARKED "CAUTION BURIED SEWER LINE BELOW" PER KGID SPECIFICATIONS.
4. RESTORE SURFACE WITHIN DISTURBED AREAS TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION, INCLUDING PAVEMENT, LANDSCAPING, OR REVEGETATION. AC PAVEMENT AND BASE COURSE MUST MEET OR EXCEED THE THICKNESS OF PAVEMENT/BASE SECTION.
5. UNSTABLE OR UNSUITABLE MATERIALS BELOW THE PIPE EMBEDMENT ZONE SHALL BE REMOVED AND REPLACED WITH CLASS D BACKFILL TO A DEPTH OF 18" AS NECESSARY. CONTRACTOR SHALL PROVIDE GEOTEX 451 FABRIC, OR EQUAL, BETWEEN CLASS A AND CLASS D BACKFILL.
6. IF GROUNDWATER IS ENCOUNTERED, DEWATER TRENCH EXCAVATION PER TRPA APPROVED DEWATERING METHODS THROUGHOUT PIPE PLACEMENT, BEDDING, AND BACKFILL OPERATIONS SO AS TO PROVIDE A DRY AND STABLE CONSTRUCTION PLATFORM AND TO ENSURE BEDDING AND BACKFILL MATERIALS DO NOT BECOME SATURATED PRIOR TO COMPLETION OF THE COMPACTION EFFORTS. GROUNDWATER SHALL BE TAKEN OFF-SITE OR TREATED WITH A TRPA APPROVED METHOD.
7. LOCATING WIRE

   WATER MAIN: (#8 AWG, 304SS, BY COPPERHEAD INDUSTRIES) SHALL BE PLACED ABOVE PIPE ALONG WATER MAINLINE SERVICES, TO ALL FIRE HYDRANTS, AND SANITARY SEWER FORCE MAINS. LOOP TRACER WIRE AROUND FIRE HYDRANT ABOVE FLANGE TWO TIMES. TRACER WIRE SHALL BE CONNECTED TOGETHER USING AN APPROPRIATELY SIZED WIRE NUT OR OTHER METHOD PER MANUFACTURER'S SPECIFICATIONS. PRIOR TO ACCEPTANCE OF WATERLINES CONTRACTOR SHALL PERFORM A CONTINUITY TEST ON THE INSTALLED TRACER WIRE SYSTEM.

   SEWER MAIN: CONTINUOUS LOOP TRACER WIRE (GREEN) TAPED TO PIPE EVERY 5'. NO SPLICES ALLOWED.
8. WATER MAIN SHALL MAINTAIN A MINIMUM OF 42" OF COVER MEASURED FROM FINISH GRADE TO THE TOP OF THE PIPE. SANITARY SEWER SHALL MAINTAIN A MINIMUM OF 42" OF COVER MEASURED FROM FINISH GRADE TO THE TOP OF THE PIPE.

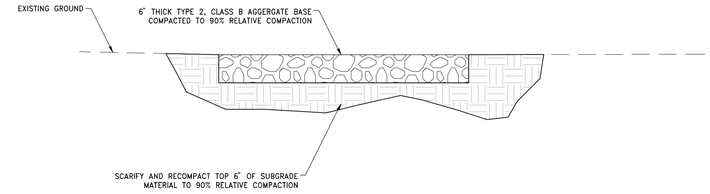
1 / D-2 **TRENCH EXCAVATION & BACKFILL**
N.T.S.



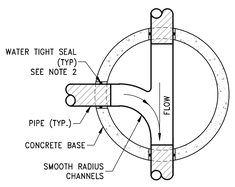
NOTES:

1. VALVE BOX SHALL BE TRAFFIC RATED CHRISTY G-5, OR EQUAL
2. CLEANOUT VALVE BOX SHALL HAVE A 10" MIN INSIDE DIAMETER.
3. ALL NEW VALVE BOXES TO BE SET SHALL ONLY UTILIZE A SINGLE GRADE RING PER BOX.
4. CONCRETE SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX WATER-CEMNT RATION OF 0.45, AIR ENTRAINMENT EQUAL TO 6% ±1.5%, SLUMP OF 1" TO 4". MIX DESIGN SHALL CONFORM TO THE REQUIREMENTS OF SECTION 337 OF STANDARD SPECIFICATIONS OF PUBLIC WORKS CONSTRUCTION (SSPWC). CEMENT SHALL BE TYPE II. ALL CEMENT CONCRETE SHALL HAVE COARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE PCC AT 1.5 LBS PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.

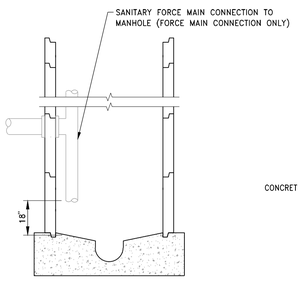
3 / D-2 **SANITARY SEWER CLEANOUT**
N.T.S.



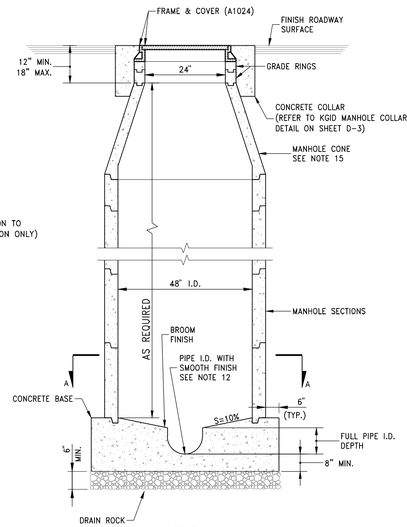
4 / D-2 **AGGREGATE BASE UTLITY PAD**
N.T.S.



SECTION A-A



SANITARY FORCE MAIN CONNECTION TO MANHOLE

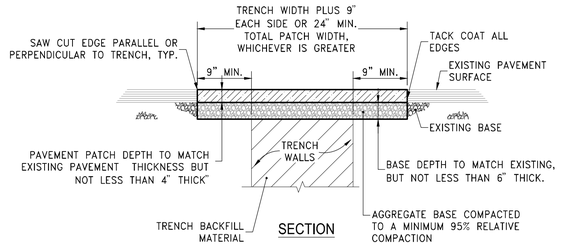


SECTION

NOTES:

1. ALL PRECAST MANHOLE COMPONENTS SHALL CONFORM TO ASTM C-478.
2. PIPES SHALL NOT PROTRUDE MORE THAN 3" INSIDE MANHOLE SECTION AS MEASURED AT THE OUTSIDE EDGES OF THE PIPE, VERTICALLY ALIGNED WITH THE SPRINGLINE. PIPE CONNECTION TO MANHOLE SHALL BE WATERTIGHT.
3. MANHOLE BASE SHALL HAVE THE FOLLOWING CHARACTERISTICS: 3000 PSI MIN COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX WATER-CEMNT RATION OF 0.45, AIR ENTRAINMENT EQUAL TO 6% ±1.5%, SLUMP OF 1" TO 4". ALL MATERIALS SHALL CONFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC). PRECAST CONCRETE BASE MAY BE USED IN LIEU OF CAST-IN-PLACE BASE.
4. TYPE I MANHOLE TO BE UTILIZED FOR PIPE DIAMETERS OF 12" OR SMALLER AND DEPTHS NOT EXCEEDING 18 FEET.
5. MANHOLE MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 204 "MANHOLES AND CATCH BASINS" OF THE STANDARD SPECIFICATIONS.
6. PRECAST MANHOLE SECTIONS, OTHER THAN GRADE RINGS, SHALL BE JOINED WITH FLEXIBLE GASKET MATERIAL SUCH AS "RAM-NEK" OR EQUAL AS PER MANUFACTURER'S RECOMMENDATIONS.
7. EXCAVATION AND BACKFILL SHALL BE AS SPECIFIED FOR "TRENCH EXCAVATION AND BACKFILL" IN SECTION 305 OF THE STANDARD SPECIFICATIONS.
8. EXCAVATION SHALL BE AS NEARLY VERTICAL AS POSSIBLE (SHEET AND SHORE IF SOIL CONDITIONS REQUIRE) IN EXISTING STREET SECTIONS, ALLEY SECTIONS, AND CONFINED AREAS, SUCH AS LIMITED EASEMENTS OR ADJACENT STRUCTURES.
9. MANHOLE PRECAST SECTION LENGTH SHALL BE ARRANGED TO FIT THE REQUIRED DEPTH.
10. NO LATERALS OR PIPES LESS THAN 8" IN DIAMETER SHALL BE CONNECTED TO THE MANHOLE.
11. PRECAST CONCRETE BASE MAY BE USED IN LIEU OF CAST-IN-PLACE BASE.
12. MATCH PIPE INVERTS TO MANHOLE INVERTS WHERE PIPES CONNECT TO MANHOLE BASE.
13. ALL MANHOLES SHALL BE WATERTIGHT.
14. SEE DETAIL FOR OUTSIDE DROP MANHOLE FOR SANITARY SEWERS WITH MORE THAN 2 FEET VERTICAL DROP AT THE MANHOLE. THE USE OF "INSIDE DROP" MANHOLES IS NOT PERMITTED.
15. THE USE OF FLAT TOP MANHOLE CONES REQUIRES PRIOR APPROVAL FROM THE ENGINEER.
16. PRIOR TO BACKFILLING, ALL MANHOLES SHALL BE VACUUM TESTED PER ASTM C-1244.
17. NO STEPS, LADDERS, OR OTHER CLIMBING DEVICES SHALL BE INSTALLED IN THE MANHOLE.
18. REINFORCING STEEL SHALL BE AS SHOWN, WIRED TIGHTLY AT ALL INTERSECTIONS AND EMBEDDED AT LEAST 1½" CLEAR, UNLESS OTHERWISE NOTED.

2 / D-2 **SANITARY SEWER MANHOLE**
N.T.S.



NOTES:

1. AC PAVEMENT SHALL BE TYPE 3 HMA MIX WITH PG64-28NV ASPHALT BINDER, PER SSPWC.
2. IF SAW CUT IS WITHIN 2 FEET OF AN EXISTING PAVEMENT EDGE OR EXISTING PAVEMENT PATCH, REMOVE EXISTING PAVEMENT TO THAT EDGE AND REPLACE ENTIRE SECTION.
3. ALL PERMANENT PATCH REPLACEMENT REQUIREMENTS ARE MINIMUM WIDTHS ONLY AND INCLUDES ALL AREAS WHERE THE ASPHALT PAVEMENT HAS BEEN UNDERMINED. WIDER PAVEMENT PATCH SECTIONS MAY BE NECESSARY BASED ON SITE CONDITIONS.
4. AGGREGATE BASE MATERIAL UNDER BITUMINOUS PAVEMENT PATCH SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
5. FOR P.C.C. CURB REPLACEMENT, SAW CUT EXISTING PAVEMENT 18 INCHES MIN. FROM GUTTER LIP LINE. REMOVE AND REPLACE PAVEMENT TO SAW CUT EDGES. CONCRETE MAY BE POURED NEAT AGAINST EXISTING EDGE OF ASPHALT IF APPROVED BY THE ENGINEER.

5 / D-2 **PERMANENT AC PAVEMENT PATCH**
N.T.S.

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: H: N.T.S. V:
DRAWN BY: STH
DESIGNED BY: STH
CHECKED BY: MAC

WOOD RODGERS
BUILDING RELATIONSHIPS ONE PROJECT AT A TIME
1361 Corporate Boulevard
Reno, NV 89502
Tel 775.823.4068
Fax 775.823.4066

IMPROVEMENT PLANS FOR
NORTH KINGSBURY TRAIL HEAD BATHROOM PROJECT
DETAIL SHEET

DOUGLAS COUNTY NEVADA

PROJECT NO. 8063.011

DRAWING D-2

SHT 4 OF 12

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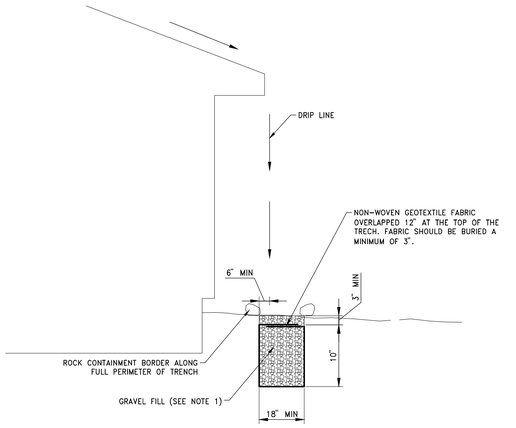
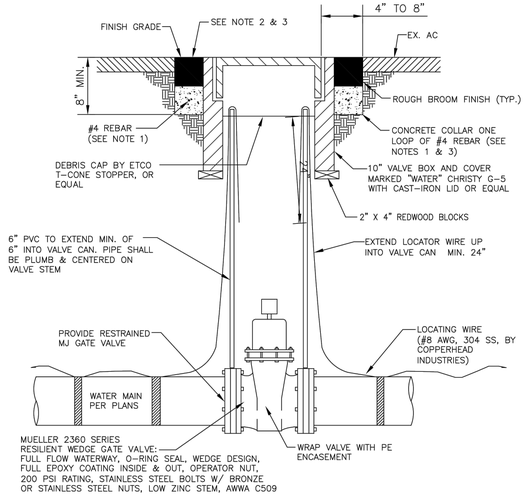


NOTES:

1. GRAVEL SHOULD BE ANGULAR, WASHED, AND UNIFORMLY GRADED TO 3/4" TO 1-1/2" IN DIAMETER.
2. THE BOTTOM OF THE TRENCH SHALL BE FLAT WHICH SHOULD BE CONSIDERED LESS THAN 2% IN ANY DIRECTION.
3. INFILTRATION TRENCH SHALL BE CONSTRUCTED PER TRPA BMP HANDBOOK.

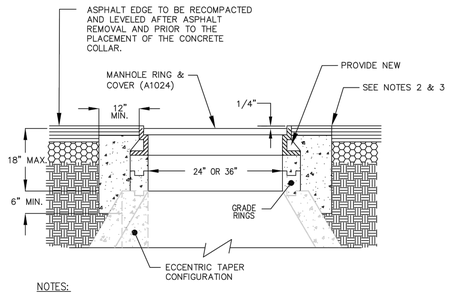
1 D-3 **INFILTRATION TRENCH**
N.T.S.



GENERAL NOTES

1. CONCRETE SHALL MEET THE REQUIREMENTS OF SECTION 202.12 OF THE SSPWC. REBAR SHALL ONLY BE USED WHEN THE VALVE BOX IS LOCATED OUTSIDE PAVED AREAS.
2. IN ALL AREAS, LIDS SHALL BE SET FLUSH WITH FINISHED GRADE UNLESS OTHERWISE NOTED.
3. THE CONCRETE COLLAR SHALL BE LEFT 2-1/2" - 3" BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH TYPE 3 AC PAVING. CHIP OR FOG SEAL PAVED SURFACE. EXCEPTION: WHEN STRUCTURE IS NOT LOCATED IN ASPHALT PAVEMENT OR IN AN UNPAVED AREA. EXTEND CONCRETE TO FINISH GRADE. ALL CUTS IN AC SHALL BE STRAIGHT AND EVEN.
4. SPLICES IN WIRE SHALL BE SOLDER OR WIRE NUTS AND WRAPPED WITH UL LISTED ELECTRICAL TAPE.

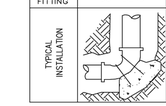
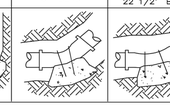
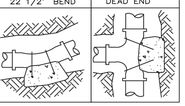
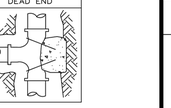
2 D-3 **GATE VALVE AND VALVE BOX**
N.T.S.



NOTES:

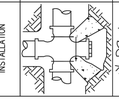
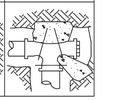
1. CONCRETE COLLAR TO BE PORTLAND CEMENT CONCRETE (P.C.C.) WITH THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5% AND SLUMP AT 1 TO 4 INCHES. ALL MATERIAL SHALL CONFORM TO SSPWC SECTION 202.
2. IN ALL PAVED AREAS, LIDS SHALL BE SET 1/4" BELOW FINISHED GRADE UNLESS OTHERWISE NOTED.
3. THE CONCRETE COLLAR SHALL BE LEFT 2-1/2" - 3" BELOW FINISHED ASPHALT SURFACE. APPLY AN APPROVED TACK COAT AND FILL VOID BETWEEN ADJACENT PAVEMENT AND FRAME WITH AC PAVING. CHIP OR FOG SEAL PAVED SURFACE. EXCEPTION: WHEN STRUCTURE IS NOT LOCATED IN ASPHALT PAVEMENT OR IN AN UNPAVED AREA. EXTEND CONCRETE TO FINISH GRADE. ALL CUTS IN AC SHALL BE STRAIGHT AND EVEN.

3 D-3 **MANHOLE COLLAR**
N.T.S.

TYPE OF FITTING	90° BEND	45° BEND	11 1/4° OR 22 1/2° BEND	TEE OR DEAD END
TYPICAL INSTALLATION				

THRUST BLOCK BEARING AREA (SQ. FT.)

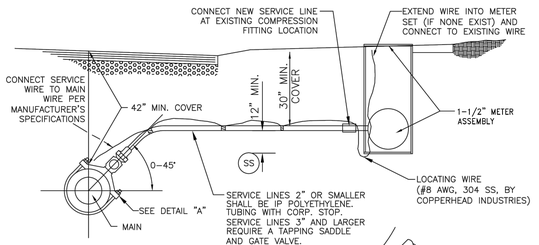
TYPE OF FITTING	90° BEND	45° BEND	11 1/4° OR 22 1/2° BEND	TEE OR DEAD END	TEE W/PLUG	CROSS W/PLUG
SIZE OF PIPE 4"	2	1	1	2	2	2
6"	4	4	2	4	4	4
8"	7	4	2	5	7	7
10"	12	6	3	8	12	12
12"	16	10	5	12	16	16
14"	20	12	6	14	20	20
16"	27	15	8	18	27	27
18"	45	25	13	32	45	45
24"	65	35	18	46	65	65

TYPE OF FITTING	CROSS W/PLUG	TEE W/PLUG
TYPICAL INSTALLATION		

NOTES:

1. THRUST BLOCKS TO BE CONSTRUCTED OF 4000 PSI @ 28 DAYS CONCRETE.
2. AREAS GIVEN ARE FOR CLASS 150 PIPE AT TEST PRESSURE OF 150 P.S.I., WITH 2000 P.S.F. BEARING CAPACITY. INSTALLATIONS USING DIFFERENT PIPE, TEST PRESSURES, AND/OR SOIL TYPES SHOULD HAVE AREAS ADJUSTED ACCORDINGLY, SUBJECT TO THE APPROVAL OF THE ENGINEER.
3. BLOCKS TO BE POURED AGAINST UNDISTURBED SOIL.
4. JOINTS AND FACE OF PLUG TO BE KEPT CLEAR OF CONCRETE.
5. #4 REBAR
6. ALL BENDS SHALL BE RESTRAINED MECHANICALLY IN ADDITION TO CONCRETE THRUST BLOCKS.

4 D-3 **THRUST BLOCK BEARING**
N.T.S.

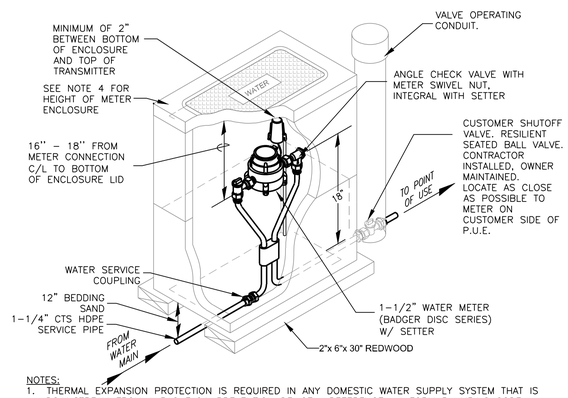


DETAIL "A"

GENERAL NOTES

1. ALL SERVICE LINE COUPLING FITTINGS SHALL BE MUELLER IPS 110 COMP. x MIP.
2. ALL SERVICE VALVES SHALL BE SAME SIZE AS SERVICE LINES (ON 3" SERVICE, USE 4" GATE VALVE AND PIPE).
3. SERVICE CLAMPS SHALL BE FACTORY COATED EPOXY WITH STAINLESS STEEL BAND.
4. MINIMUM DISTANCE BETWEEN TAPS AND MAINLINE FITTINGS, INCLUDING BELLS SHALL BE 18".
5. TAPPING SADDLES 3" OR LARGER SHALL BE STAINLESS STEEL, HAVE A FULL CIRCUMFERENTIAL SEAL AND HAVE EITHER A STAINLESS STEEL OR DUCTILE IRON FLANGE.
6. ALL PLUMBING SHALL BE DISCONNECTED FROM CORP AND PLUGGED AT BOTH ENDS. WATER UTILITY SHALL BE NOTIFIED FOR INSPECTION OF CORP ASSEMBLY PRIOR TO BACKFILLING.
7. ALL NEW SERVICE LINES SHALL CONNECT TO EXISTING METER PIT SETTER AT EXISTING COMPRESSION FITTING LOCATION.
8. IF EXISTING COMPRESSION FITTING IS CTS, IT SHALL BE REMOVED AND REPLACED WITH AN IPS COMPRESSION FITTING TO FIT THE NEWLY INSTALLED PE SERVICE LINE.

5 D-3 **WATER SERVICE TAP**
N.T.S.



NOTES:

1. THERMAL EXPANSION PROTECTION IS REQUIRED IN ANY DOMESTIC WATER SUPPLY SYSTEM THAT IS DOWNSTREAM FROM A BACKFLOW PREVENTION DEVICE. REFERENCE: UNIFORM PLUMBING CODE.
2. FOR DRIVEWAY OR TRAFFIC AREAS USE 13x24 ENCLOSURE APPROVED FOR TRAFFIC RATED H/20 LOADING. SEE DETAIL 10K-17.
3. TOP OF METER ENCLOSURE SHALL BE SET 0.2 FEET ABOVE HIGHEST FINISHED GRADE SURROUNDING ENCLOSURE WITHIN LANDSCAPED AREAS, AND SHALL BE SET FLUSH WITH SURROUNDING FINISH GRADE IN TRAFFIC AREAS.
4. ENCLOSURE TO BE BACKFILLED WITH WATER PIPE BEDDING SAND ONLY
5. BLANKET TO BE INSTALLED ABOVE METER AND BELOW TRANSMITTER.

6 D-3 **WATER METER ASSEMBLY**
N.T.S.

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: H: N.T.S. V:
DRAWN BY: BAM
DESIGNED BY: BAM
CHECKED BY: MAC

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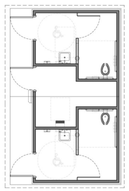
IMPROVEMENT PLANS FOR
NORTH KINGSBURY TRAIL HEAD BATHROOM PROJECT
DETAIL SHEET
DOUGLAS COUNTY NEVADA

PROJECT NO. 8063.011

DRAWING D-3

SHT 6 OF 12

PROJECT REF#: 10129-11/6/2017-5



FLOOR PLAN
SCALE: NOT TO SCALE

KINGSBURY NORTH TRAILHEAD
DOUGLAS COUNTY, NEVADA

RESTROOM BUILDING

ARTIST IMPRESSION; 3D RENDERING ONLY FOR REPRESENTATION; COLORS AND MATERIALS ARE SUBJECT TO CHANGE

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www.PublicRestroomCompany.com
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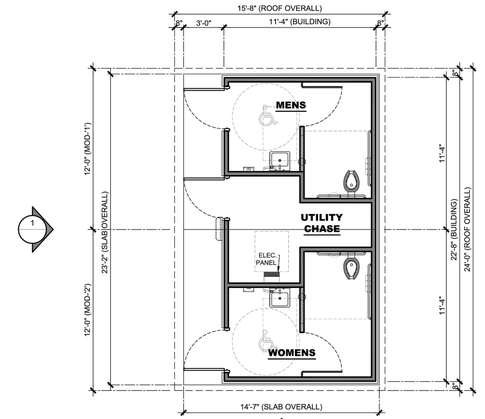
MINDEN NEVADA 89423
P: 888-888-2060 F: 888-888-1448

PROJECT REF#: 10129-11/6/2017-5



1

FLOOR PLAN
SCALE: 3/16"=1'0"

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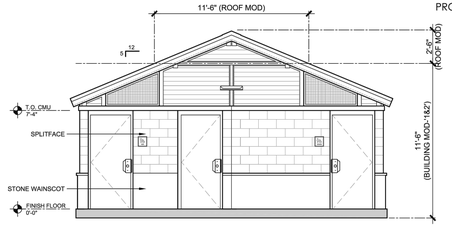
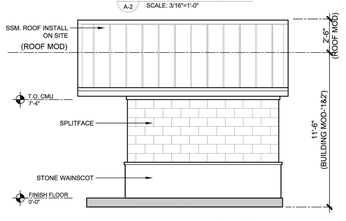
~NOT FOR CONSTRUCTION ~ PRELIMINARY DESIGN DRAWING ONLY ~ DO NOT SCALE, DIMENSIONS PRESIDE

PROJECT REF#: 10129-11/6/2017-5



1 / A-2 **ELEVATION 1**
SCALE: 3/16"=1'-0"



2 / A-2 **ELEVATION 2**
SCALE: 3/16"=1'-0"

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NOTES:

1. THE ABOVE DETAILS WERE PREPARED, DESIGNED, AND PROVIDED BY PUBLIC RESTROOM COMPANY.

1 / D-4 **BATHROOM FACILITY DETAILS**
N.T.S.

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: H: N.T.S. V:
DRAWN BY: BAM
DESIGNED BY: BAM
CHECKED BY: MAC

12/8/17

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IMPROVEMENT PLANS FOR
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PUBLIC RESTROOM COMPANY DETAILS
DOUGLAS COUNTY NEVADA

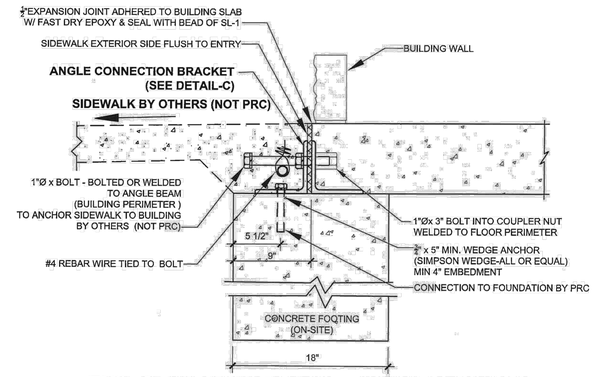
PROJECT NO. 8063.011

DRAWING D-4

SHT 7 OF 12

J:\Jobs\8063_DouglasCounty\Kingsbury Trailhead\Civil\Dwg\C07_KBYTRL_D-4.dwg 12/8/2017 2:49 PM Brian Martinezmoles

SITE CONTRACTOR NOTE:
BOTTOM OF PRE-FAB SLAB BUILDING MANUFACTURER IS DEAD FLAT. FOOTING TOP & COMPACTED BACKFILL MUST BE DEAD LEVEL.
POUR FOOTING WITH LASER TRANSIT TO VERIFY TOP OF FOOTING. IF SHIM PLATE IS REQUIRED A CHANGE ORDER IS REQUIRED.



(B) TYP. SLAB / FOUNDATION CONNECTION DETAIL

SEE GENERAL SITE CONDITION LIABILITY NOTE ON " PAD PREPARATION RESPONSIBILITY" PAGE

REVISION BY:	REVISION DATE:	REVISION #

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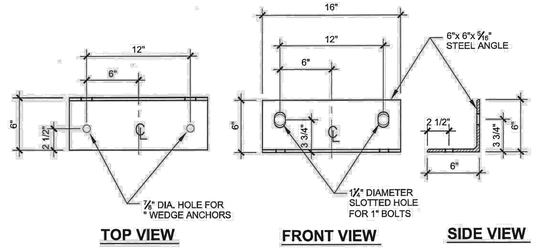
BUILDING TYPE:	RESTROOM BUILDING	DATE: 10-17-2017	DRAWN BY: EVE
PROJECT:	KINGSBURY NORTH TRAILHEAD DOUGLAS COUNTY, NV	PROJECT #10129	MAXIMUM PERSON AN HOUR: 180 M

-NOT FOR CONSTRUCTION – PRELIMINARY DESIGN DRAWING ONLY – DO NOT SCALE, DIMENSIONS PRESIDE

SITE CONTRACTOR NOTE:
BOTTOM OF PRE-FAB SLAB BUILDING MANUFACTURER IS DEAD FLAT. FOOTING TOP & COMPACTED BACKFILL MUST BE DEAD LEVEL.
POUR FOOTING WITH LASER TRANSIT TO VERIFY TOP OF FOOTING. IF SHIM PLATE IS REQUIRED A CHANGE ORDER IS REQUIRED.



(C) TYP. SLAB / FOUNDATION CONNECTION DETAIL

SEE GENERAL SITE CONDITION LIABILITY NOTE ON " PAD PREPARATION RESPONSIBILITY" PAGE

REVISION BY:	REVISION DATE:	REVISION #

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BUILDING TYPE:	RESTROOM BUILDING	DATE: 10-17-2017	DRAWN BY: EVE
PROJECT:	KINGSBURY NORTH TRAILHEAD DOUGLAS COUNTY, NV	PROJECT #10129	MAXIMUM PERSON AN HOUR: 180 M

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OWNER / GENERAL CONTRACTOR AND PUBLIC RESTROOM COMPANY RESPONSIBILITIES

PRC (PUBLIC RESTROOM COMPANY)

1. PUBLIC RESTROOM COMPANY (PRC) WILL PROVIDE FULL ARCHITECTURAL PLANS AND ENGINEERING CALCULATIONS, STAMPED BY STATE GOVERNING AGENCY SUITABLE FOR GENERAL CONTRACTOR TO FILE FOR REQUIRED BUILDING PERMIT.

2. PUBLIC RESTROOM COMPANY WILL FURNISH AND INSTALL UNDERGROUND UTILITIES (UNDER SLAB) EXTENDING 6 FEET (MAX) BEYOND THE BUILDING LINE, MIN. OF 24" - MAX OF 36" BELOW GRADE.

GENERAL PAD NOTES:

1. THE DIFFERENCE IN THE ELEVATION BETWEEN THE FINISH FLOOR OF RESTROOMS AND THE SIDEWALK OUTSIDE CAN NOT BE GREATER THAN 1/4" MAX.

2. THE STRUCTURAL DESIGN DETAILS HEREIN ARE SPECIFIC TO THE BUILDING SIZE AND MODULE CONFIGURATION SHOWN ON THE FLOOR PLANS OF THESE DRAWINGS.

3. PUBLIC RESTROOM COMPANY WILL PROVIDE LOCATION OF THIS BUILDING TO MEET ALL REQUIRED PROPERTY CODE SETBACKS PER LOCAL JURISDICTION.

1. OWNER / GEN. CONTRACTOR SHALL PREPARE BUILDING PAD PER DETAILS ON THIS SHEET AND **SCOPE OF WORK.**

2. OWNER / GEN. CONTRACTOR SHALL ATTACH SITE PLAN TO THE PUBLIC RESTROOM COMPANY'S DEPARTMENT OF HOUSING APPROVED DOCUMENTS AND FILE BUILDING PERMIT FOR PLUMBING PERMIT/INSPECTION UNDER BUILDING SLAB

3. OWNER / GEN. CONTRACTOR TO COORDINATE SEWER INVERT WITH THE PUBLIC RESTROOM COMPANY PRIOR TO BUILDING INSTALLATION, VERIFY & COORDINATE LOCATION OF EXISTING UTILITIES INCLUDING WATER METER SIZE, TYPE, AND LOCATION OF EXISTING UTILITIES COMING INTO THE BUILDING SUPPLIED BY PRC

4. OWNER / GEN. CONTRACTOR IS RESPONSIBLE FOR UTILITY CONNECTIONS AND WILL MAKE FINAL CONNECTIONS TO SEWER, WATER AND POWER.

5. OWNER / GEN. CONTRACTOR TO PREPARE SITE FOR MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1,500psf, WITH SUB-GRADE COMPACTED TO 90% M.D.D.

6. OWNER / GEN. CONTRACTOR TO SUPPLY AND STOCK PILE REQUIRED QUANTITY OF COARSE SAND WITHIN BUILDING PROXIMITY FOR USE BY PRC. (ELEVATION OF BASE TO BE DETERMINED AND VERIFIED BY THE GENERAL CONTRACTOR) PAD ELEVATION MUST BE LEVEL WITHIN 2% (+/-) AND COMPLY WITH ALL PERMISSIBLE CODES OF ACCESSIBILITY AND SAFETY. BEFORE BUILDING SET WET SAND FILL TO CONSOLIDATE AND / OR VIBRATE.

7. PROJECTS WITH FOOTINGS: OWNER / GEN. CONTRACTOR MUST PROVIDE SLEEVES IN FOOTINGS ACCORDING TO UTILITY LOCATION PLAN AND PAD / FOUNDATION PLAN DIRECTION.

GENERAL SITE CONDITION LIABILITY NOTE:

PUBLIC RESTROOM COMPANY (PRC) PROVIDES BUILDING PAD PLAN DRAWINGS FOR PLACEMENT OF OUR BUILDING ON SITE PADS FOR **REFERENCE ONLY.** PRC DRAWINGS DO NOT INCORPORATE SITE DESIGN FOR LOCAL CODES, SOILS CONDITIONS, FOOTING REQUIREMENTS, AND/OR ANY OTHER CONTRIBUTING SITE FACTORS UP TO AN INCLUDING HIGH WATER TABLES. IT IS THE RESPONSIBILITY OF THE OWNER OR GENERAL CONTRACTOR TO PROVIDE A PROPER SITE DESIGN TO ACCOMMODATE THE BUILDING AS WELL AS PROVIDE PROPER SITE CRITERIA SO PRC MAY MODEL SEWER, WATER, AND ELECTRICAL DESIGNS WITHIN THE BUILDING. OUR BUILDING DESIGN INCLUDES AN 8" THICK REINFORCED CONCRETE SLAB AND ASSUMES FULL SLAB BEARING ON SOILS WITH A MINIMUM OF 1500 PSF BEARING CAPACITY. OUR BUILDING DESIGNS SURCHARGE THE SOIL BENEATH THE MAT SLAB AT APPROXIMATE 208 PSF. ANY BUILDING FOUNDATION IN ADDITION TO THE INTEGRAL MAT SLAB ARE SHOWN FOR **REFERENCE ONLY** AND SHOULD BE VERIFIED BY A LICENSED SOILS ENGINEER TO CONFORM WITH REQUIRED CODES. **PRC ASSUMES NO LIABILITY FOR THE OWNER OR GENERAL CONTRACTOR ACCEPTANCE OF THESE TYPICAL DRAWINGS WITHOUT VERIFICATION BY A LICENSED SOILS / FOUNDATION ENGINEER.**

REVISION BY:	REVISION DATE:	REVISION #

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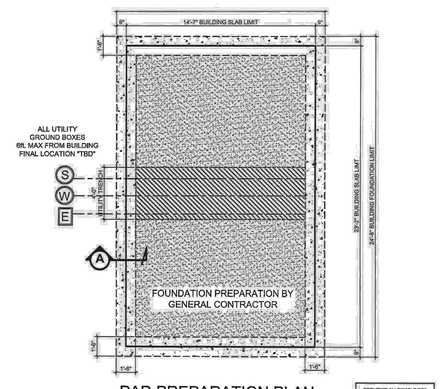
BUILDING TYPE:	RESTROOM BUILDING	DATE: 10-17-2017	DRAWN BY: EVE
PROJECT:	KINGSBURY NORTH TRAILHEAD DOUGLAS COUNTY, NV	PROJECT #10129	MAXIMUM PERSON AN HOUR: 180 M

-NOT FOR CONSTRUCTION – PRELIMINARY DESIGN DRAWING ONLY – DO NOT SCALE, DIMENSIONS PRESIDE

SITE CONTRACTOR NOTE:
BOTTOM OF PRE-FAB SLAB BY PRE-FAB BLDG. MANUFACTURER IS DEAD FLAT. FOOTING TOP & COMPACTED BACK FILLMUST BE DEAD LEVEL.
POUR FOOTING WITH LAZER TRANSIT TO VERIFY TOP OF FOOTING. IF SHIM PLATES ARE REQUIRED A CHANGE ORDER IS REQUIRED.



PAD PREPARATION PLAN

SCALE: NOT TO SCALE

REQUIRED ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF - FIELD VERIFIED BY OTHERS

PRELIMINARY ONLY

SEE GENERAL SITE CONDITION LIABILITY NOTE ON " PAD PREPARATION RESPONSIBILITY" PAGE

REVISION BY:	REVISION DATE:	REVISION #

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BUILDING TYPE:	RESTROOM BUILDING	DATE: 10-17-2017	DRAWN BY: EVE
PROJECT:	KINGSBURY NORTH TRAILHEAD DOUGLAS COUNTY, NV	PROJECT #10129	MAXIMUM PERSON AN HOUR: 180 M

-NOT FOR CONSTRUCTION – PRELIMINARY DESIGN DRAWING ONLY – DO NOT SCALE, DIMENSIONS PRESIDE

SITE CONTRACTOR NOTE:
BOTTOM OF PRE-FAB SLAB BY PRE-FAB BLDG. MANUFACTURER IS DEAD FLAT. FOOTING TOP & COMPACTED BACK FILLMUST BE DEAD LEVEL.
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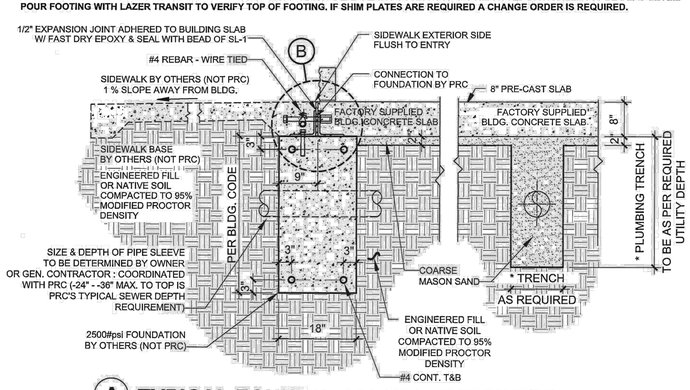

(A) TYPICAL FOUNDATION SECTION DETAIL

REVISION BY:	REVISION DATE:	REVISION #

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BUILDING TYPE:	RESTROOM BUILDING	DATE: 10-17-2017	DRAWN BY: EVE
PROJECT:	KINGSBURY NORTH TRAILHEAD DOUGLAS COUNTY, NV	PROJECT #10129	MAXIMUM PERSON AN HOUR: 180 M

-NOT FOR CONSTRUCTION – PRELIMINARY DESIGN DRAWING ONLY – DO NOT SCALE, DIMENSIONS PRESIDE

NOTES:

1. THE ABOVE DETAILS WERE PREPARED, DESIGNED, AND PROVIDED BY PUBLIC RESTROOM COMPANY.

1 / D-5 BATHROOM FACILITY DETAILS
N.T.S.

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: H: N.T.S. V:
DRAWN BY: BAM
DESIGNED BY: BAM
CHECKED BY: MAC

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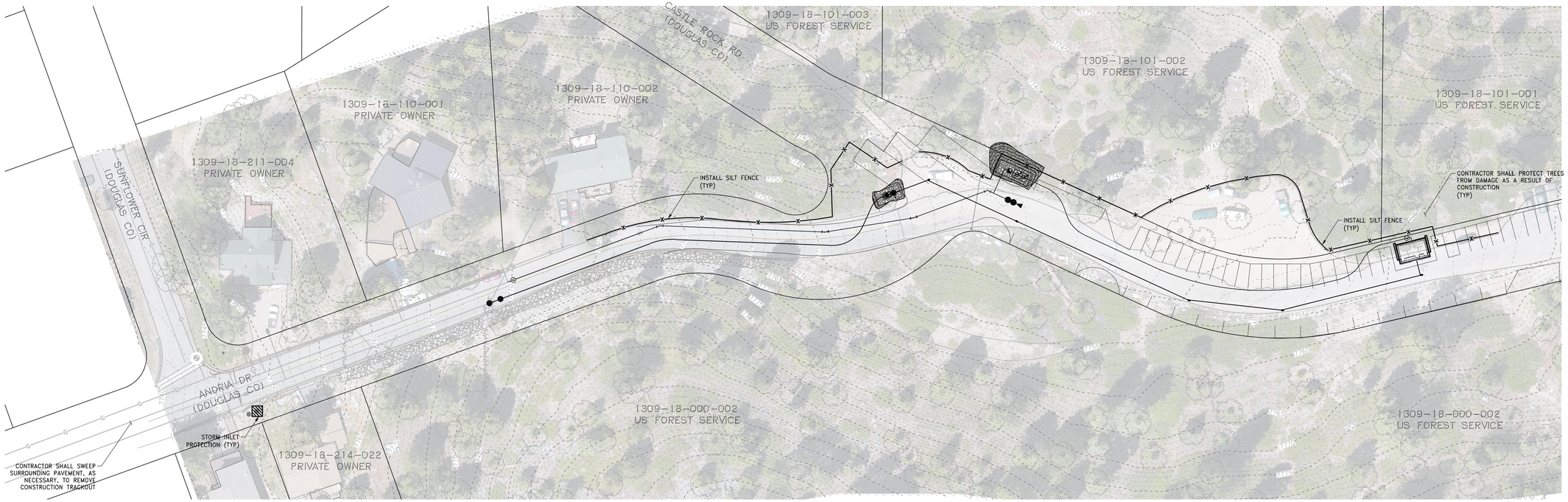
IMPROVEMENT PLANS FOR
NORTH KINGSBURY TRAIL HEAD BATHROOM PROJECT
PUBLIC RESTROOM COMPANY DETAILS
DOUGLAS COUNTY NEVADA

PROJECT NO. 8063.011

DRAWING D-5

SHT 8 OF 12



LEGEND

STORM DRAIN INLET PROTECTION (AT ALL CATCH BASINS) — 5 BMP-2

SILT FENCE — 1 BMP-2, 2 BMP-2

NOTES

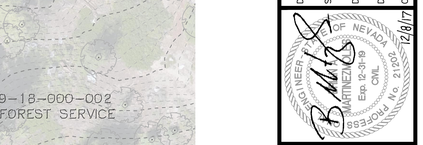
1. THE CONTRACTOR SHALL CONTINUOUSLY MAINTAIN BMPS THROUGHOUT CONSTRUCTION AND SHALL REMOVE ANY ACCUMULATED SEDIMENT. ACCUMULATED SEDIMENT SHOULD BE MOVED TO AREAS AWAY FROM WATER FLOW PATHS AND STABILIZED, OR REMOVED TO FACILITIES OFFSITE FOR PROPER DISPOSAL.
2. ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS FOLLOWING A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.
3. ALL SITE WORK MUST BE COMPLETED BETWEEN MAY 1ST AND OCTOBER 15TH. NO GRADING ACTIVITIES WILL BE PERMITTED OUTSIDE THESE DATES.
4. GRADING IS NOT ALLOWED WHEN THE SITE IS COVERED WITH SNOW, OR WHEN SOILS ARE SATURATED, MUDDY, OR UNSTABLE TO PREVENT SOIL DAMAGE AND EROSION.
5. TEMPORARY BMPS MUST BE IN PLACE PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONSTRUCTION ACTIVITIES MAY BE HALTED, AT NO ADDITIONAL COST TO THE OWNER, SHOULD BMPS BE FOUND TO NOT MEET PERMIT CONDITIONS.
6. ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE CONTRACTOR DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE TAHOE-REGIONAL PLANNING AGENCY BEST MANAGEMENT PRACTICES (BMP) HANDBOOK. CONTRACTOR SHALL MODIFY PLAN AS NEEDED TO PROVIDE CONTINUOUS PROTECTION FROM STORM WATER RUNOFF.
7. AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS AND ALL BMPS WEEKLY, PRIOR TO A FORECASTED RAIN EVENT AND WITHIN 24 HOURS AFTER ANY ACTUAL RAIN EVENT. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS FROZEN GROUND CONDITIONS OR SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO STORMWATER GENERAL PERMIT NVR100000, SECTION 1.B.1.G.
8. TOTAL DISTURBED AREA IS APPROXIMATELY 0.15 ACRES.
9. REFER TO SHEET BMP-2 AND THE TRPA HANDBOOK FOR DETAILS AND IMPLEMENTATION REQUIREMENTS FOR EACH BMP.

40' 20' 0 40'

SCALE: 1" = 40'

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: 1"=40'
DRAWN BY: BAM
DESIGNED BY: BAM
CHECKED BY: BAM



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IMPROVEMENT PLANS FOR

NORTH KINGSBURY TRAIL HEAD BATHROOM PROJECT

DOUGLAS COUNTY NEVADA

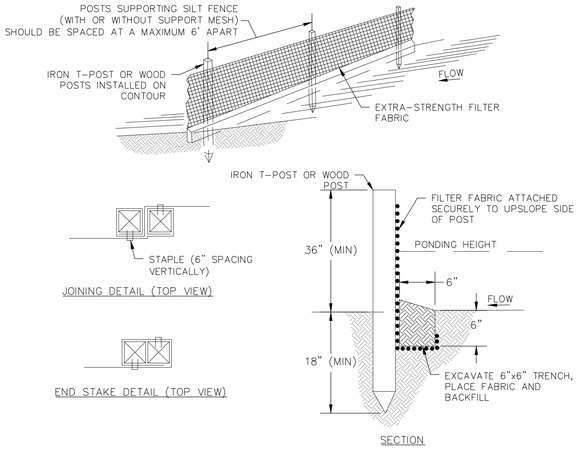
TEMPORARY BMP PLAN

PROJECT NO.
8063.011

DRAWING
BMP-1

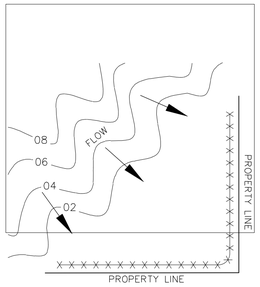
SHT **9** OF **12**

J:\Jobs\8063.3_DouglasCounty\Kingsbury Trailhead\Civil\Dwg\C09_KBTRL_BMP-1.dwg 12/8/2017 2:49 PM Brian Matthews

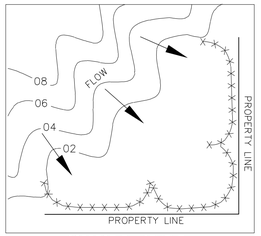


NOTES:
1. USED IN AREAS WHERE SHEET FLOW OCCURS.
2. DO NOT USE IN STREAMS, CHANNELS, OR ANYWHERE FLOW IS CONCENTRATED. DO NOT USE SILT FENCES TO DIVERT FLOW.
3. DO NOT USE BELOW SLOPES SUBJECT TO CREEP, SLUMPING, OR LANDSLIDES.
4. SILT FENCE SHOULD BE WOVEN POLYPROPYLENE WITH A MINIMUM WIDTH OF 36 INCHES AND A MINIMUM TENSILE STRENGTH OF 100 LB FORCE.
5. INSTALL ALONG A LEVEL CONTOUR SO WATER DOES NOT POND MORE THAT 1.5 FEET AT ANY POINT ALONG THE SILT FENCE.
6. THE MAXIMUM LENGTH OF SLOPE DRAINING TO ANY POINT ALONG THE SILT FENCE SHOULD BE 200 FEET OR LESS.
7. THE MAXIMUM SLOPE PERPENDICULAR TO THE FENCE LINE SHOULD BE 1:1.
8. PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND TO ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOES OF SLOPES OR OTHER OBSTRUCTIONS.
9. TURN THE ENDS OF THE FILTER FENCE UPHILL TO CREATE A "J" SHAPE, TO PREVENT STORMWATER FROM FLOWING AROUND THE FENCE.
10. LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWN SLOPE FROM THE FENCE WHERE FEASIBLE.
11. SILT FENCES SHOULD REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
12. REMOVE SEDIMENT WHEN DEPOSITS REACH APPROXIMATELY 1/3 HEIGHT OF BARRIER.

1 BMP-2 SILT FENCE DETAILS
N.T.S.

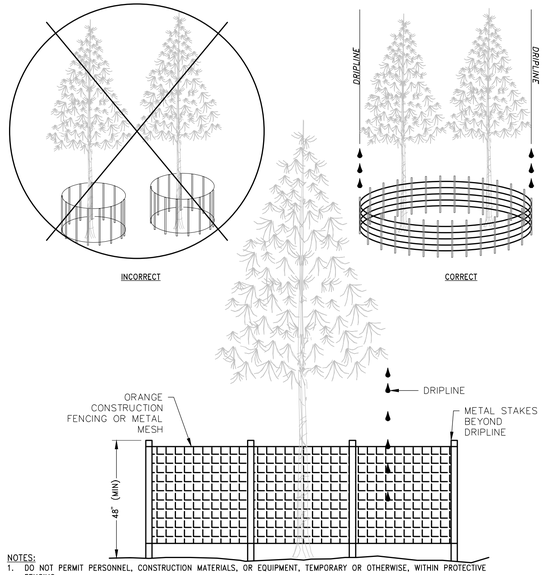


INCORRECT PLACEMENT
DO NOT LAYOUT PERIMETER CONTROL SILT FENCES ALONG PROPERTY LINES. ALL SEDIMENT-LADEN RUNOFF WILL CONCENTRATE AND OVERWHELM THE SYSTEM.



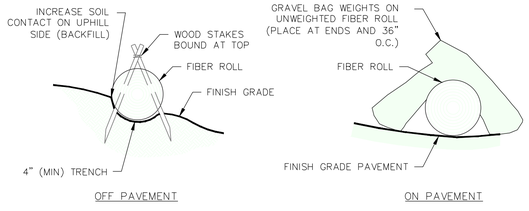
CORRECT PLACEMENT
BREAK-UP SILT FENCE INTO SECTIONS TO PREVENT SEDIMENT-LADEN RUNOFF FROM CONCENTRATING AND OVERWHELMING THE SYSTEM.

2 BMP-2 SILT FENCE PLACEMENT DETAILS
N.T.S.

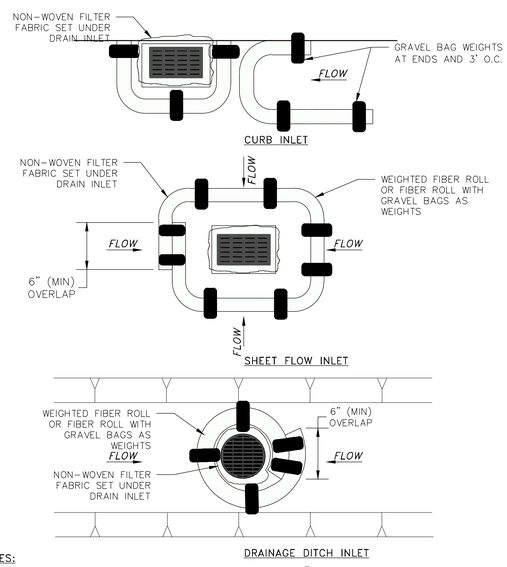


NOTES:
1. DO NOT PERMIT PERSONNEL, CONSTRUCTION MATERIALS, OR EQUIPMENT, TEMPORARY OR OTHERWISE, WITHIN PROTECTIVE FENCING.
2. VEGETATION PROTECTION IS REQUIRED FOR ALL PROJECTS AS A CONDITION OF PROJECT APPROVAL.
3. METAL OR WIRE MESH FENCING MAY BE REQUIRED.
4. CALCULATE THE PROTECTIVE PERIMETER FOR SHIELDING LARGER SPECIMEN TREES MEASURING OVER 30" DBH AS FOLLOWS: COMPUTE THE PROTECTIVE RADIUS BY ADDING ONE FOOT, AS MEASURED OUT FROM THE TREE BOLE, FOR EVERY INCH IN DBH. (E.G. A TREE WITH A 30" DBH WOULD RECEIVE A 30' PROTECTIVE PERIMETER)

3 BMP-2 VEGETATION PROTECTION DETAILS
N.T.S.



4 BMP-2 FIBER ROLL DETAILS
N.T.S.

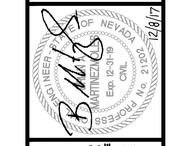


NOTES:
1. FIBER ROLL DRAIN INLET PROTECTION SHALL USE A MIN. 12" DIAMETER ROLL AND BE INSTALLED BEFORE CONSTRUCTION BEGINS.
2. GRAVEL BAGS SHALL BE FILLED WITH GRAVEL. SAND BAGS ARE NOT AN ACCEPTABLE SUBSTITUTE.
3. INSPECT AND REPAIR FIBER ROLLS EACH DAY AND AFTER EACH STORM EVENT. REMOVE SEDIMENT WHEN ONE THIRD OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DISPOSED OF PROPERLY.
4. SEDIMENT AND GRAVEL DEPOSITED ON ROADWAYS SHALL BE IMMEDIATELY REMOVED.
5. IN HIGH TRAFFIC AREAS, MARK DRAIN INLET PROTECTION WITH VISIBLE BARRIERS SUCH AS SAFETY CONES.
6. REMOVE DRAIN INLET PROTECTION AFTER THE SURROUNDING AREA HAS BEEN STABILIZED.

5 BMP-2 DRAINAGE INLET PROTECTION DETAILS
N.T.S.

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: 1"=40'
DRAWN BY: BAM
DESIGNED BY: BAM
CHECKED BY: BAM



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IMPROVEMENT PLANS FOR
NORTH KINGSBURY TRAIL HEAD BATHROOM PROJECT
TEMPORARY BMP DETAILS
DOUGLAS COUNTY NEVADA

PROJECT NO. 8063.011

DRAWING BMP-2

SHT 10 OF 12

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
A / E1	DETAIL IDENTIFICATION: TOP IS DETAIL/BOTTOM IS SHEET NUMBER
1 / E1	NOTE IDENTIFICATION: NOTE NO. 1 ON SHEET E-1
ES / 1	EQUIPMENT SCHEDULE IDENTIFICATION
	DUPLEX GFCI RECEPTACLE
$	SPST SWITCH; +42" A.F.F. U.O.N.
$HOA	HAND-OFF-AUTO SWITCH; +42" A.F.F. U.O.N.
(#)	MOTOR/PUMP (# INDICATES HORSEPOWER)
	GROUND
M	METER
	CIRCUIT BREAKER
OT	OVER-TEMPERATURE SENSOR
TX	EQUIPMENT TRANSMITTER
FM	FLOW METER SENSOR
TC	TIME CLOCK
PEC	PHOTO ELECTRIC CELL
	GROUNDING ELECTRODE GROUND-ROD
	CONDUIT UP/DOWN
	CONDUIT STUB
	PHASE CONDUCTOR; #12 THHN IN 1" C. U.O.N.
	CODE SIZE GROUND BONDING CONDUCTOR PER N.E.C. TABLE 250-95
	NEUTRAL CONDUCTOR; #12 THHN IN 1" C. U.O.N.
	UNDERGROUND FEEDER, (2)-#12 THHN IN 1" C. U.O.N.
	EXPOSED RUN, PARALLEL TO STRUCTURE IN UNFINISHED AREAS; (2)-#12 THHN IN 1" C. U.O.N.
LA-1,3,5	HOME RUN INDICATION. EX: 3-#12'S WITH 1-#12 NEUTRAL, AND 1-GROUND IN 3/4"C. TO PANELBOARD-LA, CIRCUITS 1,3,5
N.T.S.	NOT TO SCALE
C.	CONDUIT
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
SPD	SURGE PROTECTION DEVICE
OAA	OR APPROVED ALTERNATE
B.C.	BARE COPPER
GRSC	GALVANIZED RIGID STEEL CONDUIT
F.M.	FLOW METER
E.C.	EMPTY CONDUIT
D.S.	DISCONNECT SWITCH
(E)	EXISTING
WP	WEATHER-PROOF
GFI	GROUND FAULT INTERRUPT
GFI	GROUND FAULT INTERRUPT
G/N	SOLIDLY GROUNDED NEUTRAL BUS
	SAFETY DISCONNECT SWITCH (FRAME/FUSE/POLE#)
CR#	RELAY COIL AND ASSOCIATED CONTACTOR
	LIGHTING / LUMINAIRE(S)

GENERAL ELECTRICAL REQUIREMENTS:

A. FURNISH ALL LABOR, MATERIAL, EQUIPMENT, TOOLS, ACCESSORIES, ETC. REQUIRED FOR A COMPLETE ELECTRICAL SYSTEM.

B. ALL WORK SHALL CONFORM WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, NATIONAL BOARD OF FIRE UNDERWRITERS, APPLICABLE LOCAL CODES, AND POWER COMPANY STANDARDS.

C. ALL MATERIAL SHALL BE NEW AND CONFORM WITH THE REQUIREMENT OF THE UNDERWRITER'S LABORATORIES, INC.

D. WORKMANSHIP AND NEAT APPEARANCE SHALL BE OF THE SAME LEVEL OF IMPORTANCE AS ITS ELECTRICAL AND MECHANICAL EFFICIENCY.

E. COORDINATE ALL WORK WITH THAT OF OTHER CONTRACTORS ON THE JOB AND ALSO WITH THAT OF THE OWNER. ANY COST FOR EXTRA WORK OR MATERIALS RESULTING FROM LACK OF COORDINATION, SHALL BE BORNE BY THIS CONTRACTOR.

F. POWER CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM (UNLESS OTHERWISE NOTED). #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS TO BE TYPE XHHW-2. ALL WIRING SHALL BE INSTALLED IN CONDUIT. CONTROL CONDUCTORS TO BE #14 XHHW-2 STRANDED.

G. ALL CONDUIT WITHIN 18" (ABOVE AND BELOW) OF GRADE OR FINISHED FLOOR TO BE GALVANIZED RIGID STEEL. ALL CONDUIT BELOW 18" OF GRADE TO BE PVC-TYPE SCHEDULE-40. ALL UNDERGROUND ELBOWS TO BE GALVANIZED RIGID STEEL (GRS). ALL METALLIC CONDUITS IN CONTACT WITH EARTH TO BE EITHER PVC-GRSC OR HALF-LAP WRAPPED IN SCOTCH-50 ELECTRICAL TAPE. FOR CONDUITS INSTALLED OUTDOORS, PROVIDE A WATER-TIGHT CONDUIT SYSTEM, (IMC OR GRS ONLY) INCLUDING THREADED HUBS AT EQUIPMENT PENETRATIONS, LIQUID-TIGHT CONNECTORS, & SEALS.

H. WIRING DEVICES SHALL BE HUBBELL, OR EQUAL. ALL DEVICES SHALL BE EQUAL TO THE FOLLOWING AND SHALL HAVE WHITE DEVICE PLATES:
ENCLOSURE SWITCHES:
A. SPST HUBBELL NO. 1221-I
ENCLOSURE RECEPTACLES:
A. GFCI DUPLEX 20A, 125V HUBBELL NO. GF5262-I

I. CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:
240S/120V - BLACK, RED
NEUTRAL - WHITE

J. ELECTRIC EQUIPMENT SHALL BE AS MANUFACTURED BY EATON, SQUARE-D, OR ALLEN-BRADLEY, OR AS SPECIFIED IN THE EQUIPMENT SCHEDULE (OTHERS ON PRIOR APPROVAL). PANELBOARDS SHALL BE OF THE BOLT-ON CIRCUIT BREAKER TYPE.

K. METALLIC CONDUIT FITTINGS AND ACCESSORIES SHALL BE STEEL, COMPRESSION TYPE. ALL HARDWARE SHALL BE 316 STAINLESS STEEL.

L. ALL SURFACE OUTLET BOXES TO BE "FS" CAST STEEL WITH MATCHING COVERS.

M. ALL CONCRETE WORK TO BE PER CIVIL AND/OR STRUCTURAL DRAWINGS, SPECIFICATIONS, REQUIREMENTS, AND DIAGRAMS.

N. FINAL CONDUIT ROUTING FOR NEW CONDUIT SYSTEMS TO BE DETERMINED BY ELECTRICAL CONTRACTOR; HOWEVER SEPARATE DEDICATED CONDUITS SHALL BE PROVIDED FOR ANALOG SIGNAL, DISCRETE SIGNAL, AND POWER. DO NOT USE EQUIPMENT ENCLOSURES AS PASS-THROUGH WIRE-WAY.

O. PROVIDE NEW TYPED PANEL DIRECTORIES FOR ALL NEW AND MODIFIED 120/208/240V LOAD CENTERS AND PANELBOARDS. PROVIDE BLACK PHENOLIC NAMEPLATES FOR BREAKERS INSTALLED IN 277/480V PANELS.

P. SUBMIT ELECTRONIC COPIES OF SHOP DRAWINGS AND/OR MANUFACTURERS DESCRIPTIVE DATA ON ALL PROPOSED ELECTRICAL EQUIPMENT FOR APPROVAL WITHIN THIRTY (30) DAYS AFTER AWARD OF CONTRACT. THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS PREPARED BY HIS SUPPLIERS AND SHALL MARK ALL COPIES AS ACCEPTABLE TO HIM. THE CONTRACTOR'S ACCEPTANCE SHALL INCLUDE CERTIFICATION THAT THE REQUIRED ELECTRICAL CONNECTIONS HAVE BEEN NOTED AND THAT EQUIPMENT CAN BE INSTALLED IN THE SPACE AVAILABLE.

Q. INSTALL ALL EMPTY CONDUITS WITH PULL STRING.

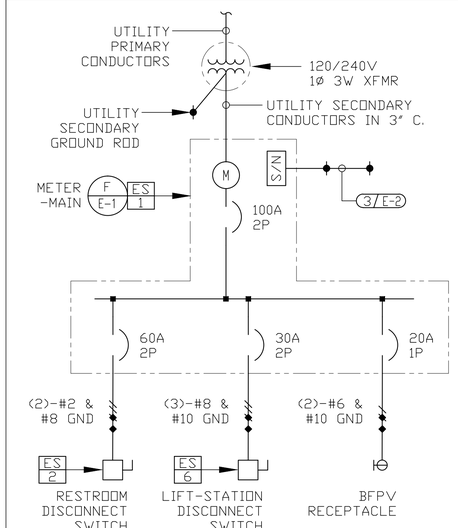
R. THIS CONTRACTOR SHALL GUARANTEE TO THE OWNER ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE.

EQUIPMENT SCHEDULE

ES

ITEM	QUANTITY	DESCRIPTION
1	1	100A 240S/120V 3ø 7-JAW NEMA-3R SINGLE-METER RING-TYPE METER PEDESTAL COLORED 'DESERT TAN' WITH TEST-BYPASS BLOCK, 100A MAIN CIRCUIT BREAKER, 18-CIRCUIT DISTRIBUTION LOAD-CENTER & A SWITCHED 6-CIRCUIT LOAD-CENTER (VIA CONTACTOR), 24-HOUR TIME CLOCK KIT, ANCHOR-BOLT KIT, HAND-OFF-AUTO SWITCH, TWO-POSITION PHOTOELECTRIC CONTROL KIT, 50kA/ø SURGE PROTECTION DEVICE, CONVENIENCE RECEPTACLE, AND BREAKERS AS CONFIGURED IN THE PANEL SCHEDULE. CONFIGURE PER DESCRIPTION & PANEL SCHEDULE. MILBANK #CP3B-1-1-1-1-5-A-22, #CP-ABK5/8 & EATON #SPD-240S.
2	1	60A 240V 3-WIRE 1ø NEMA-12/3R DISCONNECT SWITCH WITH SOLID-NEUTRAL. INCLUDE COMPATIBLE (2)-60A DETD FUSES. EATON #DH222NDK.
3	3	N-36 TYPE, 17"x30" H-20 TRAFFIC RATED CONCRETE PULLBOX & EXTENSION. JENSEN PRECAST #HT1730-B, #HT1730-E, WITH #HT1730-L01 STEEL COVER MARKED "ELECTRIC". VERIFY QUANTITY & TYPE/ REQUIREMENTS WITH UTILITY WORK ORDER DRAWINGS.
4	2	N-9 TYPE, 10"x17" H-20 TRAFFIC RATED CONCRETE PULLBOX & EXTENSION. JENSEN PRECAST #HT1017-B, #HT1017-E, WITH #HT1017-L01 STEEL COVER MARKED "ELECTRIC".
5	1	240V NEMA-4X DUPLEX LIFT-STATION CONTROL PANEL FOR USE WITH (2)-2HP GRINDER PUMPS & (3)-FLOAT SWITCHES. ZOELLER #10-0512 (COORDINATE COMPLETE INSTALLATION FOR ZOELLER #922-0022).
6	1	30A 240V 3-WIRE 1ø NEMA-12/3R DISCONNECT SWITCH WITH SOLID-NEUTRAL. INCLUDE COMPATIBLE (2)-30A DETD FUSES. EATON #DH221NDK.
7	1	15kVA 240x240S/120V 1ø NEMA-3R GENERAL PURPOSE ENCAPSULATED TRANSFORMER WITH (2)+5% VOLTAGE TAPS. EATON #S10L11S15N

REMARKS: CONTRACTOR TO COORDINATE EQUIPMENT SCHEDULE QUANTITIES WITH ELECTRICAL DRAWINGS AND MODIFY AS REQUIRED.



E / E-1 SINGLE-LINE DIAGRAM
SCALE: NOT TO SCALE

SHEET NOTES:

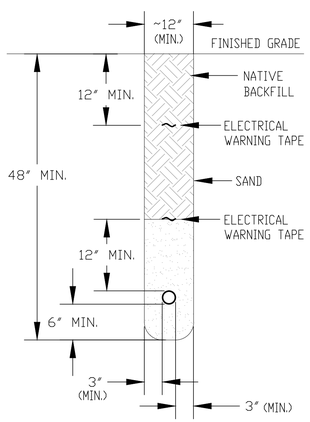
1 / E-1

1. INSTALL THE LIFT-STATION CONTROL PANEL & DISCONNECT SWITCH ON A STAINLESS-STEEL UNI-STRUT RACK COMPRISED OF (2)-116" B22A (BACK-TO-BACK) VERTICAL SECTIONS POURED IN PLACE WITH 8" DIA. CONCRETE PIERS. ALL MOUNTING HARDWARE TO BE 316 STAINLESS STEEL.

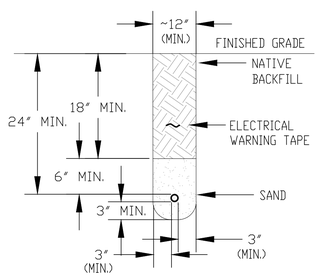
2. CONNECT THE LIFT- STATION CONTROL PANEL TO THE PACKAGED WET-WELL WITH 2" C.
INSTALL:
PUMP-1 CABLE
PUMP-2 CABLE
(3)-FLOAT CABLES

UTILIZE EYS-SEAL OFFS ON CONDUITS ENTERING THE WET-WELL. EXTEND CABLES FROM LIFT-STATION JUNCTION BOX.

3. POUR NEW METERING PEDESTAL MOUNTING-PAD WITH DIMENSIONS PER MANUFACTURER'S RECOMMENDATIONS.

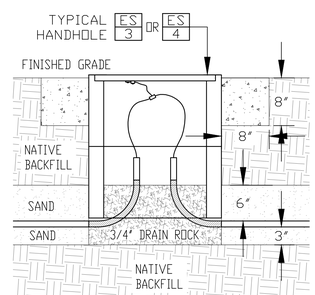


A / E-1 UTILITY TRENCH DETAIL SCALE: 1" = 1'-0"



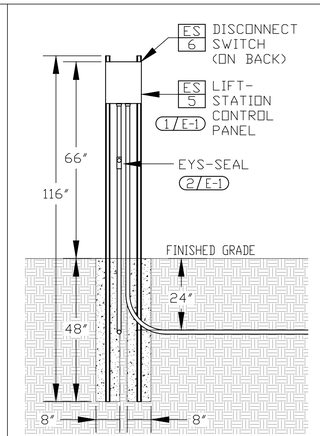
B / E-1 TYPICAL BRANCH TRENCH DETAIL
SCALE: 1" = 1'-0"

MINIMUM TRENCH REQUIREMENTS SHOWN. MODIFY TRENCH WIDTH AS NECESSARY FOR ADDITIONAL CONDUITS. PROVIDE AND INSTALL PULL-LINE IN ALL EMPTY CONDUITS FOR FUTURE CONDUCTOR PULLS. SEE CIVIL SHEETS FOR PAVEMENT PATCH REQUIREMENTS, MATERIALS, & PLACEMENT SPECIFICATIONS FOR BEDDING AND BACKFILL.

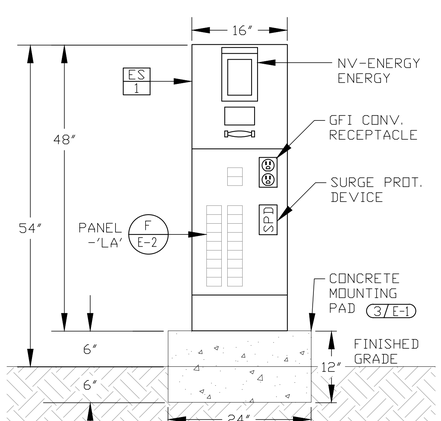


C / E-1 HANDHOLE DETAIL
SCALE: 1" = 1'-0"

LABEL AND BOND PULL-BOX COVER ACCORDING TO NEC ARTICLE 314.30(D). POUR A NEW 8"x8" CONCRETE COLLAR AROUND THE ENTIRE PERIMETER OF THE NEW TRAFFIC PULL BOX WHERE NOT INSTALLED IN CONCRETE SLABS.



D / E-1 LIFT-STATION CONTROL PANEL
SCALE: 1/2" = 1'-0"



F / E-1 PEDESTAL DETAIL
SCALE: 1" = 1'-0"

JENSEN ENGINEERING INC.
Electrical Engineers
9655 Gateway Drive
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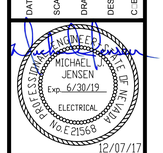
email: jeneng@nvbell.net
web: www.jeneng.com

NO.	DESCRIPTION	ENGR INIT	DATE

DATE: DECEMBER 2017
SCALE: AS SHOWN
DRAWN BY: MJ
DESIGNED BY: MJ
CHECKED BY: MJ



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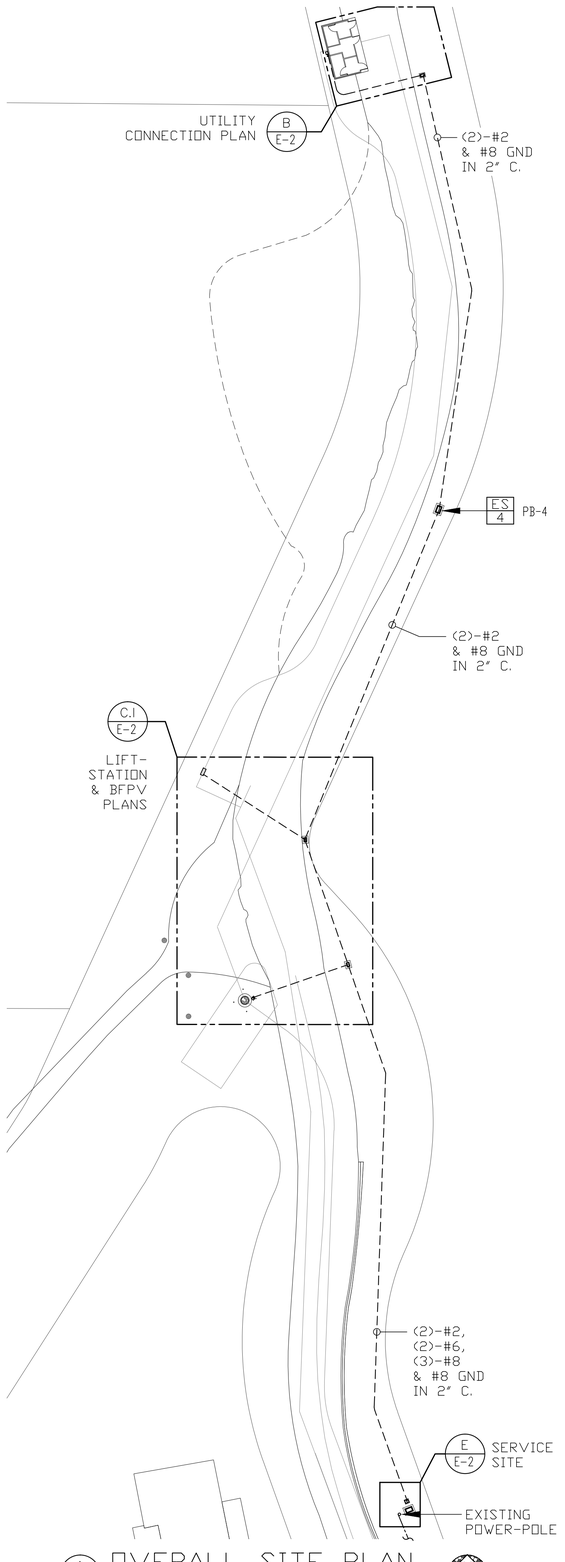
IMPROVEMENT PLANS FOR
NORTH KINGSBURY TRAIL HEAD BATHROOM PROJECT
LEGEND, REQUIREMENTS, & EQUIPMENT SCHEDULE
NEVADA
DOUGLAS COUNTY

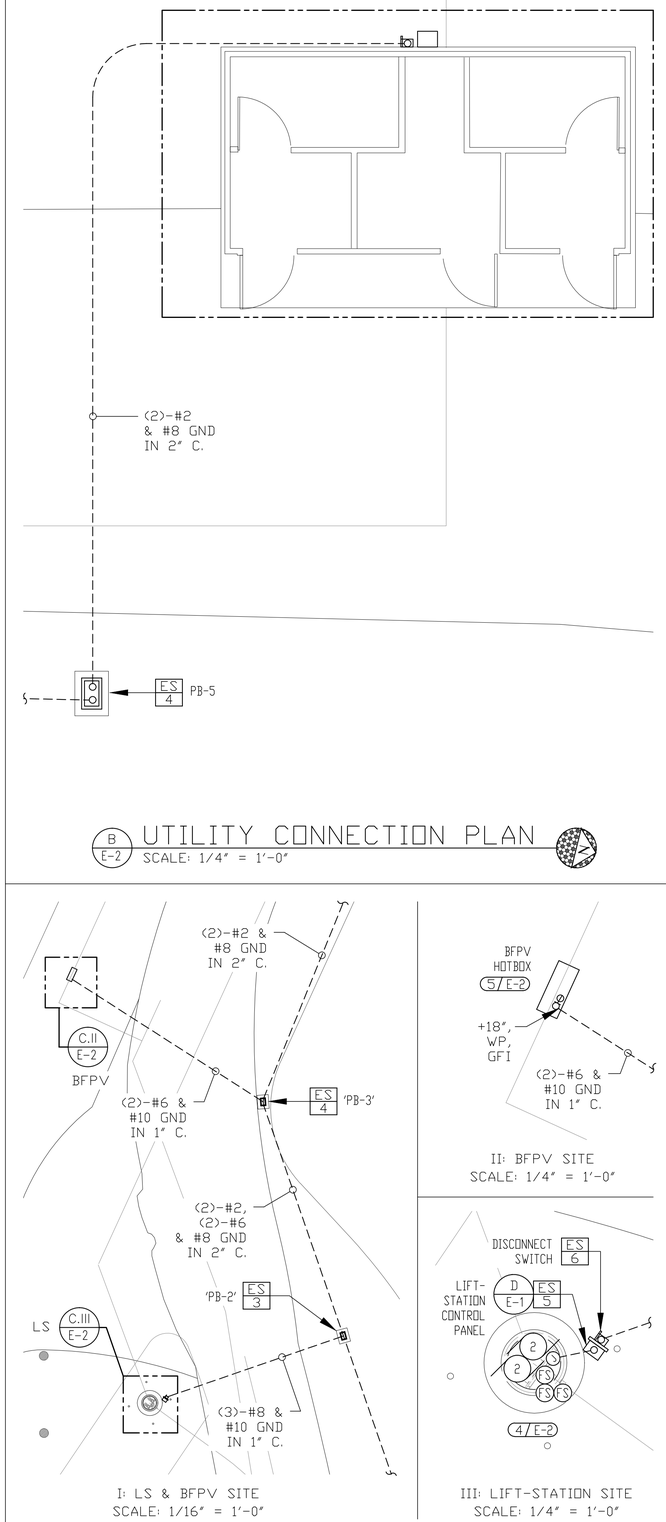
PROJECT NO. E113BD

DRAWING E-1

SHEET 11 OF 12



A E-2 OVERALL SITE PLAN
SCALE: 1" = 30'-0" 1/E-2



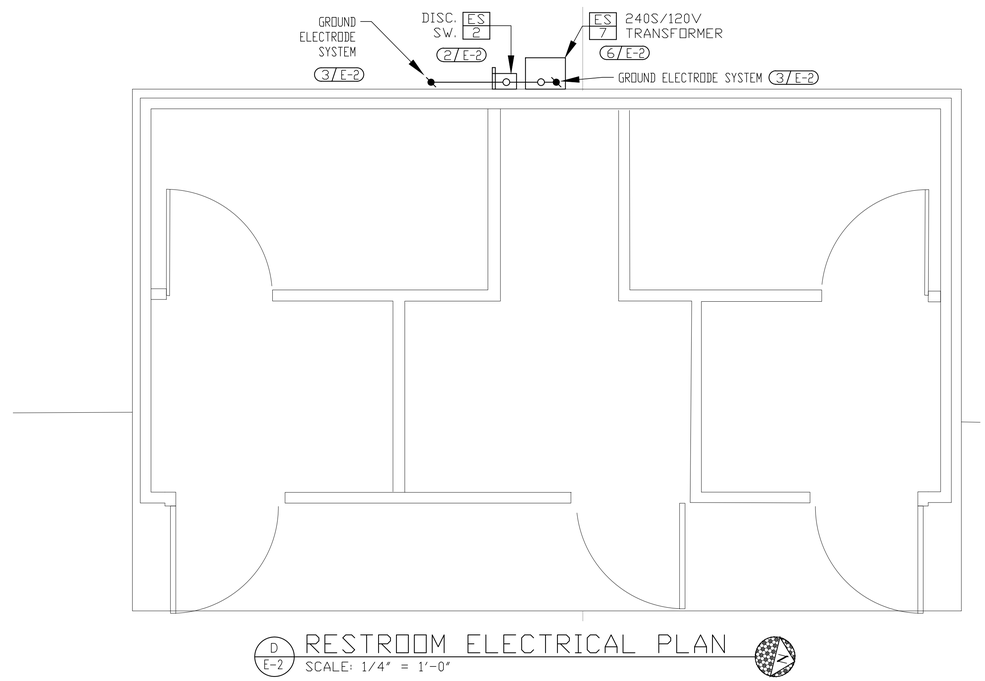
B E-2 UTILITY CONNECTION PLAN
SCALE: 1/4" = 1'-0"

I: LS & BFPV SITE
SCALE: 1/16" = 1'-0"

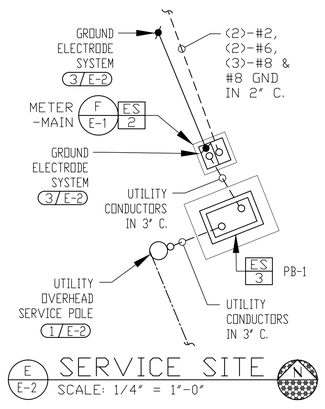
II: BFPV SITE
SCALE: 1/4" = 1'-0"

III: LIFT-STATION SITE
SCALE: 1/4" = 1'-0"

C E-2 LIFT-STATION & BFPV PLANS
SCALE: SHOWN



D E-2 RESTROOM ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"



E E-2 SERVICE SITE
SCALE: 1/4" = 1'-0"

PANELBOARD SCHEDULE

PANEL-'LA' 240S/120V
LOCATION: STORAGE ROOM 1-PHASE, 3-WIRE
MOUNTING: SURFACE BUS AMPERES: 100A

CKT	LOAD KVA A-Ø	LOAD KVA B-Ø	BREAKER AMP	BREAKER P	DESCRIPTION	DESCRIPTION	BREAKER AMP	BREAKER P	LOAD KVA A-Ø	LOAD KVA B-Ø	CKT
			100	2	MAIN BREAKER						
1	3.50		60	2	RESTROOM BUILDING	BFPV HEAT REC.	20	1	1.00		2
3		3.50	–	–	----------	SPARE	20	1		0.00	4
5	2.88		30	2	GRINDER LIFT-STATION	SPARE	20	1	0.00		6
7		2.88	–	–	----------	SPARE	20	1		0.00	8
9	--		–	–	SPACE	SPACE	–	–	--		10
11		--	–	–	SPACE	SPACE	–	–		--	12
13	0.00		30	2	SURGE PROT. DEV.	SPACE	–	–	--		14
15		0.00	–	–	----------	SPACE	–	–		--	16
	6.38	6.38	KVA (SUBTOTAL)			KVA (SUBTOTAL)			1.00	0.00	
	7.38	6.38	KVA (TOTAL)								
	62.	54.	AMPERES								

REMARKS:

F E-2 PANEL-'LA' SCHEDULE ES 2
SCALE: NOT TO SCALE

SHEET NOTES: /E-2

1. APPROXIMATE LOCATION OF UTILITY COMPANY OVER-HEAD LINE/POLE & TRANSFORMER. VERIFY EXACT LOCATION OF TRANSFORMER AND REQUIREMENTS FOR PROVIDING PERMANENT POWER TO THE SITE WITH UTILITY COMPANY WORK-ORDER DRAWINGS PRIOR TO SUBMITTING A BID. INSTALLATION AND CONSTRUCTION TO CONFORM TO NV-ENERGY STANDARDS INCLUDING OVER-HEAD POWER POLES, RISERS, TRENCHING, CONDUIT, BACK-FILL, COMPACTION, INSPECTIONS, TRANSFORMER PAD, HANDHOLES /PULLBOXES, AND BOLLARDS (IF/WHERE REQUIRED).
2. PACKAGED BUILDING WIRING TO BE PRE-INSTALLED. CONNECT THE NEW BUILDING RESTROOM PANEL WIRING TO NEW TRANSFORMER FOR POWER SOURCE.
3. CONNECT GROUNDING CONDUCTOR TO NEW GROUNDING SYSTEM CONSISTING OF (2)-3/4"DIA. 10-FOOT COPPER BONDED GROUND-RODS, BONDED WITH #2 B.C. INSTALL PER NEC-250.53(A)(3).
4. CONNECT PACKAGED LIFT-STATION POWER TO DISCONNECT SWITCH. ADHERE TO NFPA-870 REQUIREMENTS REGARDING CLASSIFIED AREAS.
5. PROVIDE AND INSTALL A NEW, WEATHER-PROOF, GFCI TYPE, NEMA 5-20R RECEPTACLE ON A STAINLESS STEEL UNISTRUT POST. CONDUIT STUB-UP EXTENDING UP RECEPTACLE SHALL BE RMC-TYPE CONDUIT.
6. CONNECT TRANSFORMER PRIMARY TO DISCONNECT SWITCH 240V WITH (2)-#2 & #8 GND IN 1" C. GROUND EQUIPMENT CASING WITH #8 GND. CONNECT TRANSFORMER SECONDARY NEUTRAL TO GROUNDING ELECTRODE SYSTEM WITH #8 GND.

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NO.	DESCRIPTION	ENGR INIT.	DATE

DATE: DECEMBER 2017
SCALE: AS SHOWN
DRAWN
DESIGNED
CHECKED

12/07/17

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IMPROVEMENT PLANS FOR
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LEGEND, REQUIREMENTS, & EQUIPMENT SCHEDULE
NEVADA
DOUGLAS COUNTY

PROJECT NO. E113BD
DRAWING E-2
SHT 12 OF 12