ALL CONSTRUCTION AND MATERIALS SHALL COMPLY WITH THE MOST RECENT EDITIONS OF THE FOLLOWING: THE INTERNATIONAL PLUMBING CODE, UTAH DRINKING WATER REGULATIONS, APWA STANDARDS & SPECIFICATIONS, CITY PUBLIC WORKS STANDARD PLANS AND CONSTRUCTION SPECIFICATIONS. THE CONTRACTOR IS REQUIRED TO ADHERE TO ALL OF THE ABOVE-MENTIONED DOCUMENTS UNLESS OTHERWISE NOTED AND APPROVED IN WRITING BY THE GOVERNING AUTHORITY.

2 CONTACT:

THE CONTRACTOR IS RESPONSIBLE TO NOTIFY ALL APPROPRIATE GOVERNMENT AND PRIVATE ENTITIES ASSOCIATED WITH THE PROJECT.

3. PERMITS, FEES AND AGREEMENTS

CONTRACTOR MUST OBTAIN ALL THE NECESSARY PERMITS AND AGREEMENTS, AND PAY ALL APPLICABLE FEES PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTACT CITY PUBLIC WORKS, STATE, AND COUNTY REGARDING PERMITS AND INSPECTIONS REQUIRED FOR WORK CONDUCTED WITHIN THE PUBLIC RIGHT-OF-WAY. APPLICABLE UTILITY PERMITS MAY INCLUDE MAINLINE EXTENSION AGREEMENTS AND SERVICE CONNECTION PERMITS. ALL UTILITY WORK MUST BE BONDED. ALL CONTRACTORS MUST BE LICENSED TO WORK ON CITY UTILITY MAINS.

4. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NOTES

CONSTRUCTION SITES MUST BE IN COMPLIANCE WITH THE UDEQ POLLUTION DISCHARGE ELIMINATION SYSTEM (NMPDES) STORM WATER PERMIT FOR CONSTRUCTION ACTIVITIES. A COPY OF THE PERMIT'S STORM WATER POLLUTION PREVENTION PLAN MUST BE KEPT ONSITE AT ALL TIMES. EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AS SHOWN ON THE SWPPP. THE SWPPP IS CONSIDERED A DYNAMIC DOCUMENT AND MUST CHANGE AS CONDITIONS WARRANT. ADDITIONAL WATER QUALITY AND EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDING ON SITE CONDITIONS.

THE CONTRACTOR IS RESPONSIBLE FOR ALL ASPECTS OF SAFETY OF THE PROJECT. AND SHALL MEET ALL OSHA, STATE, COUNTY AND OTHER GOVERNING ENTITY REQUIREMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFORMING TO LOCAL AND FEDERAL CODES GOVERNING SHORING AND BRACING OF EXCAVATIONS AND TRENCHES, AND FOR THE PROTECTION OF WORKERS.

6. TEMPORARY TRAFFIC CONTROL

TEMPORARY TRAFFIC CONTROL MUST CONFORM TO THE MOST CURRENT EDITION OF MUTCD PART 6 "TEMPORARY TRAFFIC CONTROL" AND CITY CONSTRUCTION SPECIFICATIONS. ALL TRAFFIC LANE CLOSURES AND PEDESTRIAN ROUTE CLOSURES MUST BE APPROVED BY CITY, COUNTY, OR STATE AGENCIES A MINIMUM OF 24 HOURS PRIOR TO BEGINNING WORK. THE CONTRACTOR MUST ALSO CONFORM TO CITY, NMDOT, COUNTY, OR OTHER APPLICABLE GOVERNING ENTITIES REQUIREMENTS FOR TRAFFIC CONTROL. MAINTAIN EMERGENCY ACCESS TO THE SITE AND ACCESS TO SURROUNDING FIRE HYDRANTS AT ALL TIMES.

CONTRACTOR MUST PROVIDE A REGISTERED LAND SURVEYOR OR PERSONS UNDER SUPERVISION OF A REGISTERED LAND SURVEYOR TO SET STAKES FOR ALIGNMENT AND GRADE OF EACH UTILITY AND SITE IMPROVEMENT. THE CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING, MAINTAINING, OR RESTORING ALL MONUMENTS, REFERENCE MARKS, AND PROPERTY MARKERS WITHIN THE PROJECT SITE, CONTACT THE COUNTY SURVEYOR FOR MONUMENT LOCATIONS. ALL ELEVATIONS SHALL BE REFERENCED TO THE BENCHMARK ELEVATION AS PROVIDED ON THE APPROVED PLANS.

8. QUALITY CONTROL

WHERE TWO OR MORE STANDARDS ARE SPECIFIED AND THE STANDARDS ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, COMPLY WITH THE CITY PUBLIC WORKS SPECIFICATION FIRST AND THE MOST STRINGENT REQUIREMENT SECOND. REFER UNCERTAINTIES AND REQUIREMENTS TO THE PROJECT ENGINEER FOR CLARIFICATION.

9. DUST CONTROL

THE CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL ACCORDING TO THE GOVERNING ENTITY STANDARDS. USE OF HYDRANT WATER OR PUMPING FROM CITY-OWNED CANALS OR STORM DRAINAGE FACILITIES IS NOT ALLOWED FOR DUST CONTROL ACTIVITIES WITHOUT WRITTEN APPROVAL BY THE PUBLIC WORKS DIRECTOR.

10. DEWATERING

ALL ON-SITE DEWATERING ACTIVITIES MUST BE APPROVED IN WRITING BY PUBLIC UTILITIES. PROPOSED OUTFALL LOCATIONS AND ESTIMATED FLOW VOLUME CALCULATIONS MUST BE SUBMITTED TO PUBLIC UTILITIES FOR REVIEW AND APPROVAL ADEQUATE MEASURES MUST BE TAKEN TO REMOVE ALL SEDIMENT PRIOR TO DISCHARGE. PUBLIC UTILITIES MAY REQUIRE ADDITIONAL MEASURES FOR SEDIMENT CONTROL AND REMOVAL.

THE CONTRACTOR MUST KEEP ALL EXCAVATIONS FREE FROM GROUNDWATER BY DEWATERING. THE CONTRACTOR MUST DISPOSE OF WATER SO AS NOT TO CAUSE A MENACE TO PUBLIC HEALTH, OR BECOME A NUISANCE. THE GROUNDWATER SHALL BE DRAWN DOWN TO 12" BELOW THE MINIMUM EXCAVATION. DEWATERING SHALL CONTINUE UNTIL FILL HAS BEEN PLACED AND COMPACTED A MINIMUM OF 24" ABOVE THE STATIC GROUNDWATER LEVEL. THE CONTRACTOR SHALL CONFORM TO BEST MANAGEMENT PRACTICES FOR REMOVING GROUNDWATER AS PER THE UPDES PERMIT

11. PROJECT LIMITS

THE CONTRACTOR IS REQUIRED TO KEEP ALL CONSTRUCTION ACTIVITIES WITHIN THE APPROVED PROJECT LIMITS. THIS INCLUDES, BUT IS NOT LIMITED TO, VEHICLE AND EQUIPMENT STAGING, MATERIAL STORAGE AND LIMITS OF TRENCH EXCAVATION. IT IS THE CONTRACTORS RESPONSIBILITY TO OBTAIN PERMISSION AND/OR EASEMENTS FROM THE APPROPRIATE GOVERNING ENTITY AND/OR INDIVIDUAL PROPERTY OWNER(S) FOR WORK OR STAGING OUTSIDE OF THE PROJECT LIMITS.

12. DAMAGE TO EXISTING UTILITIES

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE, CAUSED BY ANY CONDITION INCLUDING SETTLEMENT, TO EXISTING UTILITIES FROM WORK PERFORMED AT OR NEAR EXISTING UTILITIES. THE CONTRACTOR SHALL TAKE ALL MEASURES NECESSARY TO PROTECT ALL EXISTING PUBLIC AND PRIVATE ROADWAYS AND UTILITY FACILITIES. DAMAGE TO EXISTING FACILITIES CAUSED BY THE CONTRACTOR, MUST BE REPAIRED BY THE CONTRACTOR AT HIS/HER EXPENSE, TO THE SATISFACTION OF THE OWNER OF SAID FACILITIES.

13. UTILITY LOCATIONS

CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND AVOIDING ALL UTILITIES AND SERVICE LATERALS, AND FOR REPAIRING ALL DAMAGE THAT OCCURS TO THE UTILITIES DUE TO THE CONTRACTOR'S ACTIVITIES, CONTRACTOR IS TO VERIFY LOCATION, DEPTH SIZE, MATERIAL AND OUTSIDE DIAMETERS OF UTILITIES IN THE FIELD BY POTHOLING IN ORDER TO IDENTIFY POTENTIAL CONFLICTS, AND PROBLEMS WITH FUTURE CONSTRUCTION ACTIVITIES. EXISTING UTILITY INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FROM PUBLIC UTILITIES' MAPS AND MUST BE ASSUMED AS APPROXIMATE: REQUIRING FIELD VERIFICATION. CONTACT BLUE STAKES OR APPROPRIATE OWNER FOR COMMUNICATION, GAS, TELEPHONE, FIBER OPTIC, CABLE, AND/OR PRIVATE UTILITY LOCATIONS.

14. UTILITY RELOCATIONS

FOR UTILITY CONFLICTS REQUIRING MAINLINE RELOCATIONS, THE CONTRACTOR MUST NOTIFY THE APPLICABLE UTILITY COMPANY, OR USER, A MINIMUM OF 2-WEEKS IN ADVANCE. A ONE-WEEK MINIMUM NOTIFICATION IS REQUIRED FOR CONFLICTS REQUIRING THE RELOCATION OF SERVICE LATERALS. ALL RELOCATIONS ARE SUBJECT TO APPROVAL FROM THE APPLICABLE UTILITY COMPANY AND/OR USER.

15. FIELD CHANGES

NO ROADWAY, UTILITY ALIGNMENT OR GRADE CHANGES ARE ALLOWED FROM THE APPROVED CONSTRUCTION PLANS/DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE PUBLIC WORKS DIRECTOR. CHANGES TO HYDRANT LOCATIONS AND/OR FIRE LINES MUST BE REVIEWED AND APPROVED BY THE FIRE DEPARTMENT (AS APPLICABLE TO THE PROJECT) AND PUBLIC WORKS.

16. PUBLIC NOTICE TO PROJECTS IN THE PUBLIC WAY

FOR APPROVED PROJECTS THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND DISTRIBUTE WRITTEN NOTICE TO ALL RESIDENTS LOCATED WITHIN THE PROJECT AREA AT LEAST 72-HOURS PRIOR TO CONSTRUCTION. WORK TO BE CONDUCTED WITHIN COMMERCIAL OR INDUSTRIAL AREAS MAY REQUIRE A LONGER NOTIFICATION PERIOD AND ADDITIONAL CONTRACTOR COORDINATION WITH PROPERTY OWNERS. THE WRITTEN NOTICE IS TO BE APPROVED BY THE PUBLIC WORKS DIRECTOR OR CITY ENGINEER.

17. PUBLIC NOTICE FOR WATER MAIN SHUT DOWNS

THE PUBLIC WORKS DEPARTMENT AND CITY ENGINEER MUST APPROVE ALL WATER MAIN SHUTDOWNS. ONCE APPROVED, THE CONTRACTOR MUST NOTIFY ALL AFFECTED USERS BY WRITTEN NOTICE A MINIMUM OF 48-HOURS (RESIDENTIAL) AND 72-HOURS (COMMERCIAL/INDUSTRIAL) PRIOR TO THE WATER MAIN SHUT DOWN. PUBLIC WORKS MAY REQUIRE LONGER NOTICE PERIODS.

18. WATER AND SEWER SEPARATION

IN ACCORDANCE WITH UTAH'S DEPARTMENT OF HEALTH REGULATIONS, A MINIMUM TEN-FOOT HORIZONTAL AND 1.5-FOOT VERTICAL (WITH WATER ON TOP) SEPARATION IS REQUIRED. IF THESE CONDITIONS CANNOT BE MET, STATE AND PUBLIC WORKS APPROVAL IS REQUIRED. ADDITIONAL CONSTRUCTION MEASURES WILL BE REQUIRED FOR THESE CONDITIONS.

19. SEWER MAIN AND LATERAL CONSTRUCTION REQUIREMENTS PUBLIC WORKS MUST INSPECT ALL SEWER CONNECTIONS. ALL SEWER LATERALS 6-INCHES AND SMALLER MUST WYE INTO THE MAINS PER PUBLIC WORKS

REQUIREMENTS. A MINIMUM 4-FOOT BURY DEPTH IS REQUIRED ON ALL SEWER MAINS AND LATERALS. THE CONTRACTOR MUST PROVIDE AIR PRESSURE TESTING OF SEWER MAINS IN

ACCORDANCE WITH PIPE MANUFACTURERS RECOMMENDATIONS AND PUBLIC WORKS REQUIREMENTS. THE CONTRACTOR SHALL PROVIDE SEWER LATERAL WATER TESTING AS REQUIRED BY THE PUBLIC WORKS DIRECTOR OR INSPECTOR. ALL PIPES SUBJECT TO WATER TESTING SHALL BE FULLY VISIBLE TO THE INSPECTOR DURING TESTING. TESTING MUST BE PERFORMED IN THE PRESENCE OF A PUBLIC WORKS REPRESENTATIVE. ALL VISIBLE LEAKAGE MUST BE REPAIRED TO THE SATISFACTION OF THE PUBLIC WORKS ENGINEER OR INSPECTOR.

WATER AND FIRE MAIN AND SERVICE CONSTRUCTION REQUIREMENTS PUBLIC WORKS MUST INSPECT AND APPROVE ALL FIRE AND WATER SERVICE CONNECTIONS. A MINIMUM 3-FOOT SEPARATION IS REQUIRED BETWEEN ALL WATER AND

FIRE SERVICE TAPS INTO THE MAIN. ALL CONNECTIONS MUST BE MADE MEETING PUBLIC WORKS REQUIREMENTS. A 7-FOOT MINIMUM BURY DEPTH (FINAL GRADE TO TOP OF PIPE) IS REQUIRED ON ALL WATER/FIRE LINES UNLESS OTHERWISE APPROVED BY PUBLIC UTILITIES. WATER LINE THRUST BLOCK AND RESTRAINTS ARE REQUIRED AS PER PUBLIC WORKS STANDARDS DRAWINGS AND CONSTRUCTION SPECIFICATIONS. ALL EXPOSED NUTS AND BOLTS WILL BE COATED WITH CHEVRON FM1 GREASE, PLUS A MINIMUM 8 MIL THICKNESS PLASTIC. PROVIDE STAINLESS STEEL NUTS, BOLTS, AND WASHERS FOR HIGH GROUNDWATER/ SATURATED CONDITIONS AT FLANGE FITTINGS, ETC.

ALL WATERLINE INSTALLATIONS AND TESTING TO BE ACCOMPLISHED IN ACCORDANCE WITH PUBLIC WORKS STANDARDS AND SPECIFICATIONS, INCLUDING UTAH STATE DRINKING WATER STANDARDS, AWWA SPECIFICATIONS, AND ALL OTHER APPLICABLE UPWS, ASTM, AND ANSI SPECIFICATIONS RELEVANT TO THE INSTALLATION AND COMPLETION OF THE PROJECT.

ALL NEW WATER MAINS OR APPURTENANCES SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA STANDARD C651-99. THE SPECIFICATION SHALL INCLUDE DETAILED PROCEDURES FOR THE ADEQUATE FLUSHING, DISINFECTION, AND MICROBIOLOGICAL TESTING OF ALL WATER MAINS. ON ALL NEW AND EXTENSIVE DISTRIBUTION SYSTEM CONSTRUCTION, EVIDENCE OF SATISFACTORY DISINFECTION SHALL BE PROVIDED TO THE UTAH DIVISION OF DRINKING WATER. SAMPLES FOR COLIFORM ANALYSES SHALL BE COLLECTED AFTER DISINFECTION IS COMPLETE AND THE SYSTEM IS REFILLED WITH POTABLE WATER. A STANDARD HETEROTROPHIC PLATE COUNT IS ADVISABLE. THE USE OF WATER FOR CULINARY PURPOSES SHALL NOT COMMENCE UNTIL THE BACTERIOLOGIC TESTS INDICATE THE WATER TO BE FREE FROM CONTAMINATION.

CONTRACTOR IS TO INSTALL WATER SERVICE LINES, METER YOKES, AND/OR ASSEMBLIES AND METER BOXES WITH LIDS LOCATED AS APPROVED ON THE PLANS, AND PER APPLICABLE PUBLIC UTILITIES DETAIL DRAWINGS. METER BOXES ARE TO BE PLACED IN THE PARK STRIPS PERPENDICULAR TO THE WATERMAIN SERVICE TAP CONNECTION. ALL WATER METERS, CATCH BASINS, CLEANOUT BOXES, MANHOLES DOUBLE CHECK VALVE DETECTOR ASSEMBLIES, REDUCED PRESSURE DETECTOR ASSEMBLIES, AND BACKFLOW PREVENTION DEVICES MUST BE LOCATED OUTSIDE OF ALL APPROACHES, DRIVEWAYS, PEDESTRIAN WALKWAYS, AND OTHER TRAVELED WAYS UNLESS OTHERWISE APPROVED ON PLANS.

BACKFLOW PREVENTERS ARE REQUIRED ON ALL IRRIGATION AND FIRE SPRINKLING TAPS BY ASTM D-1557: PER PUBLIC UTILITIES AND FIRE DEPARTMENT REQUIREMENTS.

21. GENERAL WATER, SEWER AND STORM DRAIN REQUIREMENTS NO CHANGE IN DESIGN OF UTILITY LOCATION OR GRADE WILL BE MADE BY THE CONTRACTOR WITHOUT THE WRITTEN APPROVAL OF CITY PUBLIC WORKS OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.

NO SUBSTITUTES IN PIPE DIAMETER DIFFERENT FROM THOSE SHOWN ON THIS PLAN WILL BE PERMITTED UNLESS SUBMITTED TO AND APPROVED BY THE CITY PUBLIC WORKS, OR OTHER AUTHORITY HAVING JURISDICTION OVER THAT UTILITY.

ALL MANHOLES, HYDRANTS, VALVES, CLEAN-OUT BOXES, CATCH BASINS, METERS, ETC. MUST BE RAISED OR LOWERED TO FINAL GRADE PER PUBLIC WORKS STANDARDS, AND INSPECTOR REQUIREMENTS. CONCRETE COLLARS MUST BE CONSTRUCTED ON ALL MANHOLES, CLEANOUT BOXES, CATCH BASINS AND VALVES PER PUBLIC WORKS STANDARDS. ALL MANHOLE, CATCH BASIN, OR CLEANOUT BOX CONNECTIONS MUST BE MADE WITH THE PIPE CUT FLUSH WITH THE INSIDE OF THE BOX, AND GROUTED OR SEALED. ALL MANHOLE, CLEANOUT BOX OR CATCH BASIN DISCONNECTIONS MUST BE REPAIRED AND GROUTED WATERTIGHT.

CONTRACTOR SHALL NOT ALLOW ANY SURFACE WATER, GROUNDWATER OR DEBRIS TO ENTER THE NEW, OR EXISTING PIPE DURING CONSTRUCTION.

22. TRENCH BACKFILL

PIPE BEDDING AND TRENCH BACKFILL SHALL CONFORM TO PUBLIC WORKS STANDARDS. PLACE BACKFILL IN 8-INCH MAXIMUM LIFTS AND COMPACT TO 95% MAXIMUM DRY DENSITY AS PER ASTM D1557. THE PIPE SHALL BE LAID ON 6-INCH MINIMUM SAND BED. THE BACKFILL MATERIAL FOR THE PIPE ZONE SHALL BE A-1 SOILS, FREE FROM STONES, CLODS AND OTHER DELETERIOUS MATERIALS.

THE BOTTOM OF ALL UTILITY TRENCHES SHALL BE COMPACTED THOROUGHLY PRIOR TO PLACING PIPE. IF ROCK IS ENCOUNTERED AT DESIGN GRADE, OR A SOFT OR SOGGY BOTTOM IS ENCOUNTERED, THE TRENCH BOTTOM SHALL BE OVEREXCAVATED AND SUITABLE MATERIAL PLACED AND COMPACTED TO BOTTOM OF TRENCH GRADE.

COMPACTION REPORTS ON ALL TRENCHES SHALL BE SUBMITTED TO THE PROJECT ENGINEER, CITY ENGINEER, AND/OR OWNER'S REPRESENTATIVE BY THE MATERIALS TESTER, WHICH CERTIFIES THAT TRENCH BACKFILL WAS COMPACTED AS DIRECTED BY THE GEOTECHNICAL REPORT, IN ACCORDANCE WITH EARTHWORK SPECIFICATIONS AND PUBLIC WORKS SPECIFICATIONS.

23. SITE CONSTRUCTION

ALL EXISTING ASPHALT TO BE CUT SHALL BE SAW CUT IN NEAT STRAIGHT LINES BY THE CONTRACTOR PRIOR TO EXCAVATION.

GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS ON SITE. CONTRACTORS SHALL HAVE VISITED AND BECOME FAMILIAR WITH THE PROJECT SITE.

GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE SITE CLEANUP INCLUDING DEBRIS, SCRAP, AND WASTE FROM SUBCONTRACTORS, AND INSTALLERS,

BEFORE BEGINNING ANY CUTTING OR DEMOLITION, THE CONTRACTOR SHALL HAVE REVIEWED THE SITE AND CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE CONTINUING.

CONTRACTOR SHALL PROVIDE PAVEMENT MARKINGS JUST PRIOR TO PROJECT COMPLETION. PAINT STRIPING SHALL CONSIST OF PAINTED LINES AND SYMBOLS IN ACCORDANCE WITH MUTCD STANDARDS & SPECIFICATIONS.

24. CONCRETE (CIVIL WORK ONLY)

CONCRETE

MIX TYPE

FOOTINGS

AND WALLS)

PECIFIED

ALL WORK SHALL CONFORM TO ACI AND ADA STANDARDS & SPECIFICATIONS FINE BROOM FINISH REQUIRED ON EXTERIOR FLATWORK.

28 DAY

STRENGTH,

f`c (KSI)

4

4

CONCRETE MIX TABLE

MIN CEMENT

MATERIA

(#/CY),

INCLUDING

FLY ASH

470

517

564

517

MAX

AGGREGATE

SIZE (IN)

SLUMP

LIMITS (IN)

4

TOTAL AIR

1 1/**2**%

NOT PERMITTED

CEMENT

TYPE

II/V

II/V

II/V

II/V

CONTENT (%) +/

MAX W/C

RATIO,

FLY ASH

0.45

0.45

0.4

0.45

0.45

INCLUDING

CONCRETE

WEIGHT

NWC

NWC

NWC

NWC

NWC

CONCRETE COVER	
CASE	COVER (IN)
COLUMNS GIRDERS AND BEAMS	1 1/2
CONCRETE PLACED AGAINST EARTH	3
CONCRETE PLACED IN FORMS, EXPOSED TO WEATHER OR EARTH	2
SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER	1

REINFORCING MATERIAL TABLE ASTM | Fy (KSI) | Fu (KSI) | COMMENTS REINFORCING ELEMENT 60 80 TYPICAL REINFORCING A706 WELDED & FIELD BENT A706 | 60 | 80 A185 65 75 WELDED WIRE, SMOOTH A497 70 80 WELDED WIRE, DEFORMED

** OR SEISMICALLY QUALIFIED ASTM A615 REBAR PER ACI 318-05 SECTION

INTENDED USE

GRADE BEAMS, PILASTERS

ALL CONCRETE EXPOSED TO

INTERIOR SLABS ON GRADE

WEATHER, OR DEICERS (SLABS

ALL CONCRETE OTHERWISE NOT

25. GRADING/EARTHWORK

THE GRADING CONTRACTOR SHALL OBTAIN A COPY OF THE SITE GEOTECHNICAL REPORT AND FOLLOW ALL RECOMMENDATIONS PROVIDED BY THE GEOTECHNICAL ENGINEER.

NO GRADE CHANGES WILL BE PERMITTED FROM THAT SHOWN AND APPROVED ON THIS PLAN WITHOUT RESUBMITTING THE PROPOSED CHANGES TO THE OWNER AND/OR HIS REPRESENTATIVE.

COMPACTION OF MATERIALS PLACED AT THE SITE SHOULD EQUAL OR EXCEED THE FOLLOWING DENSITIES WHEN COMPARED TO THE MAXIMUM DRY DENSITY AS DETERMINE

FOOTINGS = (SEE STRUCTURAL DRAWINGS) PAVEMENT = 95% LANDSCAPING = 90%

26. PAVEMENT

PAVEMENT STRUCTURAL SECTION FOR THE AUTOMOBILE PARKING, MANEUVERING AREAS AND LIGHT TO MEDIUM TRUCK AREAS SHALL CONSIST OF 4 INCHES OF ASPHALT SURFACE COURSE OVER 6 INCHES OF BASE COURSE OVER A PREPARED SUBGRADE, OR SELECT FILL. THE GRANULAR BASE SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DI DENSITY AS DETERMINED BY ASTM D698. ALL CONCRETE SLABS SHALL CONSIST OF A 6" PORTLAND CEMENT CONCRETE SLAB OVER A PREPARED SUBGRADE OR SELECT FILL.

PAVEMENT MATERIALS SHOULD MEET THE UTAH DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR GRADATION & QUALITY. (1/2" AGGREGATE REQUIRED IN PARKING AREAS)

27. AS-BUILT DRAWINGS

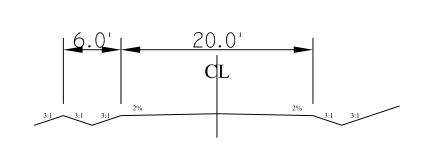
THE CONTRACTOR MUST MAINTAIN A SET OF COMPLETE PLANS ON THE SITE AT ALL TIMES THE CONTRACTOR MUST MARK IN RED INK DEVIATIONS FROM THE APPROVED SET OF DRAWINGS, INCLUDING:

ALIGNMENT OR GRADE CHANGES

DRAINAGE CHANGES SUCH AS LOCATION, FLOWLINE, STRUCTURE, SIZE, ETC. SURFACE CHANGES SUCH AS DITCHES, PAVING, CURBS, SIDEWALKS, ETC. UTILITY CHANGES, RELOCATIONS, OR CONFLICTS ITEMS OR UTILITIES NOT SHOWN ON THE APPROVED SET OF PLANS LIST ALTERNATE CONSTRUCTION METHODS

STRUCTURAL CONFLICTS OR RELOCATION OF EXISTING WALLS, UTILITY POLES, ETC

THE CONTRACTOR MUST PROVIDE THE PROJECT ENGINEER OR OWNER'S REPRESENTATIVE WITH A COMPLETE SET OF AS-BUILT PLANS FOR CITY RECORDS.



ROADWAY PROFILE

OTHER

REQUIREMENTS

FLY ASH REQD

FLY ASH REQD

FLY ASH REQD

FLY ASH REQD

Please also show the road cross section showing the depths of asphalt base and sub base and the

width of asphalt/shoulders/drainage swales.

REQUIRED

ADMIXTURES

AIR ENTRAININ

ENTRAINING,

WATER

REDUCING

AIR ENTRAINING | FLY ASH REQD

Rev. # Rev. Date Rev. Desc

 \circ

 \cap

OKÜ

No. 7738648

STUART

SSEPH-W.

PROJECT NO:	120138
DESIGN BY:	JWS
DRAWN BY:	AWF
CHECKED BY:	JWS
DATE:	3/25/2021

CIVIL NOTES

C-0.2

INDEX OF DRAWINGS

DWG #

C - 0.1

C - 0.2

C - 1.1

C-1.2

C - 1.3

C - 1.4C - 1.5

C - 1.6

C - 5.1

C - 5.2

C - 5.3

C - 5.4

DETAIL OR SECTION IS TO $^{-1}$

APWA STANDARD DRAWINGS

BE FOUND IN THE 2012

SHEET #

SHEET NAME

SITE PLAN

UTILITY PLAN

PLAN & PROFILE

GENERAL NOTES

TOPOGRAPHIC SURVEY

GRADING & DRAINAGE PLAN

CIVIL DETAILS - SHEET 1

CIVIL DETAILS - SHEET 2

CIVIL DETAILS - SHEET 3

CIVIL DETAILS - SHEET 4

INDEX. LEGEND. AND ABBREVIATIONS

PLAN & PROFILE ACCESS & SANITARY

	G	E	N	D	

EVICTING	
EXISTING	

■ = MONUMENT

◆ = BENCHMARK

• RIVET

+ = SECTION CORNER

PROPOSED
■ ■ MONUMENT
♦ = SECTION CORNER
♦ = BENCHMARK
o = RIVET

	approx az	APPROXIMATEL AZIMUTH
	BAL	BALANCE
1011	BEG	BEGINNING /
ON	BDRY	BOUNDARY
ELEVATION	BK	BACK
	RKFI	BACKELLI

ΑT

ABUTMENT

AVERAGE DAILY TRAFFIC

	FLR	FLOOR
BALANCE	FL	FLANGE
BEGINNING / BEGIN	FT	FEET
BOUNDARY	FTG	FOOTING
BACK	FW	FLAT WASHE
BACKFILL	FE	FIRE EXTING
BLIND FLANGE	FP	FLOOR PENE
BUILDING		
BUREAU OF LAND	G	GAS
MANAGEMENT	GA	GAGE OR GA
BENCH MARK	GALV	GALVANIZED
BLOCK	GEN	GENERAL
ROTTOM	GM	CAS METER

GALV	GALVANIZED
GEN	GENERAL
GM	GAS METER
GSP	GALVANIZED STEE
GV	GATE VALVE
HDWL	HEADWALL
H&T	HUB & TACK
HOR/HORZ/HORIZ	HORIZONTAL
HWL	HIGH WATER LEV
1.104/07	11101114/43/

Ν	INCH
NFO	INFORMATION
RR	IRRIGATION
NV	INVERT
ICT	JUNCTION
-	LENGTH
_B	POUND
G	LONG

	LLINOTTI
	POUND
	LONG
	LICENSE
	LINEAR / LINEAL
3	PROPANE GAS LINE
	LAND SURVEYOR
	LEFT
L	LOW WATER LEVEL
INT	MAINTENANCE
TL	MATERIAL

.IL	MATERIAL
X	MAXIMUM
R	MARKER
	MANHOLE
	MILE
V	MINIMUM
SC	MISCELLANEOUS
N	MONUMENT

	NORTH
OOR#	NUMBER
PW	NON-POTABLE WATER
TS .	NOT TO SCALE
	ON CENTER
	OUTSIDE DIAMETER

MILES PER HOUR

OD	OUTSIDE DIAMETER
0-0	OUTSIDE TO OUTSID
OFF REV	OFFICE REVISION
ORIG	ORIGINAL
PVMT	PAVEMENT
PC	POINT OF CURVATU
PCC	POINT OF COMPOUN
	CURVATURE
PFRF	
L \	PERFORATED

PΙ PL POC

PP

ORIGINAL
PAVEMENT
POINT OF CURVATURE
POINT OF COMPOUND
CURVATURE
PERFORATED
POINT OF INTERSECTION
PROPERTY LINE
POINT ON CURVE
POWER POLE

ABBREVIATIONS

N COR	FENCE CORNER	PRC	POINT OF REVERSE CURVE
	FLOOR DRAIN	PROJ	PROJECT
N	FOUNDATION	PROP	PROPERTY
	FINISH FLOOR	PSI	POUNDS PER SQUARE INCH
1	FINISH	PT	POINT OF TANGENCY
	FLOW LINE	POB	POINT OF BEGINNING
R	FLOOR	PVC	POLYVINYL CHLORIDE
	FLANGE		
	FEET	QTY	QUANTITY
G	FOOTING		
1	FLAT WASHER	R	RANGE / RADIUS
	FIRE EXTINGUISHER	RCP	REINFORCED CONCRETE PIPE
	FLOOR PENETRATION	RCCP	
	GAS	RD	ROAD
	GAGE OR GAUGE	REF	REFERENCE
LV	GALVANIZED	REINF	REINFORCED
Ν	GENERAL	REQ'D	REQUIRED
	GAS METER	REV	REVISION
Р	GALVANIZED STEEL PIPE	RP	REFERENCE POINT
	GATE VALVE	RR	RAILROAD
		RT	RIGHT / ROUTE
WL	HEADWALL	R/W	RIGHT OF WAY
:T	HUB & TACK		
R/HORZ/HORIZ	HORIZONTAL	S	SOUTH / SLOPE
/L	HIGH WATER LEVEL	SAN	SANITARY
/Y	HIGHWAY	SCH	SCHEDULE
D	HYDRANT	SD	STORM SEWER
		SEC COR	SECTION CORNER
	INSIDE DIAMETER	SHT	SHEET
	Invert elevation	SPECS	SPECIFICATIONS
	INCH	SQ	SQUARE
-0	INFORMATION	SQ FT	SQUARE FEET
?	IRRIGATION	SQ YD	SQUARE YARD
/	Invert	SS	STAINLESS STEEL
		ST	STREET
Т	JUNCTION	STL	STEEL
		STN STL	STAINLESS STEEL
	LENGTH	STA	STATION
	POUND	STD	STANDARD
	LONG	STRUCT	STRUCTURE

TΑ

TBC

TELE

TF

TP

TOC

TYP

UG

VBI

VC

VERT

VIC

VOL

VPI

VPC

VPT

W

WM

W/

W/O

XING

X-SEC

TW/TOW

TOWNSH	HIP / TELEPHONE
TOP OF	ASPHALT
TANGEN	١T
TOP BA	ACK CURB
TEMPOR	RARY
TELEPH	ONE / TELEGRAM
TOP OF	FOOTING
TELEPH	ONE POLE
TOP OF	WALL
TOP OF	CONCRETE
TYPICAL	

UNDEF	RGROUN	۷D
VINYL	BACK	INSULATIO
VERTIC	CAL CL	JRVE

VERTICAL			
VICTAULIC			
VOLUME			
VERTICAL	POINT	OF	INTERSECTION
VERTICAL	POINT	OF	CURVE
VERTICAL	POINT	OF	TANGENCY

VERTICAL POINT	OF	TANGE
WEST / WATER		
WATER METER		
WITH		

WITH WITHOUT

CROSSING CROSS SECTION



 \mathbf{M}

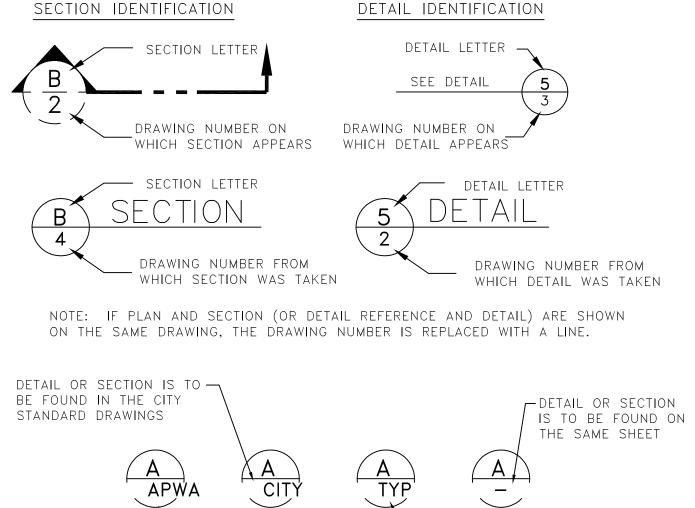
Rev. # Rev. Date Rev. Desc.

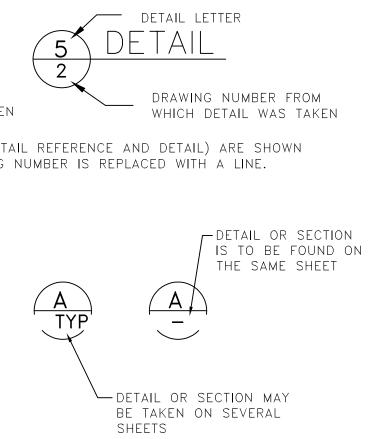
PROJECT NO:	120138
DESIGN BY:	JWS
DRAWN BY:	AWF
CHECKED BY:	JWS
DATE:	3/25/2021

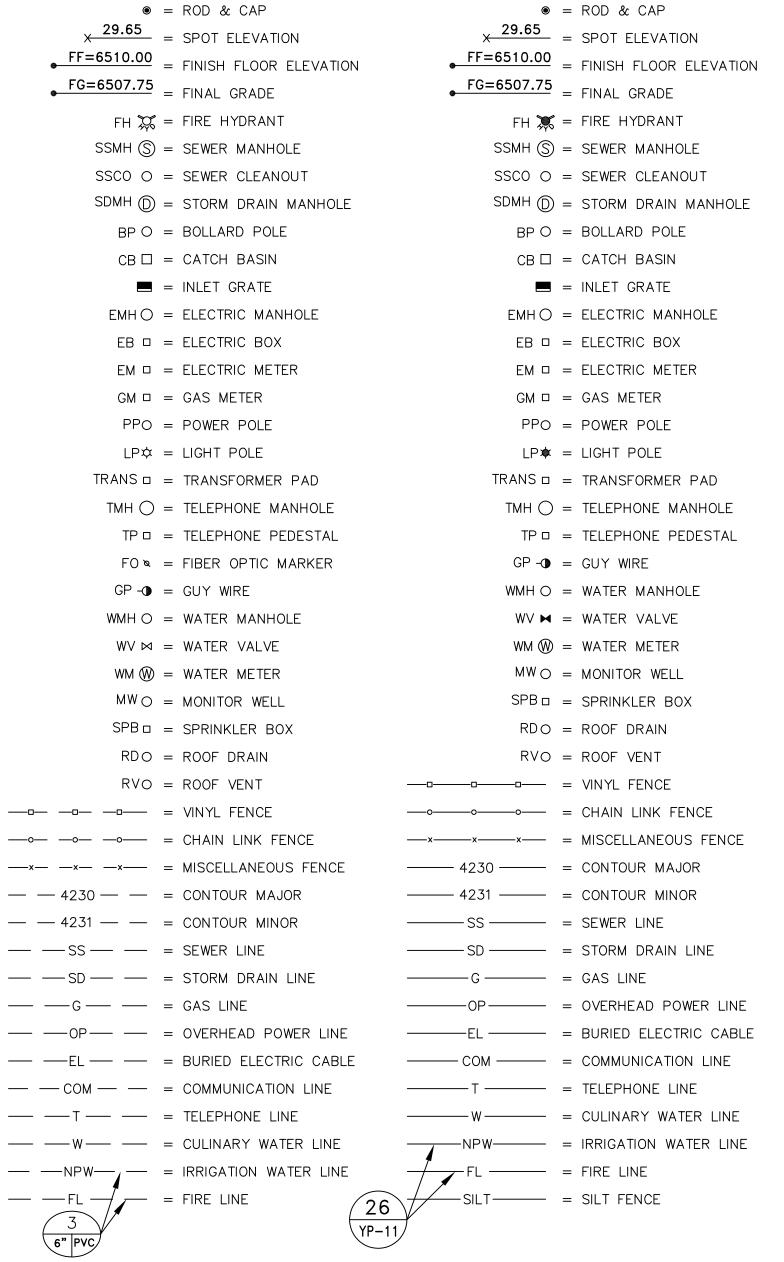
COVER SHEET

C-0.1

SECTION AND DETAIL IDENTIFICATION







BKFL BLD FLG BLDG BLM ВМ BLK BOT/BTM BEARING **BSMT** BASEMENT BETWEEN BTWN CALC CALCULATED СВ CATCH BASIN CCW COUNTER CLOCKWISE C-CCENTER TO CENTER C&G CURB AND GUTTER CEMETERY CFS CUBIC FEET PER SECOND CL CENTERLINE CIP CAST IRON PIPE CMP CORRUGATED METAL PIPE CMP-ACORRUGATED METAL PIPE-ARCH COB CLEAN OUT BOX COL COLUMN CONC CONCRETE CONST CONSTRUCT COR CORNER CTR CENTER CU FT CUBIC FEET CU YD CUBIC YARD CUL CULINARY CULV CULVERT CWCLOCKWISE DEGREE DET DETAIL MAII DIA DIAMETER MAT DIP DUCTILE IRON PIPE MAXDIST DISTANCE MKF DN DOWN МН DWG DRAWINGS ΜI DRAIN WASTE VENT DWV MIN EAST MIS EΑ EACH 10M ELEV/ELV ELEVATION MPH ELEC ELECTRIC EMB EMBANKMENT ENGR ENGINEER ENT ENTRANCE NP۱ ΕO EDGE OF OIL NTS EQUIP EQUIPMENT EST ESTIMATE ΕW EACH WAY EXC EXCAVATION 0 - 0EXIST EXISTING OFF ES EXIT SIGN ORIG PVMT РC PCC





NOT FOR CONSTRUCTION

COORDINATION

UNINCORPORATED, WEBER COUNTY POWDER MOUNTAIN

Rev. # Rev. Date Rev. Desc.

PROJECT NO: 120138

DESIGN BY: JWS

DRAWN BY: AWF

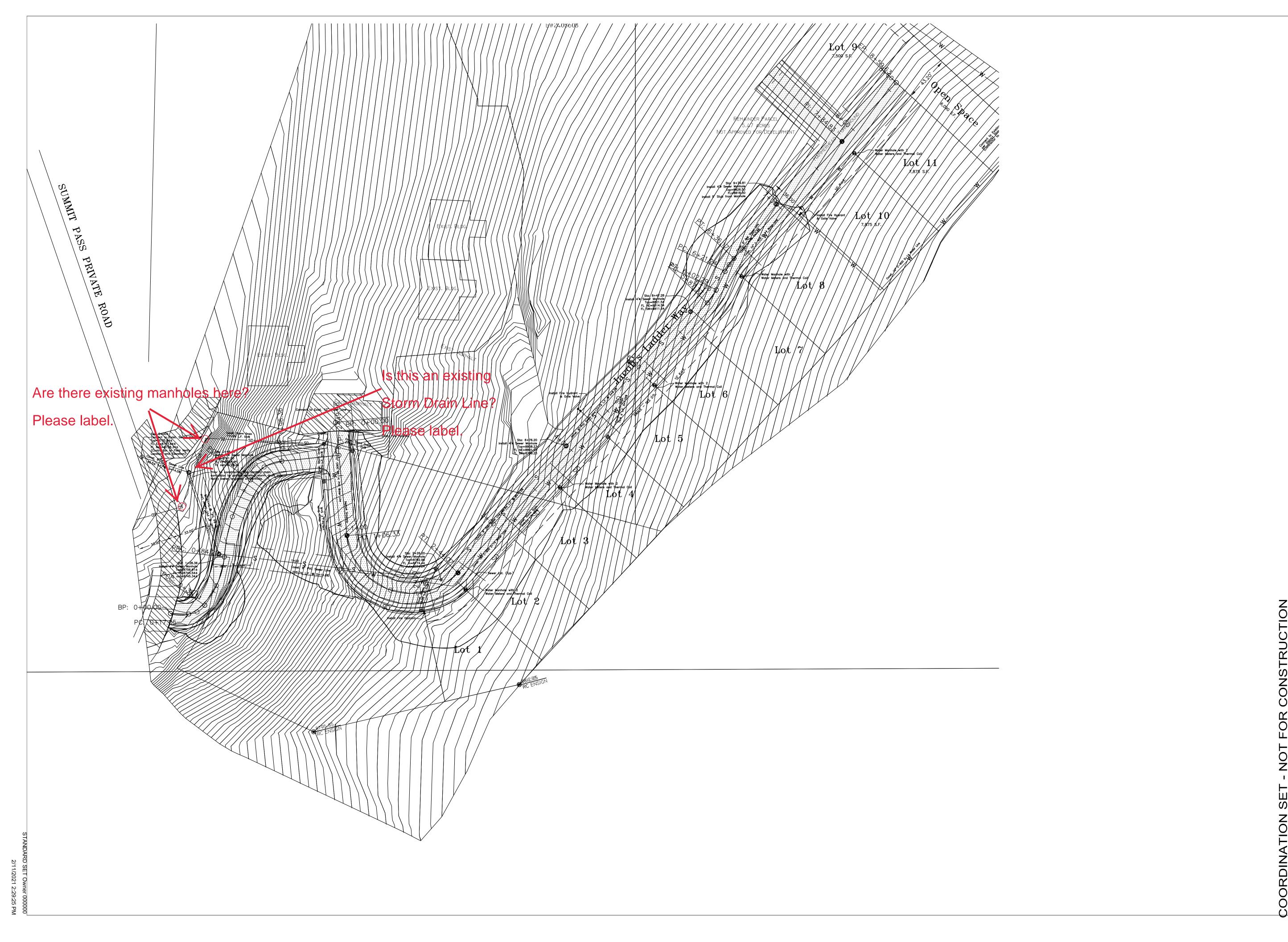
CHECKED BY: JWS

DATE: 3/25/2021

EX. TOPO SURVEY

C-1.1





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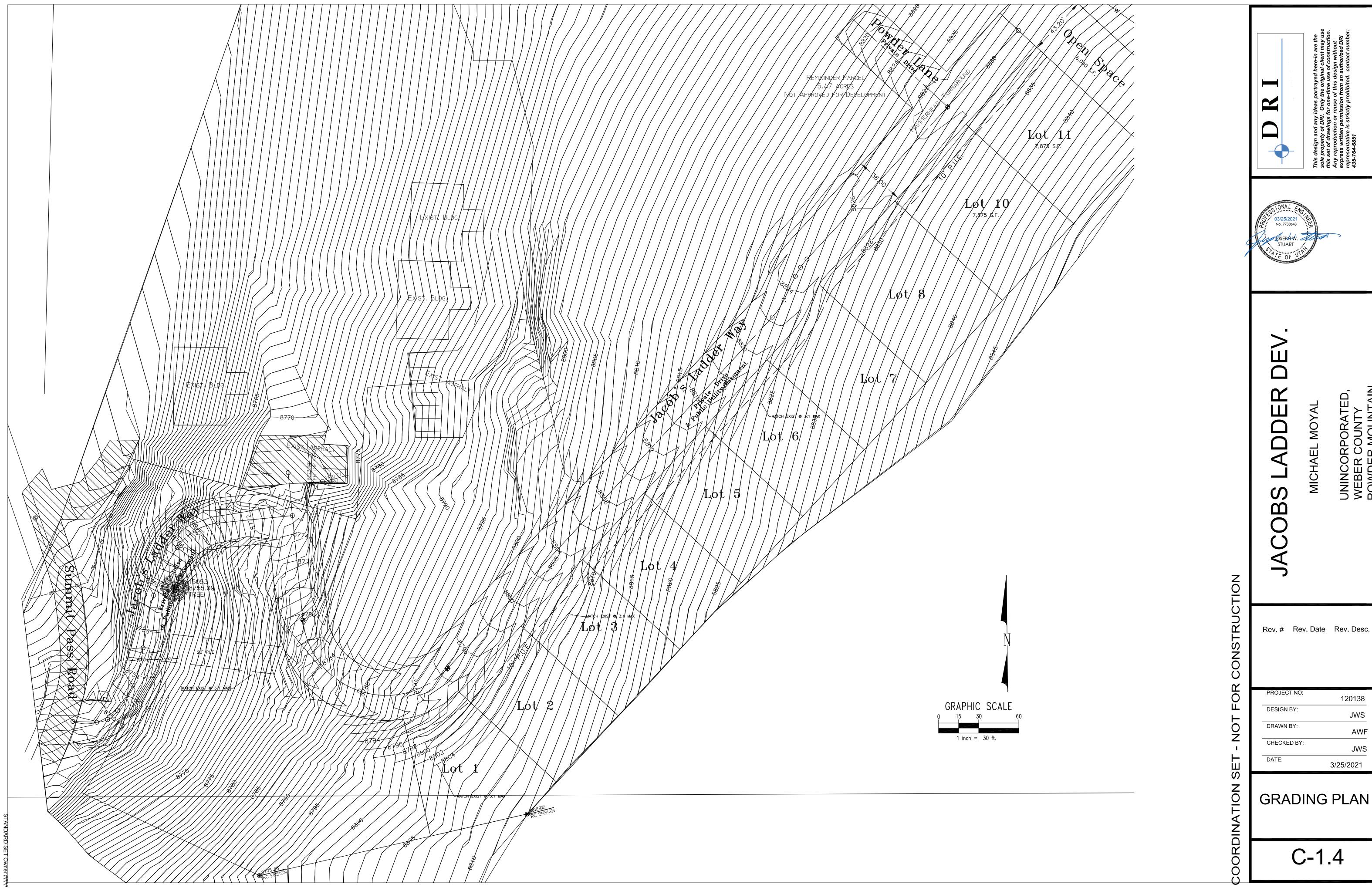
S LADDER DEV.

Rev. Date Rev. Desc.

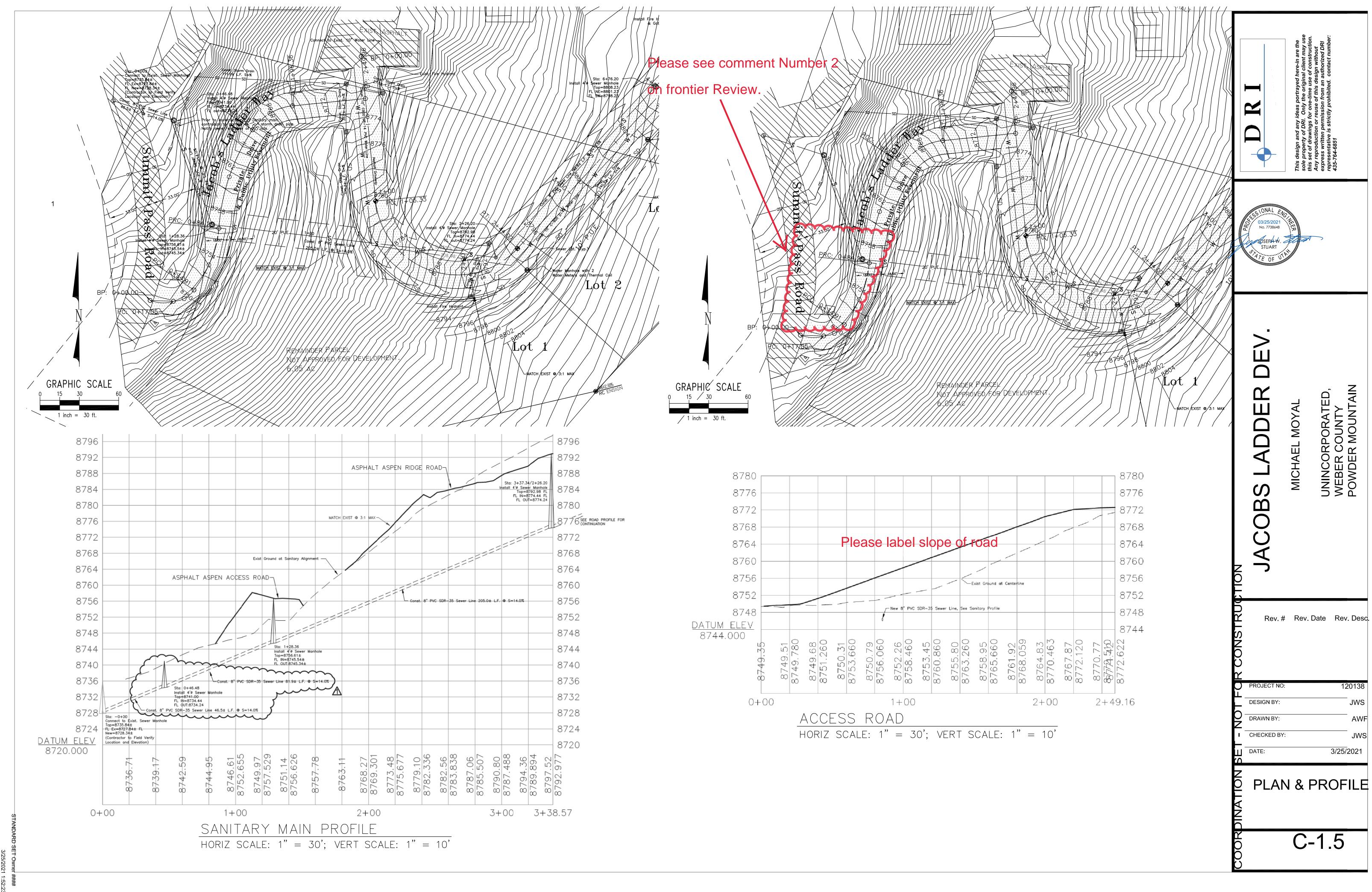
PROJECT NO:	120138
DESIGN BY:	JWS
DRAWN BY:	AWF
CHECKED BY:	JWS
DATE:	3/25/2021

UTILITY PLAN

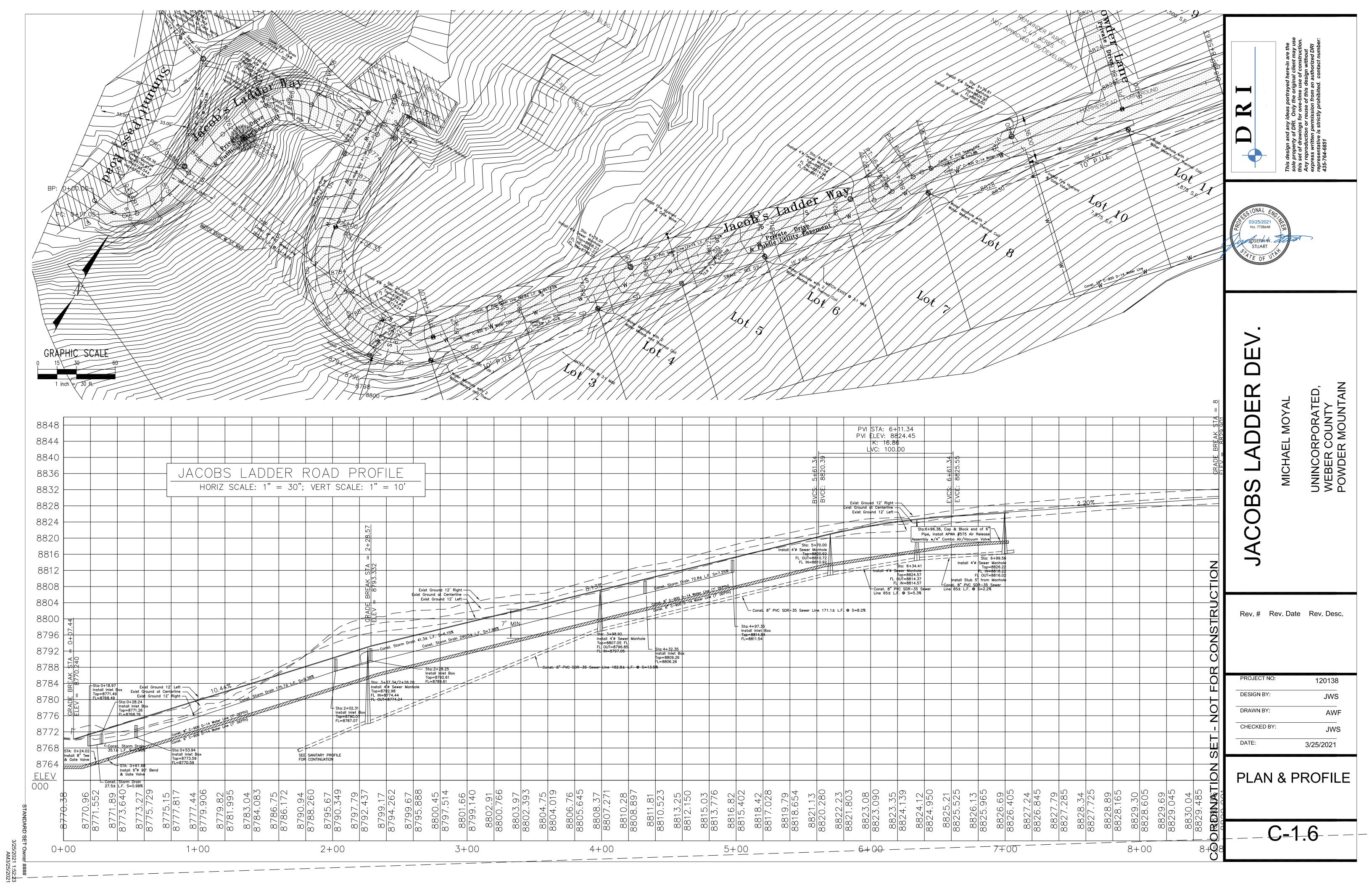
C-1.3

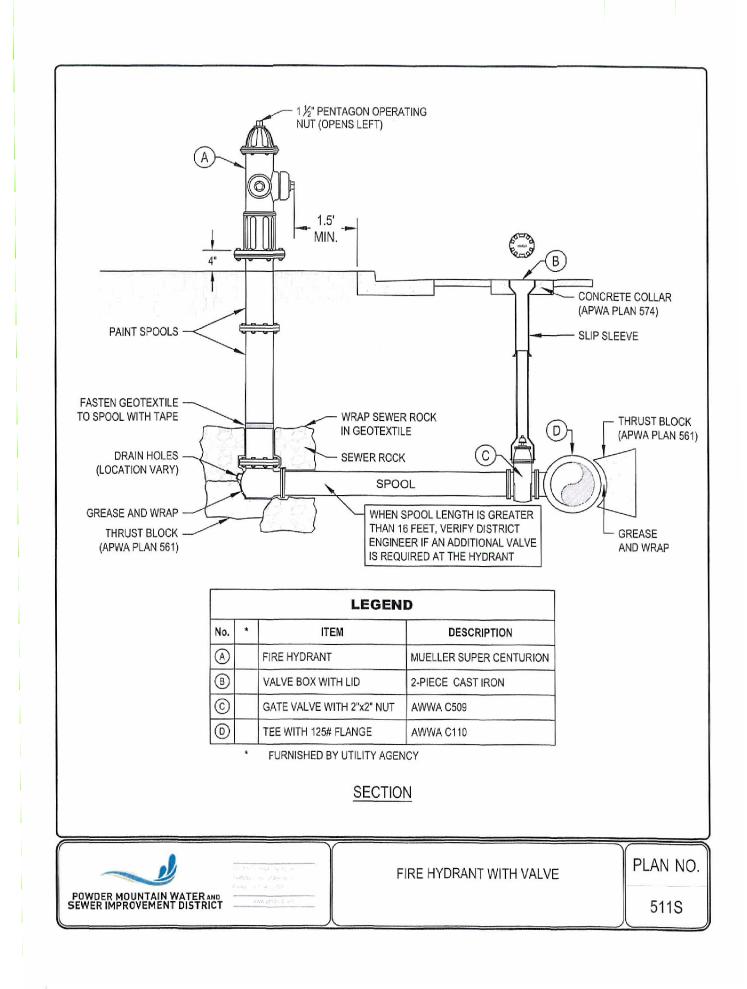


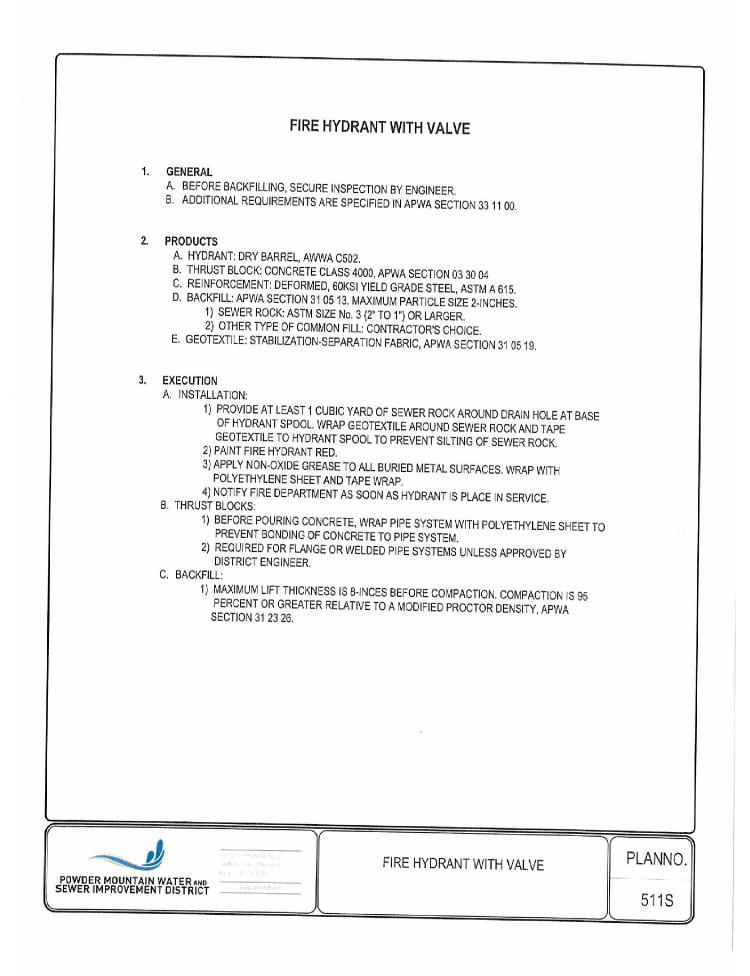
OJECT NO:	120138
SIGN BY:	JWS
AWN BY:	AWF
ECKED BY:	JWS
TE:	2/25/2024

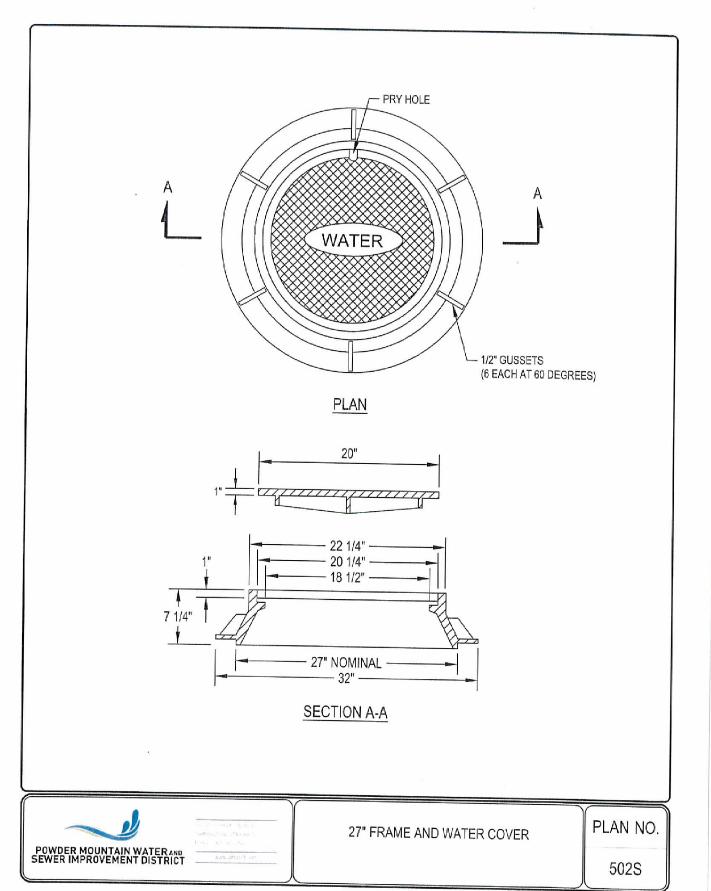


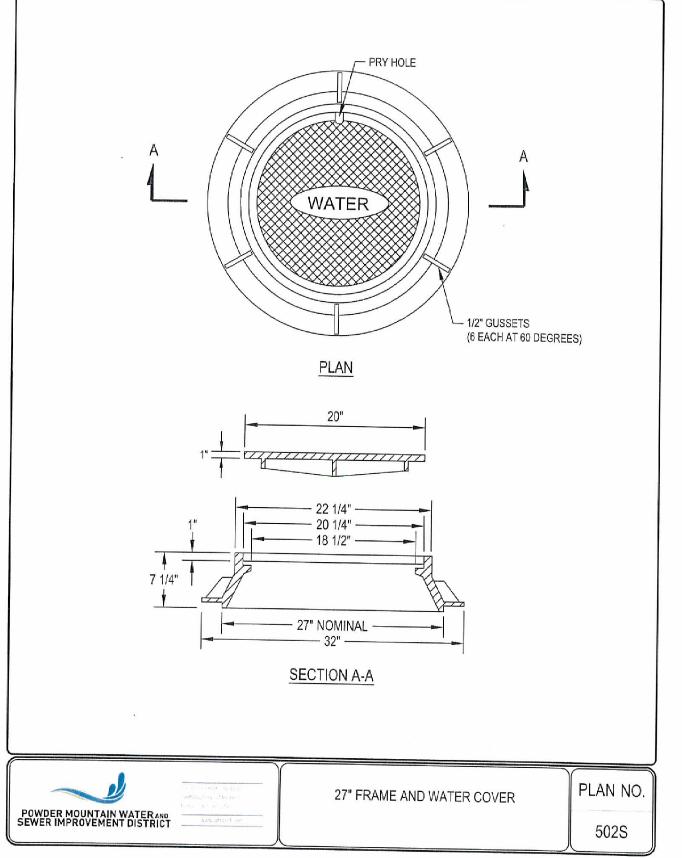
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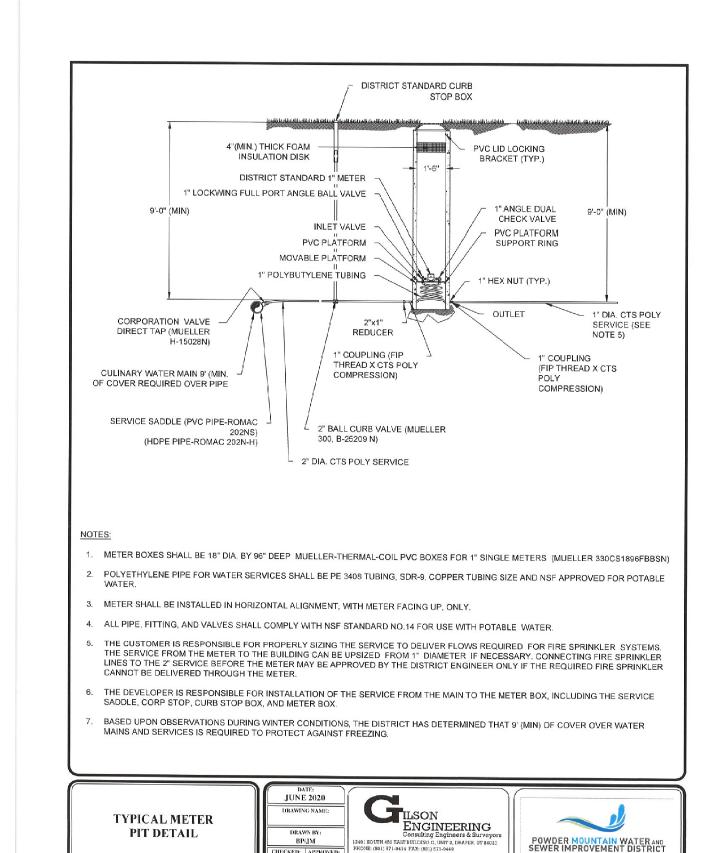


MICHAEL

Rev. # Rev. Date Rev. Desc.

PROJECT NO:	120138
DESIGN BY:	JWS
DRAWN BY:	AWF
CHECKED BY:	JWS
DATE:	3/3/2021

CIVIL DETAILS



Direct bearing thrust block

- A. Thrust design for pipe sizes or configurations not shown require special design.
- B. Bearing areas, volumes, and special thrust blocking details shown on Drawings take precedence over this plan.
- C. Restraint sizing is based upon a maximum operating pressure of 150 psi and a test pressure of 200 psi, and a minimum soil bearing strength of 2,000 psf. Operating pressures in excess of 150 psi or soils with less than 2,000 pound bearing strength will require special design.
- D. Before backfilling around thrust block, secure inspection of installation by ENGINEER.

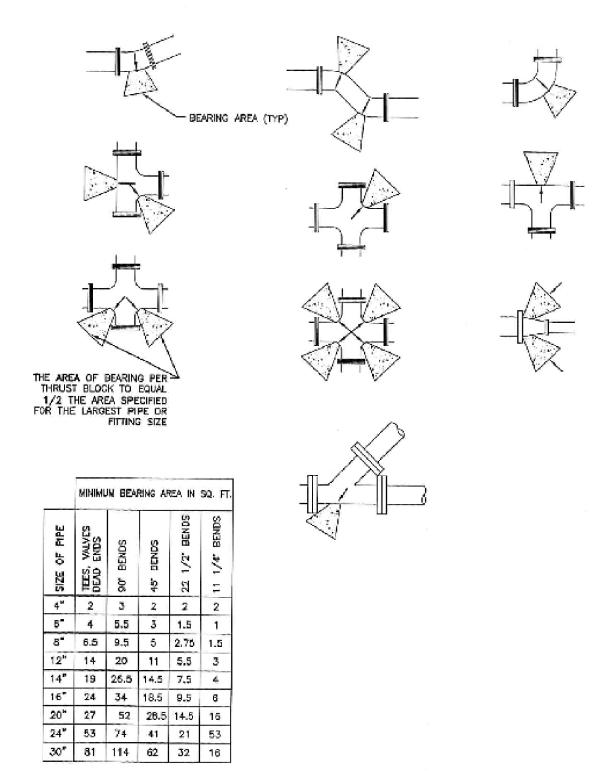
2. PRODUCTS

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
- C. Thrust Books: Concrete Class 4000, APWA Section 03 30 04. D. Grease: Non-oxide poly-FM.

3. EXECUTION

- A. Pour concrete against undisturbed soil.
- B. Pipe Joints: Do not cover with concrete. Leave completely accessible.
- C. Grease: Apply grease to all buried metal surfaces. Wrap with polyethylene sheet and tape wrap.
- D. Locking restraint devices may be used in conjunction with concrete thrust blocking (at discretion of ENGINEER).
- E. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

266



Direct bearing thrust block

August 2010

561

Direct bearing thrust block

GENERAL

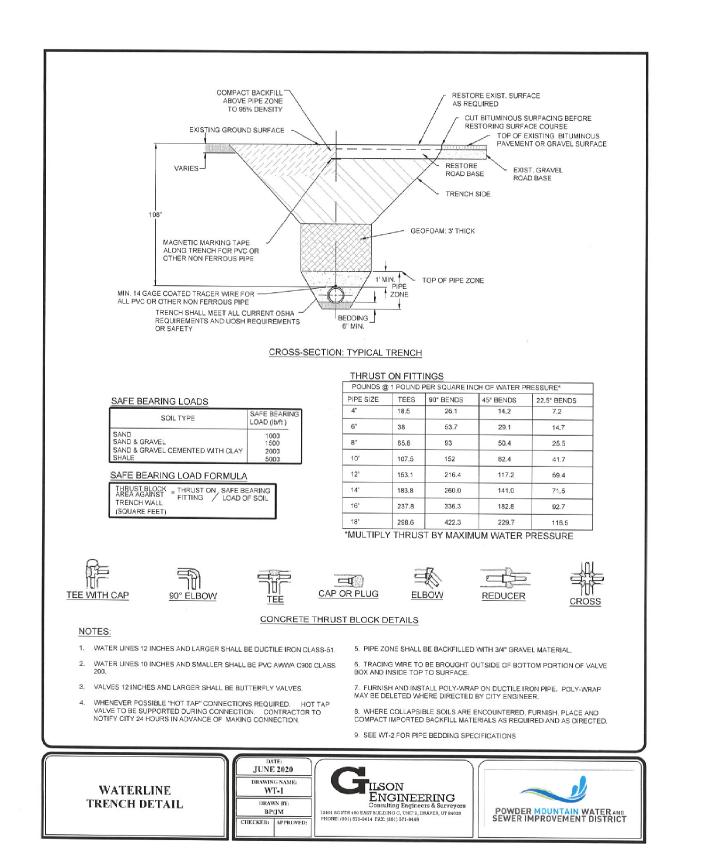
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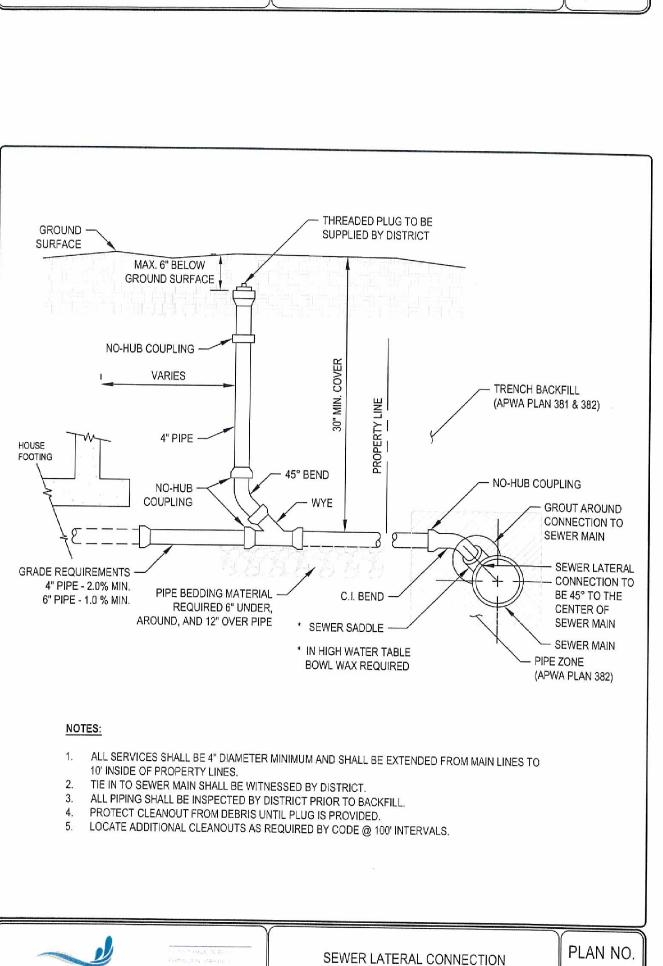


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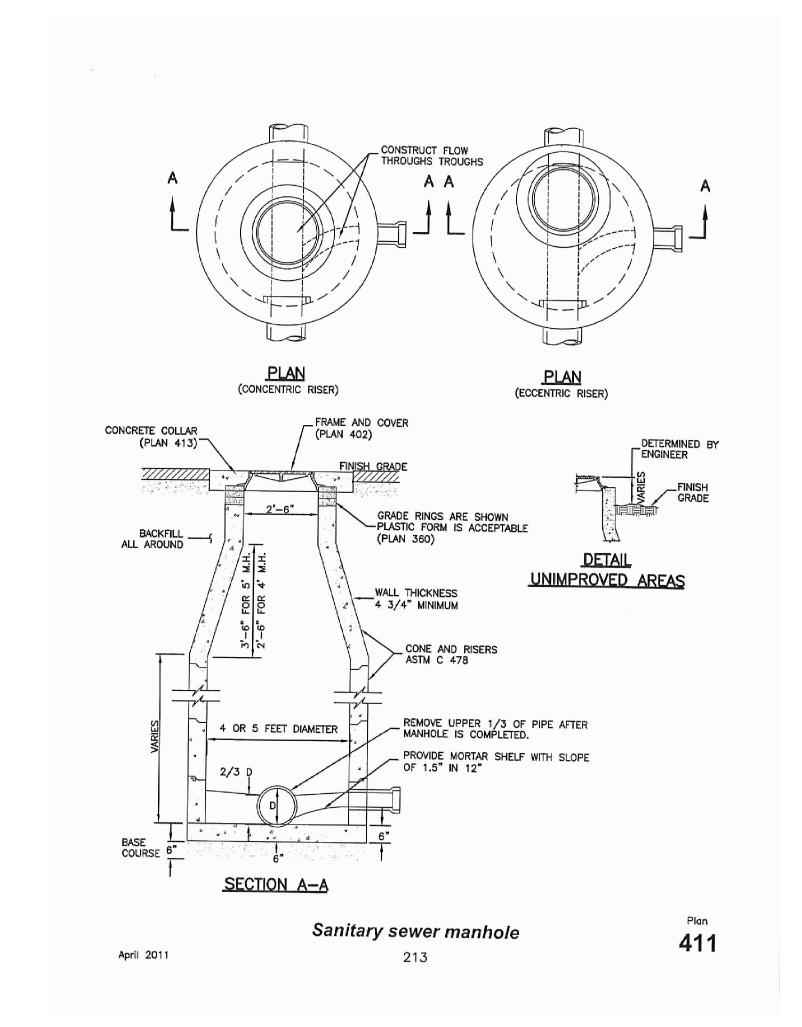
PROJECT NO:	120138
DESIGN BY:	JWS
DRAWN BY:	AWF
CHECKED BY:	JWS
DATE:	3/3/2021

CIVIL DETAILS

C-5.2



431S



Sanitary sewer manhole

1. GENERAL

A. The drawing shows typical pipe connections. Refer to construction drawings for connection locations or refer to field location of existing piping when engineering pipe connection to the manhole.

B. Manhole size.

1) Diameter is 4 feet: For sewers under 12" diameter.

2) Diameter is 5 feet: For sewers 12" and larger, or when 3 or more pipes intersect the manhole.

2. PRODUCTS

A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.

B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.

C. Concrete: Class 4000, APWA Section 03 30 04.

D. Riser and Reducing Riser: ASTM C 478.

E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A 615. F. Grout: 2 parts sand to 1 part cement mortar, ASTM C 1329.

G. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.

3. EXECUTION

A. Foundation Stabilization: Get ENGINEER's permission to use a sewer rock or a granular backfill borrow in a geotextile wrap to stabilize an unstable foundation.

B. Base Course Placement: APWA Section 32 11 23. Maximum lift thickness is 8inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.

C. Invert Cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.

D. Pipe Connections: Grout around all pipe openings.

E. Pipe Seal: Install rubber-based pipe seals on all plastic pipes when connecting

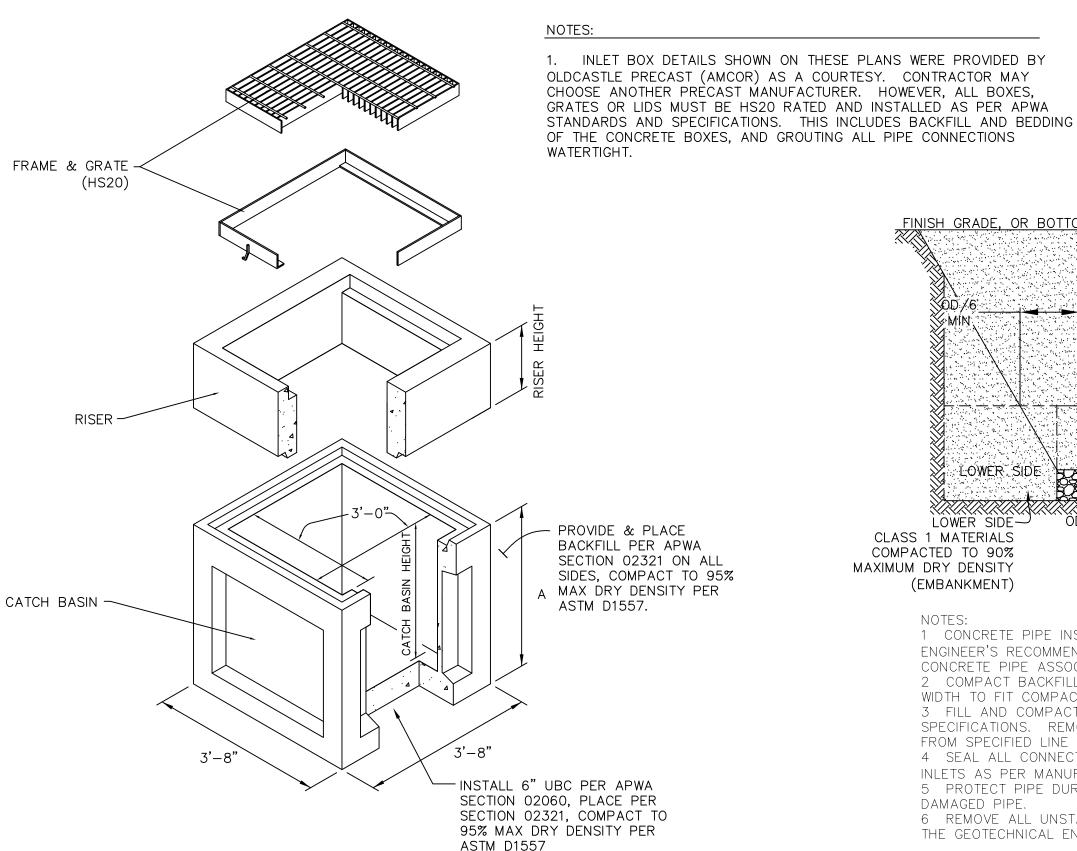
plastic pipes to manholes. Hold water-stop in place with stainless steel bands. F. Joints: Place flexible gasket-type sealant in all riser joints. Finish with grout.

G. Adjustment: If the required manhole adjustment is more than 1'-0", remove the cone and grade rings and adjust the manhole elevation with the appropriate manhole section, the cone section, and the grade rings or plastic form to make frame and lid match finish grade.

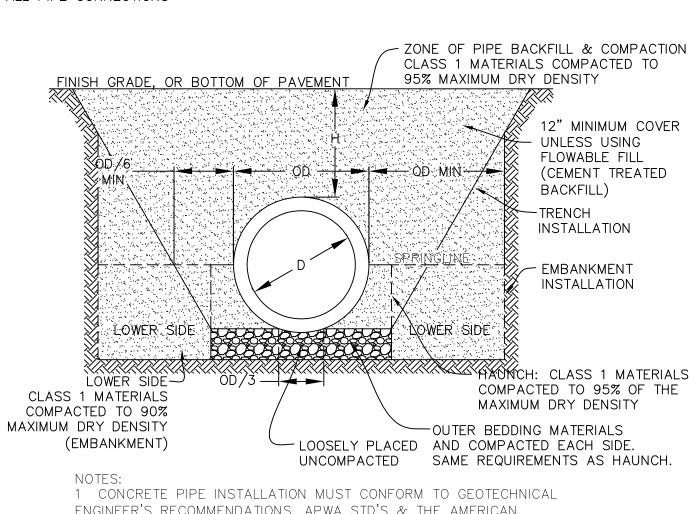
H Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.

Backfill: Provide backfill against the manhole shaft. Pea gravel and recycled RAP aggregate is NOT ALLOWED. Water jetting is NOT allowed. Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.

212



AMCOR PRECAST 3'X3' CATCH BASIN - ISOMETRIC VIEW



ENGINEER'S RECOMMENDATIONS, APWA STD'S & THE AMERICAN CONCRETE PIPE ASSOCIATION DESIGN MANUAL. 2 COMPACT BACKFILL AS SHOWN PROVIDE SUFFICIENT TRENCH

WIDTH TO FIT COMPACTION EQUIPMENT. 3 FILL AND COMPACT HAUNCH AREAS UNDER PIPE ACCORDING TO SPECIFICATIONS. REMOVE ANY VOIDS WITHOUT DISTURBING THE PIPE FROM SPECIFIED LINE AND GRADE.

4 SEAL ALL CONNECTIONS TO JUNCTION BOXES, MANHOLES AND INLETS AS PER MANUFACTURER'S RECOMMENDATIONS. 5 PROTECT PIPE DURING CONSTRUCTION. REMOVE AND REPLACE

DAMAGED PIPE. 6 REMOVE ALL UNSTABLE OR UNYIELDING SOILS AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

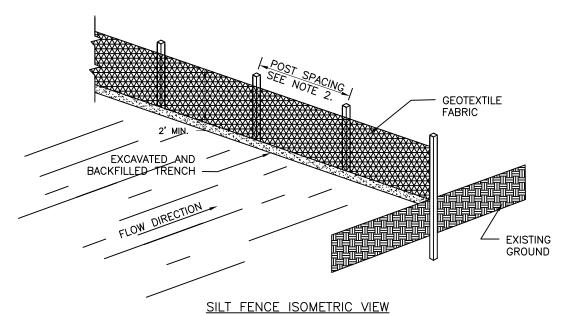
CONCRETE PIPE TRENCH DETAIL (ONSITE PIPE/TYPE 1 INSTALLATION)

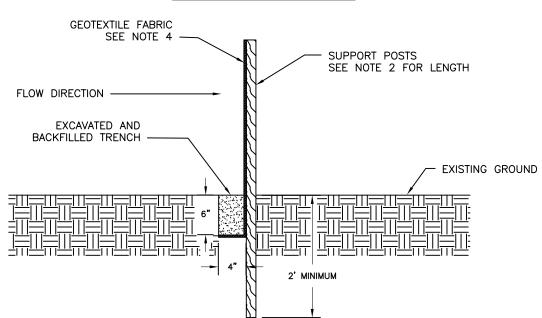
Rev. # Rev. Date Rev. Desc.

PROJECT NO: 120138 DESIGN BY: JWS DRAWN BY: AWF CHECKED BY: JWS 3/3/2021

CIVIL DETAILS

POWDER MOUNTAIN WATER AND SEWER IMPROVEMENT DISTRICT





SILT FENCE TYPICAL SECTION

- 1. THE GEOTEXTILE FABRIC SHALL BE PLACED IN THE EXCAVATED TRENCH, BACKFILLED, AND COMPACTED TO THE EXISTING GROUND SURFACE.
- 2. WOODEN SUPPORT POSTS SHALL BE A MINIMUM DIMENSION OF $1-1/8" \times 1-1/8"$ AIR OR KILN DRIED OF HICKORY OR OAK AND 4 FEET LONG. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.3 POUNDS PER LINEAL FOOT AND 5 FEET LONG. POST SPACING SHALL BE A MAXIMUM OF 8 FEET FOR WOVEN FABRIC AND 3 FEET FOR NON-WOVEN FABRIC.
- 3. THE GEOTEXTILE FABRIC SHALL BE ATTACHED DIRECTLY TO THE UPSLOPE SIDE OF WOODEN POSTS WITH 0.5 INCH STAPLES IN AT LEAST 3 PLACES, OR WITH WOODEN LATH AND NAILS. ATTACHMENT TO STEEL POSTS WILL BE BY WIRE FASTENERS OR 50 POUND PLASTIC TIE STRAPS ON THE UPSLOPE SIDE.
- 4. THE GEOTEXTILE FABRIC SHALL CONSIST OF EITHER WOVEN OR NON-WOVEN POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE. NON-WOVEN FABRIC MAY BE NEEDLE PUNCHED, HEAT BONDED, RESIN BONDED, OR COMBINATIONS THEREOF. ALL FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:

OLLOWING REGUNEWEITIO.		
TEST REQUIREMENT	<u>METHOD</u>	<u>VALUE</u> *
MINIMUM GRAB TENSILE STRENGTH IN THE MACHINE DIRECTION	ASTM D 4632	120 LBS.
MINIMUM GRAB TENSILE STRENGTH IN THE CROSS MACHINE DIRECTION	ASTM D 4632	100 LBS.
MAXIMUM APPARENT OPENING SIZE EQUIVALENT STANDARD SIEVE	ASTM D 4751	NO. 30
MINIMUM PERMITTIVITY	ASTM D 4491	0.05 SEC -1
MAXIMUM PERMITTIVITY	ASTM D 4491	-1 0.135 SEC OR 10 gpm/sq ft at 50 mm constant head.
MINIMUM ULTRAVIOLET STABILITY PERCENTAGE OF STRENGTH RETAINED AFTER 500 HOURS OF EXPOSURE	ASTM D 4355	70%

* ALL NUMERICAL VALUES REPRESENT MINIMUM/MAXIMUM AVERAGE ROLL VALUES. (FOR EXAMPLE, THE AVERAGE OF MINIMUM TEST RESULTS ON ANY ROLL IN A LOT SHOULD MEET OR EXCEED THE MINIMUM SPECIFIED VALUES.)



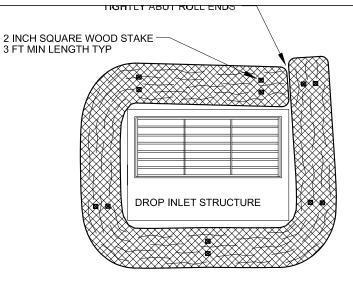
NON-IRRIGATED EROSION CONTROL SEED MIX

COMMON NAME	LB/LIVE SEED/ACRE	
SLENDER WHEATGRASS	3.00	
INDIAN RICEGRASS-NEZPAR	3.00	
BLUEBUNCH WHEATGRASS	3.00	
SANDBERG BLUEGRASS	0.50	
FOURWING SALTBRUSH	1.00	
ANTELOPE BITIERBRUSH	1.00	
MOUNTAIN BIG SAGE	1.00	
	TOTAL 10.50 LB/	'ACRE

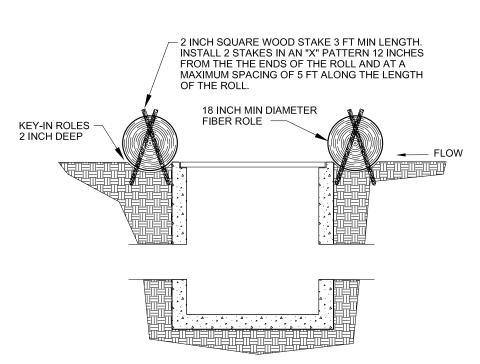
NON-IRRIGATED WILDFLOWER SEED MIX

COMMON NAME	LB/LIVE SEED/ACRE
GLOBEMALLOW-GOOSEBERRY LEAF	0.50
ROCKY MOUNTAIN BEEPLANT	2.00
SULFUR FLOWER	2.00
SCARLET GILIA	1.00
NORTHERN SWEETVETCH	0.50
MAPLE GROVE BLUE FLAX	0.50
WHITE EVENING PRIMROSE	0.50
PALMER PENSTEMON	0.50
WASATCH PENSTEMON	0.50
SCARLET GLOBEMALLOW	0.50
	TOTAL 8.50 LB/ACRE

LONG TERM EROSION CONTROL SEED MIX

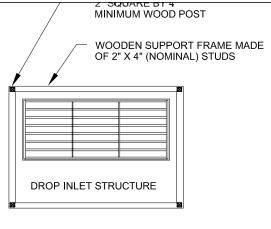


DROP INLET BARRIER PLAN

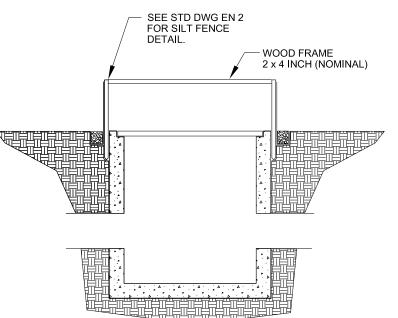


SECTION

- 1. KEY-IN FIBER ROLLS 2 INCH DEEP AROUND THE PERIMETER OF THE DROP INLET STRUCTURE AND STAKE AS SHOWN.
- 2. OVERLAP THE ENDS OF THE FIBER ROLL AT LEAST 18 INCHES. 3. CONSTRUCT ROLLS IN MEDIAN AREAS SO THAT THE TOPS OF THE ROLLS
- ARE NOT HIGHER THAN THE ADJACENT ROADWAY. 4. MAINTAIN A PROPERLY FUNCTIONING FIBER LOG BARRIER THROUGHOUT CONSTRUCTION OR UNTIL DISTURBED AREAS
- CONTRIBUTING TO THE INLET HAVE BEEN PAVED OR VEGETATED. 5. REMOVE SEDIMENT AS IT ACCUMULATES AND PLACE IT IN A STABLE AREA APPROVED BY THE CITY, OR REMOVE FROM PROJECT.

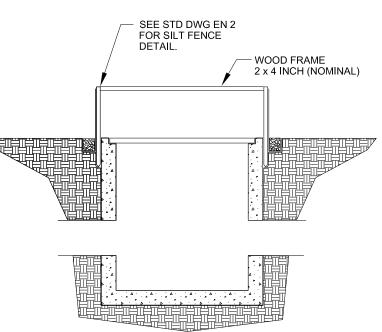


SILT FENCE DROP INLET BARRIER PLAN



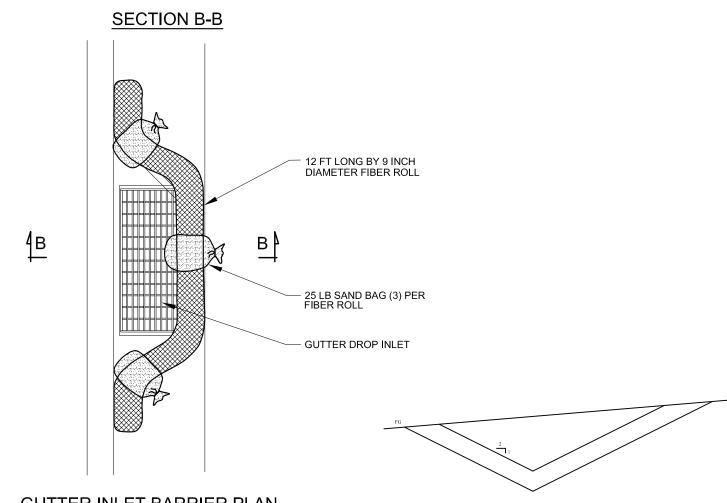
SECTION

- 1. ENTRENCH THE BOTTOM 18 INCH OF SILT FENCE SECURELY IN THE
- 2. DRIVE POSTS AT EACH CORNER OF THE INLET STRUCTURE. PLACE ANOTHER POST(S) BETWEEN THEM IF THE DISTANCE BETWEEN CORNER POSTS EXCEEDS 4 FT. 3. CROSS-BRACE THE TOPS OF ALL POSTS WITH A WOODEN FRAME
- MADE OF 2 x 4 STUDS. USE NAILS OR SCREWS FOR FASTENING. 4. CONSTRUCT SILT FENCE IN MEDIAN AREAS SO THAT THE TOPS OF THE SILT FENCE ARE NOT HIGHER THAN THE ADJACENT ROADWAY.
- 5. MAINTAIN A PROPERLY FUNCTIONING SILT FENCE BARRIER THROUGHOUT CONSTRUCTION OR UNTIL DISTURBED AREAS CONTRIBUTING TO THE INLET HAVE BEEN PAVED OR VEGETATED.
- 6. REMOVE SEDIMENT AS IT ACCUMULATES AND PLACE IT IN A STABLE AREA APPROVED BY THE CITY, OR REMOVE FROM PROJECT.



- 3. MAINTAIN A PROPERLY FUNCTIONING GUTTER INLET BARRIER THROUGHOUT
- CONSTRUCTION OR UNTIL DISTURBED AREAS CONTRIBUTING TO THE INLET HAVE BEEN PAVED OR VEGETATED. 4. REMOVE SEDIMENT AS IT ACCUMULATES AND PLACE IT IN A STABLE AREA





- 25 LB SAND BAG

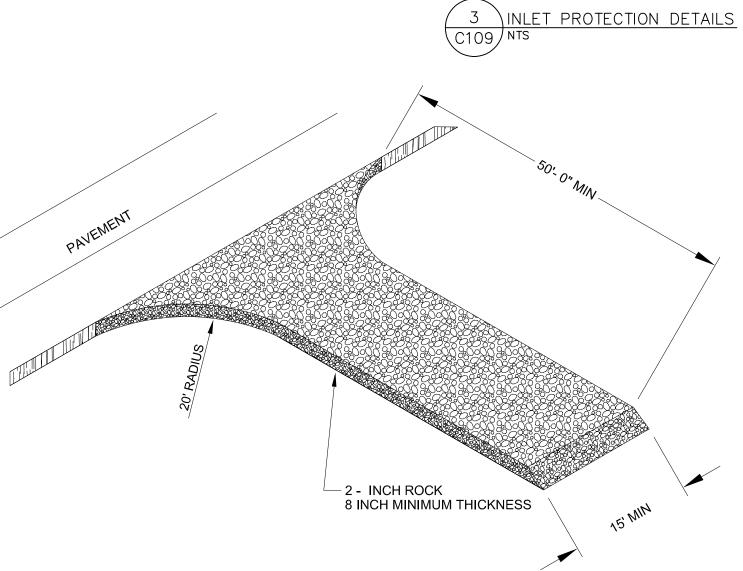
GUTTER INLET BARRIER PLAN

NOTES FOR GUTTER INLET BARRIER:

- 1. PLACE FIBER ROLL AND SAND BAGS AS SHOWN AROUND GUTTER INLETS AND AVOID PLACING THE BARRIER IN THE TRAVEL LANE.

 2. USE GUTTER INLET BARRIERS ONLY WHERE THERE IS THE POTENTIAL OF SEDIMENT FROM NON-STABILIZED AREAS GETTING INTO THE INLET.
- APPROVED BY THE CITY, OR REMOVE FROM PROJECT



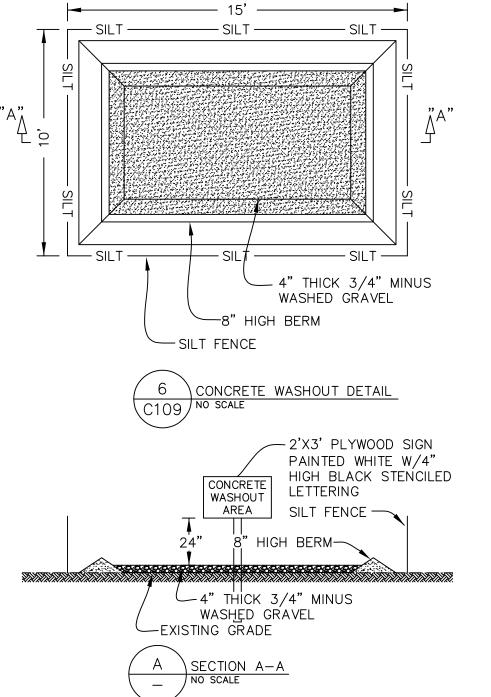


STABILIZED CONSTRUCTION ENTRANCE



NOTES FOR STABLILIZED CONSTRUCTION ENTRANCE:

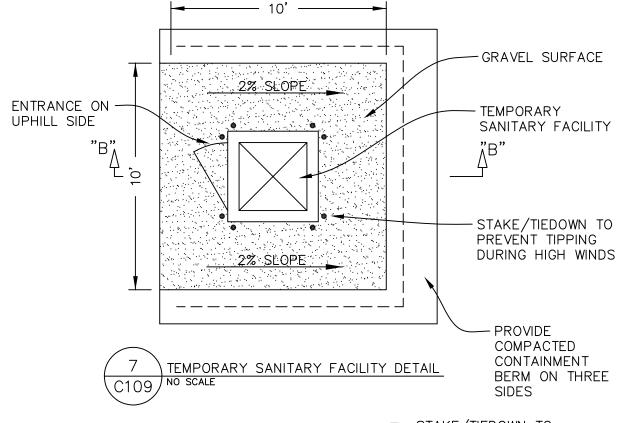
- 1. PLACE STABILIZED CONSTRUCTION ENTRANCES AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 2. MAINTAIN A PROPERLY FUNCTIONING CONSTRUCTION ENTRANCE THROUGHOUT CONSTRUCTION OR UNTIL DISTURBED AREAS HAVE BEEN PAVED.
- 3. DO NOT ALLOW VEHICLES LEAVING THE CONSTRUCTION SITE TO TRACK MUD ONTO PAVED ROADS.

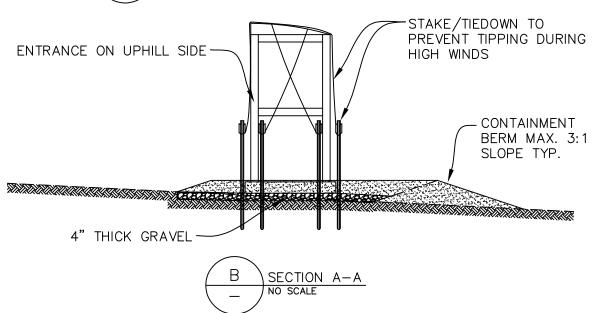


DO NOT WASH OUT CONCRETE INTO STORM DRAINS, OPEN DITCHES, STREETS OR STREAMS

WHEN WASHING CONCRETE TO REMOVE FINE PARTICLES, AVOID CREATING RUNOFF, ONLY WASH CONCRETE EQUIPMENT IN DESIGNATED

INSPECT AND MAINTAIN CONCRETE WASHOUT AREA WEEKLY AND REMOVE HARDENED CONCRETE ON A REGULAR BASIS.





PORTABLE TOILETS MUST BE MAINTAINED IN GOOD WORKING ORDER WITH DAILY OBSERVATION FOR LEAK DETECTION

REGULAR WASTE COLLECTION MUST BE ARRANGED WITH LICENSED SERVICE.

ALL WASTE COLLECTION MUST BE DEPOSITED IN A SANITARY SEWER SYSTEM FOR TREATMENT WITH APPROPRIATE AGENCY APPROVAL



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CIVIL DETAILS