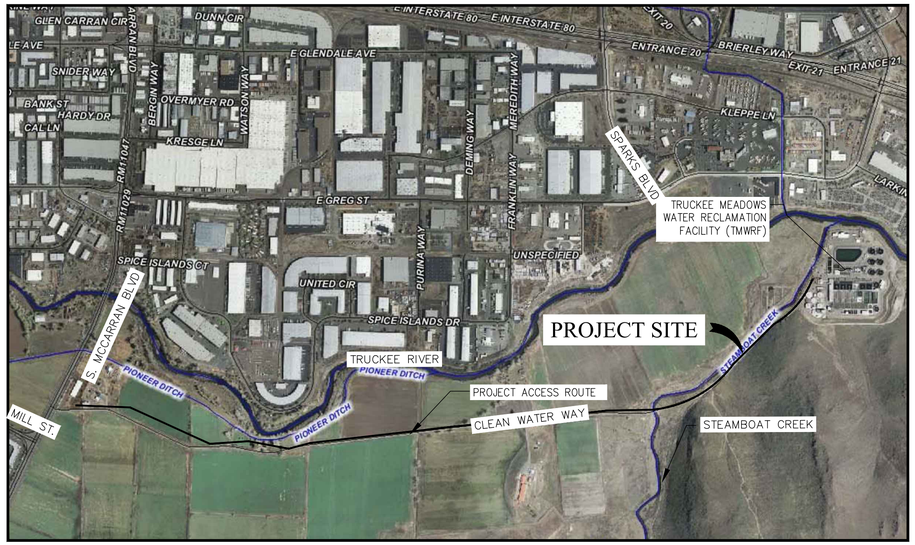
TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT

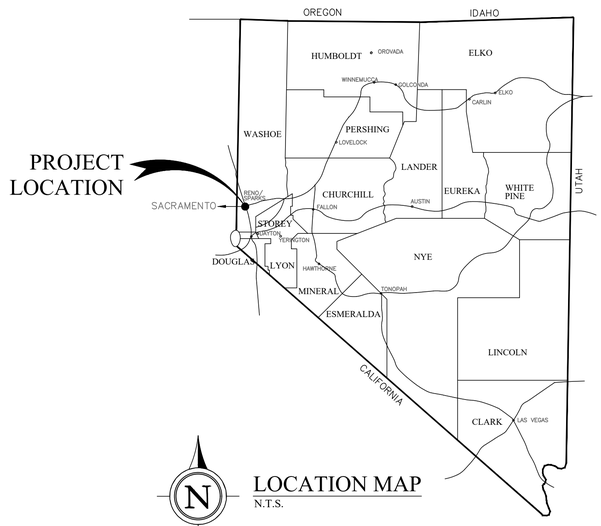
SPARKS, NEVADA

BID # 16/17-018 PWP # WA-2017-145



VICINITY MAP
N.T.S.

PORTIONS OF SECTIONS 14,
T19N, R20E; M.D.M.



LOCATION MAP
N.T.S.

OWNER/DEVELOPER:

TRUCKEE MEADOWS WATER
RECLAMATION FACILITY
P.O. BOX 857
SPARKS, NV 89432
PHONE: (775) 353-2340

SITE LOCATION:

8500 CLEAN WATER WAY
RENO, NEVADA 89502
PHONE: (775) 861-4100

ENGINEER:

FARR WEST ENGINEERING
5510 LONGLEY LANE
RENO, NV 89511
PHONE: (775) 851-4788
FAX: (775) 851-0766

FARR WEST ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS, HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY.

Avoid cutting underground utility lines. It's costly.
Call before you Dig
1-800-227-2600
UNDERGROUND SERVICE (USA)

INDEX OF SHEETS

ONE INCH AT FULL SCALE:

REVISION	DESCRIPTION	BY	APP	DATE

JOB NO.: 1029
DATE: FEBRUARY 2017
SCALE:
DESIGNED: MS
DRAWN: BFE
CHECKED:

FARR WEST ENGINEERING
5510 LONGLEY LANE
RENO, NEVADA 89511
PHONE: (775) 851-4788
FAX: (775) 851-0766
FARRWESTENGINEERING.COM

PROFESSIONAL ENGINEER STATE OF NEVADA
MATTHEW M. SCHULTZ
Exp. 6/30/18
CIVIL
No. 21004
SIGNED: 2/22/17

TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
COVER SHEET
WASHOE COUNTY NEVADA

SHEET NUMBER
G1.1
1 OF 16

FILE SPEC: P:\Client Projects\Sparks, City of 094\1029 TMWRF Entrance Gate Design\6.0 Drawings\6.1 DWG\VR_G SHEETS.dwg
PLOT DATE: Mar 22, 2017 - 9:39am

GENERAL NOTES:

1. ALL WORK, INCLUDING INSPECTION, SHALL BE TO THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

2. THE CONTRACTOR SHALL VERIFY IN FIELD, ALL ELEVATIONS, DIMENSIONS, EXISTING CONDITIONS, AND POINTS OF CONNECTIONS PRIOR TO PROCEEDING WITH WORK. DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

3. THE OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL ON ANY REMOVED MATERIAL BEFORE IT IS DISPOSED OF OR GIVEN TO CONTRACTOR.

4. THE CONTRACTOR SHALL PHOTOGRAPH AND TAKE VIDEO OF THE ENTIRE CONSTRUCTION AREA. COPIES OF THE VIDEO AND PHOTOGRAPHS SHALL BE PROVIDED TO THE ENGINEER BEFORE CONSTRUCTION BEGINS. THE PHOTOS AND VIDEO SHALL BE USED TO ENSURE THE AREA IS RETURNED TO ITS EXISTING CONDITION. FAILURE TO SUBMIT PRECONSTRUCTION PHOTOS AND/OR VIDEOS SHALL LEAVE THE CONTRACTOR RESPONSIBLE FOR CLAIMS AND DAMAGES TO EXISTING FACILITIES WHETHER PROVEN OR UNPROVEN.

5. CONTRACTOR SHALL NOTIFY THE ENGINEER WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF ITEMS THAT ARE IN CONFLICT UNTIL CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.

6. ALL APPLICABLE SAFETY REQUIREMENTS OF THE STATE DIVISION OF INDUSTRIAL SAFETY SHALL APPLY TO ALL WORK PERFORMED UNDER THIS CONTRACT.

7. AT THE COMPLETION OF THE WORK AND AFTER ACCEPTANCE OF THE INSTALLATION, THE CONTRACTOR SHALL REMOVE FROM THE PREMISES ANY SURPLUS MATERIAL OR DEBRIS RESULTING FROM HIS WORK.

8. PIPING, CONDUITS, AND QUALIFYING ASSETS TO BE LABELED PER TMWRF STANDARDS. LABELING OF EACH PIPE SHALL BE DONE USING COLOR CODED SELF ADHESIVE VINYL TAPE NOT LESS THAN 3MM THICK BY 1-1/2 INCHES WIDE. MINIMUM SIZES FOR LETTERING AND NUMBERING SHALL COMPLY WITH ANSI A13.1. ALL OLD LABELS SHALL BE REMOVED.

9. ALL TRAFFIC CONTROL AND BARRICADING WITHIN THE PROJECT BOUNDARY SHALL CONFORM TO SECTION 130 OF THE STANDARD SPECIFICATIONS, PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND THE NEVADA WORK ZONE TRAFFIC CONTROL HANDBOOK, CURRENT EDITION. NO STREET CLOSURES WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF A TRAFFIC CONTROL PLAN BY THE CITY OF SPARKS.

10. MAINTAIN THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS. ALL MATERIALS SHALL BE STORED WITHIN APPROVED CONSTRUCTION AREAS ON PAVED SURFACES ONLY.

11. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT "CALL BEFORE YOU DIG" (1-800-227-2600) FORTY-EIGHT (48) HOURS PRIOR TO START OF CONSTRUCTION.

12. LOCATE AND/OR PROTECT ALL EXISTING AND PROPOSED PIPING, UTILITY POLES, TRAFFIC SIGNAL EQUIPMENT (BOTH ABOVE GROUND AND BELOW GROUND), STRUCTURES ADJACENT TO STREETS, AND ALL OTHER EXISTING IMPROVEMENTS THROUGHOUT CONSTRUCTION.

13. FINAL UTILITY INSPECTIONS WILL BE PERFORMED BY THE OWNER, ENGINEER, OR THIRD PARTY INSPECTOR. NOTE: THESE PROCEDURES REQUIRE SUBMITTAL OF RECORD DRAWING PRINTS BY THE CONTRACTOR AND 10 WORKING DAYS FOR THE UTILITIES DEPARTMENT TO PREPARE A FINAL PUNCH LIST. ALL CONDITIONS OF THE FINAL INSPECTION MUST BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

14. THE APPROVED PLAN, PERMIT AND INSPECTION RECORD MUST BE ON THE JOB SITE AT ALL TIMES.

15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SITE SAFETY DURING CONSTRUCTION, AND ALL WORK SHALL CONFORM TO PERTINENT SAFETY REGULATIONS AND CODES. FENCE AND/OR BARRICADE THE CONSTRUCTION AREA AS REQUIRED TO PROTECT ADJACENT SITES, VEHICULAR TRAFFIC AND PEDESTRIAN TRAFFIC. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA AND NRS CHAPTER 618, IN THE CONSTRUCTION PRACTICES FOR ALL EMPLOYEES DIRECTLY ENGAGED IN THE CONSTRUCTION OF THIS PROJECT.

16. PURSUE WORK IN A CONTINUOUS AND DILIGENT MANNER TO ENSURE A TIMELY COMPLETION OF THE PROJECT.

17. ALL CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH CITY OF SPARKS SO THAT THE QUALITY OF WORK CAN BE CHECKED FOR APPROVAL.

18. CONSTRUCTION STAGING AREAS MAY BE DESIGNATED BY TMWRF WHO WILL INDICATE WHICH AREAS MAY BE USED WHEN AND FOR HOW LONG. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF ALL EQUIPMENT AND MATERIALS.

19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING SURVEY MONUMENTS AND SHALL REPLACE ANY MONUMENTS OBLITERATED OR DAMAGED DURING CONSTRUCTION AT HIS EXPENSE, REPLACEMENT SHALL BE PERFORMED BY A LICENSED PROFESSIONAL LAND SURVEYOR.

20. NO FILL SHALL BE PLACED OR COMPACTED IN UNFAVORABLE WEATHER CONDITIONS. OVERLY WET, DRY OR FROZEN FILL SHALL NOT BE PLACED.

21. THE CONTRACTOR SHALL UTILIZE CONSTRUCTION TECHNIQUES TO MINIMIZE GRADING, REVEGETATION REMOVAL OR ANY OTHER SURFACE DISTURBANCE. CONTRACTOR WILL BE RESPONSIBLE FOR THE RESTORATION OF ALL GROUNDS INCLUDING, BUT NOT LIMITED TO, LANDSCAPING, SOD, CURBS, ASPHALT, DRIVEWAY PAVERS, RIP RAP, RETAINING WALLS, IRRIGATION PIPING AND LANDSCAPE LIGHTING TO EXISTING CONDITION. ALL COST FOR RESTORATION WILL BE INCLUDED IN THE BID ITEM REQUIRING RESTORATION.

22. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES EMERGENCY ACCESS TO THE PROJECT SITE TO THE SATISFACTION OF TMWRF.

23. 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

DUST CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR PREVENTING CONTROLLABLE FUGITIVE DUST FROM THE PROJECT'S DISTURBED AREAS TO BECOME AIRBORNE ON A 7-DAY/WEEK, 24-HOUR/DAY BASIS FROM COMMENCEMENT OF PROJECT TO FINAL COMPLETION.

2. CONTRACTOR SHALL PROVIDE A WATER TRUCK TO WATER AREAS AS NECESSARY TO CONTROL DUST. WATER SHALL BE APPLIED TO THE ROADWAY AND EXPOSED DIRT AREAS BY WATER TRUCK OR WATER HOSE TO CONTROL FUGITIVE DUST SO LONG AS NO DISCHARGE OF WASTE MATERIAL TO SURFACE DRAINAGE OCCURS.

3. REGULAR VACUUM OR SWEEPING OF ROADS WHERE CONSTRUCTION IS OCCURRING WILL BE PERFORMED AT LEAST DAILY AND MORE OFTEN IF NECESSARY TO REMOVE DIRT OR WASTE RESULTING FROM THE CONSTRUCTION.

4. ALL TRUCKS IMPORTING OR EXPORTING DIRT, ROCK OR OTHER FILL MATERIALS SHALL PREVENT SPILLAGE OR LOSS OF BULK MATERIAL FROM HOLES OR OTHER OPENINGS IN THE CARGO COMPARTMENT FLOOR, SIDES, AND/OR TAILGATE. ALL HAUL TRUCKS MUST BE COVERED WITH A TARP OR OTHER SUITABLE CLOSURE; OR BULK MATERIALS MUST CONTAIN ENOUGH MOISTURE AND/OR DUST SUPPRESSANT TO PREVENT FUGITIVE DUST EMISSIONS DURING TRANSPORT; OR LOAD ALL TRUCKS SUCH THAT THE FREEBOARD IS NOT LESS THAN SIX (6) INCHES.

5. ALL PROJECT RELATED VEHICLES SHALL PARK ON EXISTING PAVED SURFACES OR EXISTING COMPACTED ROAD SHOULDERS.

OPEN TRENCH NOTES:

1. THE MAXIMUM LENGTH OF OPEN TRENCH AT ANY ONE LOCATION DURING A WORKDAY IS NOT TO EXCEED 200 FEET, PROVIDED THAT ALL PROPER BARRICADES AND SAFETY PROCEDURES HAVE BEEN ADDRESSED. THE TRENCH IS CONSIDERED TO BE OPEN UNTIL BACKFILL IS COMPLETED TO ADJACENT FINISH GRADE ELEVATION.

2. COMPLETE BACKFILL OF ALL EXCAVATION AT THE END OF EACH WORKDAY. USE TEMPORARY PATCH MATERIAL OR STEEL PLATES WHERE REQUIRED. FURNISH AND INSTALL TRENCH BRACING AND STEEL PLATING REQUIRED TO PROVIDE SAFE AND CONVENIENT VEHICULAR PASSAGE ACROSS TRENCHES WHERE REQUIRED. MAINTAIN ACCESS TO EMERGENCY FACILITIES AT ALL TIMES.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL PROVIDE A VACUUM SWEEPER TRUCK FOR CLEANING OF THE SITE DURING AND AFTER CONSTRUCTION EACH DAY AS REQUIRED TO PREVENT SEDIMENT RUN OFF AND TO AID IN DUST CONTROL.

2. CONTRACTOR SHALL PROVIDE CRUSHED ROCK IN AREAS OF TEMPORARY CONSTRUCTION ACCESS TO MINIMIZE MIGRATION OF SEDIMENT.

3. ALL DISTURBED AREAS SHALL BE RESTORED TO MATCH PRE-EXISTING CONDITIONS. UNIMPROVED AREAS AND AREAS NOT LANDSCAPED SHALL BE REVEGETATED WITH NATIVE SPECIES APPROPRIATE FOR THE ECOLOGICAL SETTING.

4. SOIL AND CONSTRUCTION MATERIAL SHALL NOT BE TRACKED OFF THE CONSTRUCTION SITE. GRADING OPERATIONS SHALL CEASE IN THE EVENT THAT DANGER OF VIOLATING THIS CONDITION EXISTS.

5. DURING CONSTRUCTION, ENVIRONMENTAL PROTECTION DEVICES, SUCH AS EROSION CONTROL, DUST CONTROL AND VEGETATION PROTECTION DEVICES SHALL BE MAINTAINED AT ALL TIMES.

6. LOOSE SOIL MOUNDS OR SURFACES SHALL BE PROTECTED FROM WIND OR WATER EROSION BY BEING APPROPRIATELY COVERED WHEN CONSTRUCTION IS NOT IN ACTIVE PROGRESS.

7. EXCAVATED MATERIAL SHALL BE STORED UPGRADE FROM THE EXCAVATED AREA WHENEVER POSSIBLE.

8. NO WASHING OF VEHICLES OR HEAVY EQUIPMENT, INCLUDING CEMENT MIXERS, SHALL BE PERMITTED ANYWHERE ON THE SUBJECT PROPERTY UNLESS AUTHORIZED BY TRPA IN WRITING.

PERMIT, MATERIAL TESTING, AND INSPECTION REQUIRMENTS:

1. THE CONTRACTOR SHALL INITIATE, COORDINATE, PREPARE, SUBMIT APPLICATION, AND PAY ALL ASSOCIATED FEES FOR PROJECT PERMITS. ANTICIPATED PERMITS INCLUDE: CITY OF SPARKS BUILDING PERMIT, NDEP CONSTRUCTION STORMWATER GENERAL PERMIT, AND CITY OF SPARKS RIGHT-OF-WAY ENCROACHMENT PERMIT. IF OTHER PERMITS THAN THOSE LISTED ARE REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN. ALL WORK SHALL CONFORM TO PERMIT REQUIREMENTS.

2. IT IS ANTICIPATED THAT COORDINATION WITH A PREFABRICATED BUILDING MANUFACTURER WILL BE REQUIRED TO OBTAIN REQUIRED BUILDING PERMIT APPLICATION INFORMATION.

3. TESTING AND INSPECTION ROLES AND RESPONSIBILITIES ARE DEFINED IN THE SPECIAL PROVISIONS.

4. CONTRACTOR SHALL ANTICIPATE TO REASONABLY ACCOMMODATE INSPECTION SCHEDULES OF INSPECTION AND TESTING PERSONNEL.

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TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
GENERAL NOTES
WASHOE COUNTY NEVADA

SHEET NUMBER
G1.2
2 OF 16

FILE SPEC: P:\Client Projects\Sparks, City of 1094\1029 TMWRF Entrance Gate Design\6.0 Drawings\6.1 DWG\XR_G SHEETS.dwg
PLOT DATE: Mar 22, 2017 - 9:39am

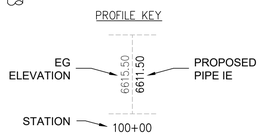
ABBREVIATIONS:

ABAN	– ABANDON	
AIP	– ABANDONED IN PLACE	
AGG	– AGGREGATE	
ALT	– ALTERNATE	
A	– ANODE, GAS	
AC	– ASBESTOS CEMENT	
ACP	– ASPHALTIC CONCRETE PAVEMENT	
AVE	– AVENUE	
BC	– BACK OF CURB	
BCR	– BACK OF CURB RADIUS	
BEG	– BEGIN	
BVC	– BEGINNING OF VERTICAL CURVE	
BM	– BENCH MARK	
BDRY LINE	– BOUNDARY LINE	
BW	– BACK OF SIDEWALK	
CATV	– CABLE TELEVISION	
C–C	– CENTER TO CENTER	
℄, CL	– CENTER LINE	
CO	– CLEAN OUT, SEWER	
COMM	– COMMERCIAL	
CONC, PCC	– CONCRETE	
CONST	– CONSTRUCTION OR CONSTRUCT	
COR	– CORNER	
CMP	– CORRUGATED METAL PIPE	
CSAP	– CORRUGATED STEEL ARCH PIPE	
CSP	– CORRUGATED STEEL PIPE	
C&G	– CURB & GUTTER	
CIP	– CAST IRON PIPE	
COL	– COLUMN	
CU YD, CY	– CUBIC YARD	
CU FT, CF	– CUBIC FOOT	
CULV	– CULVERT	
CF	– CURB FACE	
DC	– DEPRESSED CURB	
DEPT	– DEPARTMENT	
DIA	– DIAMETER	
DWY	– DRIVEWAY	
DI	– DROP INLET	
DI	– DUCTILE IRON	
DMH	– DROP MANHOLE	
ESMT	– EASEMENT	
E/O	– EAST OF	
EP	– EDGE OF PAVEMENT	
EO	– EDGE OF OIL	
E, EL, ELEC	– ELECTRIC	
EM	– ELECTRIC METER	
ELEV	– ELEVATION	
EMBK	– EMBANKMENT	
ECR	– END OF CURB RETURN	
EC	– END OF CURVE	
FIBER	– FIBER OPTIC LINE	
EBS	– CATHODE PROTECTION BOND STATION	
ETS	– CATHODE PROTECTION TEST STATION	
EVC	– END OF VERTICAL CURVE	
EXIST, EX	– EXISTING	
FF	– FINISHED FLOOR	
FDC	– FIRE DEPARTMENT CONNECTION	
FT	– FEET OR FOOT	
FG	– FINISH GRADE	
FA	– FIRE ALARM	
FH	– FIRE HYDRANT	
FL	– FLOW LINE	
G	– GAS	
GALV	– GALVANIZED	
GM	– GAS METER	
GR	– GAS PRESSURE REGULATOR	
GB	– GRADE BREAK	
GUT	– GUTTER	
HDWL	– HEADWALL	
HP	– HIGH POINT	
ID	– INSIDE DIAMETER	
IN	– INCH	
INT	– INTERSECTION	
INV	– INVERT	
ISL	– ISLAND	
JB	– JUNCTION BOX	
LAT	– LATERAL	
LOC	– LENGTH OF CURB	
LS	– LANDSCAPE	
LT	– LEFT	
LF	– LINEAR FEET	
LP	– LOW POINT	
MH	– MANHOLE	
MAX	– MAXIMUM	
MIN	– MINIMUM	
MON	– MONOLITHIC	
MUE	– MUNICIPAL UTILITY EASEMENT	
NO	– NUMBER	
N/O	– NORTH OF	
NTS	– NOT TO SCALE	
OC	– ON CENTER	
OHE	– OVERHEAD ELECTRIC	
OD	– OUTSIDE DIAMETER	
PG	– PAD GRADE	
PHP	– PLASTIC HIGH PRESSURE	
PVMT	– PAVEMENT	
PI	– POINT OF INTERSECTION	
PRC	– POINT OF REVERSE CURVE	
PC	– POINT OF CURVE	
PT	– POINT OF TANGENCY	
PCC	– POINT OF COMPOUND CURVE	
PCC, CONC	– PORTLAND CEMENT CONCRETE	
PP	– POWER POLE	
P	– POWER	
PL	– PROPERTY LINE	
PROP	– PROPOSED	
PL–G	– PLASTIC GAS	
PRC	– POINT OF REVERSE CURVE	
PB	– PULL BOX	
PUE	– PUBLIC UTILITY EASEMENT	
PVI	– POINT OF VERTICAL INTERSECTION	
PVC	– POLYVINYL CHLORIDE PIPE	
ROF	– RATE OF FLOW	
RP	– RADIUS POINT	
R	– RADIUS	
RR	– RAILROAD	
REINF	– REINFORCED	
RC	– REINFORCED CONCRETE	
RCB	– REINFORCED CONCRETE BOX	
RELOC	– RELOCATE	
RCP	– REINFORCED CONCRETE PIPE	
RFCA	– RESTRAINED FLANGE COUPLING ADAPTER	
RJ	– RESTRAINED JOINT	
RT	– RIGHT	
R/W, ROW	– RIGHT OF WAY	
RD	– ROAD	
S–G	– STEEL GAS	
SS	– SANITARY SEWER	
SST	– STAINLESS STEEL	
SHT	– SHEET	
S/O	– SOUTH OF	
SW	– SIDEWALK	
SQ FT, SF	– SQUARE FOOT	
SQ YD, SY	– SQUARE YARD	
STA	– STATION	
SHP	– STEEL HIGH–PRESSURE PIPE	
SD	– STORM DRAIN	
STD	– STANDARD	
STRUCT	– STRUCTURAL OR STRUCTURE	
SURV	– SURVEY	
SL	– STREETLIGHT	
T, TELE	– TELEPHONE	
TEMP	– TEMPORARY	
TBA	– TO BE ADJUSTED	
TBR	– TO BE REMOVED	
TC	– TOP OF CURB	
TMH	– TOP OF MANHOLE	
TP	– TOP OF PIPE	
TS	– TRAFFIC SIGNAL	
TSC	– TRAFFIC SIGNAL CONDUIT	
TSI	– TRAFFIC SIGNAL INTERCONNECT	
TRANS	– TRANSITION	
TW	– TOP OF WALL	
TYP	– TYPICAL	
UG	– UNDERGROUND	
UGE	– UNDERGROUND ELECTRICAL	
UG–UT	– UNDERGROUND UTILITIES	
VAR	– VARIABLE	
VERT	– VERTICAL	
VC	– VERTICAL CURVE	
VG	– VALLEY GUTTER	
VCP	– VITRIFIED CLAY PIPE	
W, WTR	– WATER	
WM	– WATER METER	
W/O	– WEST OF	
YD	– YARD	

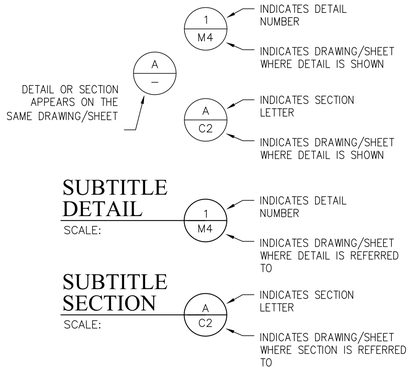
PROPOSED LEGEND:

- 12+00 — CONSTRUCTION CONTROL LINE
- 8" W (DI) — WATER MAIN
- FENCE
- CONSTRUCTION BARRIER FENCE
- DRAINAGE SWALE
- GRADE BREAK
- BLOW–OFF ASSEMBLY
- COMBINATION AIR VALVE ASSEMBLY
- VALVE
- FIRE HYDRANT
- TRACER WIRE LOCATE STATION
- WATER METER
- TREE REMOVAL, TYP
- BOLLARD
- INDICATES STRUCTURES, EQUIPMENT, AND PIPE TO BE DEMOLISHED OR ABANDONED
- 4705 — CONTOUR LINE
- PAVEMENT RESTORATION
- SAWCUT LINE
- PUSH ON JOINT FITTING
- FLANGED FITTING
- MECHANICAL JOINT FITTING
- FLANGED COUPLING ADAPTER
- FLEXIBLE COUPLING
- WELDED FITTING

PROFILE KEY



DETAIL AND SECTION DESIGNATION:



EXISTING LEGEND:

- WATERLINE
- FIRE WATERLINE
- IRRIGATION
- SANITARY SEWER
- SANITARY SEWER FORCEMAIN
- STORM DRAIN
- ELECTRICAL
- OVER HEAD POWER
- TELEPHONE/COMM LINE
- FIBER OPTIC LINE
- GAS MAIN/LATERAL
- CONDUIT
- EDGE OF PAVEMENT
- APPROX. RIGHT OF WAY
- EASEMENT
- FENCE WIRE
- DITCH/DRAINAGE CHANNEL
- 4700 — CONTOUR LINE
- VALVE
- VALVE
- UTILITY VAULTS/BOXES (UG ELECTRIC, TELEPHONE, FIBER OPTICS AND CABLE TV)
- WATER METER
- FIRE HYDRANT
- UTILITY POLE
- UTILITY POLE AND ANCHOR
- LIGHT POLE
- SIGN
- MANHOLE
- CLEANOUT
- BUILDING
- TREES AND VEGETATION

VALVE SYMBOLS:

- GATE VALVE
- BALL VALVE
- BLOW–OFF ASSEMBLY
- GLOBE VALVE
- CHECK VALVE
- NEEDLE VALVE
- CONTROL VALVE
- E=ELECTRONICALLY ACTIVATED VALVE
M=MOTOR ACTIVATED VALVE
S=SOLENOID ACTIVATED VALVE
P=PNEUMATICALLY ACTIVATED VALVE
- THREE–WAY VALVE
- PRESSURE REGULATING VALVE
- PLUG VALVE
- BUTTERFLY VALVE
- DIAPHRAGM VALVE OR PINCH VALVE
- SWING CHECK VALVE
- BALL CHECK VALVE
- PRESSURE RELIEF VALVE
- FLAP VALVE
- AIR RELEASE VALVE
- HOSE RACK WITH HOSE VALVE
- HOSE VALVE
- FD — FLOOR DRAIN
- CO — CLEANOUT

REVISION	DESCRIPTION	BY	APP	DATE

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TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
LEGEND AND ABBREVIATIONS
WASHOE COUNTY NEVADA

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PLOT DATE: Mar 22, 2017 – 9:39am

BASIS OF BEARING:

NEVADA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983/1994, HIGH ACCURACY REFERENCE NETWORK (NAD 83/94–HARN), AS DETERMINED USING REAL TIME KINEMATIC (RTK) GPS OBSERVATIONS WITH CORRECTIONS TRANSMITTED BY THE NORTHERN NEVADA COOPERATIVE REAL TIME NETWORK GPS (NNCRN GPS) WITH TIES TO ONSITE TMWRF CONTROL POINTS LISTED ON THE DOCUMENT TITLED 'SURVEY CONTROL FOR TMWRF' PREPARED BY THE CITY OF RENO AND DATED MARCH 19, 2015. THE CONTROL POINTS BEING FURTHER DESCRIBED AS FOLLOWS: FOUR (4) SURVEY WELL MONUMENT CASINGS WERE SET (MARCH 2015) WITH A 2" DIAMETER ALUMINUM CAP ATTACHED TO A 5/8" BY 24" ALUMINUM ROD STAMPED, "TMWRF SURVEY CONTROL", WITH PUNCH PER CITY OF RENO PUBLIC WORKS CONSTRUCTION DETAIL, R–124, DATED 01/2013, ON TOP OF THE EQUALIZATION POND IN THE ASPHALT SURFACE OF THE PERIMETER ROAD.

ALL DIMENSIONS SHOWN ARE GROUND DISTANCES.
COMBINED GRID–TO–GROUND FACTOR = 1.000197939.

HORIZONTAL DATUM:

NEVADA STATE PLAN COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983/1994.

BASIS OF ELEVATION:

CITY OF RENO BENCHMARK 2631 – FOUND 1.5" DIAMETER STEEL CAP ON TOP OF CONCRETE BASE OF LAMP POST IN THE TRUCKEE MEADOWS WATER RECLAMATION FACILITY (TMWRF) PARKING LOT. SET MARCH 22, 1999.

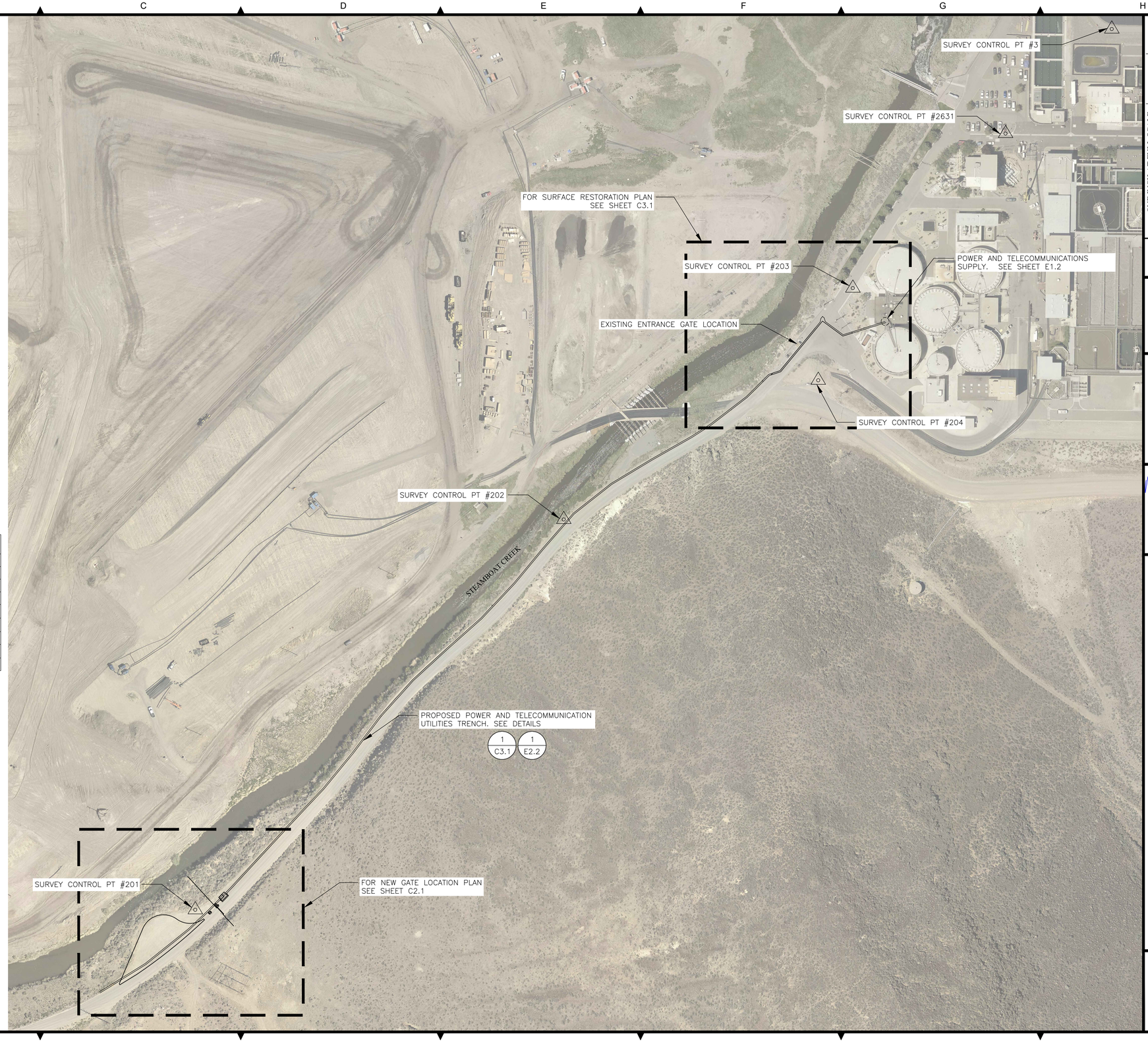
ELEVATION = 4403.81FEET (NAVD 88)

VERTICAL DATUM:

NORTH AMERICAN VERTICAL DATUM 1988 NAVD 88

SURVEY CONTROL POINTS:

PT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	14864724.46	2309646.81	4413.63	C.O.R. WELL MONUMENT
2	14864530.00	2309546.62	4413.86	C.O.R. WELL MONUMENT
3	14864531.56	2309315.60	4413.69	C.O.R. WELL MONUMENT
4	14864729.18	2309290.63	4413.72	C.O.R. WELL MONUMENT
201	14862767.48	2307480.40	4394.73	5/8 REBAR/CAP–FWE CONTROL
202	14863549.38	2308218.01	4394.36	5/8 REBAR/CAP–FWE CONTROL
203	14864012.55	2308797.00	4403.70	PK IN AC
204	14863828.83	2308727.32	4414.98	5/8 REBAR/CAP–FWE CONTROL
2631	14864322.31	2309103.08	4403.81	COR BM 2631–1.5" STL CAP–LT POLE



N

100' 50' 0 100'
Scale Feet
1"=100'

FILE SPEC: P:\Client Projects\Sparks, City of 094\1029 TMWRF Entrance Gate Design\6.0 Drawings\6.1 DWG\XR_G SHEETS.dwg
PLOT DATE: Mar 22, 2017 - 9:40am

REVISION	DESCRIPTION	BY	APP	DATE

ONE INCH AT FULL SCALE:

JOB NO.: 1029
DATE: FEBRUARY 2017
SCALE:
DESIGNED: MS
DRAWN: BFE
CHECKED:

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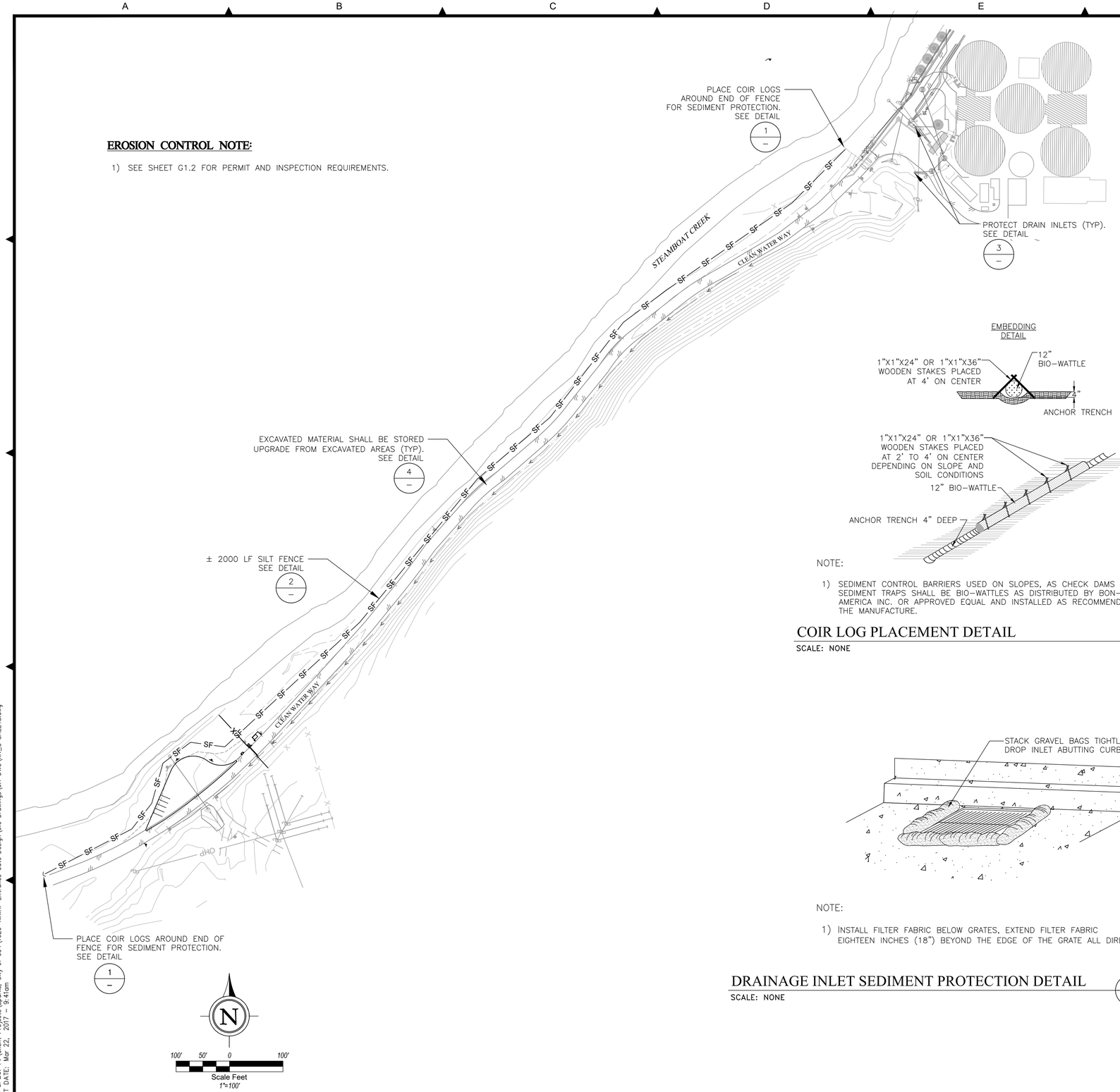
PROFESSIONAL ENGINEER STATE OF NEVADA
MATTHEW M. SCHULTZ
Exp. 6/30/18
CIVIL
No. 21004
SIGNED: 2/22/17

TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
OVERALL SITE PLAN AND SURVEY CONTROL
WASHOE COUNTY NEVADA

SHEET NUMBER
G2.1
4 OF 16

EROSION CONTROL NOTE:

1) SEE SHEET G1.2 FOR PERMIT AND INSPECTION REQUIREMENTS.



EMBEDDING DETAIL

NOTE:

1) SEDIMENT CONTROL BARRIERS USED ON SLOPES, AS CHECK DAMS OR AS SEDIMENT TRAPS SHALL BE BIO-WATTLES AS DISTRIBUTED BY BON-TERRA AMERICA INC. OR APPROVED EQUAL AND INSTALLED AS RECOMMENDED BY THE MANUFACTURE.

COIR LOG PLACEMENT DETAIL — 1/–

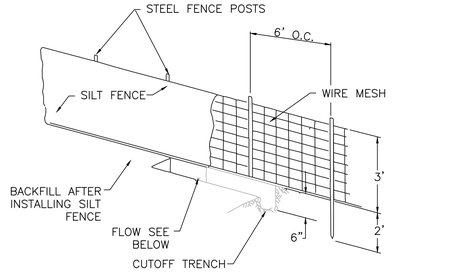
SCALE: NONE

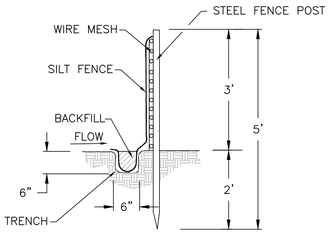
NOTE:

1) INSTALL FILTER FABRIC BELOW GRATES, EXTEND FILTER FABRIC EIGHTEEN INCHES (18") BEYOND THE EDGE OF THE GRATE ALL DIRECTIONS.

DRAINAGE INLET SEDIMENT PROTECTION DETAIL — 3/–

SCALE: NONE



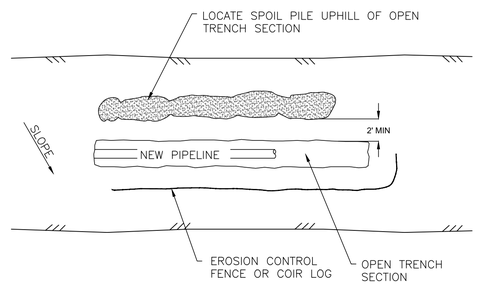


NOTE:

1) THE CONTRACTOR MAY USE MANUFACTURED SILT FENCING IN LIEU OF THE ABOVE, SUBJECT TO SUBMITTAL OF MANUFACTURER'S DATA SHEETS TO THE ENGINEER FOR APPROVAL.

SILT FENCE DETAIL — 2/–

SCALE: NONE



NOTE:

1) RELOCATE EROSION CONTROL FENCE/COIR LOG AS CONSTRUCTION PROGRESSES

OPEN TRENCH BMP DETAIL — 4/–

SCALE: NONE

ONE INCH AT FULL SCALE:

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TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
EROSION CONTROL PLAN AND DETAILS

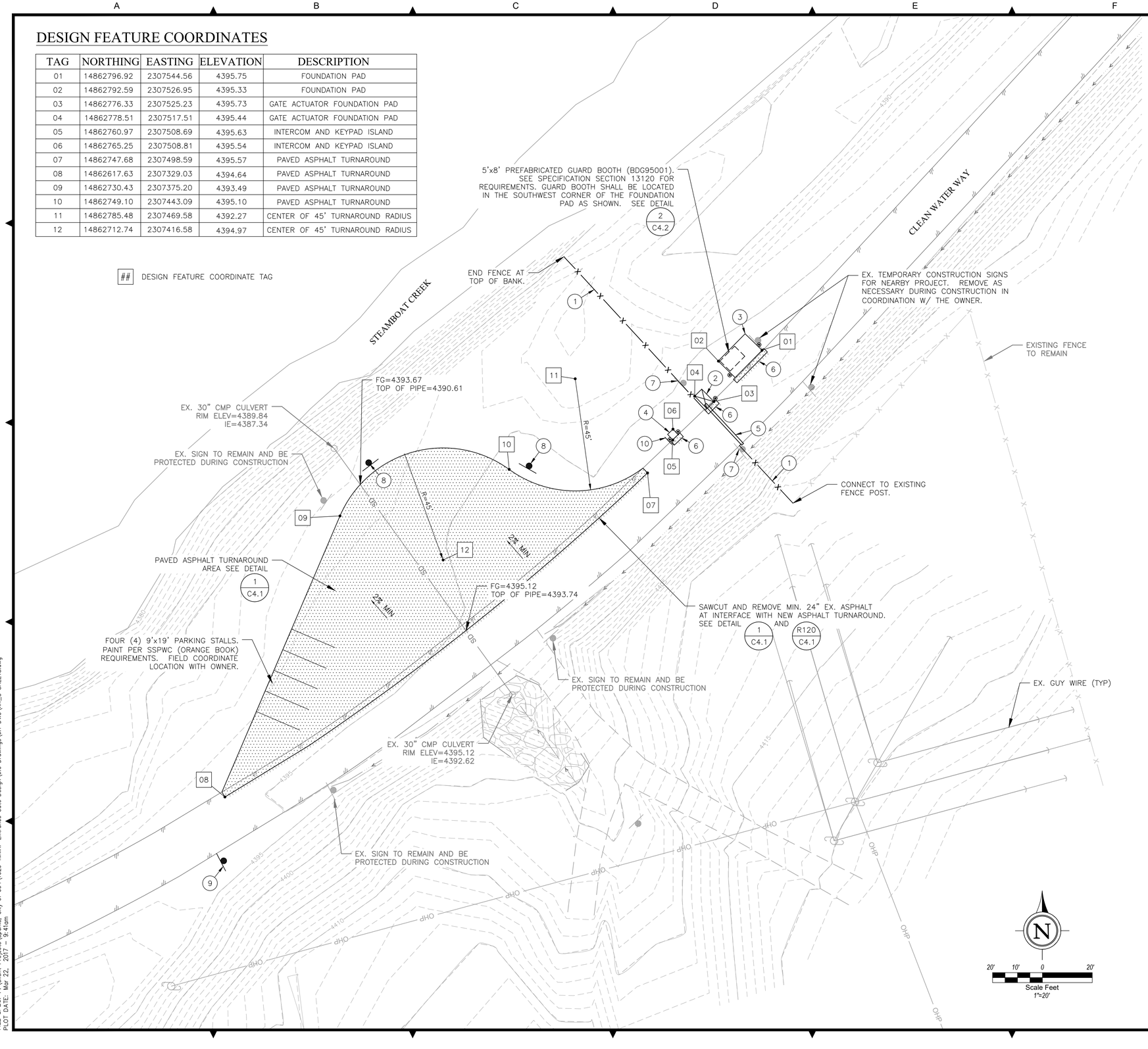
WASHOE COUNTY NEVADA

SHEET NUMBER
C1.1
5 OF 16

FILE SPEC: P:\Client Projects\Sparks, City of 094\1029 TMWRF Entrance Gate Design\6.0 Drawings\6.1 DWG\VR_C SHEETS.dwg
PLOT DATE: Mar 22, 2017 - 9:41am

DESIGN FEATURE COORDINATES

TAG	NORTHING	EASTING	ELEVATION	DESCRIPTION
01	14862796.92	2307544.56	4395.75	FOUNDATION PAD
02	14862792.59	2307526.95	4395.33	FOUNDATION PAD
03	14862776.33	2307525.23	4395.73	GATE ACTUATOR FOUNDATION PAD
04	14862778.51	2307517.51	4395.44	GATE ACTUATOR FOUNDATION PAD
05	14862760.97	2307508.69	4395.63	INTERCOM AND KEYPAD ISLAND
06	14862765.25	2307508.81	4395.54	INTERCOM AND KEYPAD ISLAND
07	14862747.68	2307498.59	4395.57	PAVED ASPHALT TURNAROUND
08	14862617.63	2307329.03	4394.64	PAVED ASPHALT TURNAROUND
09	14862730.43	2307375.20	4393.49	PAVED ASPHALT TURNAROUND
10	14862749.10	2307443.09	4395.10	PAVED ASPHALT TURNAROUND
11	14862785.48	2307469.58	4392.27	CENTER OF 45' TURNAROUND RADIUS
12	14862712.74	2307416.58	4394.97	CENTER OF 45' TURNAROUND RADIUS



GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR ADJACENT TO EXISTING UTILITIES.
2. LOCATIONS OF EXISTING UTILITIES, INCLUDING CONNECTIONS, FITTINGS, AND SIZES, ARE APPROXIMATE USING THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL POTHOLE UTILITIES TO VERIFY EXISTING CONDITIONS WHERE NECESSARY.
3. ALL ACTIVE UTILITY CROSSINGS SHALL HAVE 12" MINIMUM CLEARANCE UNLESS OTHERWISE NOTED.
4. UTILITY TRENCH SHALL BE IN ACCORDANCE WITH DETAIL 1/E2.2

   TRENCH LOCATION IN ROAD SHOULDER SHALL BE PER DETAIL 1/C3.1
5. ASPHALT TO BE REMOVED SHALL BE SAWCUT PER STANDARD DETAIL R120/C4.1
6. COORDINATE FINAL LANGUAGE AND COLORS TO BE PRINTED ON SIGNS W/ TMWRF PRIOR TO PURCHASE OF SIGNS.
7. CONTRACTOR RESPONSIBLE FOR TRAFFIC CONTROL. SEE SHEET C4.3.
8. SEE SHEET G1.2 FOR PERMIT, MATERIAL TESTING, AND INSPECTION REQUIREMENTS.

SURFACE RESTORATION NOTES

1. CONTRACTOR SHALL REPAIR AND REPLACE LANDSCAPE AND FENCING DISTURBED BY CONSTRUCTION TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
2. RESTORE PAVEMENT PER DETAIL R120/C4.1. COORDINATE FINAL SAWCUT LIMITS WITH ENGINEER.
3. RECONSTRUCT CURB AND GUTTER AS NECESSARY PER DETAIL R109/C4.2

CIVIL IMPROVEMENT NOTES

1. 6' CHAIN LINK FENCE SEE DETAIL 2/C4.1
2. GATE ACTUATOR PAD W/ (2) BOLLARDS AT PAD CORNERS. COORDINATE FINAL LOCATIONS WITH GATE OPERATOR MANUFACTURER.

   SEE DETAIL 4/C4.1 AND 6/C4.1
3. 184.5"x114" FOUNDATION PAD W/ (2) BOLLARDS AT ROADSIDE CORNERS SEE DETAILS 4/C4.1 AND 6/C4.1
4. 4'x6' CONCRETE ISLAND W/ 4 BOLLARDS AT CORNERS. SEE DETAILS 4/C4.1 AND 6/C4.1
5. 22' WIDE CHAIN LINK GATE W/ BARBED WIRE AND ELECTRICAL ACTUATOR (MLE95002). VERIFY GATE LENGTH WILL BE SUFFICIENT W/ GATE SUPPLIER. NOTIFY ENGINEER IF CONFLICT PRIOR TO PURCHASE.
6. CUT AND REMOVE ASPHALT AS NECESSARY TO CONSTRUCT. REPLACE ASPHALT PER DETAIL R120/C4.1
7. EX. SIGN TO BE REMOVED DURING FENCE CONSTRUCTION. REPLACE SIGN AFFIXED TO SIGN POST OR FENCE POST OUTSIDE OF FENCE AFTER FENCE CONSTRUCTION.
8. SIGN READING "NO PARKING" "PAVED AREA TO REMAIN CLEAR FOR VEHICLE TRAFFIC". SEE DETAIL 1/C4.2
9. SIGN READING "RESTRICTED ACCESS IN 250 FEET. AUTHORIZED ADMITTANCE ONLY BEYOND GATE". SEE DETAIL 1/C4.2
10. AFFIX SIGN TO BOLLARD READING "TRUCKEE MEADOWS WATER RECLAMATION FACILITY. AREA UNDER VIDEO SURVEILLANCE. UTILIZE INTERCOM TO REQUEST FACILITY ACCESS". SEE DETAIL 1/C4.2

REVISION	DESCRIPTION	BY	APP	DATE
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CIVIL
No. 21004
SIGNED: 2/22/17

TRUCKEE MEADOWS WATER RECLAMATION FACILITY ENTRANCE GATE PROJECT

NEW GATE LOCATION SITE AND GRADING PLAN

WASHOE COUNTY NEVADA

SHEET NUMBER
C2.1
6 OF 16

FILE SPEC: P:\Client Projects\Sparks, City of 094\1029 TMWRF Entrance Gate Design\6.0 Drawings\6.1 DWG\XR_C SHEETS.dwg
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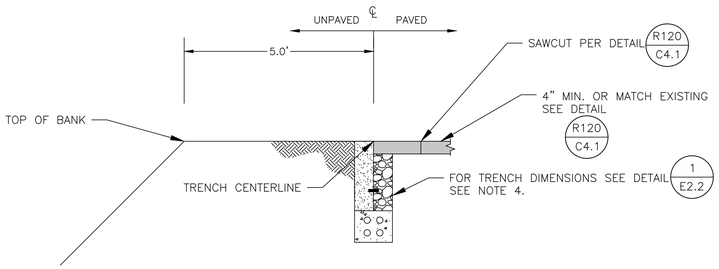

NOTES:

1. TRENCH WILL BE LOCATED IN BOTH PAVED PORTIONS OF THE STREET AND UNPAVED PORTIONS OF THE ROAD SHOULDER.
2. INTENT IS FOR TRENCH TO BE LOCATED IN ROAD SHOULDER TO GREATEST EXTEND POSSIBLE.
3. 5' MIN. DISTANCE TO ACCOMMODATE SMALL EXCAVATION EQUIPMENT CENTERED ON TRENCH.
4. SEE SPECIFICATIONS FOR BACKFILL MATERIAL AND COMPACTION REQUIREMENTS.

ROADWAY SHOULDER LOCATION

1 / C3.1

SCALE: NONE

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE WHEN TRENCHING ACROSS OR ADJACENT TO EXISTING UTILITIES.
2. LOCATIONS OF EXISTING UTILITIES, INCLUDING CONNECTIONS, FITTINGS, AND SIZES, ARE APPROXIMATE USING THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL POTHOLE UTILITIES TO VERIFY EXISTING CONDITIONS WHERE NECESSARY.
3. ALL ACTIVE UTILITY CROSSINGS SHALL HAVE 12" MINIMUM CLEARANCE UNLESS OTHERWISE NOTED.
4. UTILITY TRENCH SHALL BE IN ACCORDANCE WITH DETAIL 1 / E2.2
5. COORDINATE FINAL LANGUAGE AND COLORS TO BE PRINTED ON SIGNS W/ TMWRF PRIOR TO PURCHASE OF SIGNS.

SURFACE RESTORATION NOTES

1. RESTORE ALL SURFACES TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
2. RESTORE PAVEMENT PER DETAIL R120/C4.1. COORDINATE FINAL SAWCUT LIMITS WITH ENGINEER.
3. RECONSTRUCT CURB AND GUTTER AS NECESSARY PER DETAIL R109/C4.2.

CIVIL IMPROVEMENT NOTES

1. REPLACE EX. GRAVEL SURFACE
2. REPLACE CURB, GUTTER, AND SIDEWALK PER DETAIL R105 / C4.2 AND R109 / C4.2
3. PROTECT EX. LANDSCAPE TO THE GREATEST EXTENT POSSIBLE. REPLACE DAMAGED VEGETATION, IRRIGATION, BOULDERS, AND DECOMPOSED GRANITE TO EXISTING CONDITIONS.
4. REPLACE CURB AND GUTTER PER DETAIL R109 / C4.2
5. REMOVE EX. K RAILS, AS NEEDED. REPLACE AFTER ASPHALT PATCHING COMPLETED.
6. REMOVE AND DISPOSE OF EX. AC SPEED BUMP.

REVISION	DESCRIPTION	BY	APP	DATE

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TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
SURFACE RESTORATION PLAN
WASHOE COUNTY NEVADA

SHEET NUMBER
C3.1
7 OF 16

FILE SPEC: P:\Client Projects\Sparks, City of 094\1029 TMWRF Entrance Gate Design\6.0 Drawings\6.1 DWG\VR_C SHEETS.dwg
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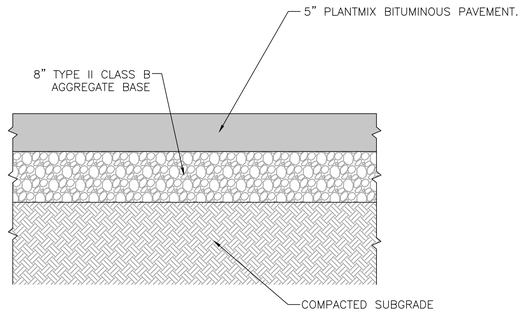


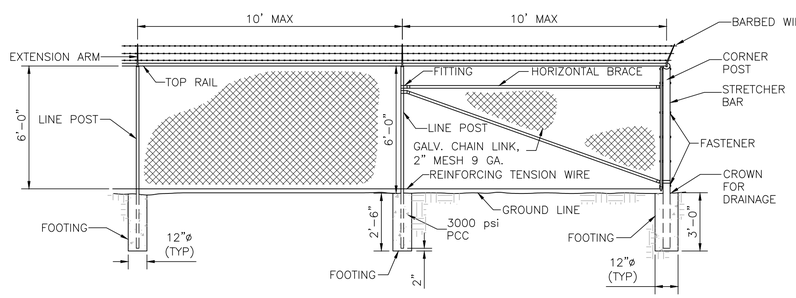
NOTES:

1) CONTRACTOR SHALL PROVIDE 10 WORKING DAYS TO OWNER FOR AC MIX DESIGN APPROVAL.

TURNAROUND AREA 5"/8" PAVEMENT DETAIL

SCALE: NONE

1 C4.1



ELEVATION

NOTES:

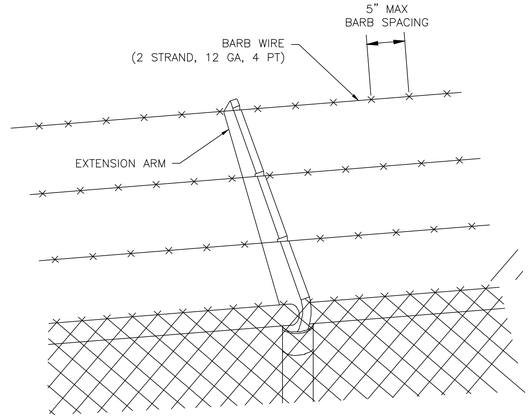
1. FENCING SHALL BE CHAIN LINK AND SHALL CONSIST OF GALVANIZED CHAIN LINK FABRIC ON STEEL POSTS.
   - (A) ALL POST TOPS SHALL BE FITTED WITH SUITABLE FINIALS.
   - (B) BRACES SHALL BE SPACED APPROXIMATELY 12" BELOW TOP OF TERMINAL POSTS AND SHALL EXTEND FROM CORNER POSTS TO ADJACENT LINE POSTS.
   - (C) TOP AND BOTTOM SELVAGES OF THE FENCE SHALL HAVE A TWISTED AND BARBED FINISH.

LOCATION	MIN. SIZE
CORNER	2-7/8" O.D.
LINE	2-3/8" O.D.
BRACES	1-5/8" O.D.
TOP RAIL	1-5/8" O.D.

6' CHAINLINK FENCE DETAIL

SCALE: NONE

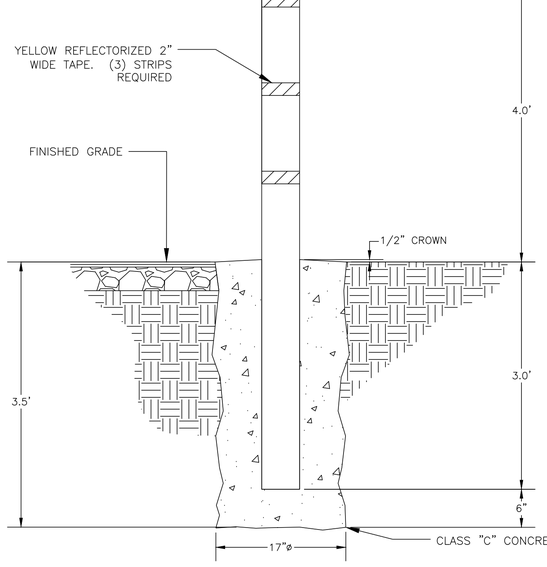
2 C4.1



BARBED WIRE DETAIL

SCALE: NONE

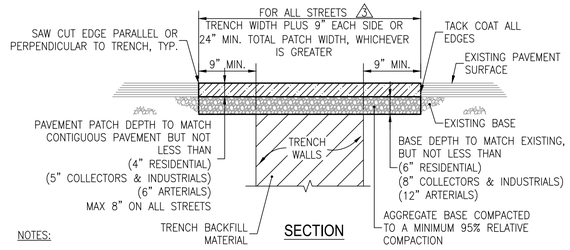
3 C4.1



PERMANENT BOLLARD

SCALE: NONE

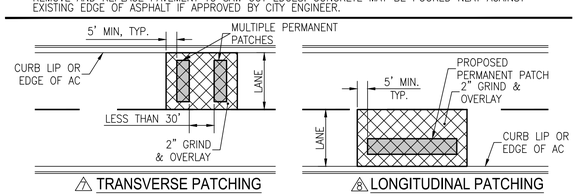
4 C4.1



SECTION

NOTES:

1. AN EXCAVATION/ENCROACHMENT PERMIT MUST BE OBTAINED FROM CITY OF RENO PRIOR TO CUTTING ANY PUBLIC RIGHT-OF-WAY.
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. THE CITY ENGINEER MAY REQUIRE WIDER PATCH SECTIONS OR OTHERWISE ALTER THESE REQUIREMENTS.
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. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF LOOP DETECTORS, ADJUSTMENT OF UTILITIES AND SURVEY MONUMENTS TO GRADE AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
6. 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 CITY ENGINEER.



3 TRANSVERSE PATCHING

8 LONGITUDINAL PATCHING

ALL STREETS WITH PAVEMENT CONDITION INDEX (PCI) GREATER THAN 65:

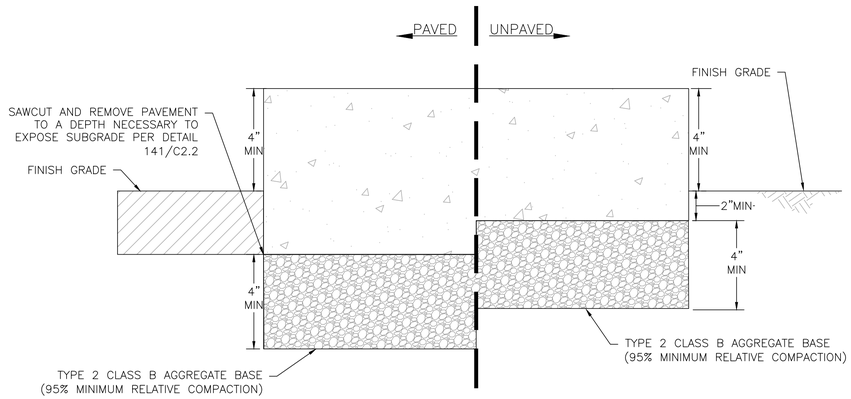
3 TRANSVERSE PATCHES SHALL INCLUDE A 2" GRIND AND OVERLAY WHEREVER THERE ARE MULTIPLE PATCHES WITHIN 30 FEET OF EACH OTHER.

8 LONGITUDINAL PATCHES SHALL INCLUDE 2" GRIND AND OVERLAY TO THE LANE LINES (BIKE, PARKING, OR TRAVEL).

CITY OF RENO PERMANENT BITUMINOUS PAVEMENT PATCH

SCALE: NONE

R120 C4.1



NOTES:

1. SEE CONCRETE WORK REQUIREMENTS ON SHEET G1.2.

CONCRETE SLAB DETAIL

SCALE: NONE

6 C4.1

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CIVIL DETAILS
WASHOE COUNTY NEVADA

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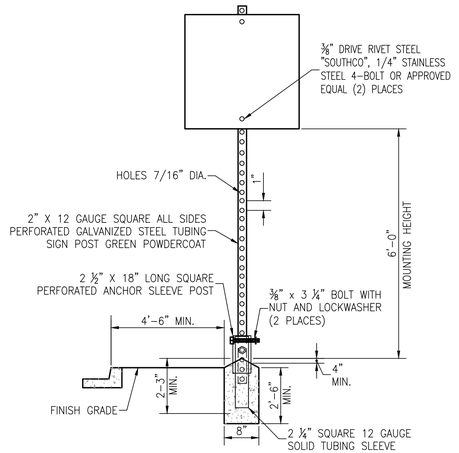
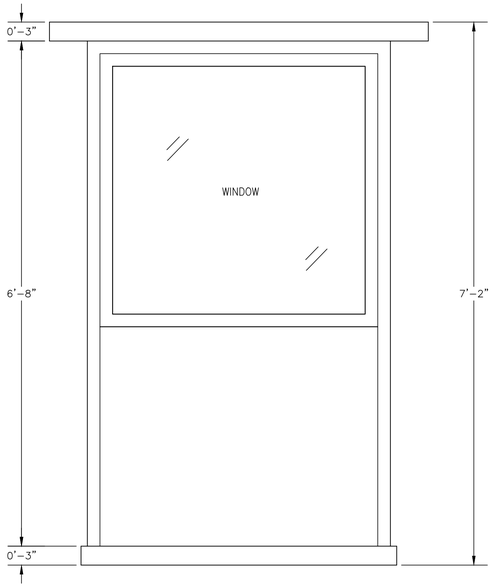


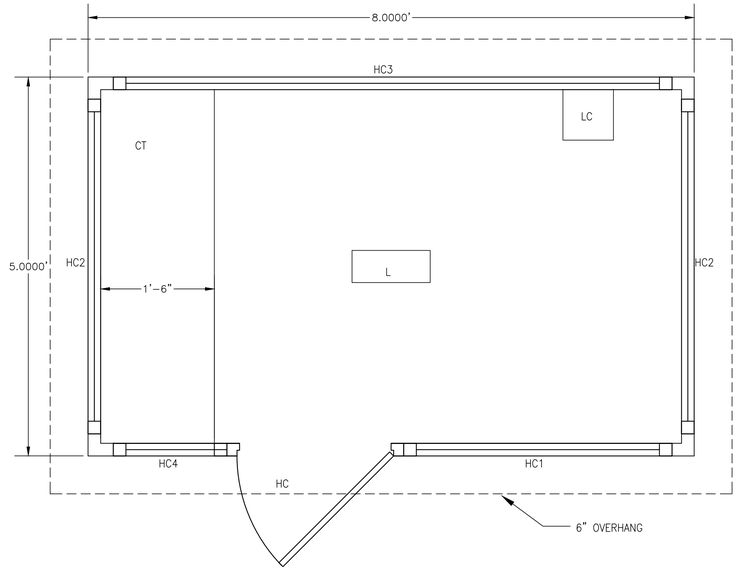
NOTES:
1. SIGN MATERIALS, CONSTRUCTION AND PLACEMENT SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. SEE DRAWINGS FOR GENERAL SIGN CONTENTS AND LANGUAGE. FINAL LANGUAGE AND COLORS SHALL BE COORDINATED AND APPROVED BY TMWRF PRIOR TO PURCHASE OF SIGN.
3. MODIFY CONNECTION METHOD FOR SIGNS NOT CONNECTED TO SIGN POST. STAINLESS STEEL U BOLT CONNECTION MAY BE USED FOR ALTERNATE CONNECTIONS INCLUDING BOLLARDS.

TRAFFIC SIGN INSTALLATION DETAIL

SCALE: NONE

1 / C4.2





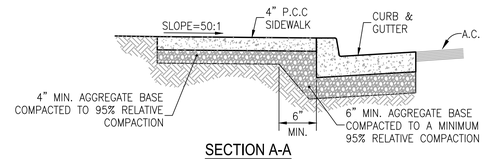
GUARD BOOTH LAYOUT

SCALE: 1"=1'

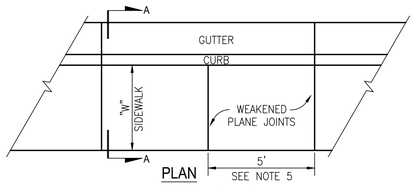
2 / C4.2

LEGEND

HC	HALF GLASS DOOR	
HC1	WINDOW	36" x 43 1/4"
HC2	WINDOW	54" x 43 1/4"
HC3	WINDOW	89 3/8" x 43 1/4"
HC4	WINDOW	16" x 43 1/4"
L	LIGHT	
LC	LOAD CENTER	
CT	COUNTER TOP	



SECTION A-A



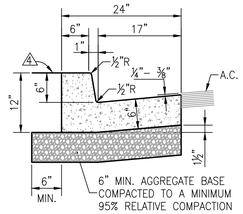
PLAN

NOTES:
1. FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. 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 A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
2. AGGREGATE BASE MATERIAL UNDER SIDEWALKS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
3. SIDEWALK WIDTH "W" SHALL BE 4 FT MIN. ON RESIDENTIAL STREETS AND 6 FT MIN. ON COLLECTOR AND ARTERIAL STREETS.
4. WEAKENED PLANE JOINTS SHALL BE CONSTRUCTED AT 5 FT INTERVALS AND ACCORDANCE WITH SECTION 312 OF THE SSPWC.
5. ALL ADJACENT CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES AT RIGHT ANGLES TO NEW SIDEWALK. DOWEL INTO EXISTING ADJACENT CONCRETE SIDEWALK WITH A MINIMUM OF TWO (2) No. 4 REINFORCEMENT BARS EQUALLY SPACED ACROSS WIDTH "W". DOWELS SHALL PENETRATE A MINIMUM OF 4" INTO EXISTING CONCRETE.
6. SIDEWALKS SHALL NOT BE POURED MONOLITHICALLY WITH CURBS.
7. COLORED CONCRETE AND PAVERS ARE NOT ALLOWED.
8. TUNNELING AND/OR BORING IS NOT ALLOWED.

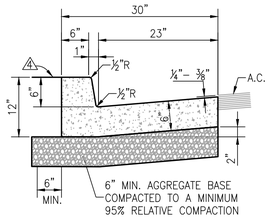
CITY OF RENO SIDEWALK DETAIL

SCALE: NONE

R105 / C4.2



TYPE 1



TYPE 1A

NOTES:
1. FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH AT 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH MAX. WATER-CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. 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 A COARSE AGGREGATE GRADATION CONFORMING TO SIZE No. 67. POLYPROPYLENE OR CELLULOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
2. AGGREGATE BASE MATERIAL UNDER AND BEHIND CURB AND GUTTER SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
3. WEAKENED PLANE JOINTS SHALL BE EVERY 10 FEET AND LOCATED ON THE BACK, TOP AND FACE OF THE CURB AND THE TOP OF THE GUTTER PAN.
4. CURB & GUTTER SECTIONS SHALL BE PLACED SEPARATELY FROM SIDEWALK SECTIONS. WHEN SIDEWALK IS NOT REQUIRED DIRECTLY BEHIND THE CURB, BACKFILL TO TOP OF CURB FOR A HORIZONTAL DISTANCE OF 12" FROM BACK FACE OF CURB AND COMPACT TO 90% RELATIVE COMPACTION.
5. FOR REPLACEMENT OF EXISTING CURB AND GUTTER, MATCH EXISTING TYPE.

CITY OF RENO P.C.C. CURB AND GUTTER DETAIL

SCALE: NONE

R109 / C4.2

ONE INCH AT FULL SCALE:

REVISION	DESCRIPTION	BY	APP	DATE

JOB NO.: 1029
DATE: FEBRUARY 2017
SCALE:
DESIGNED: MS
DRAWN: BFE
CHECKED:

FARR WEST ENGINEERING
5510 LONGLEY LANE
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PHONE: (775) 851-4788
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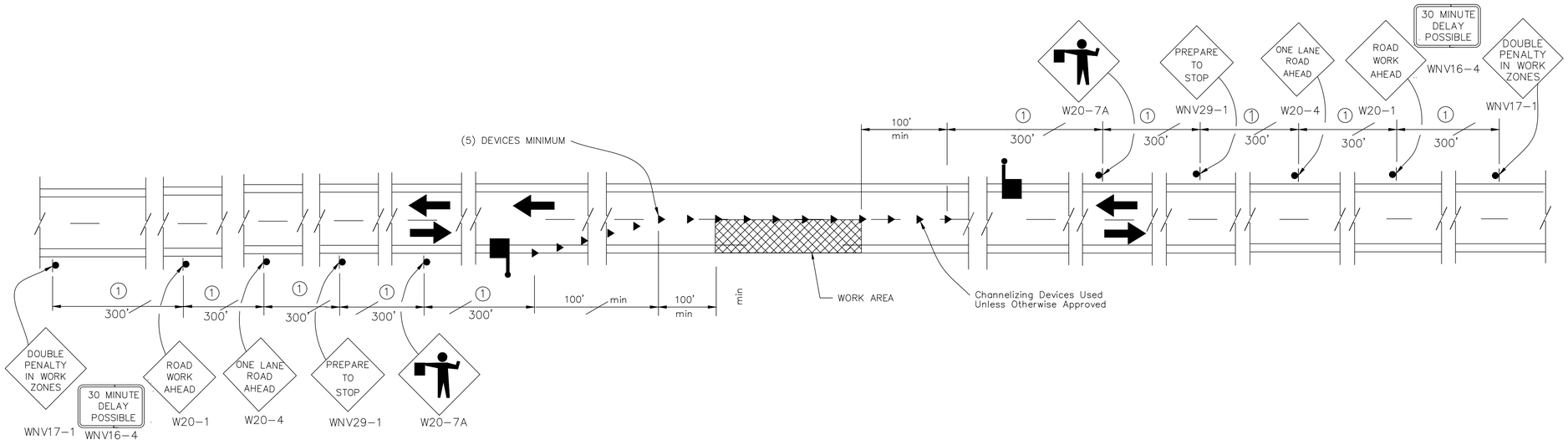
PROFESSIONAL ENGINEER - STATE OF NEVADA
MATTHEW M. SCHULTZ
Exp. 6/30/18
CIVIL
No. 21004
SIGNED: 2/22/17

TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
CIVIL DETAILS
WASHOE COUNTY NEVADA

SHEET NUMBER
C4.2
9 OF 16

FILE SPEC: P:\Client Projects\Sparks, City of 094\1029 TMWRF Entrance Gate Design\6.0 Drawings\6.1 DWG\XR_C SHEETS.dwg
PLOT DATE: Mar 22, 2017 - 9:41am



TYPICAL TRAFFIC CONTROL DETAIL - TWO LANE 2-WAY STREET

SCALE: NTS

1 / C4.3

NOTES:

1. TRAFFIC CONTROL DETAIL PER MUTCD AND NDOT STANDARDS.
2. ADDITIONAL TRAFFIC CONTROL REQUIREMENTS CAN BE FOUND IN SECTION 22 – TRAFFIC CONTROL PLANS OF THE SPECIAL PROVISIONS.

ONE INCH AT FULL SCALE:

REVISION	DESCRIPTION	BY	APP	DATE

JOB NO.: 1029
DATE: FEBRUARY 2017
SCALE:
DESIGNED: MS
DRAWN: BFE
CHECKED:

FARR WEST ENGINEERING
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PROFESSIONAL ENGINEER – STATE OF NEVADA
MATTHEW M SCHULTZ
Exp. 6/30/18
CIVIL
No. 21004
SIGNED: 2/22/17

TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
TRAFFIC CONTROL PLAN
WASHOE COUNTY NEVADA

SHEET NUMBER
C4.3
10 OF 16

FILE SPEC: P:\Client Projects\Sparks, City of 094\1029 TMWRF Entrance Gate Design\6.0 Drawings\6.1 DWG\XR_C SHEETS.dwg
PLOT DATE: Mar 22, 2017 - 9:41am

ELECTRICAL GENERAL NOTES

1. ALL EQUIPMENT, MATERIALS AND WORK SHOWN ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING. OR NOTED OTHERWISE ON OTHER SHEETS.
2. PRIOR TO PURCHASE OF ANY PANEL, PROTECTIVE DEVICES, SWITCH, STARTER, CONDUIT, WIRE, ETC., TO FEED ANY PIECE OF MECHANICAL EQUIPMENT VERIFY THE VOLTAGE, PHASE, & LOAD OF THAT ITEM IN THE FIELD AND/OR WITH THE PARTICULAR ENTITY INVOLVED IN FURNISHING THE ITEM SUCH THAT THE PROPER SIZE & RATING OF THE MATERIALS ARE PURCHASED. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO COMPLY. THIS APPLIES TO ALL EQUIPMENT UNDER OTHER SECTIONS & BY THE OWNER.
3. APPEARANCE AND WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY AND STANDARDS.
4. VERIFY THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT PRIOR TO ROUGH-IN. FINAL CONNECTIONS OF EQUIPMENT SHALL BE PER MANUFACTURERS APPROVED WIRING DIAGRAMS, DETAILS AND INSTRUCTIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE MATERIALS AND EQUIPMENT COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED.
5. ORDER AND/ OR RELEASE ORDERED MATERIALS PROMPTLY AFTER SUBMITTAL APPROVAL. NO SUBSTITUTIONS OR ALTERNATE METHODS OF INSTALLATION WILL BE ACCEPTED FOR FAILURE TO ORDER MATERIALS IN A TIMELY FASHION.
6. OBTAIN WRITTEN APPROVAL FROM THE ENGINEER OF ALL SHOP DRAWINGS AND MANUFACTURERS DATA FOR PANEL BOARDS, TRANSFORMERS, WIRING DEVICES, ETC. BEFORE RELEASING ORDERED MATERIALS. SUBMITTAL DATA SHALL INDICATE THAT THE CONTRACTOR HAS REVIEWED THE INFORMATION THEREIN AND THAT THE PROPOSED EQUIPMENT WILL MEET THE PHYSICAL CONSTRAINTS AT THE JOB SITE. ANY SUBSTITUTIONS SHALL BE OF EQUIVALENT OR BETTER QUALITY THAN THE SPECIFIED COMPONENTS.
7. CONDUIT/ CONDUCTOR RUNS SHOWN ARE DIAGRAMMATICAL ONLY. THE BEST FINAL CONDUIT ROUTING SHALL BE AS DETERMINED BY THE ELECTRICAL CONTRACTOR AT TIME OF CONSTRUCTION.
8. PROVIDE ALL PANEL BOARDS WITH TYPED DIRECTORIES INSTALLED UNDER A CLEAR PLASTIC COVER. SUBMIT DIRECTORY INFORMATION TO THE OWNER FOR APPROVAL PRIOR TO FINALIZATION.
9. PROVIDE ALL TRENCHING, EXCAVATION, BACK FILLING, SHORING, PUMPING, COMP ACTION TESTS, ETC. THAT ARE REQUIRED FOR THE SCOPE OF ELECTRICAL WORK.

GENERAL DEMOLITION NOTES

1. ELECTRICAL DEVICES AND EQUIPMENT THAT ARE INDICATED BY DASHED 'X' LINES SHALL BE REMOVED ENTIRELY, INCLUDING JUNCTION BOXES AND CIRCUITING ASSOCIATED WITH SAID ITEM.
2. THESE PLANS DO NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. ANY OUTLETS, CIRCUITING AND/OR DEVICES THAT CONFLICT WITH ALL WORK BEING PERFORMED DURING THE COURSE OF THIS PROJECT SHALL BE RELOCATED/REROUTED OR REMOVED ENTIRELY AS DICTATED BY ENGINEER.
3. ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO OWNER FOR SALVAGE. EQUIPMENT SELECTED SHALL BE TURNED OVER TO OWNER ON PROJECT SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM PROJECT SITE.
4. IT IS RECOMMEND THAT THE CONTRACTOR VISIT SITE AND VERIFY EXISTING CONDITIONS THAT MIGHT AFFECT HIS OR HER WORK. ALL DISCREPANCIES SHALL BE REPORTED TO ENGINEER PRIOR TO BID.
5. EXISTING MECHANICAL POWER CIRCUITRY SHALL BE REUSED AND RECONNECTED FOR EXISTING MECHANICAL EQUIPMENT.

ELECTRICAL SYMBOL LIST

Symbol	Description
------	ELECTRICAL CONDUIT LINES
—COM—	COMMUNICATION CONDUIT LINES
—JT—	JOINT TRENCH LINE
	ELECTRICAL PANEL BOARD OR DISTRIBUTION EQUIPMENT
	TRANSFORMER
	AUXILIARY SYSTEM TERMINAL CABINET
	PRECAST CONCRETE PULLBOX COMPUTER/ SIGNAL (SIZE AS INDICATED)
	PRECAST CONCRETE PULLBOX ELECTRICAL (SIZE AS INDICATED)
	ELECTRICAL PULLBOX
	DISCONNECT SWITCH (20A/3P UNLESS NOTED OTHERWISE
	PUSH BUTTON W/ INDICATOR LIGHT
CR	SECURITY CARD READER
IR	INFRARED SENSOR
	VIDEO SURVEILLANCE CAMERA
	LED LIGHT FIXTURE AND POLE
J	WP WALL MOUNTED JUNCTION BOX
J	JUNCTION BOX
	RACEWAY UP
	RACEWAY DOWN
1	SHEET NOTE

DETAIL DESIGNATION:

1 — DETAIL IDENTIFICATION NUMBER
E2.1 — SHEET NUMBER ON WHICH DETAIL IS DRAWN

* NOTE: ALL MOUNTING HEIGHTS AS INDICATED UNLESS NOTED OTHERWISE.
ALL SYMBOLS MAY NOT BE USED ON PROJECTS.

ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTER. INSTALL 4" ABOVE SPLASH OR COUNTER OR AT HEIGHT AS INDICATED ON DRAWINGS
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
CCTV	CLOSED CIRCUIT TELEVISION CAMERA
NEC	NATIONAL ELECTRICAL CODE
℄	CENTERLINE
CU	COPPER
EC	EMPTY CONDUIT WITH PULL WIRE
EX.	EXISTING
FBO	FURNISHED BY OTHER SECTION
F.O.	FIBER OPTIC
GFI	GROUND FAULT INTERRUPTING
N.I.C.	NOT IN CONTRACT
PNL	PANEL
RGS	RIGID GALVANIZED STEEL
TL	TWISTLOCK
TTB	TELEPHONE TERMINAL BOARD
UGP	UNDERGROUND POWER
UNSW	UNSWITCHED
UON	UNLESS OTHERWISE NOTED
W/	WITH
WP	WEATHERPROOF (NEMA 3R)
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

REVISION | DESCRIPTION | BY | APP | DATE

ONE INCH AT FULL SCALE.

JOB NO.: 1029
DATE: FEB 2017
SCALE:
DESIGNED: KBM
DRAWN: TLF
CHECKED:

FARR WEST ENGINEERING
5510 LONGLEY LANE
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FAX: (775) 851-0766
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REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — No. 018326 — NEVADA — Exp. 06/30/17 — 2/23/17

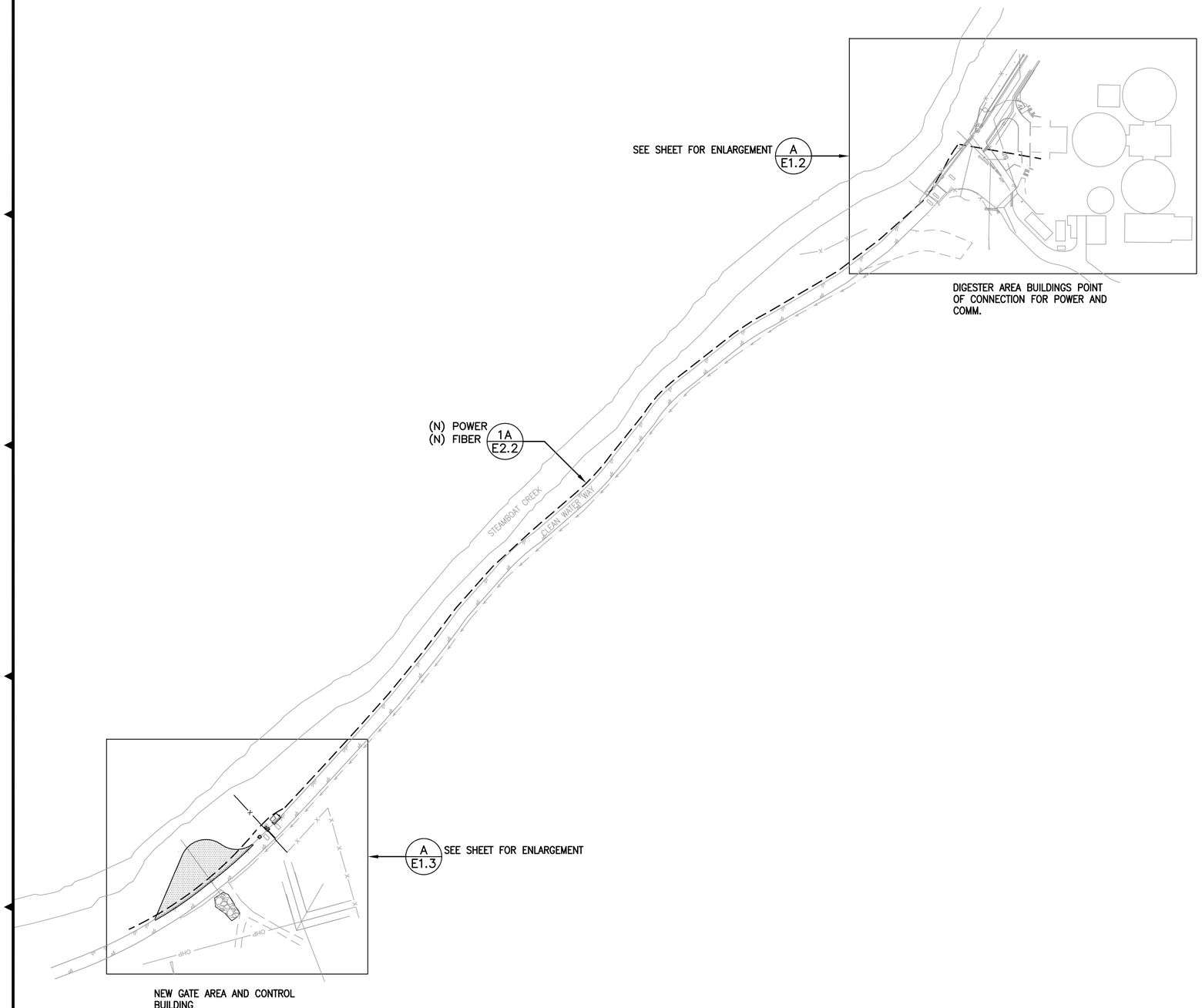
TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
ELECTRICAL SYMBOLS AND ABBREVIATIONS

WASHOE COUNTY NEVADA

DINTER
ENGINEERING CONFERENCE
Airfield Electrical Mechanical
385 Gentry Way
Reno, NV 89502
Ph: 775.826.4044
Fax: 775.826.4190
Web: dinter.com
J-4519

SHEET NUMBER
E0.1

FILE SPEC: J:\4500-4549\4519\E0.1.dwg
PLOT DATE: Feb 23, 2017 - 3:02pm



A
E1.1
OVERALL ELECTRICAL SITE PLAN
1"=100'
NORTH

ONE INCH AT FULL SCALE:

REVISION	DESCRIPTION	BY	APP	DATE

JOB NO.: 1029
DATE: FEB 2017
SCALE:
DESIGNED: KBM
DRAWN: TLE
CHECKED:

FARR WEST ENGINEERING
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TYLER C. LOESCH
No. 018376
STATE OF NEVADA
Exp. 06/30/17
ELECTRICAL
2/23/17

TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
OVERALL ELECTRICAL SITE PLAN
WASHOE COUNTY NEVADA

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Reno, NV 89502
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Fax: 775.826.4190
Web: dinter.com
J-4519

SHEET NUMBER
E1.1
12 OF 16

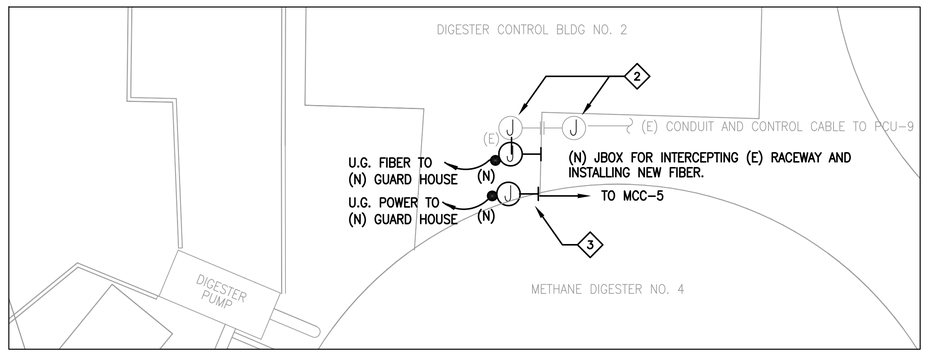
FILE SPEC: D:\4519\E1.1.dwg
PLOT DATE: Feb 23, 2017 - 2:34pm

SHEET NOTES

1. (E) EATON SERIES 2100, MCC-5, 480V, 3P. REMOVE (E) BUCKET FOR SLUDGE GAS COMPRESSORS 1&3 AND RETURN TO OWNER. PROVIDE NEW 100A/3P CIRCUIT BREAKER IN BUCKET POSITION.
2. (E) J-BOX FOR COMMUNICATION CABLES CONNECTING (E) GATE TO PCU-9. UTILIZE (E) INTERIOR RACEWAY FOR NEW FIBER TO (E) PCU-9 PULLING THROUGH CABINET INTO (N) PCU. PROVIDE 2" C CONNECTION PCU-9 TO NEW NETWORK CABINET.
3. NEW EXTERIOR J-BOX FOR POWER CONDUCTORS AND TRANSITION TO UG RACEWAY.
4. NEW 2" C W/ (3) #4/0 AND G. ROUTED OVERHEAD IN ELECTRIC ROOM FROM MCC-5 TO EXTERIOR J-BOX.
5. (4) 2" C ROUTED U.G. FROM EXTERIOR J-BOX TO GUARD HOUSE. USE CAUTION WHILE EXCAVATING THIS AREA.
6. (N) LOCKING FLOOR MOUNTED NETWORK CABINET (ITM32132). RITTAL 8085500, CARBON STEEL, TS8 TYPE 12 79"H X 39"W X 20"D WITH BASE. PROVIDE LIGHTING AND 120 V POWER SUPPLY, UPS AND MOUNTING ACCESSORIES FOR (2) RACKS COODINATE INSTALLATION REQUIREMENTS WITH TMWRF STAFF.
7. (E) MCC-4 WITH 120/208V DISTRIBUTION PANEL IN TOP RIGHT CUBICLE. CONNECT TO AVAILABLE 20A/1P CIRCUIT #8 BREAKER AND PROVIDE (3) #12'S IN 3/4" C ROUTED TO NEW NETWORK CABINET.
8. (E) PCU-9 UTILIZED FOR ROUTING NEW FIBER INTO (N) NETWORK CABINET. COORDINATE WITH TMWRF STAFF FOR TERMINATION PROCEDURE.

GENERAL NOTES

1. SEE SHEET E3.1 FOR SURFACE RESTORATION PLAN.



B E1.2 CONDUIT DETAIL
1"=10'
NORTH

A E1.2 ENLARGED ELECTRICAL SITE PLAN
1"=20'
NORTH

FILE SPEC: J:\4500-4549\4519\E1.2.dwg
PLOT DATE: Feb 23, 2017 - 2:36pm

ONE INCH AT FULL SCALE:

REVISION	DESCRIPTION	BY	APP	DATE

JOB NO.: 1029
DATE: FEB 2017
SCALE:
DESIGNED: KBM
DRAWN: TLE
CHECKED:

FARR WEST ENGINEERING
5510 LONGLEY LANE
RENO, NEVADA 89511
PHONE: (775) 851-4788
FAX: (775) 851-0786
FARRWESTENGINEERING.COM

STATE OF NEVADA — PROFESSIONAL ENGINEER — No. 018276 — WALTER C. HUTCH — Exp. 06/30/17 — ELECTRICAL
2/23/17

TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
ENLARGED ELECTRICAL SITE PLAN
WASHOE COUNTY NEVADA

DINTER CONSTRUCTION CO.
Airfield Electrical Mechanical
385 Gentry Way
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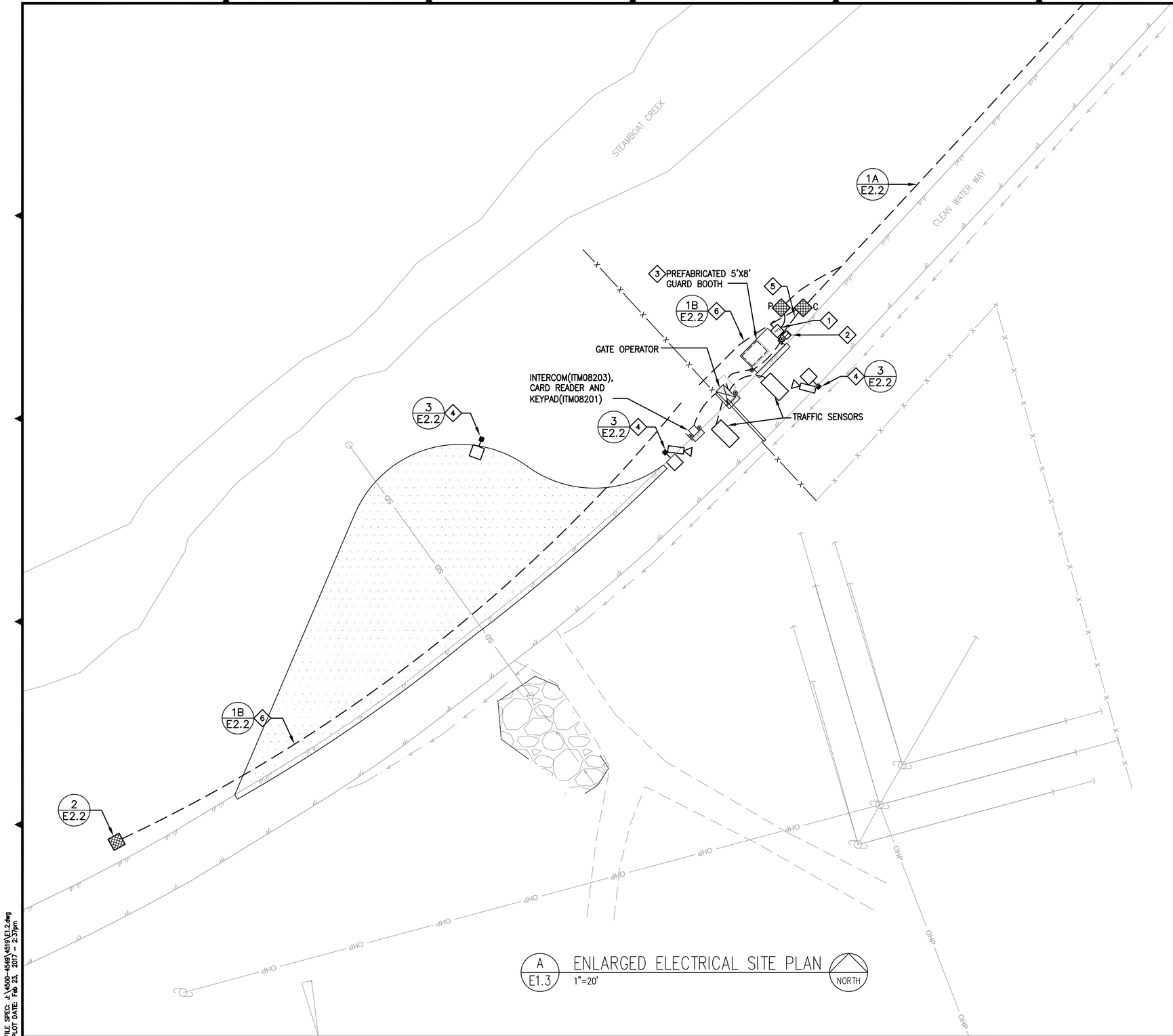
Ph: 775.826.4044
Fax: 775.826.4190
Web: dinter.com
J-4519

SHEET NUMBER
E1.2
13 OF 16



A E1.3 ENLARGED ELECTRICAL SITE PLAN 1"=20'

NORTH

SHEET NOTES

1. (N) 480V, NEMA 3R DISCONNECT FOR STEP-DOWN TRANSFORMER.
2. (N) 30KVA TRANSFORMER (XFR95005), NEMA 3R, DRY TYPE UNISTUT STRUT MOUNT. PROVIDE UNISTRUT STRUCTURE FOR DISCONNECT AND XFMR. MOUNTING., SEE SINGLE-LINE E2.1 AND DETAIL B/E2.1.
3. NEW GUARD BOOTH FURNISHED WITH 120/208V 3 PHASE, 100A PANEL (PPB95004) AND 50A MAIN CIRCUIT BREAKER F.B.O. COORDINATE WITH SUPPLIER FOR CORRECT RATINGS.
4. (N) 30' LED SITE LIGHTING FIXTURE POLE, BASE AND CCTV CAMERA(WCM95003 AND WCM95004), SEE DETAIL E2.2.
5. ROUTE FIBER OPTIC INTO GUARD BOOTH FOR CONNECTION OF ACCESS CONTROL SIGNALS.
6. PROVIDE FIBER AND U.G. RACEWAY FOR FUTURE CONNECTION TO CITY OF SPARKS.

GENERAL NOTES

1. FOR LAYOUT OF GATE, EQUIPMENT AND CONDUIT REQUIREMENTS, SEE SHEET E2.1.

REVISION	DESCRIPTION	BY	APP	DATE

ONE INCH AT FULL SCALE:

JOB NO.: 1029
DATE: FEB 2017
SCALE:
DESIGNED: KBM
DRAWN: TLE
CHECKED:

FARR WEST ENGINEERING
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FARRWESTENGINEERING.COM

REGISTERED PROFESSIONAL ENGINEER
PETER C. KRAUCH
No. 018276
Exp. 06/30/17
ELECTRICAL
STATE OF NEVADA
2/23/17

TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
ENLARGED ELECTRICAL SITE PLAN
WASHOE COUNTY NEVADA

DINTER CONSTRUCTION CO.
Airfield Electrical Mechanical
385 Gentry Way
Reno, NV 89502
Ph: 775.826.4044
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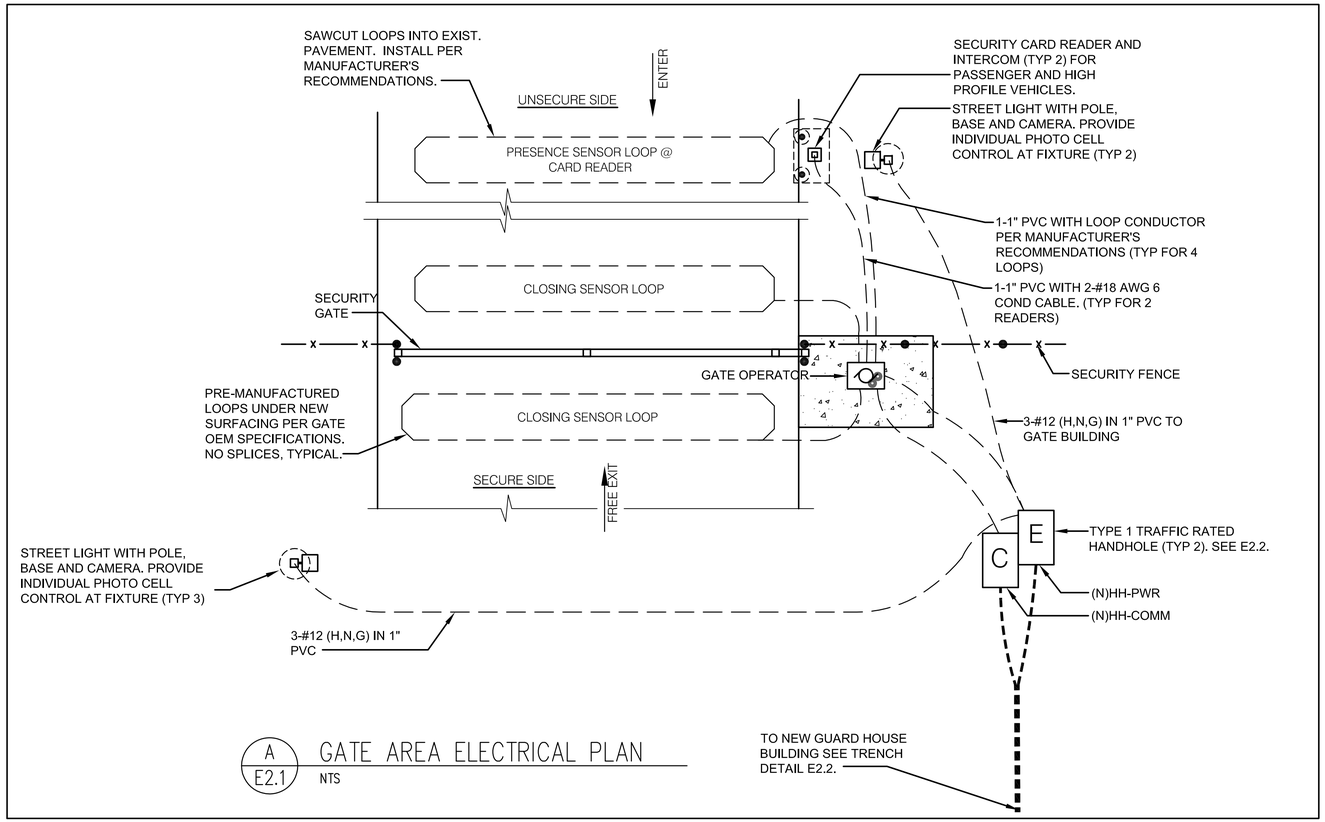
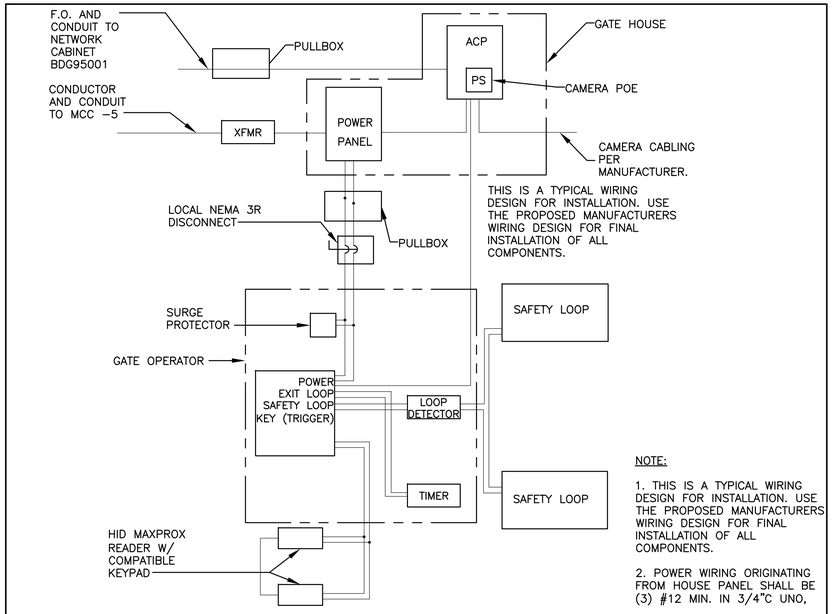
Web: dinter.com
J-4519

SHEET NUMBER
E1.3
14 OF 16

FILE SPEC: J:\4500-4549\4519\E1.2.dwg
PLOT DATE: Feb 22, 2017 - 2:57pm



A E2.1 GATE AREA ELECTRICAL PLAN
NTS



NOTE:

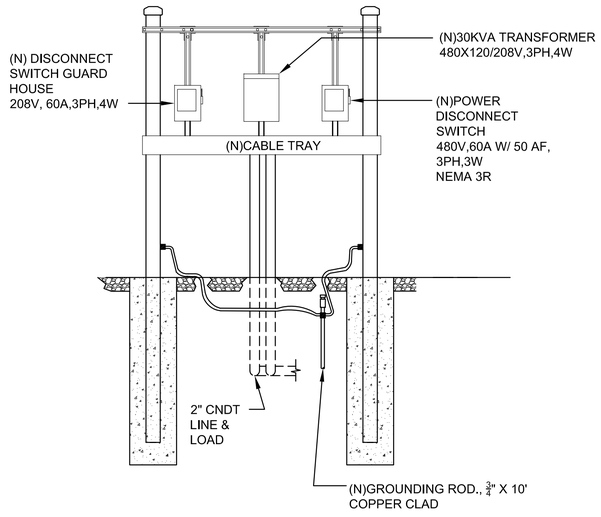
1. THIS IS A TYPICAL WIRING DESIGN FOR INSTALLATION. USE THE PROPOSED MANUFACTURERS WIRING DESIGN FOR FINAL INSTALLATION OF ALL COMPONENTS.

2. POWER WIRING ORIGINATING FROM HOUSE PANEL SHALL BE (3) #12 MIN. IN 3/4"C UNO,

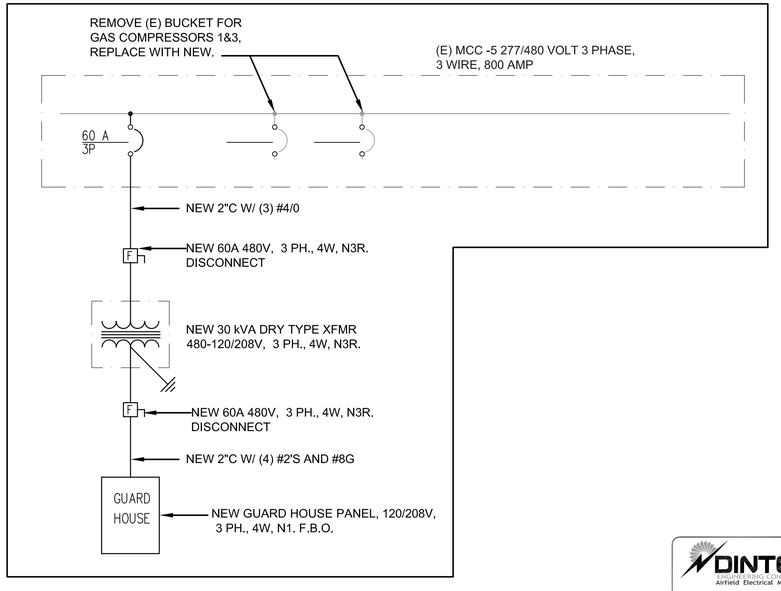
3. PROVIDE 100 LONG RANGE PROXPASS 2 CARDS.

4. PROVIDE ALL REQUIRED PROGRAMMING TO ACESS CONTROL SOFTWARE FOR ALL ADDED DEVICES TO THE SATISFACTION OF THE OWNER.

C E2.1 TYPICAL WIRING DIAGRAM
NTS



B E2.1 GATE HOUSE SERVICE EQUIPMENT
NTS



D E2.1 PARTIAL SINGLE LINE DIAGRAM
NTS

REVISION	DESCRIPTION	BY	APP	DATE

ONE INCH AT FULL SCALE:

JOB NO.: 1029
DATE: FEB 2017
SCALE:
DESIGNED: KBM
DRAWN: TLE
CHECKED:

FARR WEST ENGINEERING
5510 LONGLEY LANE
RENO, NEVADA 89511
PHONE: (775) 851-4788
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FARRWESTENGINEERING.COM

REGISTERED PROFESSIONAL ENGINEER — PETER C. KRAUCH — No. 018276 — NEVADA — EXP 06/30/17 — ELECTRICAL
2/23/17

TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
ELECTRICAL INSTALLATION DETAILS
WASHOE COUNTY NEVADA

DINTER ENGINEERING & CONSTRUCTION
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385 Gentry Way
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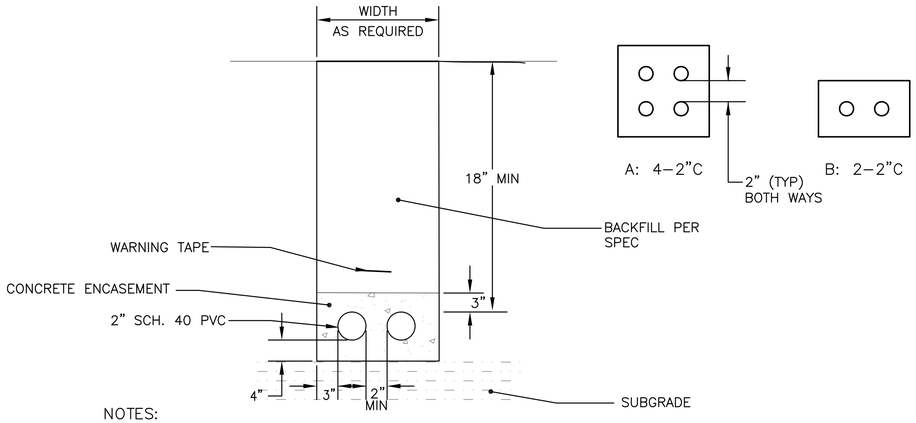
J-4519

SHEET NUMBER
E2.1
15 OF 16

FILE SPEC: L:\4500-4549\4519\E2.1.dwg
PLOT DATE: Mar 03, 2017 - 1:39pm

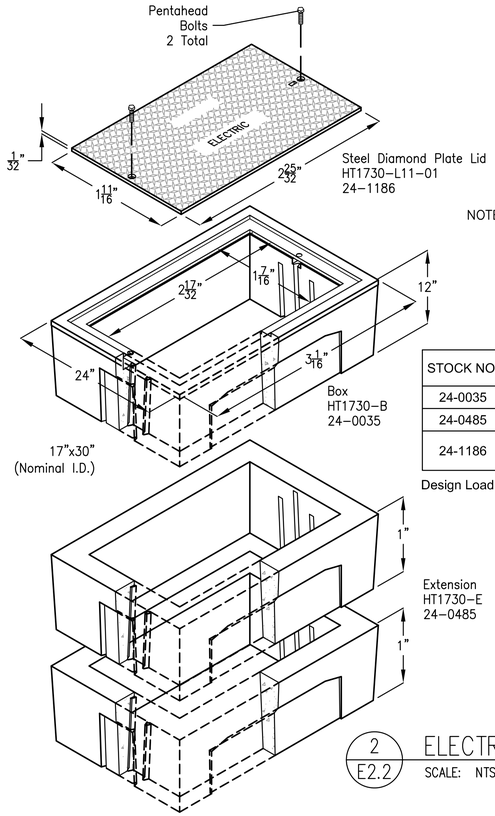


NOTES:

1. SEE PLANS FOR REQUIRED DUCT SECTIONS.
2. PROVIDE PULL WIRES IN ALL (NEW) UNUSED CONDUITS. PLUG ENDS IN HANDHOLES, MANHOLES AND J–BOXES.
3. SEE CIVIL PLANS FOR TRENCH INFILL MATERIALS, SAW CUT AND PATCHING DETAILS.

1 / E2.2 TYPICAL TRENCH SECTION – DIRECT BURY

SCALE: NTS



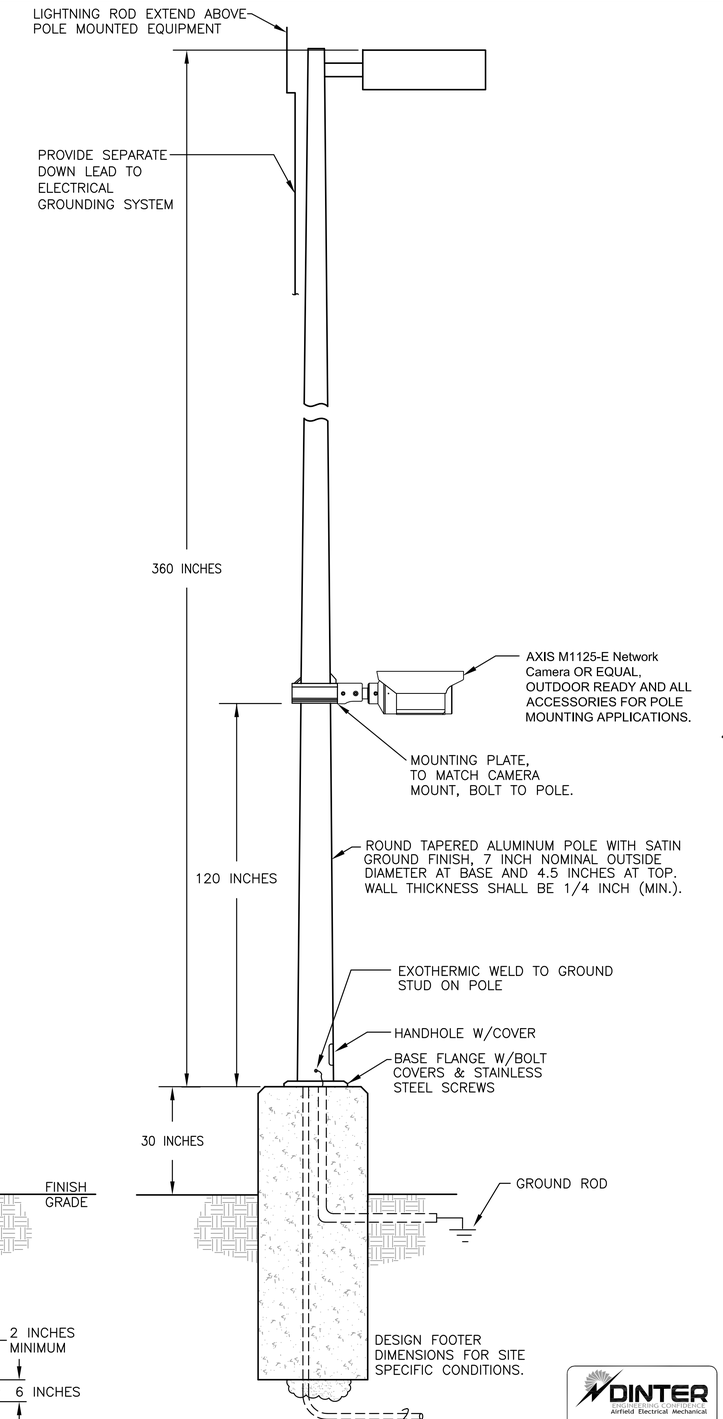
NOTE: PULBOXES INSTALLED A MIN. 5'–0" FROM EDGE OF ROADWAY.

STOCK NO.	MODEL NO.	PRODUCT	DESCRIPTION	APPROX. WEIGHT	QTY PER PALLET
24-0035	HT1730-B	Box	17"x30"x12" Concrete Traffic Handhole Box	290	6
24-0485	HT1730-E	Extension	17"x30"x12" Concrete Extension	288	6
24-1186	HT1730-L11-01	Lid	Steel Diamond Plate Bolt Down Lid (Comes Standard With Pentahead Bolts)	105	

Design Load: Traffic Rated When Installed Per NDOT T-30.1.18.

2 / E2.2 ELECTRICAL PULLBOX

SCALE: NTS



3 / E2.2 LIGHT POLE AND BASE

SCALE: NTS

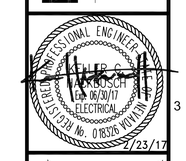
DINTER
ENGINEERING & CONSULTING
Airfield Electrical Mechanical
385 Gentry Way
Reno, NV 89502
Ph: 775.826.4044
Fax: 775.826.4190
Web: dinter.com
J-4519

REVISION	DESCRIPTION	BY	APP	DATE

ONE INCH AT FULL SCALE:

JOB NO.: 1029
DATE: FEB 2017
SCALE:
DESIGNED: KBM
DRAWN: TLE
CHECKED:

FARR WEST ENGINEERING
5510 LONGLEY LANE
RENO, NEVADA 89511
PHONE: (775) 851-4788
FAX: (775) 851-0786
FARRWESTENGINEERING.COM



TRUCKEE MEADOWS WATER RECLAMATION FACILITY
ENTRANCE GATE PROJECT
ELECTRICAL INSTALLATION DETAILS
WASHOE COUNTY NEVADA

SHEET NUMBER
E2.2
16 OF 16

FILE SPEC: J:\4500-4549\4519\E2.1.dwg
PLOT DATE: Feb 23, 2017 - 2:46pm