## OWNER

ROCKHOUND INVESTMENTS LLC 115 KATIE DRIVE SPRING CREEK,NV 89615

PHONE (775) 691-1519

### BASIS OF BEARING

BASIS OF BEARINGS ARE NEVADA STATE PLANE COORDINATE SYSTEM (NAD 83/94, NEVADA WEST ZONE)

### BASIS OF ELEVATION

BASIS OF ELEVATIONS IS NAVD 1988 DATUM

# **SPECIFICATIONS**

ALL PUBLIC WORKS CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION AS ADOPTED BY THE CITY OF FALLON AND THE RECOMMENDATIONS ESTABLISHED BY THE SOILS INVESTIGATION OF THIS SITE AS PREPARED BY WESTEX CONSULTING ENGINEERS ON APRIL 24, 2021.

## LEGEND

AC ACP	ASPHALT CEMENT CONCRETE ASBESTOS CEMENT PIPE	INV	INVERT ELEVATION LENGTH OF CURVE
AGG	AGGREGATE	ĒAT	LATERAL
ASS'Y	ASSEMBLY	LF	LINEAR FOOT
AVE	AVENUE	LT	LEFT
AWWA	AMERICAN WATER WORKS ASSOCIATION	MAX	MAXIMUM
BC	BEGIN CURVE	MED	MEDIAN
BC	BRASS CAP	MFG MG	MANUFACTURER MILLION GALLONS
BCR BFC	BEGIN CURB RETURN BACK FACE OF CURB	MH	MANHOLE
BLDG	BUILDING	MIN	MINIMUM
BLVD	BOULEVARD	MISC	MISCELLANEOUS
BM	BENCH MARK	MJ	MECHANICAL JOINT
BOC	BACK FACE OF CURB	MOC	MIDDLE OF CURVE MIDDLE VERTICAL CURVE
BV	BUTTERFLY VALVE	MVC	NORTH CORVE
BVC	BEGIN VERTICAL CURVE	NDOT	HONT
BW	BACK OF SIDEWALK	NIC	NOT IN CONTRACT
CB	CHORD OF CURVE CATCH BASIN	No	NUMBER
C & G	CURB AND GUTTER	NTS	NOT TO SCALE
CI CI	CAST IRON	OC DD	ON CENTER
CIR	CIRCLE	PAD	OUTSIDE DIAMETER PAD ELEVATION
C/L	CENTER LINE	PAVM'T	PAVEMENT
CLR	CLEAR	PB	POLYBUTYLENE
CMAP CMP	CORRUGATED METAL ARCH PIPE CORRUGATED METAL PIPE	PB	PULL BOX
CO	CLEAN OUT	PC PCC	POINT OF COMPOUND CURVE
CONC	CONCRETE	PCC	PORTLAND CEMENT CONCRETE
CONST	CONSTRUCT	PE	POLYETHYLENE
COR	CORNER	PI	POINT OF INTERSECTION
CP	CONCRETE PIPE	P/L	PROPERTY LINE
CT	COURT	P POLE	POWER POLE
CY Di	CUBIC YARD DROP INLET	PRC	POINT OF REVERSE CURVE
DIA	DIAMETER	PROP PSI	PROPERTY POUNDS PER SQUARE INCH
DR	DRIVE	PT PT	POINT OR POINT OF TANGENCY
DRWY	DRIVEWAY	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	R	RADIUS
Ē	ELECTRIC	RP	RADIUS POINT
E EA	EAST EACH	RÇP	REINFORCED CONCRETE PIPE
EC	END CURVE	RD REF	ROAD REFERENCE
ECR	END CURB RETURN	RT	RIGHT
EG	EXISTING GRADE	R/W	RIGHT OF WAY
EP	EDGE OF PAVEMENT	S	SLOPE
EVC	END VERTICAL CURVE	S	SOUTH
(e)	EACH WAY EXISTING	SD	STORM DRAIN
FCA	FLANGED COUPLING ADAPTER	SDR	STANDARD DIMENSION RATIO
FES	FLARED END SECTION	SHT SQ	SQUARE
FF	FINISH FLOOR	SS	SANITARY SEWER
FFC	FRONT FACE OF CURB	ST	STREET
FG	FINISH GRADE	STA	STATION
FH FL	FIRE HYDRANT FLOW LINE	STD	STANDARD
FLG	FLANGE	<u>T</u>	TANGENT OF CURVE
FM	FORCE MAIN	TBM TC	TEMPORARY BENCH MARK TOP OF CURB
FND	FOUND	TEL	TELEPHONE
FOC	FRONT FACE OF CURB	TV	TELEVISION
FS	FINISHED SURFACE	TYP	TYP
FT	FOOT	UON	UNLESS OTHERWISE NOTED
FV G	FLUSH VALVE GAS	VC	VERTICAL CURVE
GA	GAUGE	VERT VG	VERTICAL VALLEY GUTTER
GB	GRADE BREAK	W	WATER
GF	GARAGE FLOOR	WTR	WATER
GR	GRADE	w	WEST
GRND	GROUND	W/	WITH
GV HORIZ	GATE VALVE HORIZONTAL	WM	WATER METER
HURIZ	HIGHWAY	W/0	WITHOUT
ID	INSIDE DIAMETER	WWF WWM	WELDED WIRE FABRIC WELDED WIRE MESH
IN	INCH	11110	METRED MILE MESH
INT	INTERSECTION		

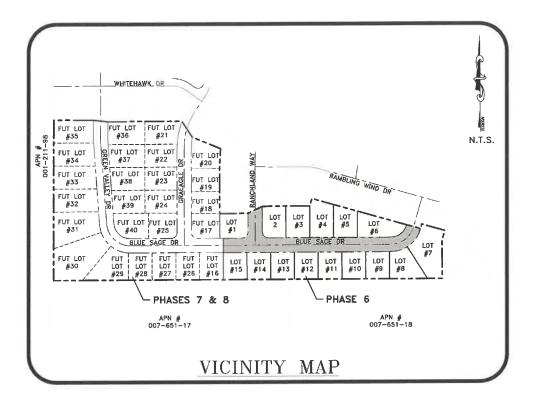
# CIVIL IMPROVEMENT PLANS

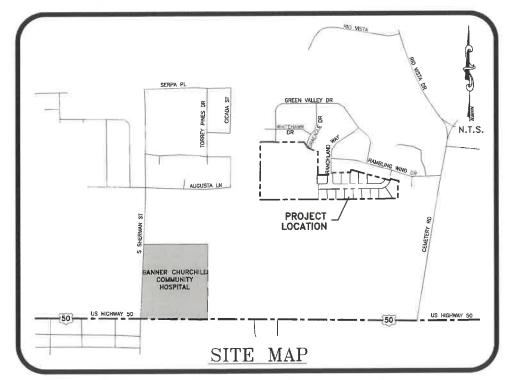
### FOR

# COUNTRY AIR ESTATES PHASE 6

CHURCHILL COUNTY **FALLON** 

NEVADA





### **ENGINEER**



# PROJECT SUMMARY

CITY OF FALLON CHURCHILL 001-061-29 JURISDICTION: COUNTY: ZONING: R15K

FEMA FLOOD ZONE: UNSHADED ZONE X ACREAGE: Phase 6 is 5.69 Ac of the 16.48 Ac Parcel

### SHEET INDEX

	ET TIVE EX
C-1	TITLE SHEET
C-2	SITE PLAN
G-1	GRADING PLAN
G-2	GRADING PLAN
U-1	UTILITY PLAN
U-2	UTILITY PLAN
P-1	PLAN & PROFILE SHEET
P-2	PLAN & PROFILE SHEET
D-1	DETAIL SHEET
D-2	DETAIL SHEET
D-3	DETAIL SHEET
D-4	DETAIL SHEET
D-5	DETAIL SHEET
D-6	DETAIL SHEET
D-7	DETAIL SHEET

# ENGINEER'S STATEMENT

THESE PLANS (SHEETS C-1 THROUGH D-7) HAVE BEEN PREPARED IN ACCORDANCE WITH ACCEPTED ENGINEERING PROCEDURES AND GUIDELINES, AND ARE IN SUBSTANTIAL COMPLIANCE WITH APPLICABLE STATUTES, CITY ORDINANCES AND CODES. IN THE EVENT OF CONFLICT BETWEEN ANY PORTION OF THESE PLANS AND CITY CODES, THE CITY CODES SHALL PREVAIL.



P.E. #15733



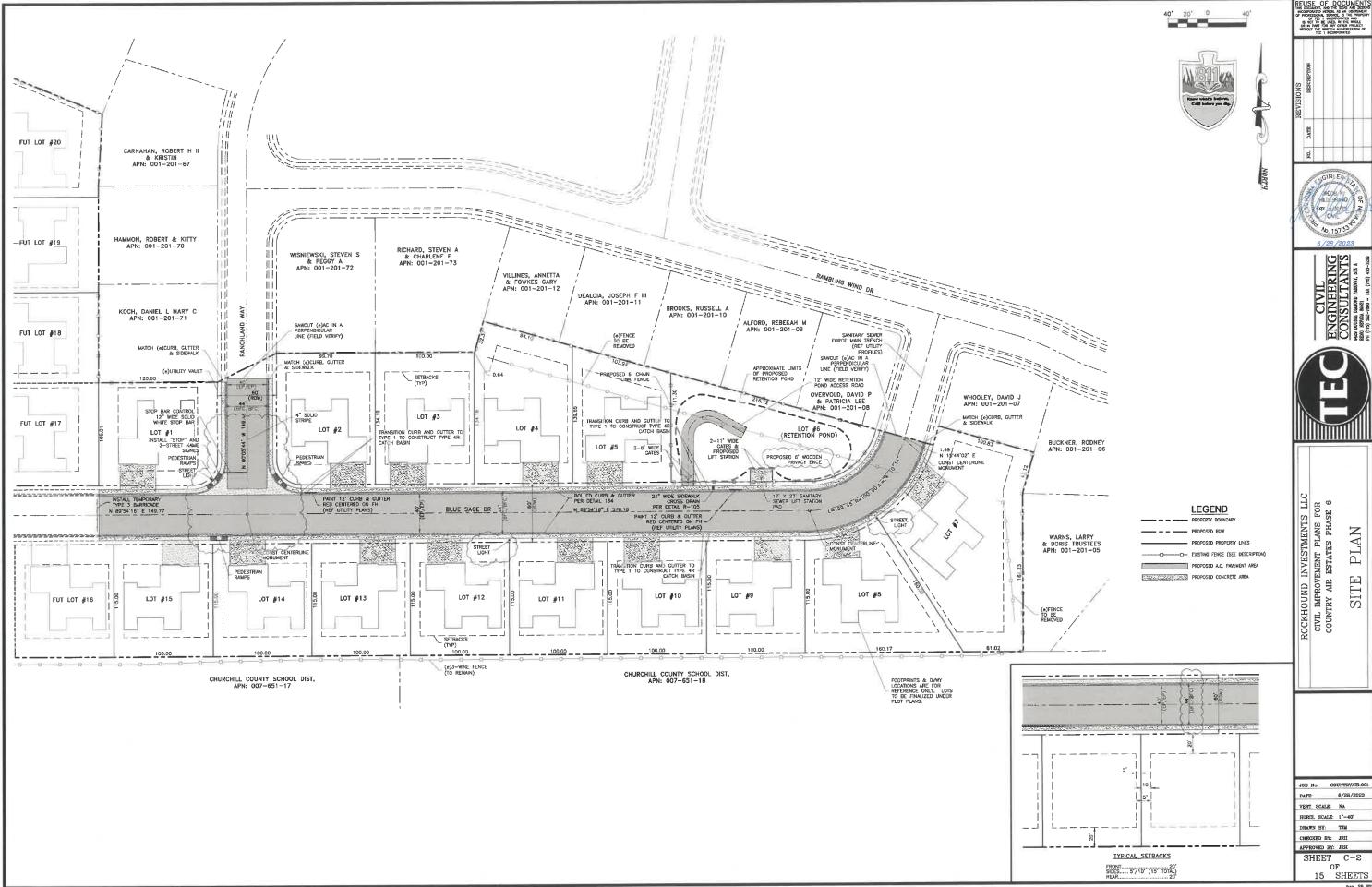


SHEET TITLE

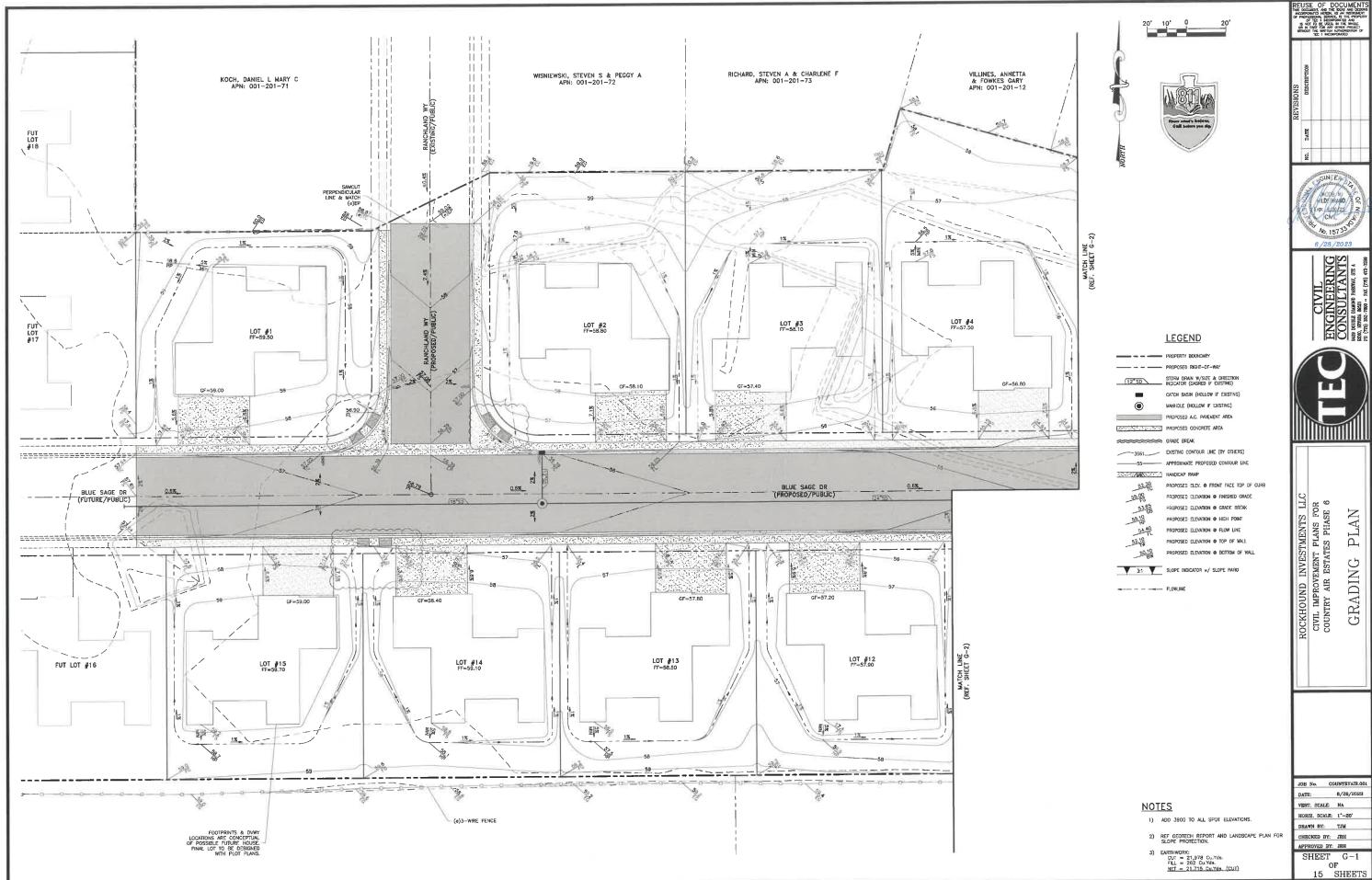
JOB No. COUNTRYAIR.001 VERT. SCALE: NA HORIZ. SCALE: 1"-20' DRAWN BY: TJM CHECKED BY: JRH

APPROVED BY: JRH SHEET C-1

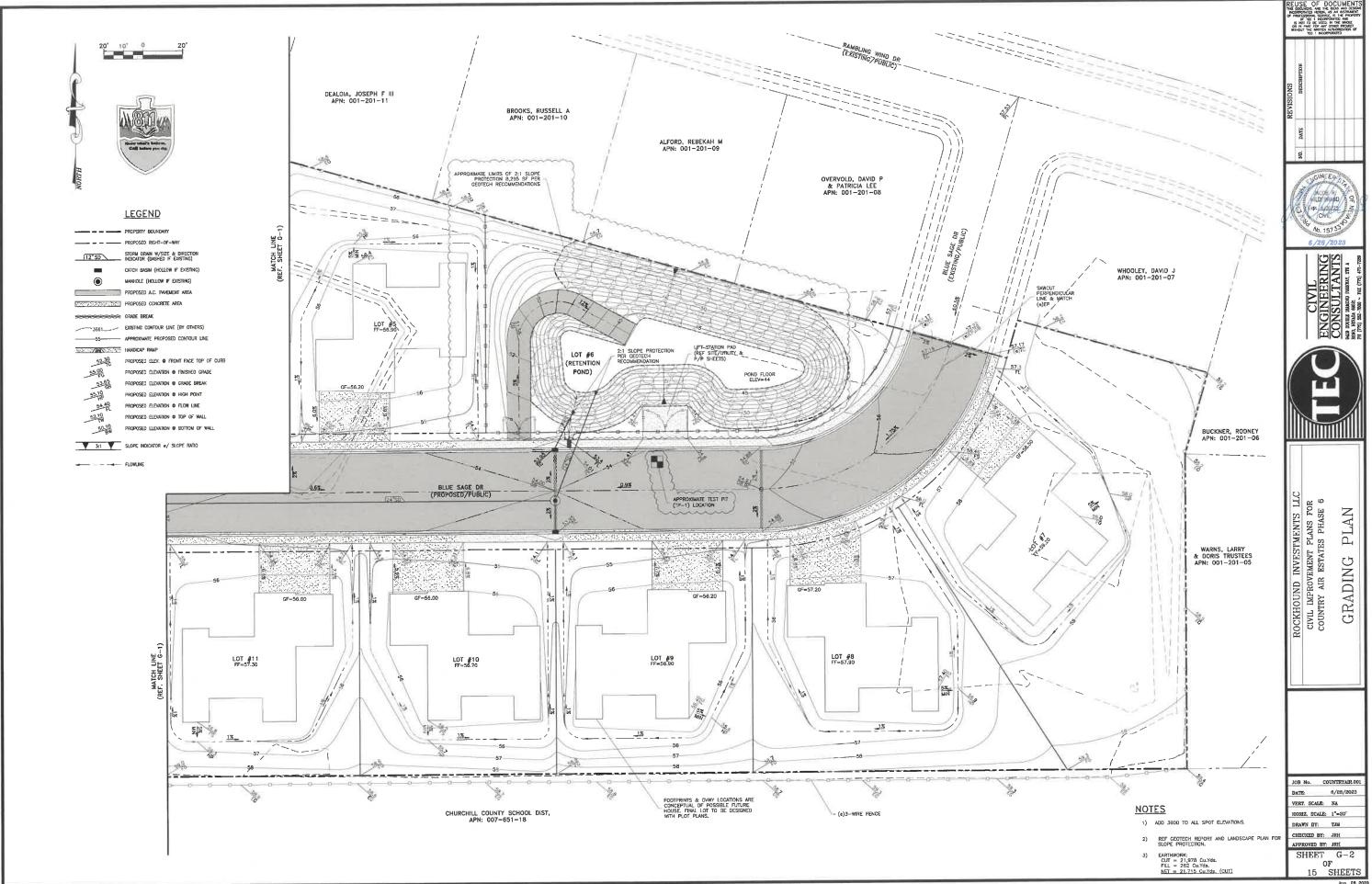
15 SHEETS

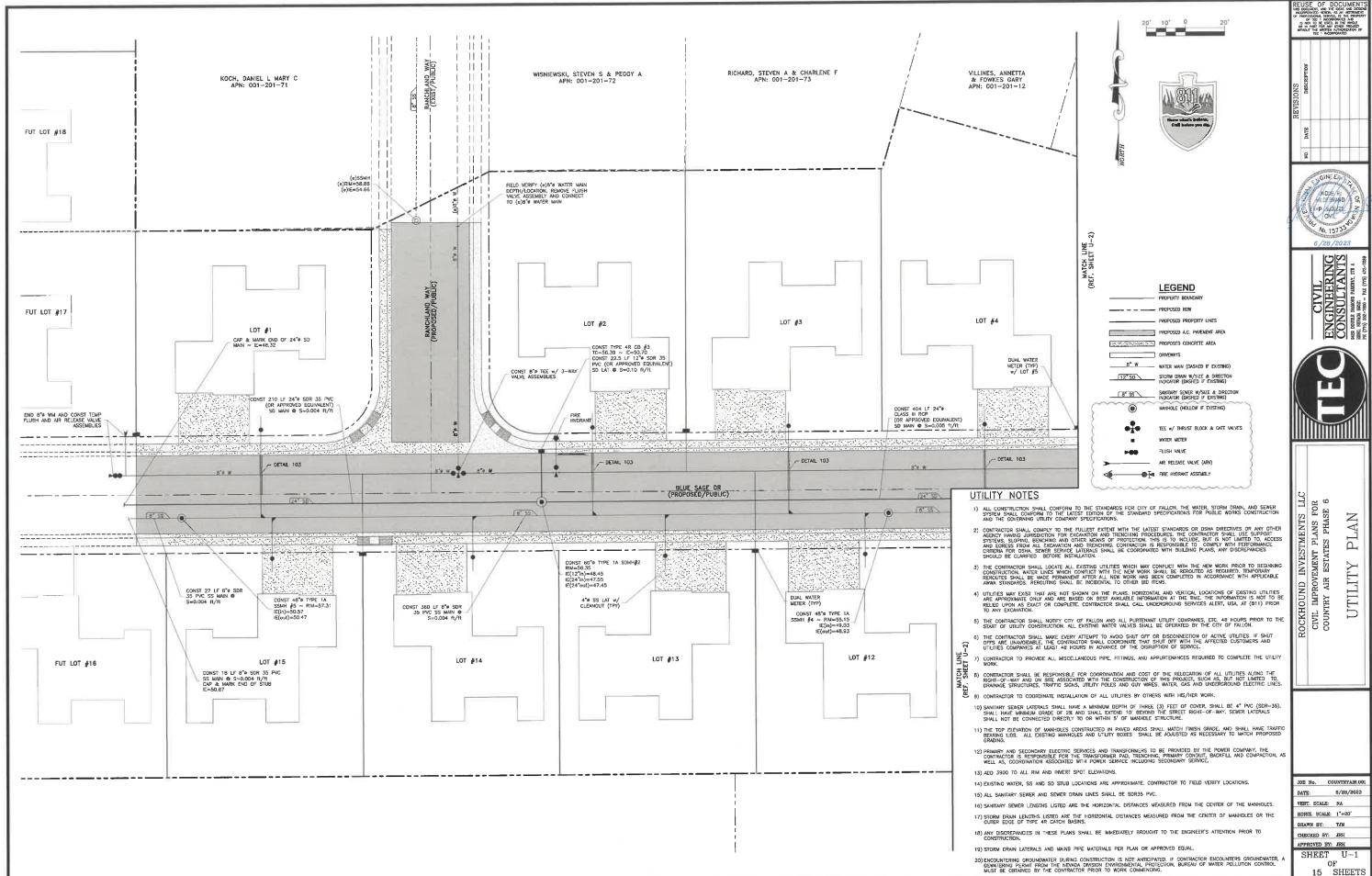


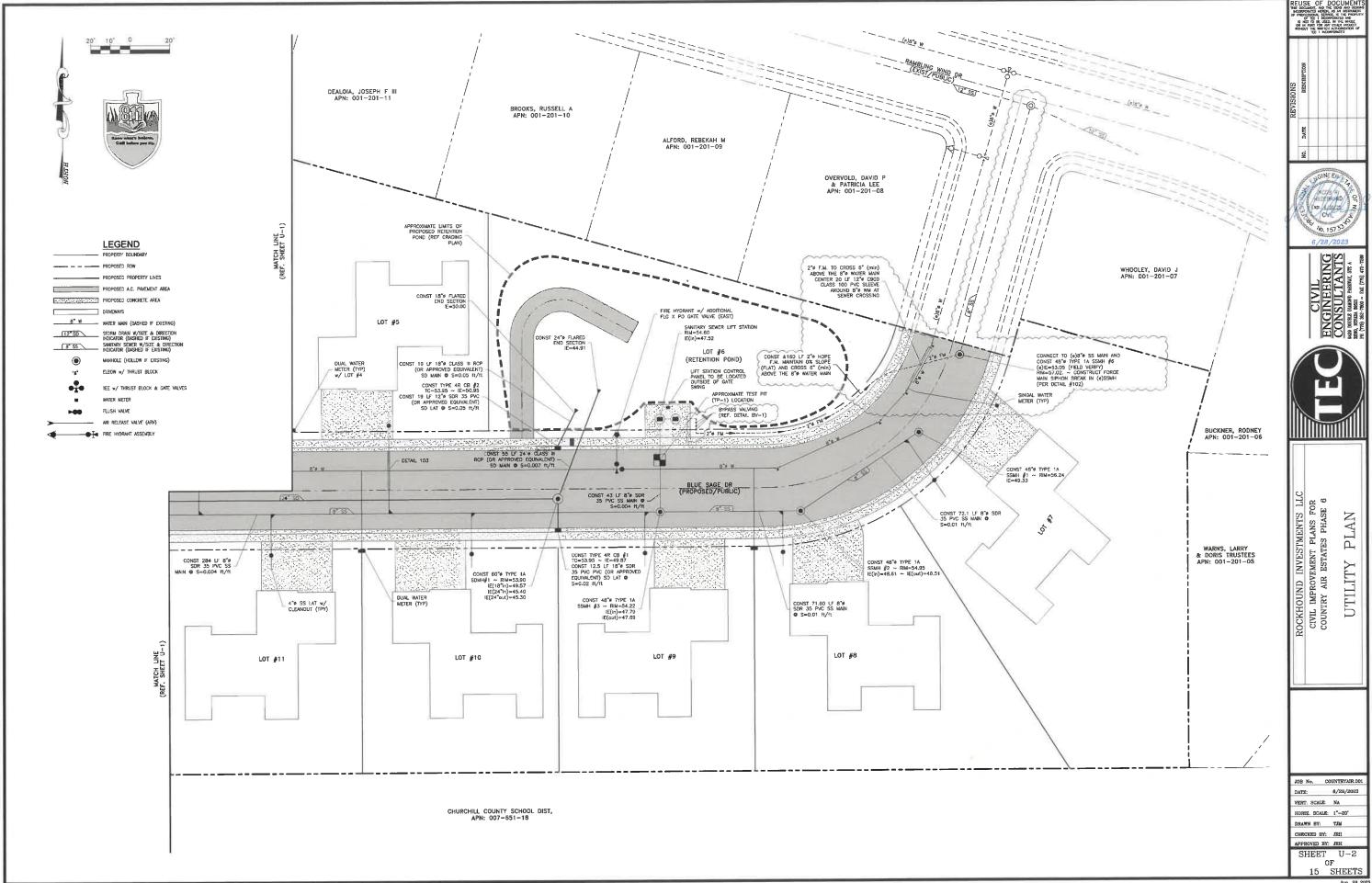
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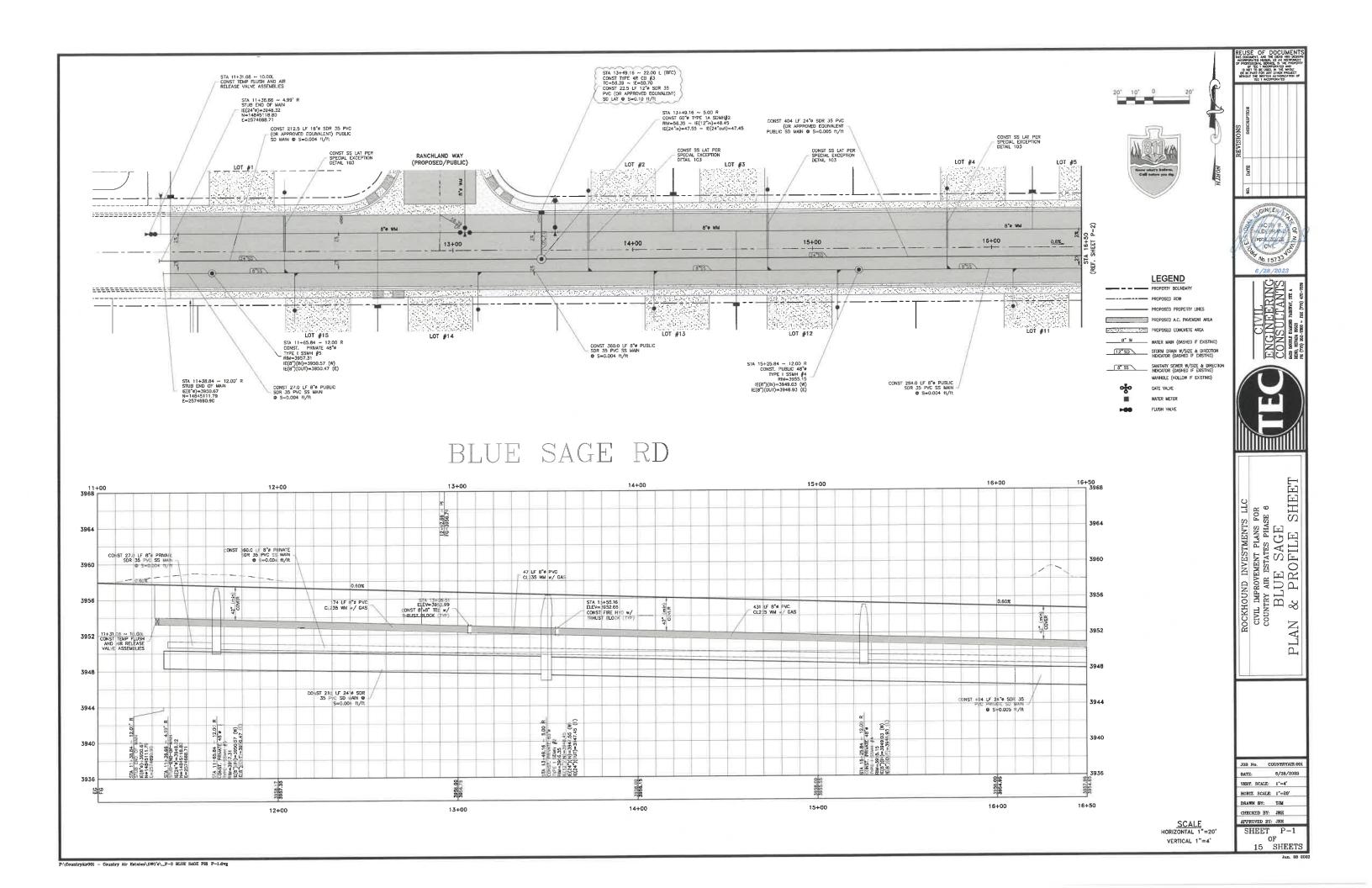


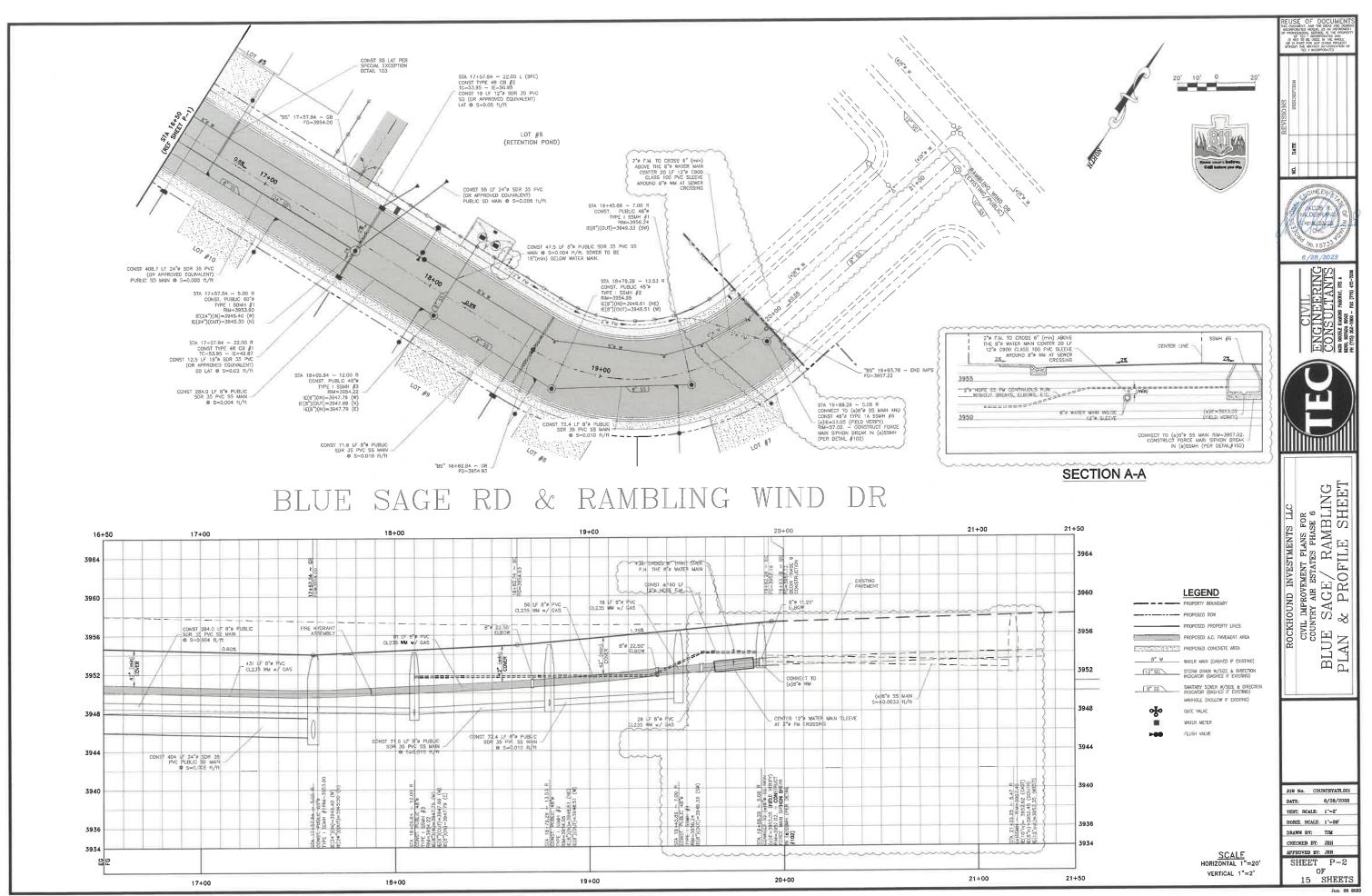
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#### SENERAL NOTE FOR ALL DETAILS

ALL MATERIALS FURNISHED AND WORK PERFORMED SHALL BE DONE IN ACCORDANCE WITH THE MOST CURRENT FORTION OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC OR ORANGE BOOK).

#### SENERAL NOTES FOR WATER SERVICE

- . THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF OSHA AND CHAPTER 613 OF MRS. IN THE CONSTITUCTION PRACTICES FOR ALL EMPLOYEES DIRECTLY, EMAGGED IN THE COMPLETION OF THIS PROJECT.
- . THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS AT THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK ACCORDING TO GENERALLY ACCOPTED CONSTRUCTION PRACTICES.
- ALL UNDERGROUND VALVES LARGER THAN 2", TEES, ETC., SHALL BE COATED IN MASTIC OR WRAPPED IN PLASTIC AND CONNECTIONS MUST BE MI WITH MEGA LUGS.
- NOTIFY CITY OF FALLON 48 HOURS PRIOR TO THE START OF CONSTRUCTION
- S. FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH & 25 DAYS: MIN 15 SACKS OF CEMENT FOR YOUR CYAPD WITH A MAX. WATERICEMENT RATIO OF 0.45; ARE ENTRAINMENT ON 8 1.5%. SILVER AT IT OF A INCHES: SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURERS RECOMMENDATIONS. POLYMORPHLENE FIRERS SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURERS RECOMMENDATIONS.

- . BACKFLOW PREVENTION IS REQUIRED PER DETAILS #31 THRU#40. RESIDENTIAL SUBDIVISIONS DO NOT TYPICALLY REQUIRE DETAILS #31 THRU#40. CITY OF FALLON WILL NOTIFY WHEN THESE SHEETS ARE REQUIRED.
- , CONTRACTORS SHALL COMPLY WITH HOST EMPLOYER (CITY OF FALLON) SAFETY PROGRAM
- B. CONTRACTOR IS RESPONSIBLE FOR REVIEWING HOST EMPLOYER'S SAFETY PROGRAM, CONTRACTOR AT PRE-BID SHALL FURNISH CITY OF FALLON SAFETY RECORDS FROM THE LAST THREE YEAR PERIOD AND A COPY OF ITS OWN COMPANY SAFETY PROGRAM.
- 10, ALL VALVE BOXES, MANHOLE STRUCTURES, AND CLEANOUTS SHALL BE MARKED AND ACCESSIBLE AT ALL TIMES. 11.FOR DETAILS NOT SHOWN, CONTACT CITY OF FALLON @ 775-423-5107, FAX 775-423-8874.
- 12. THE OWNER IS RESPONSIBLE FOR FURNISHING QUALIFIED SITE INSPECTIONS DURING CONSTRUCTION OF PUBLIC IMPROVEMENTS.
- 3.CITY OF FALLON SHALL APPROVE OF THE INSPECTOR & TESTING FIRM PRIOR TO CONSTRUCTION.
- 14, THE INSPECTOR SHALL INVENTORY ALL CONSTRUCTION MATERIALS TO ENSURE QUALITY CONTROL, REJECTION OF DEFECTIVE MATERIALS MUST BE COORDINATED WITH CITY OF FALLON.
- 15, PERFORM PLASTIC PIPE BALL AND MANDREL TESTS ON NEWLY INSTALLED SEWER PIPE IN ACCORDANCE WITH SECTION 394 M 09 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 6.PERFORM AIR PRESSURE TESTING ON NEWLY INSTALLED SEWER PIPE IN ACCORDANCE WITH SECTION 338,03.07.04 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
- 17, ALL NEW PUBLIC WATER MAINS SHALL BE 8" OR LARGER.
- 18.CONTRACTOR IS RESPONSIBLE TO MAKE FIELD MEASUREMENTS TO LOCATE AND SIZE EXISTING FACILITIES OR UNDERGROUND UTILITIES.

- PALACE CALORINE TABLETS IN WATER LINES AS FOLLOWS:

  3 TABLETS PER & DAMBETER OF LINE:

  4 TABLETS PER & DAMBETER LINESTH OF LINE:

  5 TABLETS PER IT D'ADMETER LENGTH OF LINE:

  5 TABLETS PER IT D'ADMETER LENGTH OF LINE:

  6 TABLETS PER IT D'ADMETER LENGTH OF LINE:

  TABLETS PER IT D'ADMETER LENGTH OF LINE:

  TABLETS BUST BE GLUED AT EQUALLY SPACED INTERVALS TO INSIDE OF PIPE USING APPROVED ADMESIVE.

  DISINIPECTION SHALL INEET AWAN \$TANDARD COST.
- CONTRACTOR SHALL SUBMIT CUT SHEETS & SHOP DRAWINGS FOR REVIEW TO THE PROJECT ENGINEER. AND/OR THE UTILITY ENGINEER PRIOR TO GROERING CONSTRUCTION MATERIALS. A SIGNED SET OF DRAWINGS MUST ALWAYS BE AVAILABLE ONIST DURING CONSTRUCTION.
- 21. THE CITY OF FALLON REQUIRES A BOND TO BE IN PLACE PRIOR TO THE START OF CONSTRUCTION.

### **GENERAL NOTES**

GEN NOTES

### GENERAL NOTES FOR ROADWAY GEOMETRICS

- THE ENGINEER SHALL SUBMIT A TRAFFIC REPORT AND PAVEMENT SECTION DESIGN WITH THE IMPROVEMENT PLANS, UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
- THE ENGINEER OF RECORD SHALL SUBMIT THE PAVEMENT MIX DESIGN TWO (2) WEEKS PRIOR TO PAVING TO THE CITY OF FALLON PUBLIC WORKS DEPARTMENT FOR REVIEW.
- CITY OF FALLON PUBLIC WORKS DEPARTMENT FOR REVIEW.

  DESIGN OF THE STRUCTURAL SECTION FOR ASPHALT CONCRETE PAVEMENT FOR BOTH PUBLIC AND PRIVATE STREETS SHALL CONFORM TO THE PROCEDURES AS SET FORTH IN THE CURRENT ASPHALT INSTITUTE MANUAL SERIES NO. 1 (MEL) OR AMERICAN ASSICIATION OF STATE HORMAY AND TRANSPORTATION OFFICUALS (ASSHTO) DESIGN GUIDE, ANSEO ON SIGNORIAN STATE HORMAY AND TRANSPORTATION OFFICUALS (ASSHTO) DESIGN GUIDE, ANSEO ON SIGNORIAN STATE HORMAY AND TRANSPORTATION OFFICUALS (ASSHTO) DESIGN GUIDE, ANSEO ON SIGNORIAN STATE HORMAY AND TRANSPORTATION OF STATE AND TRANSPORTAT

- PAVEMENT STRIPING SHALL BE NDOT TYPE II WATERBORNE PAINT WITH A MINIMUM FILM THECKNESS OF 25 MILE APPLIED IN TWO COATS. DROP ON GLASS BEADS SHALL BE APPLIED ON SECOND COAT. SEE SECTION 632 OF THE CURRENT STANDARDS SPEGAF
- PAYEMENT SYMBOL MARKINGS, YIELD LINES, AND STOP BARS SHALL BE REFLECTIVE THERMOPLASTIC MATERIAL MEETING THE CURRENT SPECIFICATIONS FROM SECTION 634 OF THE SILVER BOOK.
- THE DESIGN AND INSTALLATION OF TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, PUBLISHED BY THE FEDERAL HIGHWAY ADMINISTRATION.

### RENCHING AND PATCHING

THE DESIGN AND INSTALLATION OF TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MANUAL ON LINEPORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION, PUBLISHED BY THE FEDERAL HIGHWAY

### **GENERAL NOTES**

GEN NOTES

#### WATER MAIN PRESSURE & RACTERIA TESTING

- CONTRACTOR SHALL MAINTAIN TEST PRESSURE WITHIN 5 PSI FOR A PERIOD OF 2 HOURS. TEST PRESSURE SHALL BE 150 AND 200 PSI, PER PRESSURE ZONE, AS INDICATED ON PLANS.
- ALLOWABLE LEAKAGE SHALL BE DETERMINED BY THE FOLLOWING:
- ALLOWABLE LEAKAGE (GALLONS PER HOUR) = 17
- WHERE S = LENGTH OF PIPE IN TEST SECTION (FEET)
  D = PIPE DIAMETER (INCHES)
  P = TEST PRESSURE (PSIG)
- LEAKAGE SHALL BE MEASURED BY THE VOLUME OF WATER REQUIRED TO MAINTAIN THE TEST PRESSURE WITHIN 5 PS FOR THE TEST PERIOD, NOT THE DROP IN PRESSURE.
- INSPECTOR IS RESPONSIBLE FOR OBTAINING AND DELIVERING TESTING LAB SAMPLE BOTTLES AND COLLECTING SAMPLES FOR BACTERIA TESTING. INSPECTOR SHALL PRESENT TEST RESULTS TO THE UTILITY.

#### REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY (RP):

- I ABLE A

  A MAN ID

  A CRAIN SHALL BE INSTALLED IN THE BOX FOR OUTDOOR INSTALLATIONS AND A

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  BY A STALL BY

#### DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY (DC):

BELOW GROUND VAULTS SHALL REMAIN DRY THROUGHOUT THE YEAR.

#### PRESSURE VACUUM BREAKER (PVB) SPILL RESISTANT PRESSURE VACUUM BREAKER (SVB) BACKFLOW PREVENTION ASSEMBLY:

THE PVB SHALL NOT BE SUBJECT TO ANY BACK PRESSURE FROM: ELEVATED DOWNSTREAM FIPING, INJECTION SYSTEMS, COMPRESSED AIR, PUMPS, OR OTHER MEANS, IF BACK PRESSURE EXISTS, AN RP MUST BE INSTALLED.

#### DC, RP, AND PVB/SVB ASSEMBLIES:

- 1. SUPPORTS SHALL BE PROVIDED AS NECESSARY.
  2. ELECTRIC SUPPLY SOCKETS SHALL BE AWAY FROM RELIEF VALVE & TESTCOCK.
  3. FREEZE PROOF INSULATED BOX AND 1 TYPE OF HEAT ARE REQUIRED, 2 TYPES ARE STRONGLY RECOMMENDED.
  4. PLACE WAIR PETRICH, TRUBILES SEALANT AT PIPE PRENTENTINGS.
  5. INSULATED BOX SHALL ETHER SWING ALERS OF ASSEMBLY OR BE SIZED TO PROVIDE CLEARANCES SHOWN IN THE SPRINGLY THEFT. IN THE STREET OF THE STREET STREET.
- DETAILS.
  SPRING LOADED LID IS REQUIRED ON LARGE BOXES,
  SPRING LOADED LID IS REQUIRED ON LARGE BOXES,
  EITHER VALVE BOXES OR PIPE RISSES MAY BE USED FOR THE SHUT OFF VALVES.
  EITHER VALVE BOXES OR PIPE RISSES MAY BE USED FOR THE SAME AS SERVICE LINE.
  DRAIN CONFIGURATION SHALL BE ANN BLIKE TEE TO BRASS SHUTOFF VALVE WITH A RUBBER SEAT & SCHEDULE 80
  12° SOY ELBOW WITH FEBALE THEADLS. AD DIE'RED PRESEZ KING DRAIN.
  0.USE 2 FLAL TIRRIS OF FEFLON TAPE ON ALL THREADED JOINTS.
  1.00 STOY AND WASTEY VALVES.
  2. ADERLATE CLEARANCE MAIST BE PROVIDED FOR OPERATION OF VALVES AND REPAIR AND TESTING OF THE

- ASSEMBLIES.

  NO OUTLET, TEE, OR AN CONNECTION MAY BE MADE TO THE SERVICE LINE BETWEEN THE METER AND THE ASSEMBLY.
- ADJUSTABLES MUST BE INSTALLED IN THE HORIZONTAL ORIENTATION UNLESS USC APPROVED IN A DIFFERENT SRIFNITATION.
- ORIENTATION.
  S. ASSEMBLIES MUST BE INSTALLED AS CLOSELY AS PRACTICAL TO THE WATER METER.
  8.CITY OF FALLON RECOMMENDS PROTECTING THE ASSEMBLIES FROM VANDALISM IN SUSCEPTIBLE AREAS.
  RECOURSED CLEARNACES MUST STILLE BURET AND UTILITY ACCESS MUST BE PROVIDED.
  7. ASSEMBLIES LESS THAY RECOURSE TO LIFT OF CLEAR OR GRAVEL AND ASSEMBLIES GREATER THAN OR EQUAL TO 2"
  RECOURSE OLD FOR CLEAR ORACILE FOR ALL DRAMS.

### **GENERAL NOTES**

### GENERAL NOTES FOR CONCRETE WORK

- NO CONCRETE SHALL BE PLACED UNTIL FORMS AND SUBGRADE ARE INSPECTED BY THE CITY EXCAVATION PERMIT INSPECTOR OR APPLICABLE ENGINEER OF RECORD

- COMMERCIAL DRIVEWAYS SHALL HAVE 14 BARS AT 18" ON-CENTER LONGITUDINAL AND TRANSVERSE EXTENDING INTO GUTTER PAN AND DRIVEWAY WINGS, MINIMUM 2" CONCRETE COVER FOR ALL REINFORCING BARS.
- IF EXPANSION JOINT EXISTS WITHIN 4 FEET OF DRIVEWAY, REMOVE SIDEWALK AND CURB AND GUTTER TO THAT
- CONCRETE REMOVAL SHALL BE TO NEAT SAWCUT LINES

**GENERAL NOTES** 

REMOVE CONCRETE WHEN CONSTRUCTING DRIVEWAY WHERE CURB AND GUTTER EXIST DEPRESSED CURB LENGTH TO MATCH DRIVEWAY WIDTH

- WEAKENED PLAIN JOINTS AT 5-0" (J.C. WITH EXPANSION JOINT IF NECESSARY

- FIBER-REINFORCED PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS; 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS. MIN. S SACKS OF CEMENT FOR LOUE CYARD WITH A MAX. WATER/CEMENT RATIO OF 0.45. AIR ENTRANMENT 6% ± 1.5%. SLUMP AT 1 TO 44 MIX-4E. ALL MATERIALS SHALL CONFORM TO SSPAC SECTION 202. POLYPROPHLEM FREERS SHALL BE ADDED TO THE P.C.C. PER THE MANUFACTURERS RECOMMENDATIONS.

## FOR A DOUBLE METER USE A MUELLER PIT MODEL 250CD1836FBAS00006, MUELLER INSULATION PAD 780022 & MUELLER LID MODEL 780111 5. DOUBLE METER SET SHALL HAVE 1" SERVICE 6. SERVICE LINE - SIZE AS DIRECTED BY CITY OF FALLON ()" - 1") WITH COUPLING ADAPTOR

AIR GAP SEPARATION

THE TAIN AND PLAP SHALL BE DESIGNED TO SUIT CUSTOMBERS NEEDS.
AN AIR GAP (THE DIXACE BETTMEEN THE LOWEST FORM TO OF THE SUPPLY LINE ANDOVERFLOW ELEVATION OF THE SUPPLY LINE ANDOVERFLOW ELEVATION OF THE SUPPLY LINE, WITH A MINIMUM JAP GA.

OF 1".

FREEZE PROTECTION SHALL BE PROVIDED FOR THE SUPPLY PIPE AND THE RECEIVING TANK WHERE NECESSAR.

THE WATER METER SHALL SE LOCATED UNSTREAM OF THE AIR GAP.

AIR GAP SPRASSES MASTE BE AIRWORDED BY THE VITLITY.

AIR GAP EYPASSES MUST BE AUTHORIZED BY THE UTILITY.

TYPICAL LOCATIONS WHERE RP ASSEMBLES ARE REQUIRED.

THE STATE ACCORDING TO MIC 4464 57195, CITY OF PALLON MAY REQUIRE AN RP FOR APPLICATIONS NOT LISTED (FIGURE 1) TO MIC 4464 57195, CITY OF PALLON MAY REQUIRE AN RP FOR APPLICATIONS NOT LISTED (FIGURE 1) TO MICHAEL HOST AND A SECRET AN

TYPICAL LOCATIONS WHERE DC OR PYBISYB ASSEMBLES OR AIR GAPS ARE REQUIRED
(THIS LIST IS ACCORDING TO MAG 440A 6718; CITY OF FALLON MAY REQUIRE B DC, PYBISYB OR AG FOR APPLICATIONS
NOT USTED PERSON
SYSTEMS, A SITE WITH AN AUXILIARY WATER SUPPLY, AND A SITE WITH TWO METERS. A PYBISYB IS REQUIRED
FOR RIPGATION SYSTEMS WITH NOT MARS OR CHEMICAL DUESTOR SYSTEMS, AN AIR GAP IS REQUIRED FOR RIPGATION SYSTEMS, SEWAGE COLLECTION, DISTRIBUTION, OR TREATMENT SYSTEMS, AND FILL
LOCATIONS FOR PROTRIBLE SPREYAYING OR CLEARNAS EQUIRMENT.

ALL BACKFLOW PREVENTION ASSEMBLIES MUST BE INSPECTED BY A UTILITY REPRESENTATIVE AND A TEST FORM (COMPLETED BY A HEALTH DISTRICT CERTIFIED TESTERS MUST BE SUBMITTED TO CITY OF FALLON BEFORE

ALL SEARCH STATE THAT ASSISTANCE CENTIFIED TESTER/MAST BE SUBMITTED TO CITY OF FALLON BEFORE CENTAGE BY ACTION THE STATE OF THE ASSEMBLY INTELLIGENCE STATE OF THE ASSEMBLY INSTALLATION ANNINERSARY DESCRIPTION TO CITY OF FALLON MAY THEST THE ASSEMBLY SHOTLAND AND ANNINERSARY DESCRIPTION THE STATE OF THE ASSEMBLY SHOTLAND AND ANNINERSARY DESCRIPTION AND THE ASSEMBLY SHOTLAND AND ANNINERSARY DESCRIPTION AND THE ASSEMBLY SHOTLAND AND AND AND ASSEMBLY BY ASSEMBLY SHOTLAND AND AND ASSEMBLY SHOTLAND AND AND ASSEMBLY BY ASSEMBLY SHOTLAND AND ASSEMBLY BY ASSEMBLY SHOTLAND AND ASSEMBLY BY ASSEMBLY SHOTLAND AND AND ASSEMBLY SHOTLAND AND ASSE

WATER METER SUPPLIED BY

DUAL ANGLE

36° MIN.

TO OFF

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BACKFLOW PREVENTION SHALL NOT BE RELICCATED, REMOVED, OR REPLACED WITHOUT PRIOR CITY OF FALLON.
 PLEASE NOTE THAT THE REQUIRED ASSEMBLIES PROTECT THE PUBLIC WATER SYSTEM ONLY.
 ENGINEER TO PROVIDE DOCUMENTATION THAT THE ASSEMBLIES ARE USC APPROVED.

LOCKWING FULL PORT
BALL VALVE

BRASS MIP INLET & UTLET CONNECTIONS

WATER NETER PIT ASSEMINY BY MUELER CO. OR APPROVED FOUND.
FOR A PSINGLE METER USE A NUELLER PIT MODEL 2005/SSAFFMAN, NUELLER INSULATION PAD 199022 & NUELLER ILD MODEL
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**GENERAL NOTES** 

第十二

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# 3/4"- 1" WATER METER

### GENERAL NOTES FOR SAMITARY SEWER

- SEWER LINE CLEANING SHALL SE PERFORMED WITH HYDRAUJICALLY PROPELLED, HIGH-VELOCITY JET, MECHANICALLY PROVERED EQUIPMENT, OR OTHER PUBLIC WORKS APPROVED DEVICES, THE CLEANING SHALL RESTORE THE SEWER LINES TO ANNIMAM OF 95% OF THE LINES ORIGINAL CARRYING CAPACITY, FINAL ACCEPTANCE SHALL BE MADE AFTER SUCCESSFUL INSPECTION TO THE PUBLIC WORKS INSPECTORS SATISFACTION THAT THE CONDITIONS ABOVE HAVE BEEN MET.
- SEWER GRADES SHALL BE VERIFIED AT EACH MANHOLE, INSPECTOR SHALL VERIFY PROPER OPERATION OF LEVELING EQUIPMENT AND PROCEDURE.
- ALL NEW PUBLIC COLLECTOR SEWERS SHALL BE 8 INCHES OR LARGER.

#### GENERAL NOTES FOR E-ONE SEWER

- MINIMUM BURY DEPTH IS 30 INCHES. ALL LOW PRESSURE FORCE MAIN PIPING SHALL BE SDR 21 PVC FOR 2" AND 3" MAINS AND C800 PVC FOR 4" AND
- ALL LOW PRESSURE PURCE MAINTER BY A STATE HEAD TO SELECT A STATE AND A STALL ALRAPE LASE VALVES AT SYSTEM HIGH POINTS OR EVERY 2000 FT OF PIPE RUN.
  INSTALL ALISHING STATIONS AND ISOLATION VALVES AT EVERY 1500 FT OF PIPE RUN AND WHENEVER TWO OR

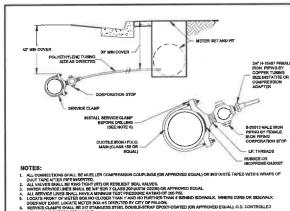
#### SEOTECHNICAL NOTE:

BACKFILL OF L.P. SEWER TRENCHES SHALL BE IN ACCORDANCE WITH THE DETAIL ON PAGE ONE OF THESE CITY OF FALLON STANDARDS. THE REQUIREMENT FOR CLASS IV SEDDING SAND MAY BE WANTED IF THE TRENCH IS IN A NON-STRUCTURAL LOCATION AND THE NATURE MATERIAL HAS A PLASTICHTY INDEX OF LESS THAN DETAILS.

- THE CITY OF FALLON OR IT'S AUTHORIZED INSPECTOR SHALL INSPECT ALL SYSTEMS PRIOR TO BURGAL COMPACTION TESTING 9978 ASTN D18579 IS REQUIRED IN ALL STRUCTURAL AREAS, HYDROSTATIC ALLY TEST THE LINE TO 150% OF DEAD HEAD PRESSURE (80 ps) FOR 2 HOURS, SYSTEM SHALL NOT LOSE MORE THAN 5 ps WITHIN THIS TESTING PERIOD.

**GENERAL NOTES** 





- SAUQUEE FOR EXPERIENTS MANNE.

  7. ALL RANCE AND DALL WHERE METER BOXES SHALL HAVE A REBUTE READER CADLE PROVISION IN LID.

  (SEE WHITE! METER DETAILS IF I & 818,

  (SEE WHITE! METER DETAILS IN I & 818,

  (SEE WHITE! 11. CUSTOMERS ARE REQUESED TO HAVE A SHUTOFF DEVICE ON THEIR SIDE OF THE WATER METER FOR EMBRODICY
  12. ALL POLYETHYLINE TURNS SHALL COMPONED TO MANN STANDARD GOD "POLYETHYLINE TURNS, SHALL FOR THEIRING, IN INCH.
  THROUGH IN INCH FOR WATER SERVICE" AND ASTIM 2027S SPECIACITION FOR OLYETHYLINE UPEN PASTO TURNS.

WATER SERVICE CONNECTION

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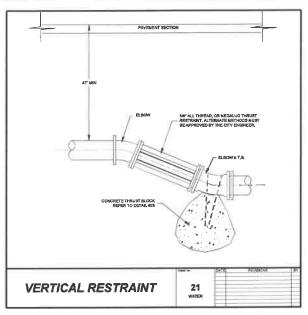
INVESTMENTS LLC VEMENT PLANS FOR R ESTATES PHASE 6 되 SHE AIL ROCKHOUND II CIVIL IMPROVE COUNTRY AIR I

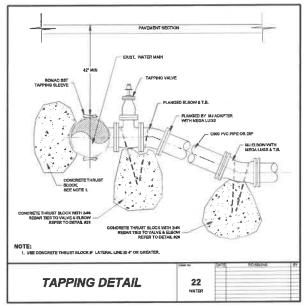
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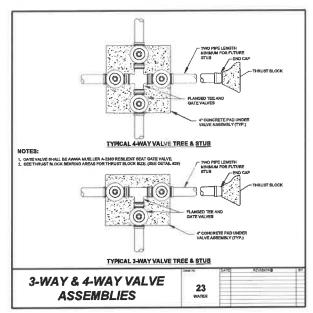
JOB No. COUNTRYAIR.00 DATE: 6/28/2023 VERT. SCALE: NA HORIZ. SCALE: 1"=20" DRAWN BY: TJM CHECKED BY: JRH

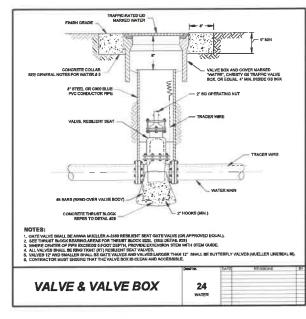
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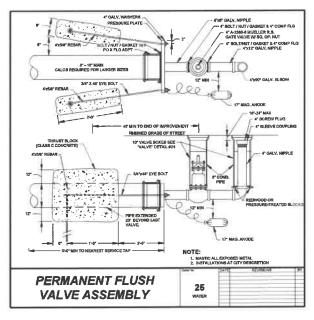
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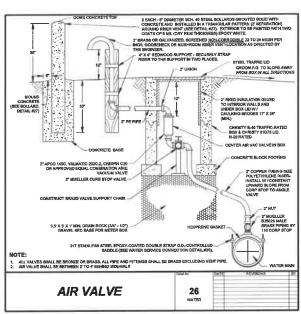


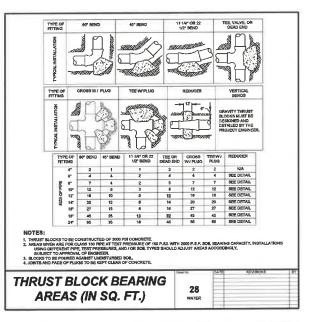


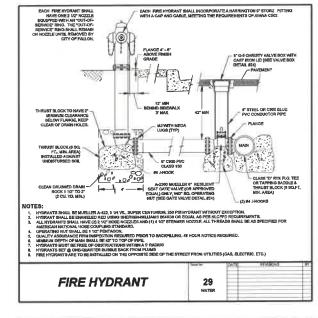


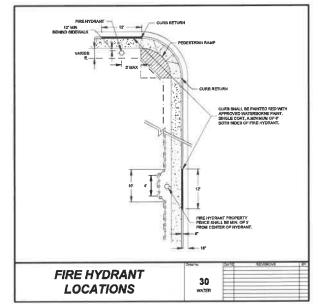


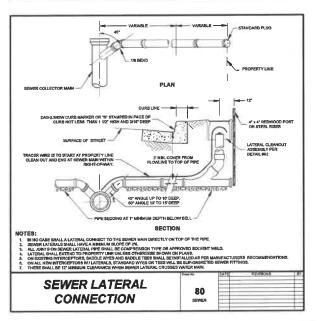


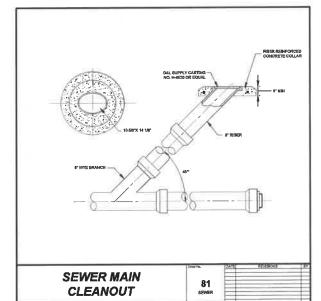


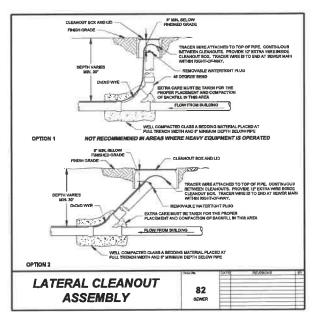


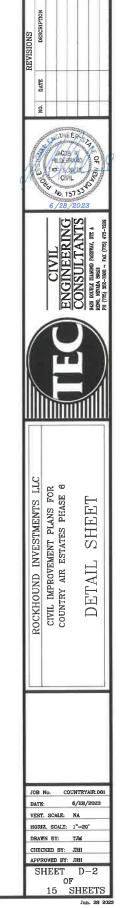


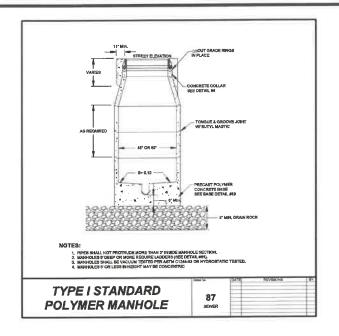


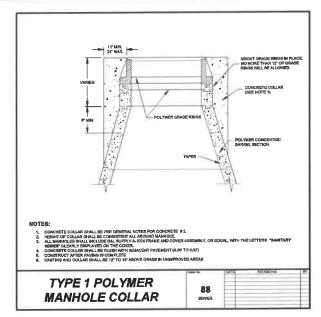


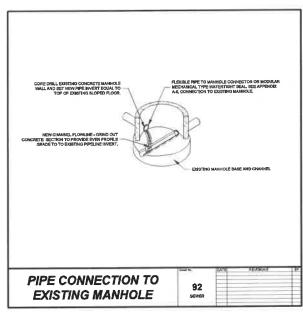


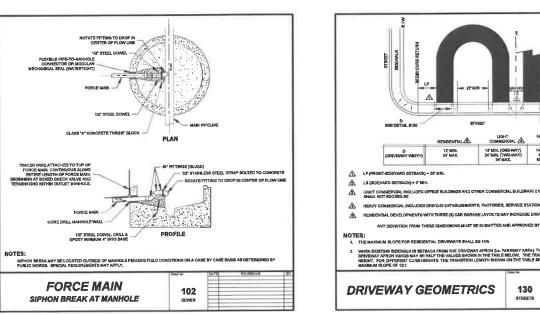


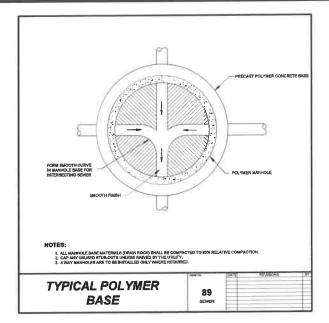


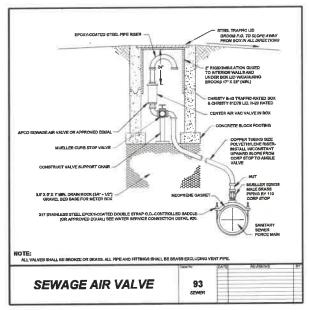


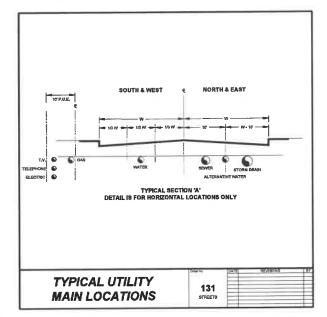


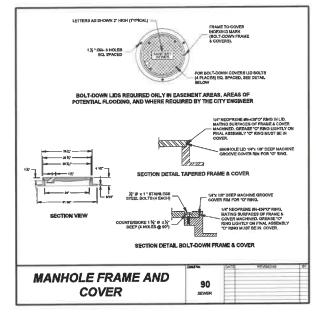


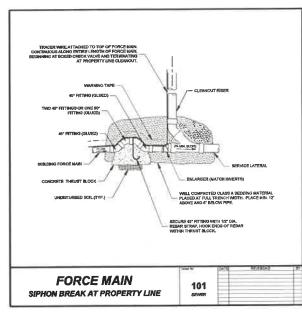


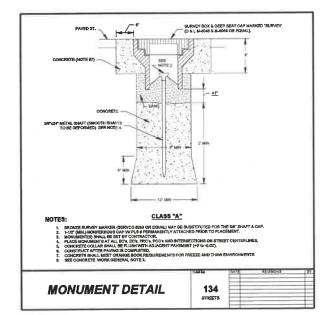


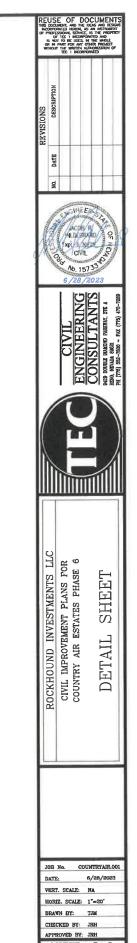


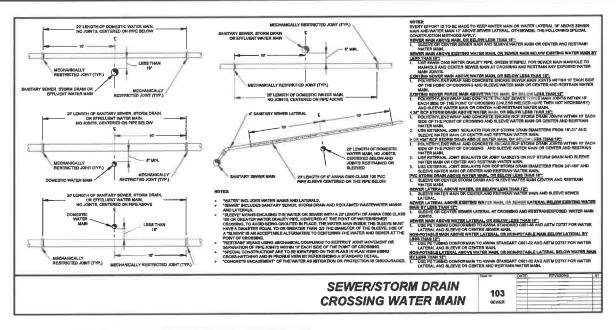


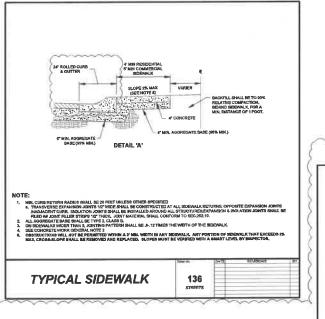


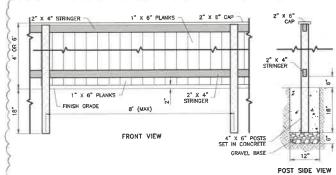












### 6' SOLID WOOD CEDAR FENCE (N.T.S.)

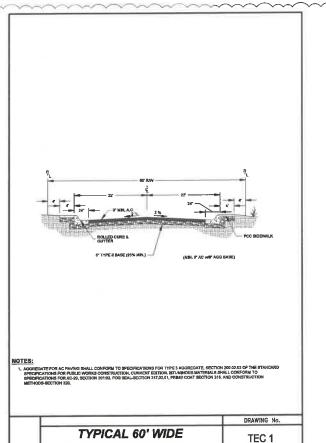
### GENERAL NOTES

- FENCE DETAILS ARE FOR GENERAL REFERENCE ONLY. MATERIAL SPECIFICATIONS AND STRUCTURAL COMPONENTS OF ALL FENCES AND GATES ARE THE RESPONSIBILITY OF THE FENCE CONTRACTOR.
- THE FENCE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE LAYOUT OF THE FENCES AND GATES TO ACCOMODATE EXISTING TOPOGRAPHY, UIILINES, ROCKERY WALLS AND ANY OTHER POTENTIAL CONFLICTS. QUESTIONS REGARDING THE FENCE OR GATE LAYOUT SHALL BE DIRECTED TO CITY OF FALLON.
- 3. FENCE LOCATIONS PER APPROVED SITE PLAN AND SUBSEQUENT PLOT PLANS.
  - 6' PRIVACY FENCE DETAIL

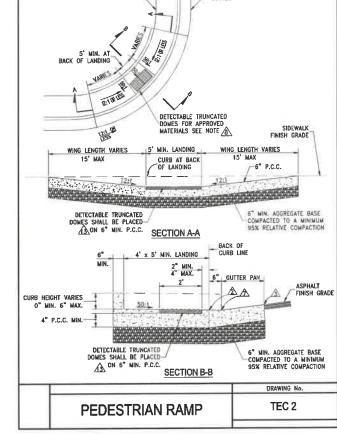
- STORM DRAIN INLETS OR SIMILAR ACCESSES SHALL NOT BE LOCATED IN THE AREA AT THE BASE OF THE CURB RAMP OR LANDING AREA. IF OBSTRUCTIONS SUCH AS INLETS, UTILITY POLES, PULL BOXES, FIRE HYDRAHTS, ETC. ARE ENCOUNTERED, THE LOCATION AND DIMENSIONS MAY BE ADJUSTED UPON APPROVAL OF THE ENGINEER.
- 2. NO LIP SHALL BE PERMITTED AT THE CURB RAMP SLOPE TO GUTTER PAN.
- 3. PLANTMIX BITUMINOUS SURFACE SHALL BE FLUSH WITH THE EDGE OF THE GUTTER PAN IN THE AREA OF THE CURB RAMP.
- 4. ROUGH BROOM TEXTURE ON CURB RAMPS AND WINGS.
- 5. DETECTABLE WARNING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL BE PLACED ON MIN. SIX (6") INCHES OF P.C.C.
- ALL SLOPE RATES ARE RELATIVE TO LEVEL AND SHALL COMPLY WITH THE PUBLIC RIGHT-OF-WAY
  ACCESSIBILITY GUIDELINES (PROWAG) STANDARDS, CURRENT VERSION.
- 7. GUTTER SHALL MAINTAIN POSITIVE DRAINAGE TO PREVENT PONDING
- B. DETECTABLE WARNING SHALL CONSIST OF PRECAST WETSET TILES WITH MIN. SIZE OF 2' X 2'. COLOR DARK RED. APPROVED PRODUCTS INCLUDE: "ACCESS TILE", "TERWAY DOME-TILES", "ADA SOLUTIONS", AND "TUFTILE". DETECTABLE WARNING SHALL BE CONSTRUCTED PER MANUFACTURER'S INSTALLATION GUIDELINES AND CONFORM TO PROWAG.
- 9. CONCRETE REMOVAL SHALL BE TO NEAT SAW CUT LINES
- AGGREGATE BASE MATERIAL UNDER PEDESTRIAN RAMPS SHALL BE TYPE 2, CLASS B CRUSHED AGGREGATE BASE. MATERIALS SHALL CONFORM TO SSPWC SECTION 200.
- 11. 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 CONFORN 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 COLARSE AGGREGATE GRADATION CONFORMING TO SIZE NO. 67. POLYPROPYLENE OR CELLULIOSE FIBERS SHALL BE ADDED TO THE P.C.C. AT 1.5 LBS. PER CUBIC YARD. ALL MATERIALS SHALL CONFORM TO SSPWC.
- 12. CONTRACTORS SHALL CORRECT ANY GRADE CONFLICT WITH EXISTING BOXES. THE ENGINEER SHALL MAKE THE FINAL DETERMINATION REGARDING THE DEGREE OF MODIFICATIONS REQUIRED BY THE CONTRACTOR FOR GRADE CONFLICTS BETWEEN EXISTING BOXES AND NEW PEOSTRIAN RAMPS.
- 13. SIDEWALK AT BOTH SIDES OF RAMP MAY BE RECONSTRUCTED TO MINIMIZE THE GRADE AT A HORIZONTAL DISTANCE TO BE DETERMINED IN THE FIELD, UPON APPROVAL OF THE ENGINEER, SUBJECT TO PROWAG REQUIREMENTS. CURS AT THE BACK OF WALK MAY BE NEEDED. A TRANSITION SECTION OF SIDEWALK MAY BE NECESSARY TO MATCH CROSS SLOPE OF EXISTING SIDEWALK TO PEDESTRIAN RAMP IMPROVEMENTS. TRANSITION SECTIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- 14. CONTRACTOR SHALL CONSTRUCT ROUNDED CURBS WHERE THEY INTERSECT. RADIUS SHALL BE 1 FT MINIMUM MEASURED FROM FACE OF CURB. CURBS THAT INTERSECT AT A POINT SHALL NOT BE ALLOWED.

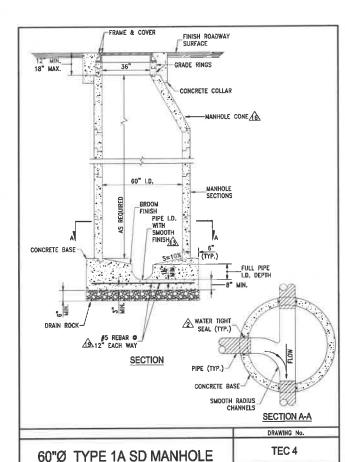
NOTES - PEDESTRIAN RAMP

TEC 3



STREET SECTION





GENERAL MANHOLE NOTES

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BACK OF

1. ALL PRECAST MANHOLE COMPONENTS SHALL CONFORM TO ASTM C-478.

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 PER STANDARD DETAILS R-223A, R-223B AND R-223C.

- MANHOLE BASE SHALL BE PORTLAND CEMENT CONCRETE (P.C.C.) AND SHALL HAVE THE FOLLOWING CHARACTERISTICS: 3000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, MINIMUM 6 SACKS OF CEMENT PER CUBIC YARD WITH SLUMP AT 1 TO 4 MINIES. ALL MARERIAL SHALL CONFORM TO STANDARD SPECIFICATIONS OF 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. TYPE V MANHOLE TO BE UTILIZED FOR PIPE DIAMETERS OF 15" THROUGH 27" OR DEPTHS EXCEEDING 18 FEET.
- 6. MANHOLE MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF SECTION 204 "MANHOLE AND CATCH BASINS" OF THE STANDARD SPECIFICATIONS.
- 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.
- 8. EXCAVATION AND BACKFILL SHALL BE AS SPECIFIED FOR "TRENCH EXCAVATION AND BACKFILL" IN SECTION 305 OF THE STANDARD SPECIFICATIONS.
- EXCAVATION SHALL BE AS HEARLY VERTICAL AS POSSIBLE (SHEET AND SHORE IF SOIL CONDITIONS REQUIRE) I EXISTING STREET SECTIONS, ALLEY SECTIONS, AND CONFINED AREAS, SUCH AS LIMITED EASEMENTS OR ADJACENT STRUCTURES.
- 10. MANHOLE PRECAST SECTION LENGTH SHALL BE ARRANGED TO FIT THE REQUIRED DEPTH.
- 11. NO LATERALS OR PIPES LESS THAN 8" IN DIAMETER SHALL BE CONNECTED TO THE MANHOLE
- 12. PRECAST CONCRETE BASE MAY BE USED IN LIEU OF CAST-IN-PLACE BASE.
- MATCH PIPE INVERTS TO MANHOLE INVERTS WHERE PIPES CONNECT TO MANHOLE BASE.
- 14. ALL MANHOLES SHALL BE WATERTIGHT.
- 15. SEE DETAIL FOR OUTSIDE DROP MANNOLE FOR SANITARY SEWERS WITH MORE THAN 2 FEET VERTICAL DROP AT THE MANNOLE. THE USE OF "INSIDE DROP" MANHOLES IS NOT PERMITTED.
- THE USE OF FLAT TOP MANHOLE CONES REQUIRES PRIOR APPROVAL FROM THE CITY ENGINEER.
- 17. PRIOR TO BACKFILLING, ALL MANHOLES SHALL BE VACUUM TESTED PER ASTM C-1244.
- 18. NO STEPS, LADDERS, OR OTHER CLIMBING DEVICES SHALL BE INSTALLED IN THE MANHOLE.
- AS REINFORCING STEEL SHALL BE AS SHOWN, WIRED TIGHTLY AT ALL INTERSECTIONS AND EMBEDDED AT LEAST 15." CLEAR, UNLESS OTHERWISE NOTED.
- 20, WHEN PIPE CONNECTIONS TO EXISTING MANHOLES ARE ALLOWED, THEY SHALL BE MADE BY CORE DRILLING THE MANHOLE AND CONNECTING THE PIPE PENETRATION PER DETAIL R-223A & R-223B.

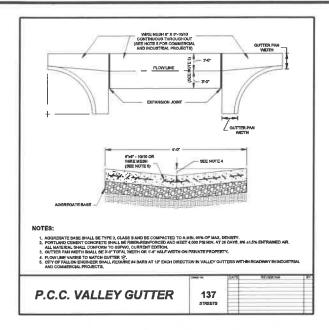
60"Ø SD MANHOLE NOTES

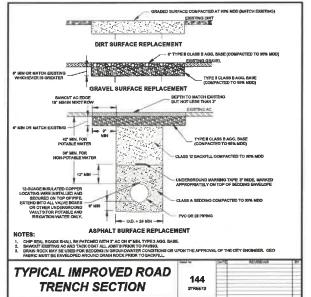
TEC 5

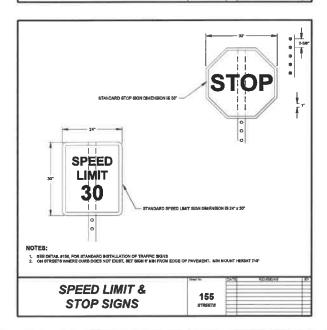
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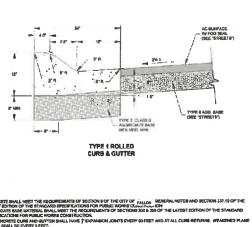
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SHEET D-4

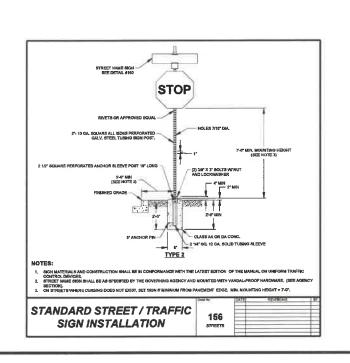


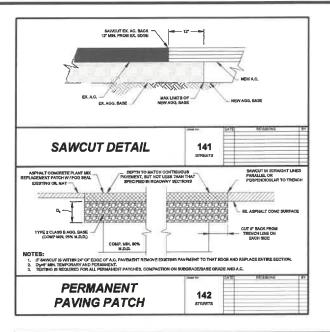


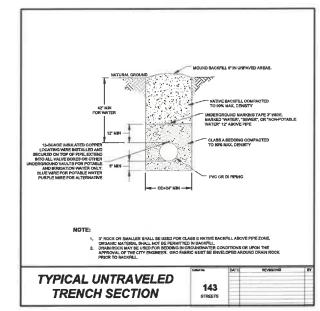


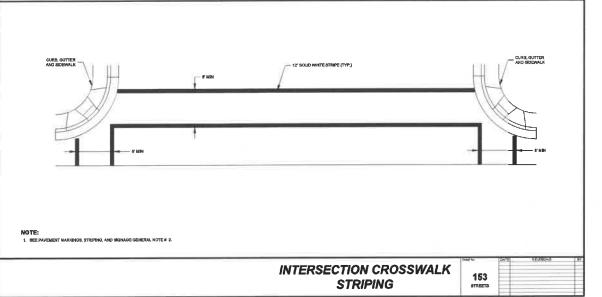


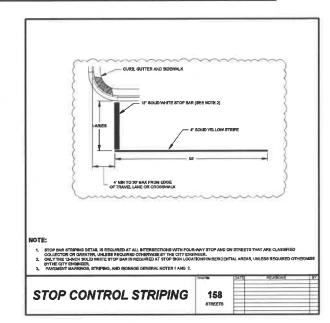


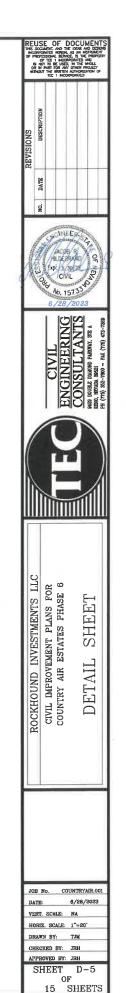


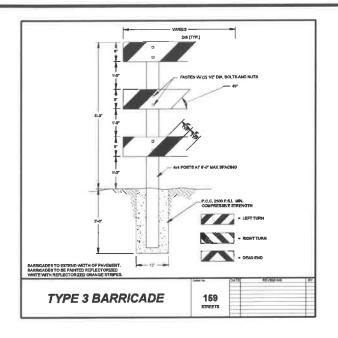


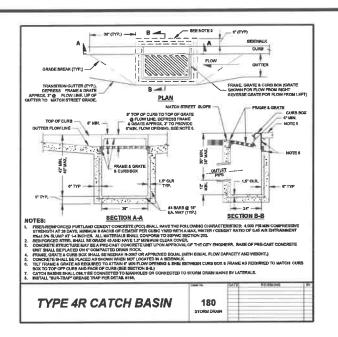


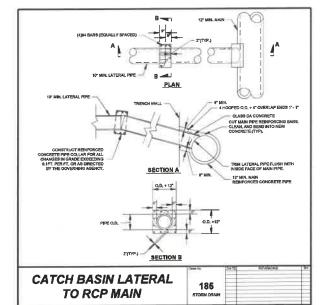


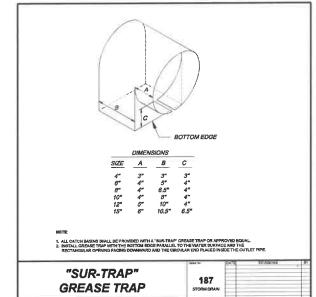




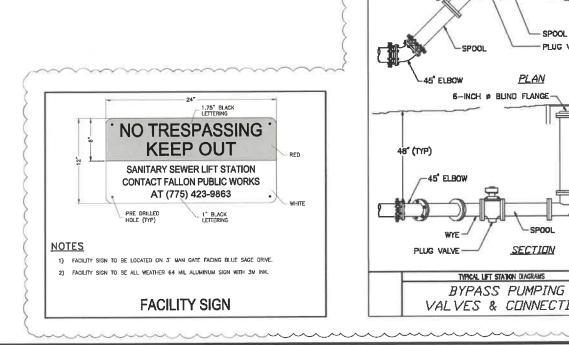


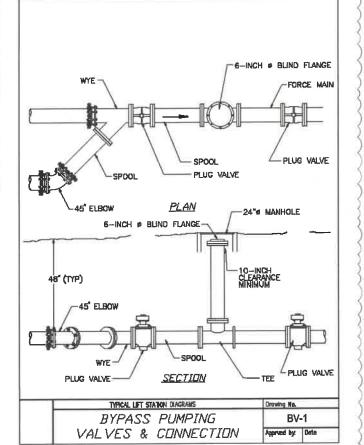


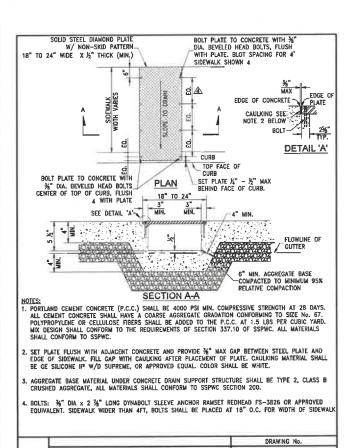












SIDEWALK CROSS-DRAIN

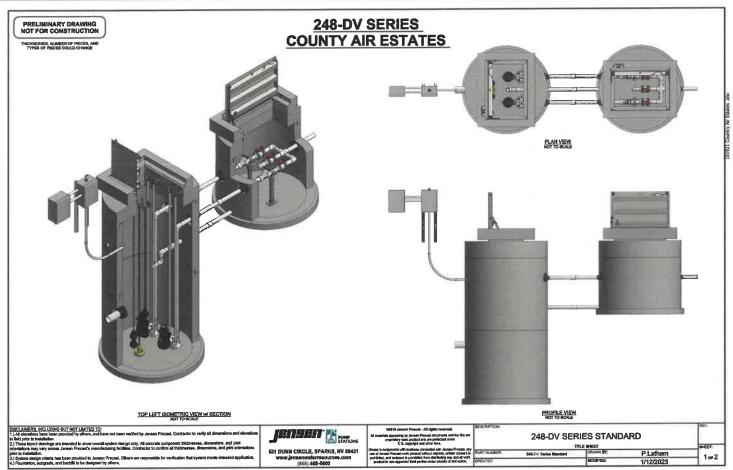


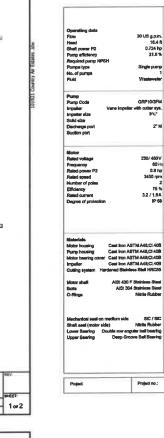
R-105

SHEET

DETAIL

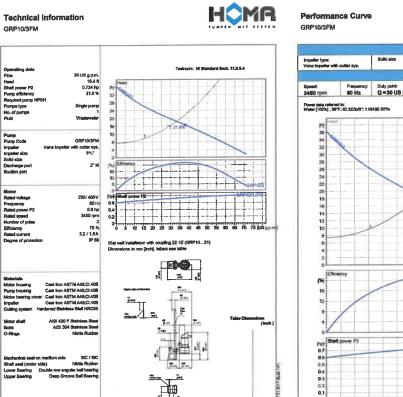
ROCKHOUND II CIVIL IMPROVE





GRP10/3FM

Technical Information

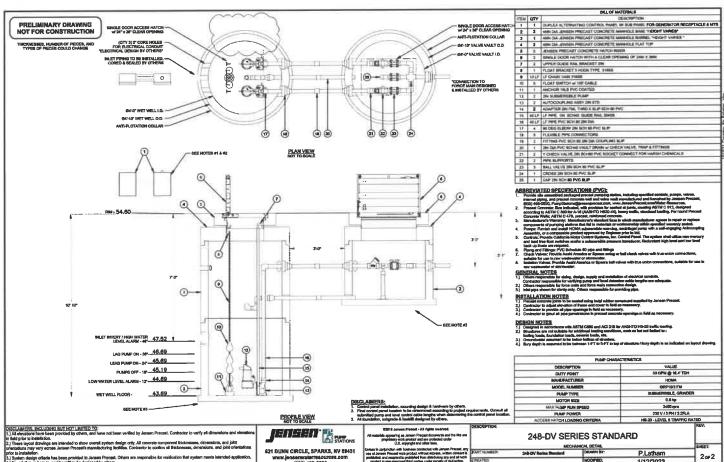


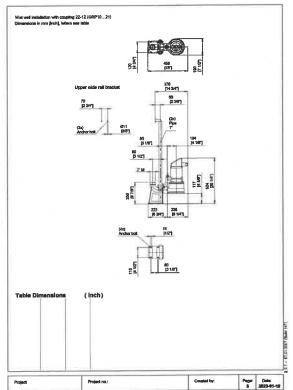
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HOMA







	Operating data					
Flow	30 US g.p.mUS g.p.m.	Head	16.43 ft ft			
Shaft power P2	0.7 hp	Static head	7,6 ft			
Pump efficiency	21.6 %	Required pump NPSH	8			
Pumps type	Single pump	No. of pumps	1			
Puid Puid	Wastewater	Temperature	58 °F			
Dennity		Kirs. viecosity	1.077E-5 E76			
Denning			1.0.12.7			
	Put	0.0				
Pump Code	GRP10/3FM	Speed	3490 rpm			
Stuction port		Head Man.	36.3 R			
Clecherge port	2°M	Min.	1.6 8			
Impeller type	Vene impeller with catter sys.					
Solid eize	inch	Pump efficiency mex.	21.5 %			
Impelier Ø	3,74 Inch	Required raied power max. P2	0.8 hp			
	Mo	tor				
Motor design	Butimenship motor	Irrestation classe.	H:			
Motor name	AM120TM.1,6/2/3	Degree of protection	IP 68			
Frequency	80 Hz	Temperature class	T4			
Reled power P2	0.8 hp	NEMA code	F			
		Explosion protection	Class I, Div. 1, Grp. C&D			
Rated speed	3460 rpm					
Reted votage	230 /480 V 3-	at % rated power 75%	*			
Reled current	3.2 /1,8 A	50%	*			
Starting current, direct starting	25.0 / 12,5 A	cos phi	0.64			
Starting current, star-delta	A	at % rated power 75%				
Sterling mode	Directly	50%				
Power cable	7X1,5 / 6G1,5	Control cable				
Type of power cable	NSSHÖU-J/HO7FMG-F PLUS	Type of control cable				
Cable length	10	Service factor	1.15			
Shall seed	Mechanical seal on medium side SIC / SIC Shaft seal (motor side) Militie Fluibler					
Bouring	Lower Bearing Double row angular ball bearing					
Remarks	Upper Boaring	Deep Groove Ball Bea	ing			
Projection						
		/ Weight				
Motor housing	Casi Hor ASTM A48 CL408	Shotor whath Botts	A15/ 430 F Standard Short			
Pump housing	Cast Into ASTM A48 Ct.408	200	AISI 304 Stainless Steel Nitrile Rubber			
Motor bearing cover	Cast Inter ASTM A46.CL408 Cast Inter ASTM A46.CL408	0-Rings	Letter Lmong,			
Pump housing Motor bearing cover Impelier Cutting system	Cast Iron ASTM A48,CI.408 Hardened Statemen Stat HRC	116				
Cutting system	Professional Statement State (OVC	~				

