

SHELLY PARK RESTROOM

CITY OF SPARKS

SPARKS, WASHOE COUNTY, NEVADA 89434

PWP# WA-2023-329
 BID# 22/23-034

OWNER/DEVELOPER

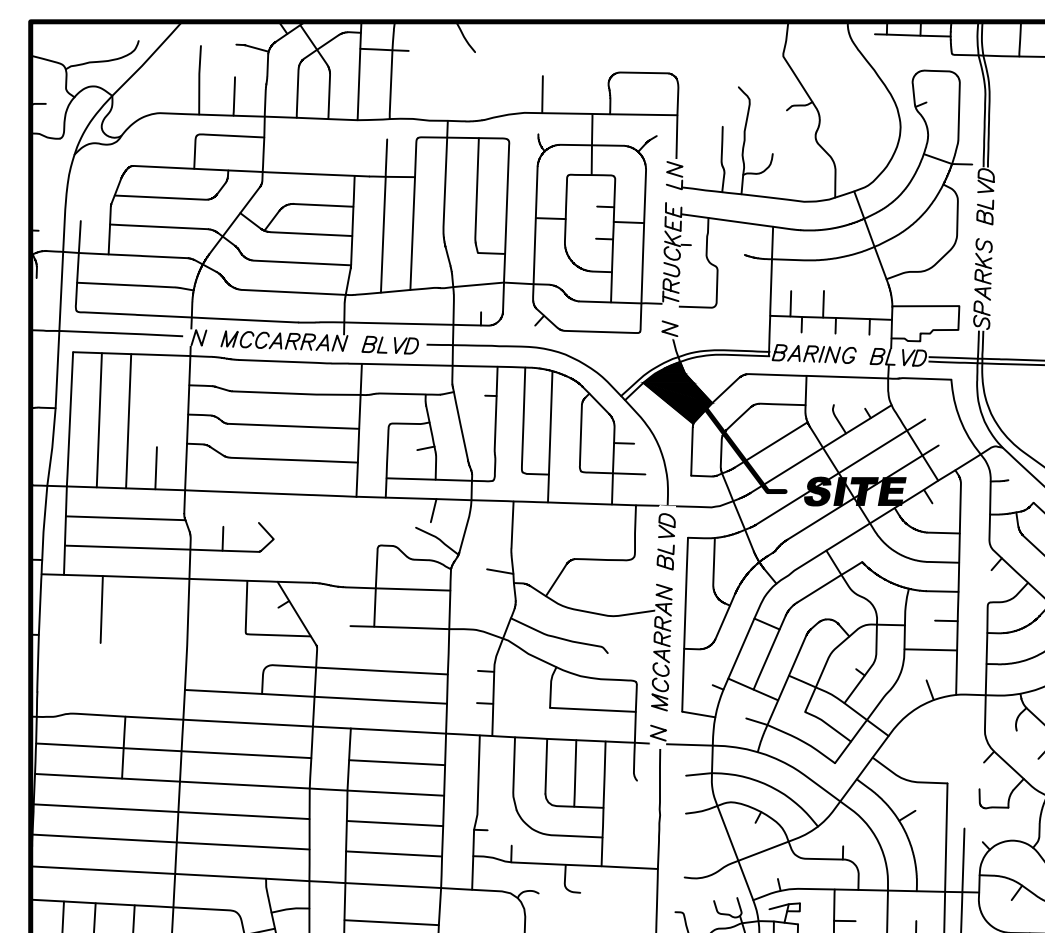
CITY OF SPARKS
 431 PRATER WAY
 SPARKS, NEVADA 89431
 (775) 353-2345

DESIGN ENGINEER

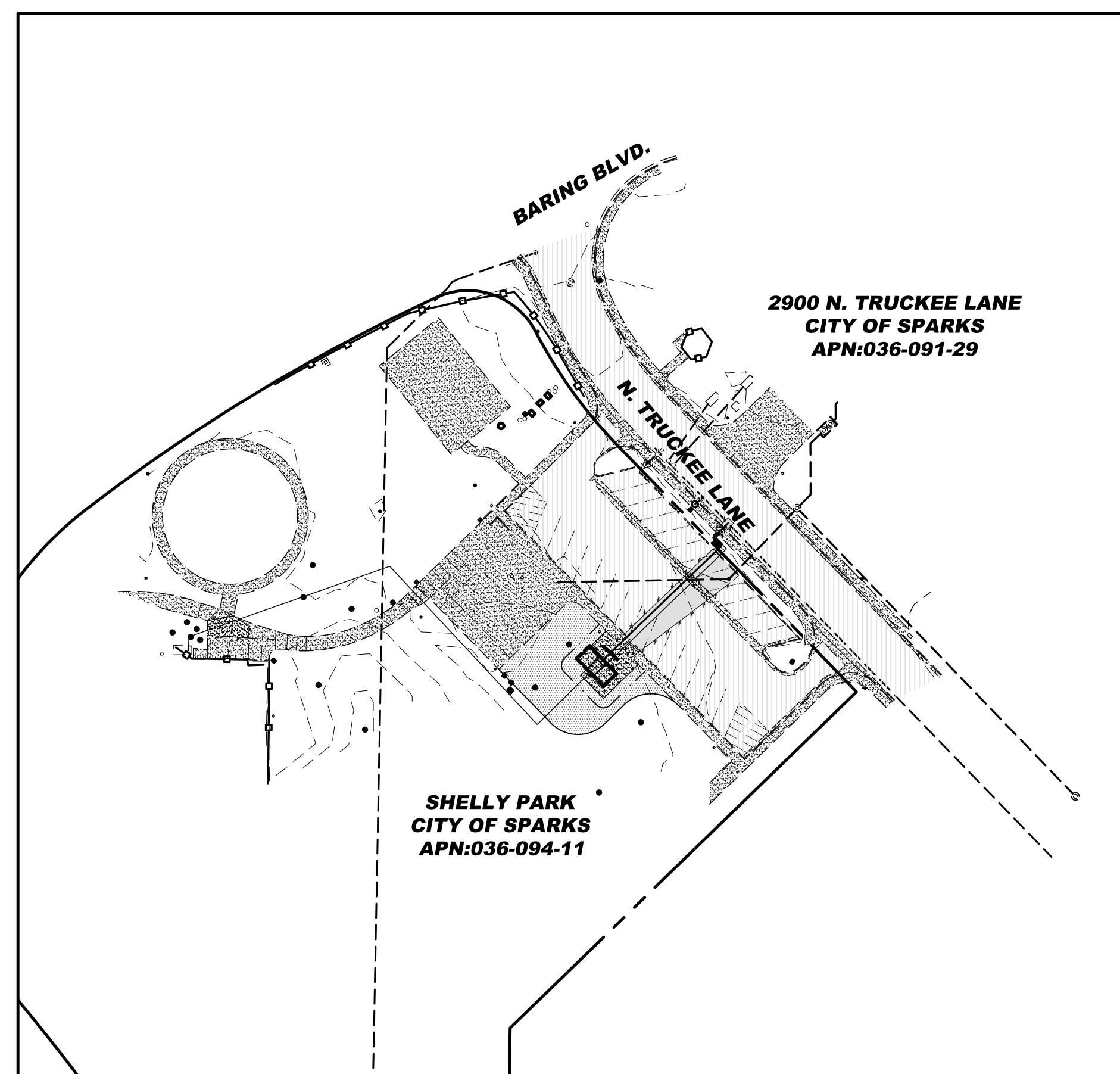
ODYSSEY ENGINEERING INC.
 895 ROBERTA LANE, SUITE 104
 RENO, NEVADA 89431
 (775) 359-3303

LIST OF ABBREVIATIONS

A.C.	ASPHALTIC CONCRETE
B.C.	BEGIN CURVE
B.V.C.	BEGIN VERTICAL CURVE
B.S.	BACK OF SIDEWALK
C.B.	CATCH BASIN
CL	CENTERLINE
CH	CHORD
C.M.P.	CORRUGATED METAL PIPE
CONC.	CONCRETE
CONST.	CONSTRUCT
C.P.	CONCRETE PIPE
D.I.	DROP INLET
DET.	DETAILS
ELEV.	ELEVATION
E.C.	END OF CURVE
E.V.C.	END VERTICAL CURVE
EXIST.	EXISTING
E.G.	EXISTING GRADE
F.F.	FINISH FLOOR
F.F.C.	FRONT FACE CURB
F.G.	FINISH GRADE
F.H.	FIRE HYDRANT
FL	FLOW LINE
G	GAS
G.B.	GRADE BREAK
HORIZ.	HORIZONTAL
INT.	INTERSECTION
I.E.	INVERT ELEVATION
L.T.	LEFT
L	LENGTH
L.F.	LINEAL FEET
M.H.	MANHOLE
P.	PAD ELEVATION
P.I.	POINT OF INTERSECTION
P.R.C.	POINT OF REVERSE CURVATURE
P.O.T.	POINT OF TANGENT
P.V.C.	POLYVINYL CHLORIDE PIPE
PL	PROPERTY LINE
R	RADIUS
REF.	REFERENCE
RET.	RETURN
R.C.P.	REINFORCED CONCRETE PIPE
RT	RIGHT
R/W	RIGHT OF WAY
S.S.	SANITARY SEWER
S.W.	SIDEWALK
SHT.	SHEET
STA.	STATION
S.D.	STORM DRAIN
T	TANGENT
T.C.	TOP OF CURB
T.P.	TOP OF PAVEMENT
TYP.	TYPICAL
VERT.	VERTICAL
V.C.	VERTICAL CURVE
V.P.I.	VERTICAL POINT OF INTERSECTION
W	WATER



VICINITY MAP



CITY OF SPARKS APPROVAL:

[Signature] 4/10/23
 JON R. ERICSON, P.E., P.T.O.E. DATE:
 CITY ENGINEER

CIVIL SHEET INDEX

- 1TITLE SHEET
- 2SITE & GRADING
- 3DETAILS

ELECTRICAL SHEET INDEX

- E001GENERAL ELECT. SPECS
- E101SITE ELECTRICAL PLAN (EXISTING)
- E201SITE ELECTRICAL PLAN (PROPOSED)
- E301SINGLE-LINE DIAGRAM

TMWA SHEET INDEX

- 1WATER PLANS
- 2WATER DETAILS

CIVIL ENGINEER



NOTE:

THE DEVELOPER SHALL COMPLY WITH THE CONSTRUCTION HOURS INCLUDED IN THE CITY OF SPARKS AND WASHOE COUNTY DEVELOPMENT HANDBOOK. THE DEVELOPER SHALL INSTALL SIGNS AT ALL ACCESS POINTS OF THE PROJECT THAT CLEARLY INDICATE THE HOURS OF ACTIVITY ON-SITE PRIOR TO THE START OF ANY CONSTRUCTION-RELATED ACTIVITIES TO THE APPROVAL OF THE ADMINISTRATOR. THE DEVELOPER SHALL MAINTAIN THESE SIGNS IN GOOD REPAIR FOR THE DURATION OF THE CONSTRUCTION OF THE PROJECT. ONCE CONSTRUCTION IS FINISHED, THE DEVELOPER SHALL REMOVE THESE SIGNS.

SPECIFICATIONS

ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS, AND THE LATEST STANDARD DETAILS, FOR PUBLIC WORKS CONSTRUCTION (2012 EDITION AND ANY APPURTENANT SUPPLEMENTS) SPONSORED AND DISTRIBUTED BY RENO, SPARKS, AND WASHOE COUNTY.

ENGINEER'S CERTIFICATE

THESE PLANS, SHEETS 1 OF 3 THROUGH 3 OF 3, HAVE BEEN PREPARED IN ACCORDANCE WITH THE CITY COUNCIL CONDITIONS OF APPROVAL AND CITY CODE. IN THE EVENT OF CONFLICT BETWEEN ANY PORTION OF THESE PLANS AND CITY CODE, CITY STANDARDS SHALL PREVAIL.

[Signature]

TRAVIS C. PAGE

P.E. #28825

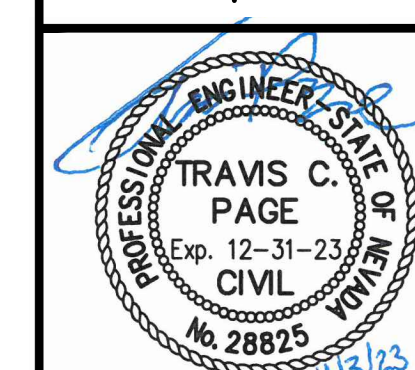
REV.	DATE	DESCRIPTION	BY	APP'D

DATE: APRIL 2023	DESIGNED BY: TCP	CHECKED BY: TCP
DRAWN BY: ACAD 2023		

PERMIT PLANS
 CITY OF SPARKS
 SHELLY PARK RESTROOM
 TITLE SHEET
 SPARKS WASHOE NEVADA

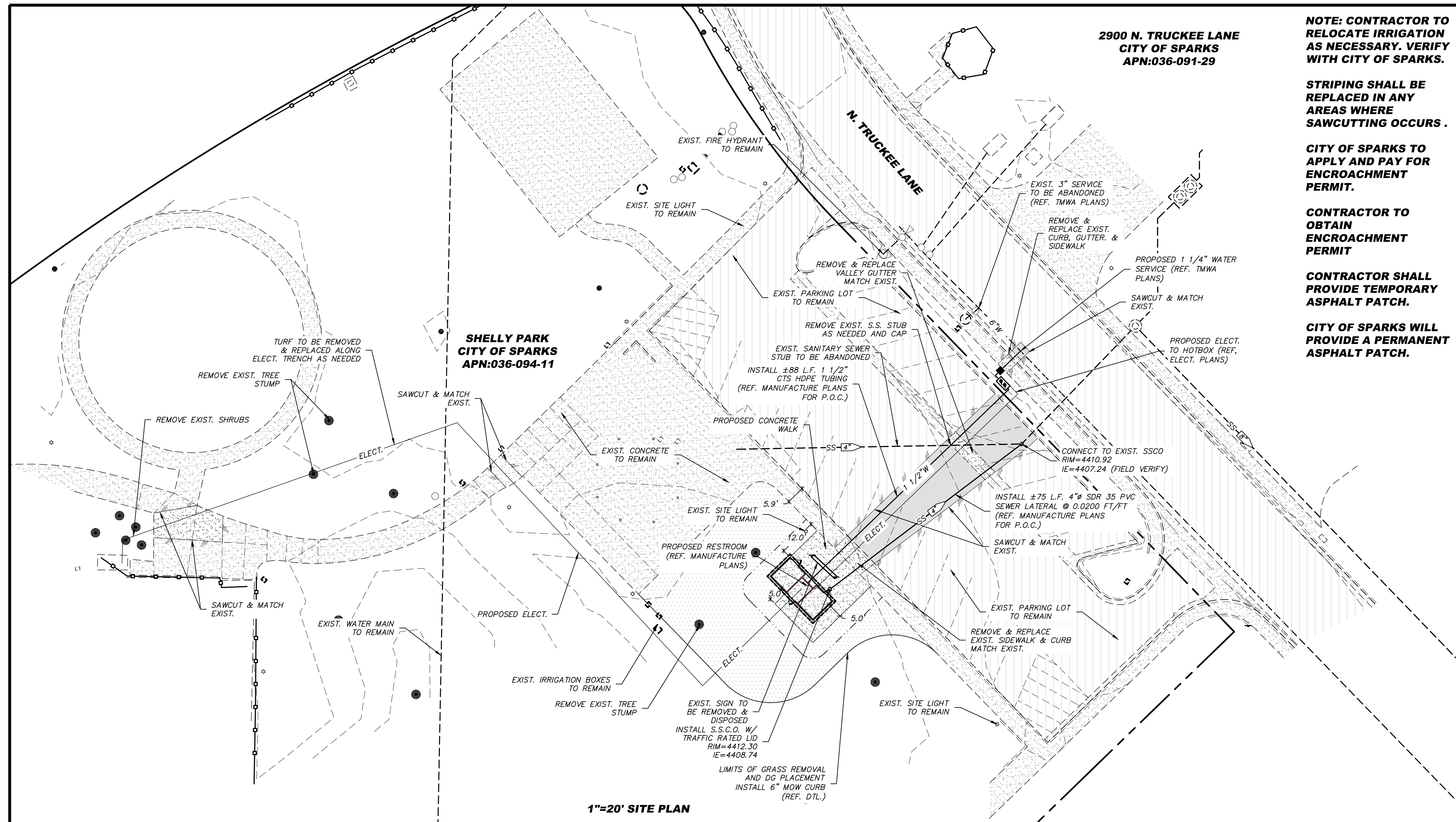
895 ROBERTA LANE, SUITE 104, SPARKS, NV 89431
 (775) 369-3303 FAX (775) 359-3329
 ODYSSEYRENO.COM

odyssey ENGINEERING INCORPORATED



SCALE	HORIZ. AS SHOWN
VERT.	—
JOB NO.	XXXX
SHEET	1
	OF
	3





2900 N. TRUCKEE LANE
CITY OF SPARKS
APN:036-091-29

NOTE: CONTRACTOR TO RELOCATE IRRIGATION AS NECESSARY. VERIFY WITH CITY OF SPARKS.

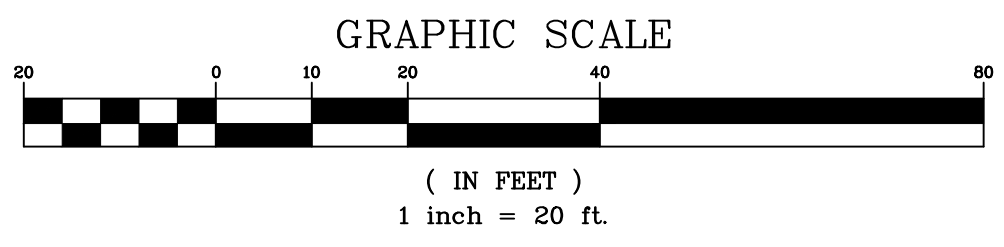
STRIPING SHALL BE REPLACED IN ANY AREAS WHERE SAWCUTTING OCCURS.

CITY OF SPARKS TO APPLY AND PAY FOR ENCROACHMENT PERMIT.

CONTRACTOR TO OBTAIN ENCROACHMENT PERMIT

CONTRACTOR SHALL PROVIDE TEMPORARY ASPHALT PATCH.

CITY OF SPARKS WILL PROVIDE A PERMANENT ASPHALT PATCH.



GRADING NOTES:

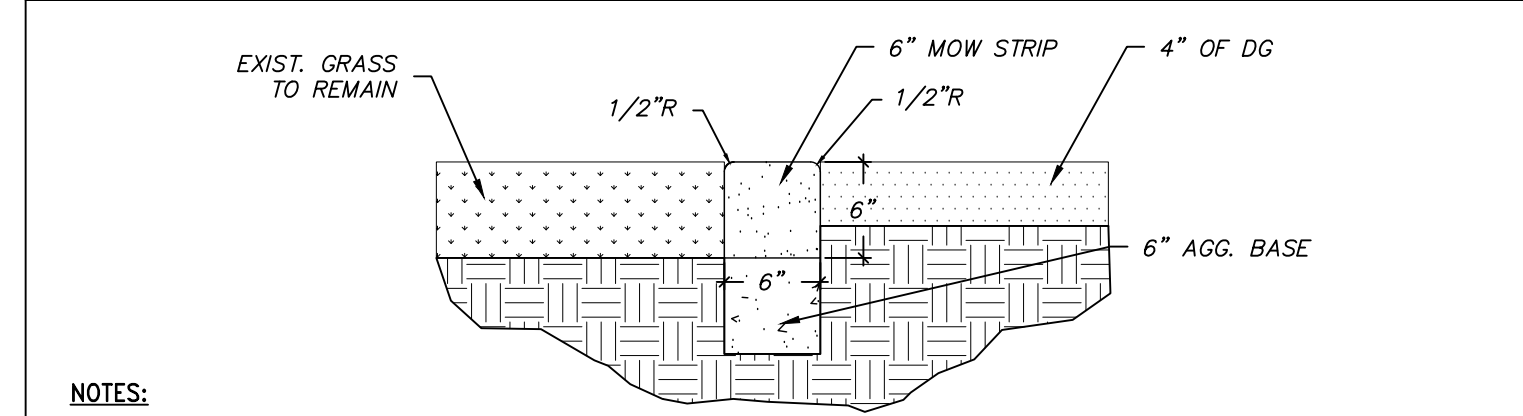
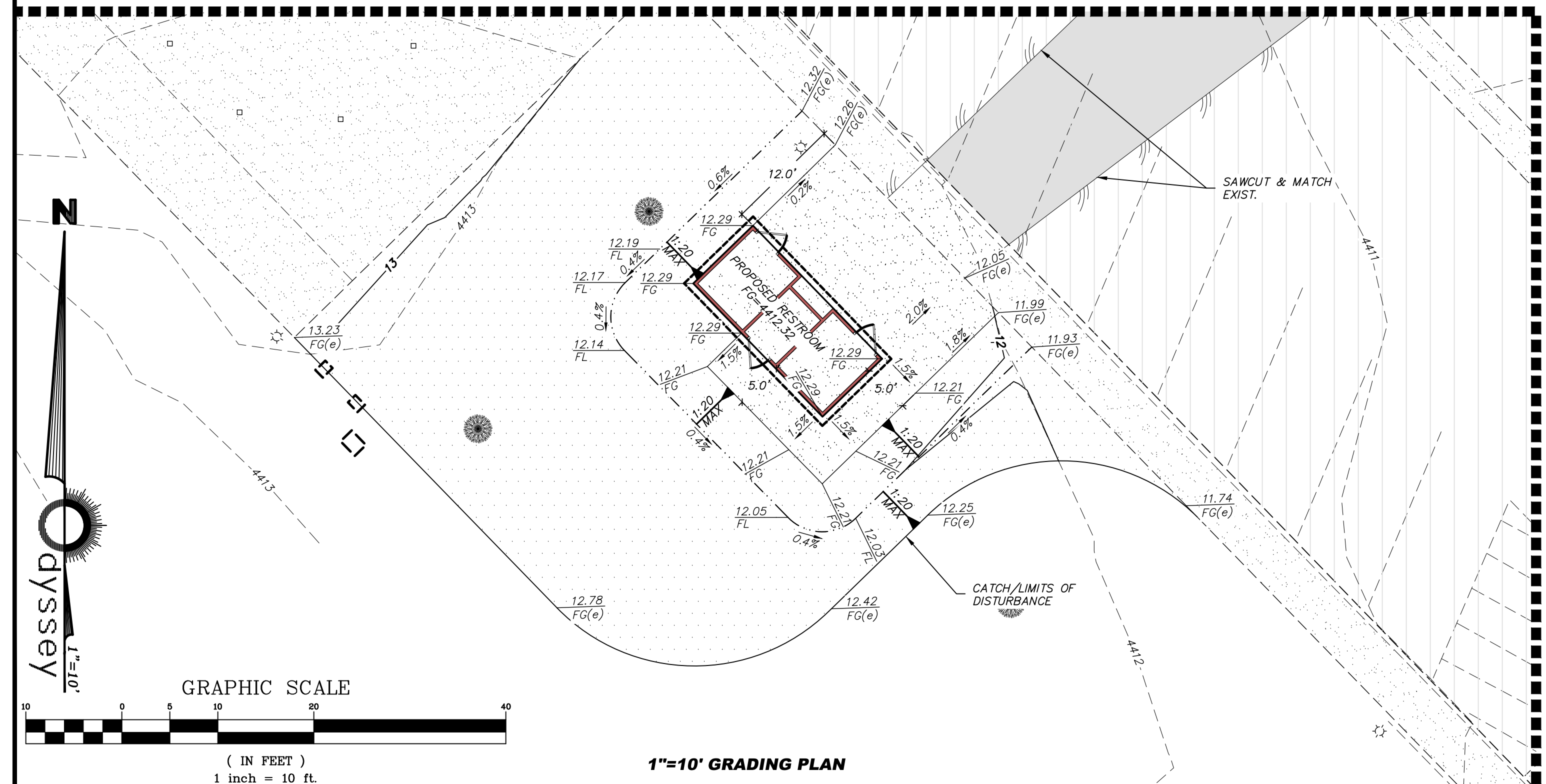
1. ALL CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS, AND THE LATEST STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION 2016 EDITION (AND ANY APPURTENANT SUPPLEMENTS) SPONSORED AN DISTRIBUTED BY RENO, SPARKS, AND WASHOE COUNTY.
2. THE CONTRACTOR SHALL MAINTAIN A DUST CONTROL PROGRAM, INCLUDING WATERING OF OPEN AREAS. THE CONTRACTOR SHALL ALSO MAINTAIN CONFORMITY WITH SECTION 040.030 OF THE WASHOE COUNTY AIR POLLUTION REGULATIONS.
3. THE CONTRACTOR SHALL VERIFY IN FIELD, ALL ELEVATIONS, DIMENSIONS, FLOW LINES, EXISTING CONDITIONS, AND POINT OF CONNECTION WITH ADJOINING PROPERTY (PUBLIC OR PRIVATE). ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES FOR LOCATIONS OR POT-HOLING PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION DEBRIS PER FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.
5. ALL UNDERGROUND UTILITIES SHOWN HEREON WERE TAKEN FROM SURFACE EVIDENCE AND AVAILABLE UTILITY COMPANY RECORDS. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD. ODYSSEY ENGINEERING INC. ASSUMES NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF SUCH RECORDS.
6. THE CONTRACTOR SHALL MAINTAIN AN ON-GOING PROCESS OF REMOVAL OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.
7. LAND GRADING SHALL BE DONE IN A METHOD TO PREVENT DUST FROM TRAVERSING THE PROPERTY LINE.
8. ALL REQUIRED UTILITY SHUT-DOWNS SHALL BE COORDINATED WITH APPROPRIATE UTILITY COMPANY AND OWNERS PERSONNEL.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE, PERMIT AND IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN IN CONFORMANCE WITH FEDERAL, STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN EXISTING E.M.P. IMPROVEMENTS THAT ARE IN PLACE, AND SHALL PROVIDE AND MAINTAIN ADDITIONAL E.M.P.'S AS REQUIRED TO IMPLEMENT HIS S.W.P.P.
10. THE CONTRACTOR SHALL OBTAIN AND THE OWNER SHALL PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
11. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE SOILS ENGINEER, NEVADA ENERGY, CITY OF SPARKS, AND THE TRUCKEE MEADOWS WATER AUTHORITY 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
12. ADD 4400 FEET TO ALL TRUNCATED ELEVATIONS.
13. THE NATURAL VEGETATION AND EXISTING LANDSCAPING SHALL BE PRESERVED AS MUCH AS PRACTICAL DURING SITE IMPROVEMENTS CONSTRUCTION.
14. SLOPES STEEPER THAN 3:1 SHALL BE MECHANICALLY STABILIZED WITH RIP-RAP.
15. ANY ACCESS OR UNSUITABLE MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH THE LATEST CITY OF SPARKS REGULATIONS OR IN APPROVED AREAS.

UTILITY NOTES:

1. THE CONTRACTOR SHALL MAINTAIN A DUST CONTROL PROGRAM, INCLUDING WATERING OF OPEN AREAS. THE CONTRACTOR SHALL ALSO MAINTAIN CONFORMITY WITH SECTION 040.030 OF THE WASHOE COUNTY AIR POLLUTION REGULATIONS.
2. THE CONTRACTOR SHALL DISPOSE OF ALL DEMOLITION DEBRIS PER FEDERAL, STATE AND LOCAL REGULATIONS AND ORDINANCES.
3. NO MATERIAL OF ANY KIND SHALL BE STOCKPILED, OR CONSTRUCTION EQUIPMENT PARKED ON CONCRETE OR ASPHALT SURFACES MAINTAINED BY THE CITY OF SPARKS.
4. ALL UNDERGROUND UTILITIES SHOWN HEREON WERE TAKEN FROM SURFACE EVIDENCE AND AVAILABLE UTILITY COMPANY RECORDS. ALL UTILITIES SHOULD BE VERIFIED IN THE FIELD. ODYSSEY ENGINEERING INC. ASSUMES NO RESPONSIBILITY FOR ACCURACY OR COMPLETENESS OF SUCH RECORDS.
5. THE CONTRACTOR SHALL MAINTAIN AN ON-GOING PROCESS OF REMOVAL OF ALL SPILLAGE OF EXCAVATION MATERIAL ON ALL PAVED STREETS.
6. ALL REQUIRED UTILITY SHUT-DOWNS SHALL BE COORDINATED WITH APPROPRIATE UTILITY COMPANY AND OWNER'S PROJECT REPRESENTATIVE.
7. THE CONTRACTOR SHALL OBTAIN AND THE OWNER SHALL PAY FOR ALL NECESSARY PERMITS AND FEES REQUIRED FOR CONSTRUCTION.
8. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE SOILS ENGINEER, NEVADA ENERGY, CITY OF SPARKS, AND THE TRUCKEE MEADOWS WATER AUTHORITY 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
9. ADD 4400 FEET TO ALL TRUNCATED ELEVATIONS.
10. ALL SEWER MAINS AND LATERALS SHALL BE SDR 35 PVC.
11. REF. TRUCKEE MEADOWS WATER AUTHORITY PLANS FOR ALL WATER SYSTEM DESIGN, CONSTRUCTION, AND WATER/SS/SO SEPARATION DETAILS.
12. ANY CONFLICT WITH EXISTING UTILITIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
13. THE CONTRACTOR SHALL COORDINATE WITH NV ENERGY AND TRUCKEE MEADOWS WATER AUTHORITY PRIOR TO INSTALLATION OF ALL POWER, GAS AND WATER.
14. THE WATER SYSTEM INSTALLATION SHALL INCLUDE ALL MATERIALS AND LABOR REQUIRED TO COMPLETE THE SYSTEM IN CONFORMANCE WITH ALL PERTINENT WATER SUPPLY REGULATIONS, AND THE WATER BACKFLOW PREVENTION INSTALLATION REQUIREMENTS AND STANDARDS PROVIDED BY TRUCKEE MEADOWS WATER AUTHORITY. REFERENCE APPROVED TMWA PLANS FOR ACTUAL WATER DESIGN.
15. REFERENCE BUILDING PLANS FOR COORDINATION OF SEWER AND DOMESTIC CONNECTIONS.
16. THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS, TEES, AND FIRE HYDRANTS AS PER TMWA CONSTRUCTION STANDARDS.
17. THE CONTRACTOR SHALL PROVIDE AN ELECTRIC SERVICE TO THE DOMESTIC WATER SERVICE REDUCED PRESSURE BACKFLOW PREVENTION HOT BOX.
18. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA SAFETY REQUIREMENTS.
19. THE CONTRACTOR SHALL REVIEW THE NV ENERGY GAS AND ELECTRIC PLANS DURING BIDDING TO DETERMINE ADDITIONAL TRENCH AND ASPHALT/CONCRETE PATCHING COSTS REQUIRED TO PROVIDE SERVICE WITH THIS SITE DEVELOPMENT NOT REFLECTED ON THESE PLANS.

LEGEND:

	EXISTING ASPHALT PAVING		IRRIGATION SLEEVE
	A.C. PAVING AREA (MATCH EXISTING SECTION)		STORM DRAIN (DASHED IF EXISTING)
	EXISTING CONCRETE		SANITARY SEWER (DASHED IF EXISTING)
	PORTLAND CEMENT CONCRETE AREA 4" P.C.C. (4000 p.s.i.) W/ FIBERMESH & 5%-7% AIR ON 4" TYPE 2 CLASS B AGG. BASE AT 95% RELATIVE COMPACTION		SANITARY SEWER LATERAL (DASHED IF EXISTING)
	4" OF DG		WATER AND GAS (DASHED IF EXISTING)
	CURB AND GUTTER (DASHED IF EXISTING)		WATER (DASHED IF EXISTING)
	POST CURB (DASHED IF EXISTING)		GAS (DASHED IF EXISTING)
	MANHOLE (DASHED IF EXISTING)		RECLAIM IRRIGATION MAIN (DASHED IF EXISTING)
	TYPE 4-R CATCH BASIN (DASHED IF EXISTING)		WATER SERVICE (DASHED IF EXISTING)
	TYPE 3 CATCH BASIN (DASHED IF EXISTING)		FIRE HYDRANT
	NYOPLAST YARD DRAIN (DASHED IF EXISTING)		UNDERGROUND ELECTRIC/ TELEPHONE (DASHED IF EXISTING)
	SITE LIGHT (DASHED IF EXISTING)		UNDERGROUND ELECTRIC (DASHED IF EXISTING)
	EXISTING CONTOUR		UNDERGROUND TELEPHONE (DASHED IF EXISTING)
	PROPOSED CONTOUR		SITE LIGHT
	EXISTING SPOT ELEVATION		SAWCUT LINE
	ELEVATION @ FINISH FLOOR		GRADE BREAK
	ELEVATION @ EXTERIOR FINISH GRADE		SLOPE IN PERCENT
	ELEVATION @ PAD GRADE		ELEVATION @ FINISH GRADE
			ELEVATION @ TOP OF CURB
			ELEVATION @ GRADE BREAK
			ELEVATION @ FLOW LINE



- NOTES:**
1. PORTLAND CEMENT CONCRETE (P.C.C.) SHALL HAVE THE FOLLOWING CHARACTERISTICS: 4000 PSI MIN. COMPRESSIVE STRENGTH @ 28 DAYS, MIN. 6 SACKS OF CEMENT PER CUBIC YARD WITH A MAX. WATER/CEMENT RATIO OF 0.45, AIR ENTRAINMENT 6% ±1.5%, SLUMP AT 1 TO 4 INCHES. ALL MATERIALS SHALL CONFORM TO SSPWC SECTION 202.
 2. (A) ALL CONCRETE CURB/GUTTER/SIDEWALK/VALLEY GUTTER SHALL HAVE WEAKENED PLANE JOINTS EVERY 10 FEET. (B) EXPANSION JOINTS 1/2" WIDE SHALL BE LOCATED IN CURBS & GUTTERS @ EACH SIDE OF STRUCTURES, @ ENDS OF ALL CURB RETURNS, & ABUTTING HARDENED-IN-PLACE CURB & GUTTER, EXCEPT THAT EXPANSION JOINTS SHALL NOT BE INSTALLED WITHIN 20" OF AN ISLAND NOSE. EXPANSION JOINTS SHALL BE 1/2" THICK, SHAPED TO THE CROSS SECTION OF THE CURB & GUTTER, & SHALL BE CONSTRUCTED @ RIGHT ANGLES TO THE CURB & GUTTER. JOINT FILLER MATERIAL SHALL CONFORM TO SECTION 202.10.
 3. AGGREGATE BASE MATERIAL SHALL CONFORM TO THE SPECIFICATIONS FOR TYPE 2 AGGREGATE BASE AND BE COMPACTED TO MIN. 95% MAXIMUM DRY DENSITY (M.D.D.).

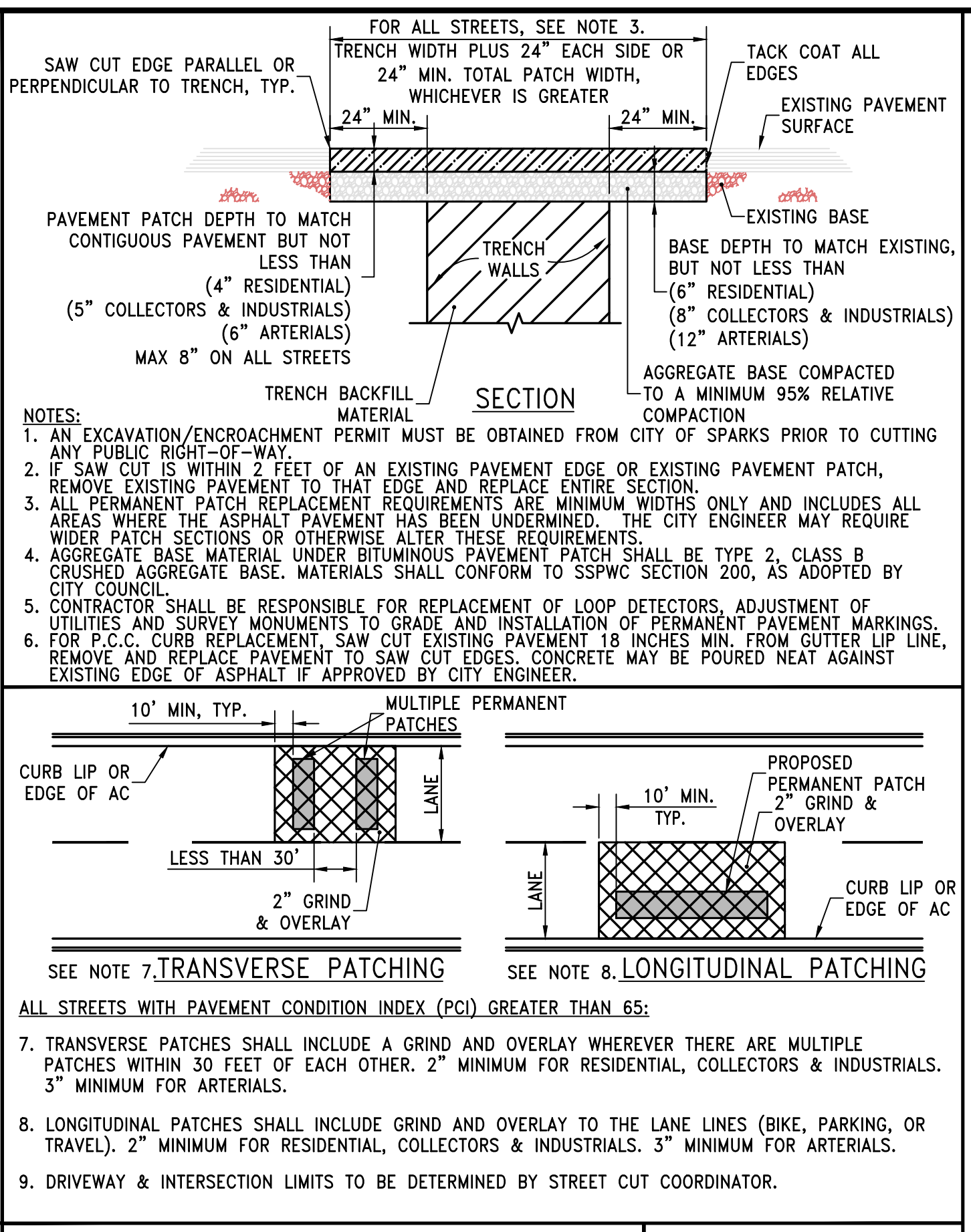
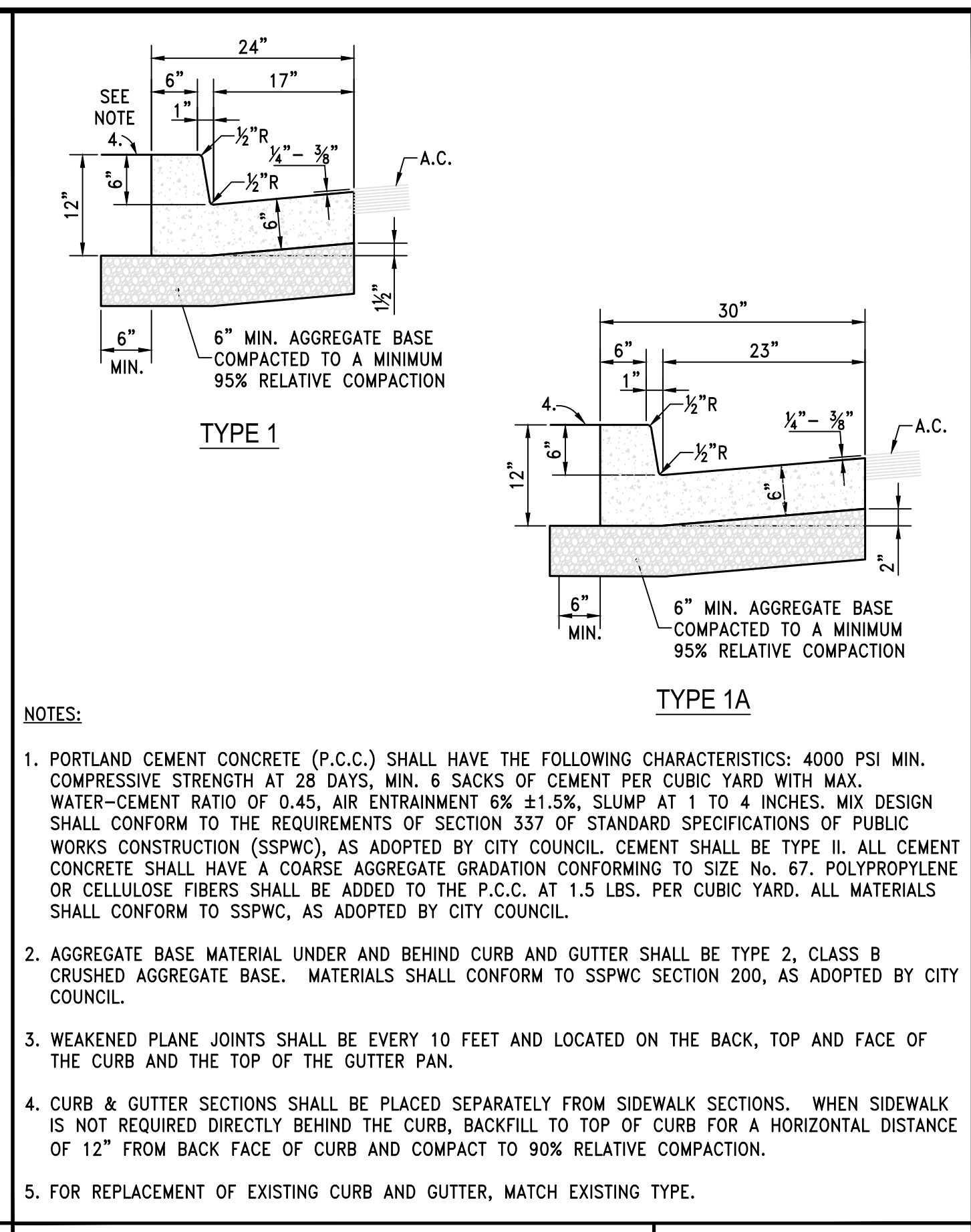
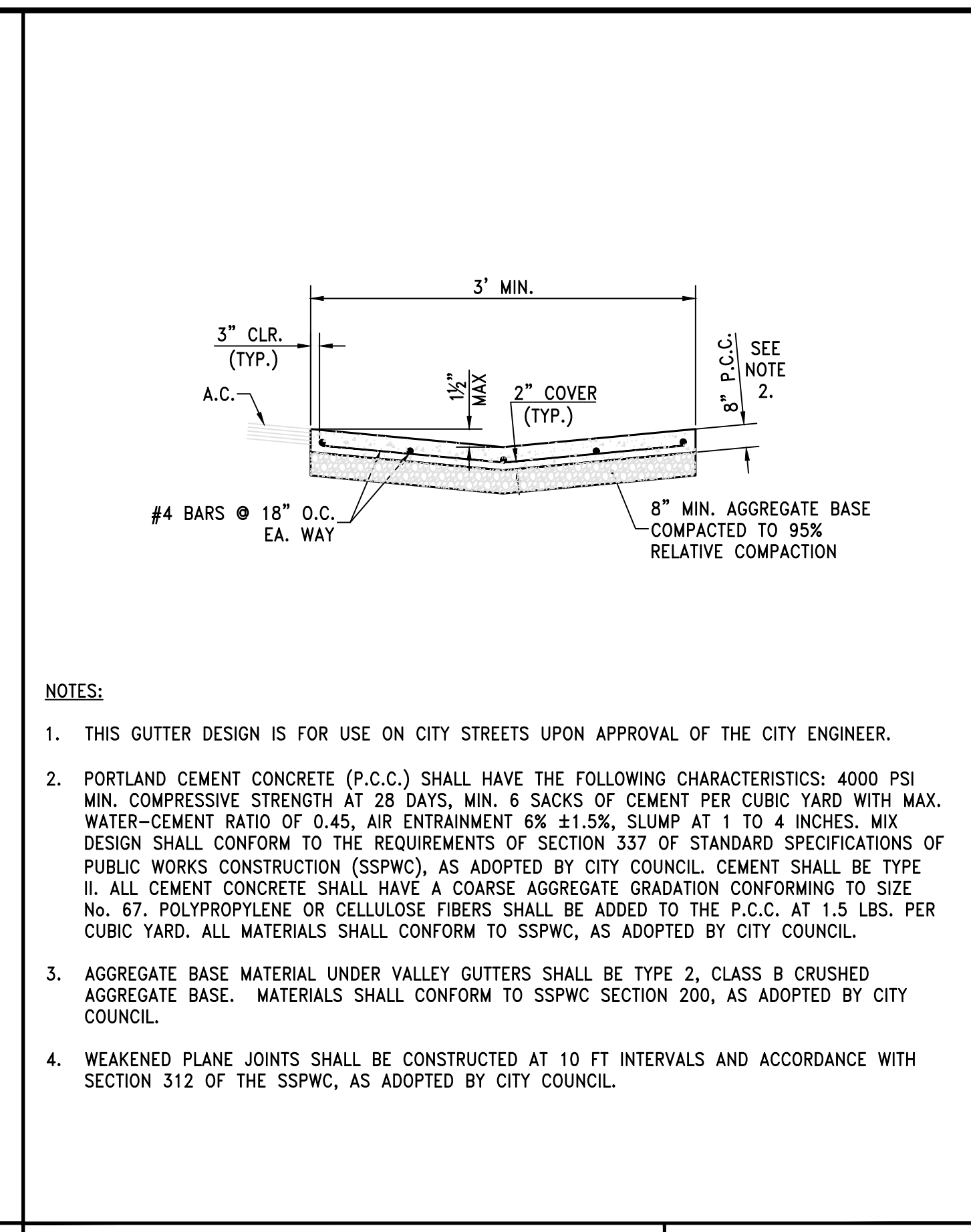
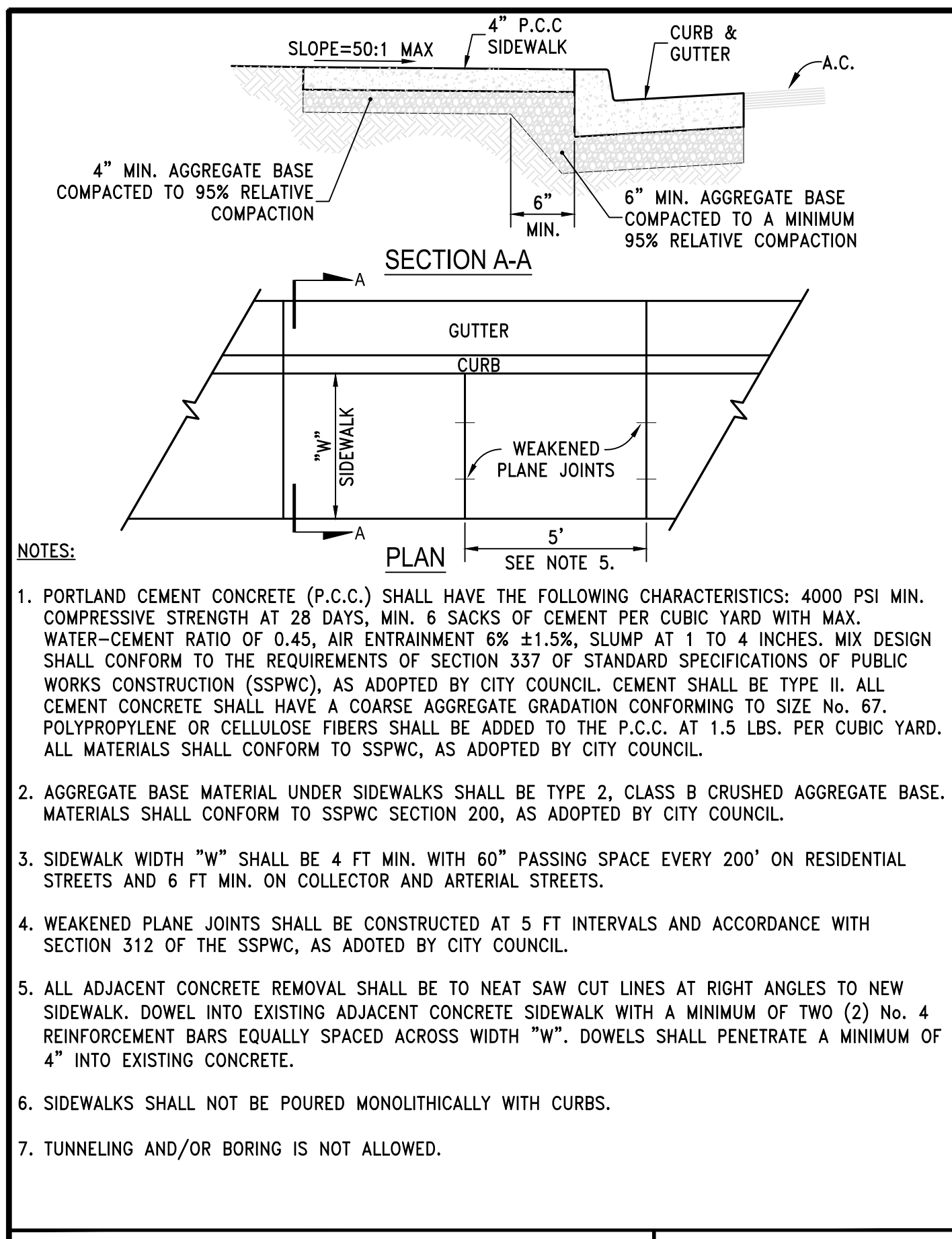
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DATE: APRIL 2023			
DRAWN BY: ACAD_2023			
DESIGNED BY: TCF			
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CITY OF SPARKS			
SHELLY PARK RESTROOM			
SITE & GRADING PLAN			
SPARKS			
WASHOE			
NEVADA			

885 ROBERTA LANE, SUITE 104, SPARKS, NV 89431
(775) 369-3303 FAX (775) 359-3329
ODYSSEY@RENO.COM

odyssey ENGINEERING INCORPORATED

PROFESSIONAL ENGINEER STATE OF NEVADA
TRAVIS C. PAGE
Exp. 12-31-23
CIVIL
No. 28825
4/23

SCALE
HORIZ. AS SHOWN
VERT. -
JOB NO. XXXX
SHEET 2 OF 3

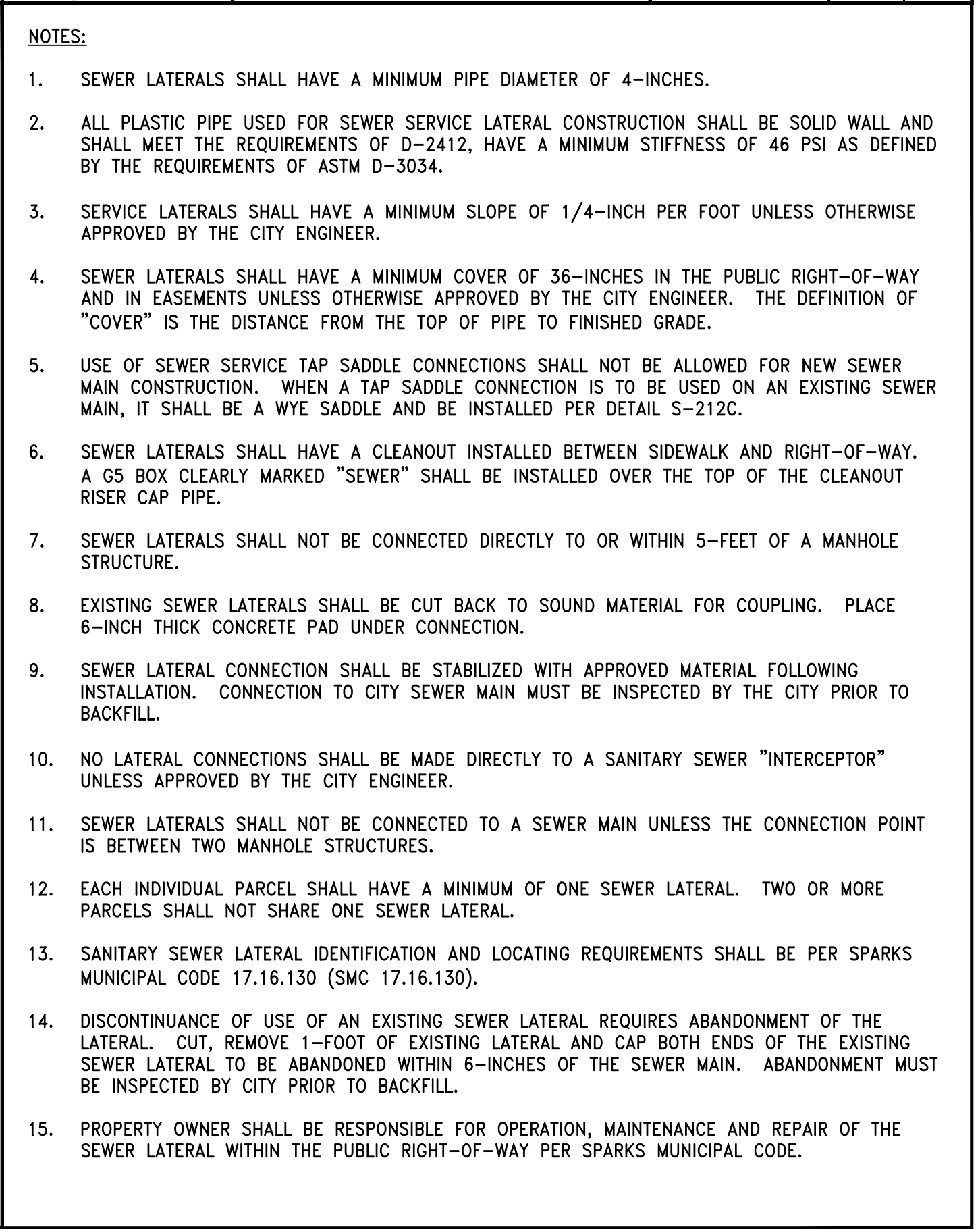
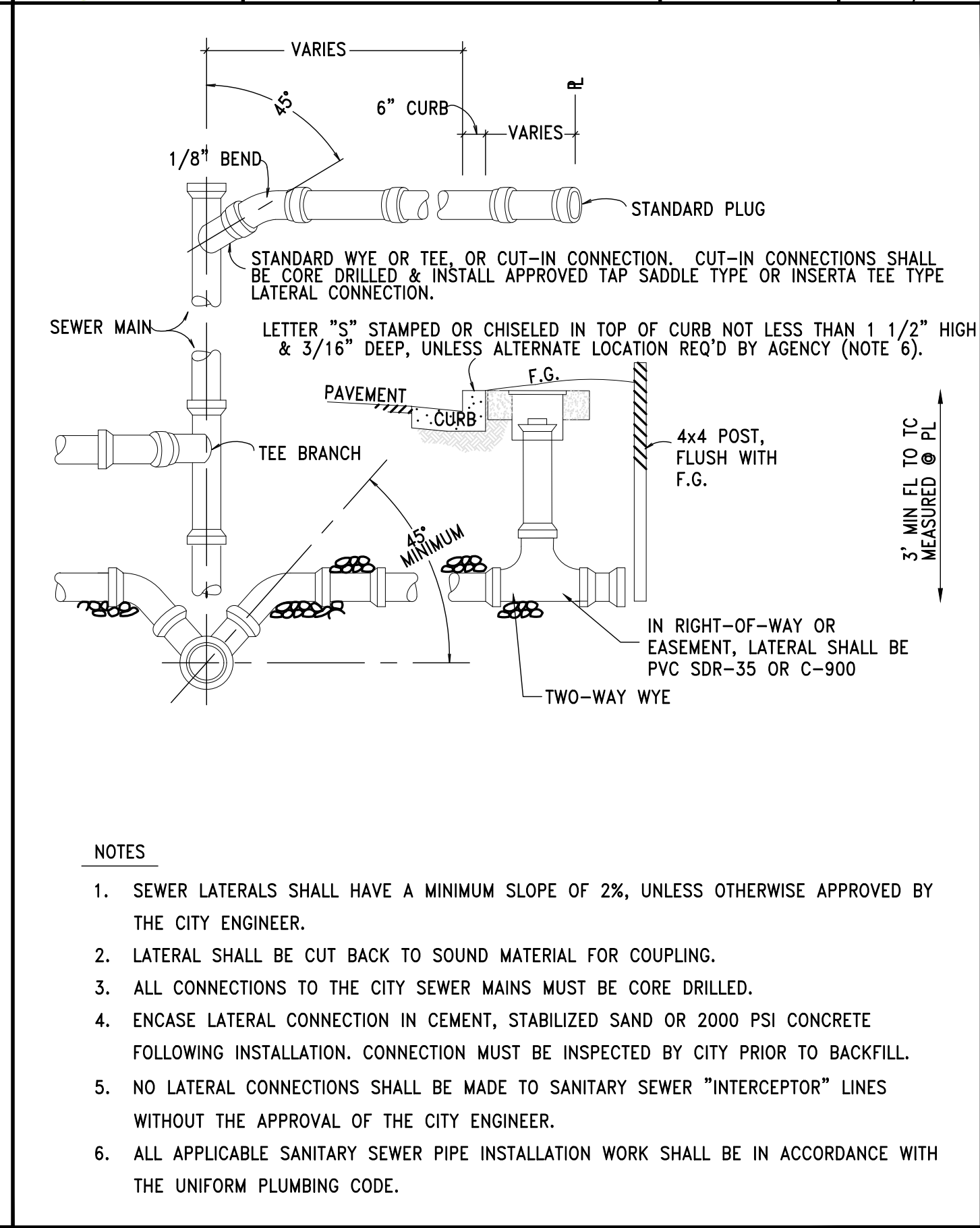
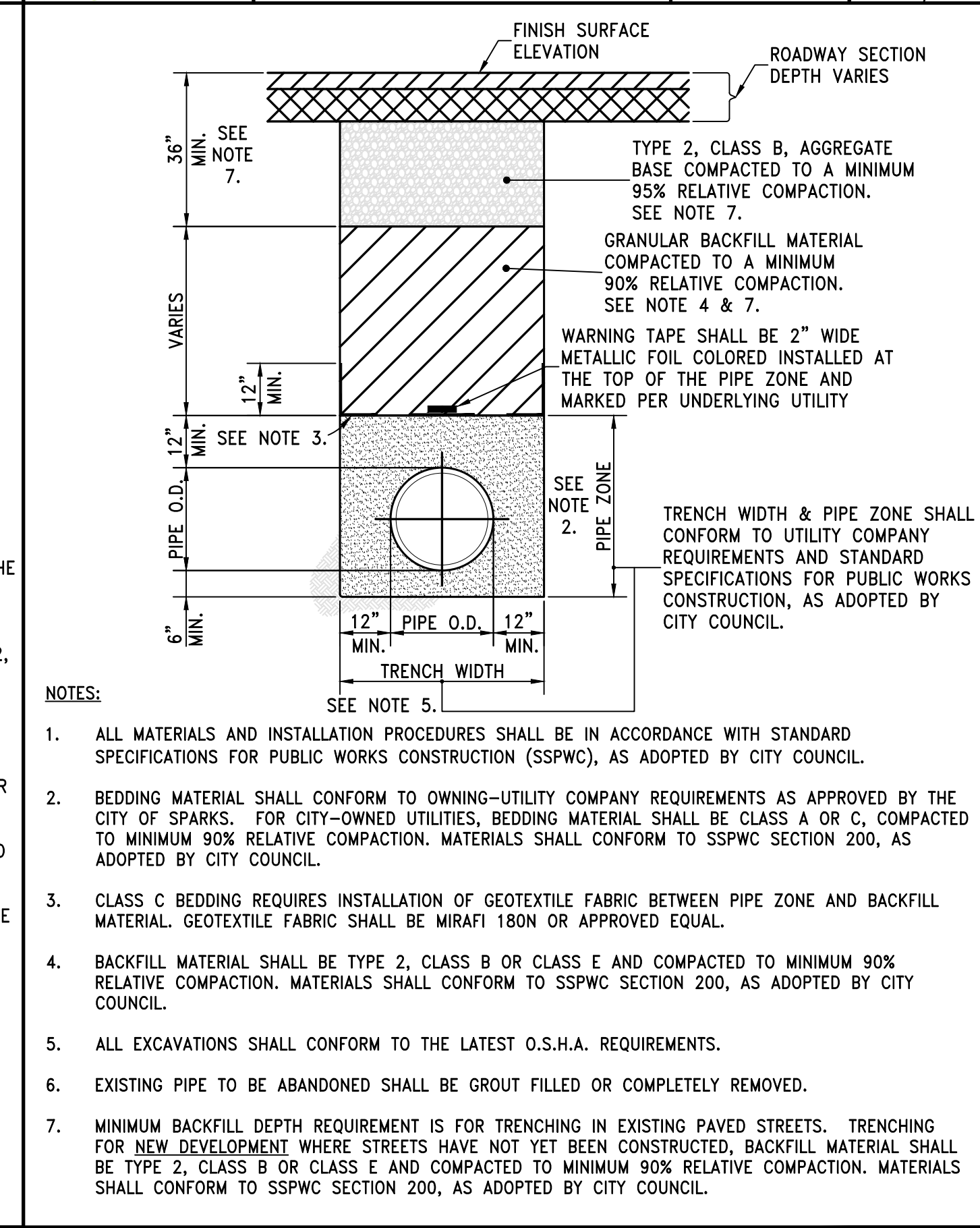
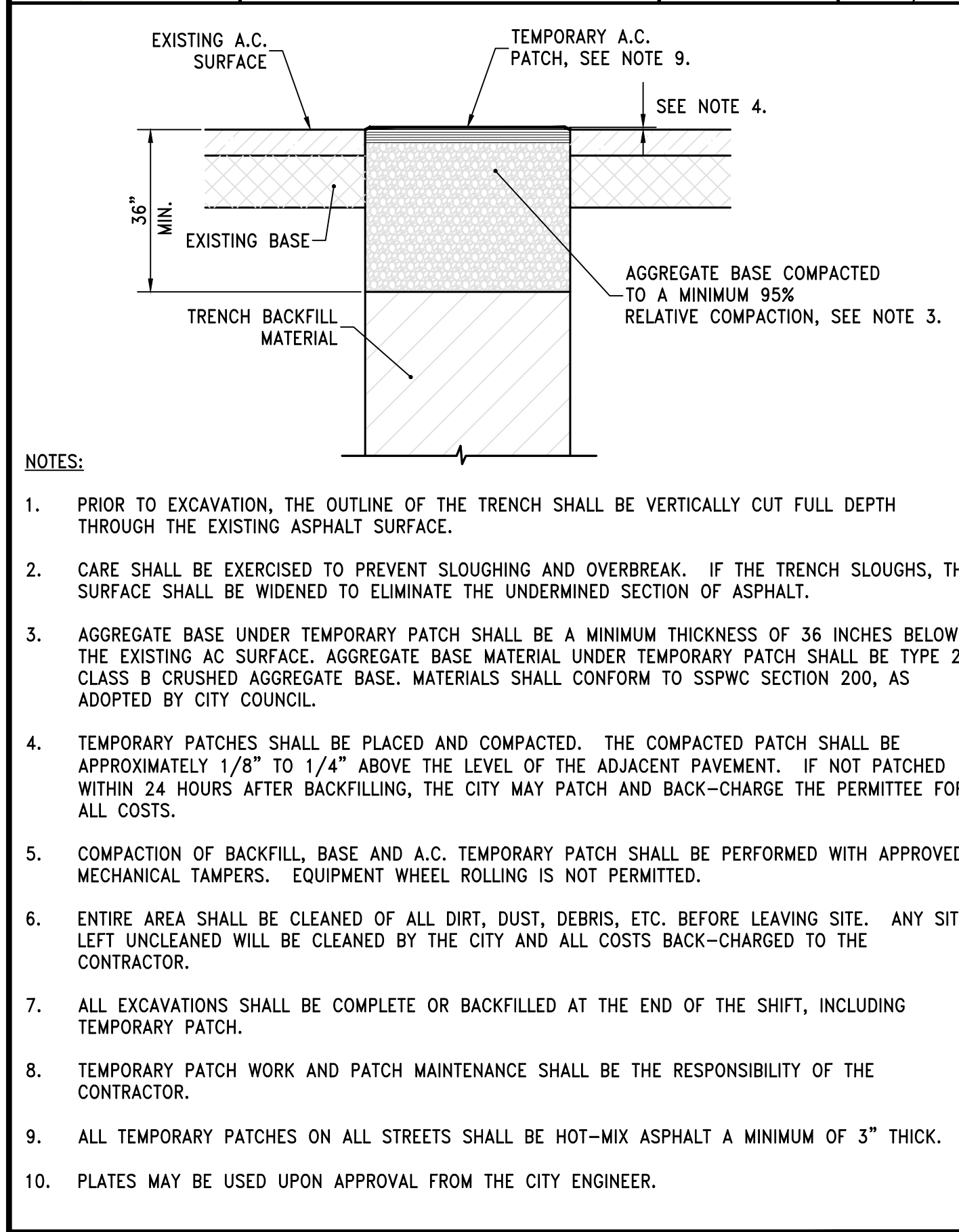


STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
SIDWALK DETAIL	S-103
APPROVED BY: JE	DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
LONGITUDINAL P.C.C. VALLEY GUTTER	S-108
APPROVED BY: JE	DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
P.C.C. CURB & GUTTER	S-109
APPROVED BY: JE	DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
PERMANENT BITUMINOUS PAVEMENT PATCH	S-115
APPROVED BY: JE	DATE: 1/2020



STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
TEMPORARY A.C. TRENCH PATCH	S-116
APPROVED BY: JE	DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
TRENCH EXCAVATION/BACKFILL	S-117
APPROVED BY: JE	DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
SANITARY SEWER LATERAL	S-212A
APPROVED BY: JE	DATE: 1/2020

STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION	DRAWING No.
NOTES - SANITARY SEWER LATERAL	S-212B
APPROVED BY: JE	DATE: 1/2020

DATE: APRIL 2023	DATE	DESCRIPTION	BY	APP'D
DRAWN BY: ACAD	REV.			
DESIGNED BY: TCF				
CHECKED BY: TCF				

CITY OF SPARKS
SHELLY PARK RESTROOM
DETAILS

NEVAIDA
SPARKS
WASHOE

PERMIT PLANS

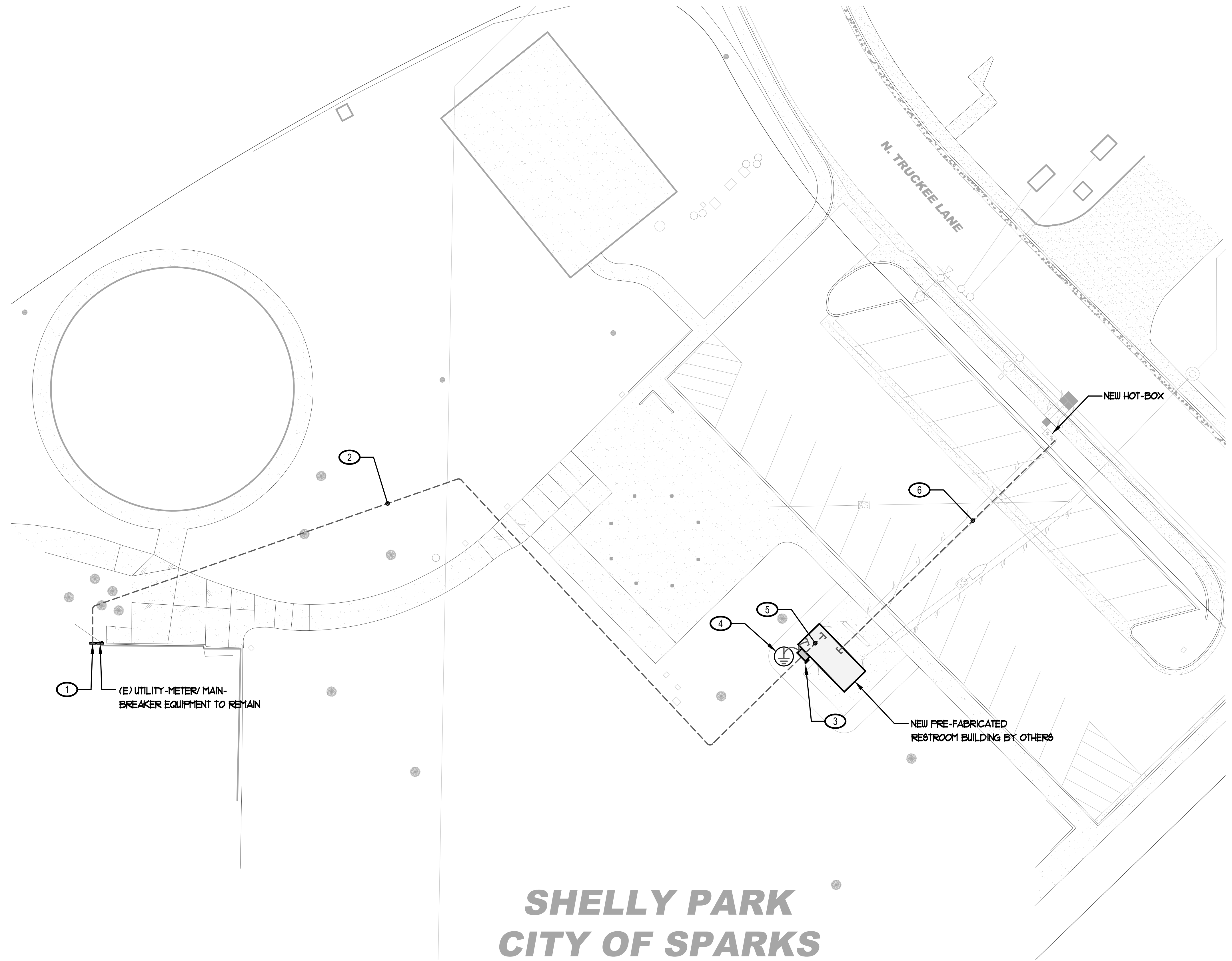
885 ROBERTA LANE, SUITE 104, SPARKS, NV 89431
(775) 369-3303 FAX (775) 359-3329
ODYSSEYRENO.COM

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SCALE	HORIZ. AS SHOWN
VERT.	
JOB No.	XXXX
SHEET	3 OF 3

SHEET NOTES

- ① INSPECT PROJECT SITE AND IDENTIFY EXISTING PANELBOARD. PROVIDE AND INSTALL 100-AMP/2-POLE BREAKER AT EXISTING BREAKER SPACES #3, 11 FOR NEW RESTROOM BUILDING.
- ② COORDINATE WITH GENERAL CONTRACTOR AS REQUIRED FOR INSTALLATION OF NEW ELECTRICAL FEEDER. VERIFY EXACT ROUTING. SAW-CUT EXISTING CONCRETE SIDEWALK WHERE REQUIRED. PROVIDE AND INSTALL ONE 2" CONDUIT WITH (3)-#2 Cu + (1)-#8 Cu GROUND AND EXTEND FROM EXISTING PANELBOARD (SEE SHEET NOTE #1) TO NEW DISCONNECT SWITCH ON BUILDING EXTERIOR. CONNECT COMPLETELY PER MANUFACTURER'S INSTRUCTIONS. REPAIR CONCRETE SIDEWALK TO MATCH PRE- CONSTRUCTION CONDITIONS.
- ③ PROVIDE AND INSTALL 200A/NF/2P, 250V, NBR DISCONNECT SAFETY SWITCH ON NEW RESTROOM BUILDING EXTERIOR. CONNECT ELECTRICAL FEEDER (SEE SHEET NOTE #2) COMPLETELY PER MANUFACTURER'S INSTRUCTIONS.
- ④ PROVIDE AND INSTALL GROUNDING ELECTRODE SYSTEM AT RESTROOM BUILDING PER NEC ARTICLE 250. PROVIDE AND INSTALL #3/0 Cu GROUNDING ELECTRODE CONDUCTOR AND BOND TO RESTROOM BUILDING DISCONNECT SWITCH AND BUILDING INTERIOR PANELBOARD GROUND-BUS (INTERIOR PANELBOARD BY OTHERS). BOND GROUNDING ELECTRODE CONDUCTOR TO ALL AVAILABLE APPROVED GROUNDING ELECTRODE SYSTEMS PER NEC ARTICLE 250.53 AS FOLLOWS:
 1. METAL UNDERGROUND WATER PIPING SYSTEMS (250.53(A)1).
 2. METAL FRAME OF THE BUILDING OR STRUCTURE (250.53(A)2).
 3. CONCRETE ENCASED ELECTRODE (250.53(A)3).
 4. GROUNDING RING SYSTEM (250.53(A)4).
 5. ROD AND PIPE ELECTRODE SYSTEMS (250.53(A)5).
- ⑤ EXTEND ELECTRICAL FEEDER (SEE SHEET NOTE #2) FROM NEW EXTERIOR DISCONNECT SWITCH TO BUILDING INTERIOR PANELBOARD AND CONNECT COMPLETELY PER MANUFACTURER'S INSTRUCTIONS. BUILDING INTERIOR PANELBOARD BY OTHERS.
- ⑥ COORDINATE WITH RESTROOM BUILDING MANUFACTURER AS REQUIRED TO INCORPORATE NEW HOT-BOX. PROVIDE AND INSTALL 20-AMP/1-POLE CIRCUIT BREAKER IN RESTROOM BUILDING PANELBOARD. PROVIDE AND INSTALL 1" UNDERGROUND CONDUIT WITH (2)-#2 Cu + (1)-#2 Cu GROUND FROM NEW RESTROOM BUILDING PANELBOARD TO NEW HOT-BOX VIA ELECTRICAL AS SHOWN. CONNECT COMPLETELY PER MANUFACTURER'S INSTRUCTIONS.



**SHELLY PARK
CITY OF SPARKS**

A PROPOSED SITE ELECTRICAL PLAN
1" = 20'-0"

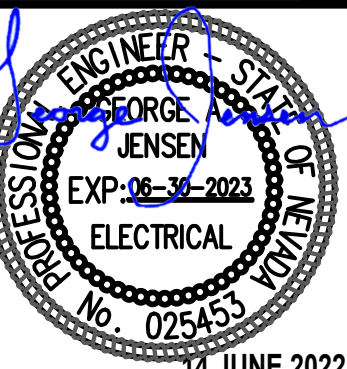
REV.	DATE	DESCRIPTION	BY	APP'D

DATE: JUNE 2021
DRAWN BY: GAJ
DESIGNED BY: GAJ
CHECKED BY: GAJ

CITY OF SPARKS
SHELLY PARK RESTROOM
PROPOSED ELECTRICAL SITE PLAN
SPARKS WASHOE NEVADA

885 ROBERTA LANE, SUITE 104, SPARKS, NV 89431
(775) 398-3303 FAX (775) 359-3329
ODYSSEYRENO.COM

odyssey ENGINEERING INCORPORATED



SCALE
HORIZ. **SHOWN**
VERT. —
JOB NO.
A162BN

SHEET
E101
OF
—

SHEET NOTES

- 1 INSPECT PROJECT SITE AND IDENTIFY EXISTING PANELBOARD. PROVIDE AND INSTALL 100-AMP/2-POLE BREAKER AT EXISTING BREAKER SPACES #9, 11 FOR NEW RESTROOM BUILDING.

1-Phase, 3-Wire, Electrical Panelboard Schedule by Jensen Engineering, Inc. ⁴																			
Project Name:		SHELLY PARK		Line to Neutral Voltage:		120		Bus Material:		EXISTING		Short Circuit Rating:		EXISTING					
Panel Name:		METER/MAIN		Line to Line Voltage:		240		Bus Rating:		EXISTING		New or Existing:		EXISTING					
Panel Location:		TENNIS COURT		Main Breaker or Lug Only:		Lug Only		Lug/Breaker Rating:		200 AMP		Mounting:		SURFACE					
Ckt. No.	Load (VA)	Description	Load Power Factor	One-Way Ckt Length (ft)	Wire Size (AWG)	Corrected 2 (0-to-Neutral)	VDROP (%)	Breaker Poles	Phase Trip	Breaker A	Breaker B	VDROP (%)	Corrected 2 (0-to-Neutral)	Wire Size (AWG)	One-Way Ckt Length (ft)	Load Power Factor	Description	Load (VA)	Ckt. No.
1		EXISTING LOAD TO REMAIN						2	30										2
3		EXISTING LOAD TO REMAIN						2	30										4
5		EXISTING LOAD TO REMAIN						2	30										6
7		EXISTING LOAD TO REMAIN						2	30										8
9	7760	NEW RESTROOM BUILDING ¹	0.85	285	2	0.20	3.02	2	100										10
11	7760	NEW RESTROOM BUILDING ¹						2	100										12
13		EXISTING LOAD TO REMAIN						1	20										14
15		EXISTING LOAD TO REMAIN						1	20										16
17		EXISTING LOAD TO REMAIN						1	20										18
19		EXISTING LOAD TO REMAIN						1	20										20
21		EXISTING LOAD TO REMAIN						1	20										22
23		EXISTING LOAD TO REMAIN						1	20										24
25		EXISTING LOAD TO REMAIN						1	20										26
27		EXISTING LOAD TO REMAIN						1	20										28
29		EXISTING LOAD TO REMAIN						1	20										30
7760	7760	Total Load (VA)																	

1

- Notes:
1. Voltage drop calculated using Neher-McGrath method.
 2. Resistance and Reactance taken from NEC/CEC Chapter 9, Table 9.
 3. Conductor length estimated for voltage-drop calculation only. Not to be used for pricing.
 4. See Existing Electrical Load Calculation.

Total Load (VA):	0	0
+25% of Lighting Load (VA):	0	0
+25% of Largest Motor Load (VA):	0	0
Combined Total Load (VA):	7760	7760
Average Line Current (Amps):	64.67	64.67
Average Total Current (Amps):	64.67	
Total Connected Load (kVA):	15.52	

EXISTING ELECTRICAL LOAD CALCULATION PER NEC 220.87		
EXISTING LOAD (PER NV ENERGY):	5.24	kW
EXISTING LOAD ASSUMING 0.85 POWER FACTOR:	6.16	kVA
EXISTING LOAD CALCULATED AT 125%:	7.71	kVA
ADDED LOADS:		
RESTROOM BUILDING:	15.52	kVA
IRRIGATION HOT-BOX:	0.87	kVA
TOTAL COMBINED LOAD:	24.10	kVA
AVERAGE LINE CURRENT AT 240 VOLT, 1-PHASE:	100.40	AMPS
EXISTING 200-AMP SERVICE ADEQUATE FOR USE		

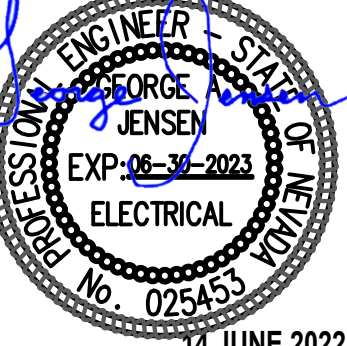
REV.	DATE	DESCRIPTION	BY	APP'D

DATE: JUNE 2021
 DRAWN BY: GAJ
 DESIGNED BY: GAJ
 CHECKED BY: GAJ

CITY OF SPARKS
 SHELLY PARK RESTROOM
 ELECTRICAL SCHEDULES
 SPARKS WASHOE NEVADA

885 ROBERTA LANE, SUITE 104, SPARKS, NV 89431
 (775) 369-3303 FAX (775) 359-3329
 ODYSSEYRENO.COM

odyssey ENGINEERING INCORPORATED



SCALE
 HORIZ. **SHOWN**
 VERT. —
 JOB NO. **A162BN**

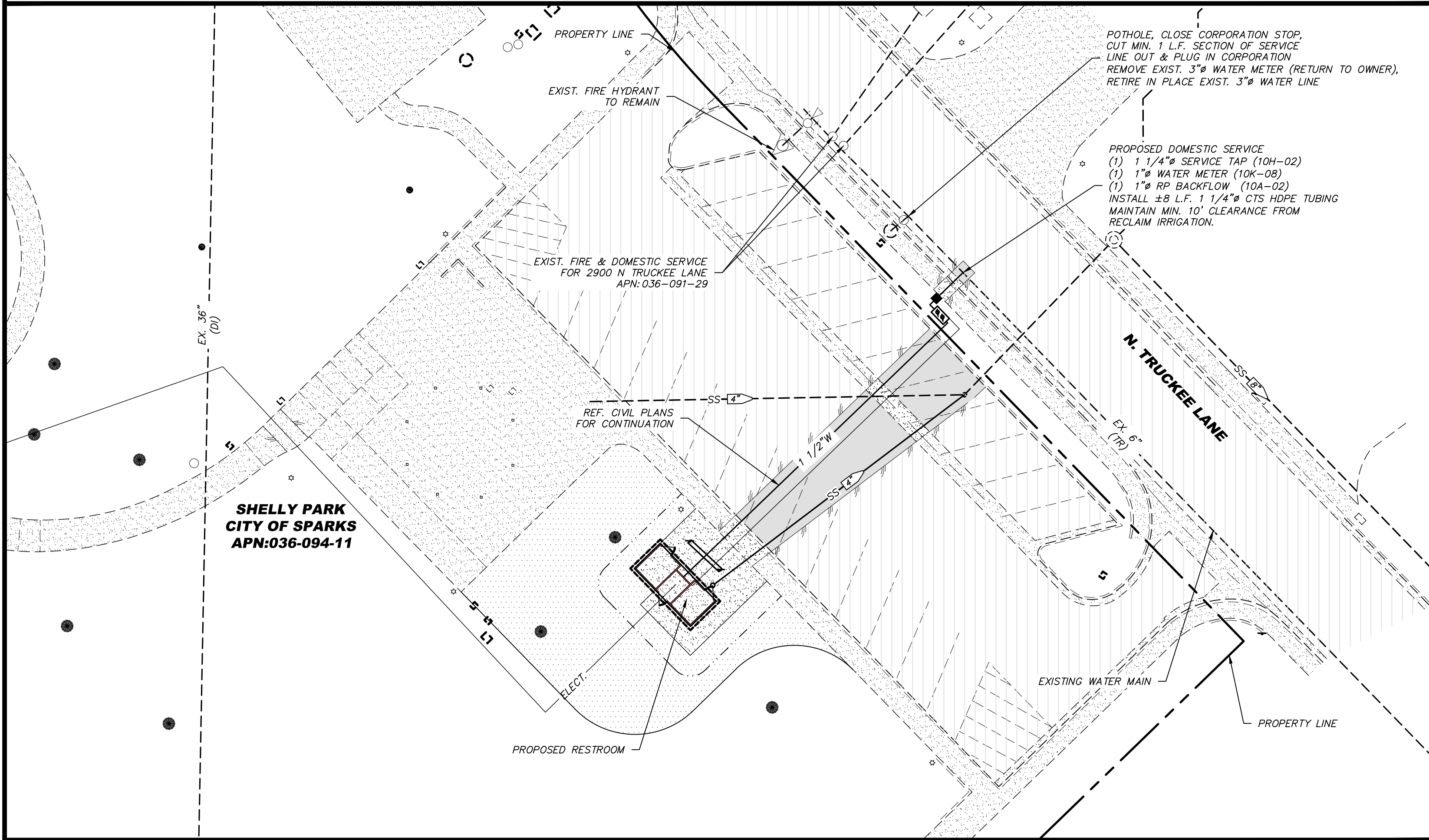
SHEET
E201
 OF
 —

2901 N TRUCKEE LN_COMSV

WORK ORDER NO. XX-XXXX
 DESIGNED BY: DVS/SEY ENGINEERING
 DRAWN BY: ACOZ 2023
 DATE: APRIL 2023
 CHECKED BY: _____
 SUBMITTED BY: _____
 RECOMMENDED BY: _____
 APPROVED BY: _____

TRUCKEE MEADOWS WATER
 U T H O R I T Y
 1355 CAPITAL BLVD., PO BOX 30013
 RENO, NV 89512
 PH: 775-854-8000 / FX: 775-854-8003

2901 N TRUCKEE LN_COMSV
WO#: XX-XXXX
WATER PLANS



TRUCKEE MEADOWS WATER AUTHORITY:

APPLICANT TO FURNISH AND/OR INSTALL:
 ALL TRENCHING AND EXCAVATION PER TMWA ENGINEERING & CONSTRUCTION STANDARDS SECTIONS 4 AND 5.
 ALL SURVEY STAKING NECESSARY TO CLARIFY RIGHT-OF-WAY, EASEMENTS, PROPERTY LINES, ELEVATIONS, ETC.
 ALL NECESSARY PERMITS, PAVEMENT CUTTING, PAVEMENT REMOVAL, AND PAVEMENT REPLACEMENT.
 APPLICANT TO INSTALL WATER METER SETTER AND ENCLOSURE. WATER METER INSTALLED BY TMWA.
 ALL REQUIRED LINE PRESSURE TESTS AND WELDING/FUSION QUALITY TESTS SHALL BE PERFORMED IN ACCORDANCE WITH AWWA C600, C605 AND TMWA ENGINEERING & CONSTRUCTION STANDARDS. MOST STRINGENT STANDARD SHALL APPLY. ALL PRESSURE TESTS SHALL BE PERFORMED BEFORE THE PIPING IS FLUSHED, DISINFECTED OR SAMPLED FOR AN ANALYSIS OF WATER QUALITY.
 ADDRESSES OR BUILDING DESIGNATION.
 LETTER TO VERIFY THAT ELEVATIONS ARE AT ENGINEERED SUB-GRADES PRIOR TO UTILITY CONSTRUCTION.
 ALL PRIVATE DOMESTIC AND IRRIGATION LINES BEYOND THE POINT OF CONNECTION AT TMWA'S METER PROVISION AND ALL NECESSARY WATER PRESSURE REGULATION EQUIPMENT (REFER TO THE MOST CURRENT EDITION OF THE UNIFORM PLUMBING CODE WHICH HAS BEEN ADOPTED BY THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER THE PROJECT).
 WATER MAINS SHALL NOT BE PLACED IN SERVICE UNTIL DISINFECTED PER AWWA STANDARD C651 AND AN ANALYSIS WHICH INDICATES IT MEETS PRIMARY STANDARDS FOR COLIFORM BACTERIA HAS BEEN OBTAINED. FINAL WATER QUALITY TESTS WILL BE FORWARDED TO THE REVIEWING AGENCY UPON COMPLETION OF ANALYSIS.
 CONTRACTOR TO COORDINATE WITH TMWA INSPECTOR REGARDING DISCHARGE OF SPENT CHLORINATED WATER.
 V-BIO POLYETHYLENE WRAP TO BE USED ON ALL DUCTILE IRON PIPE (DIP) AND FITTINGS PER AWWA STANDARD C105.
 APPROX. 8' OF 1 1/4" AWWA C901 CTS HDPE TUBING WITH ALL FITTINGS AND APPURTENANCES. (INCLUDING ALL HOT TAPS 2" AND UNDER). DOMESTIC
SEPARATION BETWEEN WATER SERVICES:
 C900 PVC PIPE, TRANSITE (AC) PIPE - SERVICE TAPS ON THE SAME SIDE OF PIPE SHALL HAVE A MINIMUM 36" SEPARATION. SERVICES STAGGERED SIDE TO SIDE OF PIPE SHALL HAVE A MINIMUM 18" SEPARATION. NO SERVICES ALLOWED WITHIN 24" OF CUT END OR PIPE TO BELL TRANSITION.
 DUCTILE IRON PIPE, CAST IRON PIPE, STEEL PIPE - SERVICE TAPS ON THE SAME SIDE OF PIPE SHALL HAVE A MINIMUM 18" SEPARATION. SERVICES STAGGERED SIDE TO SIDE OF PIPE SHALL HAVE A MINIMUM 9" SEPARATION. NO SERVICES ALLOWED WITHIN 24" OF CUT END OR PIPE TO BELL TRANSITION.

TMWA TO FURNISH AND/OR INSTALL:

FIELD INSPECTOR TO INSPECT MAINS AND SERVICES
 1- 1" PERL - SENSUS WATER METER(S) FOR DOMESTIC.
GENERAL COMMENTS:
 CONTRACTOR TO CALL PROJECT COORDINATOR AT (775) 834-XXXX 48-HOURS PRIOR TO START OF CONSTRUCTION TO SCHEDULE ON-SITE INSPECTION. (INCLUDE WORK ORDER NUMBER XX-XXXX)
 APPLICANT TO NOTIFY TMWA OF ANY DESIGN AND/OR ADDRESS CHANGES.
 ALL MATERIALS, INCLUDING BACKFILL, SHALL BE AT THE JOB SITE PRIOR TO START OF CONSTRUCTION AND SHALL COMPLY WITH TMWA ENGINEERING & CONSTRUCTION STANDARDS.
 MAINTAIN POTABLE WATER AND SS/SD/NON-POTABLE HORIZONTAL AND VERTICAL CLEARANCES AS SPECIFIED IN NEVADA ADMINISTRATIVE CODE (NAC) SECTION 445A AND TMWA ENGINEERING & CONSTRUCTION STANDARDS SECTION 8.
 AT ALL CROSSINGS, UNDERGROUND ELECTRIC FACILITIES SHALL BE LOCATED BELOW WATER MAINS AND/OR WATER SERVICES WITH A MINIMUM OF 2-FOOT VERTICAL CLEARANCE.
 ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE TMWA ENGINEERING & CONSTRUCTION STANDARDS. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS/HER OWN BEHALF. THE ENGINEERING & CONSTRUCTION STANDARDS MAY BE DOWNLOADED FROM: www.tmwa.com/standards
 SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.
 THESE DRAWINGS ARE BASED ON CIVIL PLANS DATED: DEC 2022
 THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. NO RESPONSIBILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED HEREON.
 CAUTION: CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING WORK AROUND ALL EXISTING UTILITIES. PRIOR TO EXCAVATION, CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE INSTALLATION OF GAS FACILITIES.
 SOILS RETENTION MAY BE REQUIRED AROUND WATER METER BOXES, FIRE HYDRANTS, AND OTHER FACILITIES IF SLOPES EXCEED 15%.
 WATER METERS SHALL BE LOCATED WITHIN A PUBLIC UTILITY EASEMENT (PUE).
 TOP OF WATER METER ENCLOSURE SHALL BE SET 0.2 FEET ABOVE HIGHEST FINISHED GRADE SURROUNDING ENCLOSURE WITHIN LANDSCAPED AREAS. FOR INSTALLATIONS IN CONCRETE OR OTHER PAVED AREAS, SET TOP OF LID FLUSH WITH SURROUNDING SURFACE.
 APPLICANT TO ADVISE PLUMBING CONTRACTOR OF HIS/HER RESPONSIBILITY TO VERIFY WATER PRESSURE DURING STATIC CONDITIONS AT ALL SERVICE LOCATIONS. THE PLUMBING CONTRACTOR IS REQUIRED TO CONFORM TO THE MOST CURRENT EDITION OF THE UNIFORM PLUMBING CODE WHICH HAS BEEN ADOPTED BY THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER THE PROJECT. SPECIAL ATTENTION SHOULD BE GIVEN TO THE SECTION OF THE CODE CONCERNING STATIC WATER PRESSURE IN EXCESS OF 80 PSI.
 UNUSED SERVICE LATERALS SHALL BE RETIRED BACK TO TMWA'S WATER MAIN.
 WATER MAINS TO EXTEND A MINIMUM OF 10-FEET BEYOND END OF PAVING. MAINS ARE NOT TO BE INSTALLED UNDER SIDEWALK AND/OR CURB & GUTTER.
 DURING CONSTRUCTION ALL OPEN ENDS OF PIPES OR FITTINGS SHALL BE SEALED AT THE END OF EACH WORKING DAY TO PREVENT THE ENTRY OF FOREIGN OBJECTS.
 ALL PIPE AND APPURTENANCES SHALL BE NSF 61 CERTIFIED.

DOMESTIC SERVICES

RP USC APPROVED RP (REDUCED PRESSURE PRINCIPLE ASSEMBLY)
 IF INITIAL TEST DONE BY TMWA FIELD PERSONNEL FAILS, RE-TESTING OF BACKFLOW PREVENTION ASSEMBLY IS REQUIRED WITHIN 7-10 DAYS AFTER METER IS SET OR SERVICE ACTIVATION. A COPY OF TEST RESULTS ARE TO BE FORWARDED TO TMWA WATER QUALITY/BACKFLOW PREVENTION PERSONNEL BY A CERTIFIED ASSEMBLY TESTER.

CHLORINE DOSAGE			
PIPE DIAMETER	NUMBER OF 5 gram TABLETS REQUIRED	FOR 100 FT OF PIPE	FOR 200 FT OF PIPE
6"	1	1	1
8"	1	2	2
10"	2	3	3
12"	3	4	4

NOT FOR CONSTRUCTION

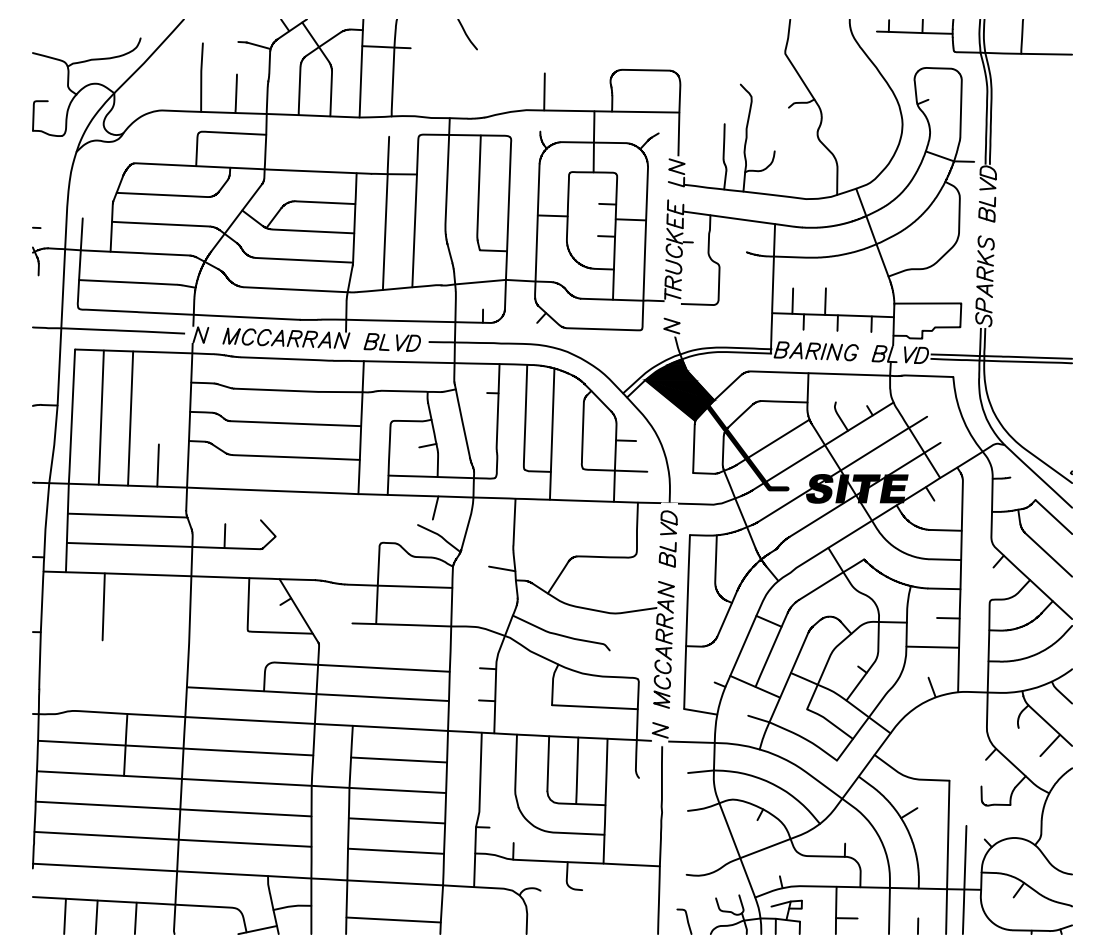
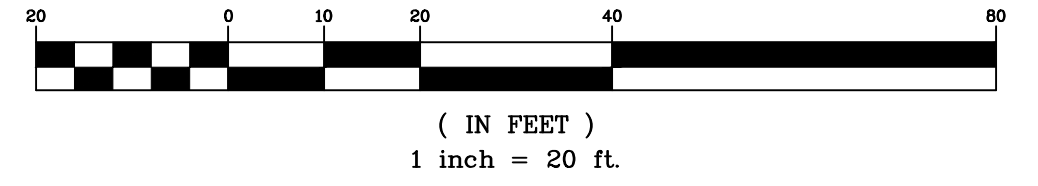


LEGEND:

- 11" ELBOW
- 11" M.J. ELBOW
- 22" ELBOW
- 22" M.J. ELBOW
- 45" ELBOW
- 45" M.J. ELBOW
- 90" ELBOW
- 90" M.J. ELBOW
- BACKFLOW PREVENTOR
- CHECK VALVE
- FIRE HYDRANT
- FLUSH VALVE
- METER-DUAL
- METER-SINGLE
- REDUCER
- SERVICE-DUAL
- SERVICE-SINGLE
- TEE
- VALVE

NOTE:
 TMWA WILL NOT ACCEPT ANY PIPE MANUFACTURED BY JM EAGLE, PW EAGLE, OR PW PIPE
NOTE:
 POLYETHYLENE WRAP TO BE USED ON ALL DUCTILE IRON PIPE AND FITTINGS
NOTE:
 ALL SERVICES TO HAVE PRIVATE PRESSURE REGULATING VALVES.
NOTE:
 CONTRACTOR MUST OBTAIN ENCROACHMENT PERMIT FROM CITY OF SPARKS PRIOR TO STREET CUTTING WITHIN PUBLIC RIGHT-OF-WAY.

GRAPHIC SCALE



- ABBREVIATIONS**
- ARV AIR RELEASE VALVE
 - ASSY ASSEMBLY
 - BOT BOTTOM (OF PIPE)
 - BOV BLOW-OFF VALVE
 - CL CENTERLINE
 - CONST CONSTRUCT
 - CTS COPPER TUBE SIZE
 - DI OR DIP DUCTILE IRON PIPE
 - DM DIAMETER
 - DCDA DOUBLE CHECK DETECTOR ASSEMBLY
 - EX EXISTING
 - FOA FLANGE COUPLING ADAPTER
 - FLG OR FL FIRE HYDRANT
 - FLG FLANGE
 - FVA FLUSH VALVE ASSEMBLY
 - GV GATE VALVE
 - HDPE HIGH DENSITY POLYETHYLENE
 - HP HIGH POINT
 - IE INVERT ELEVATION
 - MJ MECHANICAL JOINT
 - MRJ MECHANICALLY RESTRAINED JOINT
 - OD OUTSIDE DIAMETER
 - PL OR P/L PROPERTY LINE
 - PO PUSH ON
 - PUE PUBLIC UTILITY EASEMENT
 - PVC POLYVINYL CHLORIDE PIPE
 - R RADIUS
 - RFCA RESTRAINED FLANGE COUPLING ADAPTER
 - R/W RIGHT OF WAY
 - RPBA REDUCED PRESSURE BACKFLOW ASSEMBLY
 - STL STEEL
 - TB THRUST BLOCK
 - TS TEST STATION
 - TYP TYPICAL
 - W WATER
 - WITH WITH
 - XING CROSSING

FOR TMWA USE ONLY NEW BUSINESS WATER			
WO#	Map #		
Date Installed:		Depth:	
Pressure Test Date:			
PSI		Hours Tested:	
Inspector:			
Contractor:			
Feet Laid	Size	Type	Main/Svc
Retired/ Abandoned/Removed			
Feet Ret.	Size	Type	Main/Svc
# of Meter boxes Inst./Size:			
# of Setters Inst./Size:			

895 ROBERTA LANE, SUITE 104, SPARKS, NV 89431
 (775) 359-3303 FAX (775) 359-3329
odyssey ENGINEERING INCORPORATED

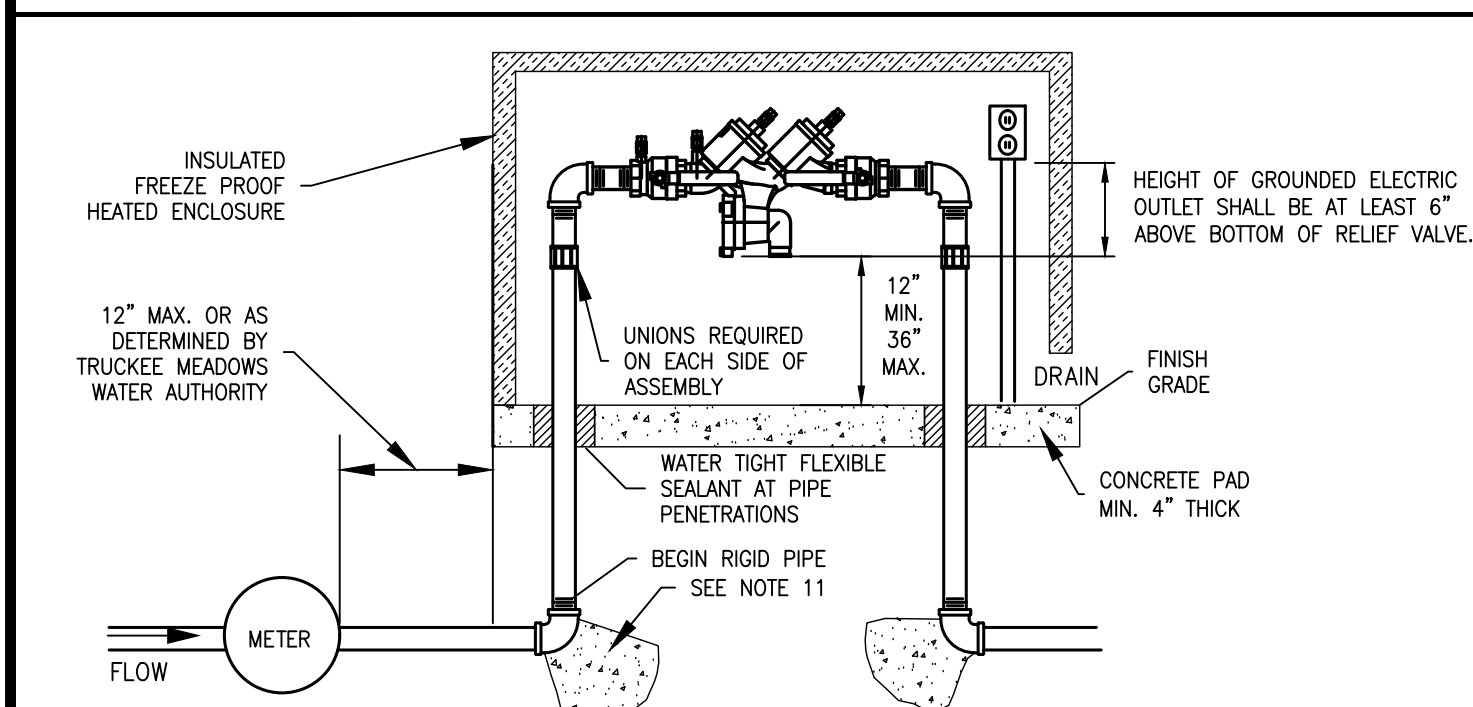
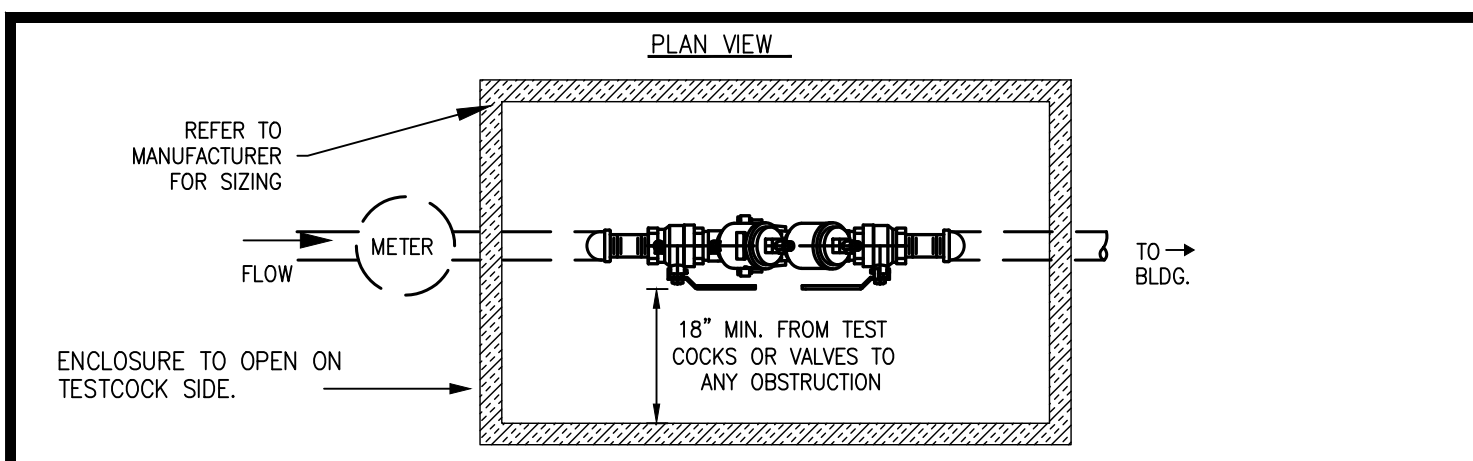


VICINITY MAP ~ NTS

SHEET NUMBER

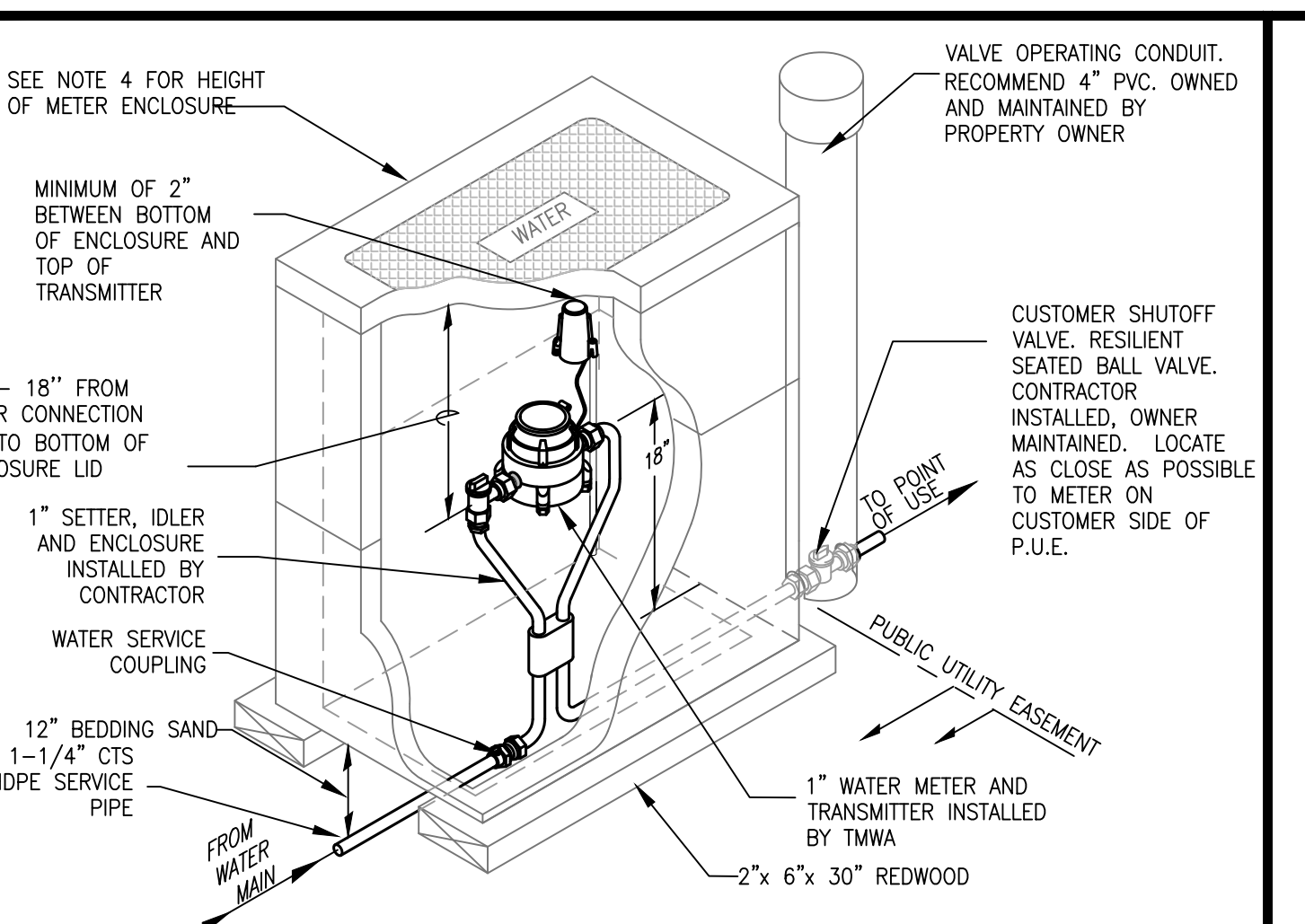
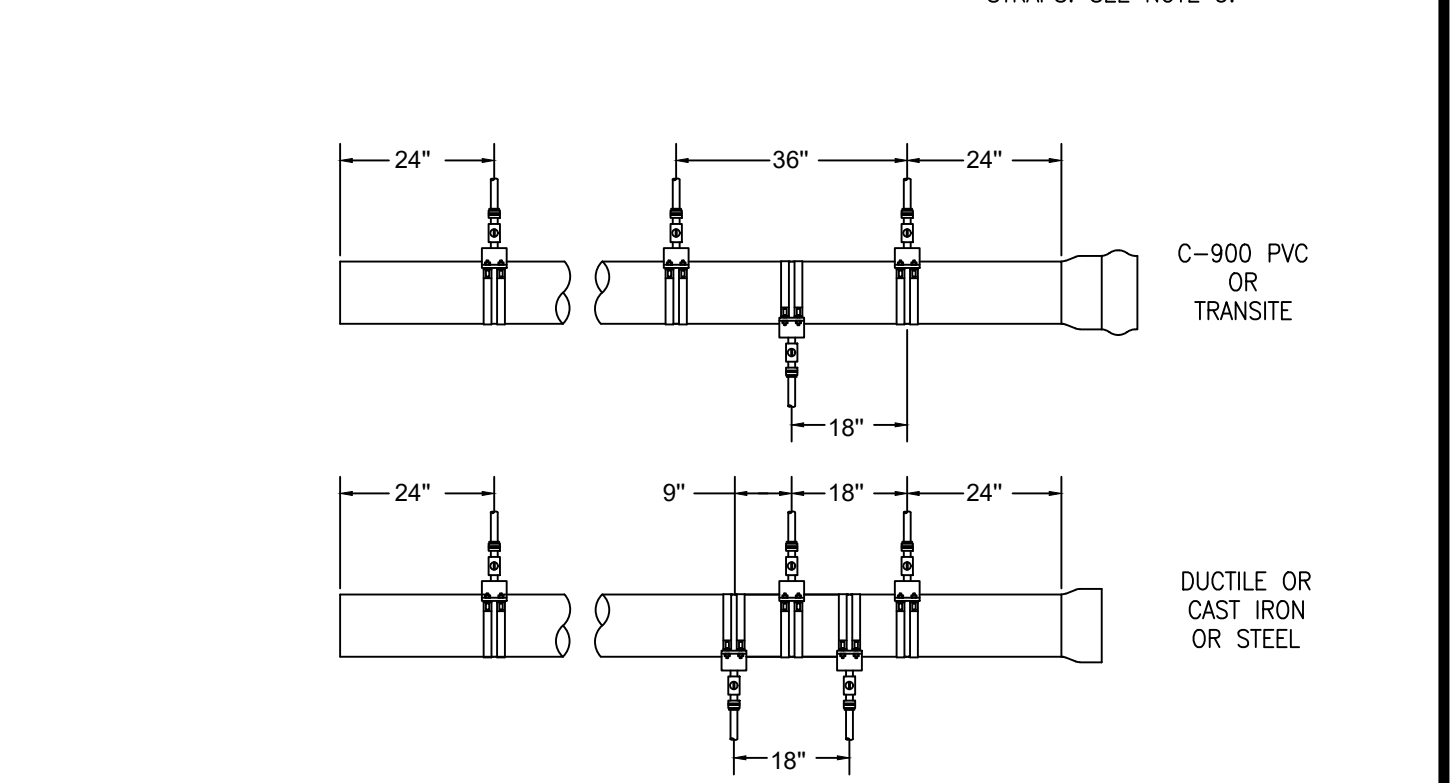
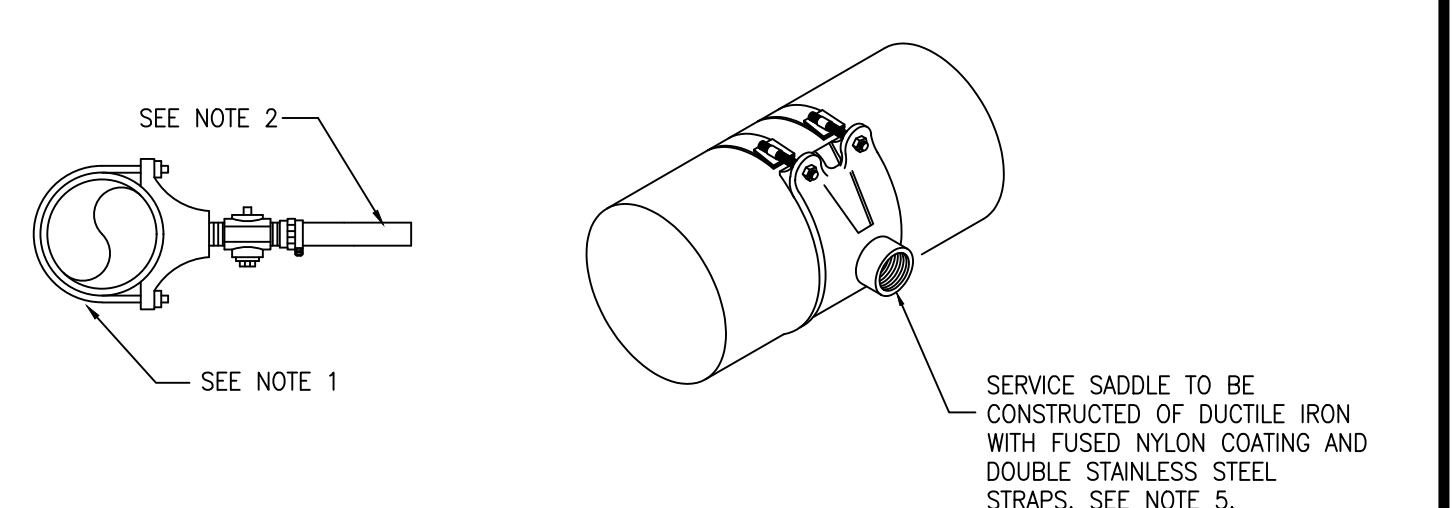
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1 OF 2



- NOTES:
- ASSEMBLY SHALL BE A USC APPROVED LEAD FREE DEVICE.
 - THE RP SHALL BE INSTALLED ABOVE GRADE.
 - GROUNDING ELECTRIC SUPPLY SHALL BE A MINIMUM OF 6" ABOVE BOTTOM OF RELIEF VALVE AND STUBBED TO THE OUTSIDE.
 - NO STOP AND WASTE VALVES.
 - FREEZE PROOF INSULATED BOX AND 1 SOURCE OF HEAT ARE REQUIRED. 2 SOURCES OF HEAT ARE STRONGLY RECOMMENDED.
 - INSULATED BOX SHALL SWING CLEAR OF ASSEMBLY TO PROVIDE CLEARANCES SHOWN OR INSULATED BOX SHALL BE SIZED TO PROVIDE CLEARANCES SHOWN.
 - SPRING LOADED LID REQUIRED ON LARGE BOXES.
 - THERMAL EXPANSION PROTECTION IS REQUIRED IN ANY DOMESTIC WATER SUPPLY SYSTEM THAT IS DOWNSTREAM FROM A BACKFLOW PREVENTION DEVICE. REFERENCE: UNIFORM PLUMBING CODE & NAC 445A.67235.
 - INSPECTION BY TMWA BACKFLOW PREVENTION GROUP PERSONNEL REQUIRED BEFORE METER IS SET OR SERVICE IS ACTIVATED.
 - IF INITIAL TEST DONE BY TMWA FIELD PERSONNEL FAILS, RETESTING OF BACKFLOW ASSEMBLY IS REQUIRED WITHIN 7 DAYS AFTER METER IS SET OR SERVICE ACTIVATION. COPY OF TEST RESULTS TO BE FORWARDED TO TMWA BACKFLOW PREVENTION GROUP BY A CERTIFIED ASSEMBLY WITHIN THAT SAME TIMEFRAME.
 - MINIMUM DIMENSIONS FOR THE THRUST BLOCK BEARING AREA FOR PIPE 2" AND SMALLER SHALL BE 8" X 8" AND 12" IN DEPTH. ALL OTHER SIZES TO BE DETERMINED BY ENGINEER.

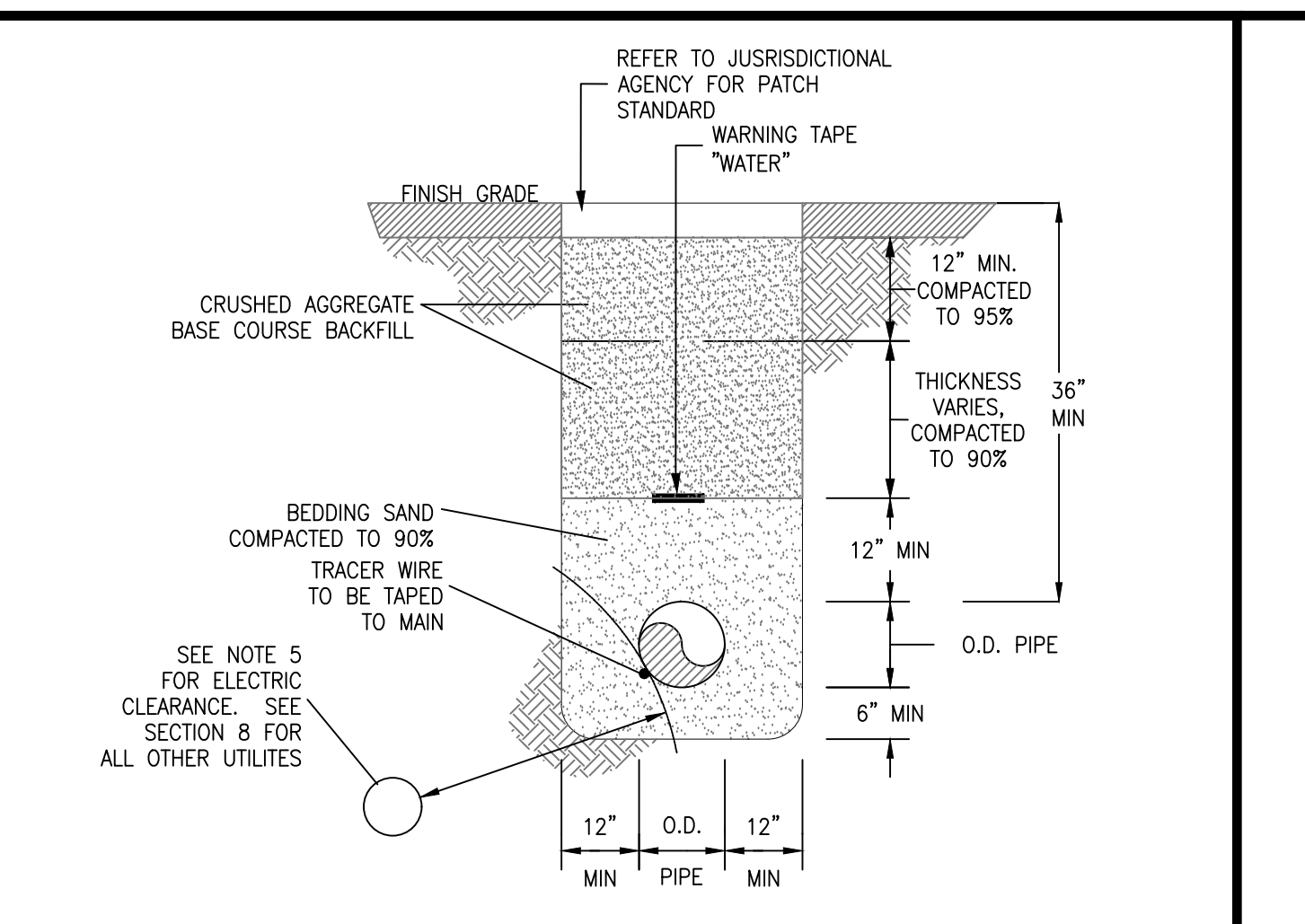
- NOTES:
- SERVICE CLAMP SIZE IS DEPENDENT UPON THE SIZE AND TYPE OF MAIN.
 - SDR-9 CTS HDPE TUBING, LENGTH AND DIAMETER TO BE DETERMINED BY ENGINEER. REFER TO APPROVED PLAN.
 - STOP CORP IP THREAD INLET, COMPRESSION OUTLET, DIAMETER TO MATCH TAP SIZE AS SHOWN ON PLAN.
 - INSERT RIGID STAINLESS STEEL LINER TO SDR-9 CTS HDPE TUBING.
 - SERVICE TAPS OFF OF EXISTING PVC MAINS SHALL USE TAPPED FULL CIRCLE REPAIR CLAMP, MINIMUM LENGTH: 15". MANUFACTURER SHALL BE APPROVED BY TMWA.



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

MATERIAL LIST

ITEM ID	QTY.	DESCRIPTION
MS-1.00	1.0	SETTER WATER METER, NEW 1" MIP ENDS
WSC-1.25x1.00-CTSxFIP	1.0	COUPLING SERVICE 1-1/4" CTS COMPRESSION X 1" FIP
SSL-1.25	1.0	LINER RIGID STAINLESS STEEL FOR 1-1/4" CTS HDPE TUBING
GSKT-1.00	2.0	GASKET-1" FOR WATER METER
WM-DISC-1.00	1.0	1" WATER METER - SUPPLIED AND INSTALLED BY TMWA
ENCL-13x24-NT	1.0	ENCLOSURE NON-TRAFFIC 13 X 24 WATER METERS, SEE NOTE 3
ENCL-13x24-LID-NT	1.0	COVER NON-TRAFFIC 13 X 24, SEE NOTE 3
ENCL-13x24-EXT-NT	1.0	EXTENSION BOX NON-TRAFFIC 13 X 24, SEE NOTE 3
INSL-BLKT-4x4	1.0	BLANKET INSULATION 4" X 4" FOR WATER METERS
RWD-BRD-2x6x30	2.0	BOARD - REDWOOD 2" X 6" X 30"
IDLR-1.00	1.0	IDLER WATER METER 1" SETTER
ERT	1.0	REMOTE TRANSMITTER - SUPPLIED AND INSTALLED BY TMWA



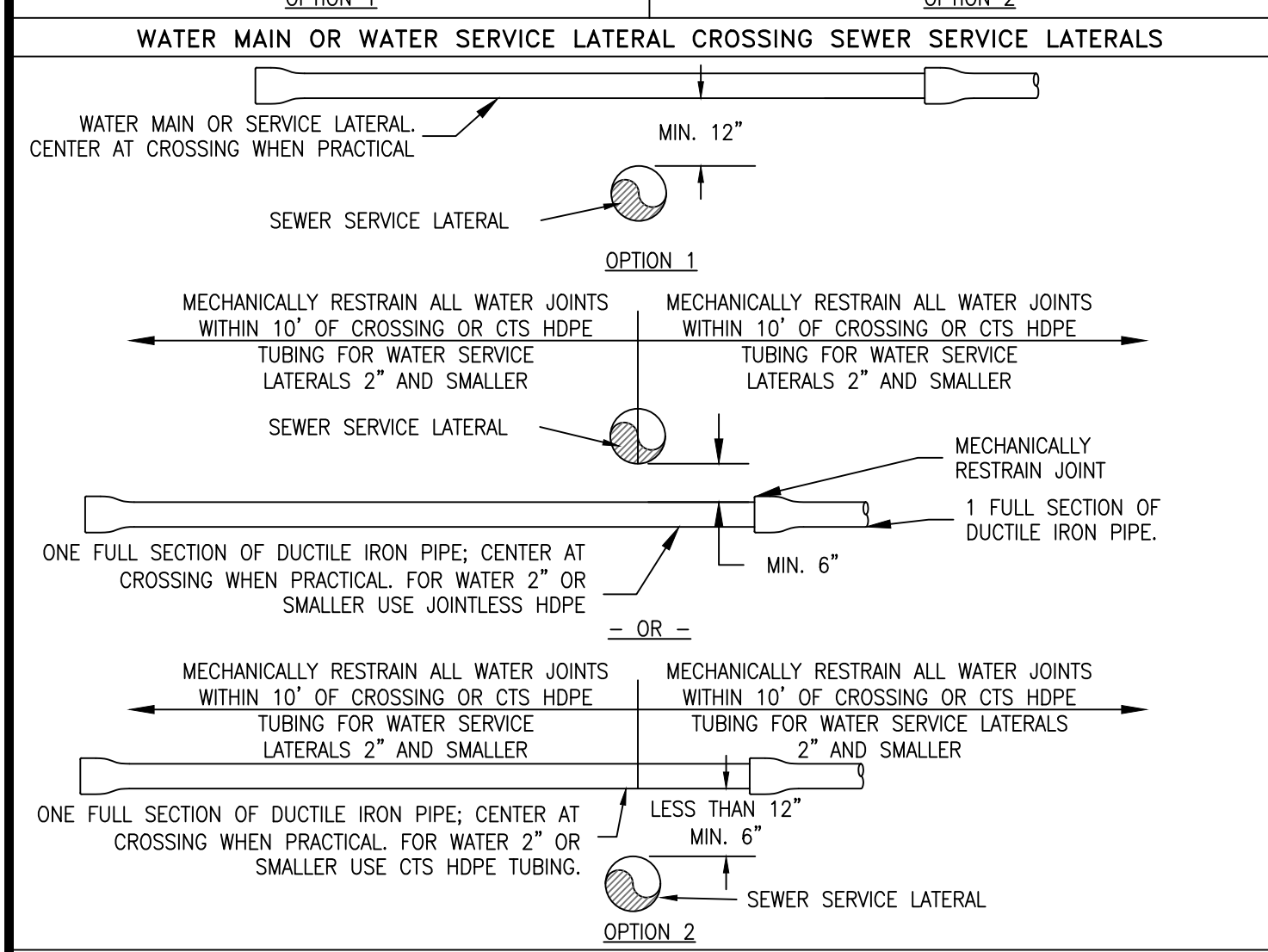
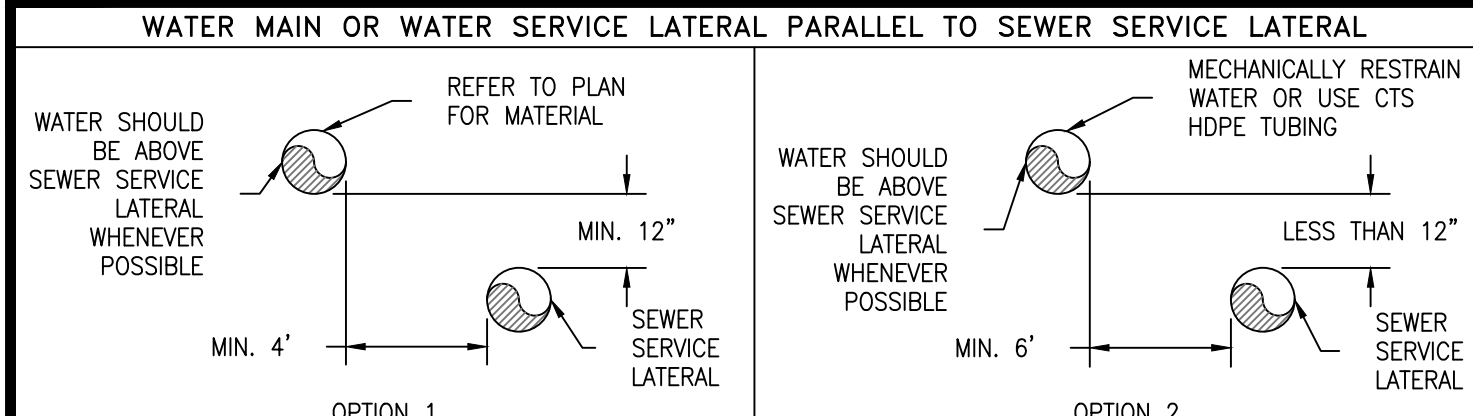
- NOTES:
- ALL TRENCHES MUST CONFORM TO APPLICABLE TMWA, CITY, STATE, COUNTY, AND OSHA SPECIFICATIONS AND REQUIREMENTS. IN THE CASE OF CONFLICT, THE MORE RIGID SPECIFICATION OR STANDARD SHALL APPLY.
 - BEDDING SAND SHALL BE COMPACTED TO 90% MAXIMUM DENSITY PER SECTION 5.05.03 AND SHALL BE A MINIMUM OF 12" ABOVE AND 6" BELOW THE MAIN. PER SECTION 5 OF TMWA STANDARDS.
 - CRUSHED AGGREGATE BASE COURSE BACKFILL SHALL BE PLACED IN 12" MAXIMUM LOOSE LIFTS. THE TOP 12" SHALL BE COMPACTED TO 95% MAXIMUM DENSITY. THE AREA ABOVE THE BEDDING SAND & BELOW 12" FROM FINISH GRADE SHALL BE COMPACTED TO 90% MAXIMUM DENSITY. PER SECTION 5 OF TMWA STANDARDS.
 - NON-METALLIC BLUE WARNING TAPE SHALL BE PLACED IN ALL TRENCHES AT LEAST 12" ABOVE THE WATER MAIN.
 - ELECTRIC UTILITIES MUST BE LOCATED BELOW WATER & MAINTAIN 2" MINIMUM RADIAL CLEARANCE FROM TMWA WATER FACILITIES. IF 2" RADIAL CLEARANCE CAN NOT BE MET ELECTRIC CONDUIT MUST BE CONCRETE ENCASED AT LEAST 18" EACH SIDE OF WATER CROSSING. FIBER OPTIC AND/OR COMMUNICATION CONDUITS SHALL NOT BE PLACED IN THE SAME TRENCH AS WATER.
 - ALL CHANGES MUST BE APPROVED BY THE TMWA INSPECTOR AND/OR THE TMWA ENGINEER.
 - SEPARATION FOR PIPES IN A JOINT TRENCH SHALL BE A MINIMUM OF 12".
 - TRACER WIRE SHALL BE #14 COPPER CLAD STAINLESS STEEL CORE WITH 30 MILS BLUE HDPE INSULATION. ALL WIRE SPLICES SHALL BE MADE USING A SPLIT BOLT CONNECTOR WRAPPED WITH AQUASEAL AND ELECTRIC TAPE. THE CONTRACTOR SHALL INSTALL A 3 POUND ANODE AT EVERY TEST STATION. TEST STATIONS SHALL BE LOCATED ALONG THE MAIN NO MORE THAN 500 FEET APART. REFER TO 10L-9.

TRUCKEE MEADOWS WATER AUTHORITY	DATE	7/2001	APPENDIX 10A	DRAWING NUMBER	10A-2
	REV	9/2016	BACKFLOW PREVENTION ASSEMBLIES		
			REDUCED PRESSURE PRINCIPLE ASSEMBLY FOR DOMESTIC USE EXTERNAL - HORIZONTAL		

TRUCKEE MEADOWS WATER AUTHORITY	DATE	7/2001	APPENDIX 10H	DRAWING NUMBER	10H-2
	REV	9/2016	SERVICE TAP INSTALLATIONS		
			FOR 1", 1.25", 1.5" AND 2" SERVICE TAPS		

TRUCKEE MEADOWS WATER AUTHORITY	DATE	6/2004	APPENDIX 10K	DRAWING NUMBER	10K-8
	REV	7/2011	WATER METERS - SMALL		
			NEW COMMERCIAL INSTALLATION 1-1/4" SINGLE SERVICE FOR 1" SETTER, METER AND TRANSMITTER		

TRUCKEE MEADOWS WATER AUTHORITY	DATE	7/2011	APPENDIX 10L	DRAWING NUMBER	10L-6
	REV	02/2014	MISCELLANEOUS WATER DETAILS		
			TRENCH DETAIL WATER ONLY		



- NOTES:
- OPTION 1 SHOULD BE UTILIZED WHEN POSSIBLE.
 - NON-PRESSURIZED SEWER SERVICE LATERALS SHALL BE SDR 35 PVC. IF SEWER SERVICE LATERALS ARE NON SDR 35 PVC, SEWER SERVICE LATERALS SHALL BE ENCASED IN 4" OF EXCAVABLE SLURRY, USE EXTERNAL JOINT SEALANT OR OTHER MITIGATION TO ENSURE JOINTS ARE WATERTIGHT. WHERE THE SEWER SERVICE LATERALS ARE PRESSURIZED, THE SEWER SERVICE LATERALS SHALL HAVE MECHANICALLY RESTRAINED JOINTS OR SHALL USE WELDED OR FUSED PIPE.
 - ALL MECHANICALLY RESTRAINED WATER PIPES SHALL BE DUCTILE IRON WITH POLYETHYLENE WRAP PER ANWA C105.
 - FOR WATER SERVICE LATERALS 2" AND SMALLER THERE SHALL BE NO JOINTS OR FITTINGS BETWEEN THE WATER MAIN AND THE WATER METER.

TRUCKEE MEADOWS WATER AUTHORITY	DATE	02/2014	APPENDIX 10L	DRAWING NUMBER	10L-12
	REV		MISCELLANEOUS WATER DETAILS		
			WATER MAIN OR WATER SERVICE LATERAL PARALLEL TO OR CROSSING SEWER SERVICE LATERAL		

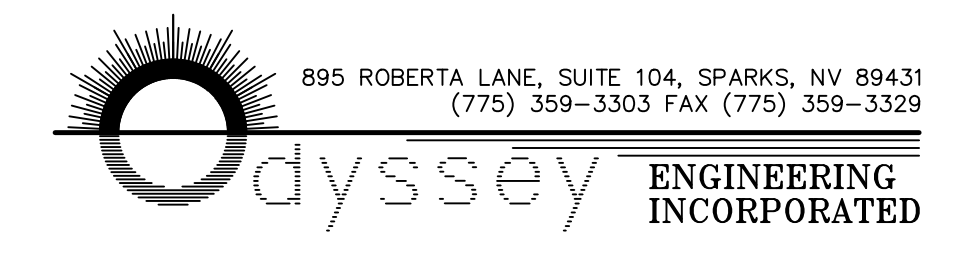


WORK ORDER NO. XX-XXXX
 DESIGNED: ODYSSEY ENGINEERING
 DRAWN: ACO 2023
 DATE: APRIL 2023
 CHECKED: _____
 SUBMITTED: _____
 RECOMMENDED: _____
 APPROVED: _____

TRUCKEE MEADOWS WATER
 U T H O R I T Y
 1365 CAPITAL BLVD / PO BOX 30013
 PRIMO, NHTD, NV 89409 / FAX 775-834-8003
 FAX 775-834-8000 / FAX 775-834-8003

2901 N TRUCKEE LN COMSVG
WO#: XX-XXXX
WATER DETAILS

NOT FOR CONSTRUCTION



Restroom Building

SHELLY PARK

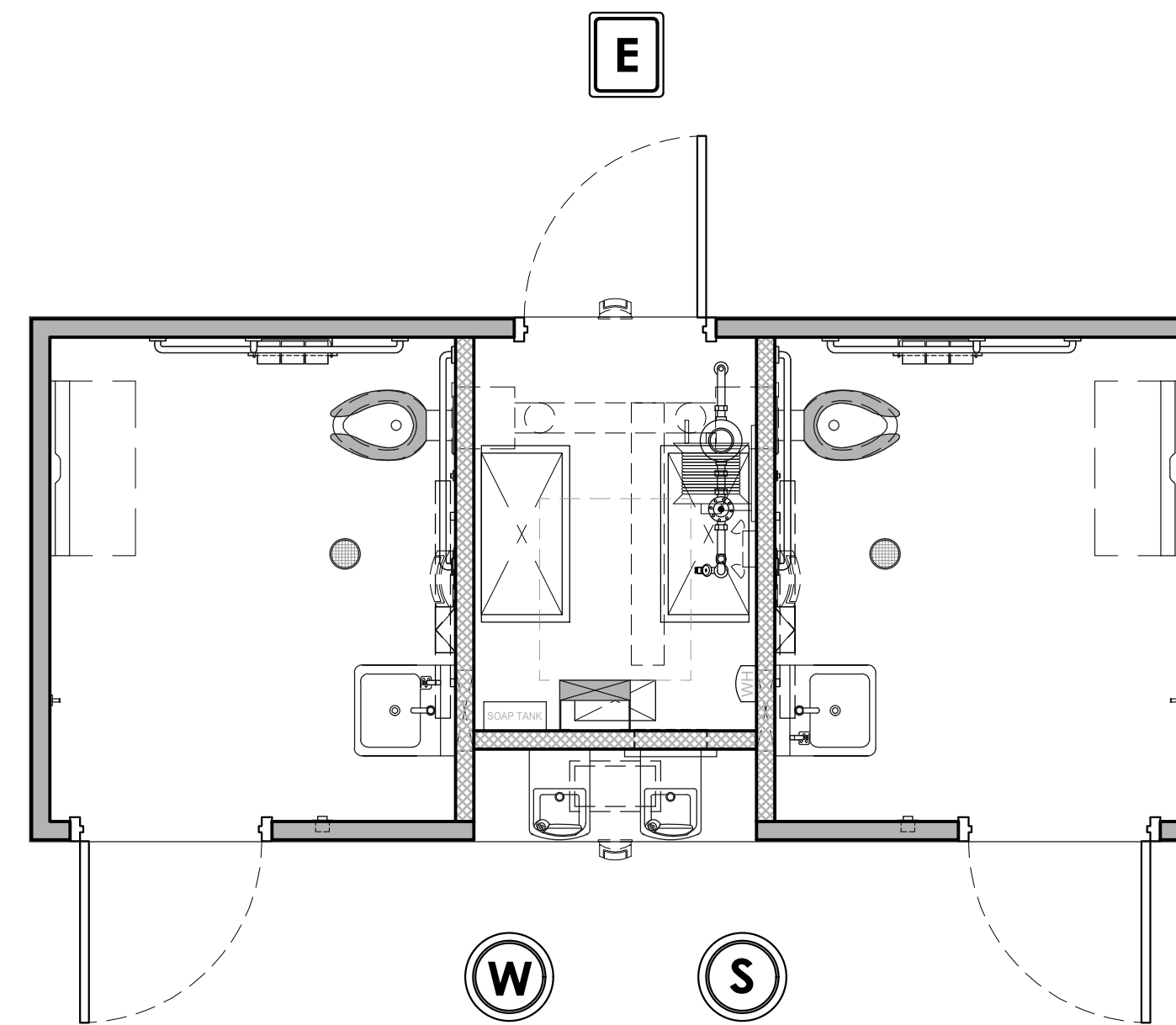
Sparks, NV

CODE COMPLIANCE

APPLICABLE CODES:	2018 INTERNATIONAL BUILDING CODE w/ NORTHERN NV AMENDMENTS 2018 UNIFORM PLUMBING CODE w/ NORTHERN NV AMENDMENTS 2017 NATIONAL ELECTRIC CODE w/ NORTHERN NV AMENDMENTS 2018 UNIFORM MECHANICAL CODE OF NEVADA 2018 INTERNATIONAL ENERGY CONSERVATION CODE w/ NORTHERN NV AMENDMENTS ACCESSIBILITY - WHICHEVER IS MORE STRINGENT ANSI A117.1-2009 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
TYPE OF CONSTRUCTION:	V-B
DESCRIPTION:	RESTROOM BUILDING
OCCUPANCY:	U (WITH ACCESSIBILITY PROVISIONS)
FLOOR AREA:	
RESTROOMS, MECHANICAL ROOM & ALCOVE	168 s.f.
PRC JOB NUMBER:	10711
PRC MODEL NUMBER:	PS-022-DF-BF
NUMBER OF MODS:	1

GENERAL NOTES

- THE STRUCTURAL DESIGN DETAILS HEREIN ARE SPECIFIC TO THE BUILDING SIZE AND MODULE CONFIGURATION SHOWN ON THE FLOOR PLAN OF THESE DRAWINGS.
- LOCATION OF THIS BUILDING SHALL MEET REQUIRED PROPERTY CODE SETBACKS PER LOCAL JURISDICTION.
- ACCESSIBILITY TO THIS STRUCTURE SHALL BE IN CONFORMANCE WITH LOCAL CODE INCLUDING ALL PATHWAYS, RAMPS AND PATHS OF TRAVEL FROM PARKING TO THE BUILDING.
- SOIL BEARING REQUIREMENT IS 1500 PSF, SUB GRADE COMPACTION AT 90%.
- BUILDING PLUMBING SYSTEM IS BASED UPON FULL FLOW EXISTING WATER SERVICE. LOSS OF REQUIRED FLOW RATE OF 10 GPM OR PRESSURE BELOW 35 PSI MAX MAY NECESSITATE AN INTERMEDIATE WELL TANK AND CHECK VALVE IN LINE.
- ALL DIMENSIONS HEREIN ARE NOMINAL AND SUBJECT TO CHANGE AS LONG AS THEY DO NOT VIOLATE CODE.
- THIS BUILDING IS DESIGNATED AS A NON-HABITABLE SPACE AND IS NOT DESIGNED TO BE HEATED OR COOLED.
- THIS BUILDING DOES NOT CONFORM WITH IEC MINIMUM INSULATION REQUIREMENTS AS THIS IS A NON-HABITABLE STRUCTURE.
- THIS BUILDING IS NOT DESIGNED OR APPROVED FOR WUI LOCATION.
- ALL WORK REQUIRED TO BE COMPLETED ON SITE SUBJECT TO LOCAL REVIEW, APPROVAL AND INSPECTION (BY OWNER)
 - SITE CONCRETE FOUNDATION (IF APPLICABLE)
 - COMPACTED BUILDING PAD ENGINEERED
 - UNDER SLAB UTILITY PIPING (SEE NOTE)
 - ELECTRICAL SERVICE AS REQUIRED
 - WATER SERVICE AS REQUIRED
 - SEWER (DWV) SERVICE AS REQUIRED
 - CONCRETE WALKWAY COMPLIANT WITH PATH OF TRAVEL FROM ACCESSIBLE PARKING
- NOTE: PUBLIC RESTROOM COMPANY WILL ONLY FURNISH AND INSTALL UNDERGROUND UTILITIES (UNDER SLAB) EXTENDING 6 FEET (MAX.) BEYOND THE BUILDING LINE. MIN. OF 24" - MAX. OF 36" BELOW GRADE - U.N.O.
- SITE INSTALLATION DETAILS ARE NOTED ON SHEET S-1 FOR STRUCTURAL CONNECTIONS, A-2 FOR WEATHERIZATION FINISH, P-1 FOR PLUMBING CONNECTIONS & E-1 FOR ELECTRICAL CONNECTIONS IN ACCORDANCE w/ SECTION 4368.
 - SERVICE HOOKUPS (PLUMBING AND ELECTRICAL CONNECTIONS).
 - PATCH AND FINISH AT CRANE PICK LOCATIONS AS NEEDED.
 - INSTALL AND CONNECT PLUMBING DRAIN TRAPS ASSEMBLIES PER P-1 HEREIN.



Utility Location

NOTE: FINAL LOCATIONS OF P.O.C. TO BE COORDINATED WITH P.R.C. AND TO BE CONFIRMED ON SITE. UTILITY BOXES TO BE PROVIDED BY OTHERS.

PROJECT INFORMATION

SITE ADDRESS: **SHELLY PARK** - 2901 N Truckee Ln, Sparks, NV 89434

PROJECT OWNER:
CITY of SPARKS, NV
 431 Prater Way
 Sparks, NV 89431
 CONTACT: Robert Bidart
 POSITION: Senior Civil Engineer
 PHONE: (775) 224-2976
 FAX: (775) 784-9848
 EMAIL: rbidart@cityofsparks.us

STRUCTURAL ENGINEER:
R & S TAVARES ASSOCIATES
 1590 W. Bernardo Court, Suite 100
 San Diego, CA 92127
 CONTACT: Mariana Cardoso
 POSITION: Controller
 PHONE: (858) 444 3344
 FAX: (858) 444 3344
 EMAIL: mariana@rstavares.com

DESIGNER / CERTIFIED MANUFACTURER:
PUBLIC RESTROOM COMPANY
 2587 Business Parkway
 Minden, NV 89423
 CONTACT: Chad Kaufman
 PHONE: (888) 888-2060
 FAX: (888) 888-1448
 E-MAIL: chad@publicrestroomcompany.com

APPROVED
 NRS 461 OR NRS 489
 FACTORY BUILT HOUSING
 STATE OF NEVADA

BY:

63102

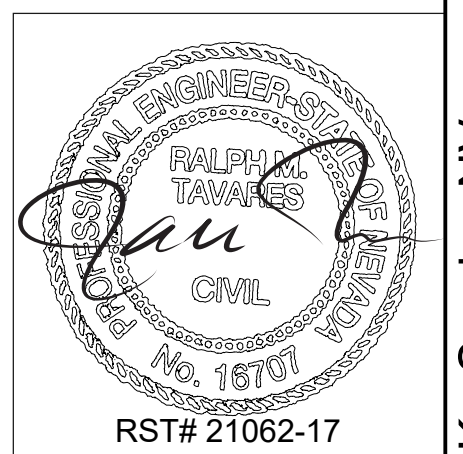
DRAWING INDEX

SHEETS		PM PLAN REVIEW - 09/21/2022	PRC PLAN REVIEW - 12/13/2022	STRUCTURAL REVIEW - 12/21/2022	CONSTRUCTION DOCUMENTS - 01/12/2023
T-1	TITLE SHEET	●	●	●	●
AC	ACCESSIBILITY COMPLIANCE	●	●	●	●
A-1	FLOOR PLAN, STRUCTURAL DESIGN & SCHEDULES	●	●	●	●
A-1.1	TOP OF THE WALL CAP BEAM & ROOF FRAMING PLANS, BUILDING SECTIONS	●	●	●	●
A-2	EXTERIOR ELEVATIONS & FINISH SCHEDULE	●	●	●	●
A-3	EQUIPMENT PLAN, INTERIOR ELEVATIONS & SCHEDULES	●	●	●	●
P-1	PLUMBING PLAN & SCHEDULES	●	●	●	●
E-1	ELECTRICAL PLAN & SCHEDULES	●	●	●	●
S-1	CONCRETE SLAB & STEEL PERIMETER PLAN & DETAILS	●	●	●	●

DESIGN LOADS

STRUCTURAL DESIGN CRITERIA				
GRAVITY LOADS	FLOOR LIVE	100 psf	SEISMIC DESIGN CATEGORY	D
	FLOOR DEAD	100 psf	SITE CLASS	D
	ROOF LIVE	20 psf	IMPORTANCE CATEGORY	1.00
	ROOF DEAD	10 psf	OCCUPANCY CATEGORY	II
SNOW	EXTERIOR WALL DEAD	50 psf	MAPPED ACCELERATIONS	S_s 1.436 S_1 0.503
	GROUND SNOW, P_g	0 psf	SPECTRAL RESPONSE	S_{DS} 1.149 S_{D1} 0.60
	FLAT-ROOF SNOW, P_f	0 psf	SEISMIC FORCE RESISTING SYSTEM	A7
	IMPORTANCE FACTOR, I_s	1.00	DESIGN BASE SHEAR	0.90W
WIND	THERMAL FACTOR, C_t	1.00	RESPONSE MODIFICATION FACTOR	5.0
	EXPOSURE FACTOR, C_e	1.00	ANALYSIS PROCEDURE	ASCE7-16
	WIND SPEED, V_{ult}	110 mph	FLOOD	BUILDING SHALL NOT BE LOCATED, IN WHOLE OR IN PART, IN A FLOOD HAZARD AREA AS ESTABLISHED BY THE AUTHORITY HAVING JURISDICTION UNLESS SET ON A FOUNDATION DESIGNED IN ACCORDANCE WITH ASCE/SEI 25. THE FLOOD RESISTANT FOUNDATION SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL AND CONSTRUCTED TO RESIST ALL FLOOD LOADS WITHOUT TRANSFERRING LOADS TO THE MODULAR STRUCTURE.
	EXPOSURE CATEGORY	C	INTERNAL PRESSURE, GCP_i	+/- 0.18
RISK CATEGORY	II	MEAN ROOF HEIGHT	15 FT	
BUILDING SHALL NOT BE PLACED ON THE UPPER HALF OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT				

COMPONENTS & CLADDING WIND LOADS (ASD)		
COMPONENT	END ZONE (psf)	INTERIOR ZONE (psf)
WINDOWS & SIDING	+35.4 / -35.4	+28.6 / -28.6
DOORS	+35.4 / -35.4	+28.6 / -28.6
ROOF CLADDING	+71.2 / -71.2	+48.8 / -48.8
ROOF OVERHANGS	+84.6 / -84.6	+71.2 / -71.2



RST# 21062-17
01.17.2023

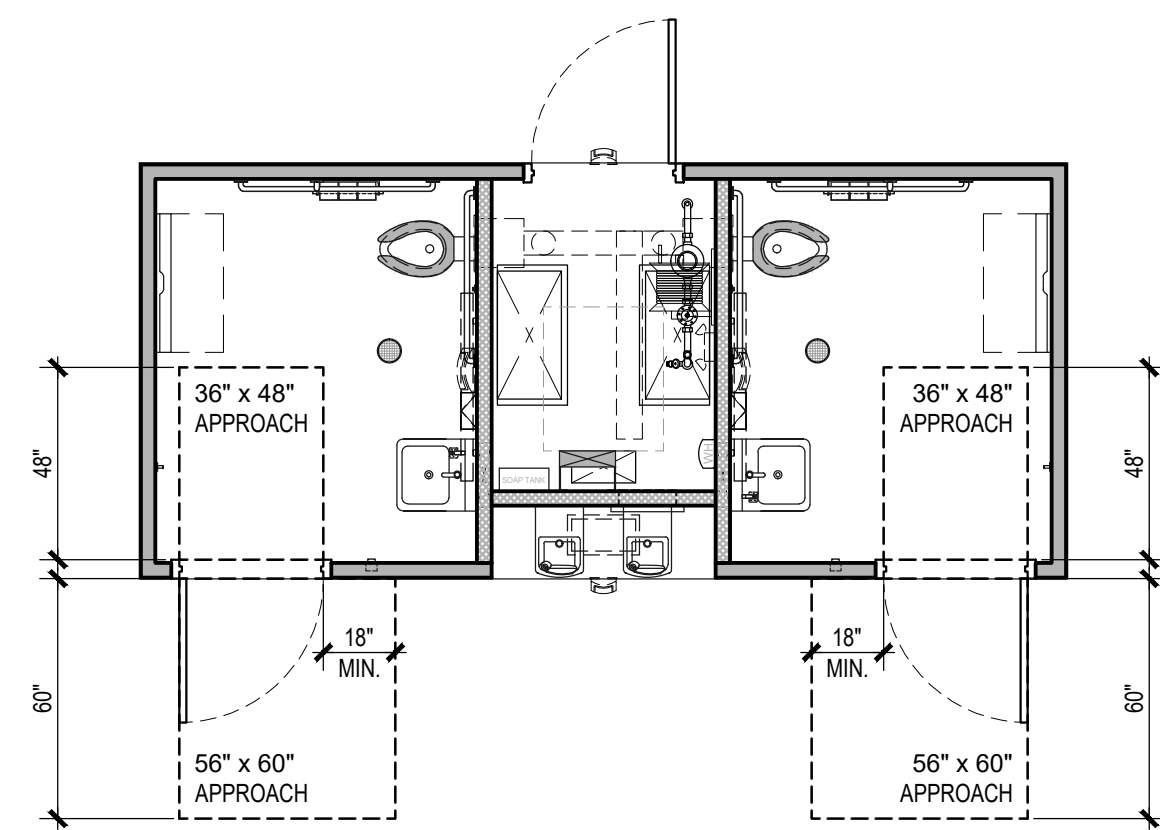
DO NOT SCALE - DIMENSIONS PRESIDE
24x36 SHEET - SCALE AS NOTED
11x17 SHEET - NTS

No.	Description	Date	CONSTRUCTION DOCUMENTS	COPYRIGHT 2022, PUBLIC RESTROOM COMPANY THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF PUBLIC RESTROOM COMPANY AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY THE WRITTEN PERMISSION OF PUBLIC RESTROOM COMPANY	PROJECT OWNER:	PROJECT NAME AND LOCATION:	SHEET TITLE:	Drawn by:	NS	Job No.	10711
			01/12/2023		CITY of SPARKS Sparks, NV	SHELLY PARK Sparks, NV	TITLE SHEET		RR		T-1
								Checked by:			
								Current Date:	01/12/2023		
								Start Date:	09/13/2022		

12/23/23 4:25 PM

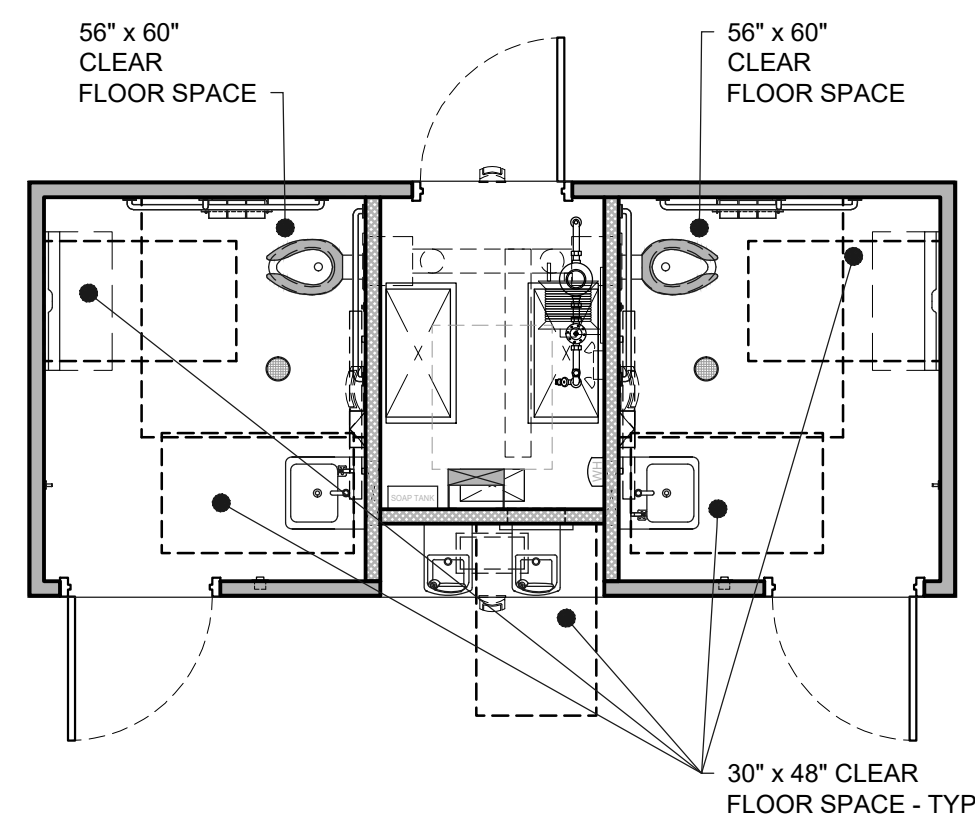
CONSTRUCTION DOCUMENTS - 01/12/2023

SHELLY PARK - Sparks, NV



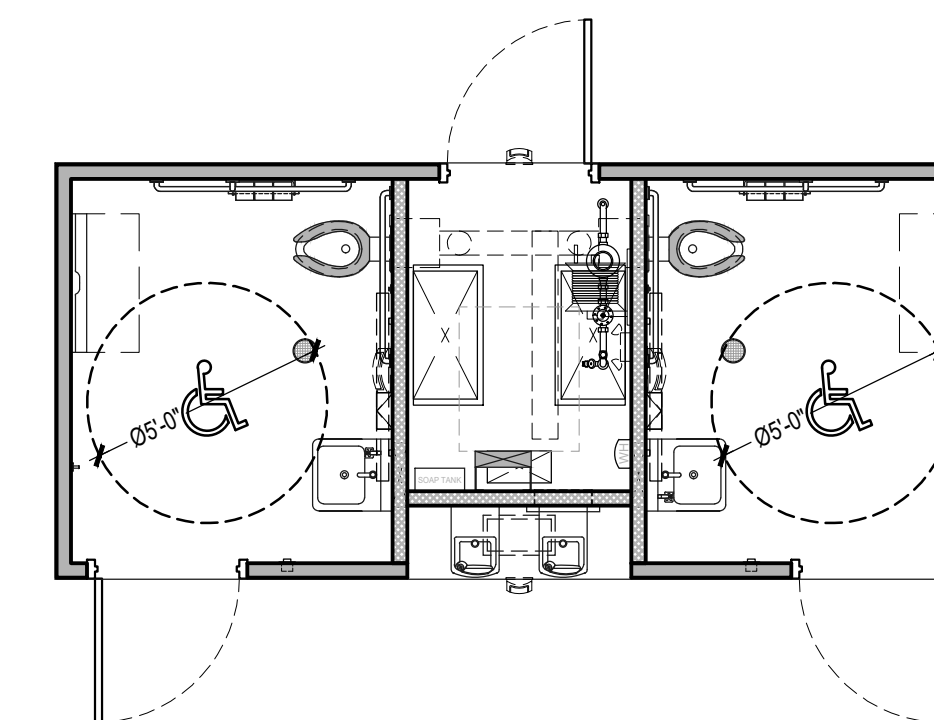
DOOR APPROACH

SCALE: 1/4"=1'-0"



FIXTURE APPROACH

SCALE: 1/4"=1'-0"



TURNING RADIUS

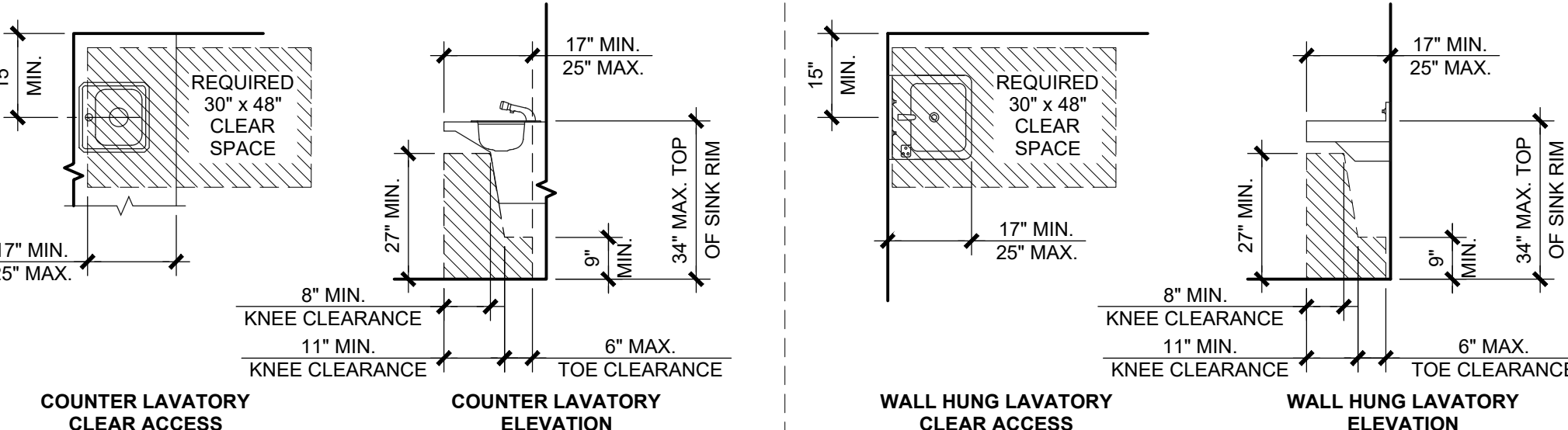
SCALE: 1/4"=1'-0"

ICC / ANSI A117.1 2009 ACCESSIBILITY STANDARDS

(SHOWING MINIMUMS AND MAXIMUMS)

* PUBLIC RESTROOM COMPANY STANDARDS ARE FOR PRODUCTION PERSONNEL TO BE USED AS A GUIDELINE TO ENSURE FIXTURES ARE INSTALLED WITHIN THE REQUIRED RANGES PER CODE, AND MAY NOT BE EXACT ONCE INSTALLED DUE TO FLOOR SLOPES, TOLERANCES, ETC.

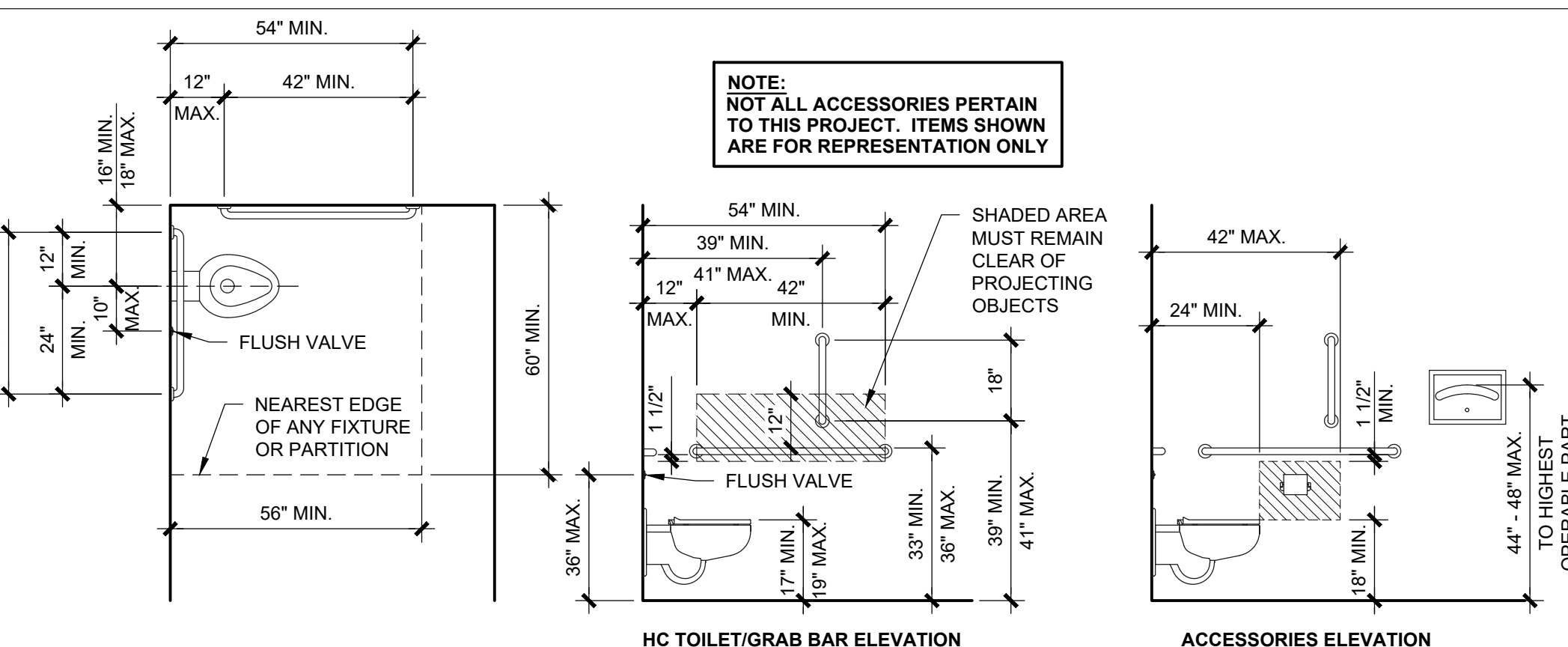
NOTE: NOT ALL ACCESSORIES PERTAIN TO THIS PROJECT. ITEMS SHOWN ARE FOR REPRESENTATION ONLY



NOTE: WATER SUPPLY AND DRAIN PIPES UNDER LAVATORIES ARE TO BE COVERED TO PROTECT AGAINST CONTACT

	CODE SUMMARY HEIGHT A.F.F. / LOC	PUBLIC RESTROOM COMPANY STANDARDS*
RIM HEIGHT (TOP OF LAV.)	34" MAX.	33" PREFERRED BUT MUST HAVE 27" KNEE SPACE MIN.
HEIGHT OF KNEE SPACE	27" MIN. AT FRONT APRON	PER CODE
FRONT LAV TO TRAP	27" MIN. AT 8" IN FROM FRONT	PER CODE
TOE SPACE UNDER TRAP	9" MIN.	PER CODE
CONTROLS	DECK MOUNT AT 34" MAX.	33" PREFERRED
CLEAR SPACE	30" x 48"	PER CODE

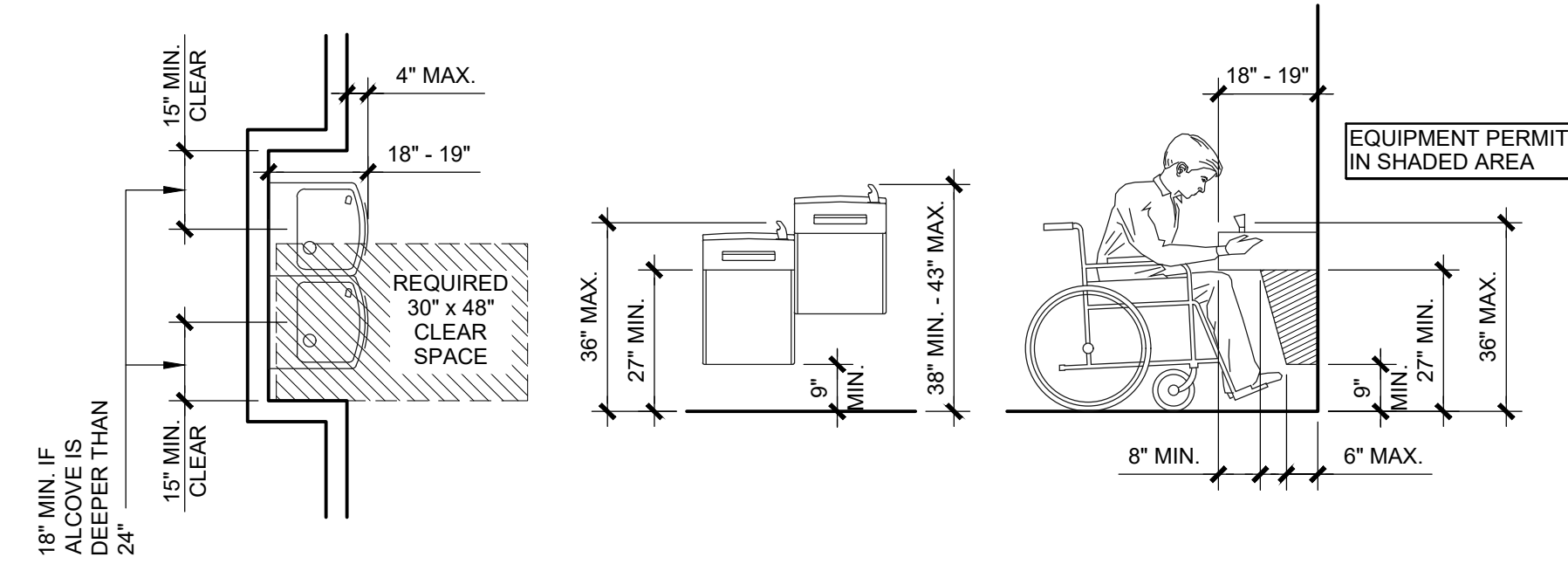
2 - LAVATORY DESIGN CRITERIA



NOTE: SPACE BETWEEN GRAB BAR AND WALL TO BE 1 1/2" CLEAR
 * GRAB BAR DIAMETER TO BE 1 1/4" to 1 1/2"
 * GRAB BAR MUST BE ABLE TO SUPPORT 250lb POINT LOAD AND NOT ROTATE WITHIN THE FITTINGS

	CODE SUMMARY HEIGHT A.F.F. / LOC	PUBLIC RESTROOM COMPANY STANDARDS*
GRAB BARS	33" MIN. / 36" MAX. TO TOP	34" TO TOP
TOILET LOCATION	16" MIN. / 18" MAX. TO CENTERLINE	17 1/2" TO CENTERLINE
TOILET/SEAT	17" MIN. / 19" MAX.	18" TO TOP OF SEATING SURFACE
TOILET FLUSH VALVE	40" MAX., 10" TO WIDE SIDE	CENTERLINES TO BE 28" AFF AND 10" FROM CENTER OF WC
SURFACE MOUNTED TOILET PAPER DISPENSER	HEIGHT OF DISPENSER OUTLET TO BE 18" MIN. A.F.F. & 1 1/2" MIN. FROM BOTTOM OF GRAB BAR. OUTLET TO BE LOCATED WITHIN AN AREA 24" MIN. - 42" MAX. FROM REAR WALL	8" FROM FRONT OF WATER CLOSET TO CENTER OF DISPENSER & 30" TO TOP OF FIXTURE

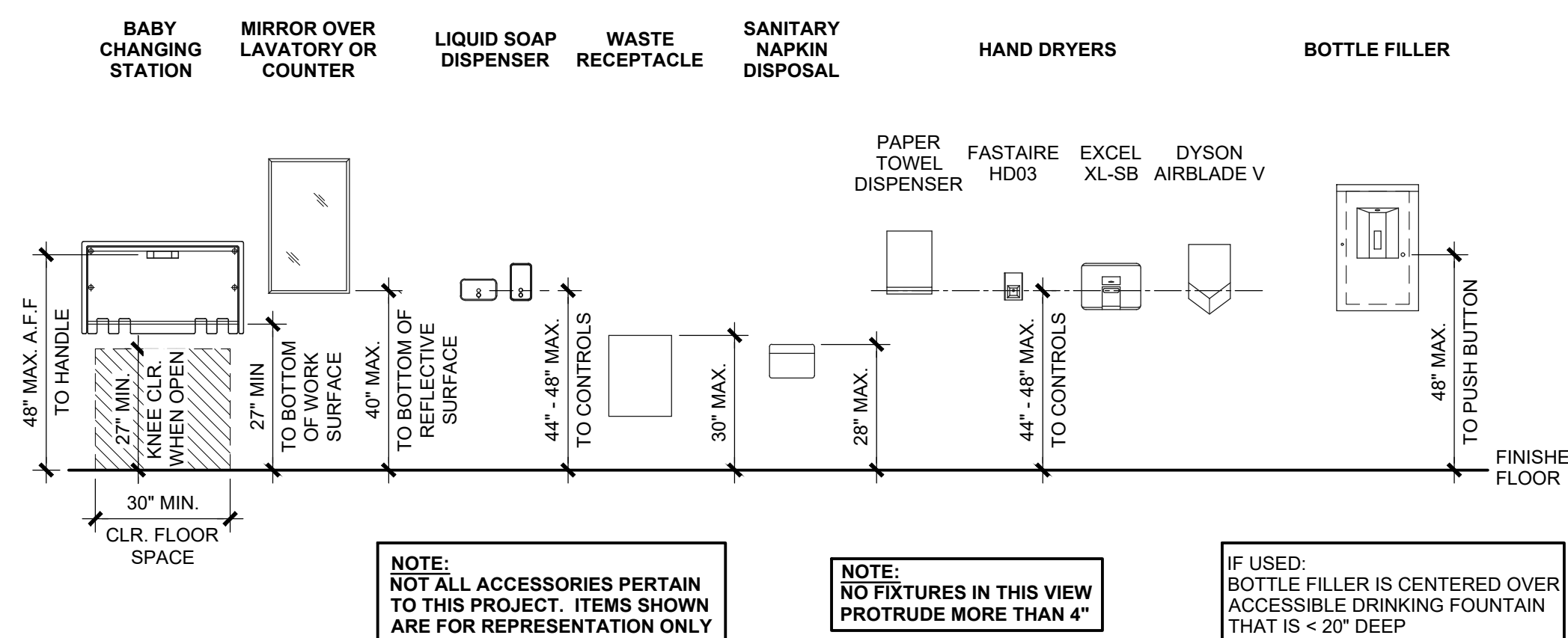
1 - TOILET DESIGN CRITERIA



	CODE SUMMARY HEIGHT A.F.F. / LOC
TOP OF BUBBLER OUTLET	36" MAX. @ WHEELCHAIR ACCESSIBLE 38" MIN. - 43" MAX. @ STANDING HEIGHT
KNEE CLEARANCE	27" MIN.
TOE CLEARANCE	9" MIN.
APPROACH	30" x 48"

NOTE: D.F. ACTIVATOR TO BE WITHIN 6" OF FRONT EDGE OF D.F.

3 - DRINKING FOUNTAIN



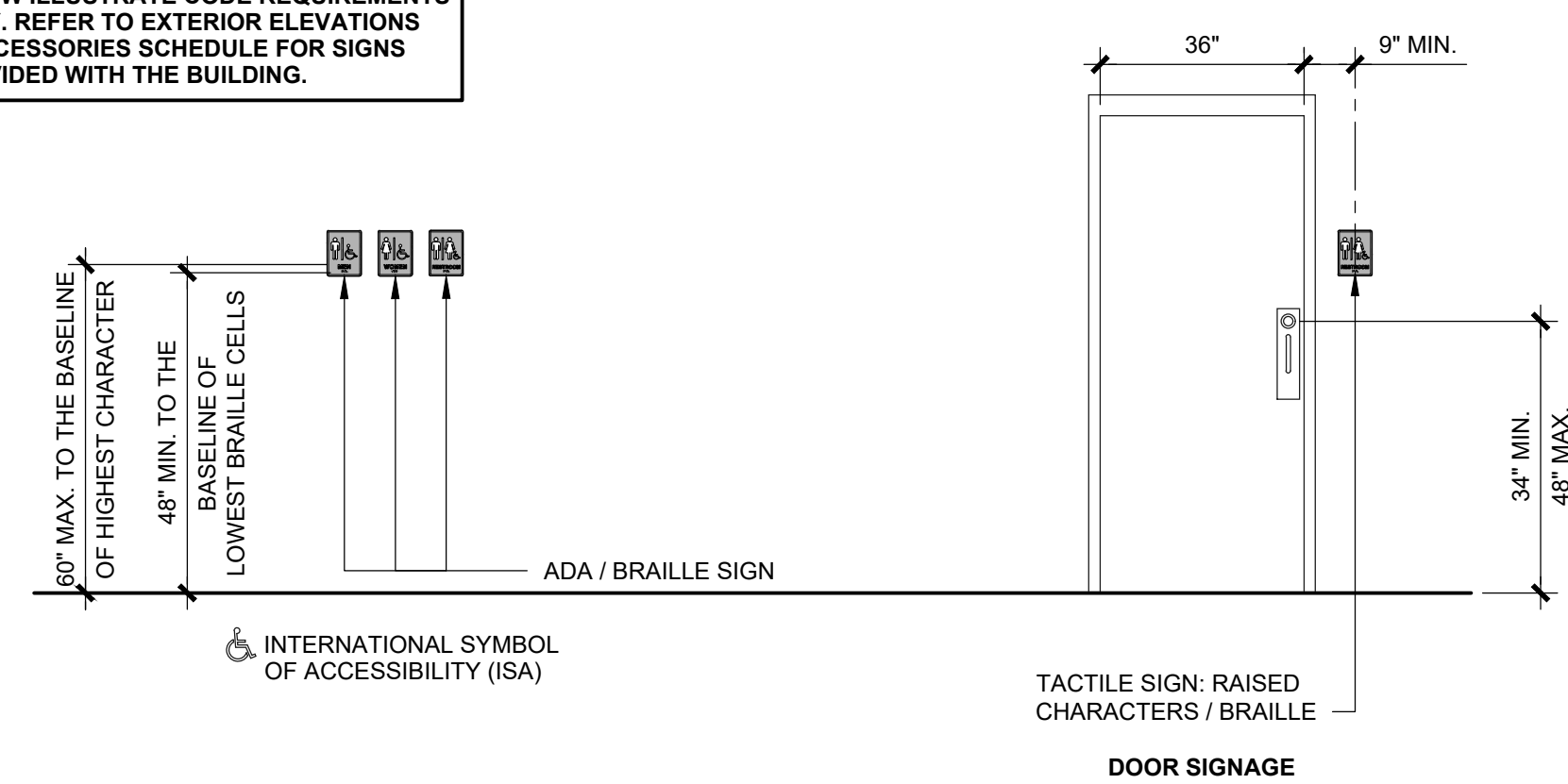
NOTE: NOT ALL ACCESSORIES PERTAIN TO THIS PROJECT. ITEMS SHOWN ARE FOR REPRESENTATION ONLY

NOTE: NO FIXTURES IN THIS VIEW PROTRUDE MORE THAN 4"

IF USED: BOTTLE FILLER IS CENTERED OVER ACCESSIBLE DRINKING FOUNTAIN THAT IS < 20" DEEP

4 - ACCESSORIES MOUNTING HEIGHT

NOTE: RESTROOM IDENTIFICATION SIGNS SHOWN BELOW ILLUSTRATE CODE REQUIREMENTS ONLY. REFER TO EXTERIOR ELEVATIONS & ACCESSORIES SCHEDULE FOR SIGNS PROVIDED WITH THE BUILDING.



5 - RESTROOM SIGNS AT DOORS AND GATES

No.	Description	Date

CONSTRUCTION DOCUMENTS
01/12/2023

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PUBLIC RESTROOM COMPANY
Building Better Places To Go.
2507 Business Pkwy., Minden, NV 89423
Ph: 888-888-2000 | Fax: 888-888-1448

PROJECT OWNER:
CITY OF SPARKS
Sparks, NV

PROJECT NAME AND LOCATION:
SHELLY PARK
Sparks, NV

SHEET TITLE:
ACCESSIBILITY COMPLIANCE

Drawn by: **NS** Job No. **10711**
 Checked by: **RR**
 Current Date: **01/12/2023**
 Start Date: **09/13/2022**

AC

PROFESSIONAL ENGINEER
RALPH TAVARES
No. 16707
RST# 21062-17
01.17.2023

DOOR, FRAME & HARDWARE SCHEDULE												
DOOR NO.	ROOM NAME	SIZE	1 DOOR TYPE	2 FRAME TYPE	3.a HINGE	4 LOCK	5.a CLOSER	5.b PULL PLATE OUTSIDE	5.b PUSH PLATE INSIDE	5.c THRESH	5.d SWEEP	6 OTHER
1	ACCESSIBLE UNISEX RR-1	3'-0" x 7'-0"	1.a	2.a	CONT.	4.a.1	YES	YES	YES	YES	YES	6.a, 6.b
2	ACCESSIBLE UNISEX RR-2	3'-0" x 7'-0"	1.a	2.a	CONT.	4.a.1	YES	YES	YES	YES	YES	6.a, 6.b
3	MECHANICAL ROOM	3'-0" x 7'-0"	1.a	2.a	CONT.	4.a.1	NO	YES	YES	YES	YES	6.b, 6.c

SPECS:

- DOOR TYPES:**
 - 14 GA. GALVANIZED HOLLOW METAL
- DOOR FRAMES:**
 - 14 GA. GALVANIZED HOLLOW METAL WELDED JAMBS
- HINGE:**
 - CONT = PEMKO KCFM-83" HD CONTINUOUS GEAR HINGE w/ STAINLESS STEEL VANDAL RESISTANT SCREWS (OR EQUAL).
- LOCK:**
 - DEADBOLT: SCHLAGE B SERIES 626 w/ TEMPORARY CONSTRUCTION FULL SIZE INTERCHANGEABLE CORE (F5IC)
1) B660 - KEY ONE SIDE, ADA THUMB TURN LOCKS AND UNLOCKS
- HARDWARE:**
 - CLOSER: LCN 4211 (CUSH ARM)
 - PUSH / PULL PLATES: ROCKWOOD VRT24C x 91CFC US32DMS WITH BLACK COOL COATING HANDLE
 - THRESHOLD: PEMKO 270A (OR EQUAL)
 - SWEEP: PEMKO 321 SSN (OR EQUAL)
- OTHER:**
 - MAGNETIC LOCKS: SECURITRON SAM SYSTEM w/ SDC 463 SENSOR EMERGENCY EXIT BUTTON
 - WEATHER STRIP: PEMKO 303_CS (OR EQUAL)
 - CHECK CHAIN: IVES CS115-25 (OR EQUAL)

NOTE: DIMENSIONS ARE FOR DOORS ONLY, FRAMES ARE NOT INCLUDED.

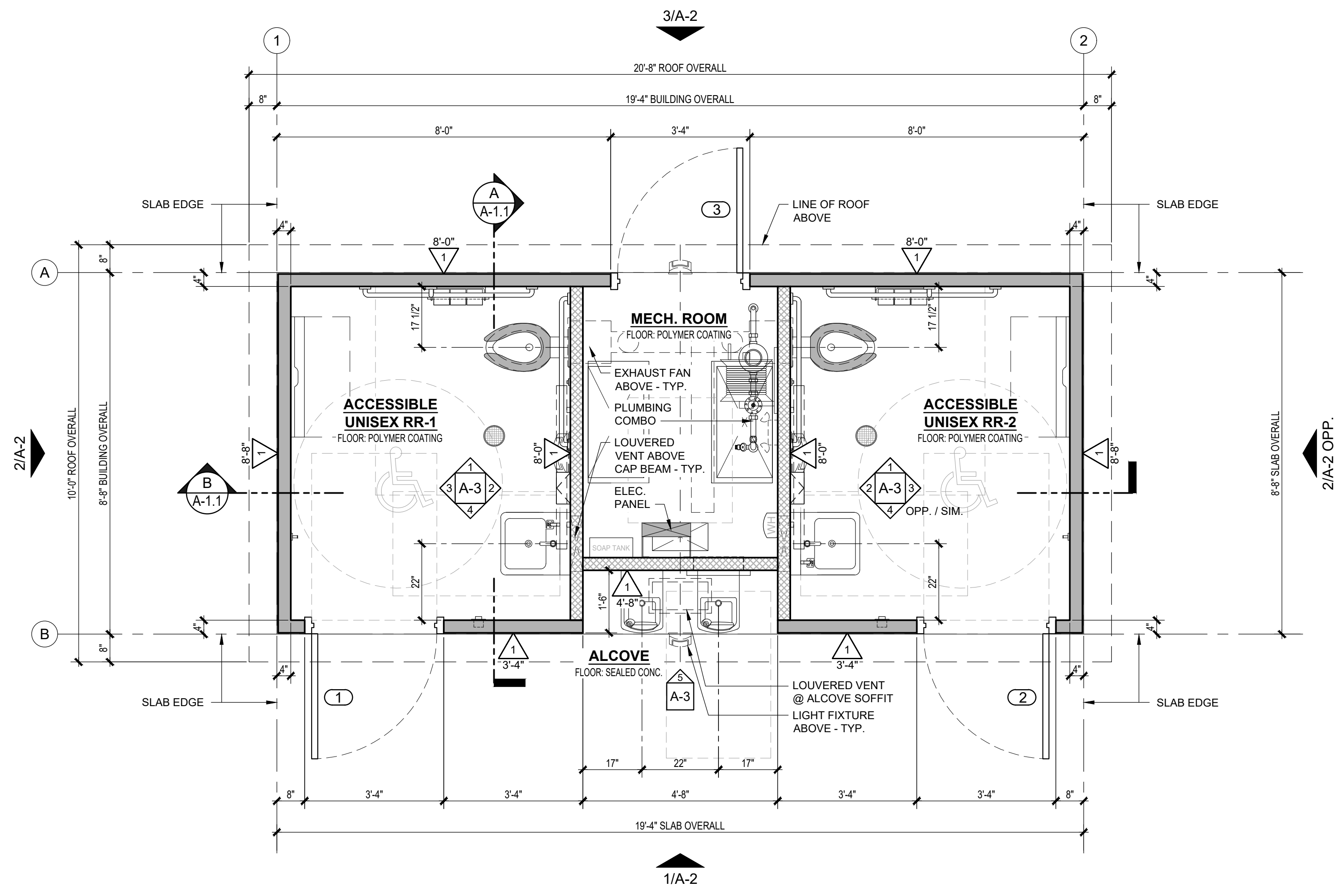
STRUCTURAL DESIGN			
COMPONENT	DESCRIPTION	SPECIFIC MATERIAL LIST	NOTES
SLAB			
PERIMETER FRAMEWORK	STRUCTURAL STEEL	L 6"x6"x5/16"	
REINFORCEMENT	REBAR MAT DESIGN	#4 MIN. GRADE 60 TOP: 8" O.C. EACH WAY BOT: 16" O.C. EACH WAY	
CONCRETE	8" MAT DESIGN	DESIGN BASIS IS MIN. 2500 PSI	NOTE #1
REBAR CONNECTION TO CONCRETE SLAB	STARTER BARS CONNECTION TO CONCRETE SLAB SHALL BE WITH 2 PART EPOXY w/ 5" MIN. EMBED DEPTH	RED HEAD A7+ EPOXY (OR EQUAL)	USE OF ADHESIVE ANCHORAGE SYSTEM BY PROVISIONS OF CODE REPORT ESR-3903 AND MANUFACTURER RECOMMENDATIONS
WALLS			
FRAMING (EXT.)			
TO CAP BEAM	C.M.U. BLOCK	4 x 8 x 16 CONCRETE BLOCK. GROUT EVERY CELL w/ TYPE 'S' FINE GROUT. REINFORCING: HORIZONTAL - (2) 9 GA WIRES @ 8" O.C. (EVERY COURSE) VERTICAL - #3 REBAR @ 8" O.C. (EVERY CELL), EXCEPT USE #4 REBAR @ END OF WALLS, @ EACH SIDE OF OPENINGS, AND @ 10'-0" O.C. MAX.	USE TYPE 'S' FINE GROUT w/ A SLUMP OF 10"-11" FOR A "HIGH LIFT" GROUT POUR. GROUT POUR HEIGHT NOT TO EXCEED 12'-8"
CAP BEAM	STEEL	HSS 6 x 4 X 1/8 (A1085 / A 500 GRADE B)	
ABOVE CAP BEAM	WOOD	2x4 DF#2 OR BETTER STUDS @ 16" O.C.	
FRAMING (INT.)			
TO CAP BEAM	C.M.U. BLOCK	4 x 8 x 16 CONCRETE BLOCK. GROUT EVERY CELL w/ TYPE 'S' FINE GROUT. REINFORCING: HORIZONTAL - (2) 9 GA WIRES @ 8" O.C. (EVERY COURSE) VERTICAL - #3 REBAR @ 8" O.C. (EVERY CELL), EXCEPT USE #4 REBAR @ END OF WALLS, @ EACH SIDE OF OPENINGS, AND @ 10'-0" O.C. MAX.	USE TYPE 'S' FINE GROUT w/ A SLUMP OF 10"-11" FOR A "HIGH LIFT" GROUT POUR. GROUT POUR HEIGHT NOT TO EXCEED 12'-8"
CAP BEAM	STEEL	HSS 6 x 4 x 1/8 (A1085 / A 500 Grade B)	
ABOVE CAP BEAM	WOOD	2x4 DF#2 OR BETTER STUDS @ 16" O.C.	
SHEATHING (ABOVE CAP BEAM)			
ALL FRAMED WALLS (EXT.)	WOOD	7/16" SHEATHING BOTH SIDES	NOTE #2
ALL FRAMED WALLS (INT.)	WOOD	7/16" SHEATHING BOTH SIDES	NOTE #2
ROOF			
RAFTERS	WOOD	2x6 DF#2 OR BETTER @ 24" O.C.	
LOOKOUTS	WOOD	2x6 DF#2 OR BETTER @ 24" O.C.	
SHEATHING	WOOD	5/8" SHEATHING TOP & BOTTOM	
SUB-FASCIA	WOOD	2x6 DF#2 OR BETTER WRAPPED w/ 16 GA. FORMED STEEL	
NOTES:			
1. INTEGRAL ADDITIVES FOR MOISTURE, STAINING & CORROSION RESISTANCE.			
2. PAINT WALL SHEATHING FOR MOISTURE PROTECTION (MECHANICAL ROOM SIDE)			

SHEAR WALL SCHEDULE			
MARK & TYPE	BLOCK	REINFORCEMENT	CAP BEAM
1 C.M.U.	4 x 8 x 16 FULLY GROUTED	HORIZONTAL - (2) 9 GA WIRES @ 8" O.C. (EVERY COURSE) VERTICAL - #3 REBAR @ 8" O.C. (EVERY CELL), EXCEPT USE #4 REBAR @ END OF WALLS, @ EACH SIDE OF OPENINGS, AND @ 10'-0" O.C. MAX.	HSS 6 x 4 x 1/8

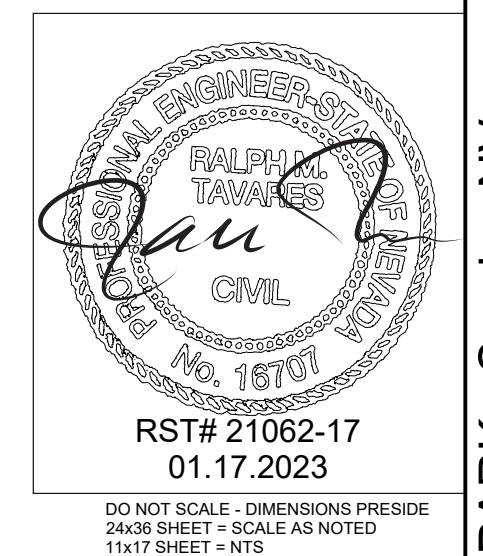
GENERAL SHEET NOTES:

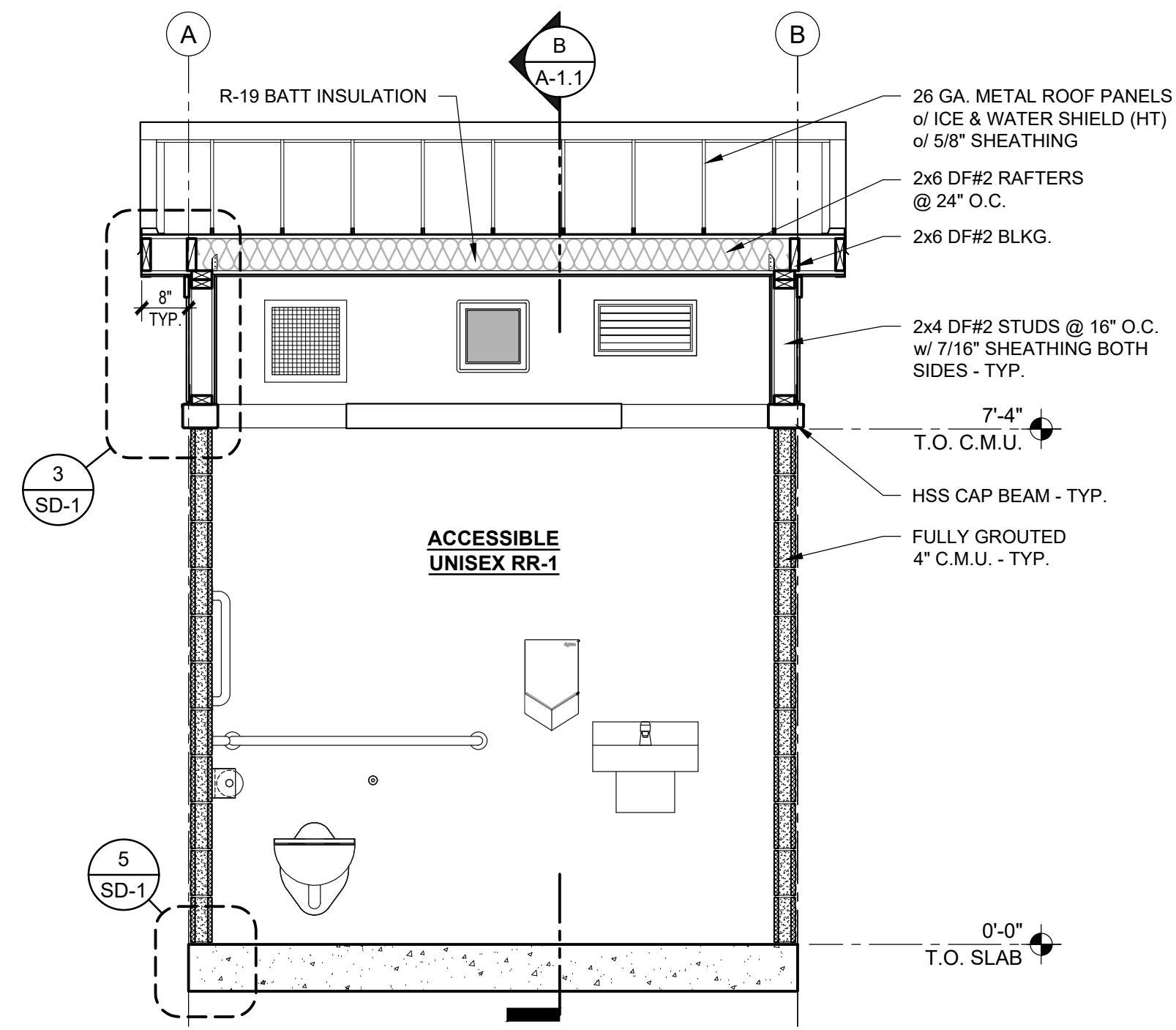
- LOCATION OF ALL PLUMBING & ELECTRICAL COMPONENTS IN THE MECHANICAL ROOM ARE SUBJECT TO CHANGE, FINAL LOCATIONS TBD.

WALL LEGEND:	
	4" C.M.U. SPLIT FACE
	4" C.M.U. PRECISION

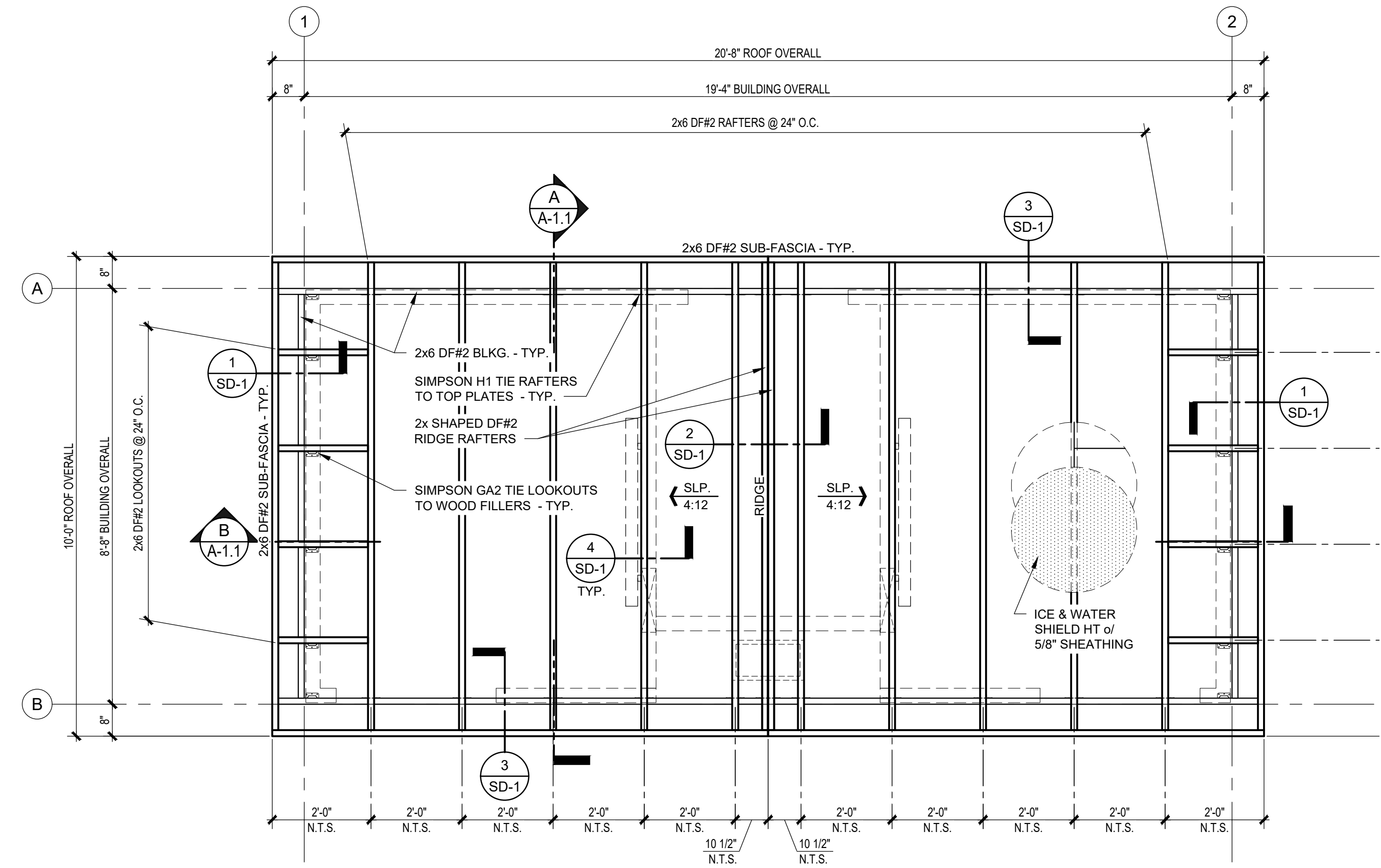


1 FLOOR PLAN
SCALE: 1/2"=1'-0"

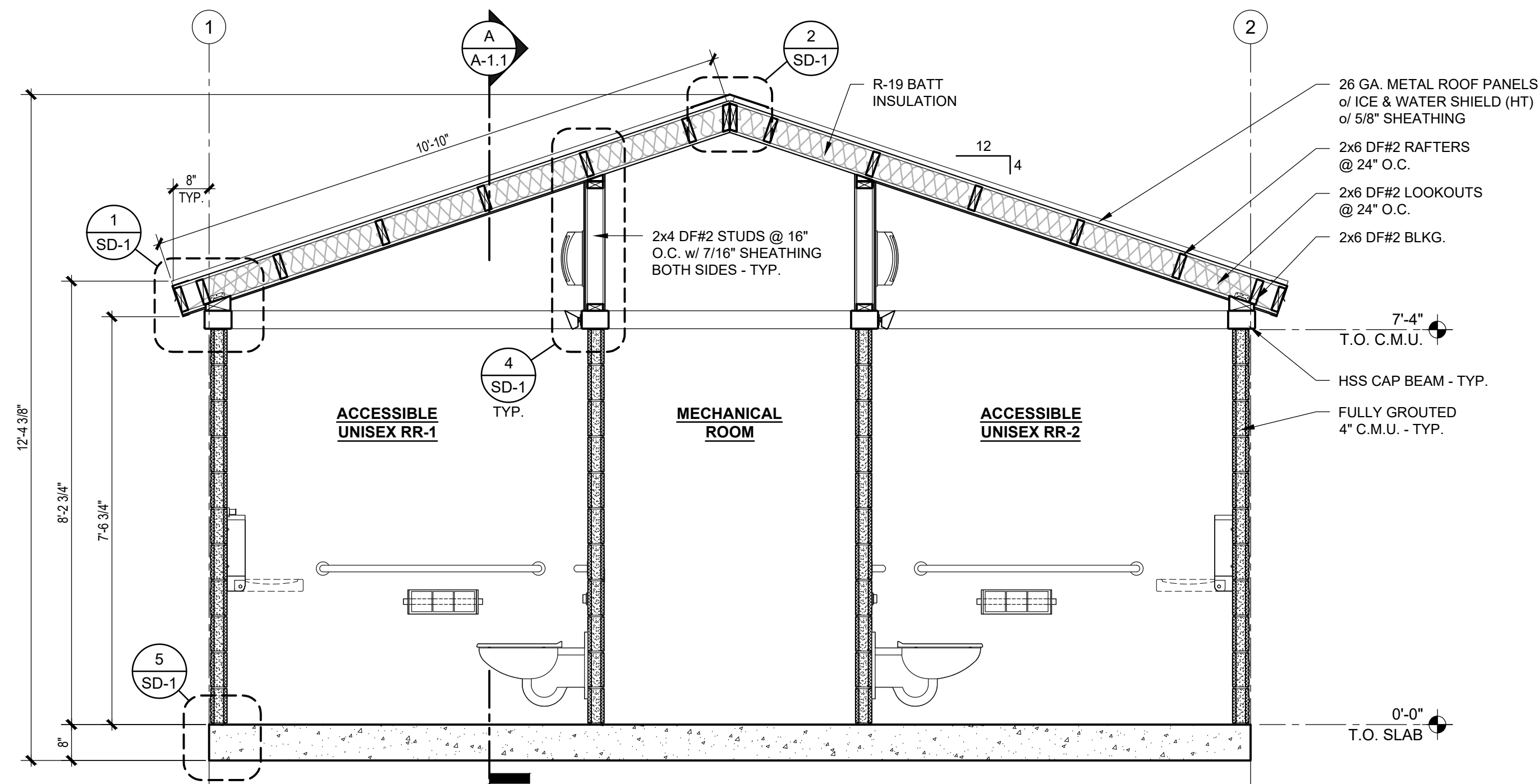




A BUILDING SECTION
SCALE: 1/2" = 1'-0"



1 ROOF FRAMING PLAN
SCALE: 1/2" = 1'-0"



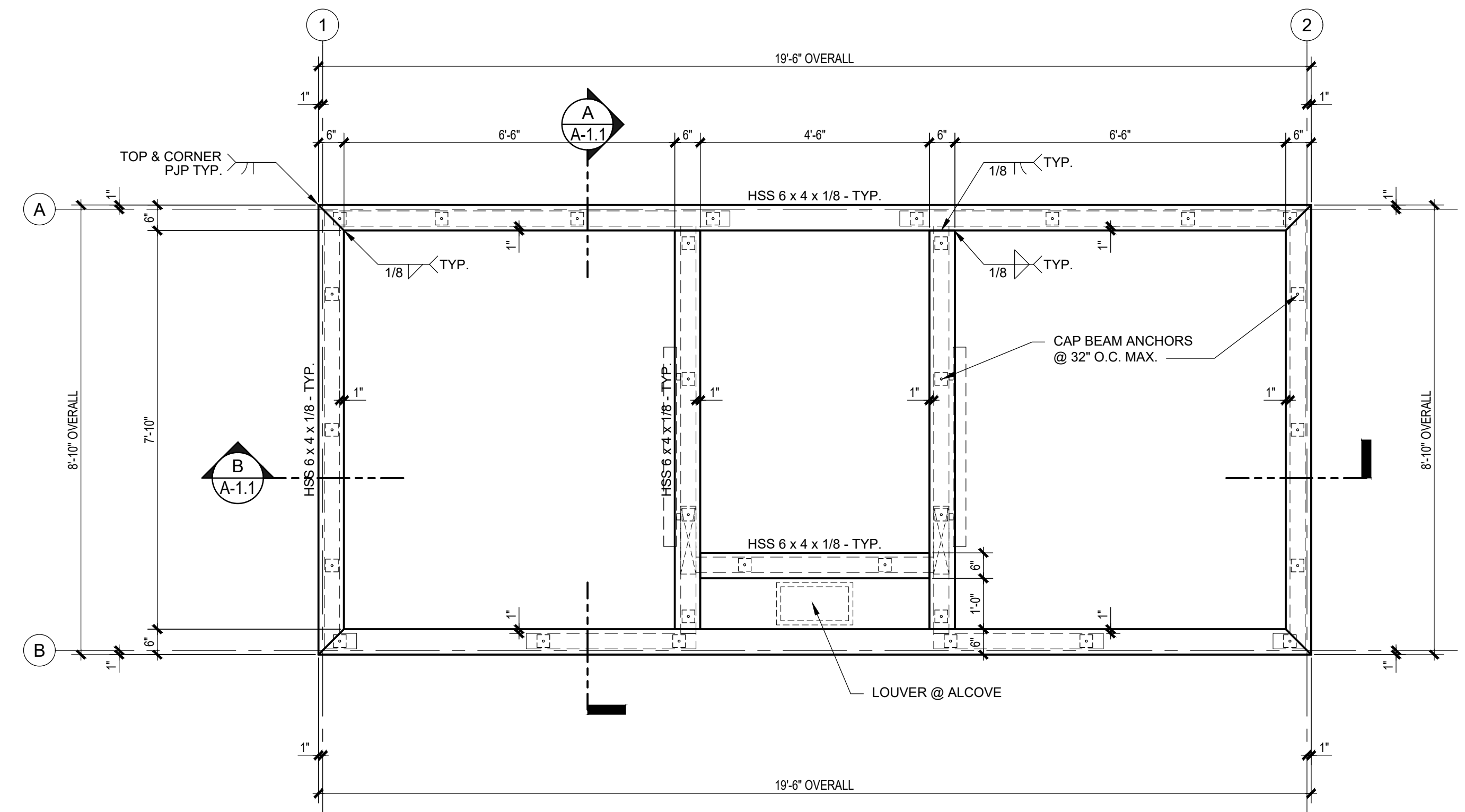
B BUILDING SECTION
SCALE: 1/2" = 1'-0"

CAP BEAM NOTES:

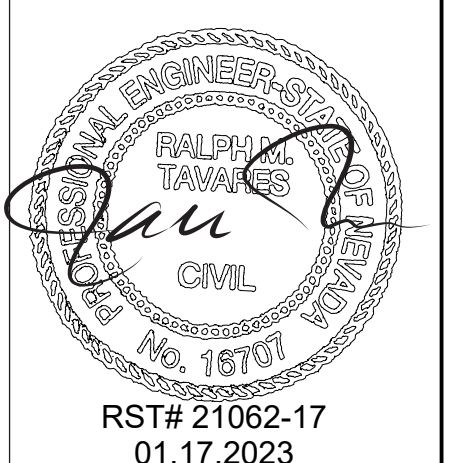
1. ALL HSS CAP BEAMS OVER BUILDING EXTERIOR PERIMETER WALLS SHALL BE INSTALLED 1" FROM INSIDE FACE OF CAP BEAM TO INSIDE FACE OF C.M.U. BLOCK WALLS.
2. ALL HSS CAP BEAMS OVER BUILDING INTERIOR WALLS SHALL BE INSTALLED AS NOTED OVER C.M.U. BLOCK WALLS BELOW
3. ALL STEEL INTERSECTIONS ARE TO BE WELDED w/ 1/8" CONTINUOUS WELD.
4. ADJUST CAP BEAM ANCHORS ACCORDINGLY IF LANDED ON DOOR OPENINGS. ANCHORS NOT TO EXCEED 32" O.C. SPACING.

GENERAL SHEET NOTES:

1. SD SHEETS REFERENCED HEREIN CONTAIN PROPRIETARY INFORMATION AND THEREFORE ARE NOT AN INTEGRAL PART OF THE PLANS. SD SHEETS SHALL BE UTILIZED FOR ENGINEERING PURPOSES AND INTERNAL USE ONLY.
2. SEE SHEET SD-1 FOR FASTENING SCHEDULE.



2 TOP OF THE WALL CAP BEAM PLAN
SCALE: 1/2" = 1'-0"



RST# 21062-17
01.17.2023

No.	Description	Date

CONSTRUCTION DOCUMENTS
01/12/2023

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PROJECT OWNER:
CITY of SPARKS
Sparks, NV

PROJECT NAME AND LOCATION:
SHELLY PARK
Sparks, NV

SHEET TITLE:
ROOF FRAMING & TOP OF THE WALL CAP BEAM PLANS, BUILDING SECTIONS

Drawn by: **NS** Job No. **10711**
Checked by: **RR**
Current Date: **01/12/2023**
Start Date: **09/13/2022**

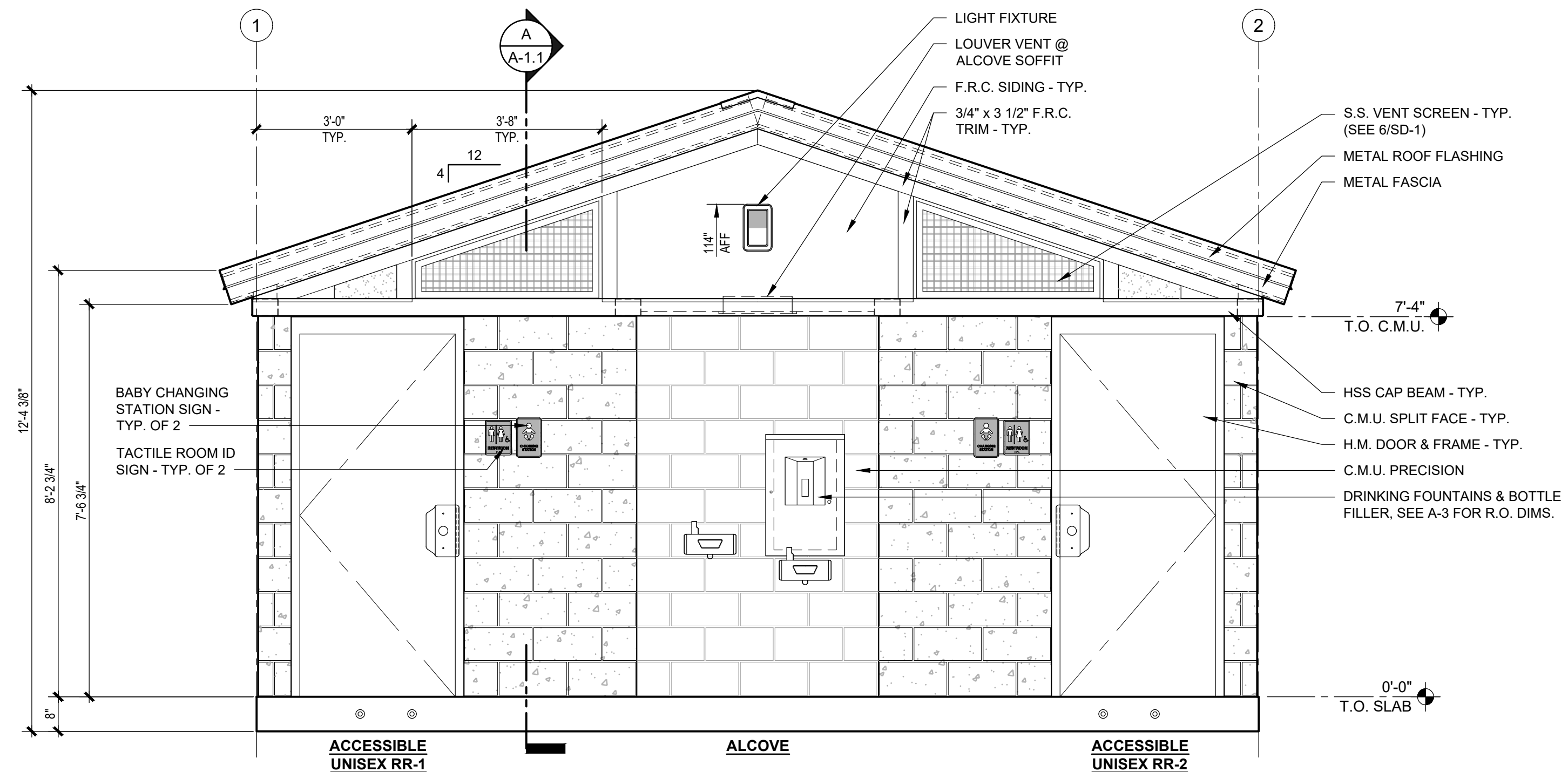
A-1.1

CONSTRUCTION DOCUMENTS - 01/12/2023

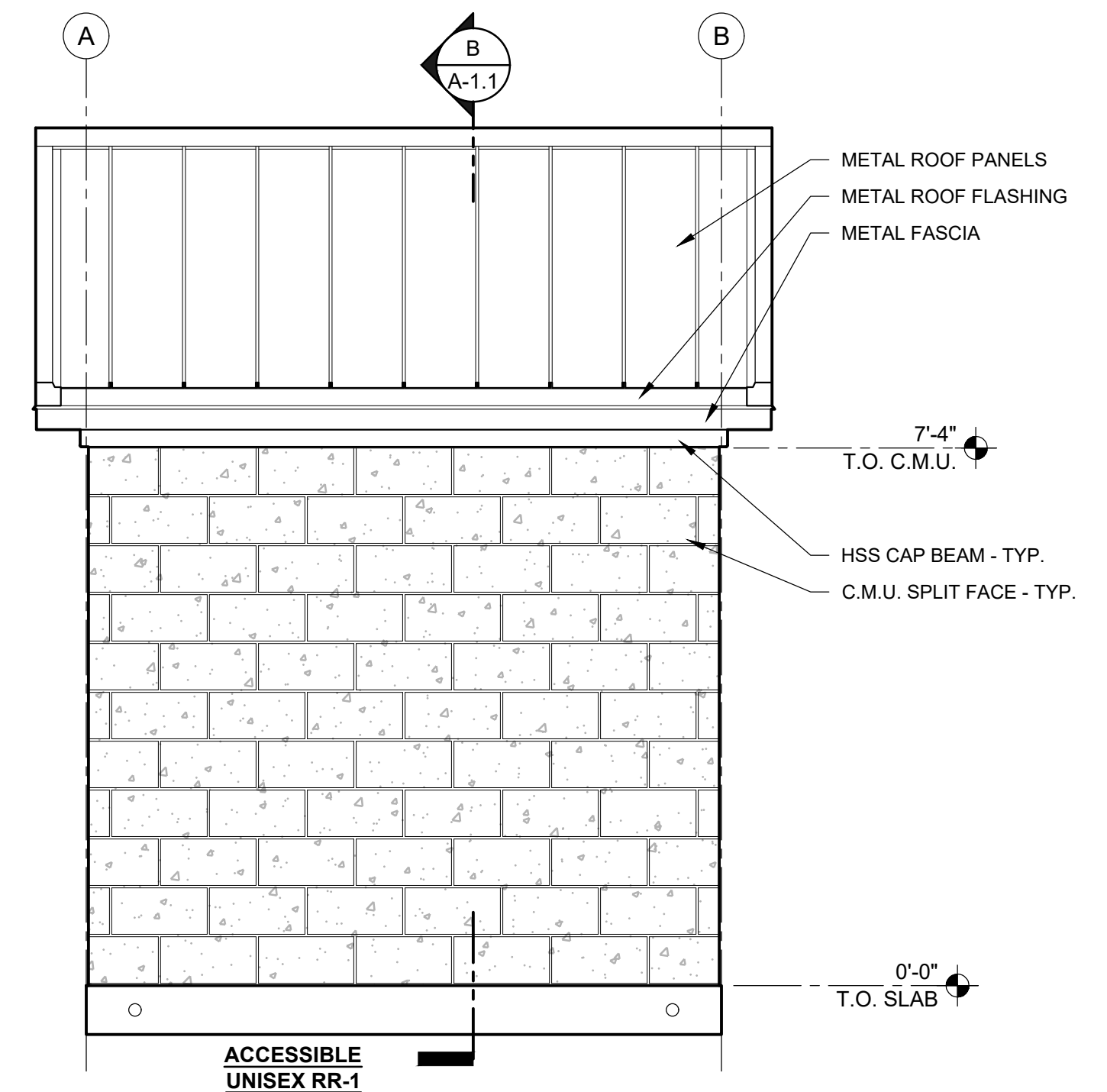
SHELLY PARK - Sparks, NV

EXTERIOR FINISH SCHEDULE

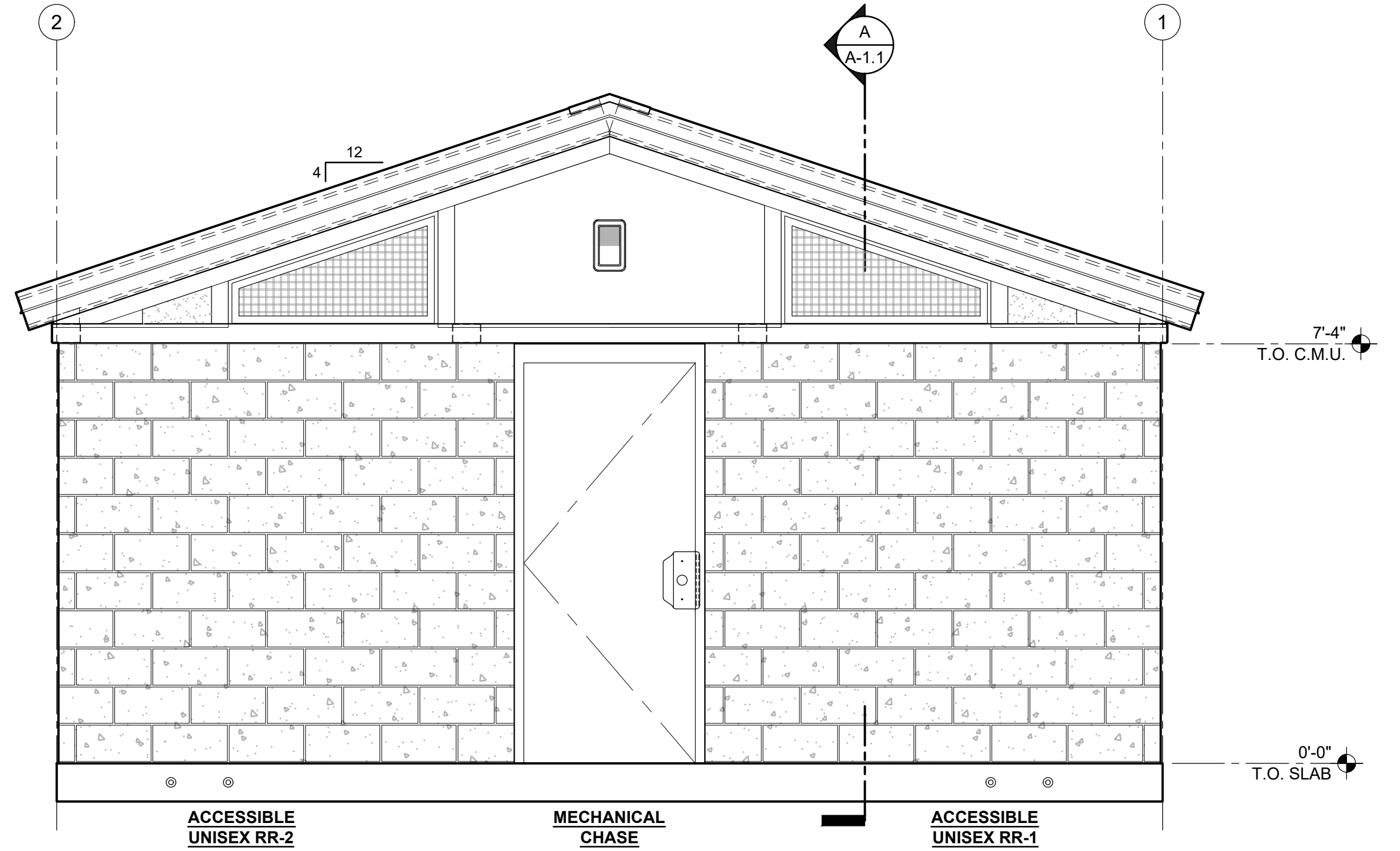
TYPE	DESCRIPTION	FINISH	BRAND / COLOR	NOTES	TYPE	DESCRIPTION	FINISH	BRAND / COLOR	NOTES
WALLS									
C.M.U. TO CAP BEAM	C.M.U. - SPLIT FACE	INTEGRAL	BASALITE / TAN 102 (STANDARD TAN MORTAR); MATTE FINISH ANTI GRAFFITI COATING	SEALED w/ MONOPOLE ANTI GRAFFITI COATING	ROOF				
ALCOVE BACK & SIDE WALLS	C.M.U. - PRECISION	INTEGRAL	BASALITE / TAN 102 (STANDARD TAN MORTAR); MATTE FINISH ANTI GRAFFITI COATING	SEALED w/ MONOPOLE ANTI GRAFFITI COATING	ROOFING	26 GA. 12" STRIATED STANDING SEAM METAL ROOF PANELS	PREFINISHED	METAL SALES "IMAGE II" / BROWN (12)	OVER ICE & WATER SHIELD HT
CAP BEAM	STEEL	PAINTED	PITTSBURGH PITT-TECH / MATCH METAL SALES BROWN (12)	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS	FLASHINGS	26 GA. METAL	PREFINISHED	METAL SALES "IMAGE II" / BROWN (12)	-
					FASCIA	16 GA. METAL	PAINTED	PITTSBURGH PITT-TECH / ALMOND BRITTLE PPG 1095-3	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS
					SOFFITS	F.R.C. BOARD w/ TEXTURED PATTERN	PAINTED	PITTSBURGH PITT-TECH / ALMOND BRITTLE PPG 1095-3	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS
ABOVE CAP BEAM									
SIDING	F.R.C. BOARD w/ TEXTURED PATTERN	PAINTED	PITTSBURGH PITT-TECH / HAPPY TRAILS PPG 1084-4	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS	DOORS & FRAMES				
TRIM	3/4" x 3 1/2" F.R.C. TRIM BOARDS	PAINTED	PITTSBURGH PITT-TECH / TO MATCH ROOFING COLOR	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS	ALL DOORS & FRAMES	HOLLOW METAL	PAINTED	PITTSBURGH PITT-TECH / TO MATCH ROOFING COLOR	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS
VENT FRAMES	1 1/2" x 1 1/2" 1/8" STAINLESS STEEL ANGLE BAR	PAINTED	MATCH TRIM COLOR	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS	OTHER				
VENT SCREENS	STAINLESS STEEL WIRE MESH (1" x 1" x 3/16")	NATURAL	-	w/ REMOVABLE LEXAN COVERS	LOUVERED VENT	16" x 8"	ALUMINUM	SUNVENT #157FL / NATURAL w/ OBD DAMPER	AT ALCOVE SOFFIT
					MISC. FLASHINGS	GALV. METAL OVER CAP BEAM	PAINTED	MATCH ADJACENT COLOR	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS



1 EXTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



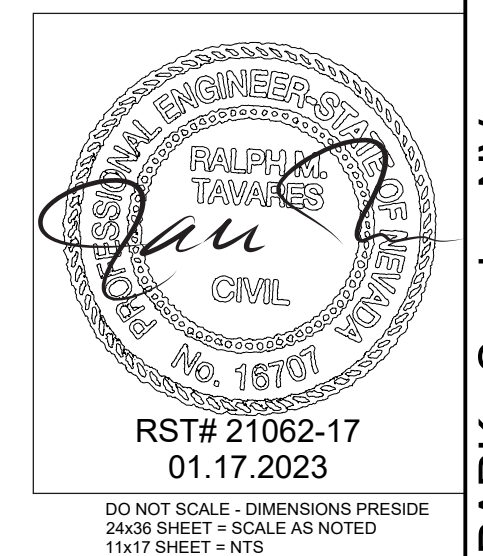
2 EXTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



3 EXTERIOR ELEVATION
SCALE: 1/2" = 1'-0"

CONSTRUCTION DOCUMENTS - 01/12/2023

SHELLY PARK - Sparks, NV



No.	Description	Date

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RESTROOM ACCESSORIES & SPECIALTIES

MOUNT WITH VANDAL RESISTANT SS SCREWS

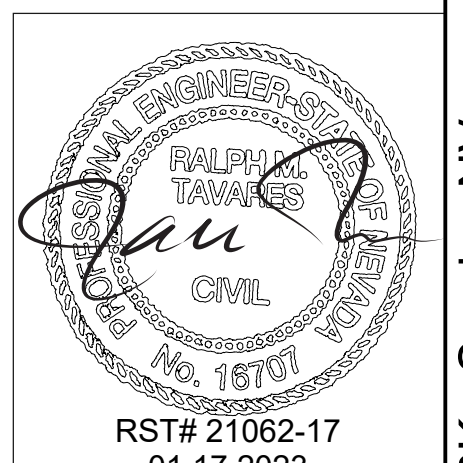
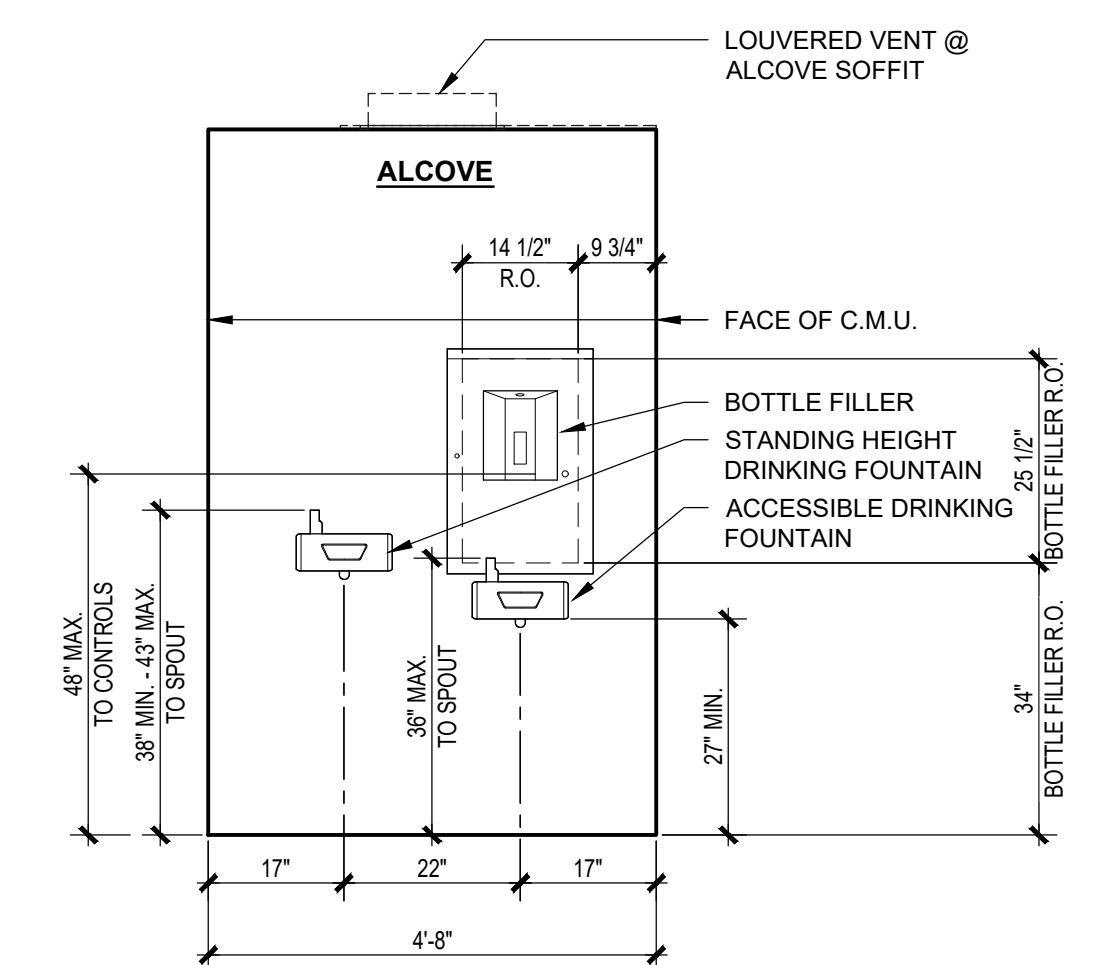
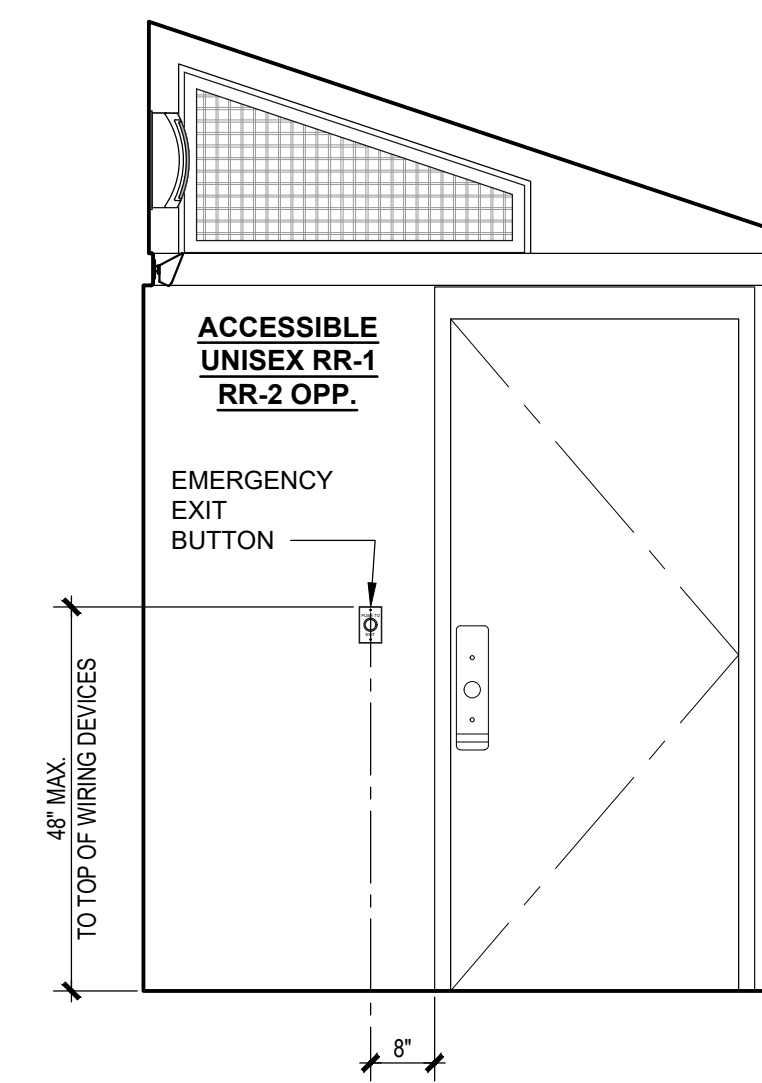
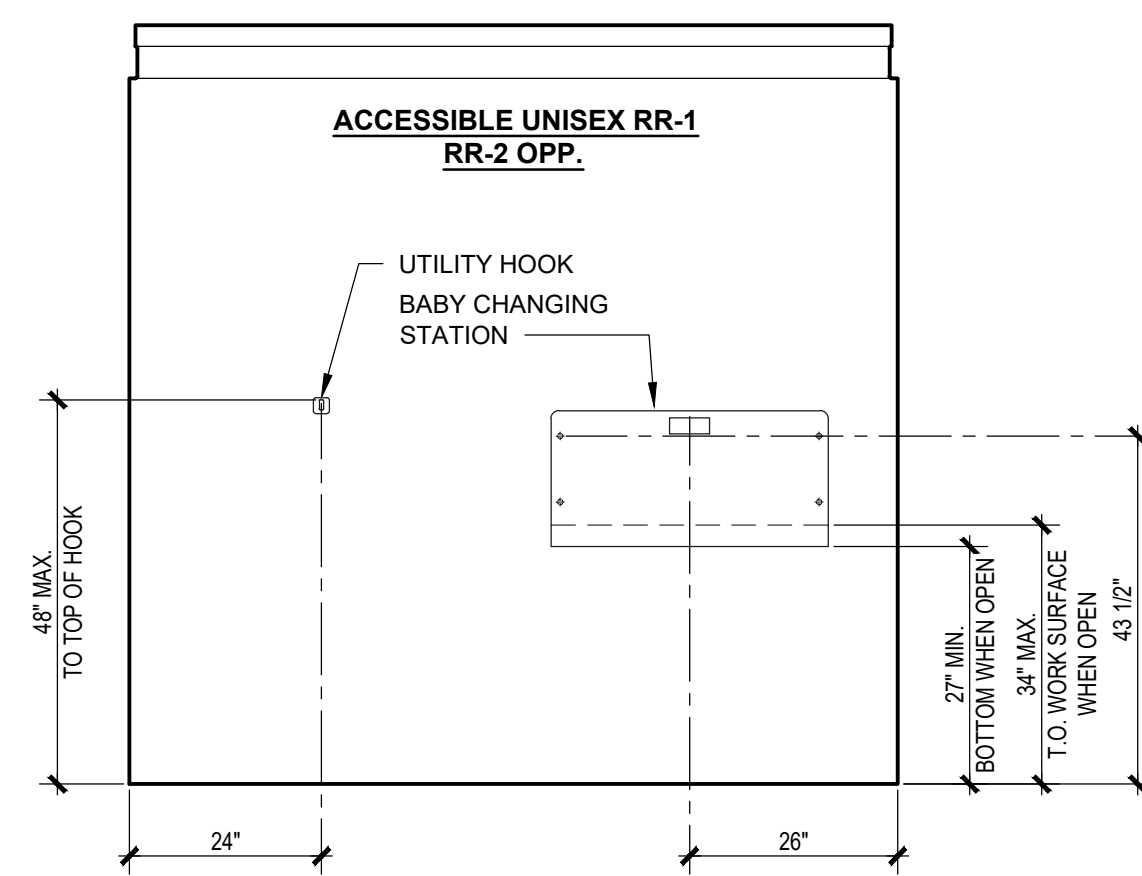
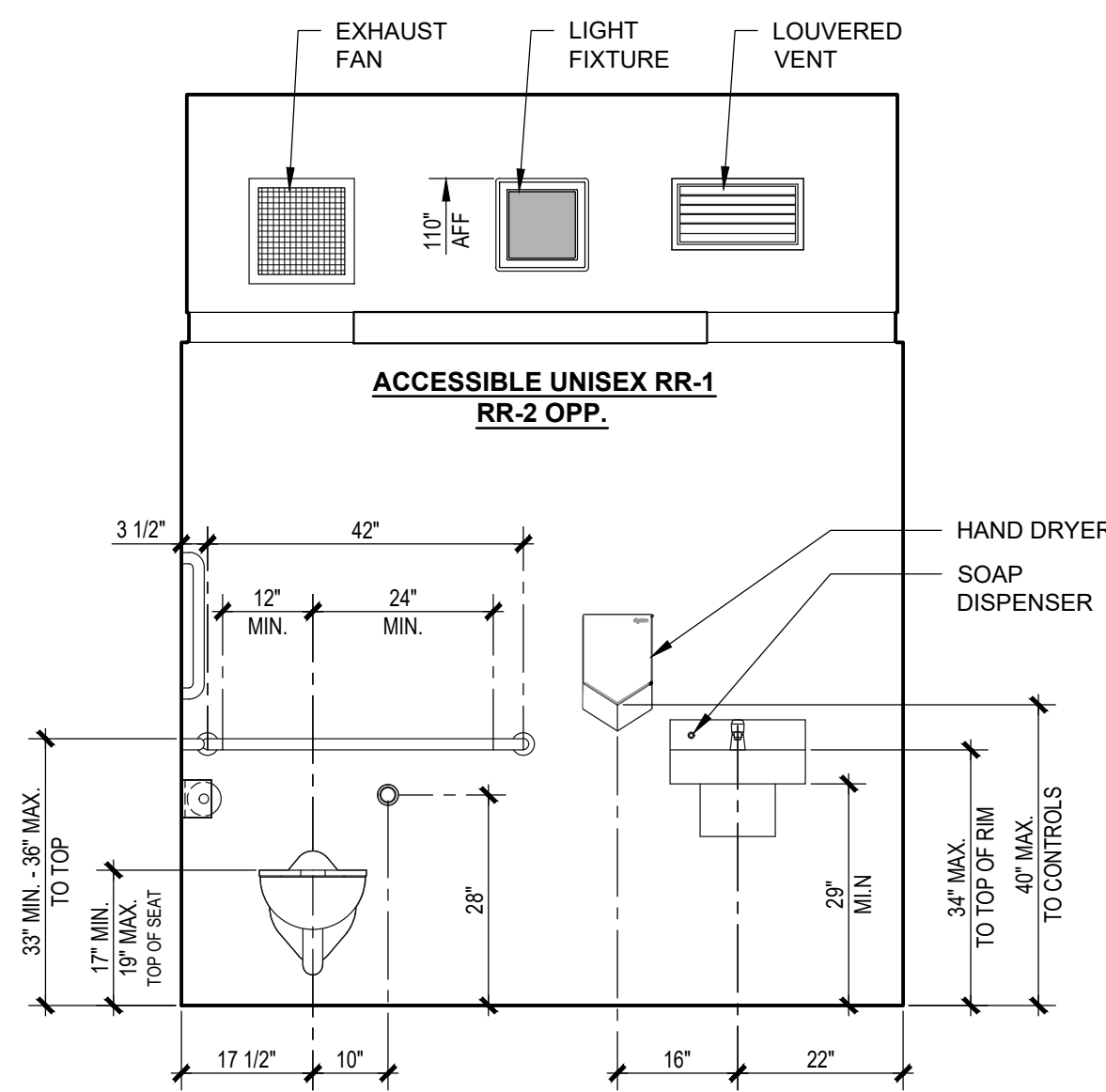
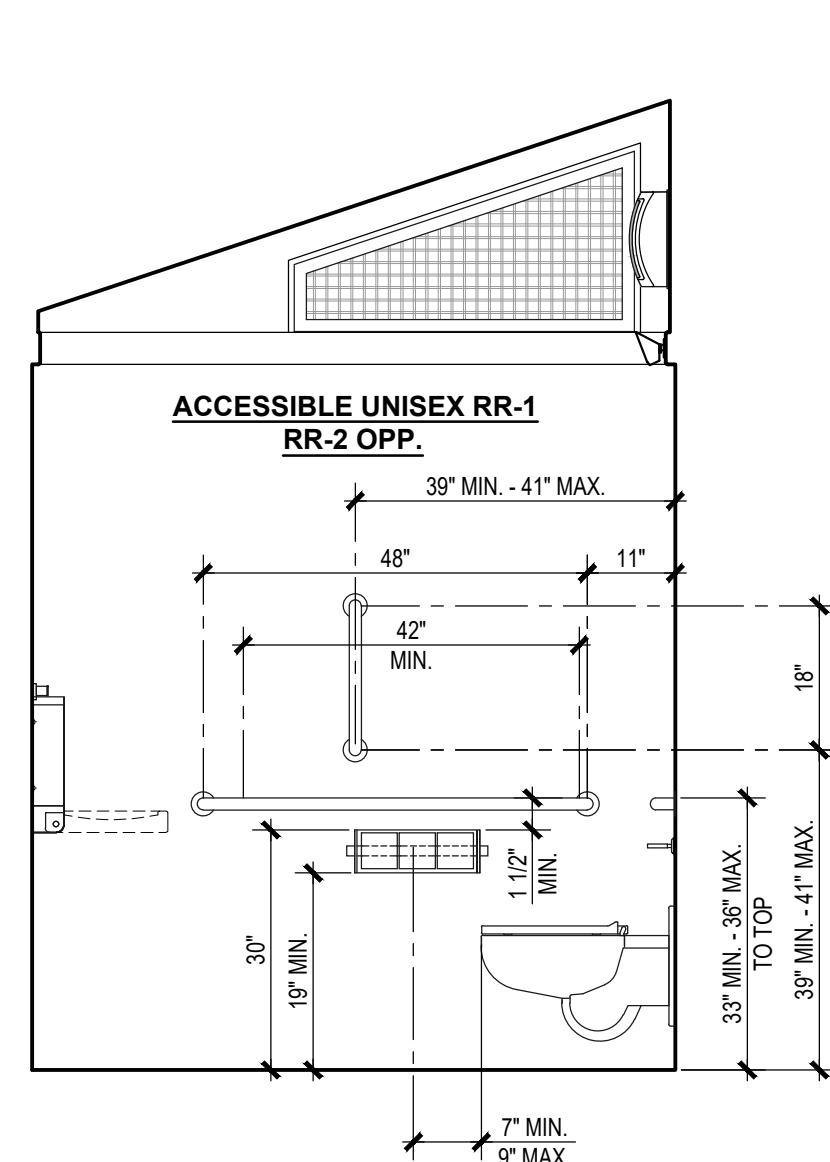
ACCESSORIES	QTY	SIZE / STYLE	MANUF. / ITEM #	PRC#	FINISH / COLOR / STYLE	NOTES
GRAB BAR	2	18"	BOBRICK B-6806-18 (OR EQ.)	H1115	STAINLESS STEEL	MOUNT 39" MIN. - 41" MAX. TO BOTTOM & CENTER
GRAB BAR	2	42"	BOBRICK B-6806-42 (OR EQ.)	H1118	STAINLESS STEEL	MOUNT 33" MIN. - 36" MAX. A.F.F. TO TOP
GRAB BAR	2	48"	BOBRICK B-6806-48 (OR EQ.)	H1119	STAINLESS STEEL	MOUNT 33" MIN. - 36" MAX. A.F.F. TO TOP
TOILET PAPER HOLDER	2	VANDAL RESISTANT 3-ROLL	ROYCE ROLLS TP-3	H1152	STAINLESS STEEL	MOUNT 30" A.F.F. TO TOP
HAND DRYER	2	SURFACE MOUNTED	DYSON AIRBLADE V	L1417	CAST ALUMINUM	MOUNT 40" MAX. A.F.F. TO CONTROLS
UTILITY HOOK	2	SURFACE MOUNTED	BOBRICK B-670 (OR EQ.)	H1143	STAINLESS STEEL	MOUNT 48" A.F.F. TO TOP OF HOOK
BABY CHANGING STATION	2	SURFACE MOUNTED	FOUNDATIONS 5410339	H1110	STAINLESS STEEL / POLY	MOUNT 34" MAX. A.F.F. TO TOP OF WORK SURFACE
SIGNS - TACTILE ROOM ID ACCESSIBLE "RESTROOM"	2	5 3/4" x 8 3/8" RECTANGULAR	SIGN ELEMENTS	H1223	ALUMINUM BLUE	MOUNT 60" A.F.F. TO CENTER - SEE SHEET A-2
SIGNS - TACTILE "BABY CHANGING STATION"	2	5 3/4" x 9 1/8" RECTANGULAR	SIGN ELEMENTS	H1320	ALUMINUM BLUE	TOP TO MATCH ADJACENT SIGN HEIGHT - SEE SHEET A-2
SOAP DISPENSER	2	THRU WALL VALVE	ASI #0353	H1421	STAINLESS STEEL	MOUNT @ LAVATORY BACKSPASH
	1	RESERVOIR SOAP TANK	PROPRIETARY	H1420	STAINLESS STEEL	MOUNT IN MECHANICAL ROOM
LOUVERED VENT	1	16" x 8" w/ O.B. DAMPER	SUNVENT #157FL	C1001	ALUMINUM / NATURAL	AT ALCOVE SOFFIT
LOUVERED VENT	2	16" x 8"	SUNVENT #157FL	C1000	ALUMINUM / NATURAL	@ DEMISING WALLS ;INSTALL w/ BLADES FACING CEILING

INTERIOR FINISH SCHEDULE

COMPONENT	DESCRIPTION	FINISH	BRAND / COLOR	NOTES
FLOOR				
RESTROOMS	CONCRETE	POLYMER COATING	CROWN POLYMERS / CROWNPRO 7072 SC	CHIP COLOR - A1434 TAN BLEND / B22-2102
MECHANICAL ROOM	CONCRETE	POLYMER COATING	CROWN POLYMERS / CROWNPRO 7072 SC	CHIP COLOR - A1434 TAN BLEND / B22-2102
WALLS				
RESTROOMS	C.M.U. - PRECISION	BLOCK FILLER / PAINTED	PITTSBURGH / PURE WHITE #90-374 PITT-TECH	2 COATS BLOCK FILLER, 2 COATS FINISH - SEMI GLOSS
	ANTI GRAFFITI COATING	MATTE	MONOPOLE	2 COATS
CAP BEAM	STEEL	PAINTED	PITTSBURGH / PURE WHITE #90-374 PITT-TECH	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS
ABOVE CAP BEAM	F.R.C. w/ TEXTURED PATTERN	PAINTED	PITTSBURGH / PURE WHITE #90-374 PITT-TECH	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS
MECHANICAL ROOM	C.M.U. - PRECISION	BLOCK FILLER / PAINTED	PITTSBURGH / PURE WHITE #90-374 PITT-TECH	1 COAT BLOCK FILLER, 1 COAT FINISH - SEMI GLOSS
CAP BEAM	STEEL	PAINTED	PITTSBURGH / PURE WHITE #90-374 PITT-TECH	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS
ABOVE CAP BEAM	WOOD SHEATHING	PAINTED	PITTSBURGH / PURE WHITE #90-374 PITT-TECH	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS
CEILING				
RESTROOMS	F.R.C. w/ TEXTURED PATTERN	PAINTED	PITTSBURGH / PURE WHITE #90-374 PITT-TECH	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS
MECHANICAL ROOM	WOOD SHEATHING	PAINTED	PITTSBURGH / PURE WHITE #90-374 PITT-TECH	1 COAT PRIMER, 2 COATS FINISH - SEMI GLOSS

GENERAL SHEET NOTES:

- LOCATION OF ALL PLUMBING & ELECTRICAL COMPONENTS IN THE MECHANICAL ROOM ARE SUBJECT TO CHANGE. FINAL LOCATIONS TBD.



RST# 21062-17
01.17.2023

DO NOT SCALE - DIMENSIONS PRESIDE
24x36 SHEET - SCALE AS NOTED
11x17 SHEET - NTS

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						CITY of SPARKS Sparks, NV	SHELLY PARK Sparks, NV	INTERIOR ELEVATIONS & SCHEDULES	Checked by:	RR	Current Date:	01/12/2023

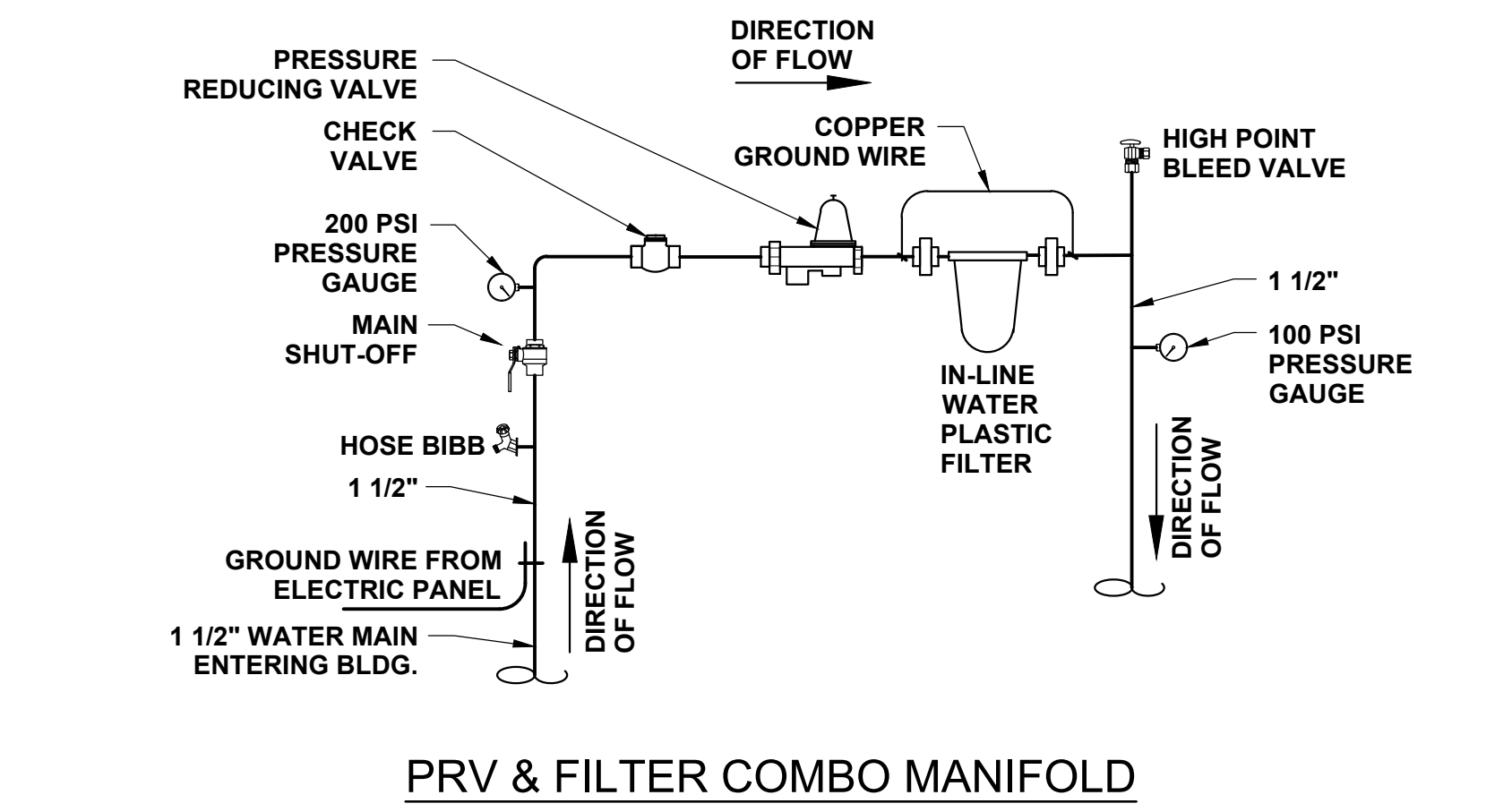
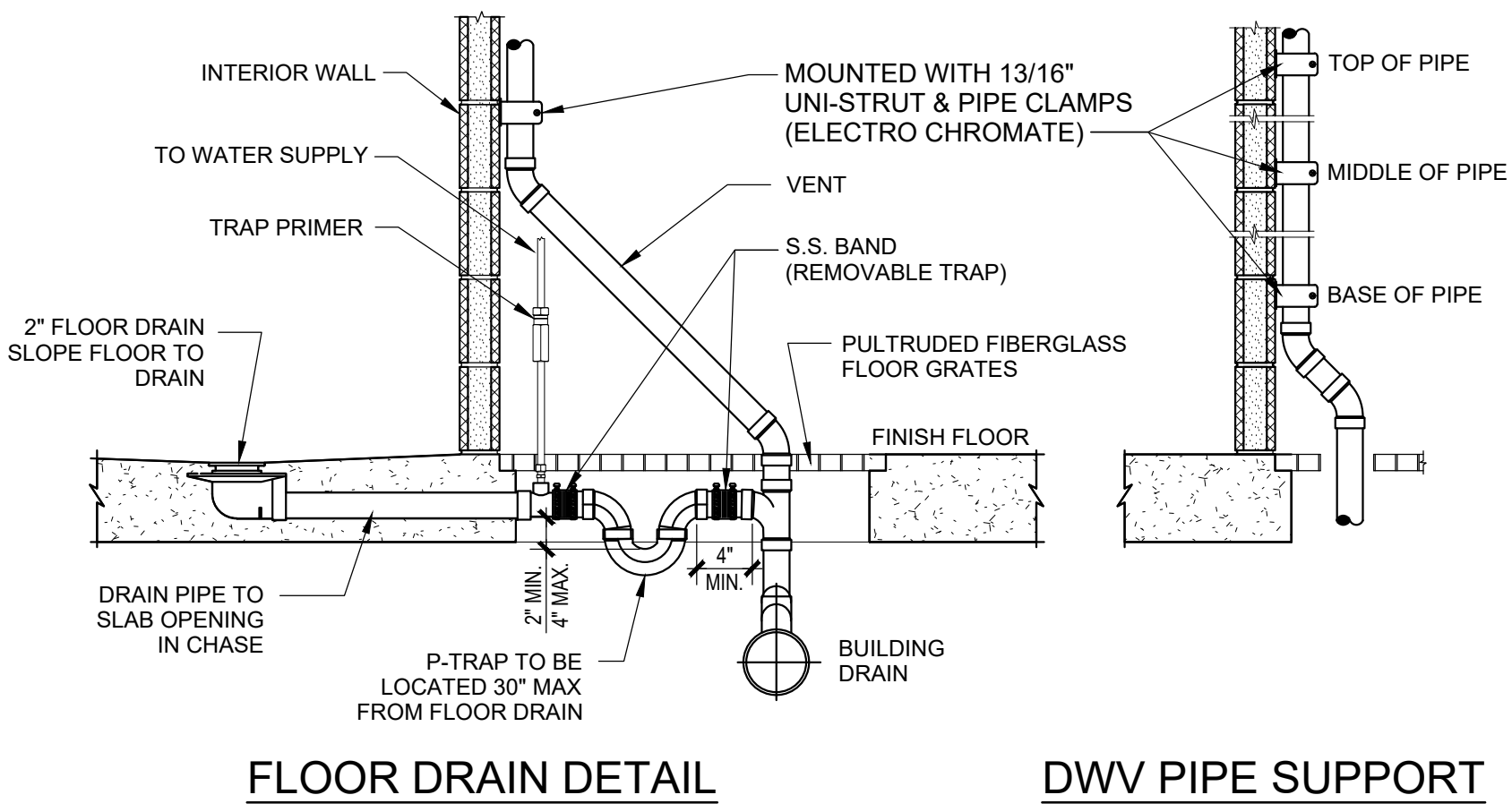
CONSTRUCTION DOCUMENTS - 01/12/2023

SHELLY PARK - Sparks, NV

PLUMBING COMPONENTS SCHEDULE			
QTY.	COMPONENT	DESCRIPTION	PRC #
2	WATER CLOSET - Stainless Steel, Wall Mount	ACORN 1675-W-1-HET 1.28 GPF-FVBO-ADA-PFS-316SS	K1299
2	FLUSH VALVE - Water Closet, Hydraulic Type	ZURN ZH6152AV-HET-7L-MB-WP	K1523
2	TOILET SEAT - Black	BEMIS 1955SST	K1323
2	LAVATORY - Stainless Steel, Wall Mount	ACORN 1652-FALRB-1-DMS-03-M-316SS	K1109
2	LAVATORY FAUCET - Metered	CHICAGO #333-E2805-665 PSHABCP	K1604
2	FLOOR DRAIN	ZURN ZN460-5B-2NH	K1700
2	TRAP PRIMER	PROFLO #PFPR500	K1705
2	TRAP PRIMER PVC REDUCING ADAPTER	PPA-2P625	K1587
2	DRINKING FOUNTAIN - (1) High - (1) Low	MURDOCK MODEL #GSE64-FG-316SS	K1398
1	BOTTLE FILLER	MURDOCK MODEL #BF3-316SS	K1419
1	PRESSURE GAUGE - 100 psi.	PROFLO PFXPG100K (FOR DOWNSTREAM)	K1689
1	PRESSURE GAUGE - 200 psi.	PROFLO PFXPG200K (FOR UPSTREAM)	K1689.5
1	WATER FILTER - 1 1/2"	KEYSTONE CG10	K1591/92/94
1	BALL VALVE - 1 1/2"	NIBCO S-FP-600N	K1566
1	BALL VALVE - 1 1/4" (Prep for future tank)	NIBCO S-FP-600N	K1563
TBD	BALL VALVE - 1/2" (Isolation, drain & bleed valve)	NIBCO S-FP-600N	K1560
1	CHECK VALVE - 1 1/2" - Spring Type; Sweat	NIBCO #S-480-Y-LF	K1568.7
1	PRESSURE REDUCING VALVE - 1 1/2"	WATTS LF25 AUB-GG (Lead Free)	K1559
TBD	HAMMER ARRESTOR	PPA SWA	K1590
2	HOSE BIBB - Interior, Utility Chase	ACORN #8121-LF	K1575
TBD	RELIEF VALVE - For WH-1/2" Relief / Bleed Valve	PEX COMPRESSION STRAIGHT STOP VALVE #ULF4420500	K7905
TBD	RELIEF VALVE - For COMBO-1/2" Relief / Bleed Valve	PEX COMPRESSION ANGLE STOP VALVE #ULF4410500	K7910
1	VENT CAP - 4"	SMITH 1748	K1582
1	CURB STOP - 1 1/2"	MUELLER H-15015	K1585
1	WATER HEATER - IN LINE	ELECTRIC TANKLESS - REFER TO SHEET E-1	-
2	THERMOSTATIC VALVE - Mixing Valve	ACORN THERMOSTATIC MIX. VALVE MODEL # ST70-12	K1615
1	EXPANSION TANK	PROFLO PFXT5	K1690
1	HOSE REEL	STRONGWAY #48434	K1595.5
1	COMMERCIAL GRADE HOSE	TEKNOR APEX HEAVY DUTY COMMERCIAL GRADE NEVER DRY HOSE #8617-100	K1596.7

PIPE SCHEDULE	PIPE MATERIAL				
	PEX PIPE	TYPE "L" COPPER	TYPE "K" COPPER	SCHED. 40 PVC WATER	SCHED. 40 PVC DWV
WATER	ABOVE GROUND	✓			
	BELOW GROUND		✓		
SANITARY DRAINAGE	ABOVE GROUND			✓	
	BELOW GROUND			✓	
SANITARY VENT	ABOVE GROUND			✓	✓
	ABOVE ROOF			✓	✓

NOTES:
AS PER 2018 UNIFORM PLUMBING CODE CHAPTER 4 FLOW AND WATER CONSUMPTION:
• WATER CLOSET FLUSH VALVE SHALL NOT EXCEED 1.6 gpf.
• LAVATORY METERING FAUCETS SHALL NOT EXCEED 0.25 gal. PER CYCLE.



No.	Description	Date

CONSTRUCTION DOCUMENTS
01/12/2023

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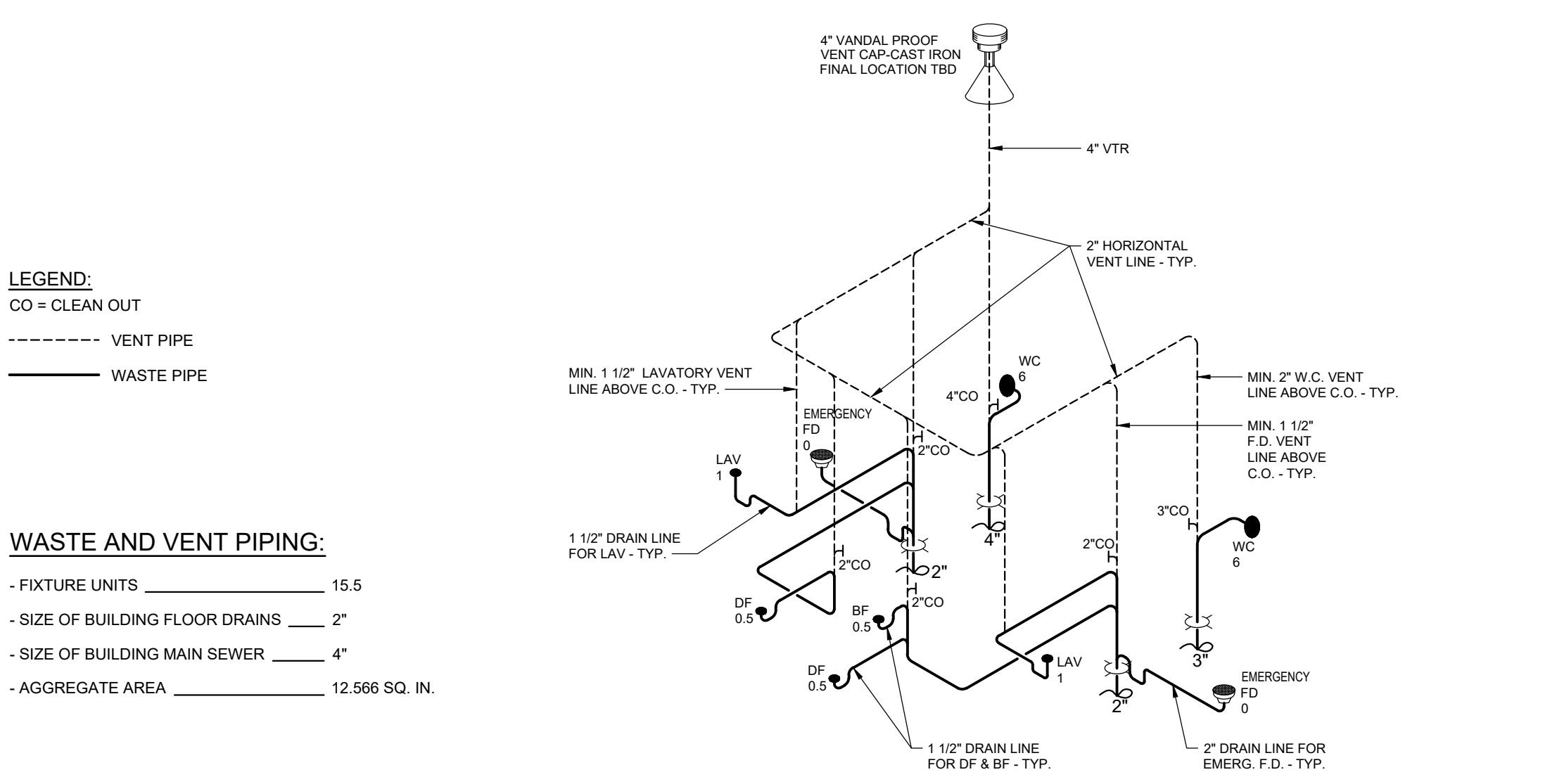
PROJECT OWNER:
CITY of SPARKS
Sparks, NV

PROJECT NAME AND LOCATION:
SHELLY PARK
Sparks, NV

SHEET TITLE:
PLUMBING PLANS & SCHEDULES

Drawn by: **NS** Job No. **10711**
Checked by: **RR**
Current Date: **01/12/2023**
Start Date: **09/13/2022**

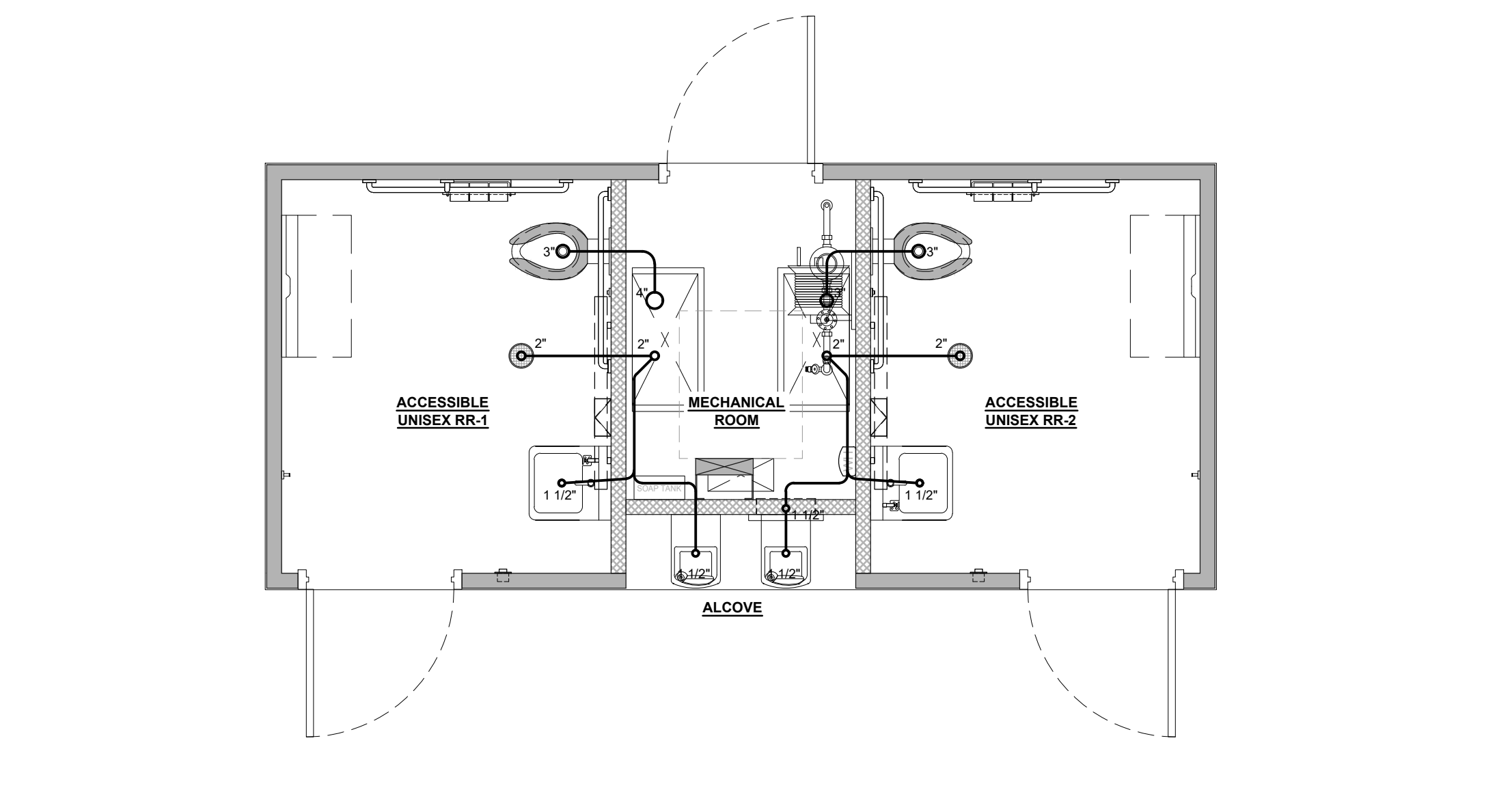
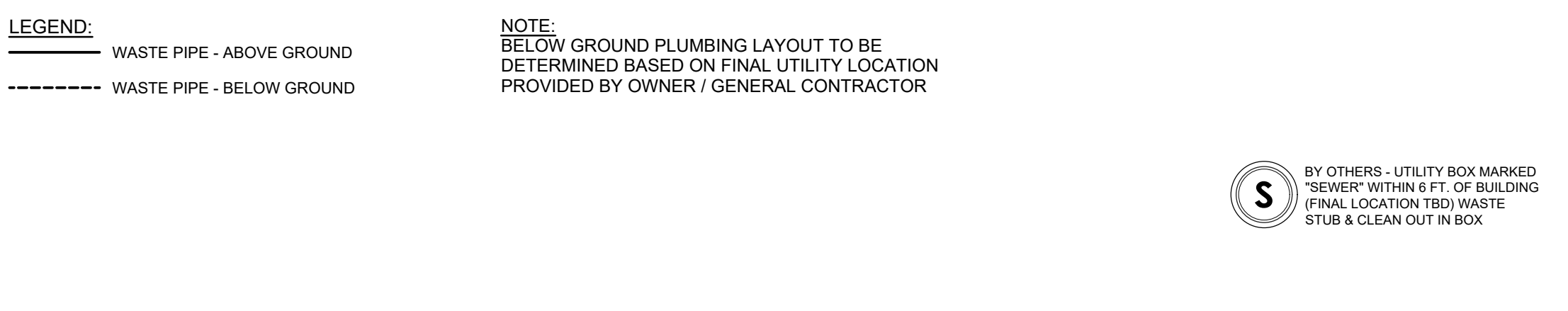
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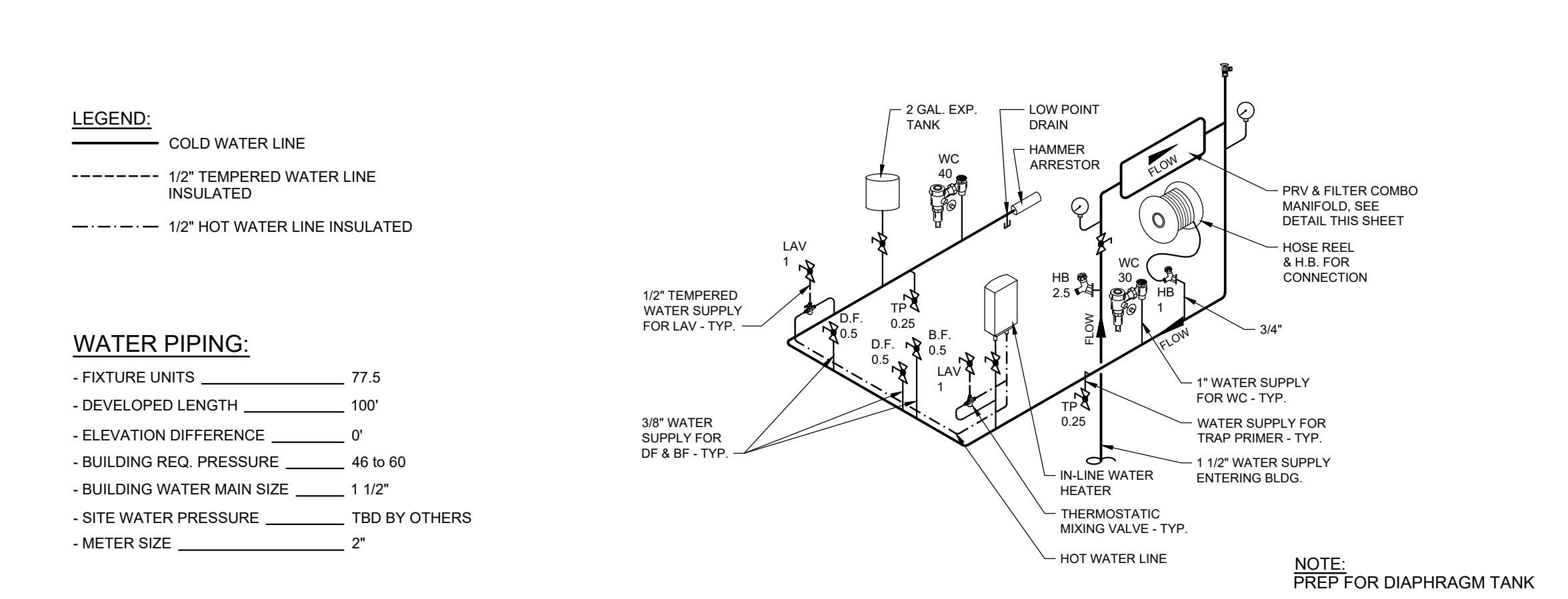
D.W.V. ABOVE GRADE PVC SCH 40 OR ABS SCH 40
D.W.V. BELOW GRADE PVC SCH 40 OR ABS SCH 40

- GENERAL NOTES:**
- SIZED TO 2018 UNIFORM PLUMBING CODE w/ NORTHERN NV AMENDMENTS
 - D.W.V. MATERIAL - P.V.C. or A.B.S.
 - D.W.V. UNDERGROUND MATERIAL - P.V.C. or A.B.S.
 - CONTINUATION OF WASTE TO MAIN SEWER TO BE DONE ON SITE BY OTHERS.
 - ALL FLOOR DRAINS SHALL TRAP IN UTILITY CHASE AND HAVE REMOVABLE TRAPS FOR WINTERIZATION.
 - RESTROOM FLOOR DRAIN TRAPS TO CONNECT TO D.W.V. IN UTILITY CHASE WITH STAINLESS STEEL BAND & NO HUB COUPLING.
 - V.T.R. SHALL BE CAST IRON WITH VANDAL CAP TO 24" BELOW ROOF.
 - LAVATORY TRAPS IN UTILITY CHASE SHALL HAVE DRAIN PLUGS FOR WINTERIZATION.
 - SLOPE ALL D.W.V. PIPING 1/4" NOM. DRAIN LINE TO BE SLOPED TO MAIN SEWER LINE.
 - INSTALL GRATES AT FLOOR OPENING IF APPLICABLE.

4 WASTE & VENT PIPING ISOMETRIC
SCALE: NOT TO SCALE



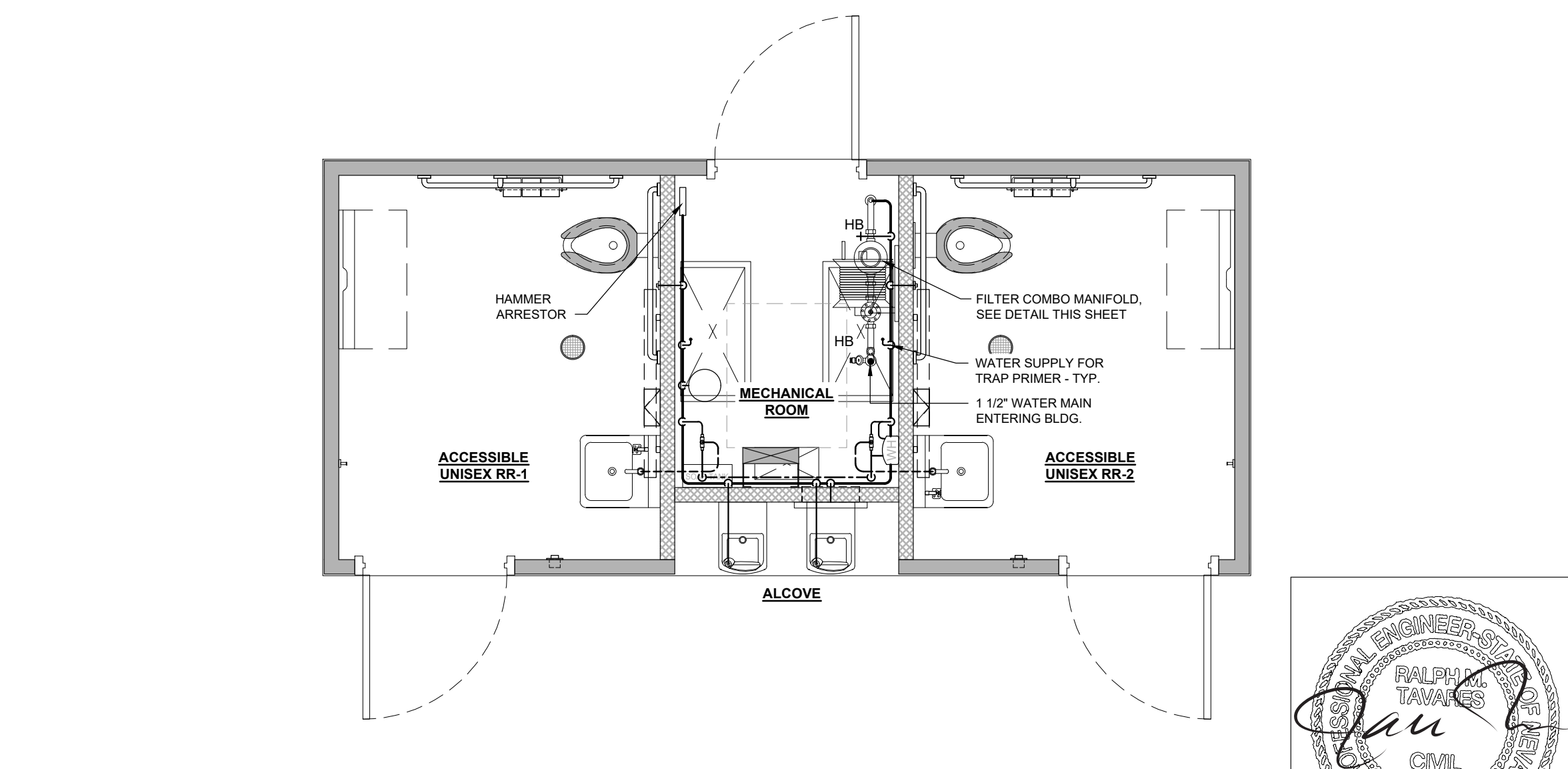
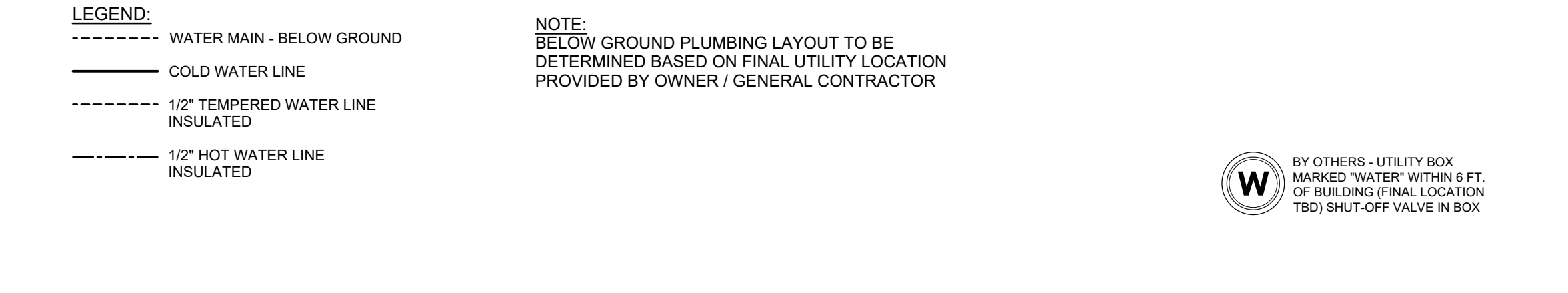
NOTE: THIS WATER SYSTEM IS DESIGNED WITH A MAXIMUM DEVELOPED LENGTH OF 100'. FROM THE METER TO THE BUILDING.
BUILDING PIPE SIZE IS 1 1/2"



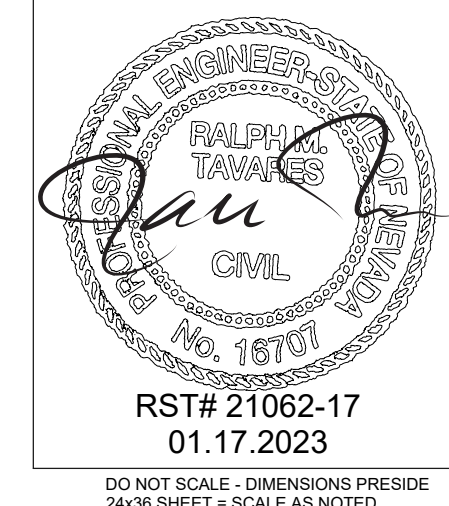
WATER LINE ABOVE GRADE PEX
WATER LINE BELOW GRADE TYPE "K" COPPER

- GENERAL NOTES:**
- SIZED TO 2018 UNIFORM PLUMBING CODE w/ NORTHERN NV AMENDMENTS
 - POTABLE WATER MATERIAL - PEX
 - HOT & TEMPERED WATER LINES (IF ANY) TO BE INSULATED
 - HAMMER ARRESTORS INSTALLED TO CODE
 - CONTINUATION OF WATER MAIN TO BE DONE ON SITE BY OTHERS
 - SLOPE ALL WATER PIPING TO LOW POINT DRAIN DRAINS FOR WINTERIZATION.
 - WATER HEATER SHALL BE ANCHORED OR STRAPPED PER CODE.

2 WATER PIPING ISOMETRIC
SCALE: NOT TO SCALE



1 PLUMBING PLAN - WATER SUPPLY
SCALE: NOT TO SCALE



CONSTRUCTION DOCUMENTS - 01/12/2023

SHELLY PARK - Sparks, NV

ELECTRICAL COMPONENTS SCHEDULE

SYMBOL	QTY.	DESCRIPTION	MODEL	HEIGHT	COMMENTS	PRC #
	1	120/240 SINGLE PHASE w/ PLUG-ON BREAKERS; NEMA 1 ENCLOSURE	SQUARE D QO120M100 (OR EQUAL)	72" A.F.F. TOP OF PANEL	FURR-OUT AS NEEDED	L1902
	2	25 WATT LED	LUMINAIRE SWP1212-25W-4000K-120V-OP-BRZ-OCC	110" A.F.F.	BUILT-IN OCCUPANCY SENSOR / BYPASS SWITCH	L1168
	2	15 WATT LED	LUMINAIRE YWP610-15W-4000K-120V-OP-BRZ	REFER TO SHEET A-2	PHOTOCELL / BYPASS SWITCH	L1162.5
	1	30 WATT LED	GREENLIGHTING AL-42L	CEILING MOUNTED	MANUAL ON/OFF SWITCH	L1108
	1	PHOTOCELL	INTERMATIC EK4336S	RECESSED ABOVE CAP BEAM	CONTROLS EXTERIOR LIGHTS	L1896
	1	DEDICATED 20 AMP GFCI RECEPTACLE	LEVITON GFNT2-W	48" A.F.F. TO TOP	-	L1876
	2	SINGLE POLE MANUAL ON/OFF SWITCH	(1) LEVITON 1221-2W // (1) LEVITON 1221-2R	MAX. 48" A.F.F. TO TOP	BYPASS SWITCH / UTILITY ROOM LIGHT SWITCH	L1868 / L1870
	1	DOUBLE POLE MANUAL ON/OFF SWITCH	LEVITON 1222-2W	MAX. 48" A.F.F. TO TOP	BYPASS SWITCH	L1872
	2	SURFACE MOUNTED ELECTRIC	DYSON AIRBLADE V	40" MAX. A.F.F. TO CONTROLS	-	L1417
	1	IN-LINE TANKLESS ELECTRIC WATER HEATER	STEBEL DHC-E 8/10	-	-	L1319.5
	1	EMERGENCY LIGHT	LITHONIA MODEL #ELM2L (OR EQUAL)	ABOVE CAP BEAM	WIRE AHEAD OF SWITCH	L1198
	2	WALL MOUNTED EXHAUST FAN WITH METAL GRILLE	BROAN MODEL #L100MG, 120VAC	108" A.F.F. TO TOP OF GRILLE	6" ROUND DUCT CONNECTOR #1106466; CONTROLLED BY LIGHT OCC. SENSOR	L1350
	2	ELECTROMAGNETIC DOOR LOCKS	SECURITRON SAM SYSTEM	-	BPS POWER SUPPLY & DT-7 TIMER	
	2	EMERGENCY EXIT BUTTON	SECURITRON SDC 643U (PUSH TO EXIT)	48" A.F.F. TO TOP	-	L1207
	2	COVE HEATER WITH BUILT-IN THERMOSTAT	Q-MARK MODEL #RC06012C w/ RCCT INTEGRAL THERMOSTAT	MOUNTED ON CAP BEAM	FOR FREEZE PROTECTION - CONTROLLED BY BUILT-IN THERMOSTAT	L1304
	1	MECHANICAL ROOM HEATER w/ BUILT-IN THERMOSTAT	KING MODEL #U12100	MOUNTED IN MECH. ROOM	FOR FREEZE PROTECTION - CONTROLLED BY BUILT-IN THERMOSTAT	L1297

LIGHTING CONTROLS SCHEDULE

AREA	CONTROLS
RESTROOMS	OCCUPANCY SENSOR BUILT-IN TO LIGHT FIXTURE / BYPASS SWITCH "ON" OVERRIDES OCC. SENSOR FOR MAINTENANCE
MECHANICAL ROOM	MANUAL ON/OFF SWITCH
EXTERIOR	PHOTOCELL / BYPASS SWITCH "ON" OVERRIDES PHOTOCELL FOR MAINTENANCE

NOTES:

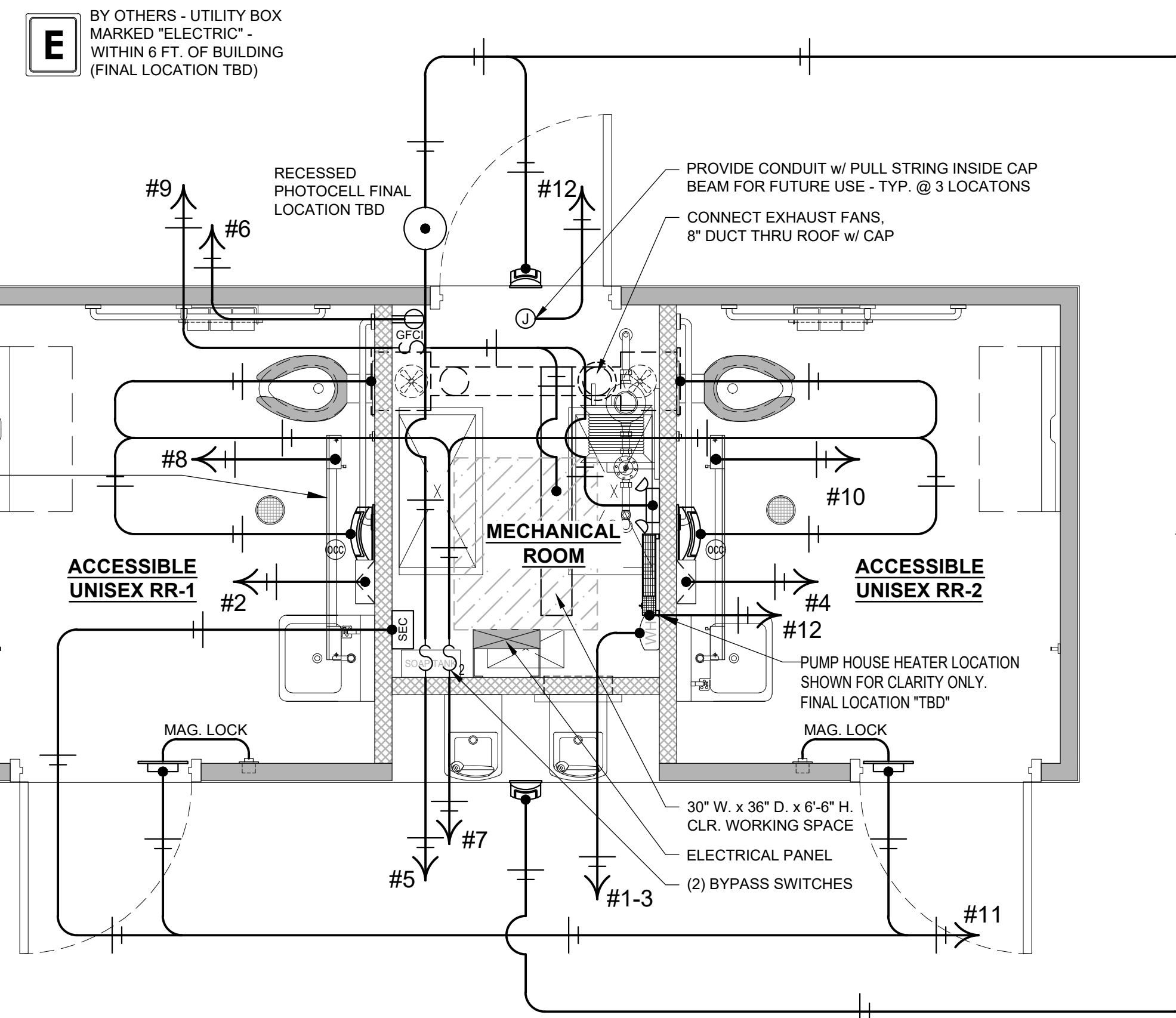
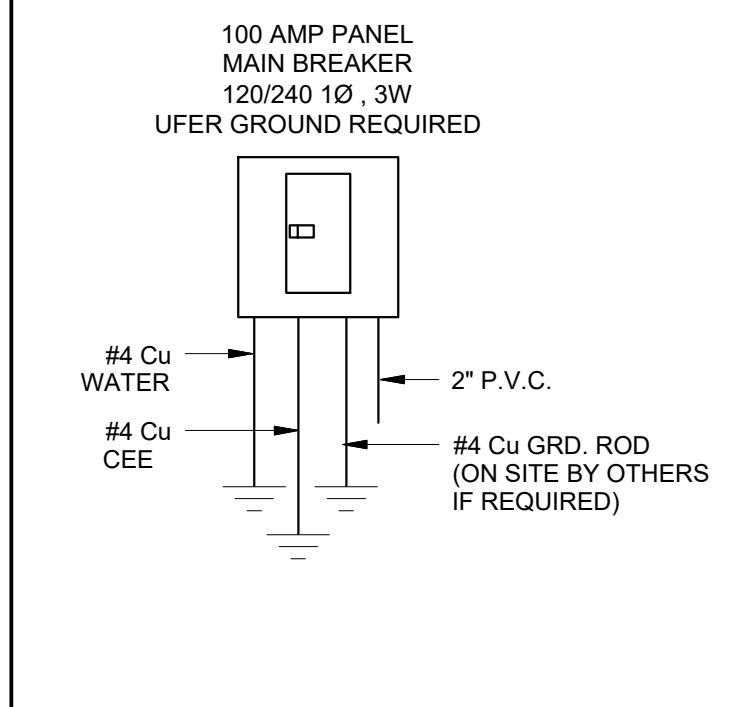
- ALL CONDUCTORS ARE THINN SHIELDED COPPER WIRES.
- RATING OF STANDARD PANEL IS 22,000 A.I.C.
- WIRING METHOD IN METALLIC CONDUIT. (MC CABLE, EMT, METALLIC FLEX).
- INSTALL CEE GROUND IN SLAB, TERMINATING IN UTILITY CHASE.
- GREEN GROUNDING CONDUCTOR IN ALL RACEWAYS.

PANEL SCHEDULE

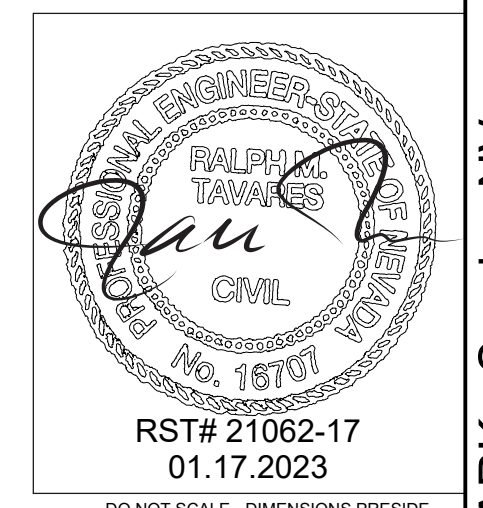
NOTE: ALL CONDUCTORS COPPER					MAIN BREAKER		100 AMP PANEL SINGLE PHASE				
CKT	DESCRIPTION	CIR. BREAKER TRIP AMPS	WIRE SIZE	TOTAL V.A.	100 AMP	TOTAL V.A.	WIRE SIZE	CIR. BREAKER TRIP AMPS	DESCRIPTION	CKT	
1	IN-LINE WATER HEATER	40	8	4800		1000	12	20	HAND DRYER / ACCESSIBLE UNISEX RR-1	2	
3	"	"	"	4800		1000	12	20	HAND DRYER / ACCESSIBLE UNISEX RR-2	4	
5	EXTERIOR LIGHTS	20	12	30		1500	12	20	DEDICATED RECEPTACLE - GFCI	6	
7	RESTROOM LIGHTS / EXHAUST FANS	20	12	224		500	12	20	COVE HEATER	8	
9	MECHANICAL ROOM LIGHTS	20	12	33		500	12	20	COVE HEATER	10	
11	ELECTROMAGNETIC DOOR LOCKS	20	12	120		1000	12	20	PUMP HOUSE HEATER	12	
13										14	
15										16	
17										18	
19										20	

ELECTRICAL LOAD CALCULATIONS

PANEL: 120/240 VOLTS		SINGLE PHASE		100 AMP MAIN BREAKER	
COMPONENT	CONNECTED LOAD (V.A.)	CALCULATED LOAD (V.A.)			
EXTERIOR LIGHTING	30	CONNECTED LOAD x 1.25		37.50	
INTERIOR LIGHTING	83	CONNECTED LOAD x 1.25		103.75	
(1) IN-LINE WATER HEATER	9600	CONNECTED LOAD x 1.00		9600.00	
(1) DEDICATED RECEPTACLE - GFCI	1500	CONNECTED LOAD x 1.00		1500.00	
(1) HAND DRYER (LARGEST MOTOR)	1000	CONNECTED LOAD x 1.25		1250.00	
(1) HAND DRYER	1000	CONNECTED LOAD x 1.00		1000.00	
(2) EXHAUST FANS	174	CONNECTED LOAD x 1.00		174.00	
HEATER (FREEZE PROTECTION)	2000	CONNECTED LOAD x 1.25		2500.00	
ELECTROMAGNETIC DOOR LOCKS	120	CONNECTED LOAD x 1.00		120.00	
TOTAL LOAD	15507	TOTAL LOAD		16285.25	
TOTAL CONNECTED LOAD	KVA	15.507	TOTAL CALCULATED LOAD	KVA	16.285
	AMPS	64.613		AMPS	67.855



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E-1 **ELECTRICAL PLAN**
SCALE: NOT TO SCALE



RST# 21062-17
01.17.2023

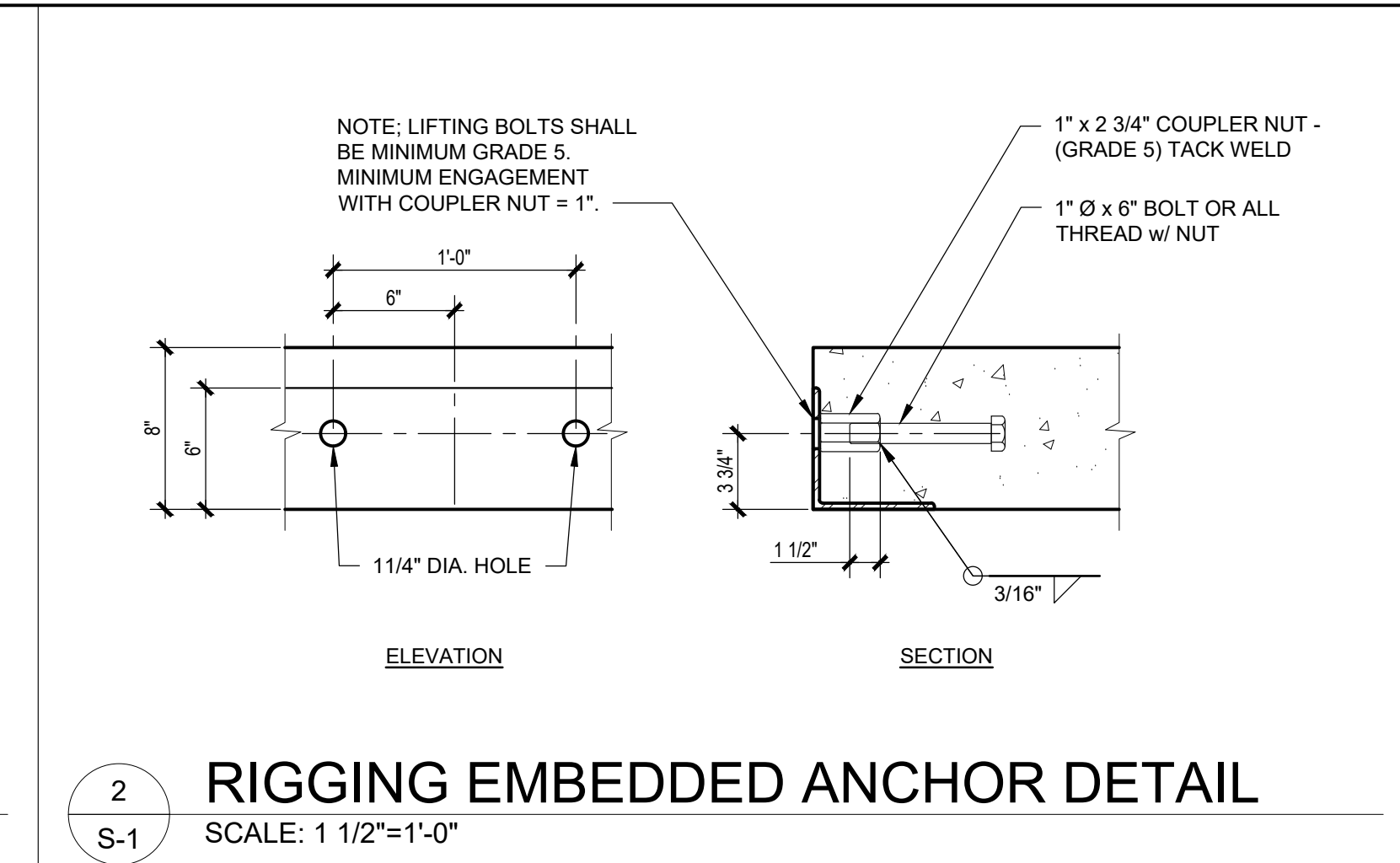
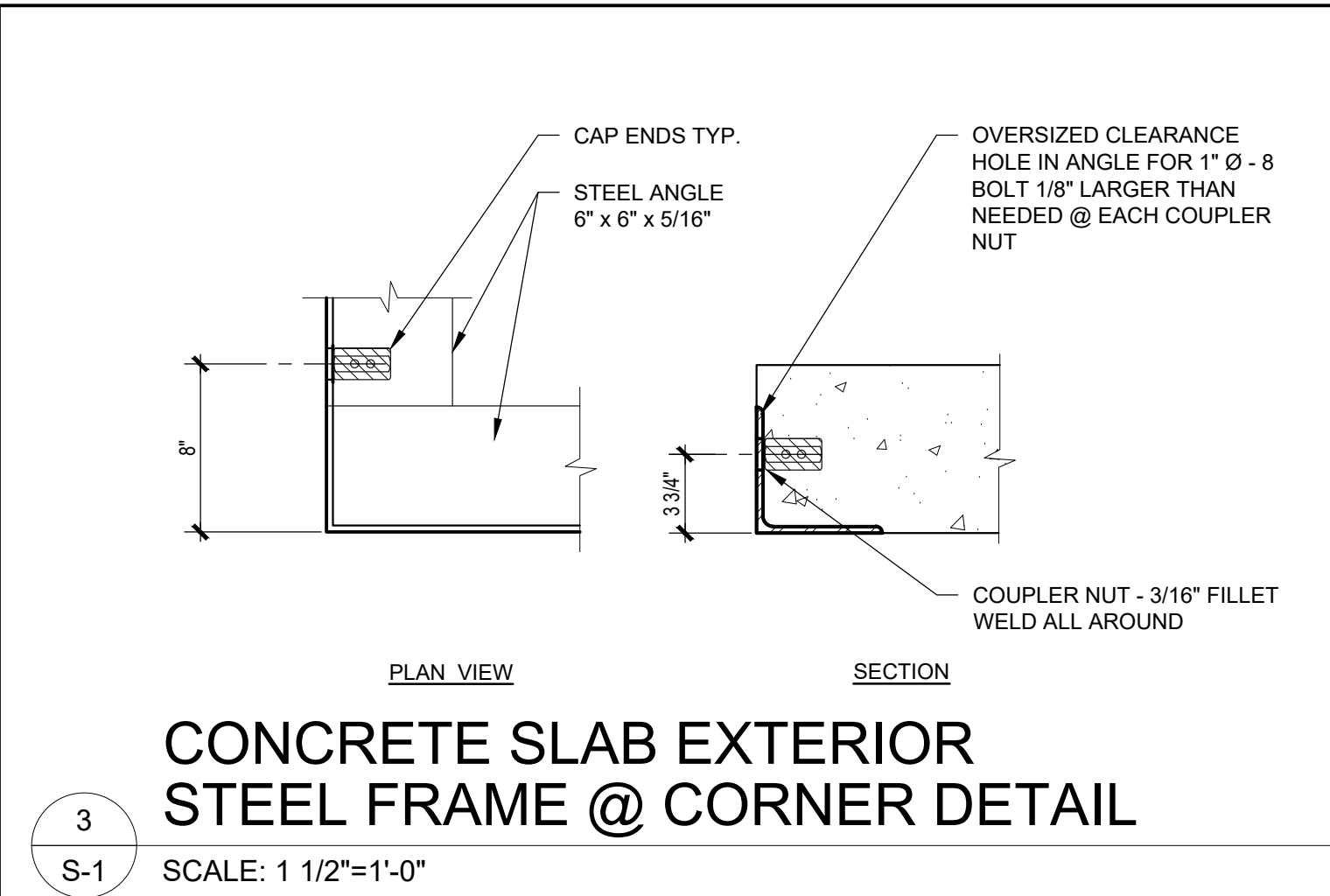
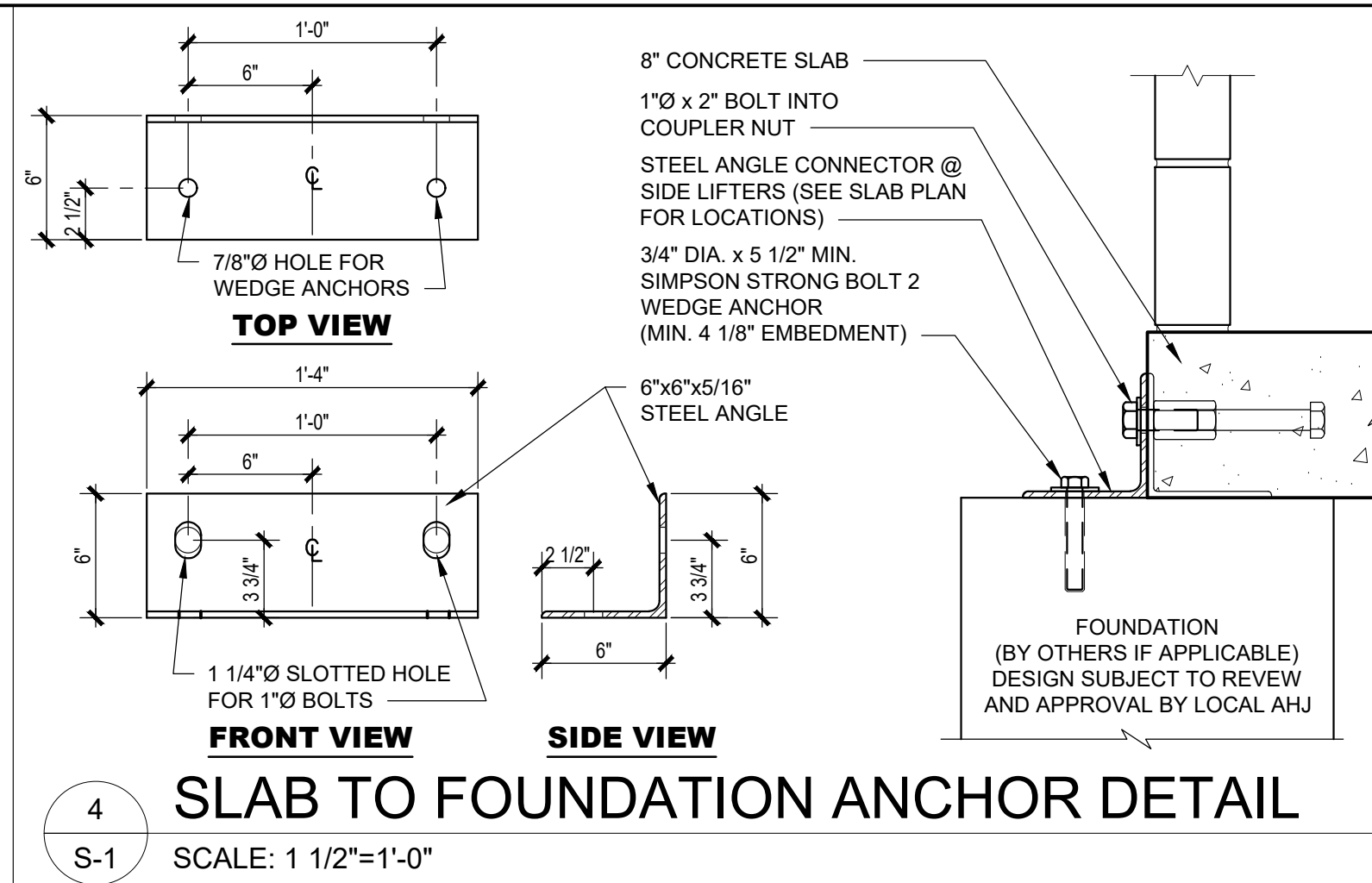
DO NOT SCALE - DIMENSIONS PRESIDE
24x36 SHEET - SCALE AS NOTED
11x17 SHEET - NTS

CONSTRUCTION DOCUMENTS - 01/12/2023

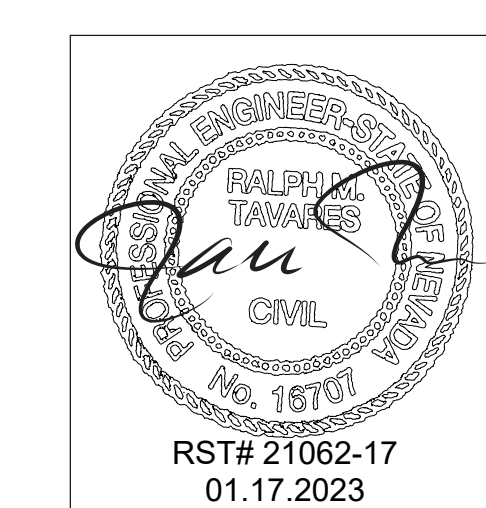
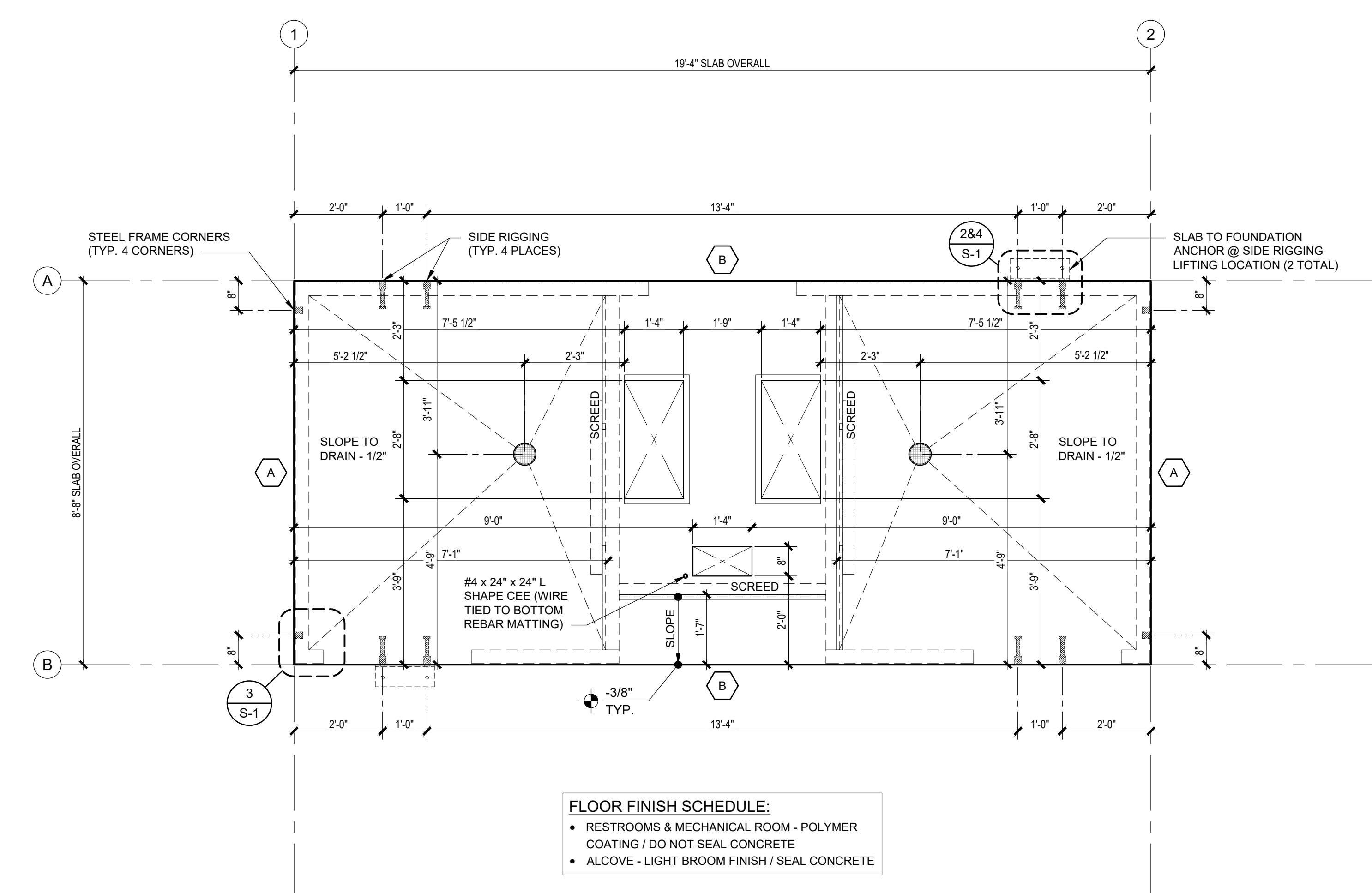
SHELLY PARK - Sparks, NV

NOTES: (LIGHT WEIGHT CONCRETE)

- ALL REBAR TO BE GRADE 60.
- ALL WELDABLE REINFORCEMENTS TO BE ASTM A706.
- CONCRETE STRENGTH BASIS DESIGN IS MIN. 2500 PSI WITH SPECIAL ADDITIVE.
- MINIMUM CONCRETE COVER = 1 1/2" FOR #4 AND #5 BARS. TOP BARS MAY BE LOWER ONLY WHERE REQUIRED BY SPECIFIED SLOPES.
- PROVIDE (2) #5 BARS @ 8" O.C. TOP & BOTTOM AT PERIMETER OF EACH SLAB & PROVIDE (3) #5 BARS @ 8" O.C. TOP & BOTTOM AT EACH LIFTING LOCATION.
- TOP MAT: ADD TRIMMER BARS NEXT TO BLOCK OUTS IF CLEARANCE TO REGULAR LAYOUT IS GREATER THAN 2". TRIMMER BARS EXTEND 18" PAST OPENING, OR TERMINATE WITH 90° HOOK AND 8" EXTENSION. CENTER OF TRIMMER BARS TO BLOCK OUTS TO BE 2", TYP.
- PROVIDE (2) DIAGONAL 24" LONG #4 REBARS (1 @ TOP MAT & 1 @ BOTTOM MAT) @ EACH SLAB OPENING.
- SMALL BLOCK OUTS (8" x 8" MAX.) MAY BE ADDED AS REQUIRED FOR SERVICES. ADD DIAGONAL TRIMMER BARS IF CLEARANCE TO REGULAR LAYOUT IS GREATER THAN 2".
- SPLICES: #4 BARS - 20" LAP
#5 BARS - 24" LAP
- PROTECT PIPE & FLOOR DRAINS THAT WILL BE ENCASED IN THE CONCRETE BY PROVIDING AN APPROVED WRAP.
- ONLY WHERE NOTED, IT IS ACCEPTABLE TO NOTCH HORIZONTAL LEG OF PERIMETER ANGLE.
- ALL EXPOSED FACES OF SLAB PERIMETER STEEL ANGLES SHALL RECEIVE GALVANIZING PAINT COATING.



SLAB LOADS SCHEDULE			
MARK	LOCATION	VERTICAL LOAD	LATERAL LOAD
A	WALL LINE (GRID) 1 & 2	1200 PLF	1480 LBS
B	WALL LINE (GRID) A & B	930 PLF	1380 LBS



RST# 21062-17
01.17.2023
DO NOT SCALE - DIMENSIONS PRESIDE
24x36 SHEET - SCALE AS NOTED
11x17 SHEET - NTS

No.	Description	Date	CONSTRUCTION DOCUMENTS 01/12/2023	COPYRIGHT 2022, PUBLIC RESTROOM COMPANY THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF PUBLIC RESTROOM COMPANY AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY THE WRITTEN PERMISSION OF PUBLIC RESTROOM COMPANY	 PUBLIC RESTROOM COMPANY Building Better Places To Go. 2587 Business Pkwy, Minden, NV 89423 Ph: 888-888-2060 Fax: 888-888-1448	PROJECT OWNER: CITY of SPARKS Sparks, NV	PROJECT NAME AND LOCATION: SHELLY PARK Sparks, NV	SHEET TITLE: CONCRETE SLAB & STEEL PERIMETER PLAN & DETAILS	Drawn by: NS Job No. 10711 Checked by: RR Current Date: 01/12/2023 Start Date: 09/13/2022	S-1

CONSTRUCTION DOCUMENTS - 01/12/2023
SHELLY PARK - Sparks, NV

OWNER / GENERAL CONTRACTOR AND PUBLIC RESTROOM COMPANY RESPONSIBILITIES

PUBLIC RESTROOM COMPANY RESPONSIBILITIES:

1. PROVIDE FULL ARCHITECTURAL PLANS AND ENGINEERING CALCULATIONS, STAMPED BY STATE GOVERNING AGENCY SUITABLE FOR GENERAL CONTRACTOR TO FILE FOR REQUIRED BUILDING PERMIT.
2. FURNISH AND INSTALL UNDERGROUND UTILITIES UNDER SLAB (INCLUDING TRENCHING) EXTENDING 6 FEET MAX. BEYOND THE BUILDING LINE, MIN. OF 24" - MAX OF 36" BELOW GRADE.
3. FURNISH AND INSTALL SLAB TO FOUNDATION ANCHORS PER DETAILS INCLUDED HEREIN. APPLICABLE ONLY TO BUILDINGS WITH FOUNDATIONS.

GENERAL NOTES:

1. THE DIFFERENCE IN THE ELEVATION BETWEEN THE FINISH FLOOR OF THE BUILDING AT EXTERIOR DOORS AND THE SIDEWALK OUTSIDE IS 1/4" MAX. PRC RECOMMENDS SIDEWALK TO BE FLUSH WITH FINISH FLOOR AT ALL DOORS.
2. THE PLAN & DETAILS HEREIN ARE SPECIFIC TO THE BUILDING SIZE AND MODULE CONFIGURATION OF THIS BUILDING MODEL.

OWNER / GENERAL CONTRACTOR RESPONSIBILITIES:

1. PREPARE BUILDING PAD AND OR FOUNDATION.
2. PROVIDE SITE PLAN & ENGINEERED FOUNDATION PLAN (IF APPLICABLE) AND ATTACH IT TO THE PUBLIC RESTROOM COMPANY'S DEPARTMENT OF HOUSING APPROVED DOCUMENTS AND OBTAIN NECESSARY PERMITS FROM LOCAL JURISDICTION.
3. VERIFY AND SCHEDULE NECESSARY INSPECTIONS WITH LOCAL JURISDICTION FOR SITE PERFORMED WORK BY OTHERS, AND FOR UNDER BUILDING SLAB PLUMBING CONNECTIONS MADE BY PRC.
4. COORDINATE SEWER INVERT ELEVATION WITH THE PUBLIC RESTROOM COMPANY PRIOR TO BUILDING INSTALLATION, VERIFY & COORDINATE LOCATION OF EXISTING UTILITIES INCLUDING WATER METER SIZE, TYPE, AND LOCATION OF EXISTING UTILITIES COMING INTO THE BUILDING SUPPLIED BY PRC
5. MAKE FINAL UTILITY CONNECTIONS (INCLUDING NECESSARY UTILITY BOXES).
6. PREPARE SITE FOR MINIMUM ALLOWABLE SOIL BEARING PRESSURE OF 1,500 psf, WITH SUB-GRADE COMPACTED TO 90% M.D.D.
7. SUPPLY AND STOCK PILE REQUIRED QUANTITY OF COARSE MASON SAND WITHIN BUILDING PROXIMITY FOR USE BY PRC FOR UTILITY TRENCH BACKFILL.
8. PROJECTS WITH FOOTINGS: PROVIDE SLEEVES IN FOOTINGS ACCORDING TO UTILITY LOCATION PLAN AND PAD / FOUNDATION PLAN DIRECTION.

GENERAL SITE CONDITION LIABILITY NOTE:

PUBLIC RESTROOM COMPANY (PRC) PROVIDES BUILDING PAD / FOUNDATION PLAN DRAWINGS FOR PLACEMENT OF OUR BUILDING ON SITE FOUNDATIONS / PADS FOR **REFERENCE ONLY**. PRC DRAWINGS DO NOT INCORPORATE SITE DESIGN FOR LOCAL CODES, SOILS CONDITIONS, FOOTING REQUIREMENTS, AND / OR ANY OTHER CONTRIBUTING SITE FACTORS UP TO AN INCLUDING HIGH WATER TABLES. IT IS THE RESPONSIBILITY OF THE OWNER / GENERAL CONTRACTOR TO PROVIDE A PROPER SITE DESIGN TO ACCOMMODATE THE BUILDING AS WELL AS PROVIDE PROPER SITE CRITERIA SO PRC MAY MODEL SEWER, WATER, AND ELECTRICAL DESIGNS WITHIN THE BUILDING. OUR BUILDING DESIGN INCLUDES AN 8" THICK REINFORCED CONCRETE SLAB AND ASSUMES FULL SLAB BEARING ON SOILS WITH A MINIMUM OF 1500 PSF BEARING CAPACITY. OUR BUILDING DESIGNS SURCHARGE THE SOIL BENEATH THE MAT SLAB AT APPROXIMATE 208 PSF. ANY BUILDING FOUNDATION IN ADDITION TO THE INTEGRAL MAT SLAB ARE SHOWN FOR **REFERENCE ONLY** AND SHOULD BE VERIFIED BY A LICENSED SOILS ENGINEER TO CONFORM WITH REQUIRED CODES.

PRC ASSUMES NO LIABILITY FOR THE OWNER OR GENERAL CONTRACTOR ACCEPTANCE OF THESE TYPICAL DRAWINGS WITHOUT VERIFICATION BY A LICENSED SOILS / FOUNDATION ENGINEER.



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BUILDING TYPE:

RESTROOM BUILDING

DATE: 03/13/2023

DRAWN BY:

PROJECT #: 10711

NS

PROJECT:

**SHELLY PARK
SPARKS, NV**

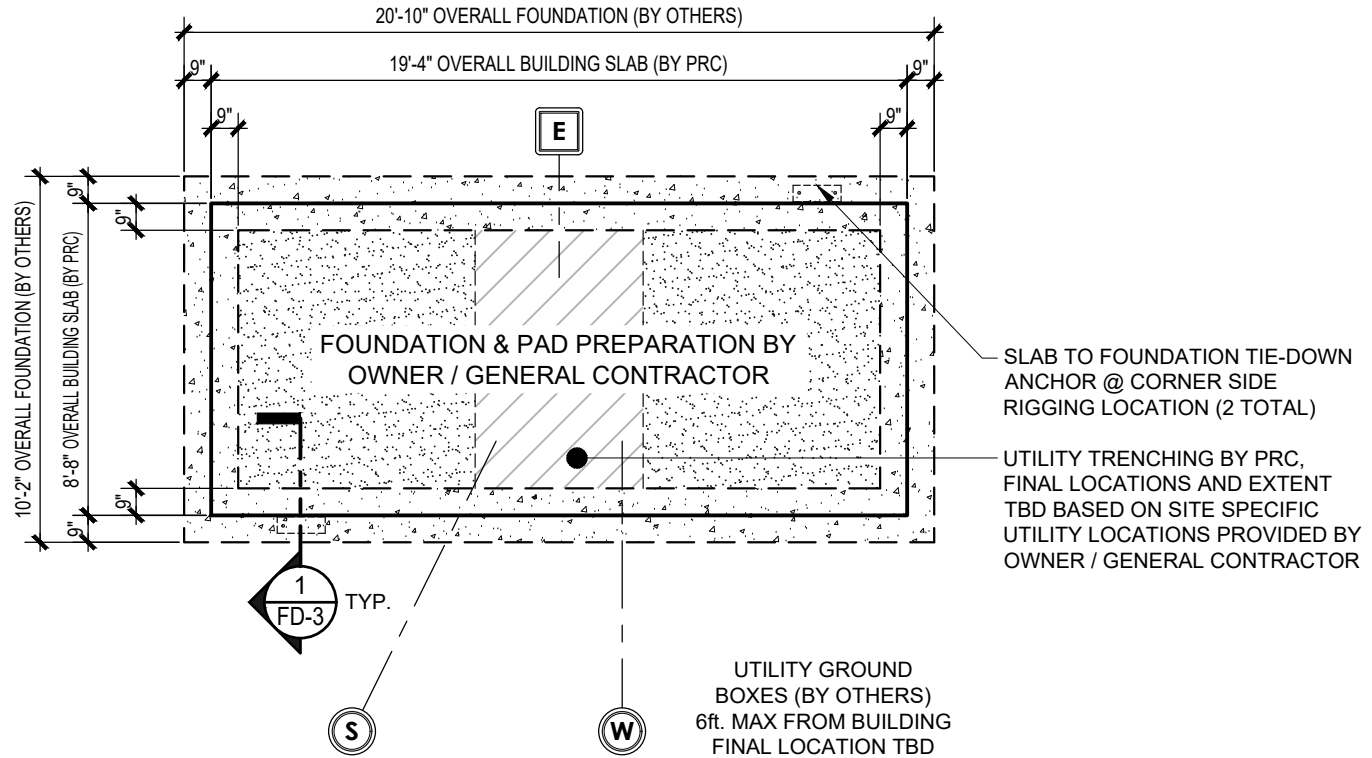
SHEET:

FD-1

1 OF 4

NOTES:

1. BOTTOM OF PRE-FAB BLDG. MANUFACTURERS SLAB IS DEAD FLAT. TOP OF FOOTINGS & COMPACTED BACK FILL MUST BE DEAD LEVEL. POUR FOOTING WITH LASER TRANSIT TO VERIFY TOP OF FOOTING. IF SHIM PLATES ARE REQUIRED A CHANGE ORDER IS REQUIRED.
2. REQUIRED ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF; FIELD VERIFIED BY OTHERS



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FD-2 **FOUNDATION / PAD PREPARATION PLAN**
SCALE: NOT TO SCALE

PRELIMINARY FOR REFERENCE ONLY



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BUILDING TYPE:

RESTROOM BUILDING

PROJECT:

**SHELLY PARK
SPARKS, NV**

DATE: 03/13/2023

DRAWN BY:

PROJECT #: 10711

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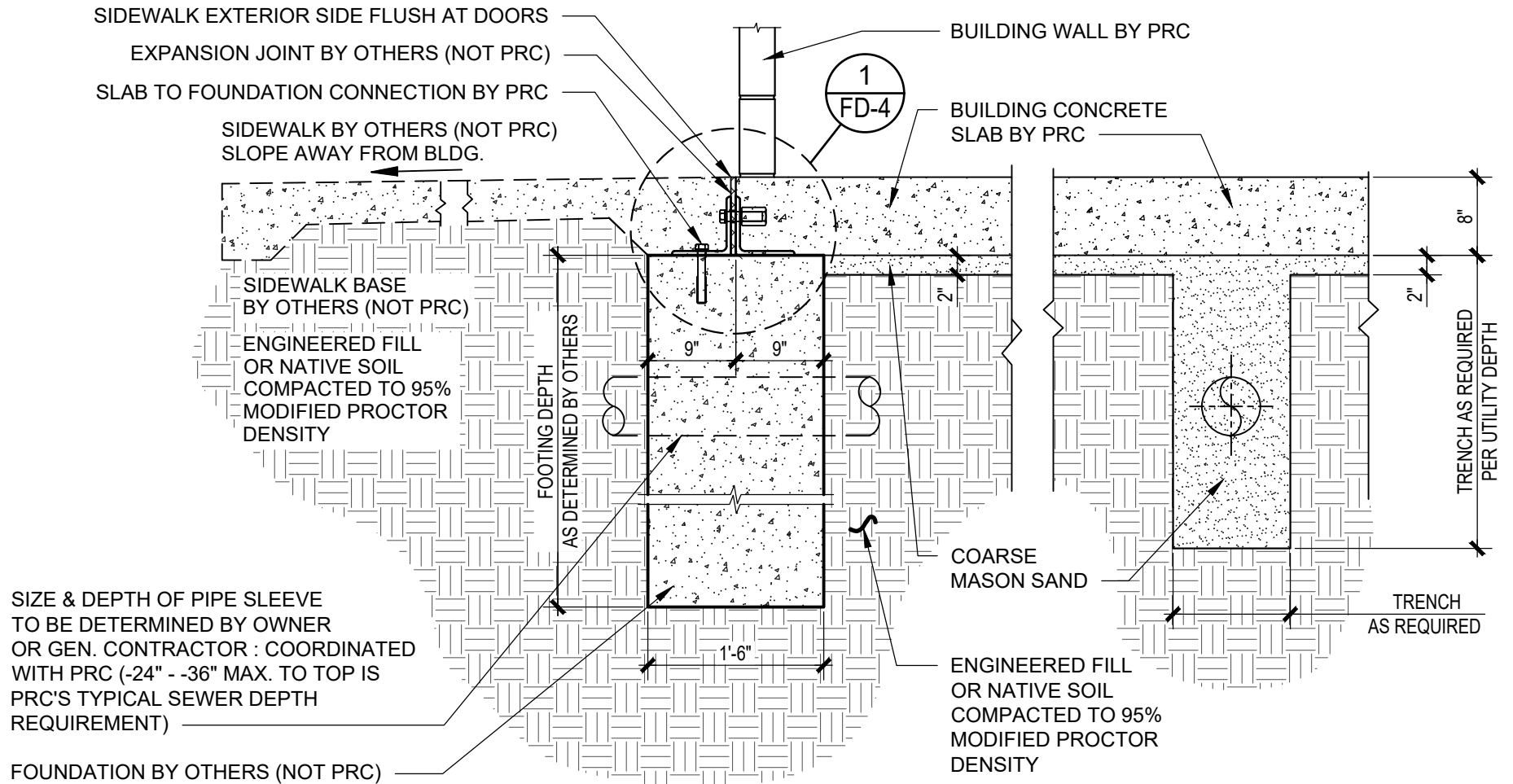
FD-2

2 OF 4

NOTES:

1. BOTTOM OF PRE-FAB BLDG. MANUFACTURERS SLAB IS DEAD FLAT. TOP OF FOOTINGS & COMPACTED BACK FILL MUST BE DEAD LEVEL. POUR FOOTING WITH LASER TRANSIT TO VERIFY TOP OF FOOTING. IF SHIM PLATES ARE REQUIRED A CHANGE ORDER IS REQUIRED.

2. REQUIRED ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF; FIELD VERIFIED BY OTHERS



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FD-3

TYPICAL FOUNDATION SECTION DETAIL

SCALE: NOT TO SCALE



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BUILDING TYPE:

RESTROOM BUILDING

PROJECT:

**SHELLY PARK
SPARKS, NV**

DATE: 03/13/2023

DRAWN BY:

PROJECT #: 10711

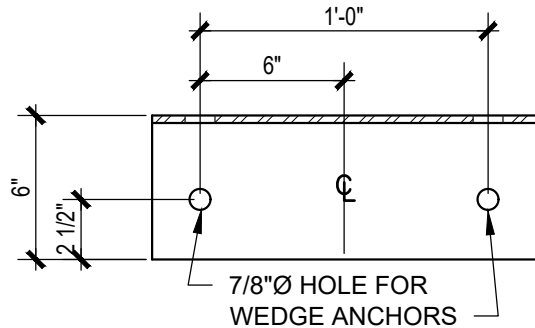
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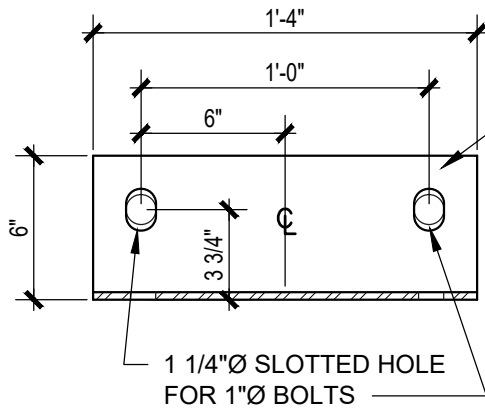
FD-3

3 OF 4

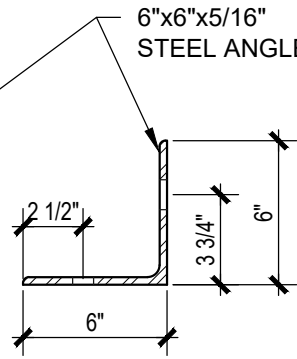
NOTE:
QUANTITY AND LOCATIONS OF ANCHORS TO BE DETERMINED BY PRC ENGINEER



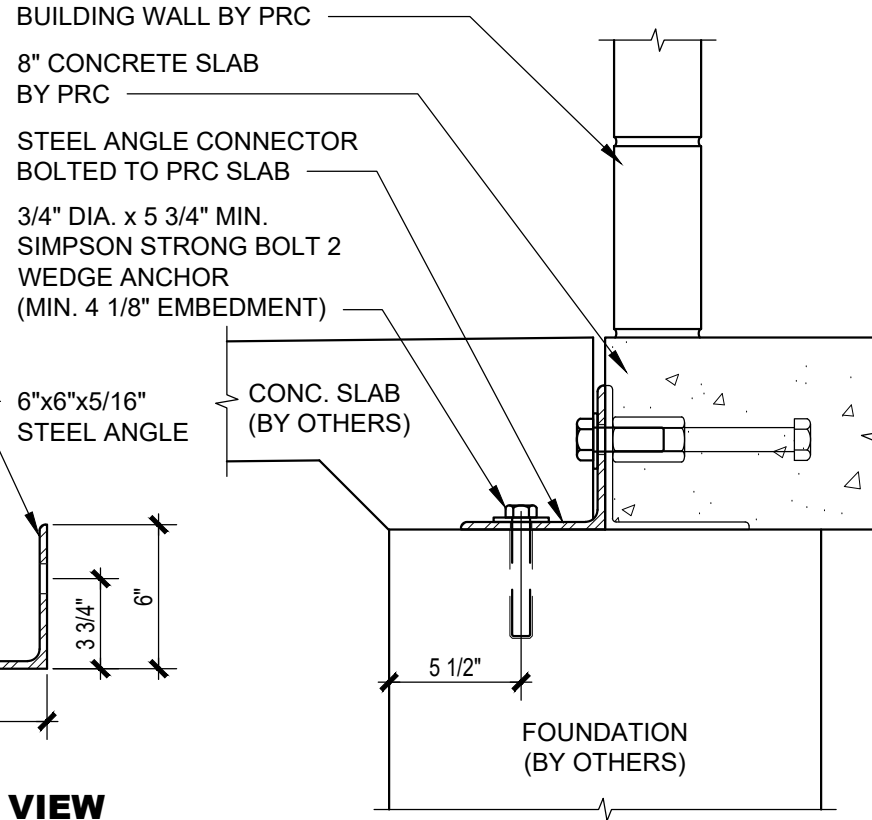
TOP VIEW



FRONT VIEW



SIDE VIEW



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 FD-4

SLAB TO FOUNDATION ANCHOR DETAIL (BY PRC)

SCALE: NOT TO SCALE



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BUILDING TYPE:

RESTROOM BUILDING

PROJECT:

**SHELLY PARK
 SPARKS, NV**

DATE: 03/13/2023

DRAWN BY:

PROJECT #: 10711

NS

SHEET:

FD-4

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