Wednesday, March 9, 2022
Development Review Committee

DEVELOPMENT REVIEW COMMITTEE AGENDA
PUBLIC NOTICE is hereby given that the Development Review Committee of Spanish Fork, Utah, will hold a regular meeting in the City Council Chambers at the Spanish Fork City Office Building, 40 South Main Street, Spanish Fork, Utah, commencing at 10:00 a.m. This meeting is not available to attend virtually.

1. Site Plan

Subject	**A. ACTIVE AUTO. The proposal involves commercial development of a site located at 3381 North Main Street.**
Meeting	Mar 9, 2022 - Development Review Committee
Category	1. Site Plan
Access	Public
Type	Action, Discussion

File Attachments
report.drc.activeauto.3-9-2022.pdf (10,964 KB)
plan.1.activeauto.2-9-2022.pdf (6,943 KB)
plan.electrical.activeauto.3-7-2022.pdf (5,003 KB)
plan.landscape.activeauto.2-9-2022.pdf (2,035 KB)
plan.2.activeauto.2-9-2022.pdf (8,106 KB)
elevations.activeautobuilding.9-9-2021.pdf (3,739 KB)

2. Conditional Use Permit and Site Plan

Subject	**A. SUVSWD ENVIRONMENTAL RECOVERY AND TRANSFER CENTER. The proposal involves industrial development of a site and approval of a Conditional Use for a Solid Waste Transfer Facility to be located at approximately 3450 North 400 West.**
Meeting	Mar 9, 2022 - Development Review Committee
Category	2. Conditional Use Permit and Site Plan
Access	Public
Type	Action, Discussion

File Attachments
report.drc.suvswdtransfer.3-9-2022.pdf (18,821 KB)
plans.suvswd.2-17-2022.pdf (24,610 KB)
Site Plan Engineering Comment Resolution - 03-01-2022.pdf (19,628 KB)
plat.suvswd.2-17-2022.pdf (930 KB)
plan.landscape.suvswdtransfercenter.2-1-2022.pdf (3,106 KB)
plan.building.suvswdtransfercenter.2-1-2022.pdf (1,925 KB)
doc.elevation.suvswdtransfercenter.2-1-2022.pdf (1,288 KB)

memo.suvswdtransfercenter.2-1-2022.pdf (206 KB)
memo.suvswdenviornmentalrecovery.3-1-2022.pdf (2,817 KB)

3. Annexation

Subject	**A. OBERG ANNEXATION. Acceptance of the Oberg Annexation for further study.**
Meeting	Mar 9, 2022 - Development Review Committee
Category	3. Annexation
Access	Public
Type	Action, Discussion

File Attachments
report.drc.oberg.3-9-2022.pdf (875 KB)
plat.oberg.3-7-2022.pdf (1,794 KB)

4. Concept Review

Subject	**A. CAR WASH.**
Meeting	Mar 9, 2022 - Development Review Committee
Category	4. Concept Review
Access	Public
Type	Discussion

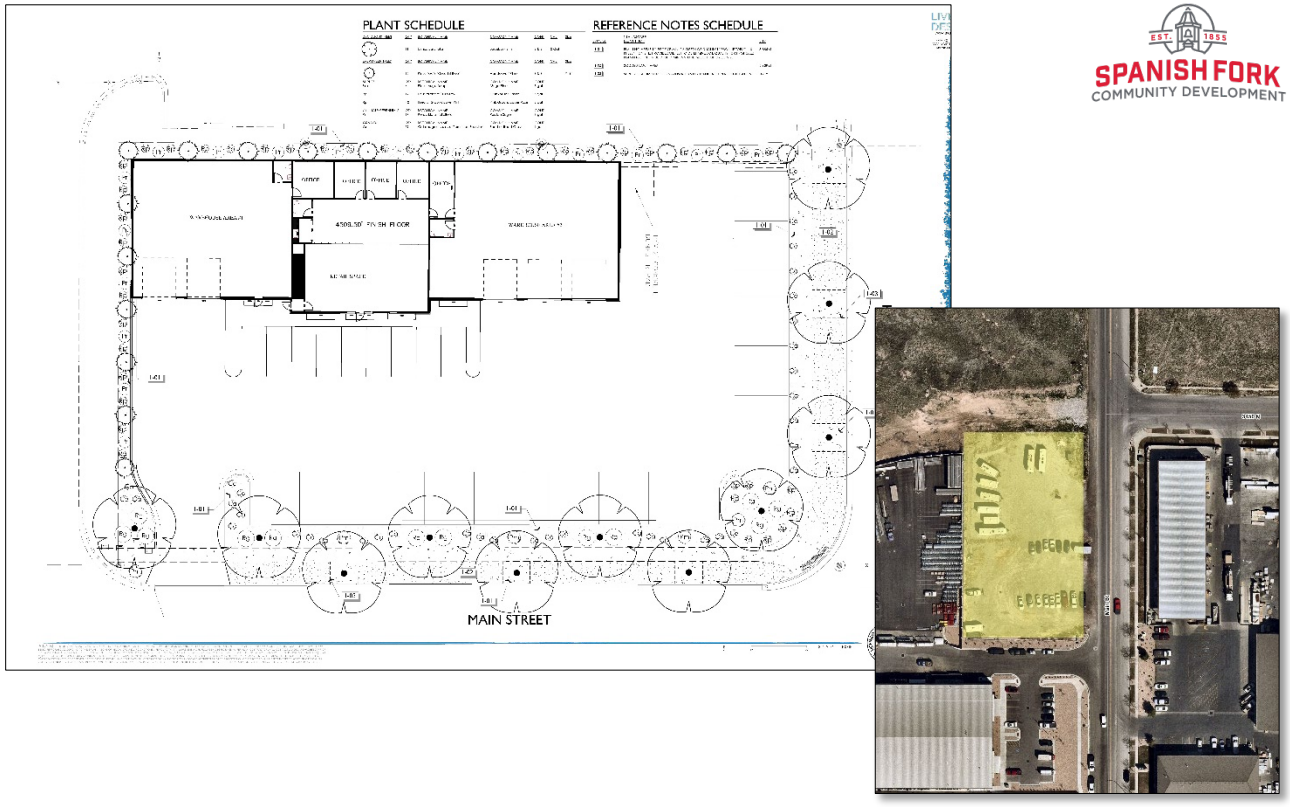
File Attachments
concept.carwash.3-3-2022.pdf (1,283 KB)

5. Title 13 Amendment

Subject	**A. EXTENSION OF UTILITY SYSTEMS. The proposal involves a revision regarding utility extensions to properties outside of the City.**
Meeting	Mar 9, 2022 - Development Review Committee
Category	5. Title 13 Amendment
Access	Public
Type	Action, Discussion

File Attachments
Memo - Extension of Utility Service beyond City Limits.pdf (54 KB)

6. Adjourn



Active Auto Site Plan Approval Request

March 9, 2022, Development Review Committee Meeting.

Located at approximately 3381 North Main Street, including 0.91 acres.

The subject property is zoned I-1.

The applicant has requested that a Site Plan be approved. No outdoor storage is proposed by the applicant.

Application date: September 7, 2021

Completed reviews: 3

Key Issues

1. Parking.
2. Landscaping.
3. Setbacks (Fire Walls).
4. Public Utility Easements.
5. Power.

Recommendation

Staff recommends that the proposed Site Plan be approved based on the following finding and subject to the following conditions:

Finding

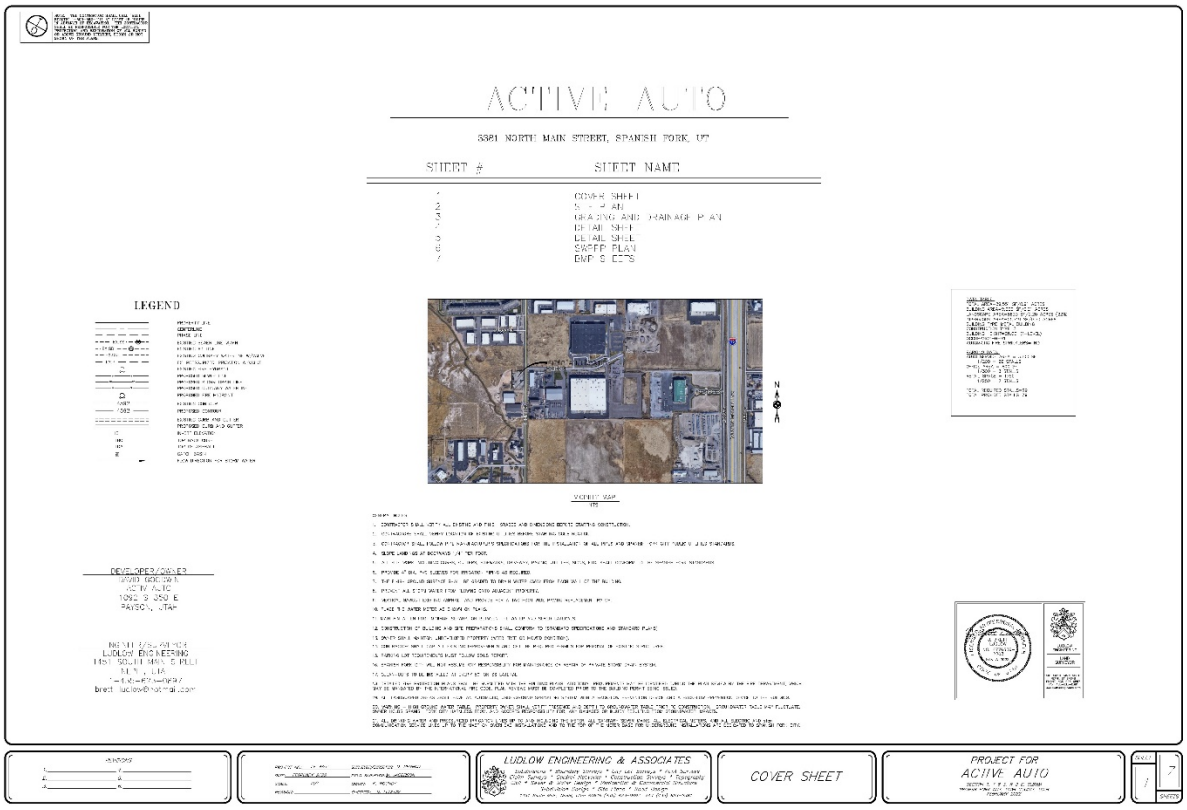
1. That the project conforms to the City's General Plan Land Use Designation.

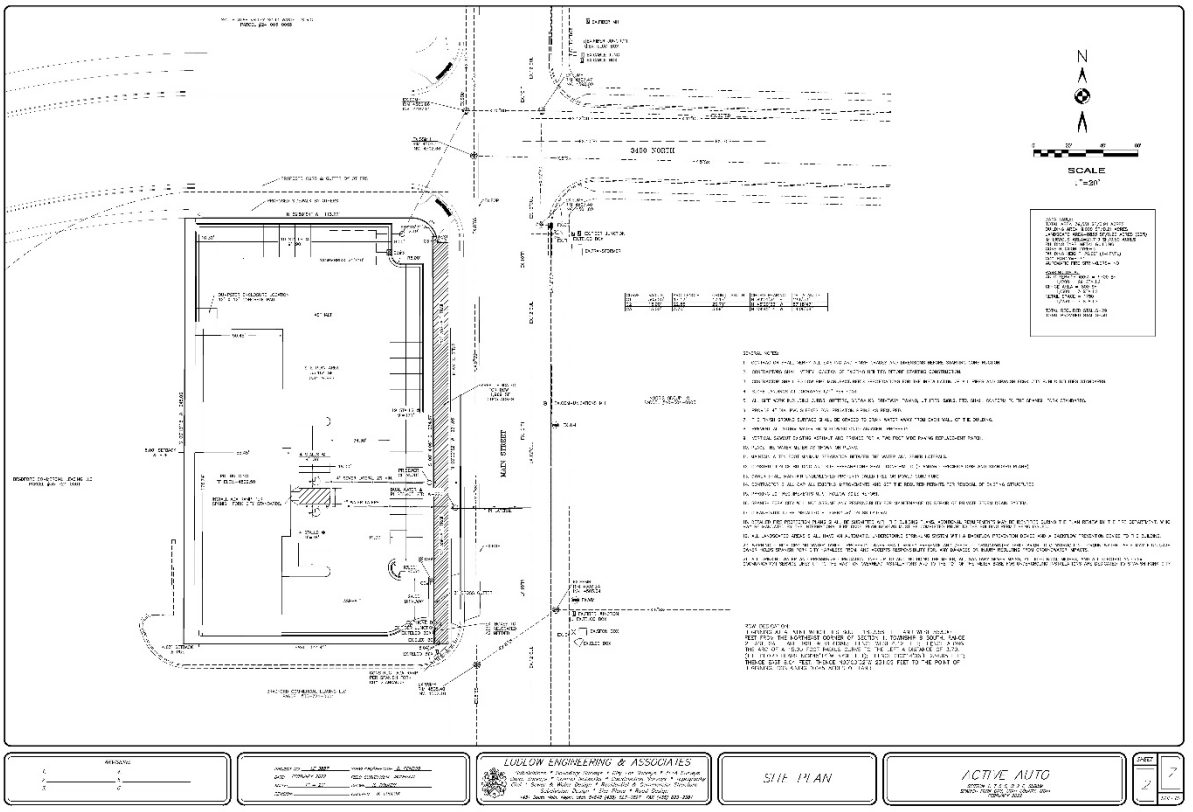
Conditions

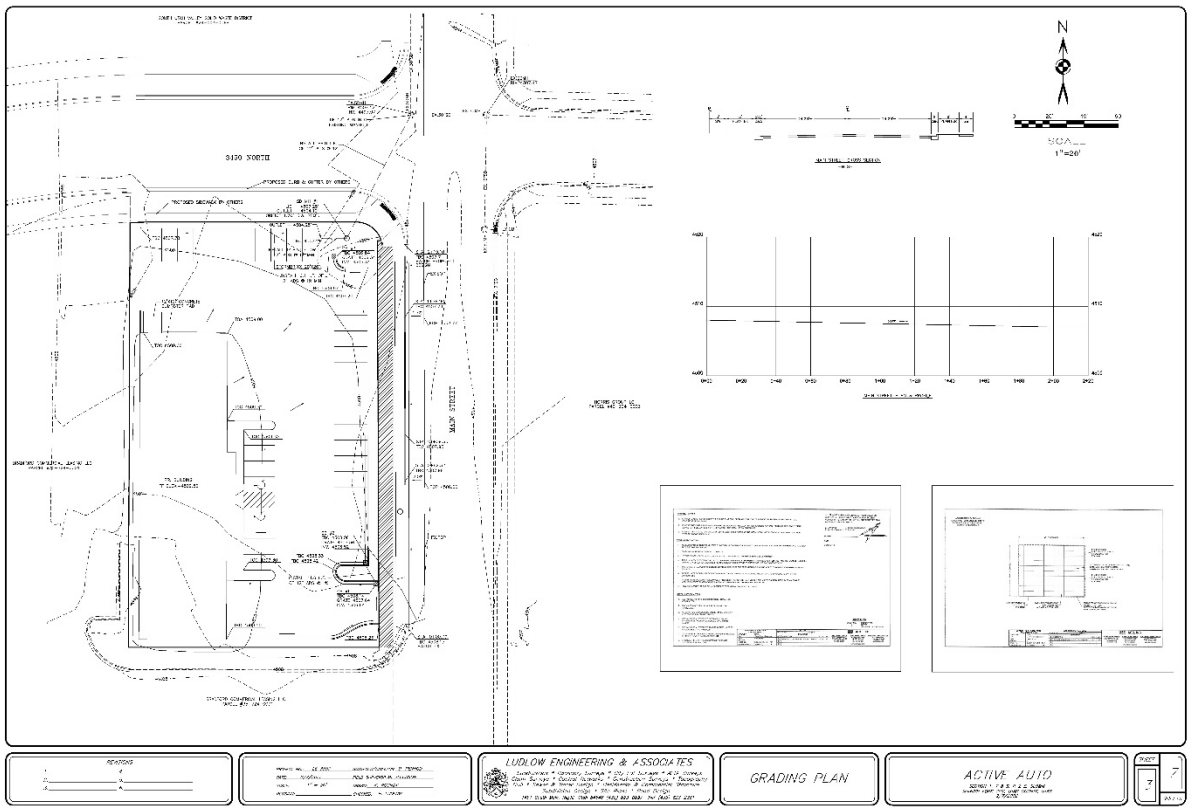
1. That the applicant meets the City's Zoning Requirements and Construction Standards.
2. That the applicant addresses any red-lines.
3. That Site Plan approval is contingent upon recordation of the road dedication and completion of the associated improvements.

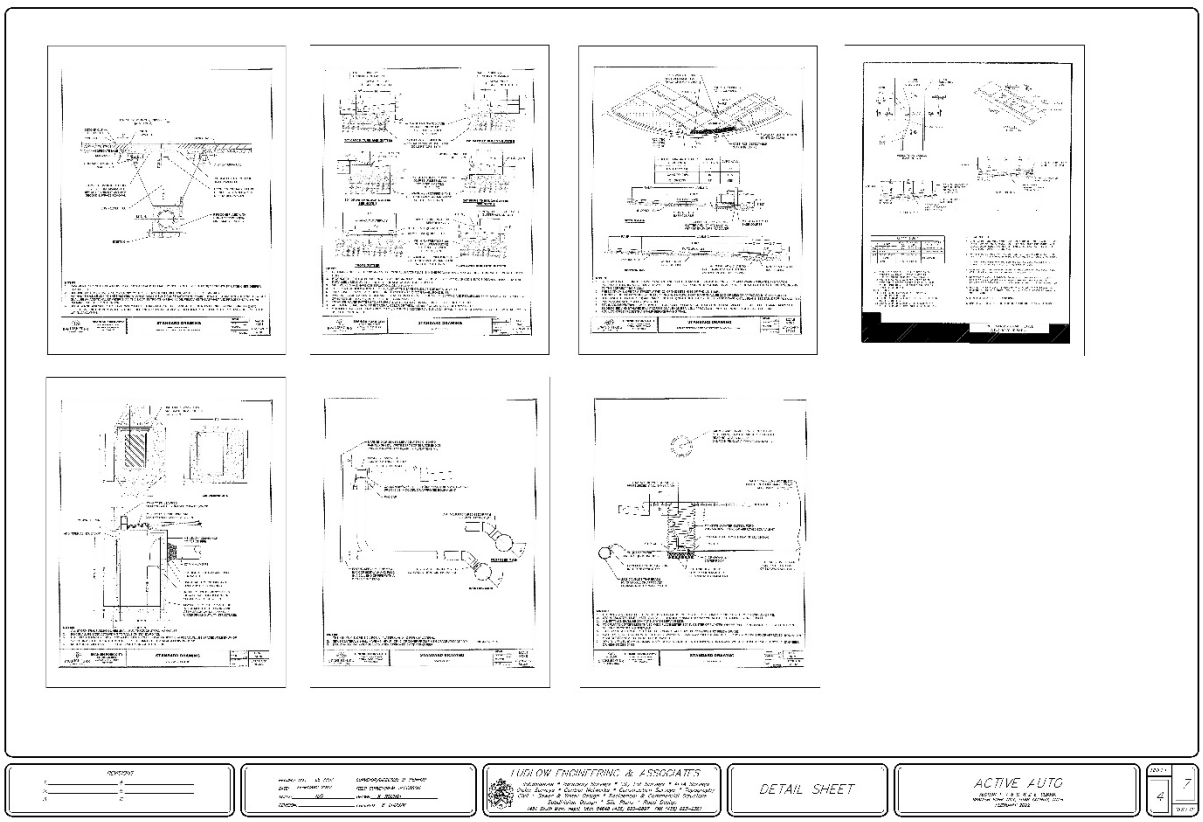
Exhibits

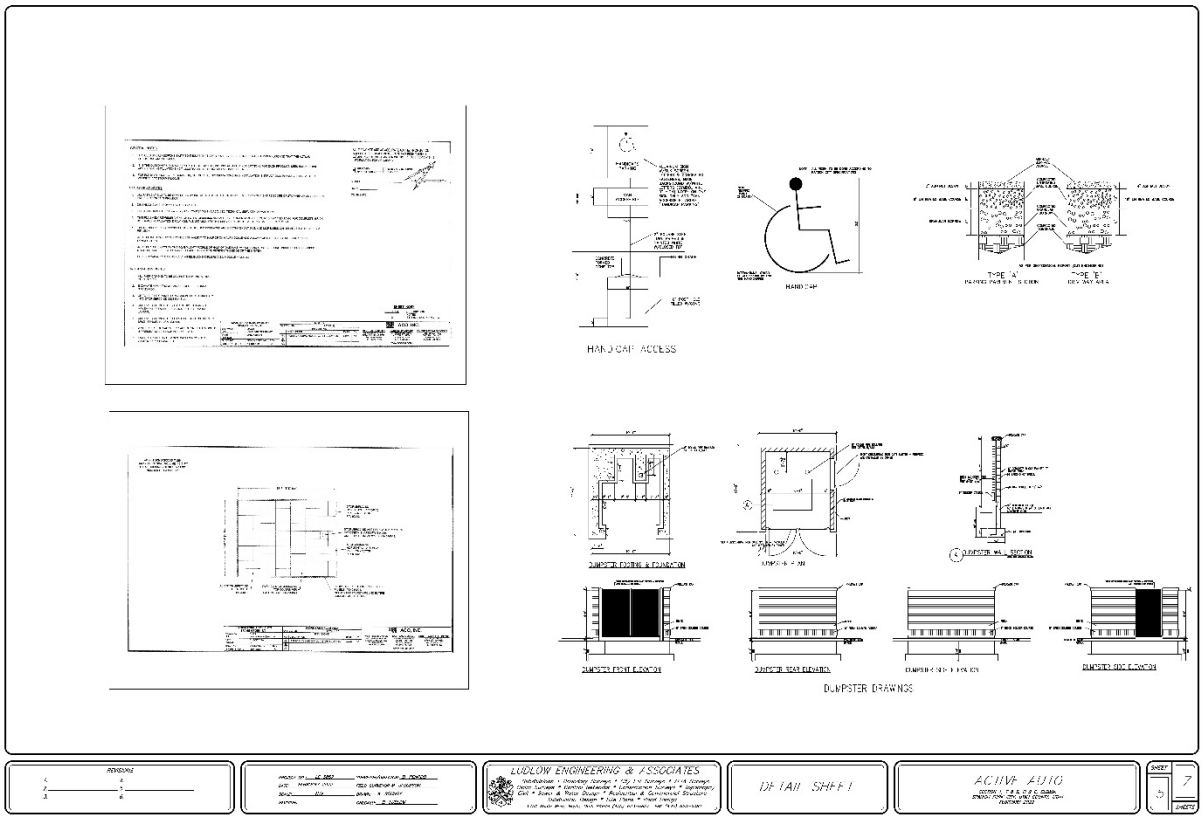
1. Civil Plans.
2. Power.
3. Landscaping Plan.
4. Building Plans.
5. Elevations.

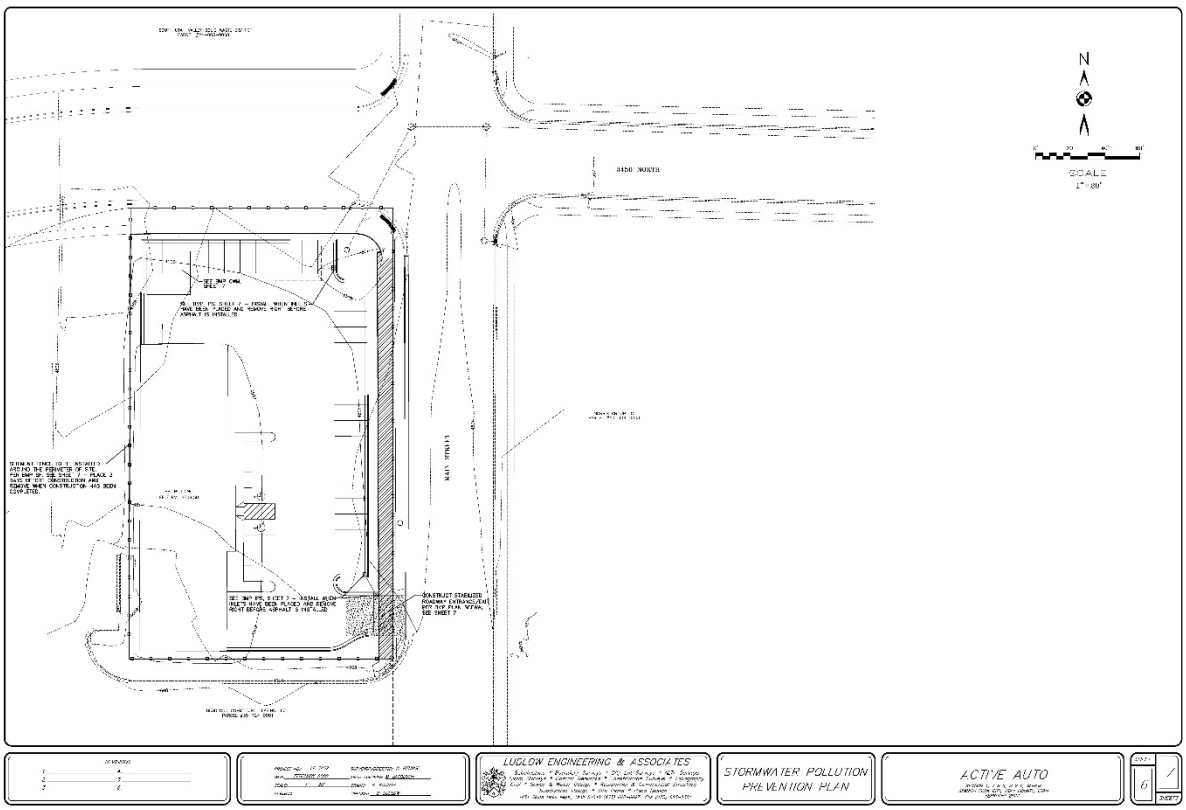

ACTIVE AUTO
5321 NORTH MAIN STREET, SPANISH FORK, UT
SHEET #
SHEET NAME
COVER SHEET
SITE PLAN
GRADING AND DRAINAGE PLAN
DETAIL SHEET
DETAIL SHEET
SWEEP PLAN
BMP'S DETS
LEGEND
VICINITY MAP
DEVELOPER/OWNER
LUDLOW ENGINEERING
LUDLOW ENGINEERING & ASSOCIATES
COVER SHEET
PROJECT FOR
ACTIVE AUTO


3450 SOUTH
MAIN STREET
SCALE
LUDLOW ENGINEERING & ASSOCIATES
SITE PLAN
ACTIVE AUTO


N
1"=20'
MAIN STREET
LUDLOW ENGINEERING & ASSOCIATES
GRADING PLAN
ACTIVE AUTO


LUDLOW ENGINEERING & ASSOCIATES
DETAIL SHEET
ACTIVE AUTO


HANDICAP ACCESS
DUMPSTER DRAWINGS
LUDLOW ENGINEERING & ASSOCIATES
DETAIL SHEET
ACTIVE AUTO


N
SCALE
LUDLOW ENGINEERING & ASSOCIATES
STORMWATER POLLUTION PREVENTION PLAN
ACTIVE AUTO

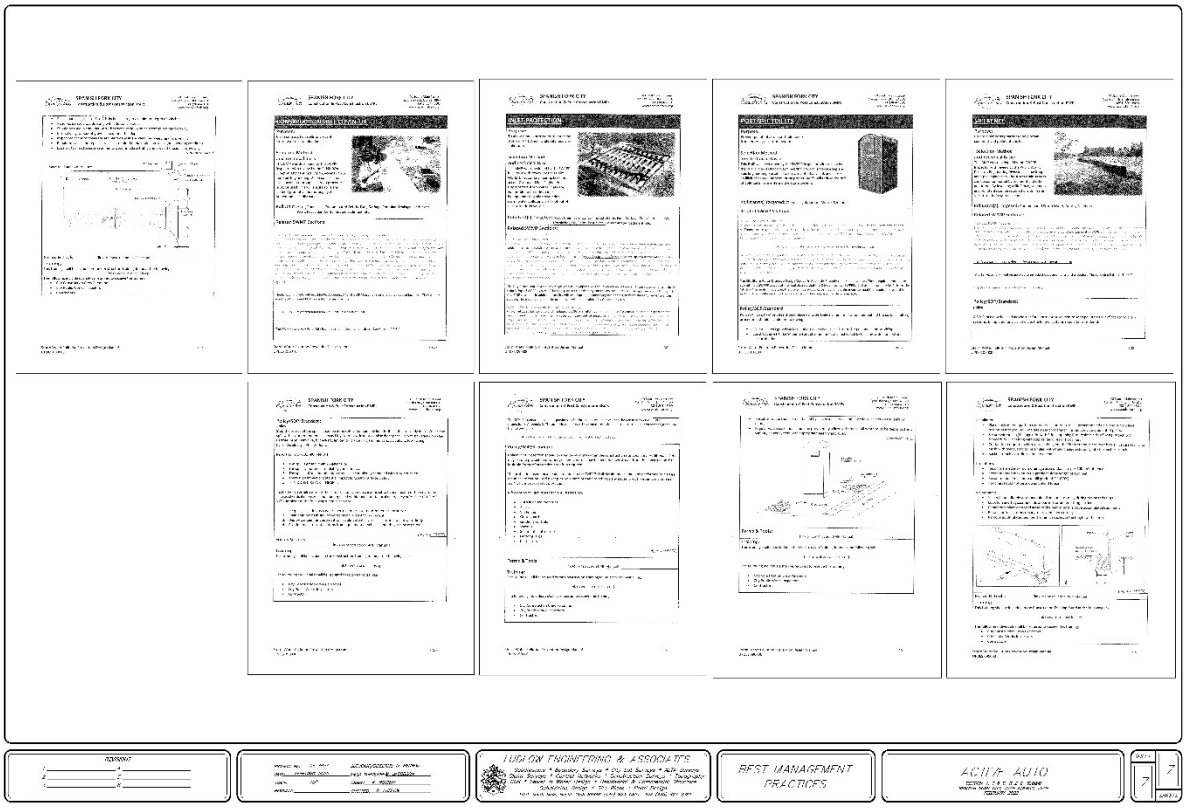
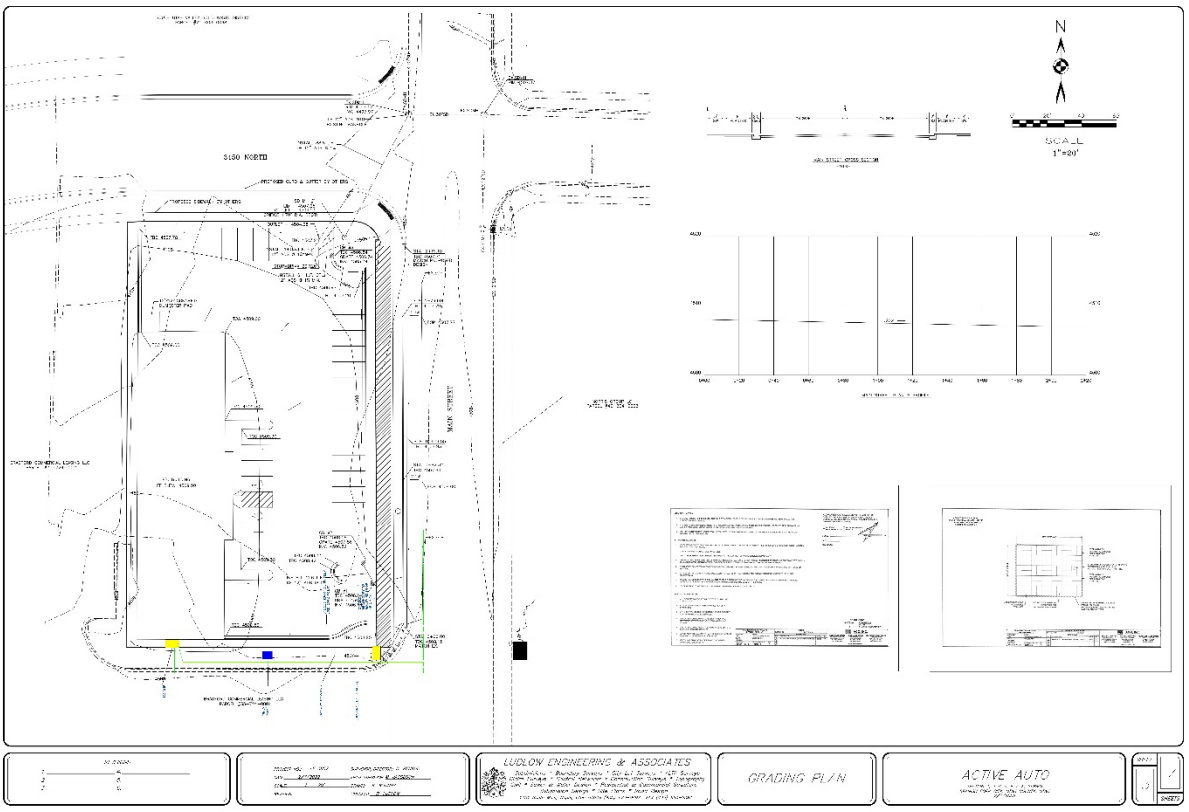
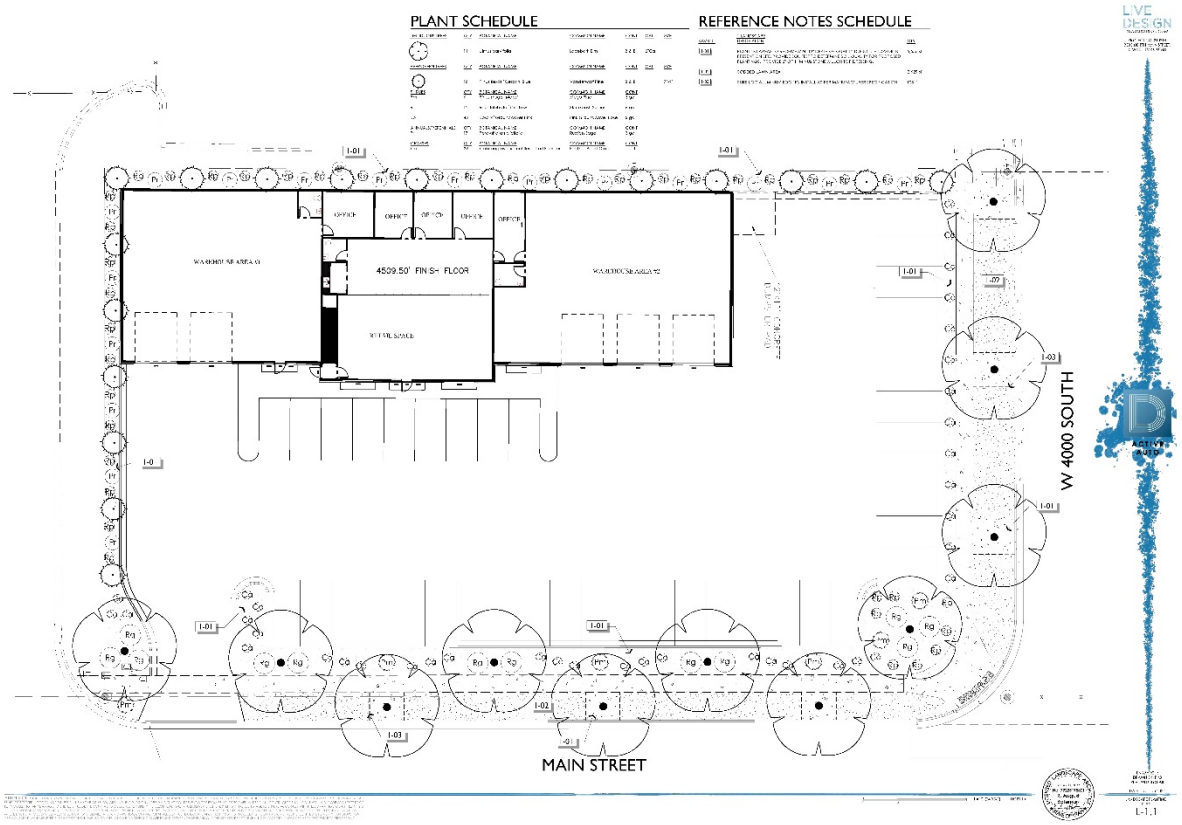
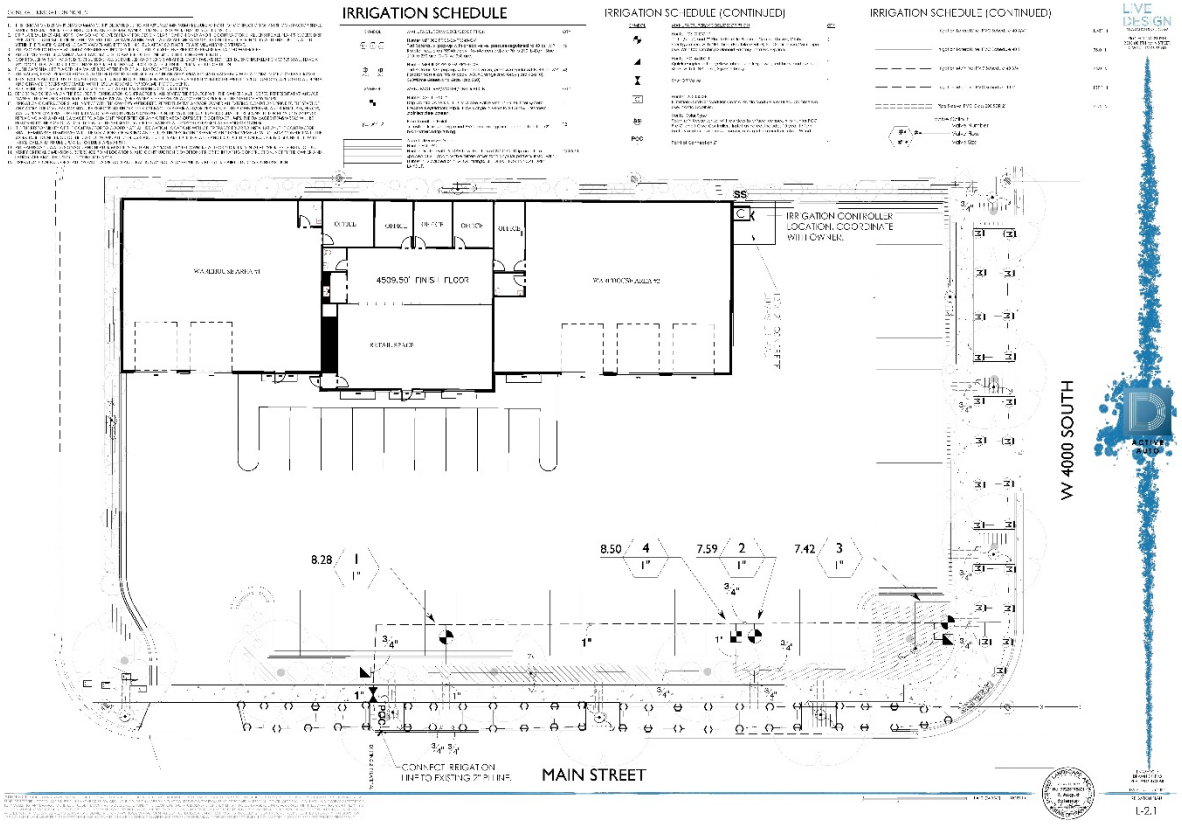
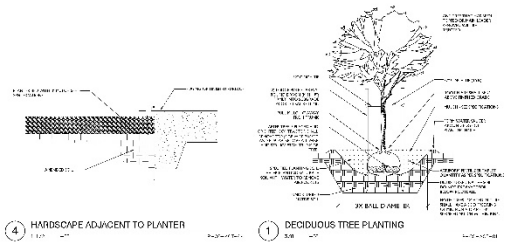

LUGIOW ENGINEERING & ASSOCIATES
BEST MANAGEMENT PRACTICES
ACTIVE AUTO

Exhibit 2


N
SCALE
1"=20'
5100 NORTH
MAIN STREET
LUDLOW ENGINEERING & ASSOCIATES
GRADING PLAN
ACTIVE AUTO

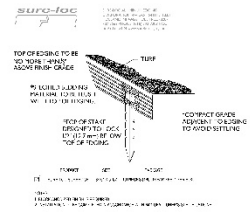

PLANT SCHEDULE
REFERENCE NOTES SCHEDULE
4509.50' FINISH FLOOR
W 4000 SOUTH
MAIN STREET
L-1.1


IRRIGATION SCHEDULE
IRRIGATION SCHEDULE (CONTINUED)
IRRIGATION SCHEDULE (CONTINUED)
4509.50' FINISH FLOOR
IRRIGATION CONTROLLER LOCATION. COORDINATE WITH OWNER.
W 4000 SOUTH
8.28
8.50
7.59
7.42
CONNECT IRRIGATION LINE TO EXISTING 2" P.I. LINE
MAIN STREET
L-2.1

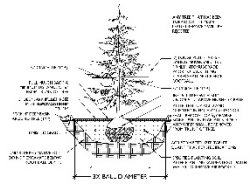


4 HARDSCAPE ADJACENT TO PLANTER

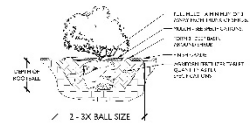
1 DECIDUOUS TREE PLANTING



5 SURE-LOC ALUMINUM EDGING



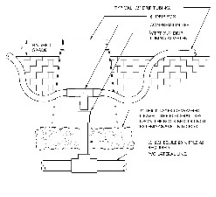
2 EVERGREEN TREE PLANTING



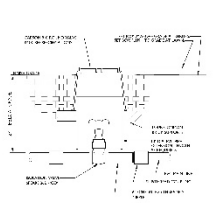
3 SHRUB PLANTING



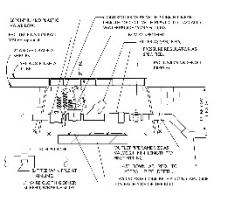
L-5.1



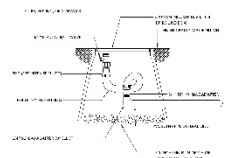
7 PIPE TRANSITION POINT



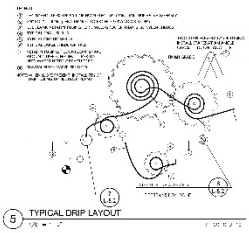
4 MANUAL ISOLATION VALVE



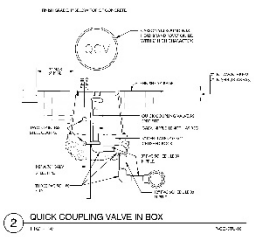
1 REMOTE CONTROL IRRIGATION VALVE - DRIP



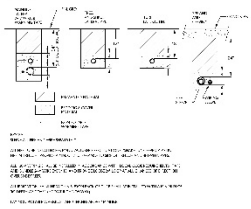
8 LATERAL FLUSH ASSEMBLY



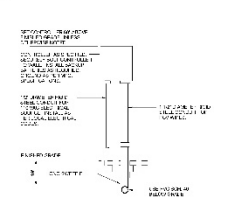
5 TYPICAL DRIP LAYOUT



2 QUICK COUPLING VALVE IN BOX



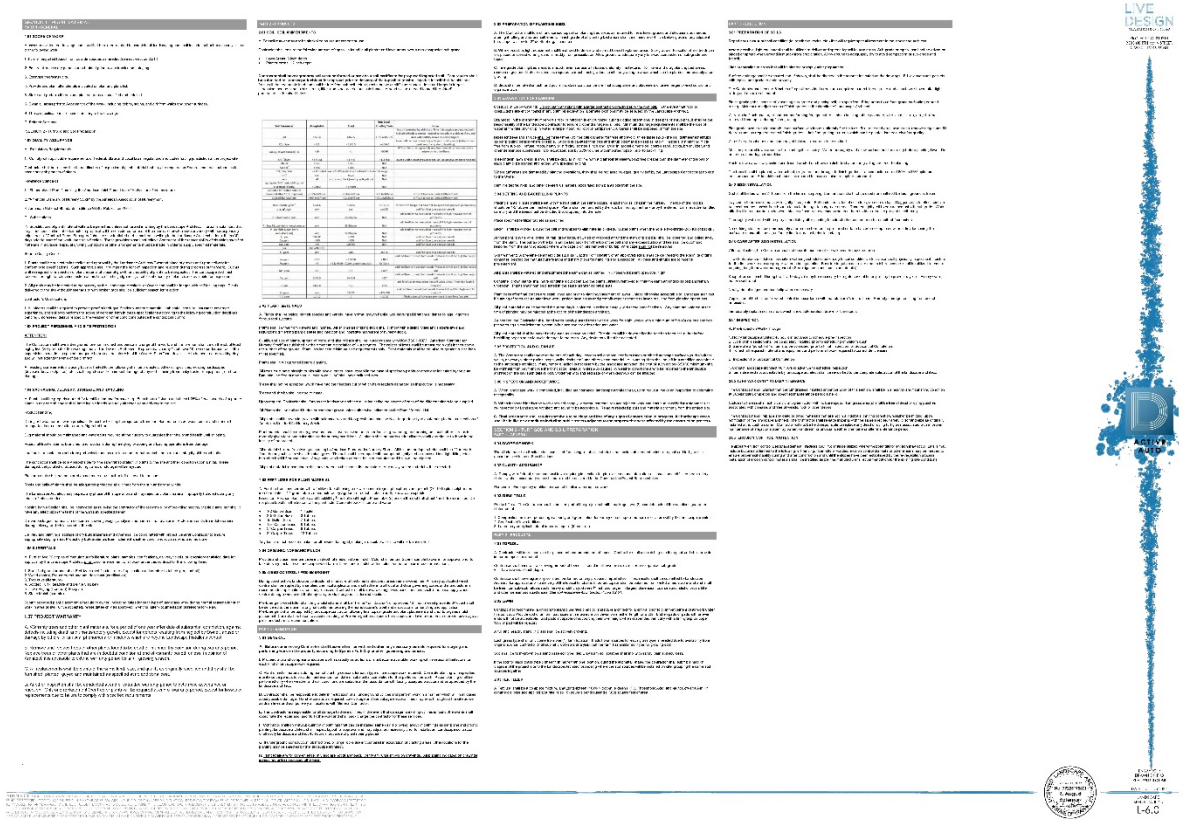
6 PIPE TRENCH LAYOUTS

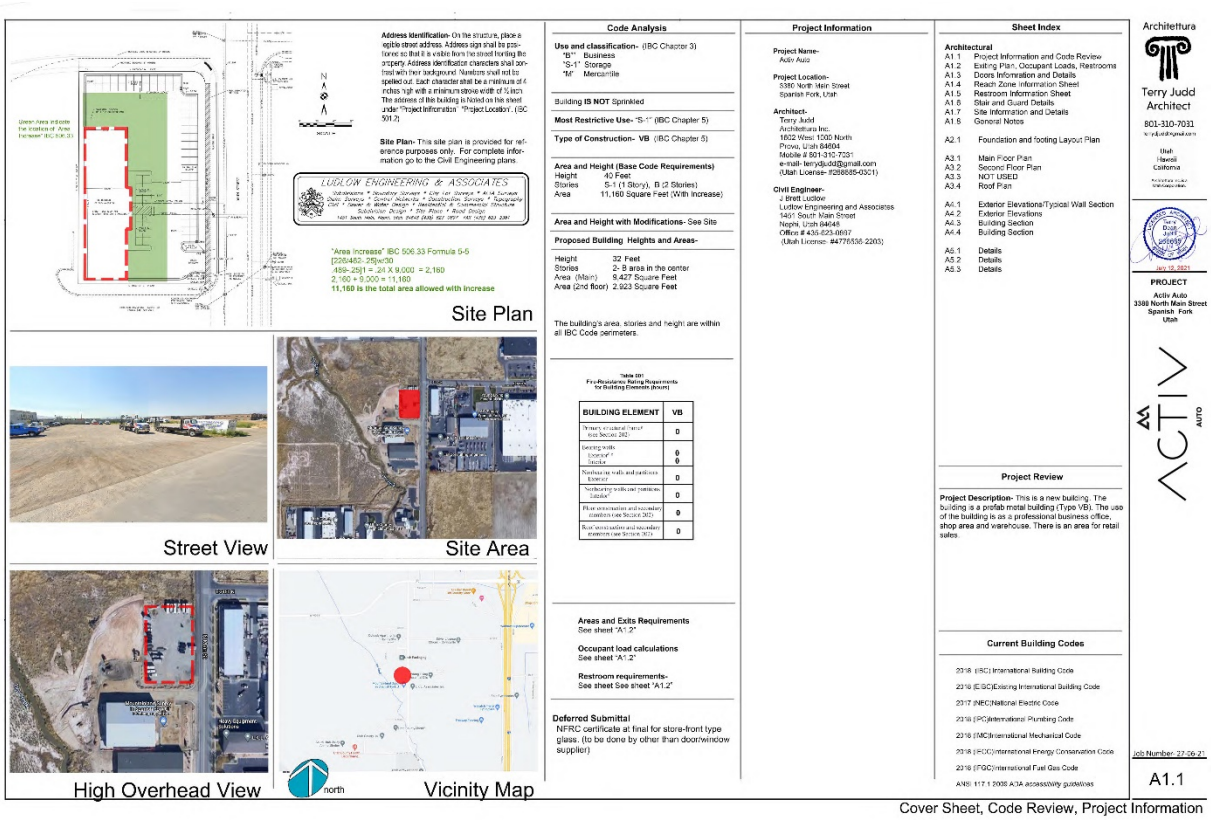


3 WALL MOUNT CONTROLLER

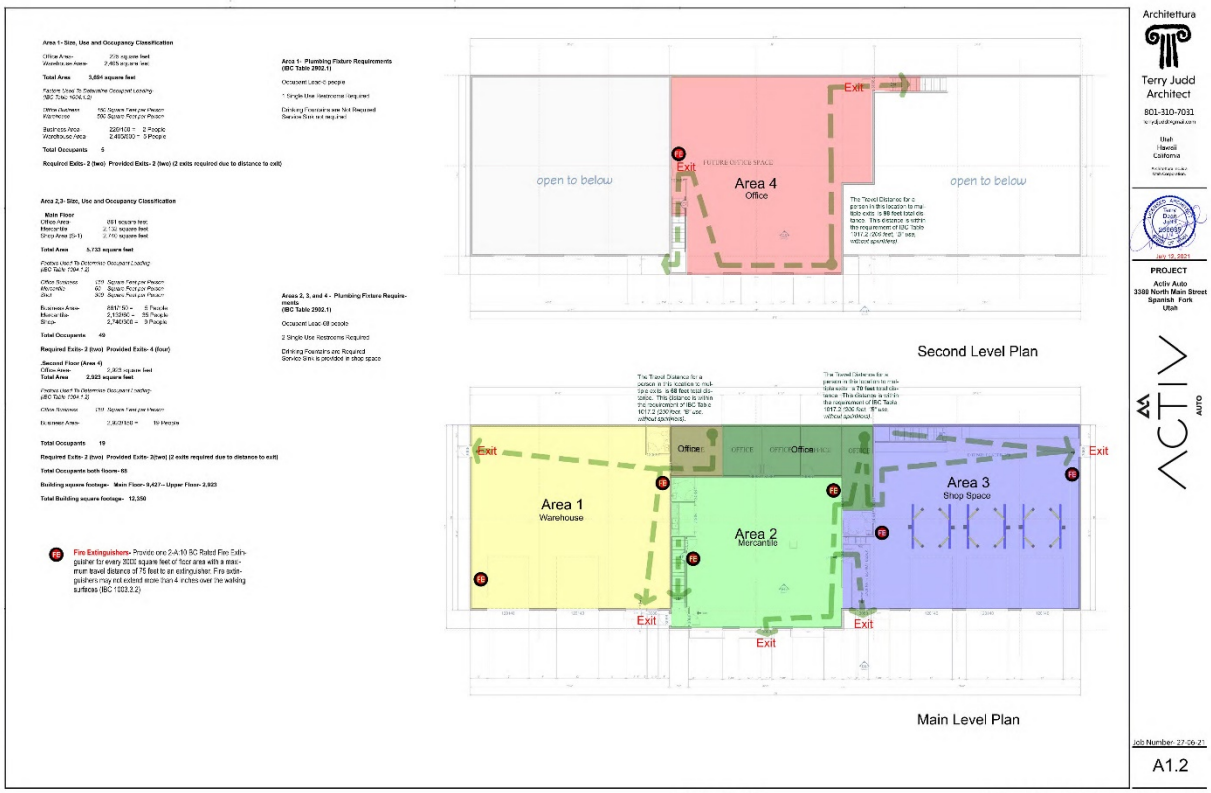


L-5.2



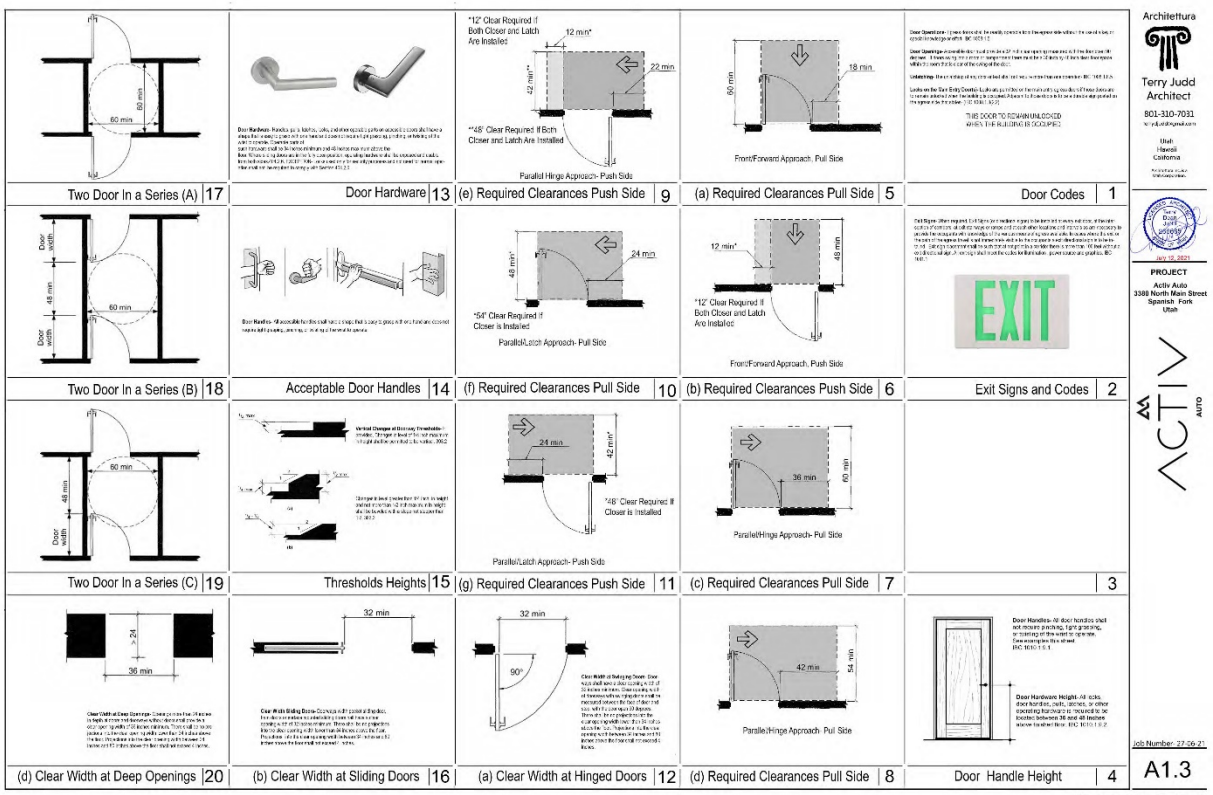


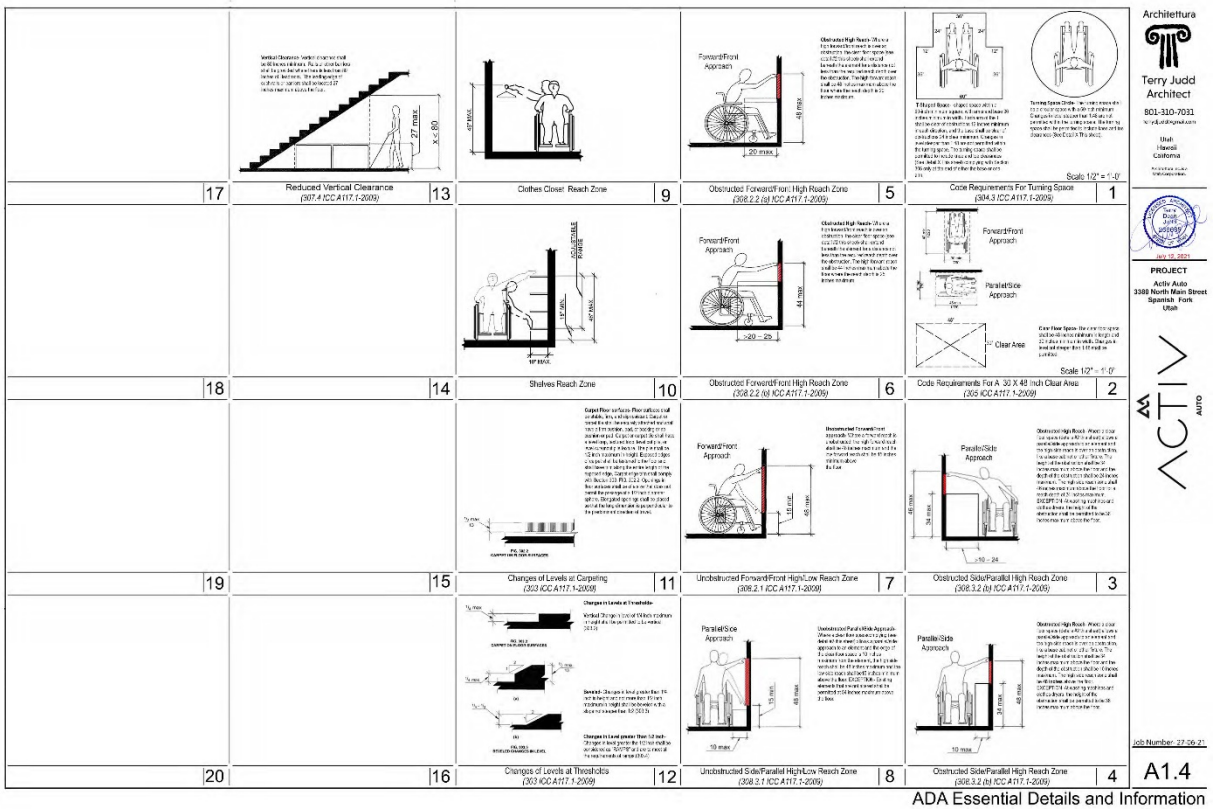
Cover Sheet, Code Review, Project Information

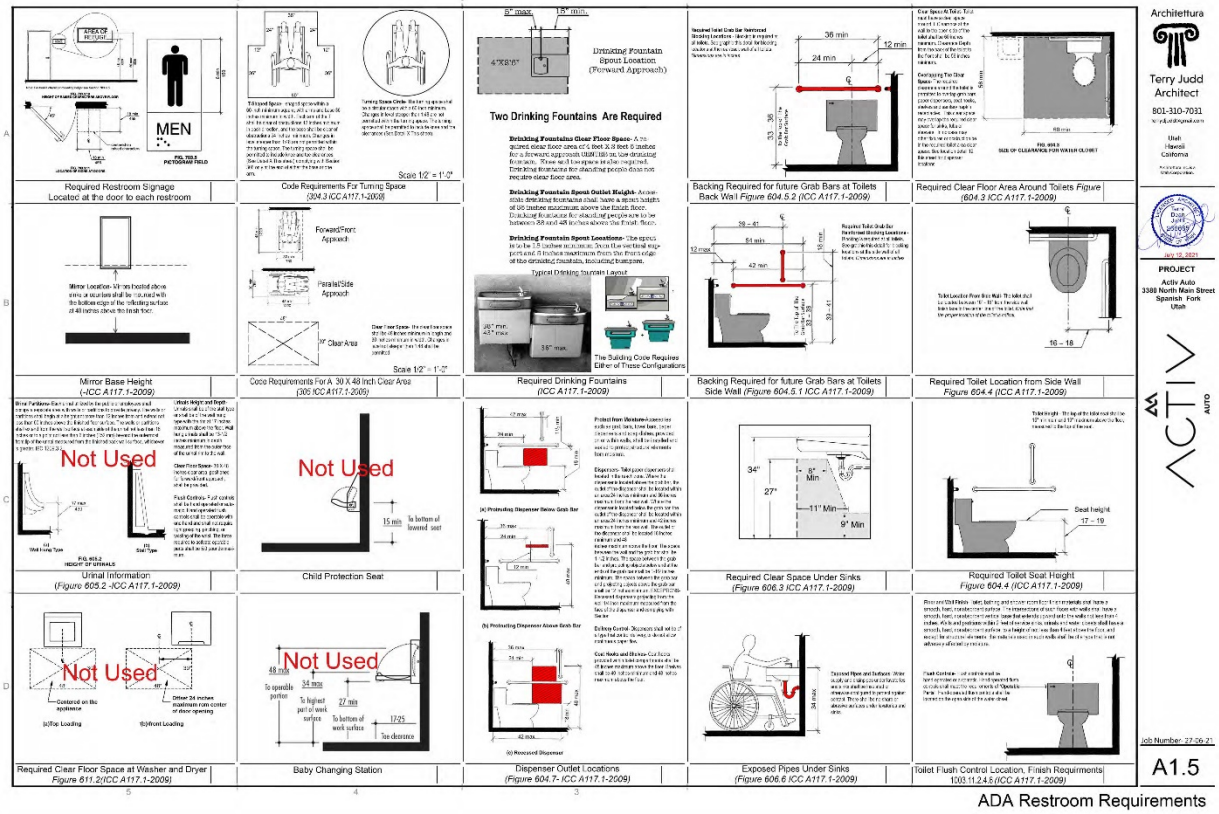


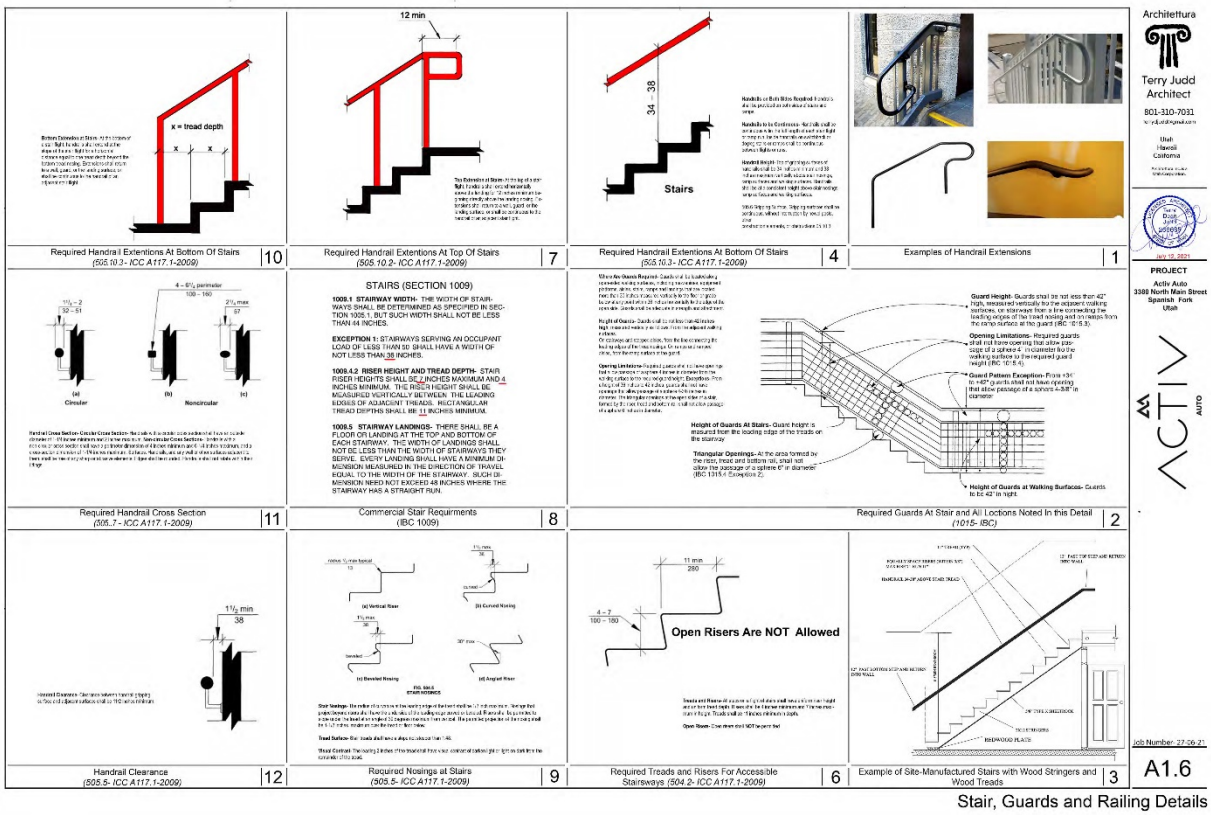
Scale 1"= 10'

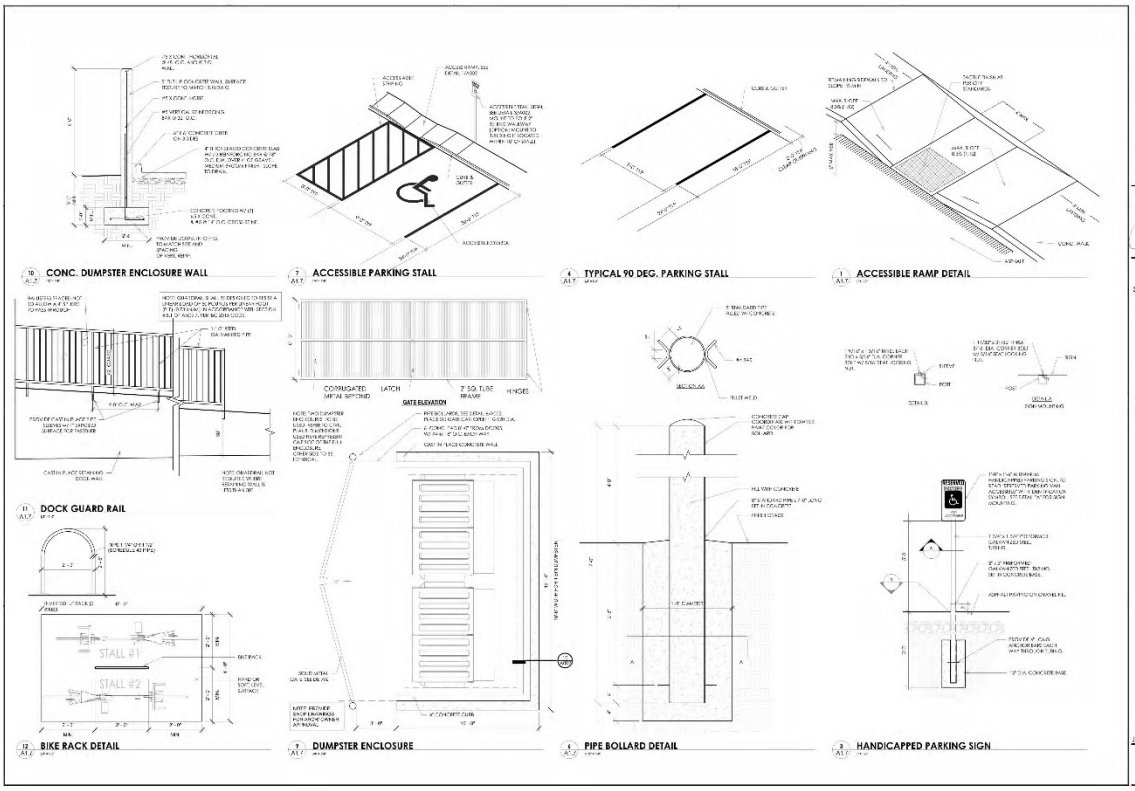
Exiting Plan and Occupant Loading


Two Door In a Series (A) 17
Door Hardware 13
(e) Required Clearances Push Side 9
(a) Required Clearances Pull Side 5
Door Codes 1
Two Door In a Series (B) 18
Acceptable Door Handles 14
(f) Required Clearances Pull Side 10
(b) Required Clearances Push Side 6
Exit Signs and Codes 2
Two Door In a Series (C) 19
Thresholds Heights 15
(g) Required Clearances Push Side 11
(c) Required Clearances Pull Side 7
3
(d) Clear Width at Deep Openings 20
(b) Clear Width at Sliding Doors 16
(a) Clear Width at Hinged Doors 12
(d) Required Clearances Pull Side 8
Door Handle Height 4
Architettura
Terry Judd Architect
801-310-7031
Utah
Hawaii
California
PROJECT
Activ Auto
3388 North Main Street
Spanish Fork
Utah
ACTIV AUTO
Job Number: 27-06-21
A1.3
Doors and Exiting


17
Reduced Vertical Clearance
(307.4 ICC A117.1-2009)
13
Clothes Closet Reach Zone
9
Obstructed Forward/Front High Reach Zone
(308.2.2 (a) ICC A117.1-2009)
5
Code Requirements For Turning Space
(304.3 ICC A117.1-2009)
1
18
14
Shelves Reach Zone
10
Obstructed Forward/Front High Reach Zone
(308.2.2 (a) ICC A117.1-2009)
6
Code Requirements For A 30 X 48 Inch Clear Area
(305 ICC A117.1-2009)
2
19
15
Changes of Levels at Carpeting
(303 ICC A117.1-2009)
11
Unobstructed Forward/Front High/Low Reach Zone
(308.2.1 ICC A117.1-2009)
7
Obstructed Side/Parallel High Reach Zone
(308.3.2 (b) ICC A117.1-2009)
3
20
16
Changes of Levels at Thresholds
(303 ICC A117.1-2009)
12
Unobstructed Side/Parallel High/Low Reach Zone
(308.2.1 ICC A117.1-2009)
8
Obstructed Side/Parallel High Reach Zone
(308.3.2 (b) ICC A117.1-2009)
4
Architettura
Terry Judd Architect
801-310-7031
Utah
Hawaii
California
PROJECT
Activ Auto
3388 North Main Street
Spanish Fork
Utah
ACTIV AUTO
Job Number: 27-06-21
A1.4
ADA Essential Details and Information


Required Restroom Signage Located at the door to each restroom
Code Requirements For Turning Space (304.3 ICC A117.1-2003)
Two Drinking Fountains Are Required
Drinking Fountain Spout Location (Forward Approach)
Backing Required for future Grab Bars at Toilets Back Wall Figure 604.5.2 (ICC A117.1-2009)
Required Clear Floor Area Around Toilets Figure (604.3 ICC A117.1-2009)
Mirror Base Height (-ICC A117.1-2009)
Code Requirements For A 30 X 48 Inch Clear Area (305 ICC A117.1-2009)
Required Drinking Fountains (ICC A117.1-2009)
Backing Required for future Grab Bars at Toilets Side Wall (Figure 604.5.1 ICC A117.1-2009)
Required Toilet Location from Side Wall Figure 604.4 (ICC A117.1-2009)
Urinal Information (Figure 605.2 -ICC A117.1-2009)
Child Protection Seat
Required Clear Space Under Sinks (Figure 606.3 ICC A117.1-2009)
Required Toilet Seat Height Figure 604.4 (ICC A117.1-2009)
Required Clear Floor Space at Washer and Dryer Figure 611.2(ICC A117.1-2009)
Baby Changing Station
Dispenser Outlet Locations (Figure 604.7- ICC A117.1-2009)
Exposed Pipes Under Sinks (Figure 606.6 ICC A117.1-2009)
Toilet Flush Control Location, Finish Requirments 1003.11.2.4.5 (ICC A117.1-2009)
Not Used
Architettura
Terry Judd Architect
801-310-7031
Utah Hawaii California
PROJECT
Activ Auto
3388 North Main Street Spanish Fork Utah
ACTIV AUTO
Job Number: 27-06-21
A1.5
ADA Restroom Requirements


Required Handrail Extentions At Bottom Of Stairs (505.10.3 - ICC A117.1-2009) 10
Required Handrail Extentions At Top Of Stairs (505.10.2- ICC A117.1-2009) 7
Required Handrail Extentions At Bottom Of Stairs (505.10.3- ICC A117.1-2009) 4
Examples of Handrail Extensions 1
Required Handrail Cross Section (505.7 - ICC A117.1-2009) 11
STAIRS (SECTION 1009)
Commercial Stair Requirments (IBC 1009) 8
Required Guards At Stair and All Loctions Noted In this Detail (1015- IBC) 2
Handrail Clearance (505.5- ICC A117.1-2009) 12
Required Nosings at Stairs (505.5- ICC A117.1-2009) 9
Required Treads and Risers For Accessible Stairways (504.2- ICC A117.1-2009) 6
Example of Site-Manufactured Stairs with Wood Stringers and Wood Treads 3
Open Risers Are NOT Allowed
Architettura
Terry Judd Architect
801-310-7031
Utah Hawaii California
PROJECT
Activ Auto
3388 North Main Street Spanish Fork Utah
ACTIV AUTO
Job Number: 27-06-21
A1.6
Stair, Guards and Railing Details



Architettura
Terry Judd Architect
801-310-7031
Utah Hawaii California

PROJECT
Activ Auto
3388 North Main Street
Spanish Fork
Utah

Job Number: 27-06-21
A1.7
Site Details

GENERAL NOTES:

1. VISIT SITE PRIOR TO BID. REPRESENTATIVE OF THE ENGINEER DO NOT CONSTITUTE APPROVAL OF THE WORK PERFORMED BY THE CONTRACTOR OR HIS SUBCONTRACTORS AND ANY ABSENCE FROM OR INSPECTION OF OBSERVING THE WORK PERFORMED.

2. CONTRACTOR SHALL NOTIFY ENGINEER / ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS IN WITH THE VARIOUS PARTS OF THE WORKING DRAWINGS AND FOR SPECIFICATIONS PRIOR TO STARTING ANY WORK. INCLUDED IN ALL CASES UNLESS OTHERWISE DIRECTED. THE MOST STRINGENT REQUIREMENTS SHALL GOVERN AND BE PERFORMED.

3. CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND ELEVATIONS, ETC., AT THE SITE, AND SHALL ACCEPT RESPONSIBILITY FOR ANY THEREFROM. DO NOT SCALE DRAWINGS.

4. SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER / ARCHITECT AND CORRECTED PRIOR TO FABRICATION OR DIRECTION FOR ANY PRE-FABRICATED OR MANUFACTURED DESIGNED COMPONENTS.

5. SITES, LOCATIONS, LOADS AND ANCHORAGE OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURERS SUPPLIERS PRIOR TO FABRICATION OR INSTALLATION OF SUPPORTING STRUCTURES.

6. TEMPORARY BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING WIND. SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE NECESSARY FOR SAFETY. EXECUTE ALL CUTTING, DRILLING AND FITTING REQUIRED FOR THE INSTALLATION OF THE WORK AND TOGETHER WITH THE PROPERLY OF THE CONSTRUCTION.

7. DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND / OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOAD.

8. CONTRACTOR AND ALL SUBCONTRACTORS SHALL PERFORM THEIR TASKS AND DUTIES IN A MANNER CONFORMING TO THE PROCEDURES AND REQUIREMENTS AS STATED IN THE 2012 INTERNATIONAL BUILDING CODE, IBC LATEST ACCEPTED CODE ADOPTED BY THE LOCAL BUILDING OFFICIALS AND LOCAL ORDINANCES.

9. ANY SPECIAL INSPECTION REQUIRED BY THE BUILDING OFFICIAL OR THE INTERNATIONAL BUILDING CODE ARE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID BY THE OWNER.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.

11. ALL PLUMBING WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE AND LOCAL ORDINANCES. ALL PLUMBING WORK AND FIXTURES MUST MEET THE APPROVAL OF THE OWNER, CONTRACTOR, ARCHITECT/ENGINEER, TENANT AND THE BUILDING OFFICIAL.

12. ALL HVAC WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE AND LOCAL ORDINANCES. HVAC WORK, DUCTS, AND CONTROLS MUST MEET THE APPROVAL OF THE OWNER, CONTRACTOR, ARCHITECT/ENGINEER, TENANT, AND THE BUILDING OFFICIAL.

13. CONSTRUCTION MUST BE IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE.

14. CONSTRUCTION MUST BE IN COMPLIANCE WITH THE CURRENT INTERNATIONAL FIRE CODE.

15. ALL ELECTRICAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NEC ELECTRICAL CODE AND LOCAL ORDINANCES. ALL MECHANICAL WORK, DUCTWORK, ETC., MUST MEET APPROVAL OF THE OWNER, CONTRACTOR, ARCHITECT / ENGINEER, TENANT AND BUILDING OFFICIAL.

16. ALL WORK MUST COMPLY WITH THE LATEST ADA REQUIREMENTS, NATIONAL AND LOCAL.

17. ALL WORK MUST MEET THE APPROVAL OF THE BUILDING OWNERS, THE TENANT, THE DESIGNER AND THE BUILDING AND ZONING DEPARTMENTS.

18. ALL FURNITURE, PLANTS, INTERIOR LEDGE RUBS / FILING CABINETS, APPLIANCES, OFFICE EQUIPMENT TO BE PURCHASED, INSTALLED AND PAID FOR BY THE TENANT.

19. ANY AND ALL CHANGES OR VARIATIONS FROM THE FOLLOWING MUST BE APPROVED IN WRITING PRIOR TO MAKING THEM.

20. DO NOT SCALE DRAWINGS. ARCHITECT SHALL NOT BE RESPONSIBLE OR DIALOGUING MAY OCCUR CALCULATIONS TAKEN FROM SCALE MEASUREMENTS. USE DIMENSIONS NOTED. DRAWINGS OF A ARCHITECTURAL STAMP EXCEPTIONS OVER DRAWINGS OF A SMALLER SCALE.

21. FIRE ASSEMBLIES SHALL BE CONTINUOUS BOTH HORIZONTALLY AND VERTICALLY AND SHALL BE TIGHT FROM WALL ASSEMBLY TO WALL ASSEMBLY, THIS CAUSE ALL PLUMBINGS.

GENERAL FRAMING NOTES:
1. ATTACH EACH END OF ROOF TRUSSES AND OTHER BEARING POINTS TO WALL DOUBLE TOP PLATE USING SIMPSON H2 SEISMIC/HURRICANE TIES AT 24" O.C., UNLESS NOTED OTHERWISE. TOE NAIL 2X SOLID BLOCKING BETWEEN EACH TRUSS TO TOP PLATE USING 8-16D NAILS, UNLESS SIMPSON CLIP IS OTHERWISE SPECIFIED.
2. OVERBUILD ROOF FRAMING TO BE 2" X 6" @ 24" O.C., SUPPORT EACH 2 X 6 TO THE TRUSSES BELOW WITH 2" X 4" VERT. SUPPORTS @ 4'-0" O.C.
3. USE (2) 2X10 DF-L FOR WINDOW AND DOOR HEADERS, UNO.
4. ROOF TRUSS ENGINEERING BY OTHERS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE MECHANICAL CONNECTORS CAPABLE OF WITHSTANDING THE LOADS SPECIFIED IN THE ROOF TRUSS NOTES REQUIRING A CONNECTOR.
5. PROVIDE FULL SHEATHING UNDER ALL OVER FRAMING.
6. LAY UP ROOF PLYWOOD WITH THE FACE GRAIN (STRENGTH AXIS) PERPENDICULAR TO SUPPORTS, USING A MINIMUM OF 5 PLY PLYWOOD, STAGGER JOINTS. ALL NAILING TO BE DONE WITH COMMON NAILS.
7. ALL WOOD BEAMS, JOISTS AND COLUMNS SHALL BE NO. 2 GRADE LUMBER OR BETTER. ALL GLUE LAMINATED TIMBER MEMBERS SHALL HAVE A MINIMUM BENDING STRESS OF 2,400 PSI.
8. BUILT UP BEAMS OF 2x MEMBERS 12" OR LESS IN DEPTH SHALL BE SPIKED TOGETHER WITH NOT LESS THAN TWO ROWS OF 16d SPIKES AT 12" CENTERS, STAGGERED, UNLESS NOTED OTHERWISE. MEMBERS WITH DEPTH LARGER THAN 12" SHALL BE CONNECTED TOGETHER WITH 1/2" DIAMETER BOLTS @ 24" O.C. STAGGERED. BOLTS SHALL BE PLACED 1/4 THE DEPTH OF THE MEMBER FORM THE TOP AND BOTTOM OF THE MEMBER.
9. ATTACH MULTIPLE POST MEMBERS TOGETHER W/(2) ROWS 16d NAILS @ 6" O.C.
10. ALL WOOD BEAMS AND HEADERS SHALL BEAR ON A MINIMUM OF (2) CRIPPLE STUDS AT EACH END UNLESS SHOWN OTHERWISE.
11. CLAD HOUSE WITH 7/16" PLYWOOD OR OSB SHEATHING COMPLYING WITH I.B.C. TABLE 2306.4.1 AND SECTION 2306.4.1. HOLD-DOWNS, WHEN REQUIRED, ARE TO BE LOCATED AT EACH END OF SHEAR PANEL AND INSTALLED ACCORDING TO MANUFACTURER'S PUBLISHED INSTRUCTIONS. Stud spacing is 16 inches on center.
12. MINIMUM NAILING REQUIREMENTS (SEE SHEAR WALL LEGEND FOR AREAS WITH GREATER REQUIREMENTS): ROOF: NAIL ALL PLYWOOD PANELS WITH 8d COMMON NAILS (10d NAILS FOR 19/32" & 5/8" THICK PLYWOOD OR OSB) @ 6" O.C. AT ALL SUPPORTED EDGES AND @ 12" O.C. AT ALL INTERMEDIATE SUPPORTS. USE (1) PLYCLIP BETWEEN EACH SUPPORT FOR SPANS 24 INCHES AND LESS AT ALL UNSUPPORTED PLYWOOD PANEL EDGES. STRENGTH AXIS PERPENDICULAR TO SUPPORTS. SPAN INDEX RATIO, UNLESS NOTED OTHERWISE: 24/16. PROVIDE FULL SHEATHING UNDER ALL OVER FRAMING. WALLS: NAIL ALL PLYWOOD PANELS WITH 8d COMMON NAILS @ 6" O.C. AT ALL SUPPORTED EDGES AND @ 12" O.C. AT ALL INTERMEDIATE SUPPOSITS. SOLID BLOCK ALL PANELS EDGES. SPAN INDEX RATIO, UNO, 24/0.
13. ALL FOOTINGS WERE DESIGNED ACCORDING TO THE MIN. 1500 PSF SOIL BEARING PRESSURE.
14. CEILING OF GARAGE NEEDS TO BE 5/8" SHEETROCK. SEE SECTION R302.6 IN THE INTERNATIONAL RESIDENTIAL CODE

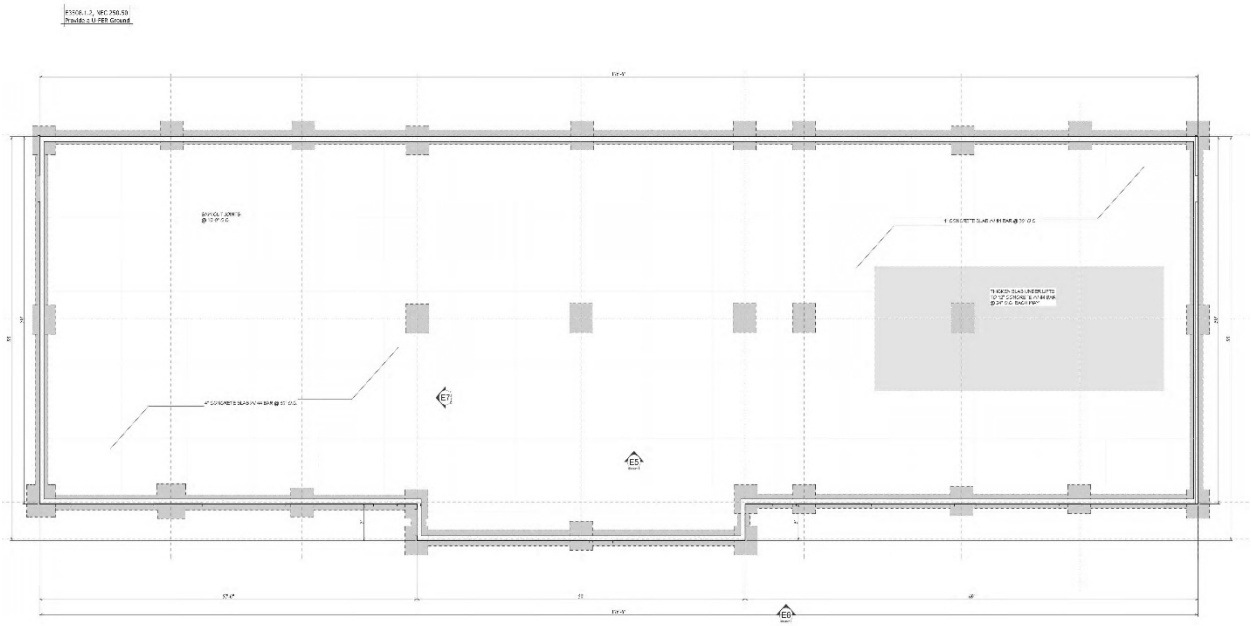
FOOTING AND FOUNDATION NOTES
1. SEE MAIN ROOF FRAMING PLAN SHEET FOR HOLD DOWN PLACEMENT.
2. CONCRETE: F'C=2,500 PSI FOOTINGS; 3,000 PSI FOUNDATION AND INTERIOR SLABS; AND
4,000 PSI FOR EXTERIOR SLABS. REINFORCEMENT: FY=60,000 PSI
3. FOOTINGS SHALL HAVE "J" BAR DOWELS SPACED TO MATCH VERTICAL WALL REINFORCEMENT. REINFORCEMENT SHALL BE 3" CLEAR FROM BOTTOM.
4. ALL OPENINGS TO BE REINFORCED WITH (2) #4 BARS SURROUNDING OPENING.
5. LINTELS ABOVE OPENINGS TO BE DESIGNED WITH #4 VERTICAL REINFORCEMENT @12" O.C.
AND (2) #4 HORIZONTAL REINFORCEMENT AT 10" O.C.
6. MINIMUM WALL REINFORCEMENT SHALL BE AS FOLLOWS:
(1) ONE WITHIN 4" OF THE TOP AND BOTTOM, THE OTHER EVENLY SPACED.
a. PLACE STEEL IN THE CENTER OF THE WALL AND EXTEND FROM THE FOOTING TO WITHIN THREE INCHES (76 MM) OF THE TOP OF THE WALL.
b. DOWELS OF #4 BARS TO MATCH VERTICAL STEEL PLACEMENT SHALL BE PROVIDED IN THE FOOTING, EXTENDING 24 INCHES INTO THE FOUNDATION WALL.
c. SOIL BACKFILL SHALL BE SOIL CLASSIFICATION TYPES GW, GP, SW, OR SP, PER TABLE 1610.1. SOIL SHALL NOT BE SUBMERGED OR SATURATED IN GROUNDWATER.
7. ATTACH SILL PLATE TO TOP OF FOUNDATION WALL USING 1/2" X 10" ANCHOR BOLTS AT 32" O.C. OR 5/8" X 10" AT 48" O.C. WITH STEEL PLATE WASHERS, A MINIMUM OF 0.229" X 3" X 3" IN SIZE, BETWEEN SILL PLATE AND NUT.

LEGEND

Architettura
Terry Judd Architect
801-310-7031
Utah Hawaii California

PROJECT
Activ Auto
3388 North Main Street
Spanish Fork
Utah

Job Number: 27-06-21
A1.8
General Notes



3/16" Scale 3/16" = 1'-0"

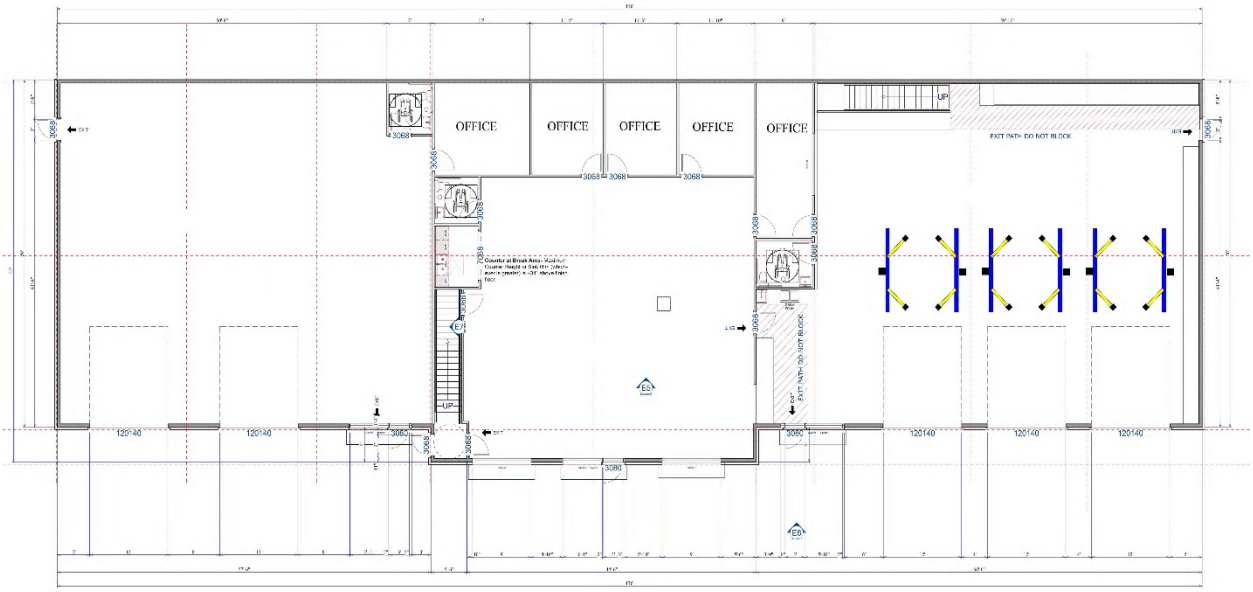
Architettura Inc.
Terry Judd 801-310-7031
Architect terryjudd@gmail.com

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A2.1

Foundation Layout Plan



3/16" Scale 3/16" = 1'-0"

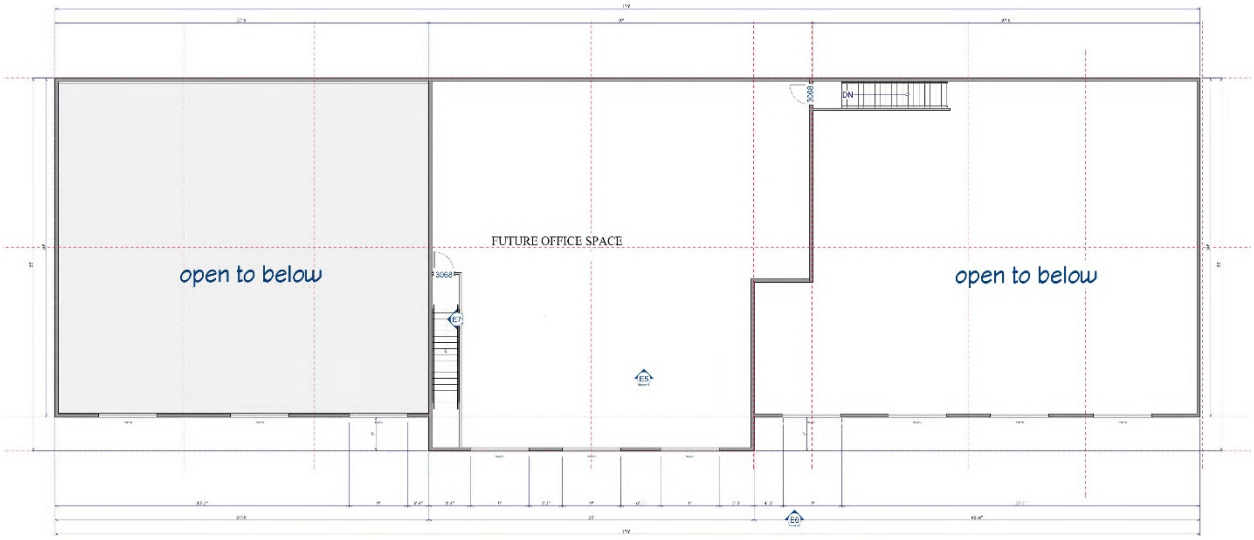
Architettura Inc.
Terry Judd 801-310-7031
Architect terryjudd@gmail.com

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A3.1

Main Floor Plan



3/16" Scale 3/16" = 1'-0"

Architettura Inc.
Terry Judd 801-310-7031
Architect terryjjudd@gmail.com

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A3.2

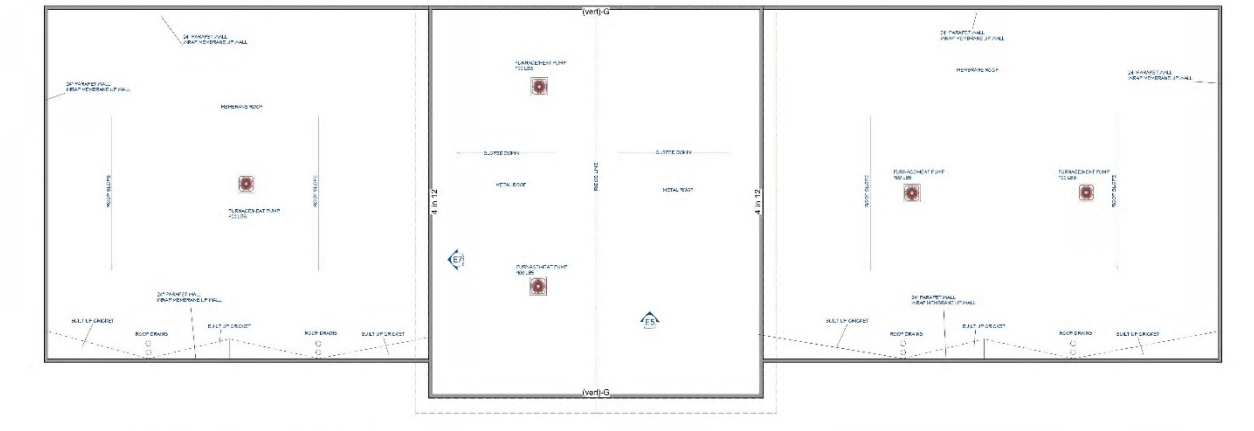
Second Floor Level

ROOFING NOTES (TYPICAL):

1. PROVIDE METAL WALL FLASHING WARRANTY OF MATERIALS AND 2 YEAR
2. ALL ROOFING MATERIALS AND ACCESSORIES MUST BE APPROVED BY OWNER AND ARCHITECT
3. PROVIDE PRODUCT SUBMITTALS FOR PRE-APPROVAL PRIOR TO ORDERING AND INSTALLATION.
4. FOR TYPICAL ROOFING ASSEMBLY DETAILS, SEE SHEET A5.0
5. PROVIDE STEP FLASHING (COUNTERFLASHING, CRIMPED AS REQ'D, CAULKED AND SEAL ROOFING TO SIDEWALLS MIN. 3" ABOVE ROOFING AND 6" WHERE DESIGNATED TYPICAL
6. ALL ROOFING MANUFACTURERS SECOND INSPECTIONS AND SPECIFICATIONS WHICH DOES TO ARCHITECT FOR WARRANTY. PROVIDE 1 AT PER ROOF MIN. SLOPE
7. FOR PLUMBING PENETRATIONS REFER TO DETAILS ON A5.0 AND PLUMBING DRAWINGS
8. FOR HVAC ROOF DETAILS SEE A5.0 AND A5.0
9. TYPICAL MIN SLOPE ROOF SLOPE IS 1/4" MIN. PER FOOT ALL PLACES.
10. SEE MECHANICAL PLAN FOR ROOF MOUNTED EQUIPMENT AND CURBS, ETC.
11. PROVIDE DRAINAGE OVERSIZED AROUND ALL MECHANICAL UNITS ON ROOF.

KEYNOTE LEGEND

05/019	METAL PARAPET CAP
07/001	COPPER COLORED STANDING SEAM METAL ROOF - PROVIDE SUBMITTAL FOR APPROVAL
07/002	45 MIL TPO REINFORCED ROOF OVER POLYISO INSULATION ON METAL DECK. PROVIDE BID ALTERNATE FOR 60 MIL TPO RHINOBOND SYSTEM. R-VALUE = R-25 - PROVIDE SUBMITTAL FOR APPROVAL
08/008	ROOF ACCESS HATCH. PROVIDE SUBMITTAL FOR APPROVAL
22/016	ROOF DRAIN. SEE SHEET A5.2



3/16" Scale 3/16" = 1'-0"

Architettura Inc.
Terry Judd 801-310-7031
Architect terryjjudd@gmail.com

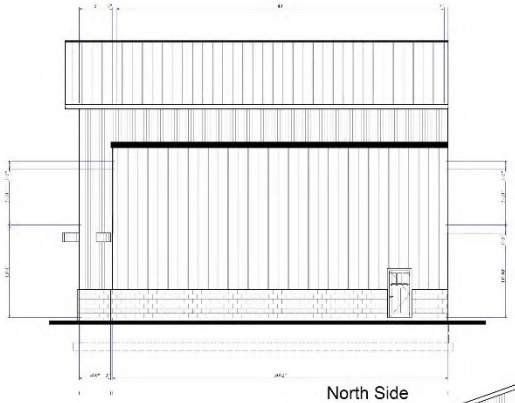
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A3.4

1/4" Scale 1/4" = 1'- 0"

Roof Layout Plan



North Side



East Side (Street Elevation)

3/16" Scale 3/16" = 1'-0"

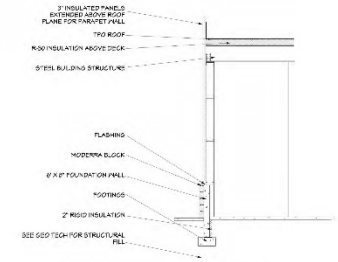
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Architect terryjudd@gmail.com

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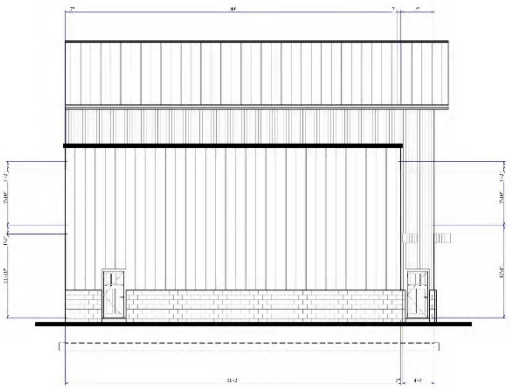
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A4.1

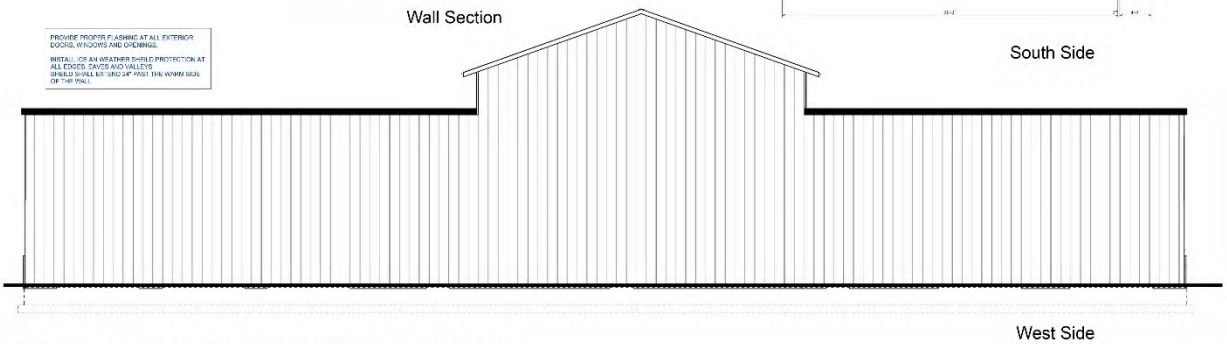
Exterior Elevations



Wall Section



South Side



West Side

3/16" Scale 3/16" = 1'-0"

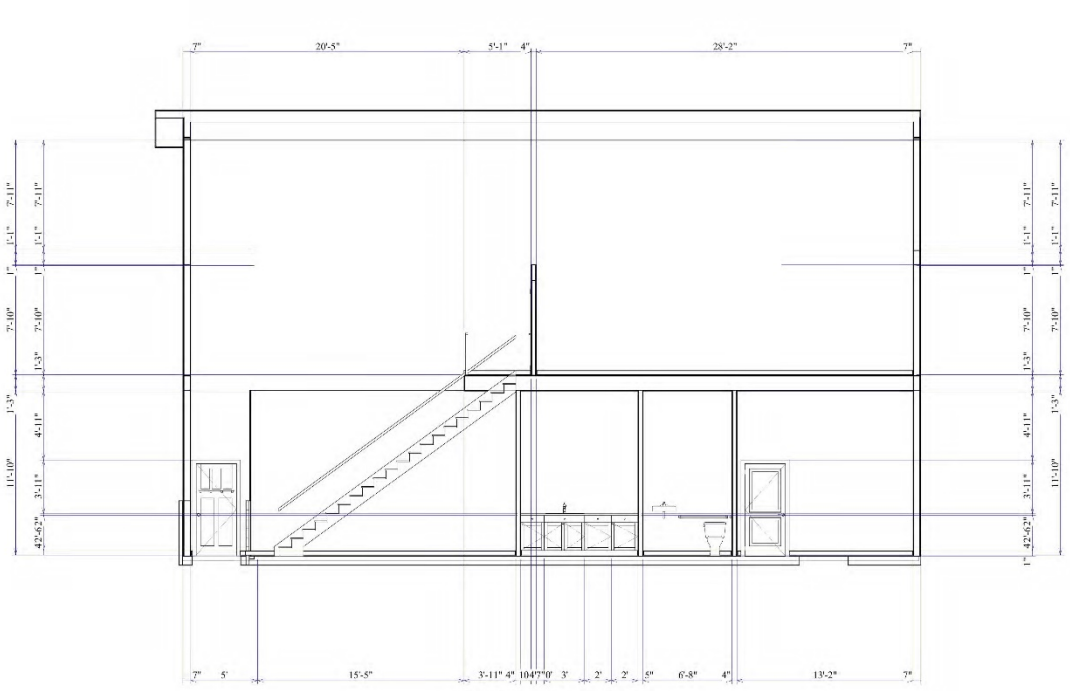
Architettura Inc.
Terry Judd 801-310-7031
Architect terryjudd@gmail.com

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A4.2

Exterior Elevations and Wall Section



SECTION DETAIL

3/16" Scale 3/16" = 1'-0"

Architettura Inc.
Terry Judd 801-310-7031
Architect terryjudd@gmail.com

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A4.3

Building Section and Details



SECTION DETAIL

3/16" Scale 3/16" = 1'-0"

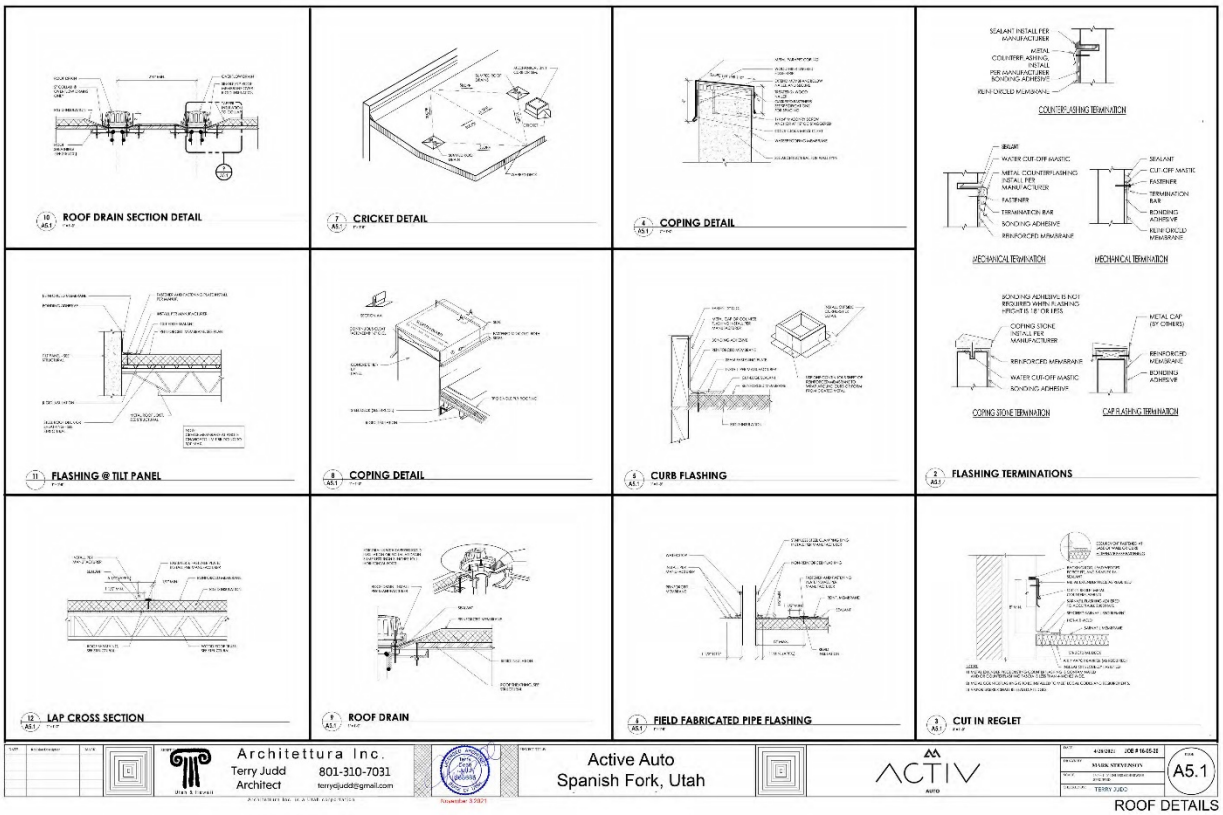
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Terry Judd 801-310-7031
Architect terryjudd@gmail.com

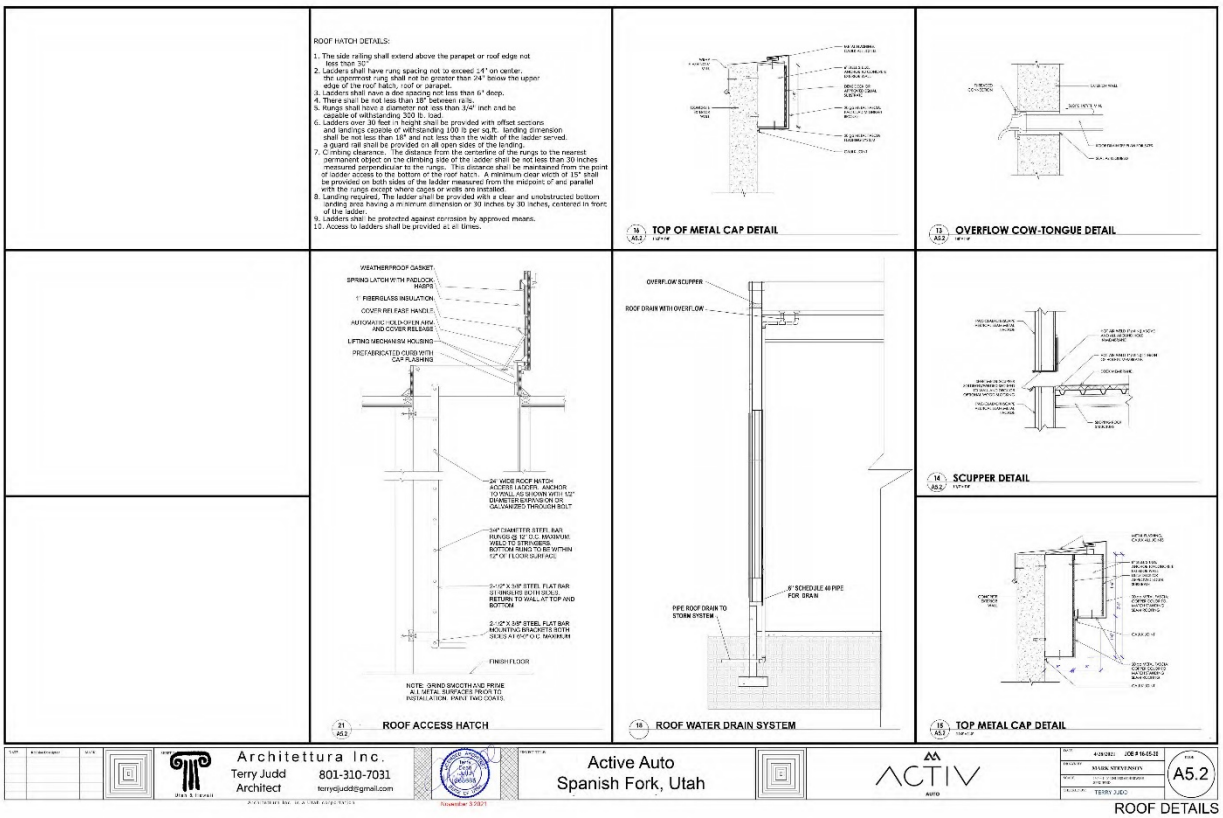
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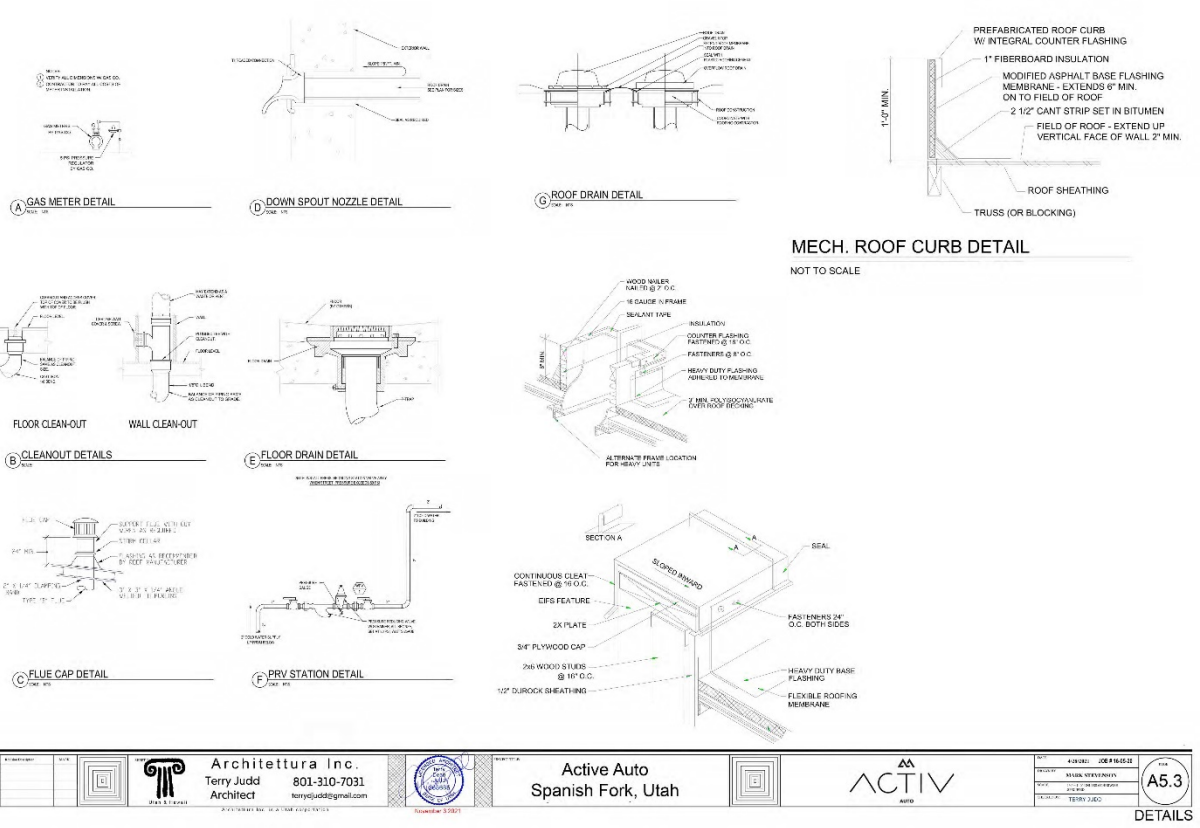
ACTIV AUTO

A4.4

Building Section and Details


10 ROOF DRAIN SECTION DETAIL
7 CRICKET DETAIL
4 COPING DETAIL
SEALANT INSTALL PER MANUFACTURER
METAL COUNTERFLASHING INSTALL PER MANUFACTURER BONDING ADHESIVE
KEMP CIRCLED MEMBRANE
COUNTERFLASHING TERMINATION
11 FLASHING @ TILT PANEL
8 COPING DETAIL
6 CURB FLASHING
BRIGHT
WATER CUT-OFF MASTIC
METAL COUNTERFLASHING INSTALL PER MANUFACTURER
FASTENER
TERMINATION BAR
BONDING ADHESIVE
REINFORCED MEMBRANE
SEALANT
CUT-OFF MASTIC
FASTENER
TERMINATION BAR
BONDING ADHESIVE
KEMP CIRCLED MEMBRANE
MECHANICAL TERMINATION
MECHANICAL TERMINATION
COPING STONE INSTALL PER MANUFACTURER
REINFORCED MEMBRANE
WATER CUT-OFF MASTIC
BONDING ADHESIVE
METAL CAP (BY OTHERS)
REINFORCED MEMBRANE
BONDING ADHESIVE
COPING STONE TERMINATION
CAP FLASHING TERMINATION
2 FLASHING TERMINATIONS
12 LAP CROSS SECTION
9 ROOF DRAIN
4 FIELD FABRICATED PIPE FLASHING
3 CUT IN REGLET
Architettura Inc.
Terry Judd
Architect
801-310-7031
terryjudd@gmail.com
Active Auto
Spanish Fork, Utah
ACTIV
A5.1
ROOF DETAILS


ROOF HATCH DETAILS:
1. The side railing shall extend above the parapet or roof edge not less than 30".
2. Ladders shall have rung spacing not to exceed 24" on center, the uppermost rung shall not be greater than 24" below the upper edge of the roof hatch, roof or parapet.
3. Ladders shall have a toe spacing not less than 6" deep.
4. There shall be not less than 18" between rails.
5. Rungs shall have a diameter not less than 3/4" inch and be capable of withstanding 300 lb. load.
6. Ladders over 30 feet in height shall be provided with offset sections and landings capable of withstanding 100 lb per sq.ft. landing dimension shall be not less than 18" and not less than the width of the ladder served. a guard rail shall be provided on all open sides of the landing.
7. C/ mbing clearance. The distance from the centerline of the rungs to the nearest permanent object on the climbing side of the ladder shall be not less than 30 inches measured perpendicular to the rungs. This distance shall be maintained from the point of ladder access to the bottom of the roof hatch. A minimum clear width of 15" shall be provided on both sides of the ladder measured from the midpoint of and parallel with the rungs except where cages or wells are installed.
8. Landing required. The ladder shall be provided with a clear and unobstructed bottom landing area having a minimum dimension of 30 inches by 30 inches, centered in front of the ladder.
9. Ladders shall be protected against corrosion by approved means.
10. Access to ladders shall be provided at all times.
16 TOP OF METAL CAP DETAIL
13 OVERFLOW COW-TONGUE DETAIL
WEATHERPROOF GASKET
SPRING LATCH WITH PADLOCK HASPS
1" FIBERGLASS INSULATION
COVER RELEASE HANDLE
AUTOMATIC HOLD-OPEN ARM AND COVER RELEASE
LIFTING MECHANISM HOUSING
PREFABRICATED CURB WITH CAP FLASHING
24" WIDE ROOF HATCH ACCESS LADDER. ANCHOR TO WALL AS SHOWN WITH 1/2" DIAMETER EXPANSION OR GALVANIZED THROUGH BOLT
3/4" DIAMETER STEEL BAR RUNGS @ 12" O.C. MAXIMUM. WELD TO STRINGERS. BOTTOM RUNG TO BE WITHIN 12"OF FLOOR SURFACE
2-1/2" X 3/8" STEEL FLAT BAR STRINGERS BOTH SIDES. RETURN TO WALL AT TOP AND BOTTOM
2-1/2" X 3/8" STEEL FLAT BAR MOUNTING BRACKETS BOTH SIDES AT 60" O.C. MAXIMUM
FINISH FLOOR
NOTE: GRIND SMOOTH AND PRIME ALL METAL SURFACES PRIOR TO INSTALLATION. PAINT TWO COATS.
21 ROOF ACCESS HATCH
OVERFLOW SCUPPER
ROOF DRAIN WITH OVERFLOW
6" SCHEDULE 40 PIPE FOR DRAIN
PIPE ROOF DRAIN TO STORM SYSTEM
18 ROOF WATER DRAIN SYSTEM
14 SCUPPER DETAIL
15 TOP METAL CAP DETAIL
Architettura Inc.
Terry Judd
Architect
801-310-7031
terryjudd@gmail.com
Active Auto
Spanish Fork, Utah
ACTIV
A5.2
ROOF DETAILS

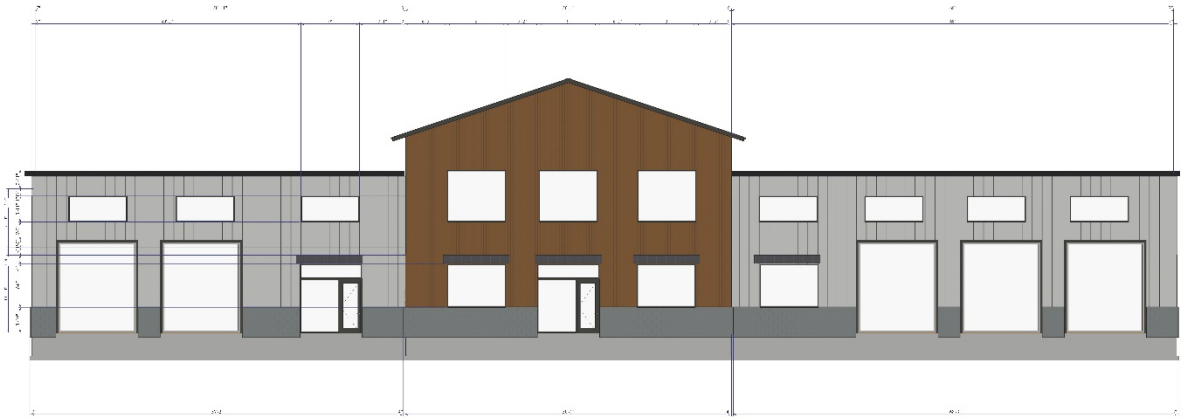


Architettura Inc.
Terry Judd
Architect
801-310-7031
terryjudd@gmail.com

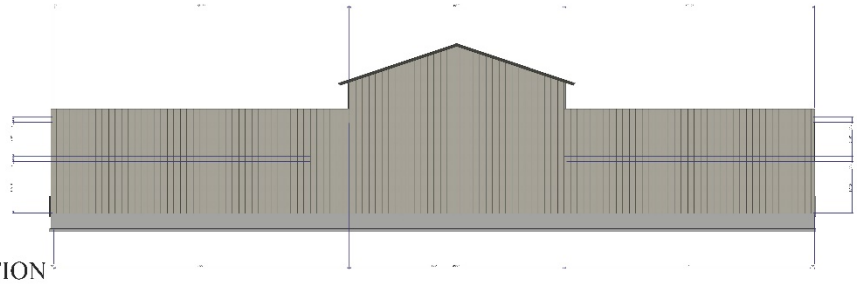
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A5.3
DETAILS



FRONT ELEVATION

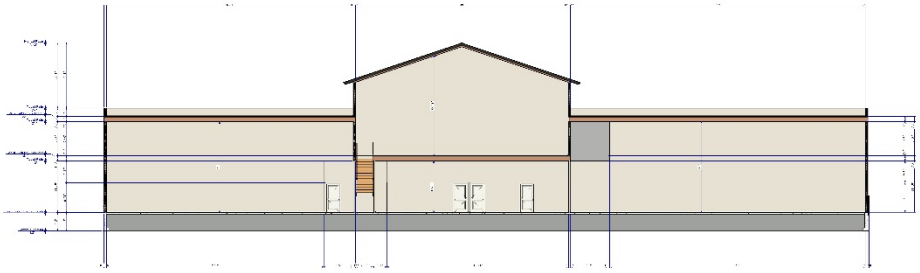


REAR ELEVATION

ELEVATIONS

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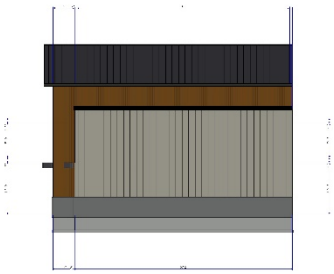
A1.4



SECTION DETAIL



LEFT ELEVATION



RIGHT ELEVATION

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A2.0

NOTE: THE CONTRACTOR SHALL CALL "BLUE STAKES" 1-800-662-4111 AT LEAST 48 HOURS IN ADVANCE OF EXCAVATING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION, AND RESTORATION OF ALL BURIED OR ABOVE GROUND UTILITIES, SHOWN OR NOT SHOWN ON THE PLANS.

ACTIVE AUTO

3381 NORTH MAIN STREET, SPANISH FORK, UT

SHEET #	SHEET NAME
1	COVER SHEET
2	SITE PLAN
3	GRADING AND DRAINAGE PLAN
4	DETAIL SHEET
5	DETAIL SHEET
6	SWPPP PLAN
7	BMP SHEETS

LEGEND

	PROPERTY LINE
	CENTERLINE
	PHASE LINE
EX.SS	EXISTING SEWER LINE W/MH
EX.SD	EXISTING SD LINE
EX.CUL	EXISTING CULINARY WATERLINE W/VALVE
EX.PI	EX. PRESSURIZED IRRIGATION W/VALVE
	EXISTING FIRE HYDRANT
	PROPOSED SEWER LINE
	PROPOSED STORM DRAIN LINE
	PROPOSED CULINARY WATERLINE
	PROPOSED FIRE HYDRANT
4592	EXISTING CONTOUR
4592	PROPOSED CONTOUR
	EXISTING CURB AND GUTTER
	PROPOSED CURB AND GUTTER
IE	INVERT ELEVATION
TBC	TOP BACK CURB
TOA	TOP OF ASPHALT
	CATCH BASIN
	FLOW DIRECTION FOR STORM WATER



VICINITY MAP
-NTS-

DATA TABLE:
TOTAL AREA=39,551 SF/0.91 ACRES
BUILDING AREA=9,000 SF/0.21 ACRES
LANDSCAPE AREA=8833 SF/0.20 ACRES (22%)
IMPERVIOUS AREA=21,719 SF/0.50 ACRES
BUILDING TYPE=METAL BUILDING
CONSTRUCTION TYPE=3
BUILDING HEIGHT=26.00' (1-LEVEL)
OCCUPANCY=B-S1
AUTOMATIC FIRE SPRINKLERS= NO

PARKING DATA:
AUTO SERVICE AREA = 5700 SF
1/200 = 29 STALLS
OFFICE AREA = 800 SF
1/300 = 3 STALLS
RETAIL SPACE = 1750
1/250 = 7 STALLS

TOTAL REQUIRED STALLS=29
TOTAL PROVIDED STALLS=39

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL EXISTING AND FINISH GRADES AND DIMENSIONS BEFORE STARTING CONSTRUCTION.
2. CONTRACTORS SHALL VERIFY LOCATION OF EXISTING UTILITIES BEFORE STARTING CONSTRUCTION.
3. CONTRACTOR SHALL FOLLOW PIPE MANUFACTURER'S SPECIFICATIONS FOR THE INSTALLATION OF ALL PIPES AND SPANISH FORK CITY PUBLIC UTILITIES STANDARDS.
4. SLOPE LANDINGS AT DOORWAYS 1/4" PER FOOT.
5. ALL SITE WORK INCLUDING CURBS, GUTTERS, SIDEWALKS, DRIVEWAY, PAVING, UTILITIES, SIGNS, ETC. SHALL CONFORM TO THE SPANISH FORK STANDARDS.
6. PROVIDE 4" DIA. PVC SLEEVES FOR IRRIGATION PIPING AS REQUIRED.
7. THE FINISH GROUND SURFACE SHALL BE GRADED TO DRAIN WATER AWAY FROM EACH WALL OF THE BUILDING.
8. PREVENT ALL STORM WATER FROM FLOWING ONTO ADJACENT PROPERTY.
9. VERTICAL SAWCUT EXISTING ASPHALT AND PROVIDE FOR A TWO FOOT WIDE PAVING REPLACEMENT PATCH.
10. PLACE THE WATER METER AS SHOWN ON PLANS.
11. MAINTAIN A TEN FOOT MINIMUM SEPARATION BETWEEN THE WATER AND SEWER LATERALS.
12. CONSTRUCTION OF BUILDING AND SITE PREPARATIONS SHALL CONFORM TO (STANDARD SPECIFICATIONS AND STANDARD PLANS)
13. OWNER SHALL MAINTAIN UNDEVELOPED PROPERTY (WEED FREE OR MOWED CONDITION).
14. CONTRACTOR SHALL CAP ALL EXISTING IMPROVEMENTS AND GET THE REQUIRED PERMITS FOR REMOVAL OF EXISTING STRUCTURES.
15. PARKING LOT REQUIREMENTS MUST FOLLOW SOILS REPORT.
16. SPANISH FORK CITY WILL NOT ASSUME ANY RESPONSIBILITY FOR MAINTENANCE OR REPAIR OF PRIVATE STORM DRAIN SYSTEM.
17. CLEAN-OUTS TO BE INSTALLED AT EVERY 50' ON SS LATERAL
18. DETAILED FIRE PROTECTION PLANS SHALL BE SUBMITTED WITH THE BUILDING PLANS. ADDITIONAL REQUIREMENTS MAY BE IDENTIFIED DURING THE PLAN REVIEW BY THE FIRE DEPARTMENT, WHICH MAY BE MANDATED BY THE INTERNATIONAL FIRE CODE. PLAN REVIEWS MUST BE COMPLETED PRIOR TO THE BUILDING PERMIT BEING ISSUED.
19. ALL LANDSCAPED AREAS SHALL HAVE AN AUTOMATIC, UNDERGROUND SPRINKLING SYSTEM WITH A BACKFLOW PREVENTION DEVICE AND A BACKFLOW PREVENTION DEVICE TO THE BUILDING.
20. WARNING – HIGH GROUND WATER TABLE. PROPERTY OWNER SHALL VERIFY PRESENCE AND DEPTH TO GROUNDWATER TABLE PRIOR TO CONSTRUCTION. GROUNDWATER TABLE MAY FLUCTUATE. OWNER HOLDS SPANISH FORK CITY HARMLESS FROM, AND ACCEPTS RESPONSIBILITY FOR, ANY DAMAGES OR INJURY RESULTING FROM GROUNDWATER IMPACTS.
21. ALL DRINKING WATER AND PRESSURIZED IRRIGATION LINES UP TO AND INCLUDING THE METER, ALL SANITARY SEWER MAINS, ALL ELECTRICAL METERS, AND ALL ELECTRIC AND sfcn COMMUNICATION SERVICE LINES UP TO THE MAST ON OVERHEAD INSTALLATIONS AND TO THE TOP OF THE METER BASE FOR UNDERGROUND INSTALLATIONS ARE DEDICATED TO SPANISH FORK CITY.

DEVELOPER/OWNER
DAVID GOODWIN
ACTIV AUTO
1092 S 350 E
PAYSON, UTAH

ENGINEER/SURVEYOR
LUDLOW ENGINEERING
1451 SOUTH MAIN STREET
NEPHI, UTAH
1-435-623-0897
brett_ludlow@hotmail.com

LICENSED PROFESSIONAL ENGINEER
J. BRETT LUDLOW
NO. 4776536-2203
Feb. 7, 2022
STATE OF UTAH

LUDLOW ENGINEERING
LAND SURVEYOR
1451 SOUTH MAIN STREET
NEPHI, UT 84648
PHONE: 435-623-0897
FAX: 435-623-2381
www.ludlowengineers.com

REVISIONS
1. 4.
2. 5.
3. 6.

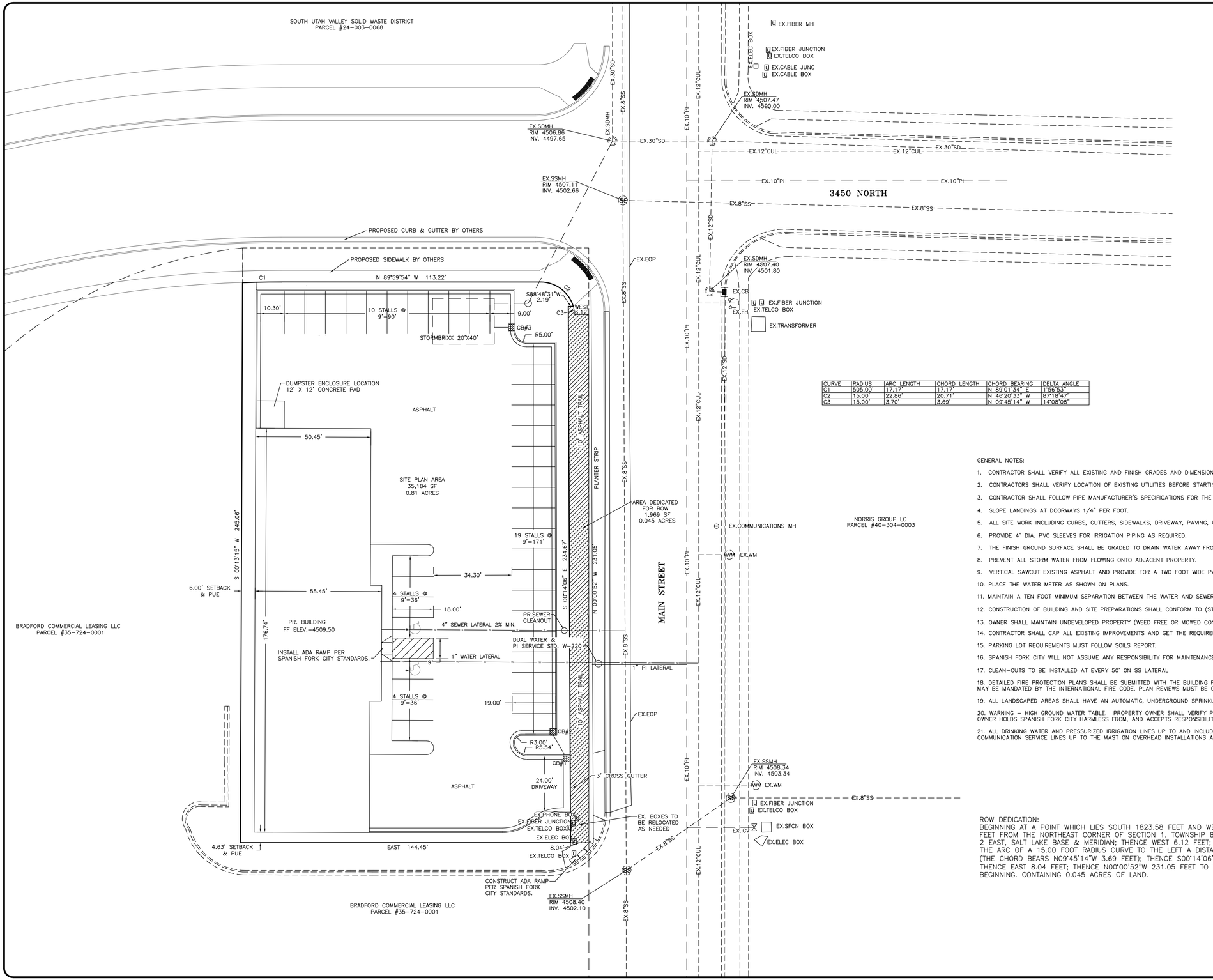
PROJECT NO.: LE 3857 SURVEYOR/DIRECTOR: D. PENROD
DATE: FEBRUARY 2022 FIELD SURVEYOR: M. JACOBSON
SCALE: N/A DRAWN: K. ROUNDY
REVISION: CHECKED: B. LUDLOW

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COVER SHEET

PROJECT FOR
ACTIVE AUTO
SECTION 1, T 8 S, R 2 E, SLB&M
SPANISH FORK CITY, UTAH COUNTY, UTAH
FEBRUARY 2022

SHEET 1 OF 7 SHEETS



CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	505.00'	17.17'	17.17'	N 89°01'54" E	1°56'53"
C2	15.00'	22.86'	20.71'	N 46°20'33" W	87°18'47"
C3	15.00'	3.70'	3.69'	N 09°45'14" W	14°08'08"

N

0' 20' 40' 60'

SCALE
1"=20'

DATA TABLE:
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ROW DEDICATION:
BEGINNING AT A POINT WHICH LIES SOUTH 1823.58 FEET AND WEST 553.00 FEET FROM THE NORTHEAST CORNER OF SECTION 1, TOWNSHIP 8 SOUTH, RANGE 2 EAST, SALT LAKE BASE & MERIDIAN; THENCE WEST 6.12 FEET; THENCE ALONG THE ARC OF A 15.00 FOOT RADIUS CURVE TO THE LEFT A DISTANCE OF 3.70, (THE CHORD BEARS N09°45'14"W 3.69 FEET); THENCE S00°14'06"E 234.65 FEET; THENCE EAST 8.04 FEET; THENCE N00°00'52"W 231.05 FEET TO THE POINT OF BEGINNING. CONTAINING 0.045 ACRES OF LAND.

REVISIONS
1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____

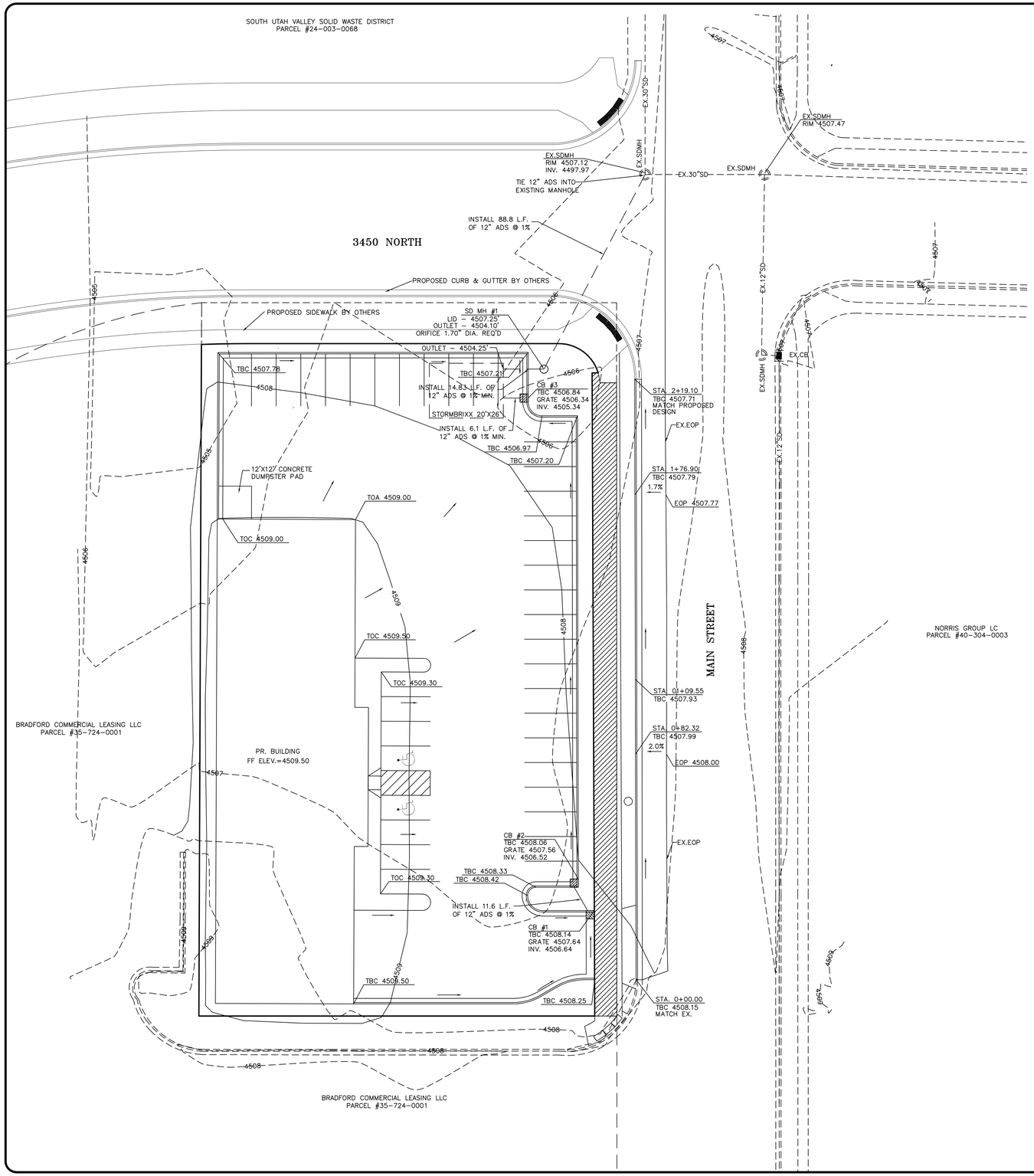
PROJECT NO.: LE 3857 SURVEYOR/DIRECTOR: D. PENROD
DATE: FEBRUARY 2022 FIELD SURVEYOR: M. JACOBSON
SCALE: 1" = 20' DRAWN: K. ROUNDY
REVISION: _____ CHECKED: B. LUDLOW

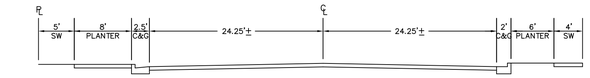
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SITE PLAN

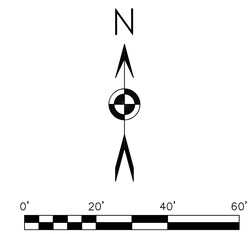
ACTIVE AUTO
SECTION 1, T 8 S, R 2 E, SLB&M
SPANISH FORK CITY, UTAH COUNTY, UTAH
FEBRUARY 2022

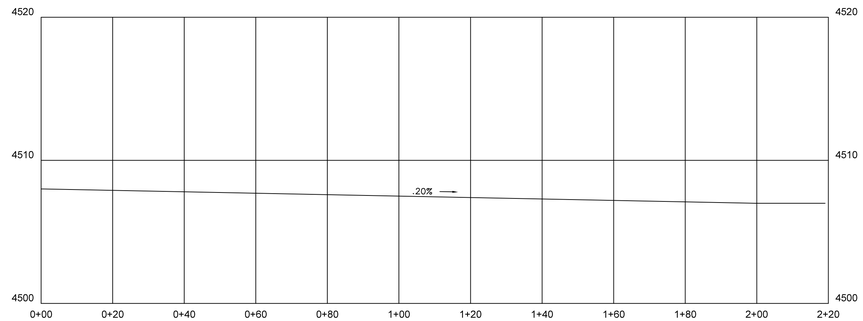
SHEET 2 OF 7 SHEETS



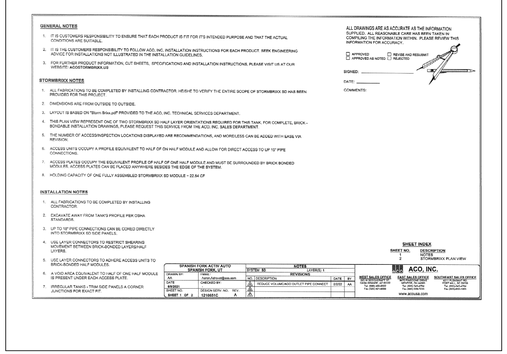


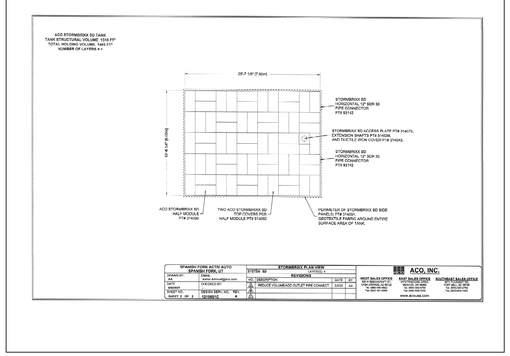
MAIN STREET-CROSS SECTION
-NTS-





MAIN STREET-PLAN & PROFILE





REVISIONS
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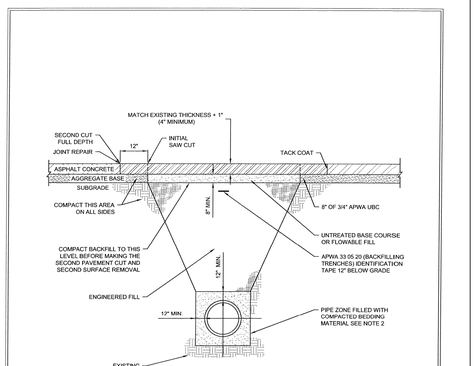
PROJECT NO.: LE 3857 SURVEYOR/DIRECTOR: D. PENROD
DATE: 2/7/2022 FIELD SURVEYOR: M. JACOBSON
SCALE: 1" = 20' DRAWN: K. ROUNDY
REVISION: CHECKED: B. LUDLOW

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GRADING PLAN

ACTIVE AUTO
SECTION 1, T 8 S, R 2 E, SLB&M
SPANISH FORK CITY, UTAH COUNTY, UTAH
2/7/2002

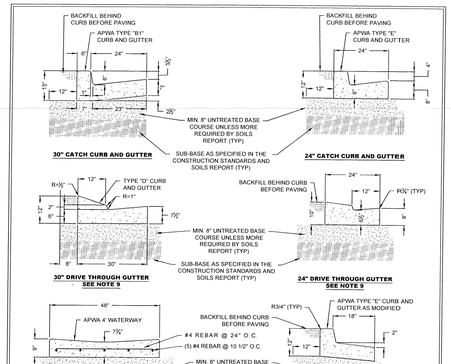
SHEET 3 OF 7 SHEETS



NOTES:

1. PAVEMENT CUTS SHALL BE A MINIMUM OF 3' X 3' AND ALSO BE MADE 12 INCHES OUTSIDE THE EDGE OF TRENCH FOR TRENCHES DEEPER THAN 4 FEET.
2. BEDDING MATERIAL SHALL EXTEND A MINIMUM OF 6" BELOW THE PIPE. BEDDING MATERIAL PER 39.35.040 B.
3. ASPHALT SHALL BE CUT TO THE SPECIFIED WIDTH DURING PIPELINE CONSTRUCTION AND SUBSURFACE RESTORATION. THE FINAL SAW-CUT SHALL BE AN ADDITIONAL 12" WIDER THAN THE EXISTING TRENCH ON EACH SIDE, REMOVING THE ASPHALT AND PROCEEDING WITH THE REMAINDER OF THE RESTORATION.
4. USE APWA NO. 4 SEWER ROCK FOR GRAVITY PIPE BEDDING MATERIAL. USE SAND AS A BEDDING MATERIAL FOR PRESSURE PIPE AND ELECTRICAL AND COMMUNICATION CONDUIT. BEDDING SAND MUST COMPACT SUFFICIENTLY TO SUPPORT THE PIPE AND SHALL MEET THE CITY'S GRADATION.

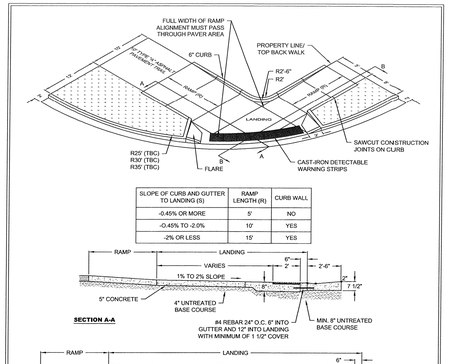
SPANISH FORK CITY ENGINEERING	STANDARD DRAWING	DRAWN: AJS	SCALE: NONE
40 SOUTH MAIN STREET, SPANISH FORK, UT 84660, (801) 804-4550	ASPHALT RESTORATION DEEP EXCAVATION & UTILITY POTHOLE REPAIR	DESIGN: MHC	STANDARD: G-101
		REVISION:	
		DATE: 10/05/2016	



NOTES:

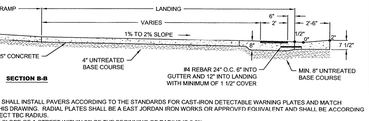
1. SUB-BASE UNDER ALL CURBS AND GUTTERS SHALL MATCH WHAT IS IN THE ROAD WITH A MINIMUM OF 8" OF COMPACTED UNTREATED BASE COURSE.
2. IF CONCRETE IS TO BE POURED NEXT TO A CURB #4 REBAR SHALL BE DOWELED 3' INTO CURB AND 4" INTO SIDEWALK. REBAR SHALL BE INSTALLED A MINIMUM OF 2" FROM TOP OF SIDEWALK AND CURB 24" O.C.
3. SIDEWALKS SHALL HAVE CONSTRUCTION JOINTS EVERY 5'.
4. TOP FRONT OF SIDEWALK SHALL BE PLACED AT THE SAME GRADE AS TOP BACK OF CURB.
5. TACK SHALL BE APPLIED TO LIP OF CURB AND EXTEND 1' ONTO GRAVEL ROAD BASE.
6. PAVERS, FABRIC, SAND MATERIAL AND INSTALLATION SHALL MEET THE SPECIFICATIONS AND REQUIREMENTS OF APWA 32 14 13 (PRECAST CONCRETE UNIT PAVING) AND 32 14 16 (BRICK UNIT PAVING).
7. ESTABLISH PAVER PATTERN TO ASSURE ALL CUT EDGE PAVERS SHALL BE HALF PAVERS OR LARGER.
8. ALL PAVERS SHALL MATCH THE ORIGINAL COLOR OF THE DARK RED CONCRETE PAVERS ON MAIN STREET
9. MODIFIED CURB & GUTTER IS ONLY TO BE USED IN THE RESIDENTIAL SUB LOCAL ROAD - 42' RIGHT OF WAY UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

SPANISH FORK CITY ENGINEERING	STANDARD DRAWING	DRAWN: AJS	SCALE: NONE
40 SOUTH MAIN STREET, SPANISH FORK, UT 84660, (801) 804-4550	CURB & GUTTERS	DESIGN: MHC	STANDARD: ST-612
		REVISION:	
		DATE: 10/05/2016	



SLOPE OF CURB AND GUTTER TO LANDING (S)	RAMP LENGTH (R)	CURB WALL
-0.45% OR MORE	5'	NO
-0.45% TO -2.0%	10'	YES
-2% OR LESS	15'	YES

SECTION A-A

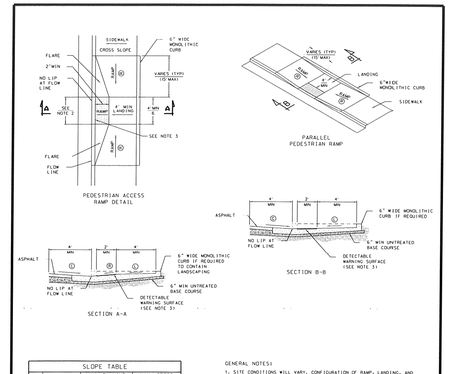


SECTION B-B

NOTES:

1. CONTRACTOR SHALL INSTALL PAVERS ACCORDING TO THE STANDARDS FOR CAST-IRON DETECTABLE WARNING PLATES AND MATCH PATTERN IN THIS DRAWING. RADIAL PLATES SHALL BE A EAST JORDAN IRON WORKS OR APPROVED EQUIVALENT AND SHALL BE ACCORDING TO THE CORRECT TBC RADIUS.
2. THE MAXIMUM SLOPE OF A STREET WITHIN 25' OF THE BEGINNING OF RADIUS IS 5.5%.
3. THE SLOPE OF THE FLOWLINE OF GUTTER THROUGH A PEDESTRIAN RAMP SHALL BE 2.0% OR LESS OR APPROVED BY CITY ENGINEER.
4. CURB AND GUTTER SLOPE (S) AND RAMP LENGTHS (R) SHALL BE CLEARLY LABELED AND DRAWN ON ALL PLANS. SEE TABLE FOR (R2) AND (R3).
5. RAMPS SHALL NOT EXCEED A 1:12 SLOPE.
6. STANDARD PEDESTRIAN RAMPS HAVE BEEN DESIGNED FOR NEW CONSTRUCTION. REPLACEMENT OF EXISTING PEDESTRIAN RAMPS SHALL BE DESIGNED AND STAMPED BY A PROFESSIONAL ENGINEER AND APPROVED BY THE CITY ENGINEER OR HISMER DESIGNEE.
7. POUR CONCRETE PEDESTRIAN RAMP BEFORE PAVING TRAIL.

SPANISH FORK CITY ENGINEERING	STANDARD DRAWING	DRAWN: AJS	SCALE: NONE
40 SOUTH MAIN STREET, SPANISH FORK, UT 84660, (801) 804-4550	CORNER PEDESTRIAN RAMP FOR SIDEWALKS CONNECTING TO TRAILS	DESIGN: MHC	STANDARD: ST-519
		REVISION:	
		DATE: 8/28/2018	



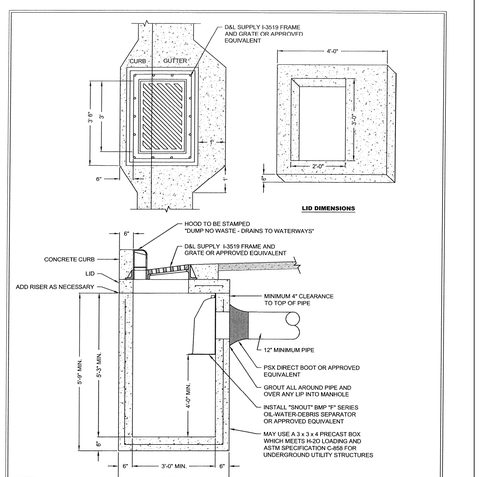
SLOPE TABLE		
ITEM	MAX. RUNNING SLOPE *	MAX. CROSS SLOPE *
① LANDING	2% (1V:49H) (1)	2% (1V:49H) (2)
② RAMP	8.33% (1V:12H) (1)	2% (1V:49H) (2)
③ CLEAR SPACE	5% (1V:20H) (3)	-
SIDEWALK	-	2% (1V:49H)
FLARE	12% (1V:12H)	-

* RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL. CROSS SLOPE IS PERPENDICULAR TO PEDESTRIAN TRAVEL.
(1) TRANSITION RUNNING SLOPE NEEDS TO BE 5% (1V:20H) OR LESS WHERE THE RAMP GUTTER PAN TO MEET REQUIRED TRANSITION SLOPE AT CURB CUT.
EXCEPTIONS:
(2) THESE REQUIREMENTS DO NOT APPLY AT MID-BLOCK CROSSINGS.
(3) PARALLEL RAMPS ARE NOT REQUIRED TO EXCEED 15-FEET IN LENGTH.
(4) CROSS SLOPE REQUIREMENT DOES NOT APPLY AT PERPENDICULAR RAMP MID-BLOCK CROSSING.

GENERAL NOTES:

1. SITE CONDITIONS WILL VARY. CONFIGURATION OF RAMP, LANDING, AND TRANSITION MAY BE CHANGED, BUT THEY MUST MEET DIMENSIONS AND SLOPES SHOWN HERE. THE USE OF FLARES, CURBWALLS, ETC. ARE AT THE DISCRETION OF THE ENGINEER.
2. PROVIDE DETECTABLE WARNING SURFACE FOR FULL WIDTH OF CURB CUT, SEE DETAIL ON STANDARD DRAWING 8 FOR TRUNCATED DOME DIMENSIONS.
3. LOCATE DETECTABLE WARNING SURFACE SO THE EDGE NEAREST THE STREET IS AT OR WITHIN 2" OF THE BACK OF CURB.
4. PARALLEL PEDESTRIAN RAMP SHOWN ON THIS DRAWING ARE ACCEPTABLE FOR USE AT MID-BLOCK OR CORNER INSTALLATIONS.
5. DETECTABLE WARNING SURFACE TO BE CAST IRON WITHIN ALL CITY RIGHT-OF-WAYS. OTHER ADA COMPLIANT INSERTS ARE ALLOWED IN PRIVATE DEVELOPMENTS ONLY. CONCRETE STAMPING IS NOT PERMITTED.
6. WHEN DETECTABLE WARNING SURFACE IS CUT, GRIND OFF REMAINING PORTION OF ANY CUT DOMES. SEAL ALL CUT PANEL EDGES TO PREVENT WATER DAMAGE.
7. LOCATE CURB CUT WITHIN CROSSWALK.
8. RAMP GRADE BREAK MUST BE PERPENDICULAR TO THE RUNNING SLOPE.

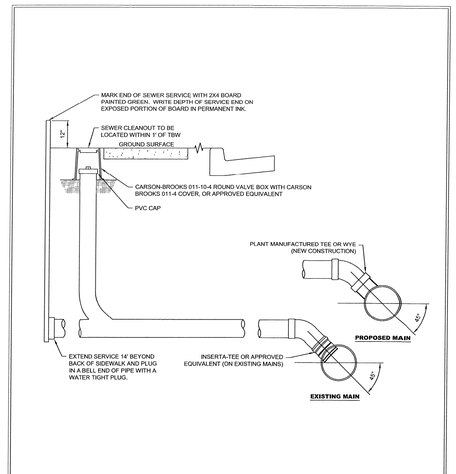
PEDESTRIAN RAMP DETAIL A.D.A. REQUIREMENT	
SPANISH FORK CITY 40 SOUTH MAIN STREET SPANISH FORK, UT 84660 (801) 804-4550	601



NOTES:

1. ALL STORM TRANSMISSION LINES SHALL RUN THROUGH STORM MANHOLES.
2. BOX SHALL BE SIZED ACCORDING TO TABLE ON STANDARD #32.
3. UNLESS OTHERWISE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER, #4 REBAR WILL BE SPACED AT MINIMUM OF 12" O.C. IN ALL DIRECTIONS IN CONCRETE, ALL REBAR SHALL OVERLAP A MINIMUM OF 14".
4. KNOCKOUT BOXES SHALL BE ALLOWED WITH CONCRETE COLLARS.

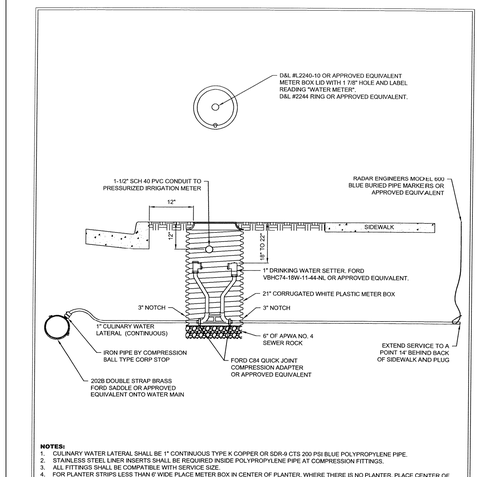
SPANISH FORK CITY ENGINEERING	STANDARD DRAWING	DRAWN: AJS	SCALE: NONE
40 SOUTH MAIN STREET, SPANISH FORK, UT 84660, (801) 804-4550	STORM WATER INLET BOX	DESIGN: MHC	STANDARD: SD-404
		REVISION:	
		DATE: 10/5/2016	



NOTES:

1. THE MINIMUM SLOPE IS 2% FOR A 4" LATERAL AND 1% FOR A 6" LATERAL.
2. SEWER LATERALS SHALL HAVE A MINIMUM OF 42" OF COVER FROM FINISH GRADE AT PROPERTY LINE AND 36" AT PLUG.
3. INSERTA-TEE MAY ONLY BE USED WHEN APPROVED BY CITY ENGINEER.

SPANISH FORK CITY ENGINEERING	STANDARD DRAWING	DRAWN: AJS	SCALE: NONE
40 SOUTH MAIN STREET, SPANISH FORK, UT 84660, (801) 804-4550	SEWER SERVICE	DESIGN: MHC	STANDARD: SS-305
		REVISION:	
		DATE: 10/6/2016	



NOTES:

1. CULINARY WATER LATERAL SHALL BE 1" CONTINUOUS TYPE K COPPER OR SDR-9 CTS 200 PSI BLUE POLYPROPYLENE PIPE.
2. STAINLESS STEEL LINER INSERTS SHALL BE REQUIRED INSIDE POLYPROPYLENE PIPE AT COMPRESSION FITTINGS.
3. ALL FITTINGS SHALL BE COMPATIBLE WITH SERVICE SIZE.
4. FOR PLANTER STRIPS LESS THAN 6' WIDE PLACE METER BOX IN CENTER OF PLANTER. WHERE THERE IS NO PLANTER, PLACE CENTER OF METER BOX 20" BEHIND SIDEWALK.
5. EXTEND 18 GAUGE WIRE 3' INTO METER BOX AND TAPE ENDS. BURY CONDUIT 12" BELOW GRADE.
6. WATER METERS LOCATED WITHIN THE DRIVEWAY SHALL HAVE A 48" PRECAST MANHOLE SECTION WITH D&L 1180 OR APPROVED EQUIVALENT MANHOLE FRAME AND LID THAT READS "WATER".
7. NON-TRAFFIC RATED METERS SHALL NOT BE LOCATED INLINE WITH DRIVEWAY OR GARAGE WITHOUT BEING APPROVED BY CITY ENGINEER OR HISHER DESIGNEE.

SPANISH FORK CITY ENGINEERING	STANDARD DRAWING	DRAWN: AJS	SCALE: NONE
40 SOUTH MAIN STREET, SPANISH FORK, UT 84660, (801) 804-4550	1" WATER SERVICE	DESIGN: MHC	STANDARD: W-213
		REVISION:	
		DATE: 10/5/2016	

REVISIONS

1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____

PROJECT NO.: LE 3857 SURVEYOR/DIRECTOR: D. PENROD
DATE: FEBRUARY 2022 FIELD SURVEYOR: M. JACOBSON
SCALE: N/A DRAWN: K. ROUNDY
REVISION: _____ CHECKED: B. LUDLOW

LUDLOW ENGINEERING & ASSOCIATES
Subdivisions * Boundary Surveys * City Lot Surveys * ALTA Surveys
Claim Surveys * Control Networks * Construction Surveys * Topography
Civil * Sewer & Water Design * Residential & Commercial Structure
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1451 South Main, Nephi, Utah 84648 (435) 623-0897 FAX (435) 623-2381

DETAIL SHEET

ACTIVE AUTO
SECTION 1, T 8 S, R 2 E, SLB&M.
SPANISH FORK CITY, UTAH COUNTY, UTAH
FEBRUARY 2022

SHEET 4 OF 7 SHEETS

GENERAL NOTES

1. IT IS CUSTOMERS RESPONSIBILITY TO ENSURE THAT EACH PRODUCT IS FIT FOR IT'S INTENDED PURPOSE AND THAT THE ACTUAL CONDITIONS ARE SUITABLE.
2. IT IS THE CUSTOMERS RESPONSIBILITY TO FOLLOW ACO, INC. INSTALLATION INSTRUCTIONS FOR EACH PRODUCT. SEEK ENGINEERING ADVICE FOR INSTALLATIONS NOT ILLUSTRATED IN THE INSTALLATION GUIDELINES.
3. FOR FURTHER PRODUCT INFORMATION, CUT SHEETS, SPECIFICATIONS AND INSTALLATION INSTRUCTIONS, PLEASE VISIT US AT OUR WEBSITE: **ACOSTORMBRIXX.US**

STORMBRIXX NOTES

1. ALL FABRICATIONS TO BE COMPLETED BY INSTALLING CONTRACTOR. HE/SHE TO VERIFY THE ENTIRE SCOPE OF STORMBRIXX SD HAS BEEN PROVIDED FOR THIS PROJECT.
2. DIMENSIONS ARE FROM OUTSIDE TO OUTSIDE.
3. LAYOUT IS BASED ON "Storm Brixx.pdf" PROVIDED TO THE ACO, INC. TECHNICAL SERVICES DEPARTMENT.
4. THIS PLAN VIEW REPRESENT ONE OF TWO STORMBRIXX SD HALF LAYER ORIENTATIONS REQUIRED FOR THIS TANK. FOR COMPLETE, BRICK-BONDABLE INSTALLATION DRAWINGS, PLEASE REQUEST THIS SERVICE FROM THE ACO, INC. SALES DEPARTMENT.
5. THE NUMBER OF ACCESS/INSPECTION LOCATIONS DISPLAYED ARE RECOMMENDATIONS, AND MORE/LESS CAN BE ADDED WITH EASE VIA REVISION.
6. ACCESS UNITS OCCUPY A PROFILE EQUIVALENT TO HALF OF ON HALF MODULE AND ALLOW FOR DIRECT ACCESS TO UP 15" PIPE CONNECTIONS.
7. ACCESS PLATES OCCUPY THE EQUIVALENT PROFILE OF HALF OF ONE HALF MODULE AND MUST BE SURROUNDED BY BRICK BONDED MODULES. ACCESS PLATES CAN BE PLACED ANYWHERE BESIDES THE EDGE OF THE SYSTEM.
8. HOLDING CAPACITY OF ONE FULLY ASSEMBLED STORMBRIXX SD MODULE = 22.54 CF

INSTALLATION NOTES

1. ALL FABRICATIONS TO BE COMPLETED BY INSTALLING CONTRACTOR.
2. EXCAVATE AWAY FROM TANK'S PROFILE PER OSHA STANDARDS.
3. UP TO 15" PIPE CONNECTIONS CAN BE CORED DIRECTLY INTO STORMBRIXX SD SIDE PANELS.
4. USE LAYER CONNECTORS TO RESTRICT SHEARING MOVEMENT BETWEEN BRICK-BONDED LAYERS/HALF LAYERS.
5. USE LAYER CONNECTORS TO ADHERE ACCESS UNITS TO BRICK-BONDED HALF MODULES.
6. A VOID AREA EQUIVALENT TO HALF OF ONE HALF MODULE IS PRESENT UNDER EACH ACCESS PLATE.
7. IRREGULAR TANKS - TRIM SIDE PANELS A CORNER JUNCTIONS FOR EXACT FIT.

ALL DRAWINGS ARE AS ACCURATE AS THE INFORMATION SUPPLIED. ALL REASONABLE CARE HAS BEEN TAKEN IN COMPILING THE INFORMATION WITHIN. PLEASE REVIEW THIS INFORMATION FOR ACCURACY.

☐ APPROVED ☐ REVISE AND RESUBMIT
☐ APPROVED AS NOTED ☐ REJECTED

SIGNED: _____

DATE: _____

COMMENTS:

SHEET INDEX

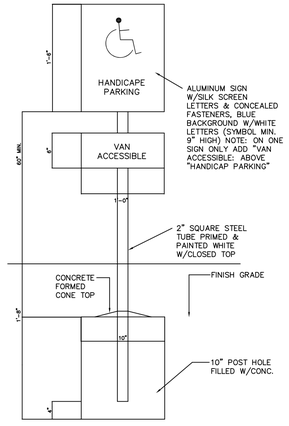
SHEET NO.	DESCRIPTION
1	NOTES
2	STORMBRIXX PLAN VIEW

SPANISH FORK ACTIV AUTO SPANISH FORK, UT		NOTES SYSTEM: SD LAYER(S): 1			
DRAWN BY: AA	EMAIL: Aaron.Ashcraft@aco.com	REVISIONS			
DATE: 8/9/2021	CHECKED BY:	NO.	DESCRIPTION	DATE	BY
SHEET NO: SHEET 1 OF 2	DESIGN SERV. NO.: 12106510 REV.: A	1	REDUCE VOLUME/ADD OUTLET PIPE CONNECT	2/2/22	AA
		2			
		3			

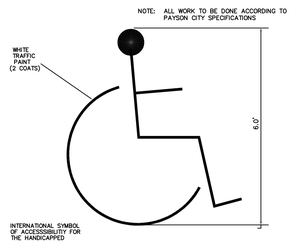
ACO, INC.

WEST SALES OFFICE	EAST SALES OFFICE	SOUTHEAST SALES OFFICE
1004 W WATERLOO RD STOCKTON, CA 95205 Tel: (888) 440-0640 Fax (925) 421-6868	1 HAMPSHIRE DRIVE HUDSON, NH 03051 Tel: (603) 943-9780 Fax (440) 639-7235	4241 ALLENDALE RD PORT WENTWORTH, GA 31407 Tel: (800) 240-4544 Fax (800)-602-1063

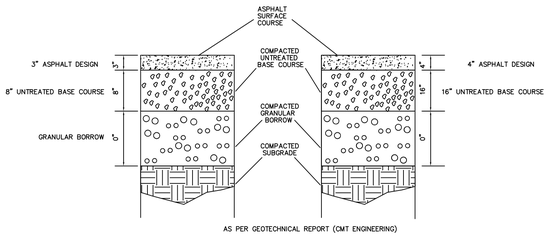
www.acousa.com



HANDICAP ACCESS



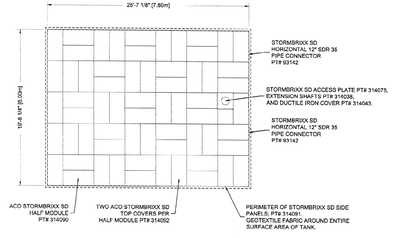
HANDICAP



TYPE 'A' PARKING PAVEMENT SECTION

TYPE 'B' DRIVEWAY AREA

ACO STORMBRIXX SD TANK
TANK STRUCTURAL VOLUME: 1510 FT³
TOTAL HOLDING VOLUME: 1465 FT³
NUMBER OF LAYERS = 1

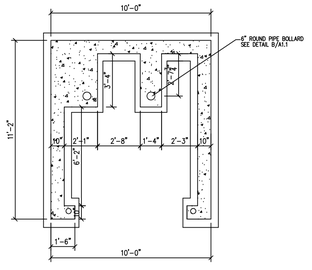


SPANISH FORK ACTIV AUTO SPANISH FORK, UT		STORMBRIXX PLAN VIEW SYSTEM: SD LAYER(S): 1			
DRAWN BY: AA	EMAIL: Aaron.Ashcraft@aco.com	REVISIONS			
DATE: 8/9/2021	CHECKED BY:	NO.	DESCRIPTION	DATE	BY
SHEET NO: SHEET 2 OF 2	DESIGN SERV. NO.: 12106510 REV.: A	1	REDUCE VOLUME/ADD OUTLET PIPE CONNECT	2/2/22	AA
		2			
		3			

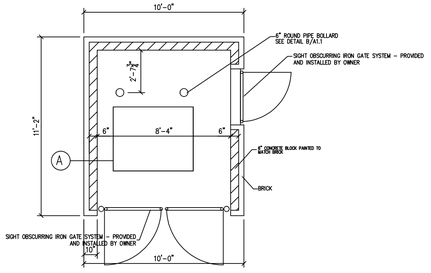
ACO, INC.

WEST SALES OFFICE	EAST SALES OFFICE	SOUTHEAST SALES OFFICE
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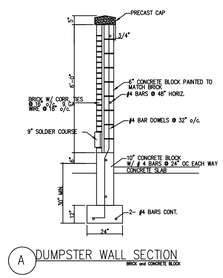
www.acousa.com



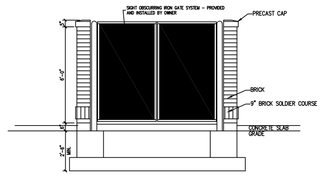
DUMPSTER FOOTING & FOUNDATION



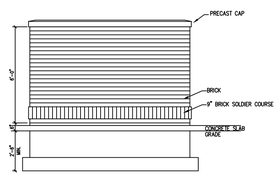
DUMPSTER PLAN



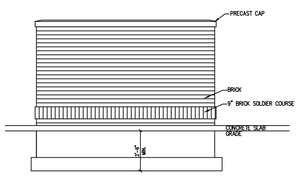
A DUMPSTER WALL SECTION
BRICK and CONCRETE BLOCK



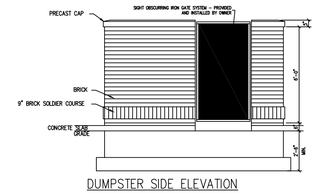
DUMPSTER FRONT ELEVATION



DUMPSTER REAR ELEVATION



DUMPSTER SIDE ELEVATION



DUMPSTER SIDE ELEVATION

DUMPSTER DRAWINGS

REVISIONS
1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____

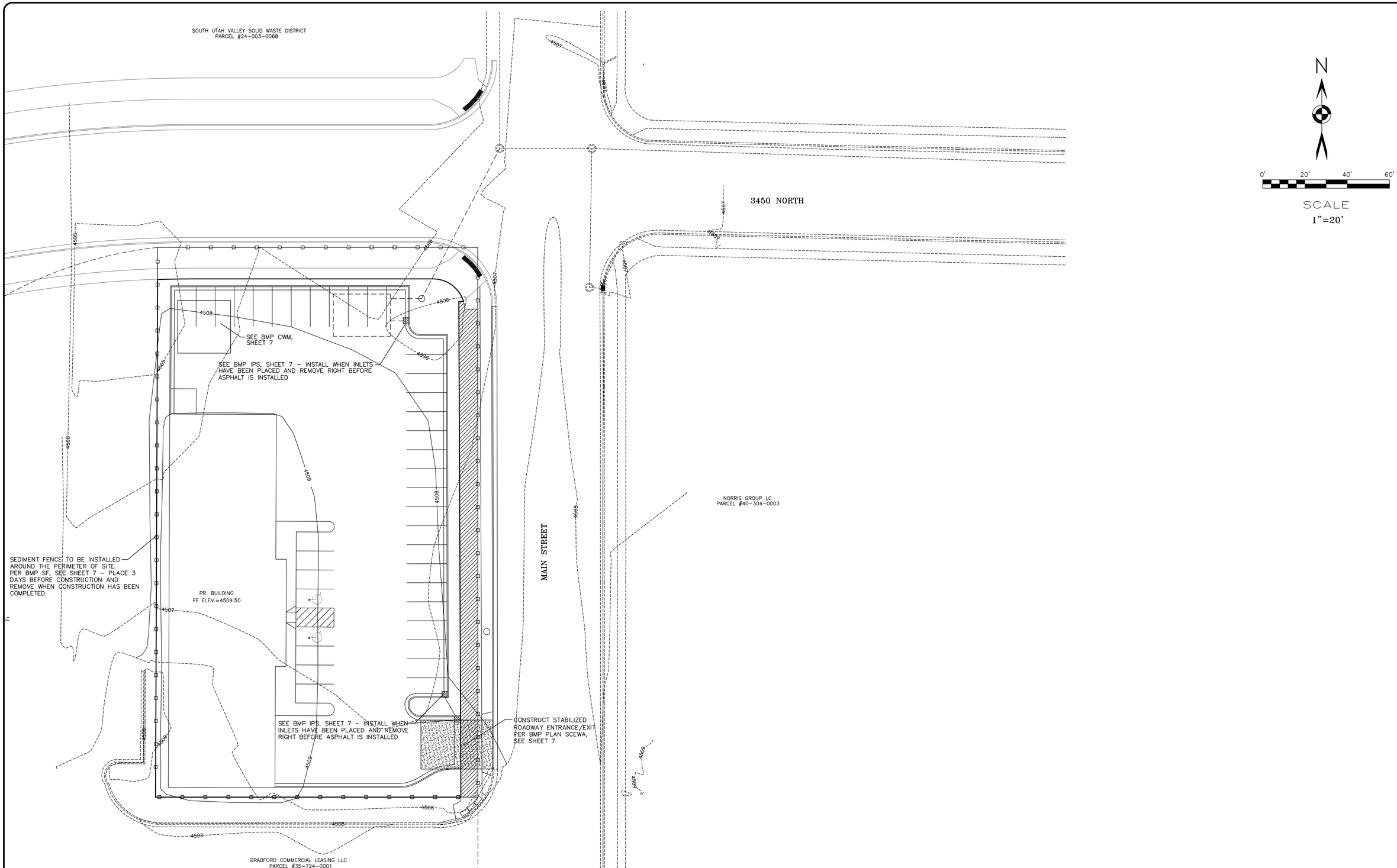
PROJECT NO.: LE 3857 SURVEYOR/DIRECTOR: D. PENROD
DATE: FEBRUARY 2022 FIELD SURVEYOR: M. JACOBSON
SCALE: N/A DRAWN: K. ROUNDY
REVISION: _____ CHECKED: B. LUDLOW

LUDLOW ENGINEERING & ASSOCIATES
Subdivisions * Boundary Surveys * City Lot Surveys * ALTA Surveys
Claim Surveys * Control Networks * Construction Surveys * Topography
Civil * Sewer & Water Design * Residential & Commercial Structure
Subdivision Design * Site Plans * Road Design
1451 South Main, Nephi, Utah 84648 (435) 623-0897 FAX (435) 623-2381

DETAIL SHEET

ACTIVE AUTO
SECTION 1, T 8 S, R 2 E, SLB&M.
SPANISH FORK CITY, UTAH COUNTY, UTAH
FEBRUARY 2022

SHEET 5 OF 7 SHEETS



REVISIONS

1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____

PROJECT NO.: LE 3857 SURVEYOR/DIRECTOR: D. PENROD
DATE: FEBRUARY 2022 FIELD SURVEYOR: M. JACOBSON
SCALE: 1" = 20' DRAWN: K. ROUNDY
REVISION: _____ CHECKED: B. LUDLOW

LUDLOW ENGINEERING & ASSOCIATES
Subdivisions * Boundary Surveys * City Lot Surveys * ALTA Surveys
Claim Surveys * Control Networks * Construction Surveys * Topography
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STORMWATER POLLUTION PREVENTION PLAN

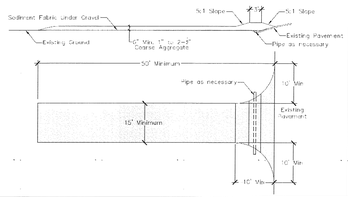
ACTIVE AUTO

SECTION 1, T 8 S, R 2 E, SLB&M
SPANISH FORK CITY, UTAH COUNTY, UTAH
FEBRUARY 2022

SHEET 6 OF 7 SHEETS

- Place coarse aggregate, 1 to 2 ½ inches in size, to a minimum depth of 6 inches.
- Requires periodic top dressing with additional stones.
- Should be used in conjunction with street sweeping on adjacent public right-of-way.
- Inspect daily for loss of gravel or sediment buildup.
- Inspect adjacent roadway for sediment deposit and clean by sweeping or shoveling.
- Repair entrance and replace gravel as required to maintain control in good working condition.
- Expand stabilized area as required to accommodate traffic and prevent erosion at driveways.

(Approved DATE)



Forms & Tools: [link to Construction BMP Manual]

Training:
This training shall be included in the Construction Training found at the following link:

[link to website once it is up]

The following individuals shall be required to receive this training:

- City Construction Crew Personnel
- City Public Works Inspectors
- Contractors

CONSTRUCTION SPILL CLEAN-UP

Purpose:
Clean construction spills to prevent storm water contamination.



Selection Method and Technical Basis:
This BMP was developed by the SWPPP Inspector with review by the Public Works Director, Engineering Division, accenaGroup and Epic Engineering. When construction spills occur, a thorough clean-up procedure must be used. This will ensure spills are cleaned promptly and thoroughly, to prevent an illicit discharge.

Pollutant: Acids, Chemicals, Contaminated Debris, Fuel, Garbage Container Leakage, Herbicides, Oil, Paint, Pesticides, Contaminated Sediment, etc.

Related SWMP Sections:

4.2.6.6.1 Operation and Maintenance Programs for City Buildings and Facilities
Buildings and facilities SOPs shall address, but is not limited to: Permittee-owned or operated offices, police and fire stations, pools, parking garages, and other Permittee-owned or operated buildings or utilities. The SOPs must address the use, storage and disposal of chemicals and ensure through employee training, that those responsible for handling those products understand and implement the SOPs. All permittee owned or operated facilities must develop and ensure that spill prevention plans are in place, if applicable, and coordinate with the local fire department as necessary. The SOPs must address dumpsters and other waste management which includes, but is not limited to, cleaning, washing, painting and other maintenance activities. The Permittee must include a description of schedules and SOPs for sweeping parking lots and keeping the area surrounding the facilities clean to minimize runoff of pollutants. All Permittees must maintain an inventory of all floor drains inside all Permittee owned or operated buildings. The inventory must be kept current. The Permittee must ensure that all floor drains discharge to appropriate locations.

The following BMPs will be added to Appendix D for the O&M program for City buildings and facilities. They will be used in SWPPPs and PCMPs created for each facility:

- Spill Prevention and Clean-up: Post Construction BMP

The SWPPPs and PCMPs for City Facilities shall include a floor drain. See Section 4.2.6.4.

INLET PROTECTION

Purpose:
To allow clean storm water to enter the storm drain system, while retaining any pollutants.



Selection Method and Technical Basis:
This BMP was developed by the SWPPP Inspector with review by the Public Works Director, Engineering Division, accenaGroup and Epic Engineering. Unprotected storm water inlets are vulnerable to illicit discharges. By implementing Inlet Protection, storm water pollutants are kept out of the storm drain system.

Pollutant(s) Targeted: Acids, Chemicals, Contaminated Debris, Fuel, Garbage Container Leakage, Herbicides, Oil, Paint, Pesticides, Contaminated Sediment, etc.

Related SWMP Sections:

4.2.4.1 Erosion Requirements
Revise as necessary and enforce an ordinance or other regulatory mechanism that requires the use of erosion and sediment control practices at construction sites. The ordinance or other regulatory mechanism shall, at a minimum, be equivalent with the requirements set forth in the most current UPDES Storm Water General Permits for Construction Activities which can be found at http://www.deq.utah.gov/Permits/water/updes/stormwatercon.htm
The ordinance or other regulatory mechanism shall include sanctions to ensure compliance. The ordinance or other regulatory mechanism shall apply, at a minimum, to construction projects disturbing greater than or equal to one acre and to construction projects of less than one acre that are part of a larger common plan of development or sale. Existing local requirements to apply storm water controls at sites less than 1 acre or not part of a Common Plan of Development may be retained.

The City Storm Water Drainage Design Manual in Appendix E requirements must be met. These requirements include submitting a SWPPP as part of the final plan set that the City can review. SWPPPs shall use appropriate BMPs from the City BMP manuals. In addition, the City will be adopting, or modifying ordinances, to meet the requirements of this section. The modifications to the ordinances will be completed by December 2015.

4.2.4.4 SOPs for Site Inspections and Enforcement
All Permittees shall develop and implement SOPs or similar type of documents for construction site inspection and enforcement of construction storm water pollution control measures. The procedures must clearly define who is responsible for site inspections as well as who has authority to implement enforcement procedures. The Permittee must have the authority to the extent authorized by law to impose sanctions to ensure compliance with the local program. These procedures and regulatory authorities must be written and documented in the SWMP. The construction site storm water runoff control inspection program must provide:

PORTABLE TOILETS

Purpose:
Prevent pollutants from portable toilets from entering the storm system.



Selection Method and Technical Basis:
This BMP was developed by the SWPPP Inspector with review by the Public Works Director, Engineering Division, accenaGroup and Epic Engineering. Portable Toilets can potentially leak and cause an illicit discharge. Implementing proper BMP's will reduce the risk of pollutants from entering the storm system.

Pollutant(s) Targeted: Chemicals, Hazardous Waste, Sediment.

Related SWMP Sections:

4.2.4.1 Erosion Requirements
Revise as necessary and enforce an ordinance or other regulatory mechanism that requires the use of erosion and sediment control practices at construction sites. The ordinance or other regulatory mechanism shall, at a minimum, be equivalent with the requirements set forth in the most current UPDES Storm Water General Permits for Construction Activities which can be found at

http://www.deq.utah.gov/Permits/water/updes/stormwatercon.htm

The ordinance or other regulatory mechanism shall include sanctions to ensure compliance. The ordinance or other regulatory mechanism shall apply, at a minimum, to construction projects disturbing greater than or equal to one acre and to construction projects of less than one acre that are part of a larger common plan of development or sale. Existing local requirements to apply storm water controls at sites less than 1 acre or not part of a Common Plan of Development may be retained.

The City Storm Water Drainage Design Manual in Appendix E requirements must be met. These requirements include submitting a SWPPP as part of the final plan set that the City can review. SWPPPs shall use appropriate BMPs from the City BMP manuals. In addition, the City will be adopting, or modifying ordinances, to meet the requirements of this section. The modifications to the ordinances will be completed by December 2015.

Policy/SOP/Standard:
Policy: All construction sites should place Portable Toilets a minimum of ten feet behind the curb. Installing procedures should include the following:

- Prepare a level gravel surface and provide clear access for on-site personnel and servicing.
- Construct an earth berm perimeter, at a minimum of 6 inches tall by 6 inches wide, for spill and leak protection.

SILT FENCE

Purpose:
Create a temporary barrier to help retain sediment and pollutant onsite.



Selection Method and Technical Basis:
This BMP was developed by the SWPPP Inspector with review by the Public Works Director, Engineering Division, accenaGroup and Epic Engineering. The storm drain system can be contaminated by sediment and other pollutants. By installing a Silt Fence, sediment and pollutants can be retained onsite, keeping the storm drain system clean.

Pollutant(s) Targeted: Contaminated Storm Water, Debris, Sediment.

Related SWMP Sections:

4.2.4.1.1 SWPPP Requirement
The ordinance or other regulatory mechanism shall, at a minimum, require operators to prepare a Storm Water Pollution Prevention Plan (SWPPP) and **apply sediment and erosion control BMPs** as necessary to protect water quality, reduce the discharge of pollutants, and control waste such as, but not limited to, discarded building materials, concrete truck washout, chemicals, litter and sanitary waste at the construction site that may cause adverse impacts to water quality. The SWPPP requirements must be, at a minimum, equivalent with the SWPPP requirements set forth in the most current UPDES Storm Water General Permits for Construction Activities, which can be found at:

http://www.deq.utah.gov/Permits/water/updes/stormwatercon.htm

Title 13 (Appendix I) will be updated to include the requirements of this section. The following link is to Title 13.

http://www.spanishfork.org/dept/admin/code.php,

Policy/SOP/Standard:
Policy:

A Silt Fence may be used as a barrier for control or protection to keep pollutants out of the storm drain systems. If implementing a Silt Fence, the following items should be considered:

Policy/SOP/Standard:
Policy:
Stop the source of the spill if it can be done safely. Contain any liquids, if possible to safely do so. Cover the spill with absorbent material such as kitty litter, sawdust, or oil absorbent pads. Do not use straw or water. Petroleum spills involve, but are not limited to: crude oil, gasoline, various fuel oils, lubricating oil, hydraulic oil, asphaltic residuals.

Report spills to (801)-804-4440 if:

1. The spill is greater than 25 gallons, or
2. The spill cannot be immediately contained, or
3. The spill and/or contamination cannot be completely removed within 24 hours, or
4. There is an impact or potential impact to ground/surface water.
5. IF IN DOUBT, REPORT THE SPILL!

Hazardous materials spills, involving non-oil spills that pose a threat to human health or the environment, such as chemical releases, should be reported within one hour to local emergency officials at (801)-798-5075. Implement the following when necessary.

1. Keep a spill kit in areas where petroleum or hazardous materials are stored.
2. Train employees in spill response procedures and equipment.
3. Deploy containment booms if spill could potentially reach a storm drain or waterbody.
4. Position mats to contain drips from equipment or vehicles until they can be repaired.

(Approved DATE)

Forms & Tools: [link to Construction BMP Manual]

Training:
This training shall be included in the Construction Training found at the following link:

[link to website once it is up]

The following individuals shall be required to receive this training:

- City Construction Crew Personnel
- City Public Works Inspectors
- Contractors

The SOPs for construction site inspections and enforcement will be developed the Construction BMP SWPPP Inspection in Appendix D. The authority to enforce these measures is found in Title 13.16.110 Enforcement (Appendix I) at following link.

http://www.spanishfork.org/dept/admin/pdf/citycode/TITLE13.pdf

Policy/SOP/Standard:

Policy: Inlet Protection should be used on all inlets within the construction site boundary. Additional inlets may require protection or other gradient controls may be needed downstream from the construction site. Multiple forms of protection are often required.

The protection used must be documented in the SWPPP. Daily Maintenance must be performed to ensure the Inlet Protection used is keeping pollutants out and to address any issues. Snouts within the storm inlet are NOT considered inlet protection.

A few forms of Inlet Protection are listed below:

- Curb inlet sediment Bag
- Silt sack
- Silt fences
- Grate guard
- Gradient controls
- Wattles
- Sediment control sock
- Gutter guards
- Inlet filters

(Approved DATE)

Forms & Tools: [link to Construction BMP Manual]

Training:
This training shall be included in the Construction Training found at the following link:

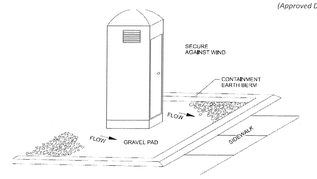
[link to website once it is up]

The following individuals shall be required to receive this training:

- City Construction Crew Personnel
- City Public Works Inspectors
- Contractors

- Portable Toilets shall be maintained by a licensed service and have daily inspection for leaks or damage.
- Regular waste collection should be provided by a licensed service. All waste must be deposited in a sanitary sewer system with appropriate agency approval.

(Approved DATE)



Forms & Tools: [link to Construction BMP Manual]

Training:
This training shall be included in the Construction Training found at the following link:

[link to website once it is up]

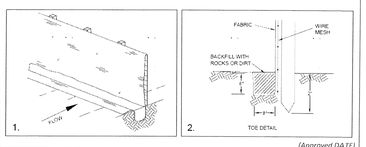
The following individuals shall be required to receive this training:

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- City Public Works Inspectors
- Contractors

Installation:
- Place posts 6 feet apart on center along contour (or use preassembled unit) and drive 2 feet minimum into ground. Excavate an anchor trench immediately up-gradient of posts.
- Secure wire mesh (14 gage min. with 6-inch openings) to upslope side of posts. Attach with heavy duty 1 inch long wire staples, tie wires or hog rings.
- Cut fabric to required width, unroll along length of barrier and drape over barrier. Secure fabric to mesh with twine, staples, or similar, with trailing edge extending into the anchor trench.
- Backfill trench over filter fabric to anchor.

Limitations:
- Recommended maximum drainage area of 0.5 acre per 100 feet of fence
- Recommended maximum up-gradient slope length of 150 feet
- Recommended maximum uphill grade of 2:1 (50%)
- Ponding should not be allowed behind fence

Maintenance:
- Inspect immediately after any rainfall and at least daily during prolonged rainfall.
- Look for runoff bypassing ends of barriers or undercutting barriers.
- Repair or replace damaged areas of the barrier and remove accumulated sediment.
- Re-anchor fence as necessary to prevent shortcutting.
- Remove accumulated sediment when it reaches ½ the height of the fence.



(Approved DATE)

Forms & Tools: [link to Construction BMP Manual]

Training:
This training shall be included in the Construction Training found at the following link:

[link to website once it is up]

The following individuals shall be required to receive this training:

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REVISIONS
1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____

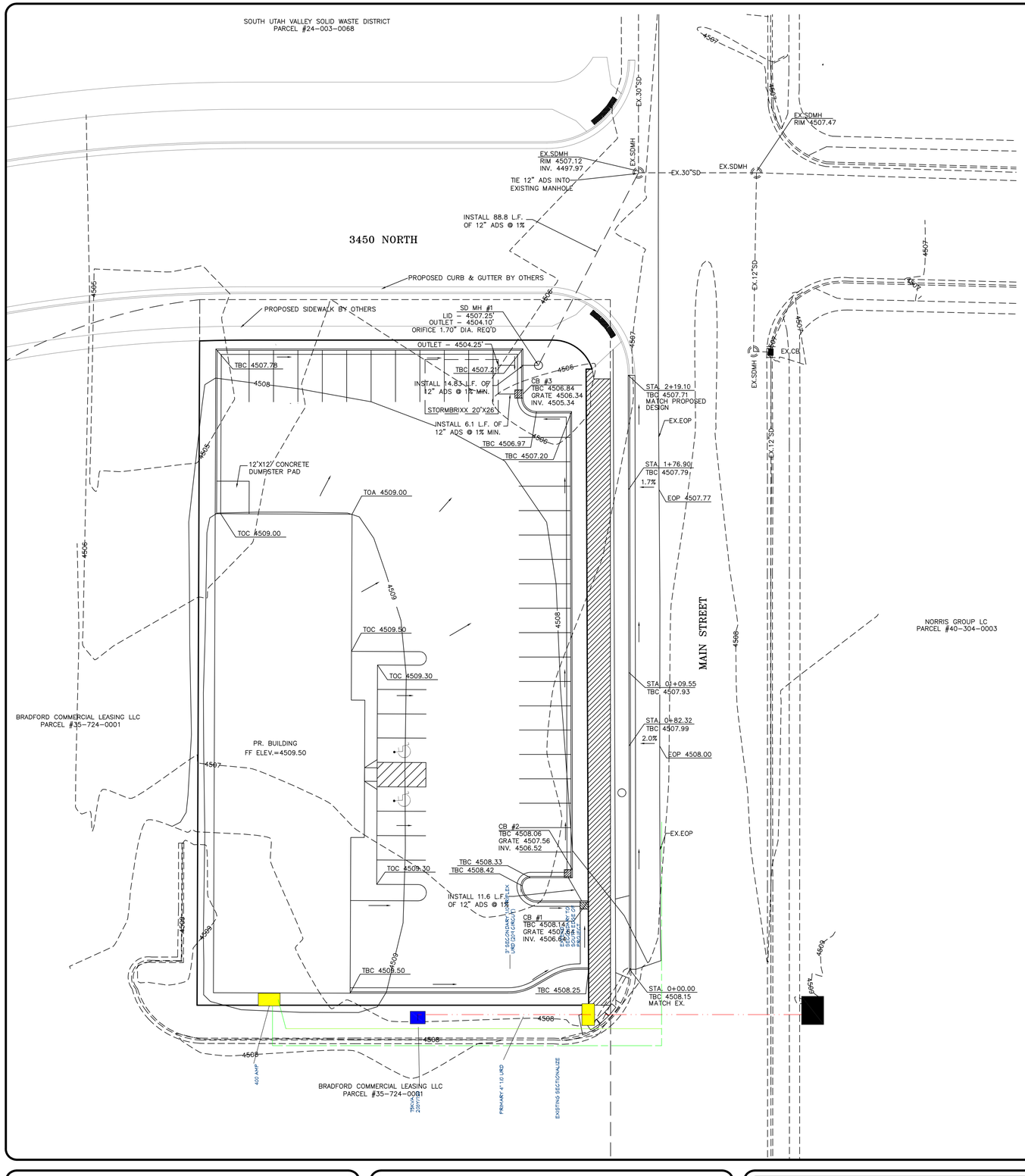
PROJECT NO.: LE 3857 SURVEYOR/DIRECTOR: D. PENROD
DATE: FEBRUARY 2022 FIELD SURVEYOR: M. JACOBSON
SCALE: N/A DRAWN: K. ROUNDY
REVISION: _____ CHECKED: B. LUDLOW

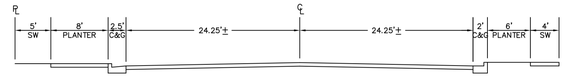
LUDLOW ENGINEERING & ASSOCIATES
Subdivisions * Boundary Surveys * City Lot Surveys * ALTA Surveys
Claim Surveys * Control Networks * Construction Surveys * Topography
Civil * Sewer & Water Design * Residential & Commercial Structure
Subdivision Design * Site Plans * Road Design
1451 South Main, Nephi, Utah 84648 (435) 623-0897 FAX (435) 623-2381

BEST MANAGEMENT PRACTICES

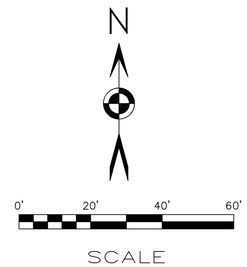
ACTIVE AUTO
SECTION 1, T 8 S, R 2 E, SLB&M
SPANISH FORK CITY, UTAH COUNTY, UTAH
FEBRUARY 2022

SHEET 7 OF 7 SHEETS

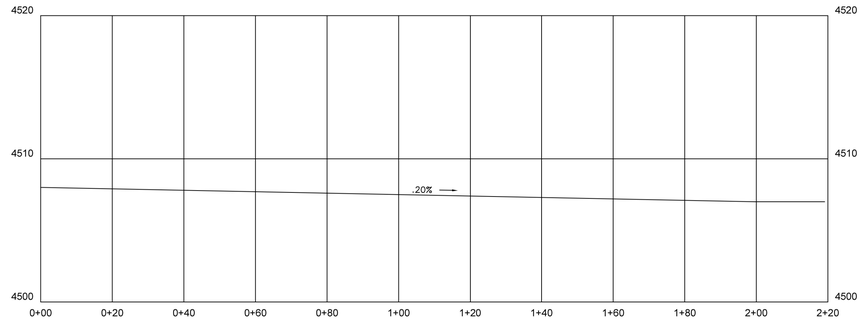




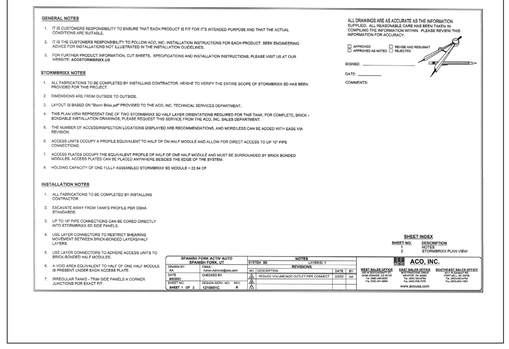
MAIN STREET-CROSS SECTION
-NTS-



SCALE
1"=20'



MAIN STREET-PLAN & PROFILE



GENERAL NOTES

1. IT IS CUSTOMERS RESPONSIBILITY TO ENSURE THAT EACH PRODUCT IS FIT FOR IT'S INTENDED PURPOSE AND THAT THE ACTUAL CONDITIONS ARE SUITABLE.
2. IT IS THE CUSTOMERS RESPONSIBILITY TO FOLLOW ACO, INC. INSTALLATION INSTRUCTIONS FOR EACH PRODUCT. SEEK ENGINEERING ADVICE FOR INSTALLATIONS NOT ILLUSTRATED IN THE INSTALLATION GUIDELINES.
3. FOR FURTHER PRODUCT INFORMATION, CUT SHEETS, SPECIFICATIONS AND INSTALLATION INSTRUCTIONS, PLEASE VISIT US AT OUR WEBSITE: ACOSTORMBRIXX.US

STORMBRIXX NOTES

1. ALL FABRICATIONS TO BE COMPLETED BY INSTALLING CONTRACTOR. HEISHE TO VERIFY THE ENTIRE SCOPE OF STORMBRIXX SD HAS BEEN PROVIDED FOR THIS PROJECT.
2. DIMENSIONS ARE FROM OUTSIDE TO OUTSIDE.
3. LAYOUT IS BASED ON "Storm Brixx.pdf" PROVIDED TO THE ACO, INC. TECHNICAL SERVICES DEPARTMENT.
4. THE PLAN VIEW REPRESENT ONE OF TWO STORMBRIXX SD HALF LAYER ORIENTATIONS REQUIRED FOR THIS TANK. FOR COMPLETE, BRICK - BOXSHIELD INSTILLATION DRAWINGS, PLEASE REQUEST THIS SERVICE FROM THE ACO, INC. SALES DEPARTMENT.
5. THE NUMBER OF ACCESS/INSPECTION LOCATIONS DISPLAYED ARE RECOMMENDATIONS, AND MORELESS CAN BE ADDED WITH EASE VIA REVISION.
6. ACCESS UNITS OCCUPY A PROFILE EQUIVALENT TO HALF OF ON HALF MODULE AND ALLOW FOR DIRECT ACCESS TO UP 15" PIPE CONNECTIONS.
7. ACCESS PLATES OCCUPY THE EQUIVALENT PROFILE OF HALF OF ONE HALF MODULE AND MUST BE SURROUNDED BY BRICK BOXED MODULES. ACCESS PLATES CAN BE PLACED ANYWHERE BESIDES THE EDGE OF THE SYSTEM.
8. HOLDING CAPACITY OF ONE FULLY ASSEMBLED STORMBRIXX SD MODULE = 22.94 CF

INSTALLATION NOTES

1. ALL FABRICATIONS TO BE COMPLETED BY INSTALLING CONTRACTOR.
2. EXCAVATE AWAY FROM TANK'S PROFILE PER OSHA STANDARDS.
3. UP TO 15" PIPE CONNECTIONS CAN BE CORED DIRECTLY INTO STORMBRIXX SD SIDE PANELS.
4. USE LAYER CONNECTORS TO RESTRICT SHEARING MOVEMENT BETWEEN BRICK-BOXED LAYERS/HALF LAYERS.
5. USE LAYER CONNECTORS TO ACHEIVE ACCESS UNITS TO BRICK-BOXED HALF MODULES.
6. A VOID AREA EQUIVALENT TO HALF OF ONE HALF MODULE IS PRESENT UNDER EACH ACCESS PLATE.
7. IRREGULAR TRAVEL - TRIM SIDE PANELS & CORNER JUNCTIONS FOR EXACT FIT.

ALL DRAWINGS ARE AS ACCURATE AS THE INFORMATION SUPPLIED TO ACO ENGINEERING HAS BEEN. PLEASE REVIEW COMPILING THE INFORMATION BELOW. PLEASE REVIEW THIS INFORMATION FOR ACCURACY.

☐ APPROVED ☐ REVISE AND RESUBMIT
☐ APPROVED AS NOTED ☐ REJECTED

SIGNED: _____
DATE: _____
COMMENTS: _____

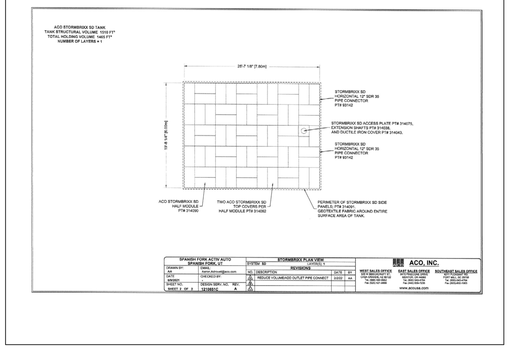
SHEET INDEX

SHEET NO.	DESCRIPTION
1	STORMBRIXX PLAN VIEW

SPANISH FORK ACTIVE AUTO	STORMBRIX PLAN VIEW	
DRAWING BY:	SYSTEM: SD	SCALE: 1" = 20'
DATE:	REVISIONS	
SHEET: 1 OF 1	NO. DESCRIPTION	DATE / BY
	A REVISED ACO ANCHOR OUTLET PIPE CONNECT	03/05 / JHL

ACO, INC.

WEST SALES OFFICE: 5215 Industrial Road, Suite 100, Farmington, NM 87401, Tel: 505.325.1815, Fax: 505.325.1919
EAST SALES OFFICE: 2850 Horizon Blvd., Suite 100, Hebron, KY 41048, Tel: 859.334.3300, Fax: 859.334.3333
SOUTHEAST SALES OFFICE: 1000 Corporate Drive, Suite 500, Fort Lauderdale, FL 33334, Tel: 954.769.7342, Fax: 954.769.7343
www.acousa.com



SPANISH FORK ACTIVE AUTO	STORMBRIXX PLAN VIEW	
DRAWING BY:	SYSTEM: SD	SCALE: 1" = 20'
DATE:	REVISIONS	
SHEET: 1 OF 1	NO. DESCRIPTION	DATE / BY
	A REVISED ACO ANCHOR OUTLET PIPE CONNECT	03/05 / JHL

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SOUTHEAST SALES OFFICE: 1000 Corporate Drive, Suite 500, Fort Lauderdale, FL 33334, Tel: 954.769.7342, Fax: 954.769.7343
www.acousa.com

REVISIONS

1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____

PROJECT NO.: LE 3857 SURVEYOR/DIRECTOR: D. PENROD
DATE: 2/7/2022 FIELD SURVEYOR: M. JACOBSON
SCALE: 1" = 20' DRAWN: K. ROUNDY
REVISION: _____ CHECKED: B. LUDLOW

LUDLOW ENGINEERING & ASSOCIATES
Subdivisions * Boundary Surveys * City Lot Surveys * ALTA Surveys
Claim Surveys * Control Networks * Construction Surveys * Topography
Civil * Sewer & Water Design * Residential & Commercial Structure
Subdivision Design * Site Plans * Road Design
1451 South Main, Nephi, Utah 84648 (435) 623-0897 FAX (435) 623-2381

GRADING PLAN

ACTIVE AUTO
SECTION 1, T 8 S, R 2 E, SLB&M
SPANISH FORK CITY, UTAH COUNTY, UTAH
2/7/2002

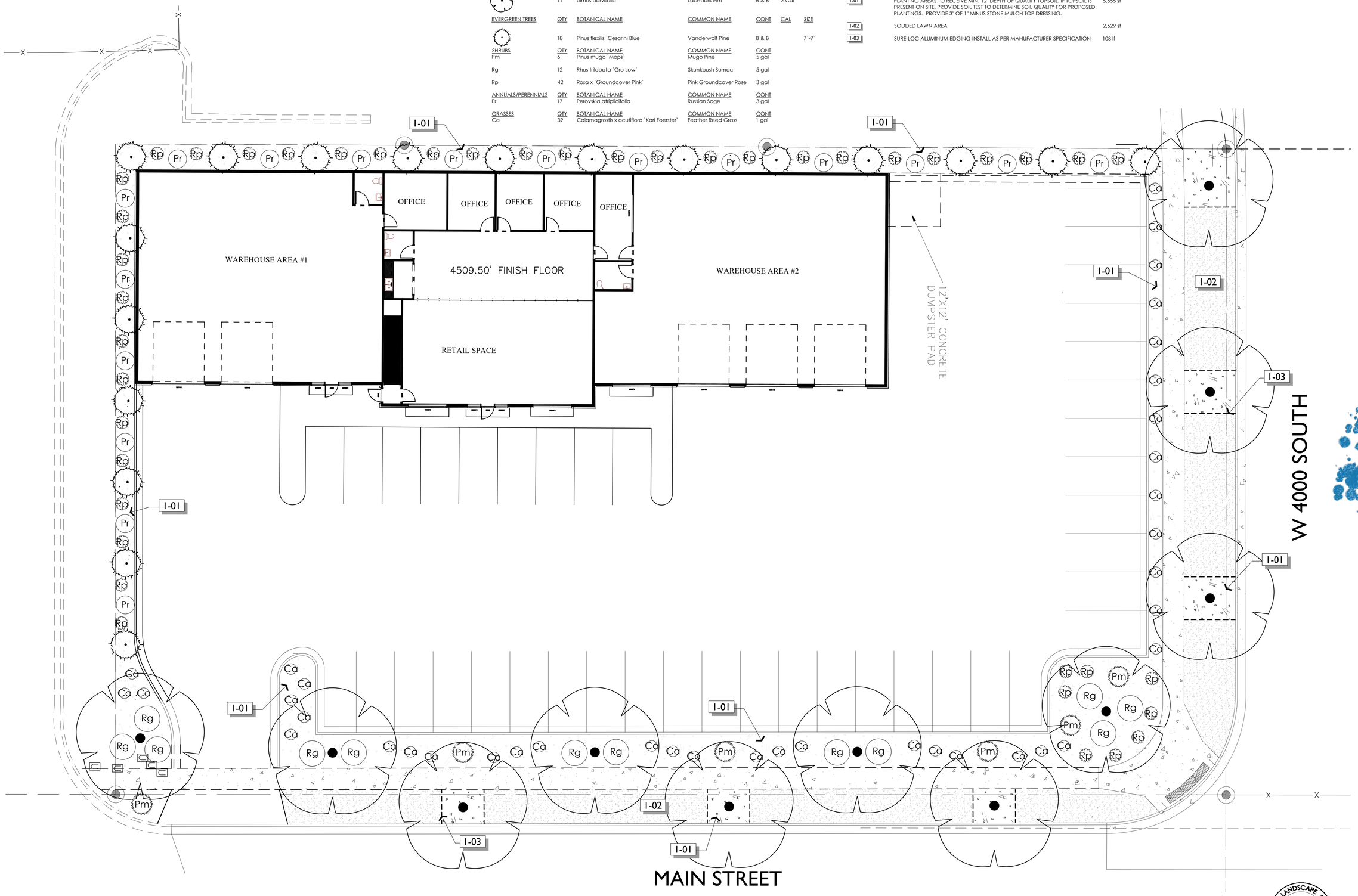
SHEET 3 OF 7 SHEETS

PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL NAME	COMMON NAME	CONT	CAL	SIZE
	11	Ulmus parvifolia	Lacebark Elm	B & B	2"Cal	
EVERGREEN TREES	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**CAL**	**SIZE**
	18	Pinus flexilis `Cesarini Blue`	Vanderwolf Pine	B & B		7`-9`
SHRUBS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**		
Pm	6	Pinus mugo `Mops`	Mugo Pine	5 gal		
Rg	12	Rhus trilobata `Gro Low`	Skunkbush Sumac	5 gal		
Rp	42	Rosa x `Groundcover Pink`	Pink Groundcover Rose	3 gal		
ANNUALS/PERENNIALS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**		
Pr	17	Perovskia atriplicifolia	Russian Sage	3 gal		
GRASSES	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**		
Ca	39	Calamagrostis x acutiflora `Karl Foerster`	Feather Reed Grass	1 gal		

REFERENCE NOTES SCHEDULE

SYMBOL	1 LANDSCAPE DESCRIPTION	QTY
I-01	PLANTING AREAS TO RECEIVE MIN. 12" DEPTH OF QUALITY TOPSOIL. IF TOPSOIL IS PRESENT ON SITE. PROVIDE SOIL TEST TO DETERMINE SOIL QUALITY FOR PROPOSED PLANTINGS. PROVIDE 3" OF 1" MINUS STONE MULCH TOP DRESSING.	5,555 sf
I-02	SODDED LAWN AREA	2,629 sf
I-03	SURE-LOC ALUMINUM EDGING-INSTALL AS PER MANUFACTURER SPECIFICATION	108 lf



LIVE DESIGN
WWW.LIVEDSGN.COM

PROJECT NO: 210814
3380 NORTH MAIN STREET,
SPANISH FORK, UTAH

ACTIVE AUTO

ATTENTION: PRIOR TO PERFORMING ANY WORK ON THIS PLAN CONTRACTOR SHALL IDENTIFY THROUGH BLUESTAKES AND ON-SITE OBSERVATION ANY AND ALL UTILITIES AND HAZARDS OR CONDITIONS THAT MAY PREVENT WORK FROM BEING PERFORMED ACCORDING TO THESE PLANS ABOVE OR BELOW GROUND. IF CONDITIONS ARE FOUND THAT MAY PREVENT WORK FROM BEING PERFORMED AS PER PLAN, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT PRIOR TO PROCEEDING. ANY DAMAGE TO UTILITIES SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY (I.E. ELECTRICAL, GAS, WATER,SEWER, ETC.). EVERY EFFORT HAS BEEN MADE TO ENSURE ACCURACY WITH THESE DRAWINGS. QUANTITIES (If and sf) LISTED ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND QUANTITIES ON THESE PLANS. ARCHITECT SHALL NOT BE RESPONSIBLE FOR DISCREPANCIES BETWEEN QUANTITIES LISTED IN LEGENDS AND PLAN. WHERE DISCREPANCIES EXIST BETWEEN SPECIFICATIONS, DETAILS, AND/OR DRAWINGS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT PRIOR TO PROCEEDING. CONTRACTOR SHALL INSPECT THE SITE TO VERIFY THAT DRAWINGS ARE CONSISTENT WITH SURVEYED BASE INFORMATION. DURING CONSTRUCTION IF DISCREPANCIES ARE FOUND BETWEEN THESE PLANS AND THE SITE, CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.

0' 10' 30' 1"=10' (24"X36") NORTH >

LICENSED LANDSCAPE ARCHITECT
January 31, 2022
No. 7922519301
R. August Bateman
STATE OF UTAH

ENG/ARCH:
DRAWN BY: RAB
REVIEWED BY: RAB

DATE: 31 Jan 2022

LANDSCAPE PLANTING PLAN

L-1.1

GENERAL IRRIGATION NOTES:

1. THIS IRRIGATION DESIGN IS DIAGRAMMATIC. IT IS DESIGNED USING AN ASSUMED MINIMUM PRESSURE AT POINT OF CONNECTION OF 75 PSI. CONTRACTOR SHALL VERIFY PRESSURE PRIOR TO CONSTRUCTION AND INFORM OWNER IF PRESSURE IS LOWER THAN DESIGN PRESSURE.
2. DRIP LATERAL LINES ARE NOT SHOW GOING TO EVERY PLANT FOR DESIGN CLARIFICATION ONLY AND THE CONTRACTOR SHALL ENSURE ALL PLANTS RECEIVE DRIP IRRIGATION, EQUIPMENT, PIPING AND VALVES, ETC. SHOWN WITHIN PAVED AREAS ARE SHOWN FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED WITHIN THE PLANTING AREAS LOCATE VALVES AND BFPS WITHIN SHRUB AREAS SO THAT THEY ARE VISUALLY UNOBTRUSIVE.
3. ALL PVC PIPE TO HAVE A MINIMUM PRESSURE RATING OF 200 P.S.I.. ALL POLYETHLENE PIPE TO BE PE340B RECLAIMED WATER PIPE.
4. ALL SLEEVES SHALL BE A MINIMUM OF TWO TIMES THE DIAMETER OF THE LINE SIZE. REFER LONG SWEEP NOTE.
5. CONTROLLER WIRES THAT ARE DIRECT BURIED SHALL BE BUNDLED AND TIED OR WRAPPED EVERY TWELVE (12') FEET. DURING INSTALLATION WIRES SHALL HAVE A 24" LOOP TIED AT ALL DIRECTION CHANGES GREATER THAN 30 DEGREES AND BE UNTIED PRIOR TO TRENCH FILL IN.
6. FLUSH CAPS SHALL BE PLACED IN A VALVE BOX AT THE END OF ALL LANDSCAPE LATERALS.
7. ALL VALVES, PRESSURE REGULATORS AND OTHER DEVICES SHALL BE PLACED IN AN APPROPRIATELY SIZED VALVE BOX WITH A MINIMUM OF 2' OF PEA GRAVEL.
8. THESE NOTES ARE TO BE USED FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, APPROVED ADDENDA, AND CHANGE ORDERS ASSOCIATED WITH THESE LANDSCAPE IMPROVEMENT DOCUMENTS.
9. A QUALIFIED SUPERVISOR SHALL BE PRESENT ON SITE AT ALL TIMES DURING CONSTRUCTION.
10. BEFORE WORK BEGINS ON THE PROJECT, THE IRRIGATION CONTRACTOR SHALL REVIEW THE PROJECT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE AND/OR OWNER. THE OWNER'S AUTHORIZED REPRESENTATIVE AND/OR OWNER IS TO APPROVE ANY CHANGES PRIOR TO THE START OF ANY WORK.
11. IRRIGATION CONTRACTOR SHALL INSPECT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE AND/OR OWNER ALL EXISTING CONDITIONS PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT TO REPAIR AND/OR REPLACE, AT THEIR OWN EXPENSE, ANY STRUCTURES, FENCES, WALLS, PLANT MATERIAL, OR OTHER ITEMS DESTROYED DURING CONSTRUCTION. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND/OR REPLACING ANY AND ALL DAMAGES TO ADJACENT PROPERTIES OR ANY OTHER AREAS OUTSIDE THE CONTRACT LIMITS. THE DAMAGED ITEMS/AREAS WILL BE RESTORED TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND/OR OWNER.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL IRRIGATION LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE LOCATIONS OF EXISTING AND FUTURE UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH THE WORK TO BE DONE, PRIOR TO THE START OF WORK. ALL UNDERGROUND UTILITIES ARE TO BE LOCATED AND PROTECTED. CONTRACTOR IS RESPONSIBLE FOR THE INITIAL CALL AND FUTURE UPDATES TO BLUE STAKES AT 811.
13. ALL HARDSCAPE, WALLS, SIGNAGE, AND HEADER MUST BE STAKED AND APPROVED BY THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO CONSTRUCTION.
14. VERIFY CRITICAL DIMENSIONS, REFERENCE POINT LOCATIONS, AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT SHOULD CONFLICTS ARISE.
15. IRRIGATION CONTRACTOR SHALL PROVIDE BARRICADES AND TRAFFIC CONTROL ALONG PUBLIC STREETS IF REQUIRED DURING CONSTRUCTION.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
M L O	Hunter MP1000 PROS-06-PRS40-CV Turf Rotator, 6" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	23
ADJ. 360	Hunter MP800SR PROS-06-PRS40-CV Turf Rotator, 6.0" pop-up with check valve, pressure regulated to 40 psi, MP Rotator nozzle on PRS40 body. ADJ=Orange and Gray (arc 90-210), 360=Lime Green and Gray (arc 360)	48

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICZ-101-40 1" Drip Control Zone Kit. 1" ICV Globe Valve with 1" HY100 filter system. Pressure Regulation: 40psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen.	1
	Pipe Transition Point Transition from underground PVC to above ground connection to 1/2" blank lateral drip tubing.	12
	Area to Receive Dripline Hunter HDL-PC Hunter Dripline with .9 GPH flow, Emitters at 24" O.C. Dripline laterals spaced at 24" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings. SEE DETAIL FOR TYPICAL DRIP LAYOUT.	2,835 s.f.

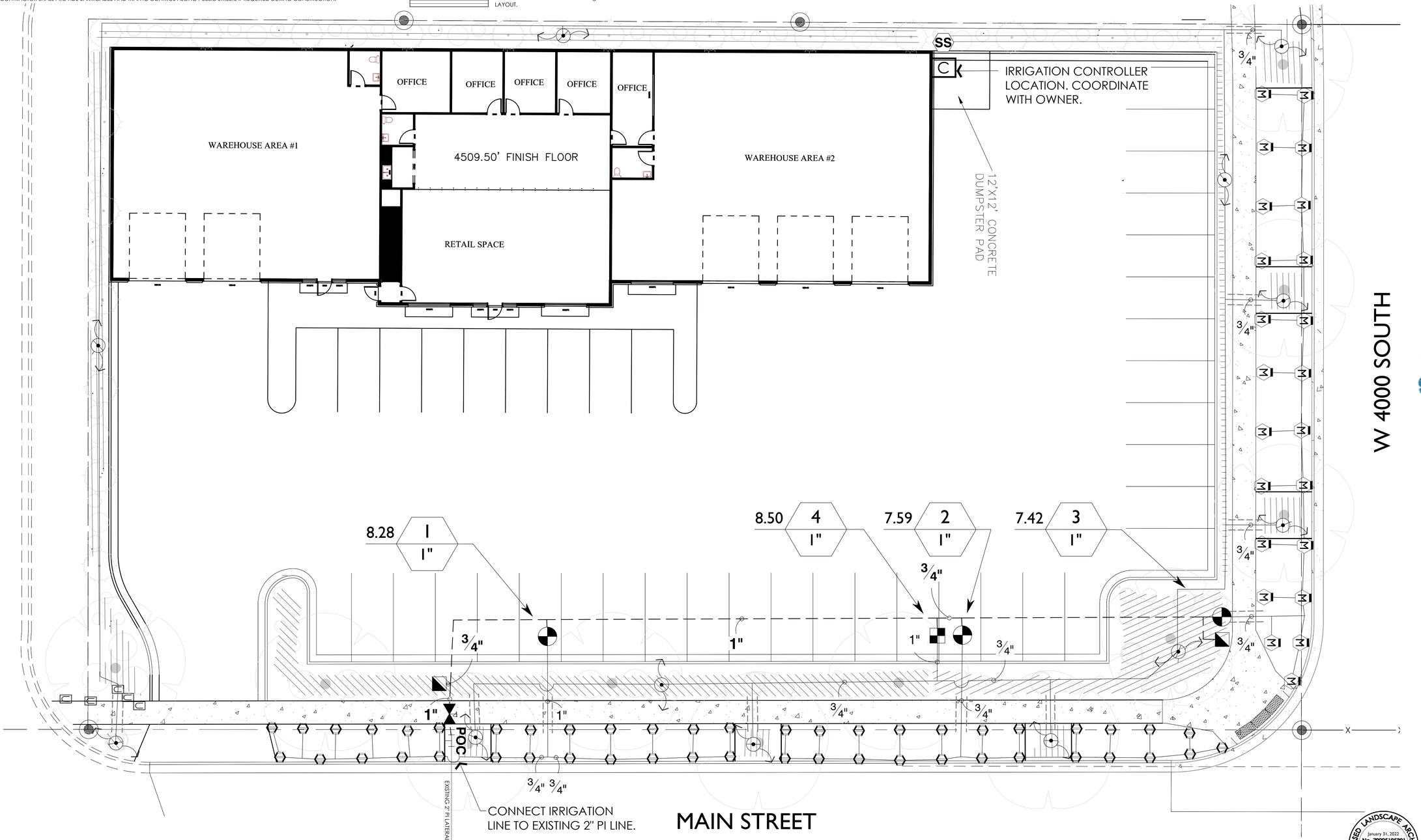
IRRIGATION SCHEDULE (CONTINUED)

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICZ-G-DC 1" 1", 1-1/2", 2", and 3" Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use, With DC Latching Solenoid Factory Installed Option.	3
	Hunter HQ-44LRC 1" Quick coupler valve, yellow rubber locking cover, red brass and stainless steel, with 1" NPT inlet, 2-piece body.	2
	Shut Off Valve	1
C	Hunter I2C-0800-PL 8 Station Outdoor Modular Controller, No Module Required. Commercial Use. Plastic Cabinet.	1
SS	Hunter Solar-Sync Solar, rain freeze sensor with outdoor interface, connects to Hunter PCC, Pro-C, and I-Core Controllers, install as noted. Includes 10 year lithium battery and rubber module cover, and gutter mount bracket. Wired.	1
POC	Point of Connection 2"	1

IRRIGATION SCHEDULE (CONTINUED)

	Irrigation Lateral Line: PVC Schedule 40 3/4"	1,481 l.f.
	Irrigation Lateral Line: PVC Schedule 40 1"	38.0 l.f.
	Irrigation Mainline: PVC Schedule 40 3/4"	76.0 l.f.
	Irrigation Mainline: PVC Schedule 40 1"	137.1 l.f.
	Pipe Sleeve: PVC Class 200 SDR 21	74.6 l.f.

Valve Callout
- # — Valve Number
- # — Valve Flow
- #" — Valve Size



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0' 10' 30' 1"=10' (24"X36") NORTH >

LICENSED LANDSCAPE ARCHITECT — January 31, 2022 — No. 7922519S301 — R. August Bateman — STATE OF UTAH

LIVE DESIGN
WWW.LIVEDSGN.COM

PROJECT NO: 210814
3380 NORTH MAIN STREET,
SPANISH FORK, UTAH

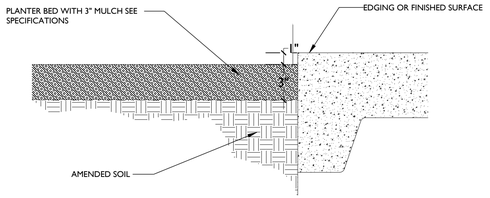
ACTIVE AUTO

ENG/ARCH:
DRAWN BY: RAB
REVIEWED BY: RAB

DATE: 31 Jan 2022

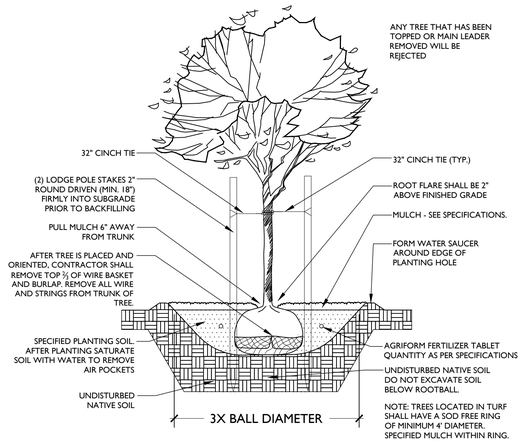
IRRIGATION PLAN

L-2.1



4 HARDSCAPE ADJACENT TO PLANTER

1 1/2" = 1'-0" P-CO-ACT-09

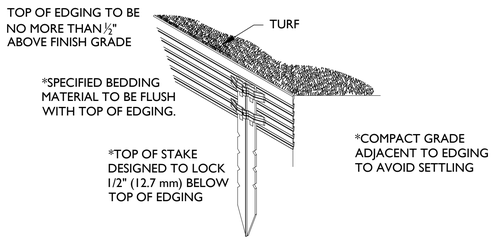


1 DECIDUOUS TREE PLANTING

3/8" = 1'-0" P-CO-ACT-01

sure-loc

SURE-LOC ALUMINUM EDGING
CORPORATION 494 EAST 64TH STREET
HOLLAND, MI 49423 TOLL FREE: (800)
787-3562 PHONE: (616) 392-3209 FAX:
(616) 392-5134 www.surelocedging.com

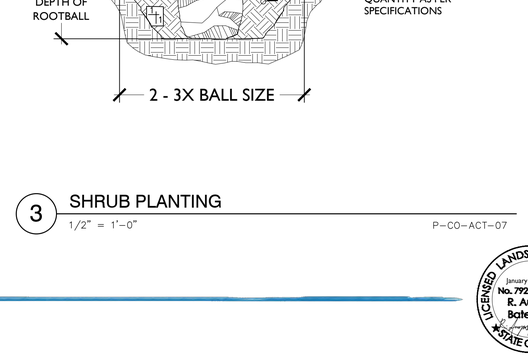


	PRODUCT	SIZE	PACKAGE
☑	SURE-LOC SUREEDGE	3/16" X 5 1/2"	10 PIECES (160 LINEAR FEET) PER BOX

NOTES:
1. BLACK ANODIZED FINISH IS REQUIRED.
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

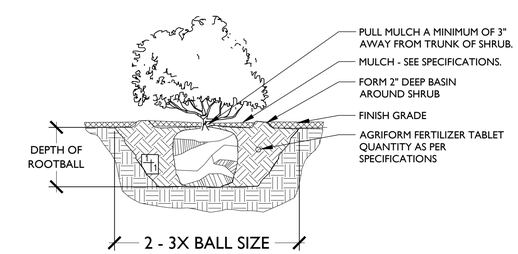
5 SURE-LOC ALUMINUM EDGING

1 1/2" = 1'-0" P-CO-ACT-14



2 EVERGREEN TREE PLANTING

3/8" = 1'-0" P-CO-ACT-02



3 SHRUB PLANTING

1/2" = 1'-0" P-CO-ACT-07

ATTENTION: PRIOR TO PERFORMING ANY WORK ON THIS PLAN CONTRACTOR SHALL IDENTIFY THROUGH BLUESTAKES AND ON-SITE OBSERVATION ANY AND ALL UTILITIES AND HAZARDS OR CONDITIONS THAT MAY PREVENT WORK FROM BEING PERFORMED ACCORDING TO THESE PLANS ABOVE OR BELOW GROUND. IF CONDITIONS ARE FOUND THAT MAY PREVENT WORK FROM BEING PERFORMED AS PER PLAN, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT PRIOR TO PROCEEDING. ANY DAMAGE TO UTILITIES SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY (I.E. ELECTRICAL, GAS, WATER,SEWER, ETC.). EVERY EFFORT HAS BEEN MADE TO ENSURE ACCURACY WITH THESE DRAWINGS. QUANTITIES (If and if) LISTED ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND QUANTITIES ON THESE PLANS. ARCHITECT SHALL NOT BE RESPONSIBLE FOR DISCREPANCIES BETWEEN QUANTITIES LISTED IN LEGENDS AND PLAN. WHERE DISCREPANCIES EXIST BETWEEN SPECIFICATIONS, DETAILS, AND/OR DRAWINGS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT PRIOR TO PROCEEDING. CONTRACTOR SHALL INSPECT THE SITE TO VERIFY THAT DRAWINGS ARE CONSISTENT WITH SURVEYED BASE INFORMATION. DURING CONSTRUCTION IF DISCREPANCIES ARE FOUND BETWEEN THESE PLANS AND THE SITE, CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.

LICENSED LANDSCAPE ARCHITECT
January 31, 2022
No. 7922519301
R. August Bateman
STATE OF UTAH

LIVE DESIGN
WWW.LIVEDSGN.COM

PROJECT NO: 210814
3380 NORTH MAIN STREET,
SPANISH FORK, UTAH

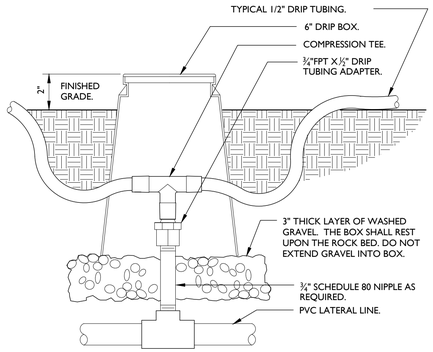
ACTIVE AUTO

ENG/ARCH:
DRAWN BY: RAB
REVIEWED BY: RAB

DATE: 31 Jan 2022

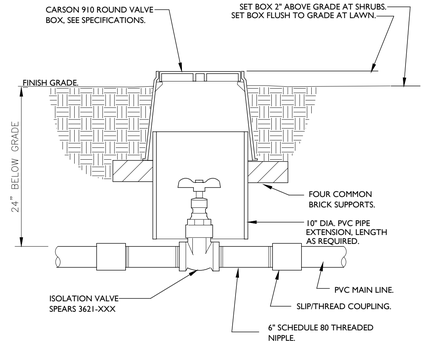
LANDSCAPE SITE DETAILS

L-5.1



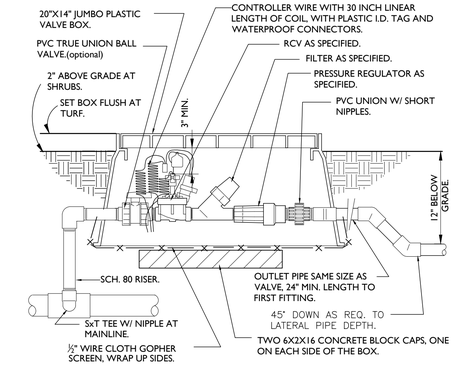
7 PIPE TRANSITION POINT

3" = 1'-0" P-CO-STU-10



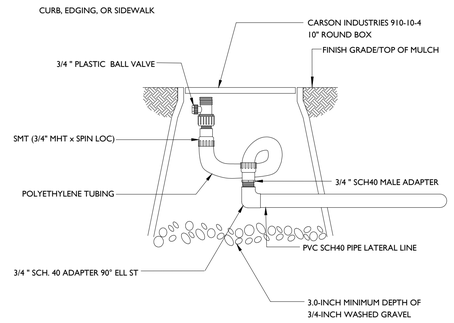
4 MANUAL ISOLATION VALVE

1 1/2" = 1'-0" P-CO-STU-10



1 REMOTE CONTROL IRRIGATION VALVE - DRIP

3/4" = 1'-0" P-CO-STU-10



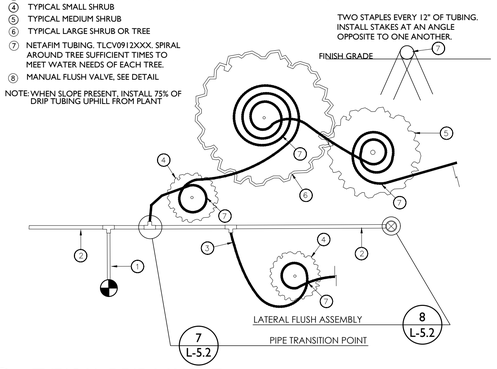
8 LATERAL FLUSH ASSEMBLY

3" = 1'-0" P-CO-STU-06

LEGEND

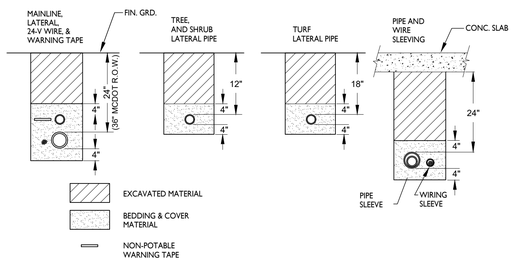
1. PVC SCHEDULE 40 SUPPLY LINE FROM ELECTRIC CONTROL DRIP VALVE ASSEMBLY
2. 3/4" POLY TUBING (LENGTH NOT TO EXCEED 250' AND/OR 8 GPM)
3. USE BLANK NETAFIM TUBING FOR SPACES GREATER THAN 3' BETWEEN SHRUBS
4. TYPICAL SMALL SHRUB
5. TYPICAL MEDIUM SHRUB
6. TYPICAL LARGE SHRUB OR TREE
7. NETAFIM TUBING. TLCV0912XXX. SPIRAL AROUND TREE SUFFICIENT TIMES TO MEET WATER NEEDS OF EACH TREE.
8. MANUAL FLUSH VALVE, SEE DETAIL

NOTE: WHEN SLOPE PRESENT, INSTALL 75% OF DRIP TUBING UPHILL FROM PLANT



5 TYPICAL DRIP LAYOUT

1/8" = 1'-0" P-CO-STU-10



NOTES:
SLEEVE ALL PIPE AND WIRE SEPARATELY.

ALL PIPE TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. "SNAKE" UNSLEEVED PLASTIC PIPE IN TRENCH. PROVIDE A MIN. OF 2" CLEARANCE TO SIDE OF TRENCH AND BETWEEN PIPES.

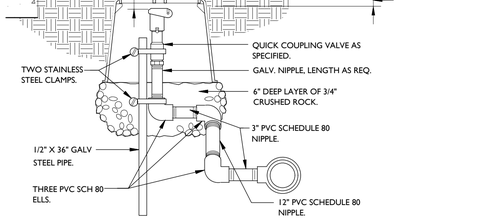
ALL 120-V WIRING SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS. TAPE AND BUNDLE 24-V WIRE EVERY 10' AND PROVIDE LOOSE 20" LOOP AT ALL CHANGES OF DIRECTION OVER 30 DEGREES.

ALL IRRIGATION MAINLINE WITHIN 5' FROM BACK OF CURB SHALL BE INSTALLED WITH A MINIMUM OF 36" DEPTH OF COVER (MCDOT RIGHT-OF-WAY).

LAY NON-POTABLE WARNING TAPE 6-INCHES ABOVE MAINLINE.

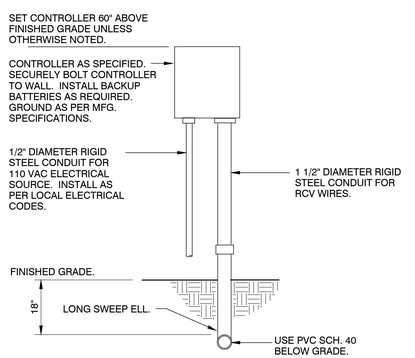
6 PIPE TRENCH LAYOUTS

1/2" = 1'-0" P-CO-STU-10



2 QUICK COUPLING VALVE IN BOX

1 1/2" = 1'-0" P-CO-STU-10



3 WALL MOUNT CONTROLLER

1" = 1'-0" P-CO-STU-10

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LIVE DESIGN
WWW.LIVEDSGN.COM

PROJECT NO: 210814
3380 NORTH MAIN STREET, SPANISH FORK, UTAH

ACTIVE AUTO

LICENSED LANDSCAPE ARCHITECT
January 31, 2022
No. 7922519301
R. August Bateman
STATE OF UTAH

ENG/ARCH:
DRAWN BY: RAB
REVIEWED BY: RAB

DATE: 31 Jan 2022

IRRIGATION DETAILS

L-5.2

SECTION 1 - PLANT MATERIAL
PART 1 - GENERAL

1.01 SCOPE OF WORK

A. Work as evident on drawings and specified herein or required to complete all landscaping and shall include, but not necessarily limited to the following work:

1. Furnish imported topsoil from outside sources as needed.(see sub-section 2.01.)

2. Ensure all necessary permits are obtained prior to construction and staging.

3. Excavate tree/shrub pits.

4. Provide and plant all materials indicated on plan and plant list.

5. Stake and protect all trees and planted areas as specified and detailed.

6. Clean all areas prior to Acceptance of the Work, including debris, stains, and dirt from walks and other surfaces.

B. These specifications are complimentary to the drawings.

C. Related Sections:

SECTION 2 - Turf Sod and Soil Preparation

1.02 QUALITY ASSURANCE

A. Regulatory Requirements

1. Comply with applicable requirements of Federal, State and Local laws, regulations and codes having jurisdiction at the project site.

Contractor shall be responsible for certificates of inspection of plant material that may be required by Federal and Local authorities to accompany shipments of plants.

Reference Standards

1. "Standardized Plant Name" by the American Joint Committee of Horticultural Nomenclature.

2. "American Standard of Nursery Stock" by the American Association of Nurseryman.

3. American National Standards Institute (ANSI); Publication Z60.1.

C. Substitutions

1. Substitutions of plant material will not be permitted unless authorized in writing by the Landscape Architect. If proof is submitted that any plant specified is not obtainable, a proposal will be considered for use of the nearest equivalent size or variety with corresponding adjustment of Contract Price. Such proof shall be substantiated and submitted in writing to the Landscape Architect at least thirty (30) days prior to start of the work under this Section. These provisions shall not relieve Contractor of the responsibility of obtaining specified materials in advance if special growing conditions or other arrangements must be made in order to supply specified materials.

Source Quality Control

1. Plants shall be subject to inspection and approval by the Landscape Architect/Owner at place of growth and upon delivery for conformity to specifications. Such approvals shall not impair the right of inspection and rejection during progress of the Work. Submit written request for inspection of plant material at place of growth or quantity of plants to be inspected. The Landscape Architect reserves the right to refuse inspection at this time if, in his judgement, a sufficient quantity of plants is not available for inspection.

2. All plants may be inspected at the nursery by the Landscape Architect or Owner and shall be tagged with self-locking tags. Plants delivered to the site without these tags or with broken tags shall be sufficient reason for rejection.

Contractor's Qualifications

1. All bidders shall be required to present proof of their qualifications, contract sample, Utah state licensure, insurance coverage, experience, and ability to perform the scope of work set forth in these specifications according to the following construction deadlines pending unforeseen delays related to the weather or other conditions outside the contractors control.

1.03 PROJECT PERSONNEL AND SITE PROTECTION

ATTENTION:

The Contractor shall have a designated foreman in direct and personal charge of the work, and the foreman shall be on the job at least eighty-five (85) percent of the working hours. The Owner's Authorized Representative may "shut down" the work under contract if the supervision is not, in his opinion, adequate to protect the interests of the Owner. Such "shut down" time to be counted as working days and will not extend the time of the contract.

All existing site elements including but not limited to the following shall be protected: All existing utilities, existing hardscapes (drives/curbs/walks/patios), etc. shall be protected from impact damage of any sort, staining from leaky trucks or equipment, or other damage.

1.04 PACKAGING, DELIVERY, STORAGE AND HANDLING

A. Plants shall be properly marked for identification and for checking. Each block of plants and at least 25% of each variety of separate plants in any one shipment shall have legible labels securely attached upon delivery to the site.

Product Handling:

During hot weather and when practical, the contractor may be required to transport plant materials between sunset and sunrise if transported in an open trailer or un-refrigerated box.

Dug material should be maintained and watered as required at the nursery to guarantee their vitality and health until shipping.

Protect all trunks, stems, branches, and root balls during tree tying, wrapping and loading operations from damage.

Load balls or containers onto transport vehicle and secure in a manner that protects the structural integrity of the root balls.

The contractor shall be solely responsible for the safe transportation of plants to the site and their condition upon arrival. Trees damaged, dehydrated or abused during transit or storage will be rejected.

Plant materials shall not be stored on concrete or asphalt or left exposed to the sun.

Roots and balls of plants shall be adequately protected at all times from the sun and drying winds.

The Landscape Architect may inspect any phase of this operation and may reject any plant material improperly handled during any phase of this operation.

Nothing in this Section shall be interpreted as relieving the contractor of the responsibility of providing healthy, viable plants, nor shall it have any effect upon the terms of the warranty specified herein.

Deliver packaged materials in containers showing weight, analysis and name of manufacturer. Protect materials from deterioration during delivery, and while stored at the site.

Delivery and plantings, storage of dry bulk materials and other shall be coordinated with project General Contractor to ensure appropriate staging area. Protect dry bulk materials from inclement weather conditions such as wind and moisture.

1.06 SUBMITTALS

A. Furnish two (1) copies of manufacturer's literature, plans, samples, certifications, delivery tickets, or laboratory analytical data for approval by the Landscape Architect prior to commencement of all work under this contract for the following items:

1. Specified granular and tablet Fertilizers (certification, rate of application and number to tablets per plant pit)
2. Weed control, Pre-emergent and anti-desiccant (certification)
3. Tree guys (literature)
4. Sodded Turf (literature and Delivery Ticket)
5. Lawn Edging (literature) See plan.
6. Stone Mulch (sample)

Submit proposed plant placement schedule to owner, indicating dates for each type of landscape work during normal seasons for such work in area of site. Once accepted, revise dates only as approved in writing, after documentation of reasons for delay.

1.07 PROJECT WARRANTY

A. Warranty trees and other plant materials, for a period of one year after date of substantial completion, against defects including death and unsatisfactory growth, except for defects resulting from neglect by Owner, abuse or damage by others, or unusual phenomena or incidents which are beyond Landscape Installer's control.

B. Remove and replace trees or other plants found to be dead or in unhealthy condition during warranty period. Replace trees or other plants that are in doubtful condition at end of warranty period; unless, in opinion of Architect, it is advisable to extend warranty period for a full growing season.

C. All replacements shall be plants of the same kind, size, and quality as originally specified and they shall be furnished, planted, guyed and maintained as specified at no additional cost.

D. Another inspection shall be conducted at end of extended warranty period to determine acceptance or rejection. Only one replacement (per tree or plant) will be required at end of warranty period, except for losses or replacements due to failure to comply with specified requirements.

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PART 2 - PRODUCTS

2.01 SOIL, SOIL AMMENDMENTS

A. Topsoil may or may not be stockpiled on site for contractor use.

Contractor shall ensure the following amount of topsoil is found in all planter and lawn areas over a non-compacted sub-grade

- Lawn Areas: 6 inch depth.
- Planter Areas: 12 inch depth.

Contractor shall have agronomy soils test performed or provide a soil certificate for proposed imported soil. Test results shall be submitted to Landscape Architect for approval prior to delivery of the topsoil to jobsite. Imported topsoil shall be obtained from well-drained arable land and shall be free from sub-soil, refuse, roots, heavy or stiff clay, stones 1 inch and larger in largest dimension, coarse sand, sticks, brush, litter, and other deleterious substances. Amend soil as needed to meet the ***'ideal'*** parameters in the chart below:

Soil Parameter	Acceptable	Ideal	Non Ideal - Possibly Toxic	Notes
pH	5.5-8.4	6.0-7.5	< 5.5[1] and > 8.5[2]	low pH corrected by addition of lime (lab can give amount needed); high pH difficult to correct--instead solve sodium problems if any and deal with fertility issues caused by high pH
EC, dS/m	< 2.5	< 1.0-1.5	> 4.0-6.0	lower salt content by leaching with good-quality water (solve sodium problems if any prior to leaching)
$CaCO_3$ (calcareousness), %	<10	<1	>30-80	difficult to correct; generally requires more phosphorous and some micronutrient fertilizers
SAR[3] (ESP)	< 8 (< 10)	< 4 (< 5)	> 11 (>15)	lower by addition of gypsum or similar (lab can give amounts needed)
OM, %	> 1.0	> 3.0	-- N/A --	
Sand %[4]	< 85%	< 75%	N/A	
Silt/Clay ratio	< 2 if total of two is 25-35% (ratio is not critical if outside this range)			
CEC[5]	>12	15-25	N/A	
color	all	red, brown, black (avoid gray & yellow)	N/A	
aggregate (5-20 mm) stability, not dispersed (cloudy)	>1 hour	> 2 hours	N/A	
Saturated Infiltration Rate (as measured after 3 full irrigations)	> 0.2 inch/hour	> 0.6 inch/hour	<0.1 inch/hour	difficult to correct; select different soil
Subsoil drainage rate	> 0.04 inch/hour	> 0.1 inch/hour	< 0.01 inch/hour	difficult to correct; select different soil
Bulk Density, g/cm^3	1.3-1.6	1.3-1.5	> 1.7-1.8	correct with tillage, but does not always correct problem permanently
NO_3-N^6, ppm	any	any	see EC	add fertilizer to meet plant needs
P - Bicarbonate, ppm	any	10-60 ppm	N/A	add fertilizer to meet plant needs; if P is high = environmental problems
P - Bray P1, ppm (only noncalcareous)	any	20-80 ppm	N/A	add fertilizer to meet plant needs; if P is high = environmental problems
P - Mehlich 3, ppm (only noncalcareous)	any	22-90 ppm	N/A	add fertilizer to meet plant needs; if P is high = environmental problems
K, ppm	150-300	> 300	N/A	add fertilizer to meet plant needs
Ca, ppm	> 300	> 500	N/A	add fertilizer to meet plant needs
Mg, ppm	>50	100-800	N/A	add fertilizer to meet plant needs
Na	see SAR (ESP)			
S', ppm	any	<200	see EC	add fertilizer to meet plant needs
Zn, ppm	> 1.0	< 1.0-5.0	> 1000	add fertilizer to meet plant needs if value is low; if too high then reject soil
Fe, ppm	> 4	> 6 (and pH < 7.2 or tolerant species)	Unlikely	add fertilizer to meet plant needs if value is low; if too high then reject soil
Mn, ppm	>6	> 8	> 807	add fertilizer to meet plant needs if value is low; if too high then reject soil
Cu, ppm	0.2-2.0	0.4-2.0	> 207	add fertilizer to meet plant needs if value is low; if too high then reject soil
B, ppm	0.8-2.0	1-2	>2.4	add fertilizer to meet plant needs if value is low; if too high leach B from soil
Cl, ppm	any	12-175	> 175-700	add fertilizer to meet plant needs if value is low; if too high leach Cl from soil
*Al, ppm	1.0-10	0	> 10-20	if high, raise soil pH to greater than 5.5 with lime (see pH)

2.02 PLANT MATERIALS

A. Plants shall be typical of their species and variety, have normal growth habits, well developed branches, dense foliage, vigorous, fibrous root systems.

Plants shall be free from defects and injuries. All shipments of plant stock shall comply with existing State and Federal laws and regulations governing plant disease and infection and interstate movement of nursery stock.

Quality and size of plants, spread of roots, and size of balls shall be in accordance with USA-Z60.1-1973, "American Standard for Nursery Stock" as published by the American Association of Nurserymen. The caliper of trees shall be measured six (6) inches above the surface of the ground. Plant lists indicate minimum size requirements only. Plant materials shall be equal to or greater in size than those specified.

Plants shall not be pruned before planting.

All trees must have straight trunks with single leader intact, except in the case of specimen plants or otherwise indicated by the plan. Bark shall be free of abrasion, all cuts over 1-1/4" shall have callused over.

Trees shall not be accepted which have had their leaders cut or which have leaders damaged so that cutting is necessary.

Trees and shrubs shall be true to name.

Upon request, Contractor shall furnish the landscape architect a list indicating the source of each of the different plants to be supplied.

All Plants shall be ball and burlap or container grown unless otherwise indicated on the Plant Material List.

All plants shall be even in growth with balanced root and top growth and shall be No.1 in grade or type conforming to the latest edition of American Standard for Nursery Stock.

Plant material shall be nursery grown and shall have received the proper fertilizing, watering, root pruning and such other care as is normally given for a particular plant under nursery conditions. All plants shall be hardy under climate conditions similar to those in the locality of the project.

All material shall be freshly dug according to American Standard for Nursery Stock. All ball and burlap material shall be of firm earth from the original soil in which the plant grew. The ball shall be wrapped with burlap and tightly tied or enclosed in a tight fitting wire basket to hold it firm and intact. Any plants with broken or loose balls or manufactured balls will be rejected.

All plant material in containers shall have been established in that container. Any newly potted material will be rejected.

2.03 FERTILIZER FOR PLANT MATERIAL

A. Fertilize trees and shrubs with a fertilizer tablet having a slow release nitrogen, phosphorus and potash (20-10-5) plus sulphur and iron formulation. 21 gram tablets manufactured by Agriform or equal. Jobe Tree Spikes are acceptable.
Execution: Position plant in hole and backfill by ⅓ the ball root height. Place tablet(s) beside the root ball about 1 inch from root tips. Do not place tablets in the bottom of the plant hole. Complete backfill, tamp and water.

- 1-2 Gallon Size: 1 Tablet
- 3-5 Gallon Size: 3 Tablets
- 15 Gallon Size: 7 Tablets
- 1.5" Caliper Trees: 6 Tablets
- 2" Caliper Trees: 8 Tablets
- 3" Caliper Trees: 12 Tablets

Any fertilizer that becomes caked or otherwise damaged, making it unsuitable for use will not be accepted.

2.04 ORGANIC/INORGANIC MULCH

Provide and place minimum three inch depth of medium stone mulch. Color shall be tan. Submit sample to owner for approval prior to bulk delivery. Install 5 oz. landscape weed barrier fabric under mulch with staples per manufacturer recommendations.

2.05 WEED CONTROL / PRE-EMERGENT

During construction, landscape contractor shall ensure all installed landscaped areas remain weed free. All spray applicated weed control shall be applied by a certified chemical applicator and shall adhere to all local and state governing codes and manufacturer's recommended application rates and processes. Contractor shall be aware of high wind conditions and shall in no case apply weed control during a wind event that may carry product beyond it's desired location.

Pre-Emergent weed killer shall be granulated and shall be "Treflan" or "Dacthal", or approved 12 month weed preventer.Product shall be delivered to the site in its original container, bearing the manufacturer's label and instructions for handling and application. Pre-Emergent shall be applied by landscape contractor following final topsoil grade and plant placement and prior to organic mulch placement. Care shall be taken to avoid spreading of Pre-Emergent on adjacent hardscapes and lawn areas. Ensure proper coverage as per manufacturer's recommendation.

PART 3 - EXECUTION

3.01 GENERAL

A. Before commencing Contractor shall become familiar with and obtain any necessary permits required for staging and performing work on the property according to Spanish Fork City or other governing ordinances.

B Proceed with and complete landscape work as rapidly as portions of site become available, working within seasonal limitations for each kind of landscape work required.

C. Plant or install materials during normal planting seasons for each type of landscape work required. Correlate planting with specified maintenance periods to provide maintenance from date of substantial completion for that portion of the work. Actual planting shall be performed only when weather and soil conditions are suitable and in accordance with locally accepted practice and as approved by the landscape architect.

D. Contractor shall be responsible to determine location of all underground utilities and perform work in a manner which will in all cases avoid possible damage. Hand excavate, as required. Low voltage and line voltage electrical lines may exist throughout the site as well as drain lines and sumps. Very all locations with General Contractor.

E. The Contractor is responsible for all damage to these utilities. In the event that damage to existing utilities is found, the owner shall coordinate the repair and labor to fix the work and shall back charge the contractor for these services.

F. Contractor shall only layout quantity of plantings that can be installed same day. Following layout of plantings as per plans and prior to planting, landscape architect shall inspect layout for approval and may adjust as necessary prior to installation. Landscape contractor shall notify landscape architect 48 hours in advance of plants being placed.

G. If underground construction, obstructions, or large rocks are encountered in excavation of planting areas, other locations for the planting may be selected by the landscape architect.

H. Plant totals are for convenience only and are not guaranteed. Verify amounts shown on drawings. All planting indicated on drawings is required unless indicated otherwise.

3.02 PREPARATION OF PLANTING BEDS

A. The Contractor shall furnish and spread topsoil on planting bed areas as required to meet lines, grades and elevations as needed, after light rolling and natural settlement. Finish grade of all planting bed areas shall be minimum of 4 inch below grade of any adjacent hardscape to allow for 3" depth of organic mulch.

B. Where possible, light equipment shall be utilized to deliver and spread topsoil to planter areas. Sub-grade or topsoil shall not be driven on, placed or spread when ground is muddy from precipitation. Allow ground to adequately dry to avoid compaction of sub-grade and topsoil.

C. Fine grade planting bed areas to smooth, even surface with loose, uniformly fine texture. Roll, rake and drag planting bed areas, remove ridges and fill depressions, as required to meet finish grades. Limit fine grading to areas which can be planted immediately after grading.

D. Beds shall be raked smooth and put in first class condition before final acceptance and placement of pre-emergent weed control and organic mulch.

3.03 EXCAVATION FOR PLANTING

Obstruction Below Ground: Do not plant any plant with a large obstruction directly below the root ball. In the event that rock or obstructions are encountered in any plant pit excavation, alternate locations may be selected by the Landscape Architect.

Drainage: In the event that impervious rock or hardpan is encountered during digging operations, in tree pits or shrub pits, it shall be the responsibility of the Landscape Contractor to ensure proper drainage in all pits. Minimum drainage requirements shall be the loss of water at the rate of 6" drop in water level per hour. All rock or hardpan encountered shall be disposed of from the site.

Holes for trees and shrubs shall be three times (3x) the ball diameter for trees and two to three times (2-3x) the ball diameter for shrubs as per planting details where possible. Subsoil excavated from tree and shrub pits may be used as backfill material for planting if it is free from sub-soil, refuse, roots, heavy or stiff clay, stones 1 inch and larger in largest dimension, coarse sand, sticks, brush, litter, and other deleterious substances.. Mix excavated soil by 50% volume with imported topsoil prior to backfilling.

Tree rings in lawn areas, if any, shall be circular in outline, with a diameter at least two (2) feet greater than the diameter of the ball of each plant to be planted and edged with specified edging.

Where turf areas are damaged by planting operations, they shall be replaced by equal quality turf by the Landscape Contractor at no cost to the Owner.

Remove debris, rock, and other deleterious material excavated from plants pits from the site.

3.04 SETTING AND BACKFILLING PLANTS

Placing Plants: Plants shall be set with the root ball at the same natural relationship as it had in the nursery. The top of the root ball should be 1-2" above the finished grade. Plants shall be handled by the root ball, not by the trunk or by the stems. Balls must be handled carefully and the trees must be skidded (not dropped) into the hole.

Place specified fertilizer tablets as specified.

Backfill shall be worked around the ball and tamped to eliminate air pockets. Water plants when the hole is two-thirds (2/3) full of backfill.

At this point, any tie wire, twine, burlap, grow bags, etc., tied or wrapped around the stem or plant ball shall be loosened and pulled away from the plant. The burlap on the ball shall be laid back from the top of the ball and any excess burlap and ties shall be cutoff and removed from the planting except where wire cage prohibits removal of burlap. Wire cage shall not be removed.

Soil treatment: A pre-emergent herbicide such as "Dacthal" or "Treflan", or an approved equal shall be delivered to the site in its original container, bearing the manufacturer's label and instructions for handling and application. All trees and shrubs are to receive pre-emergent.

All plants shall be watered and straightened the same day as planted. No holes will be left open over night.

Container grown plants shall have containers cut open and the plants carefully removed so that the earth around roots of plant remain unbroken. Plants shall then be planted in the same manner as ball plants.

Plant trees after final grades are established and prior to planting/placement of lawns, unless otherwise acceptable to landscape architect. If planting of trees occurs after lawn work, protect lawn areas and promptly repair damage to lawns resulting from planting operations.

All plant material must be watered the same day it is planted in order to comply with these specifications. Any plant not watered at the time of planting may be rejected at the option of the landscape architect.

As needed, the Contractor shall hand water newly planted trees twice a week for eight weeks with a minimum of five (5) gallons per tree per watering unless irrigation system is in place and provides adequate water.

All plant material shall be staked and guyed as shown on detail. The stakes will be driven after the tree has been set-in, but before backfilling begins so as to avoid damage to the roots. Any deviation will not be accepted.

3.05 PROTECTION AND CLEAN-UP

A. The Contractor shall remove at the end of each day: excess soil or other litter from roads or other hardscape surfaces (curbs/gutters, walks, driveways, stone patios, steps, walls, decks etc.) and other waste material. All planting sites shall be left in a condition acceptable to the landscape architect. If any remedial action is necessary by the landscape architect, the cost of such action ($50.00 minimum) shall be withheld from payment due the Contractor. Delays in clean-up caused by weather conditions are to be reported to the landscape architect on the day such delays occur, together with and estimate of when clean-up can be affected..

3.06 INSPECTION AND ACCEPTANCE

A. When landscape work is completed, including maintenance, landscape architect may, upon request, make an inspection to determine acceptability.

B. When inspected landscape work does not comply with requirements, replace rejected work and continue specified maintenance until re-inspected by Landscape Architect and found to be acceptable. Remove rejected plants and materials promptly from the project site.

C. Final acceptance shall require that the site be clean and free of any signs of construction in progress. All hardscape areas shall be in like new condition including public streets adjacent to the property that were affected by the construction process.

SECTION 2 - TURF SOD AND SOIL PREPARATION
PART 1 - GENERAL

1.01 SCOPE OF WORK

The Work under this Section shall consist of furnishing all labor, materials and incidentals needed to install topsoil and turf grass in accordance with these Specifications.

1.02 QUALITY ASSURANCE

A. Comply with federal, state and local laws requiring inspection for plant disease and infestations. Inspection certificates required by state law shall accompany each shipment and be delivered to the Construction Project Representative.

Personnel: Employ only qualified personnel familiar with required work.

1.03 SUBMITTALS

Product Data: The Contractor shall submit as part of the project submittal package, two (2) complete sets of the supplier's guaranteed statement of:

1. Composition, mixture, percentage of purity and germination for variety of sod, specified herein for approval by the landscape architect.
2. Certificate of lawn fertilizer.
3. Laboratory analytical data of imported topsoil (if required)

PART 2 - PRODUCTS

2.01 TOPSOIL

A. Contractor will be responsible for placement and amendment of topsoil. Contractor shall use existing on-site topsoil and shall provide imported topsoil as needed.

Contractor shall ensure the following amount of topsoil is found in all lawn areas over a non-compacted sub-grade

- Lawn Areas: 6 inch depth.

Contractor shall have agronomy soils test performed on any proposed imported soil. Test results shall be submitted to Landscape Architect for approval prior to delivery of the topsoil to jobsite. Imported topsoil shall be obtained from well-drained arable land and shall be free from sub-soil, refuse, roots, heavy or stiff clay, stones 2" inch and larger, in largest dimension, coarse sand, sticks, brush, litter, and other deleterious substances. *See soil requirements in Section 1, Part 2.01.*

2.02 LAWN

Contractor to recommend a drought tolerant bluegrass blend to landscape architect for approval prior to commencement of all work under this contract. Provide sod of uniform pad sizes with maximum 5% deviation in either length or width. Broken pads or pads with uneven ends will not be acceptable. Sod pads incapable of supporting their own height when suspended vertically with a firm grasp on upper 10% of pad will be rejected.

A full and healthy stand of grass shall be actively growing.

Each grass type shall only come from one (1) farm location. If additional sources for each grass type is needed due to availability from original source, contractor shall submit proof (soils analysis) that the farm has similar soil type for growing sod).

Sod shall be farm-grown on a sand base soil type. (No Clay loam soil sources shall mix with sandy loam soil sources).

If the sod for each grass type comes from more than one location, during the submittal phase, the contractor shall submit a map or diagram of the project site to the Landscape Architect proposing where the sod sources will be installed on site; grouping the same sod sources together.

2.03 FERTILIZER

A Fertilizer shall be a complete mixture, analyzing sixteen (16)% Nitrogen; sixteen (16)% Phosphoric Acid; and eight (8)% Pot Ash, of commercial type and applied at a rate of six (6) pounds per thousand (1000) square feet of area.

PART 3 - EXECUTION

3.01 PREPARATION OF SOILS

Report any unusual subsoil condition (ie. roadbase, rocks, etc.) that will require special treatment to the landscape architect.

Where possible, light equipment shall be utilized to deliver and spread topsoil to lawn areas. Sub-grade or topsoil shall not be driven on, placed or spread when ground is muddy from precipitation. Allow ground to adequately dry to avoid compaction of sub-grade and topsoil.

Limit preparation to areas that will be planted promptly after preparation.

Surface drainage shall be ensured and, if shown, shall be directed in the manner indicated on the drawings. Fill low spots and pockets with topsoil and grade to drain properly.

The Contractor shall ensure 6 inches of topsoil in sodded areas or as required to meet lines, grades and elevations shown, after light rolling and natural settlement.

Finish grading shall consist of loosening sub-grade and placing soil, as specified. Bring areas to uniform grade by floating or hand raking. Make minor adjustments of finish grades at the direction of Landscape Architect.

All rocks half inch and larger and non-conforming foreign matter such as building rubble,concrete, wire, cans, sticks, etc., shall be removed from topsoil during finish grading.

Fine grade lawn areas to smooth, even surface with loose, uniformly fine texture. Roll, rake and drag lawn areas, remove ridges and fill depressions, as required to meet finish grades. Limit fine grading to areas which can be planted immediately after grading.

Allow for sod root mass and blade height thickness in areas to be sodded.

Moisten prepared lawn areas before planting if soil is dry. Water thoroughly and allow surface moisture to dry before planting lawn. Do not create a muddy soil condition.

Restore lawn areas to specified condition if eroded or otherwise disturbed after fine grading and prior to planting.

The topsoil shall be placed, water settled, re-graded, and brought to finish grades at a compaction rate of 80% to 85% optimum moisture content. Add additional topsoil as needed to insure minimum depth requirement.

3.02 SOD INSTALLATION

Sod shall be laid within 24 hours from the time of stripping. Dormant sod shall not be used nor shall sod be laid if ground is frozen.

Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips; do not overlap. Stagger strips to offset joints in adjacent courses. Work from boards to avoid damage to subgrade or sod. Tamp or lightly roll to ensure contact with subgrade. Work sifted soil into minor cracks between pieces of sod; remove excess material from sodden areas to prevent smothering.

Thoroughly water sod with a spray immediately after planting to saturate the sodden area to a depth of four inches.

No sodding shall be done immediately after a rain storm or if a prepared surface has been compacted without first loosening the surface to a smooth, loose, uniformly fine texture just prior to sodding.

3.03 CARE AFTER SOD INSTALLATION

After application, the Contractor shall not operate equipment or walk over the covered area.

The Contractor shall determine routine watering schedules according to soil conditions. Contractor shall physically inspect soil moisture for the first week to ensure proper water is being applied. Baseline irrigation controller and moisture sensors shall be utilized to ensure ongoing, long term water management. (See irrigation plans, specs and details).

Keep all areas moist. During the first 10 days, it may be necessary to irrigate several times per day to prevent dry-out. Evenly water, but prevent runoff.

Neatly trim all edges and hand clip where necessary.

Application of herbicides for weed control in accordance with manufacturer's instructions. Remedy damage resulting from use of herbicides.

Immediately replace sod in areas which show deterioration, brown or bare spots.

3.04 INSPECTION

A. Pre-Inspection Walk-Through

1. Notify landscape architect 48 hours in advance to schedule pre-inspection.
2. Work of this section shall be completely installed prior to scheduling of walk-through.
3. Generate a "punch list" of items to be corrected, prior to Final Inspection for Substantial Completion.
4. Furnish all required material and equipment and perform all work required to correct deficiencies.

B. Inspection For Substantial Completion

1. Contact landscape architect 48 hours in advance to schedule inspection.
2. Items deemed not acceptable by landscape architect shall be re-worked to the complete satisfaction of the landscape architect.

3.05 TURF WARRANTY AND MAINTENANCE

The Contractor shall warrant that the turf grasses installed under the work of this section, shall be in a healthy and flourishing condition at Substantial Completion and specified maintenance period for sod.

Sodden turf areas shall exhibit a vibrant green color with no bare spots. Turf grass area(s) shall be free of dead or dying patches associated with disease, and free of weeds, rock or other debris.

The Contractor shall replace any dead or dying materials that are not in a vigorous, thriving condition, weather permitting, upon notification of the landscape architect. The Contractor shall replace material with the same species, variety, color and size as originally installed at no cost to owner. Contractor will not be held responsible to replace any dead or dying turf grass associated with improper maintenance of irrigation system by owner, vandalism or unusual weather phenomena after maintenance period.

3.06 EROSION CONTROL PROTECTION

Temporary erosion control Best Management Practices (BMP'S) shall be utilized where the potential for erosion may occur. BMP's may include but are not limited to the following: silt fencing, fiber rolls or wattles, erosion control blankets or other means may be needed to ensure proper soil stability during and after construction and until the slopes have been established by the re-vegetation process. Installation of erosion control materials shall be installed as per the manufacturer's recommendation for the existing site conditions.

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PROJECT NO: 210814
3380 NORTH MAIN STREET,
SPANISH FORK, UTAH

ACTIVE AUTO

ATTENTION: PRIOR TO PERFORMING ANY WORK ON THIS PLAN CONTRACTOR SHALL IDENTIFY THROUGH BLUESTAKES AND ON-SITE OBSERVATION ANY AND ALL UTILITIES AND HAZARDS OR CONDITIONS THAT MAY PREVENT WORK FROM BEING PERFORMED ACCORDING TO THESE PLANS ABOVE OR BELOW GROUND. IF CONDITIONS ARE FOUND THAT MAY PREVENT WORK FROM BEING PERFORMED AS PER PLAN, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT PRIOR TO PROCEEDING. ANY DAMAGE TO UTILITIES SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY (I.E. ELECTRICAL, GAS, WATER,SEWER, ETC.). EVERY EFFORT HAS BEEN MADE TO ENSURE ACCURACY WITH THESE DRAWINGS, QUANTITIES (if and sf) LISTED ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND QUANTITIES ON THESE PLANS. ARCHITECT SHALL NOT BE RESPONSIBLE FOR DISCREPANCIES BETWEEN QUANTITIES LISTED IN LEGENDS AND PLAN. WHERE DISCREPANCIES EXIST BETWEEN SPECIFICATIONS, DETAILS, AND/OR DRAWINGS, CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT PRIOR TO PROCEEDING. CONTRACTOR SHALL INSPECT THE SITE TO VERIFY THAT DRAWINGS ARE CONSISTENT WITH SURVEYED BASE INFORMATION. DURING CONSTRUCTION IF DISCREPANCIES ARE FOUND BETWEEN THESE PLANS AND THE SITE, CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT PRIOR TO PROCEEDING.

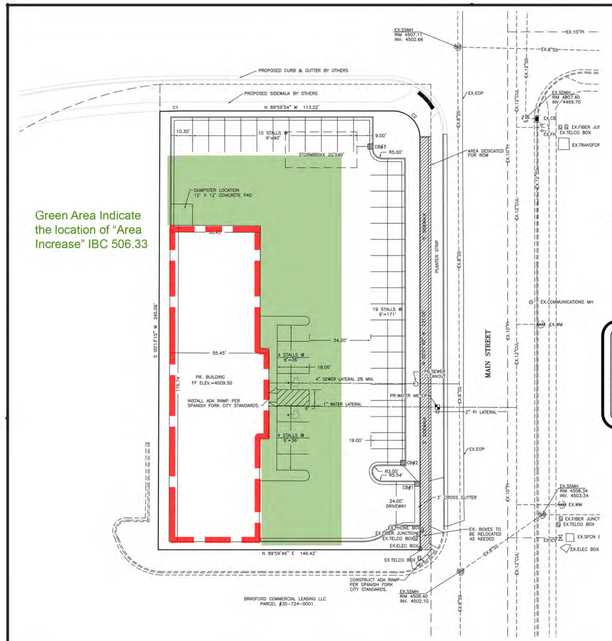
LICENSED LANDSCAPE ARCHITECT
January 31, 2022
No. 7922519530
R. August Bateman
STATE OF UTAH

ENG/ARCH:
DRAWN BY: RAB
REVIEWED BY: RAB

DATE: 31 Jan 2022

LANDSCAPE SPECIFICATIONS

L-6.0



Green Area Indicate the location of "Area Increase" IBC 506.33

N

SCALE 0' 20' 40' 60'

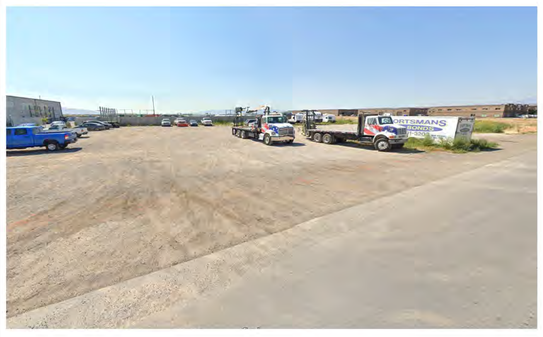
Address Identification- On the structure, place a legible street address. Address sign shall be positioned so that it is visible from the street fronting the property. Address identification characters shall contrast with their background. Numbers shall not be spelled out. Each character shall be a minimum of 4 inches high with a minimum stroke width of ½ inch. The address of this building is Noted on this sheet under "Project Inifromation" "Project Location". (IBC 501.2)

Site Plan- This site plan is provided for reference purposes only. For complete information go to the Civil Engineering plans.

LUDLOW ENGINEERING & ASSOCIATES
Subdivisions * Boundary Surveys * City Lot Surveys * ALTA Surveys
Claim Surveys * Control Networks * Construction Surveys * Topography
Civil * Sewer & Water Design * Residential & Commercial Structure
Subdivision Design * Site Plans * Road Design
1451 South Main, Nephi, Utah 84648 (435) 623-0897 FAX (435) 623-2381

"Area Increase" IBC 506.33 Formula 5-5
[226/462-.25]w/30
.489-.25]1 = .24 X 9,000 = 2,160
2,160 + 9,000 = 11,160
11,160 is the total area allowed with increase

Site Plan



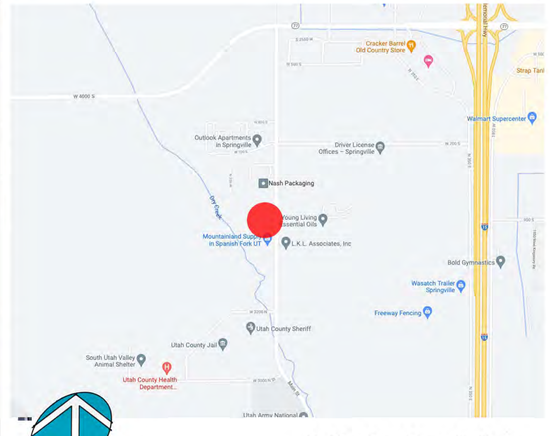
Street View



Site Area



High Overhead View



Vicinity Map

Code Analysis

Use and classification- (IBC Chapter 3)
"B"" Business
"S-1" Storage
"M" Mercantile

Building **IS NOT** Sprinkled

Most Restrictive Use- "S-1" (IBC Chapter 5)

Type of Construction- VB (IBC Chapter 5)

Area and Height (Base Code Requirements)
Height 40 Feet
Stories S-1 (1 Story), B (2 Stories)
Area 11,160 Square Feet (With Increase)

Area and Height with Modifications- See Site

Proposed Building Heights and Areas-

Height 32 Feet
Stories 2- B area in the center
Area (Main) 9,427 Square Feet
Area (2nd floor) 2,923 Square Feet

The building's area, stories and height are within all IBC Code perimeters.

Table 601
Fire-Resistance Rating Requirments for Building Elements (hours)

BUILDING ELEMENT	VB
Primary structural frame[g] (see Section 202)	0
Bearing walls Exterior[f, g] Interior	0 0
Nonbearing walls and partitions Exterior	0
Nonbearing walls and partitions Interior[e]	0
Floor construction and secondary members (see Section 202)	0
Roof construction and secondary members (see Section 202)	0

Areas and Exits Requirements
See sheet "A1.2"

Occupant load calculations
See sheet "A1.2"

Restroom requirements-
See sheet See sheet "A1.2"

Deferred Submittal
NFRC certificate at final for store-front type glass. (to be done by other than door/window supplier)

Project Information

Project Name-
Activ Auto

Project Location-
3380 North Main Street
Spanish Fork, Utah

Architect-
Terry Judd
Architettura Inc.
1602 West 1000 North
Provo, Utah 84604
Mobile # 801-310-7031
e-mail- terrydjudd@gmail.com
(Utah License- #268685-0301)

Civil Engineer-
J Brett Ludlow
Ludlow Engineering and Associates
1451 South Main Street
Nephi, Utah 84648
Office # 435-623-0897
(Utah License- #4776536-2203)

Sheet Index

Architectural
A1.1 Project Information and Code Review
A1.2 Exiting Plan, Occupant Loads, Restrooms
A1.3 Doors Infomration and Details
A1.4 Reach Zone Information Sheet
A1.5 Restroom Information Sheet
A1.6 Stair and Guard Details
A1.7 Site Information and Details
A1.8 General Notes

A2.1 Foundation and footing Layout Plan

A3.1 Main Floor Plan
A3.2 Second Floor Plan
A3.3 NOT USED
A3.4 Roof Plan

A4.1 Exterior Elevations/Typical Wall Section
A4.2 Exterior Elevations
A4.3 Building Section
A4.4 Building Section

A5.1 Details
A5.2 Details
A5.3 Details

Project Review

Project Description- This is a new building. The building is a prefab metal building (Type VB). The use of the building is as a professional business office, shop area and warehouse. There is an area for retail sales.

Current Building Codes

2018 (IBC) International Building Code
2018 (EIBC)Existing International Building Code
2017 (NEC)National Electric Code
2018 (IPC)International Plumbing Code
2018 (IMC)International Mechanical Code
2018 (IECC)International Energy Conservation Code
2018 (IFGC)International Fuel Gas Code
ANSI 117.1 2009 ADA *accessibility guidelines*

Architettura
Terry Judd Architect
801-310-7031
terrydjudd@gmail.com
Utah
Hawaii
California
Architettura Inc. is a Utah Corporation.

LICENSED ARCHITECT Terry Dean Judd 268685 STATE OF UTAH

July 12, 2021

PROJECT
Activ Auto
3380 North Main Street
Spanish Fork
Utah

ACTIV AUTO

Job Number- 27-06-21

A1.1

Cover Sheet, Code Review, Project Information

Area 1- Size, Use and Occupancy Classification

Office Area- 225 square feet
Warehouse Area- 2,405 square feet

Total Area 3,694 square feet

Factors Used To Determine Occupant Loading-
(IBC Table 1004.1.2)

Office Business 150 Square Feet per Person
Warehouse 500 Square Feet per Person

Business Area- 225/150 = 2 People
Warehouse Area- 2,405/500 = 5 People

Total Occupants 5

Required Exits- 2 (two) Provided Exits- 2 (two) (2 exits required due to distance to exit)

Area 1- Plumbing Fixture Requirements (IBC Table 2902.1)

Occupant Load-5 people

1 Single Use Restrooms Required

Drinking Fountains are Not Required
Service Sink not required

Area 2,3- Size, Use and Occupancy Classification

Main Floor
Office Area- 861 square feet
Mercantile 2,132 square feet
Shop Area (S-1) 2,740 square feet

Total Area 5,733 square feet

Factors Used To Determine Occupant Loading-
(IBC Table 1004.1.2)

Office Business 150 Square Feet per Person
Mercantile 60 Square Feet per Person
Shot 300 Square Feet per Person

Business Area- 861/150 = 5 People
Mercantile- 2,132/60 = 35 People
Shop- 2,740/300 = 9 People

Total Occupants 49

Required Exits- 2 (two) Provided Exits- 4 (four)

.Second Floor (Area 4)
Office Area- 2,923 square feet
Total Area 2,923 square feet

Factors Used To Determine Occupant Loading-
(IBC Table 1004.1.2)

Office Business 150 Square Feet per Person

Business Area- 2,923/150 = 19 People

Total Occupants 19

Required Exits- 2 (two) Provided Exits- 2(two) (2 exits required due to distance to exit)

Total Occupants both floors- 68

Building square footage- Main Floor- 9,427-- Upper Floor- 2,923

Total Building square footage- 12,350

Areas 2, 3, and 4 - Plumbing Fixture Requirements (IBC Table 2902.1)

Occupant Load-68 people

2 Single Use Restrooms Required

Drinking Fountains are Required
Service Sink is provided in shop space

FE **Fire Extinguishers-** Provide one 2-A:10 BC Rated Fire Extinguisher for every 3000 square feet of floor area with a maximum travel distance of 75 feet to an extinguisher. Fire extinguishers may not extend more than 4 inches over the walking surfaces (IBC 1003.3.2)



Second Level Plan



Main Level Plan

Architettura
Terry Judd Architect
801-310-7031
terrydjudd@gmail.com
Utah
Hawaii
California
Architettura Inc. is a Utah Corporation.

LICENSED ARCHITECT Terry Dean Judd 168685 STATE OF UTAH

July 12, 2021

PROJECT

Activ Auto
3380 North Main Street
Spanish Fork
Utah

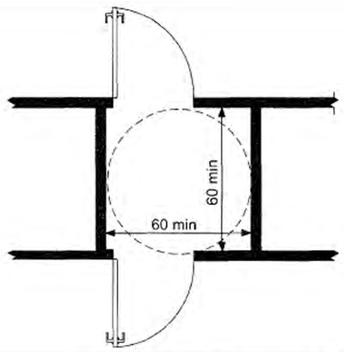
ACTIV AUTO

Job Number- 27-06-21

A1.2

Scale 1"= 10'

Exiting Plan and Occupant Loading



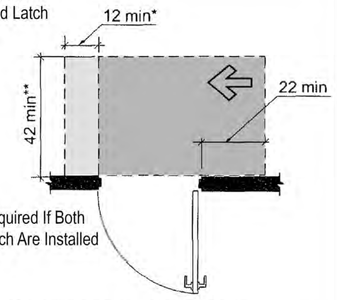
Two Door In a Series (A) | 17



Door Hardware- Handles, pulls, latches, locks, and other operable parts on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, pinching, or twisting of the wrist to operate. Operable parts of
such hardware shall be 34 inches minimum and 48 inches maximum above the
floor. Where sliding doors are in the fully open position, operating hardware shall be exposed and usable from both sides.404.2.6. EXCEPTION- Locks used only for security purposes and not used for normal operation shall not be required to comply with Section 404.2.6.

Door Hardware | 13

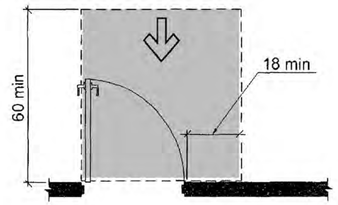
*12" Clear Required If Both Closer and Latch Are Installed



**48" Clear Required If Both Closer and Latch Are Installed

Parallel Hinge Approach- Push Side

(e) Required Clearances Push Side | 9



Front/Forward Approach, Pull Side

(a) Required Clearances Pull Side | 5

Door Operations- Egress doors shall be readily operable from the egress side without the use of a key or special knowledge or effort- IBC 1008.1.5

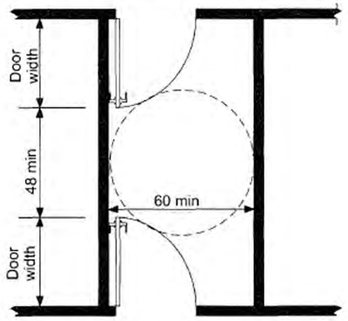
Door Openings- Accessible door must provide a 32 inch clear opening measured with the door open 90 degrees. If doors swing into a room or compartment there must be a 30 inch by 48 inch clear floor space within the room that is clear of the swing of the door.

Unlatching- The unlatching of any door or leaf shall not require more than one operation- IBC 1008.1.8.5

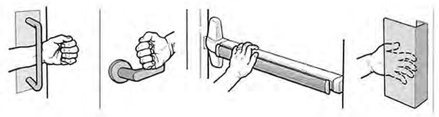
Locks on the Main Entry Door(s)- Locks are permitted on the main entry egress doors if those doors are to remain unlocked when the building is occupied. Adjacent to those doors is to be a durable sign posted on the egress side that states- (IBC 1008.1.3(2.2)

THIS DOOR TO REMAIN UNLOCKED
WHEN THE BUILDING IS OCCUPIED

Door Codes | 1

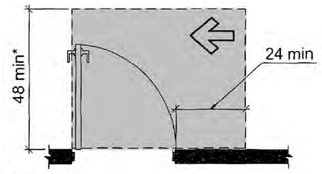


Two Door In a Series (B) | 18



Door Handles- All accessible handles shall have a shape that is easy to grasp with one hand and does not require tight grasping, pinching, or twisting of the wrist to operate.

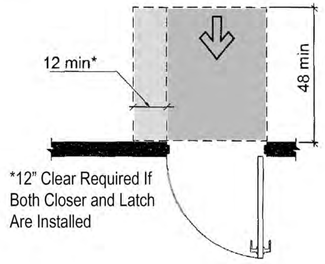
Acceptable Door Handles | 14



*54" Clear Required If Closer is Installed

Parallel/Latch Approach- Pull Side

(f) Required Clearances Pull Side | 10



*12" Clear Required If Both Closer and Latch Are Installed

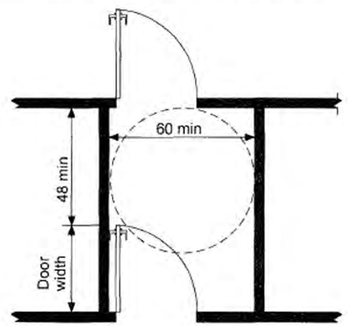
Front/Forward Approach, Push Side

(b) Required Clearances Push Side | 6

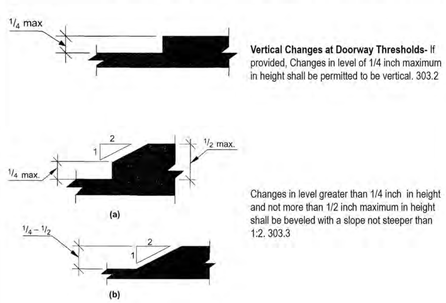
Exit Signs- When required, Exit Signs (or directional signs) to be installed at every exit door, at the intersection of corridors, at exit stairways or ramps and at such other locations and intervals as are necessary to provide the occupants with knowledge of the various means of egress available. In cases where the exit or the path of the egress travel is not immediately visible to the occupants a exit directional sign is to be installed. Exit sign placement shall be such that at not point in a corridor there is more than 100 feet without a exit directional sign. All exit sign shall meet the codes for illumination , power source and graphics. IBC 1011.1



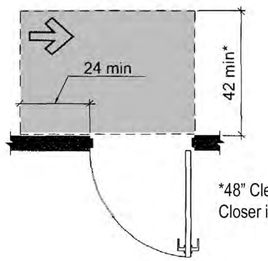
Exit Signs and Codes | 2



Two Door In a Series (C) | 19



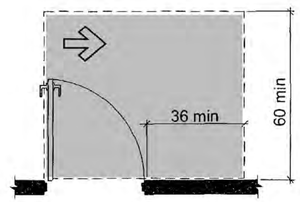
Thresholds Heights | 15



*48" Clear Required If Closer is Installed

Parallel/Latch Approach- Push Side

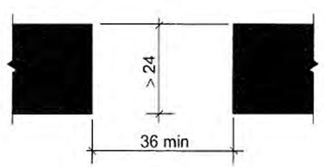
(g) Required Clearances Push Side | 11



Parallel/Hinge Approach- Pull Side

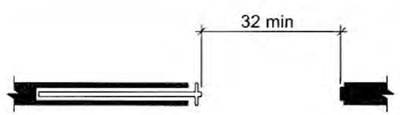
(c) Required Clearances Pull Side | 7

3



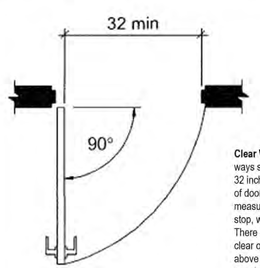
Clear Width at Deep Openings- Openings more than 24 inches in depth at doors and doorways without doors shall provide a clear opening width of 36 inches minimum. There shall be no projections into the clear opening width lower than 34 inches above the floor. Projections into the clear opening width between 34 inches and 80 inches above the floor shall not exceed 4 inches.

(d) Clear Width at Deep Openings | 20



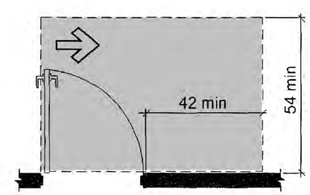
Clear Width Sliding Doors- Doorways width pocket sliding door, barn doors or surface mounted sliding doors hall have a clear opening width of 32 inches minimum. There shall be no projections into the clear opening width lower than 34 inches above the floor. Projections into the clear opening width between 34 inches and 80 inches above the floor shall not exceed 4 inches.

(b) Clear Width at Sliding Doors | 16



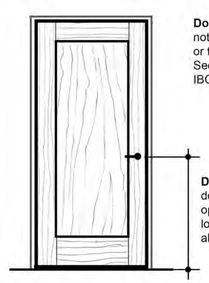
Clear Width at Swinging Doors- Doorways shall have a clear opening width of 32 inches minimum. Clear opening width of doorways with swinging doors shall be measured between the face of door and stop, with the door open 90 degrees. There shall be no projections into the clear opening width lower than 34 inches above the floor. Projections into the clear opening width between 34 inches and 80 inches above the floor shall not exceed 4 inches.

(a) Clear Width at Hinged Doors | 12



Parallel/Hinge Approach- Pull Side

(d) Required Clearances Pull Side | 8



Door Handles- All door handles shall not require pinching, tight grasping, or twisting of the wrist to operate. See examples this sheet. IBC 1010.1.9.1.

Door Hardware Height- All locks, door handles, pulls, latches, or other operating hardware is required to be located between **36 and 48 inches** above finished floor. IBC 1010.1.9.2.

Door Handle Height | 4

Architettura

Terry Judd Architect

801-310-7031

terryjudd@gmail.com

Utah
Hawaii
California

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LICENSED ARCHITECT Terry Dean Judd 258685 STATE OF UTAH

July 12, 2021

PROJECT

Activ Auto
3380 North Main Street
Spanish Fork
Utah

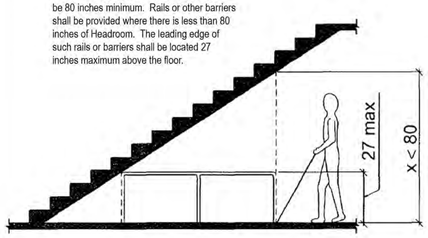
ACTIV AUTO

Job Number- 27-06-21

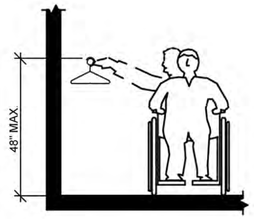
A1.3

Doors and Exiting

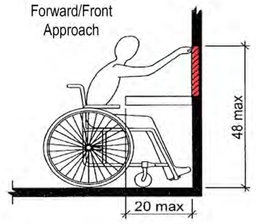
Vertical Clearance- Vertical clearance shall be 80 inches minimum. Rails or other barriers shall be provided where there is less than 80 inches of Headroom. The leading edge of such rails or barriers shall be located 27 inches maximum above the floor.



17 — Reduced Vertical Clearance *(307.4 ICC A117.1-2009)* — 13

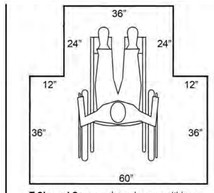


Clothes Closet Reach Zone — 9

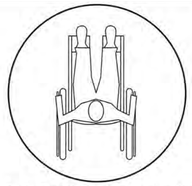


Obstructed High Reach- Where a high forward/front reach is over an obstruction, the clear floor space (see detail #2 this sheet) shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48 inches maximum above the floor where the reach depth is 20 inches maximum.

Obstructed Forward/Front High Reach Zone *(308.2.2 (a) ICC A117.1-2009)* — 5



T-Shaped Space- -shaped space within a 60-inch minimum square, with arms and base 36 inches minimum in width. Each arm of the T shall be clear of obstructions 12 inches minimum in each direction, and the base shall be clear of obstructions 24 inches minimum. Changes in level steeper than 1:48 are not permitted within the turning space. The turning space shall be permitted to include knee and toe clearances (See Detail X This sheet) complying with Section 306 only at the end of either the base or one arm.

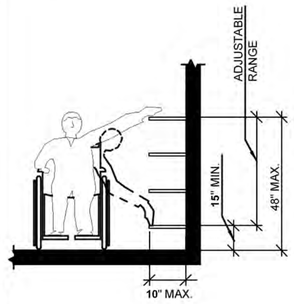


Turning Space Circle- The turning space shall be a circular space with a 60-inch minimum. Changes in level steeper than 1:48 are not permitted within the turning space. The turning space shall be permitted to include knee and toe clearances (See Detail X This sheet).

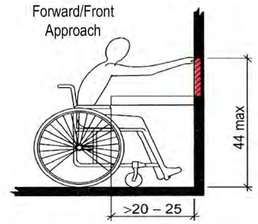
Scale 1/2" = 1'-0"

Code Requirements For Turning Space *(304.3 ICC A117.1-2009)* — 1

18 — 14

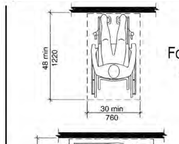


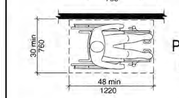
Shelves Reach Zone — 10

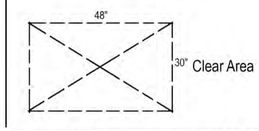


Obstructed High Reach- Where a high forward/front reach is over an obstruction, the clear floor space (see detail #2 this sheet) shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 44 inches maximum above the floor where the reach depth is 25 inches maximum.

Obstructed Forward/Front High Reach Zone *(308.2.2 (b) ICC A117.1-2009)* — 6







Clear Floor Space- The clear floor space shall be 48 inches minimum in length and 30 inches minimum in width. Changes in level not steeper than 1:48 shall be permitted.

Scale 1/2" = 1'-0"

Code Requirements For A 30 X 48 Inch Clear Area *(305 ICC A117.1-2009)* — 2

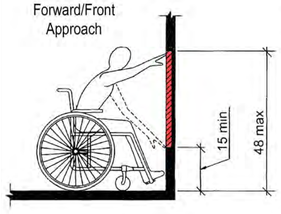
19 — 15



FIG. 302.2
CARPET ON FLOOR SURFACES

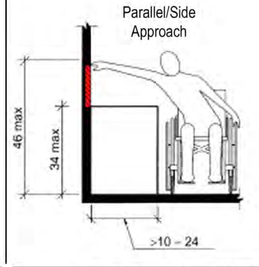
Carpet Floor surfaces- Floor surfaces shall be stable, firm, and slip resistant. Carpet or carpet tile shall be securely attached and shall have a firm cushion, pad, or backing or no cushion or pad. Carpet or carpet tile shall have a level loop, textured loop, level cut pile, or level cut/uncut pile texture. The pile shall be 1/2 inch maximum in height. Exposed edges of carpet shall be fastened to the floor and shall have trim along the entire length of the exposed edge. Carpet edge trim shall comply with Section 303, FIG. 302.2 Openings in floor surfaces shall be of a size that does not permit the passage of a 1/2 inch diameter sphere. Elongated openings shall be placed so that the long dimension is perpendicular to the predominant direction of travel.

Changes of Levels at Carpeting *(303 ICC A117.1-2009)* — 11



Unobstructed Forward/Front approach- Where a forward reach is unobstructed, the high forward reach shall be 48 inches maximum and the low forward reach shall be 15 inches minimum above the floor.

Unobstructed Forward/Front High/Low Reach Zone *(308.2.1 ICC A117.1-2009)* — 7



Obstructed High Reach- Where a clear floor space (details #2 this sheet) allows a parallel/side approach to an element and the high side reach is over an obstruction, like a base cabinet or other fixture. The height of the obstruction shall be 34 inches maximum above the floor and the depth of the obstruction shall be 24 inches maximum. The high side reach zone shall 46 inches maximum above the floor for a reach depth of 24 inches maximum. EXCEPTION- At washing machines and clothes dryers, the height of the obstruction shall be permitted to be 36 inches maximum above the floor.

Obstructed Side/Parallel High Reach Zone *(308.3.2 (b) ICC A117.1-2009)* — 3

20 — 16



FIG. 303.2
CARPET ON FLOOR SURFACES

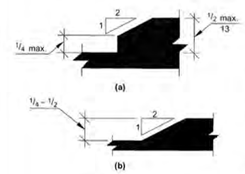


FIG. 303.3
BEVELED CHANGES IN LEVEL

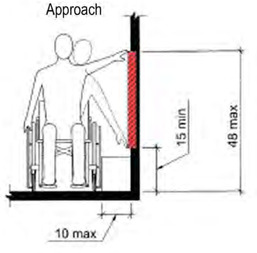
Changes in Levels at Thresholds-

Vertical Change in level of 1/4 inch maximum in height shall be permitted to be vertical (303.2)

Beveled- Changes in level greater than 1/4 inch in height and not more than 1/2 inch maximum in height shall be beveled with a slope not steeper than 1:2 (303.3)

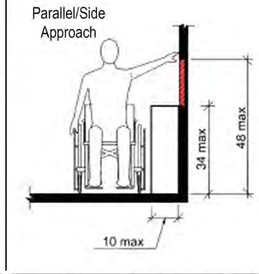
Changes in Level greater Than 1/2 inch- Changes in level greater the 1/2 inch shall be considered as "RAMPS" and are to meet all the requirements of ramps.(303.4)

Changes of Levels at Thresholds *(303 ICC A117.1-2009)* — 12



Unobstructed Parallel/Side Approach- Where a clear floor spacecomplying (see detail #2 this sheet) allows a parallel/side approach to an element and the edge of the clear floor space is 10 inches maximum from the element, the high side reach shall be 48 inches maximum and the low side reach shall be15 inches minimum above the floor. EXCEPTION- Existing elements that are not altered shall be permitted at 54 inches maximum above the floor.

Unobstructed Side/Parallel High/Low Reach Zone *(308.3.1 ICC A117.1-2009)* — 8



Obstructed High Reach- Where a clear floor space (details #2 this sheet) allows a parallel/side approach to an element and the high side reach is over an obstruction, like a base cabinet or other fixture. The height of the obstruction shall be 34 inches maximum above the floor and the depth of the obstruction shall be 10 inches maximum. The high side reach zone shall be **48 inches** above the floor. EXCEPTION- At washing machines and clothes dryers, the height of the obstruction shall be permitted to be 36 inches maximum above the floor.

Obstructed Side/Parallel High Reach Zone *(308.3.2 (b) ICC A117.1-2009)* — 4

Architettura

Terry Judd Architect

801-310-7031

terryjudd@gmail.com

Utah
Hawaii
California

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LICENSED ARCHITECT Terry Dean Judd 268685 STATE OF UTAH

July 12, 2021

PROJECT

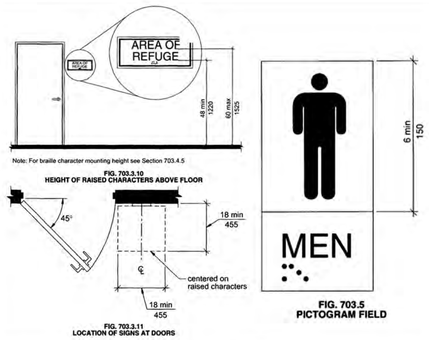
Activ Auto
3380 North Main Street
Spanish Fork
Utah

ACTIV AUTO

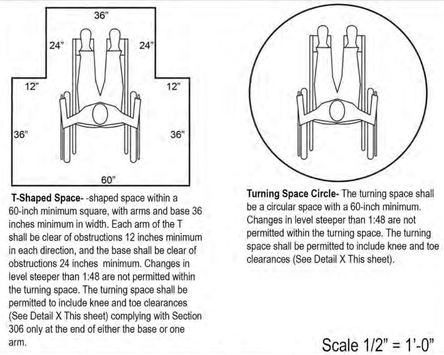
Job Number- 27-06-21

A1.4

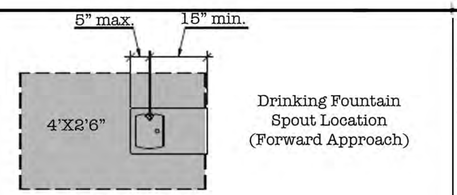
ADA Essential Details and Information



Required Restroom Signage
Located at the door to each restroom



Code Requirements For Turning Space
(304.3 ICC A117.1-2009)



Drinking Fountain
Spout Location
(Forward Approach)

Two Drinking Fountains Are Required

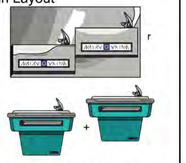
Drinking Fountains Clear Floor Space- A required clear floor area of 4 feet X 2 feet 6 inches for a forward approach CENTER on the drinking fountain. Knee and toe space is also required. Drinking fountains for standing people does not require clear floor area.

Drinking Fountain Spout Outlet Height- Accessible drinking fountains shall have a spout height of 36 inches maximum above the finish floor. Drinking fountains for standing people are to be between 38 and 43 inches above the finish floor.

Drinking Fountain Spout Locations- The spout is to be 15 inches minimum from the vertical support and 5 inches maximum from the front edge of the drinking fountain, including bumpers.

Typical Drinking fountain Layout

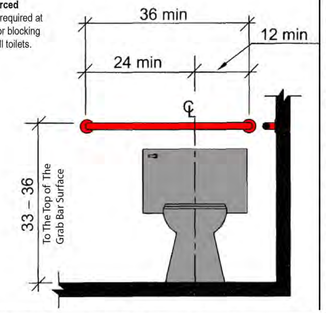




The Building Code Requires
Either of These Configurations

Required Drinking Fountains
(ICC A117.1-2009)

Required Toilet Grab Bar Reinforced Blocking Locations - Blocking is required at all toilets. See graphic this detail for blocking locations at the rear/back wall of all toilets. *Dimensions are in inches*



Backing Required for future Grab Bars at Toilets
Back Wall *Figure 604.5.2 (ICC A117.1-2009)*

Clear Space At Toilet- Toilet must have a clear space around it. Clearance at the wall to the open side of the toilet shall be 60 inches minimum. Clearance Depth from the back of the toilet to the front shall be 56 inches minimum.

Overlapping The Clear Space- The required clearance around the toilet is permitted to overlap grab bars, paper dispensers, coat hooks, shelves and sanitary napkin receptacles. This clear space may overlap the required clear space for sinks, tubs or showers. In no case may other fixtures or obstruction be in the required toilet area clear space. See location detail 12 this sheet for dispenser locations.

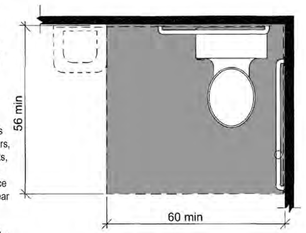
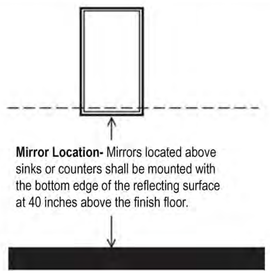


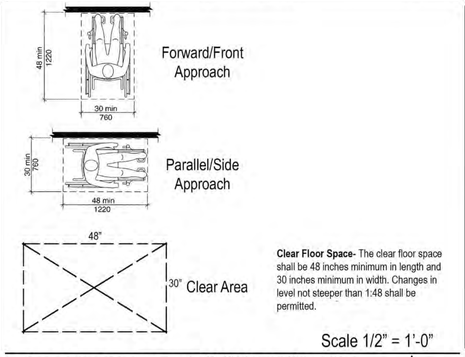
FIG. 604.3
SIZE OF CLEARANCE FOR WATER CLOSET

Required Clear Floor Area Around Toilets *Figure*
(604.3 ICC A117.1-2009)

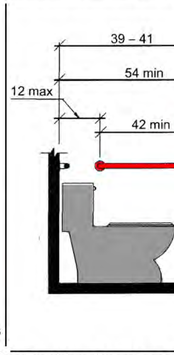


Mirror Location- Mirrors located above sinks or counters shall be mounted with the bottom edge of the reflecting surface at 40 inches above the finish floor.

Mirror Base Height
(-ICC A117.1-2009)

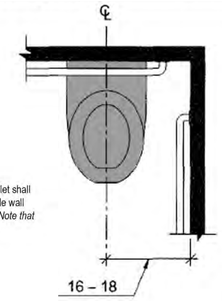


Code Requirements For A 30 X 48 Inch Clear Area
(305 ICC A117.1-2009)



Required Toilet Grab Bar Reinforced Blocking Locations - Blocking is required at all toilets. See graphic this detail for blocking locations at the side wall of all toilets. *Dimensions are in inches*

Backing Required for future Grab Bars at Toilets
Side Wall *(Figure 604.5.1 ICC A117.1-2009)*

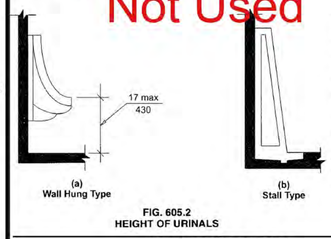


Toilet Location From Side Wall- The toilet shall be located between 16" - 18" from the side wall finish face to the center line of the toilet. *Note that the proper location of the toilet is critical.*

Required Toilet Location from Side Wall
Figure 604.4 (ICC A117.1-2009)

Urinal Partitions- Each urinal utilized by the public or employees shall occupy a separate area with walls or partitions to provide privacy. The walls or partitions shall begin at a height not more than 12 inches from and extend not less than 60 inches above the finished floor surface. The walls or partitions shall extend from the wall surface at each side of the urinal not less than 18 inches or to a point not less than 6 inches (152 mm) beyond the outermost front lip of the urinal measured from the finished back wall surface, whichever is greater. IBC 1209.3.2

Not Used



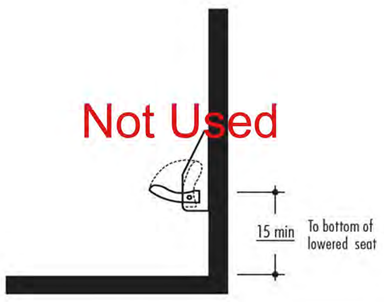
Urinals Height and Depth- Urinals shall be of the stall type or shall be of the wall hung type with the rim at 17 inches maximum above the floor. Wall hung urinals shall be 13-1/2 inches minimum in depth measured from the outer face of the urinal rim to the wall.

Clear Floor Space- 30 X 48 inches clear area, positioned for forward/front approach, shall be provided.

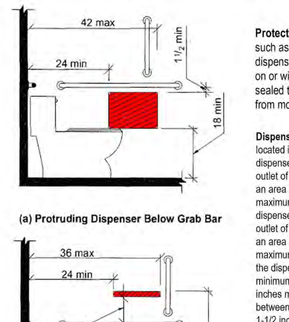
Flush Controls- Flush controls shall be hand operated or automatic. Hand operated flush controls shall be operable with one hand and shall not require tight grasping, pinching, or twisting of the wrist. The force required to activate operable parts shall be 5.0 pounds maximum.

Urinal Information
(Figure 605.2 -ICC A117.1-2009)

Not Used



Child Protection Seat



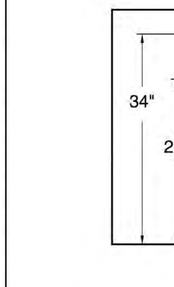
Protect from Moisture-Accessories such as grab bars, towel bars, paper dispensers and soap dishes, provided on or within walls, shall be installed and sealed to protect structural elements from moisture.

Dispensers- Toilet paper dispensers shall located in the reach zone. Where the dispenser is located above the grab bar, the outlet of the dispenser shall be located within an area 24 inches minimum and 36 inches maximum from the rear wall. Where the dispenser is located below the grab bar, the outlet of the dispenser shall be located within an area 24 inches minimum and 42 inches maximum from the rear wall. The outlet of the dispenser shall be located 18 inches minimum and 48 inches maximum above the floor. The space between the wall and the grab bar shall be 1-1/2 inches. The space between the grab bar and projecting objects below and at the ends of the grab bar shall be 1-1/2 inches minimum. The space between the grab bar and projecting objects above the grab bar shall be 12 inches minimum. EXCEPTIONS- Recessed dispensers projecting from the wall 1/4 inch maximum measured from the face of the dispenser and complying with Section

Delivery Control- Dispensers shall not be of a type that control delivery, or do not allow continuous paper flow.

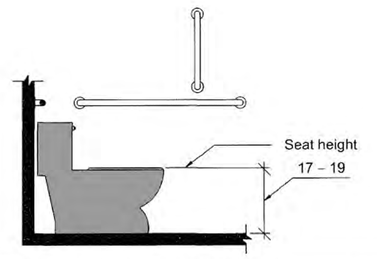
Coat Hooks and Shelves- Coat hooks provided within toilet compartments shall be 48 inches maximum above the floor. Shelves shall be 40 inches minimum and 48 inches maximum above the floor.

Dispenser Outlet Locations
(Figure 604.7- ICC A117.1-2009)



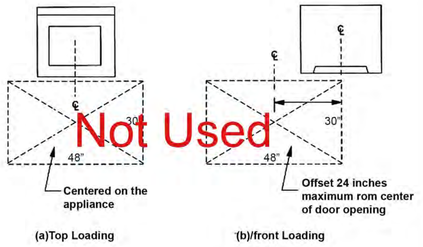
Required Clear Space Under Sinks
(Figure 606.3 ICC A117.1-2009)

Toilet Height - The top of the toilet seat shall be 15" minimum and 19" maximum above the floor, measured to the top of the seat.



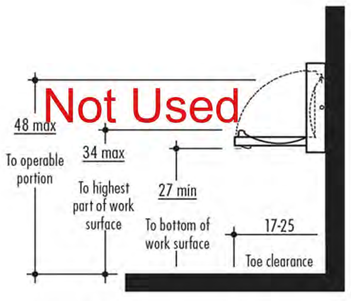
Required Toilet Seat Height
Figure 604.4 (ICC A117.1-2009)

Not Used

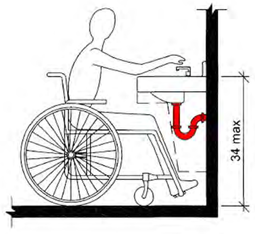


Required Clear Floor Space at Washer and Dryer
Figure 611.2(ICC A117.1-2009)

Not Used



Baby Changing Station

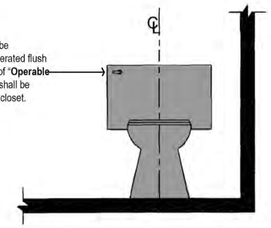


Exposed Pipes and Surfaces- Water supply and drainpipes under lavatories and sinks shall be insulated or otherwise configured to protect against contact. There shall be no sharp or abrasive surfaces under lavatories and sinks.

Exposed Pipes Under Sinks
(Figure 606.6 ICC A117.1-2009)

Floor and Wall Finish- Toilet, bathing and shower room floor finish materials shall have a smooth, hard, nonabsorbent surface. The intersections of such floors with walls shall have a smooth, hard, nonabsorbent vertical base that extends upward onto the walls not less than 4 inches. Walls and partitions within 2 feet of service sinks, urinals and water closets shall have a smooth, hard, nonabsorbent surface, to a height of not less than 4 feet above the floor, and except for structural elements, the materials used in such walls shall be of a type that is not adversely affected by moisture.

Flush Controls- Flush controls shall be hand-operated or automatic. Hand operated flush controls shall meet the requirements of **'Operable Parts'**. Hand-operated flush controls shall be located on the open side of the water closet.



Toilet Flush Control Location, Finish Requirments
1003.11.2.4.6 *(ICC A117.1-2009)*

Architettura
Terry Judd Architect
801-310-7031
terryjudd@gmail.com
Utah
Hawaii
California
Architettura Inc. is a Utah Corporation.

LICENSED ARCHITECT Terry Dean Judd 266685 STATE OF UTAH

July 12, 2021

PROJECT

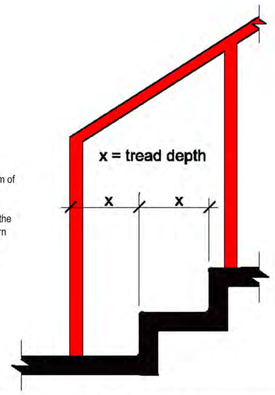
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Utah

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Job Number- 27-06-21

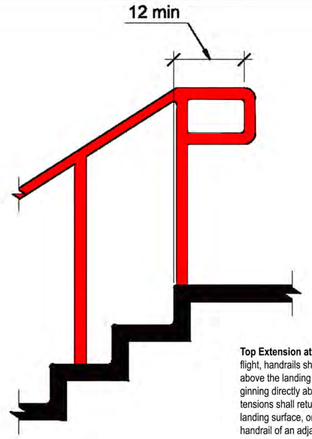
A1.5

ADA Restroom Requirements



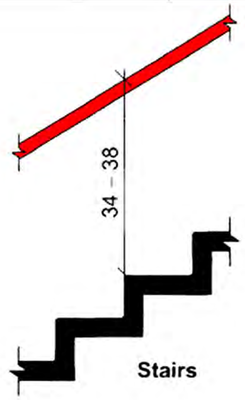
Bottom Extension at Stairs- At the bottom of a stair flight, handrails shall extend at the slope of the stair flight for a horizontal distance equal to one tread depth beyond the bottom tread nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

Required Handrail Extentions At Bottom Of Stairs
(505.10.3 - ICC A117.1-2009) | 10



Top Extension at Stairs- At the top of a stair flight, handrails shall extend horizontally above the landing for 12 inches minimum beginning directly above the landing nosing. Extensions shall return to a wall, guard, or the landing surface, or shall be continuous to the handrail of an adjacent stair flight.

Required Handrail Extentions At Top Of Stairs
(505.10.2- ICC A117.1-2009) | 7



Handrails on Both Sides Required- Handrails shall be provided on both sides of stairs and ramps.

Handrails to be Continuous- Handrails shall be continuous witin the full length of each stair flight or ramp run. Inside handrails on switchback or dogleg stairs or ramps shall be continuous between flights or runs.

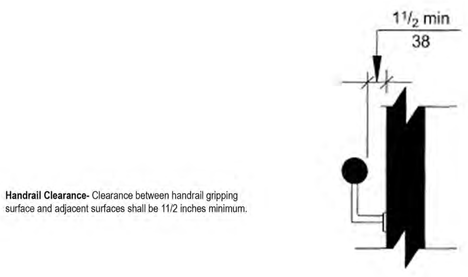
Handrail Height- Top of gripping surfaces of handrails shall be 34 inches minimum and 38 inches maximum vertically above stair nosings, ramp surfaces and walking surfaces. Handrails shall be at a consistent height above stair nosings, ramp surfaces and walking surfaces.

505.6 Gripping Surface. Gripping surfaces shall be continuous, without interruption by newel posts, other
construction elements, or obstructions.05.10.3

Required Handrail Extentions At Bottom Of Stairs
(505.10.3 - ICC A117.1-2009) | 4



Examples of Handrail Extensions | 1



Handrail Cross Section- Circular Cross Section- Handrails with a circular cross section shall have an outside diameter of 1-1/4 inches minimum and 2 inches maximum. **Non-circular Cross Sections-** Handrails with a non-circular cross section shall have a perimeter dimension of 4 inches minimum and 6-1/4 inches maximum, and a cross-section dimension of 1-1/4 inches maximum. Surfaces. Handrails, and any wall or other surfaces adjacent to them, shall be free of any sharp or abrasive elements. Edges shall be rounded. Handrails shall not rotate within their fittings.

Required Handrail Cross Section
(505..7 - ICC A117.1-2009) | 11

STAIRS (SECTION 1009)

1009.1 STAIRWAY WIDTH- THE WIDTH OF STAIRWAYS SHALL BE DETERMINED AS SPECIFIED IN SECTION 1005.1, BUT SUCH WIDTH SHALL NOT BE LESS THAN 44 INCHES.

EXCEPTION 1: STAIRWAYS SERVING AN OCCUPANT LOAD OF LESS THAN 50 SHALL HAVE A WIDTH OF NOT LESS THAN 36 INCHES.

1009.4.2 RISER HEIGHT AND TREAD DEPTH- STAIR RISER HEIGHTS SHALL BE 7 INCHES MAXIMUM AND 4 INCHES MINIMUM. THE RISER HEIGHT SHALL BE MEASURED VERTICALLY BETWEEN THE LEADING EDGES OF ADJACENT TREADS. RECTANGULAR TREAD DEPTHS SHALL BE 11 INCHES MINIMUM.

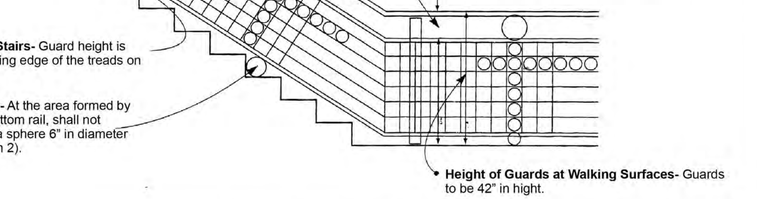
1009.5 STAIRWAY LANDINGS- THERE SHALL BE A FLOOR OR LANDING AT THE TOP AND BOTTOM OF EACH STAIRWAY. THE WIDTH OF LANDINGS SHALL NOT BE LESS THAN THE WIDTH OF STAIRWAYS THEY SERVE. EVERY LANDING SHALL HAVE A MINIMUM DIMENSION MEASURED IN THE DIRECTION OF TRAVEL EQUAL TO THE WIDTH OF THE STAIRWAY. SUCH DIMENSION NEED NOT EXCEED 48 INCHES WHERE THE STAIRWAY HAS A STRAIGHT RUN.

Commercial Stair Requirments
(IBC 1009) | 8

Where Are Guards Required- Guards shall be located along open-sided walking surfaces, including mezzanines, equipment platforms, aisles, stairs, ramps and landings that are located more than 30 inches measured vertically to the floor or grade below at any point within 36 inches horizontally to the edge of the open side. Guards shall be adequate in strength and attachment.

Height of Guards- Guards shall be not less than **42 inches high**, measured vertically as follows: From the adjacent walking surfaces.
On stairways and stepped aisles, from the line connecting the leading edges of the tread nosings. On ramps and ramped aisles, from the ramp surface at the guard.

Opening Limitations- Required guards shall not have openings that allow passage of a sphere 4 inches in diameter from the walking surface to the required guard height. **Exceptions-** From a height of 36 inches to 42 inches, guards shall not have openings that allow passage of a sphere 4-3/8 inches in diameter. The triangular openings at the open sides of a stair, formed by the riser, tread and bottom rail shall not allow passage of a sphere 6 inches in diameter.



Guard Height- Guards shall be not less than 42" high, measured vertically fro the adjacent walking surfaces, on stairways from a line connecting the leading edges of the tread nosing and on ramps from the ramp surface at the guard (IBC 1015.3).

Opening Limitations- Required guards shall not have opening that allow passage of a sphere 4" in diameter fro the walking surface to the required guard height (IBC 1015.4).

Guard Pattern Exception- From +34" to +42" guards shall not have opening that allow passage of a sphere 4-3/8" in diameter

Height of Guards At Stairs- Guard height is masured from the leading edge of the treads on the stairway

Triangular Openings- At the area formed by the riser, tread and bottom rail, shall not allow the passage of a sphere 6" in diameter (IBC 1015.4 Exception 2).

Height of Guards at Walking Surfaces- Guards to be 42" in hight.

Required Guards At Stair and All Loctions Noted In this Detail
(1015- IBC) | 2

Handrail Clearance- Clearance between handrail gripping surface and adjacent surfaces shall be 11/2 inches minimum.

Handrail Clearance
(505.5- ICC A117.1-2009) | 12

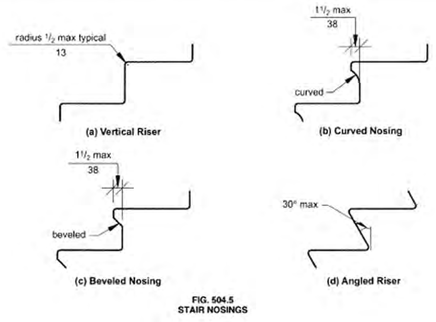


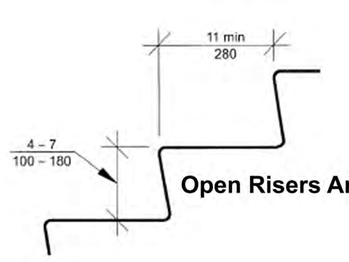
FIG. 504.5
STAIR NOSINGS

Stair Nosings- The radius of curvature at the leading edge of the tread shall be 1/2 inch maximum. Nosings that project beyond risers shall have the underside of the leading edge curved or beveled. Risers shall be permitted to slope under the tread at an angle of 30 degrees maximum from vertical. The permitted projection of the nosing shall be 1-1/2 inches maximum over the tread or floor below.

Tread Surface- Stair treads shall have a slope not steeper than 1:48.

Visual Contrast- The leading 2 inches of the tread shall have visual contrast of darken light or light-on-dark from the remainder of the tread.

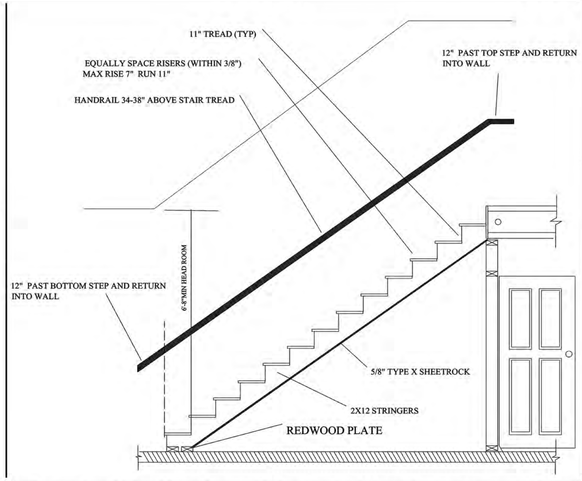
Required Nosings at Stairs
(505.5- ICC A117.1-2009) | 9



Treads and Risers- All steps on a flight of stairs shall have uniform riser height and uniform tread depth. Risers shall be 4 inches minimum and 7 inches maximum in height. Treads shall be 11 inches minimum in depth.

Open Risers- Open risers shall **NOT** be permitted

Required Treads and Risers For Accessible Stairsways *(504.2- ICC A117.1-2009)* | 6



Example of Site-Manufactured Stairs with Wood Stringers and Wood Treads | 3

Architettura

Terry Judd Architect

801-310-7031

terryjudd@gmail.com

Utah
Hawaii
California

Architettura Inc. is a Utah Corporation.

LICENSED ARCHITECT Terry Dean Judd 258685 STATE OF UTAH

July 12, 2021

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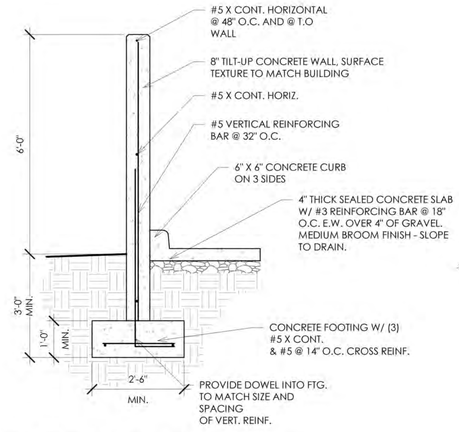
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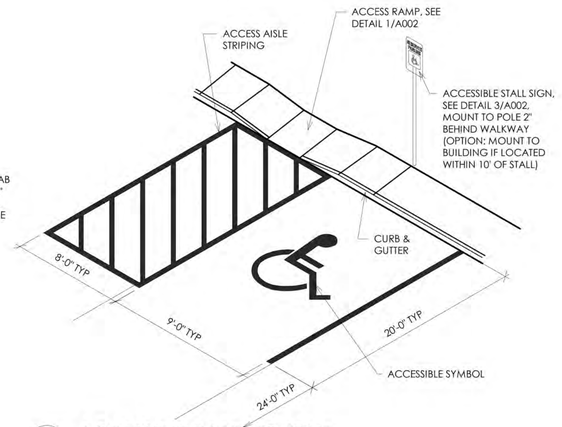
Job Number- 27-06-21

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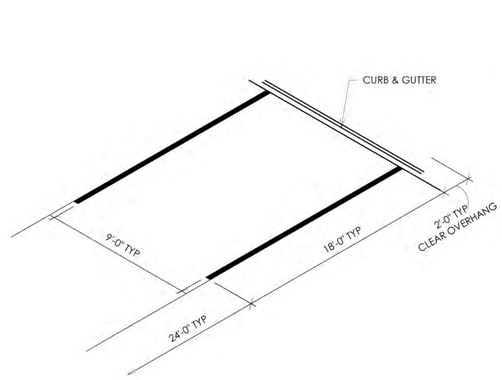
Stair, Guards and Railing Details



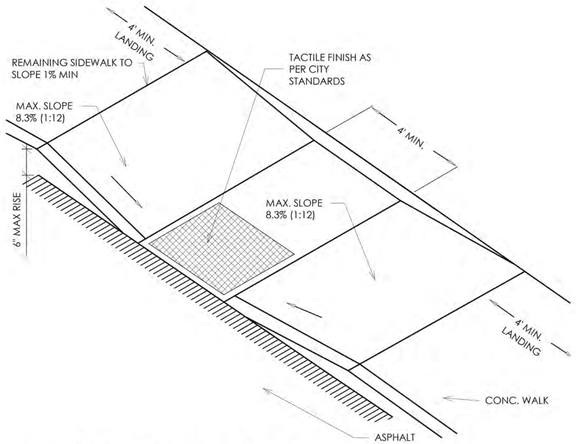
10 A1.7 **CONC. DUMPSTER ENCLOSURE WALL**
1/2" = 1'-0"



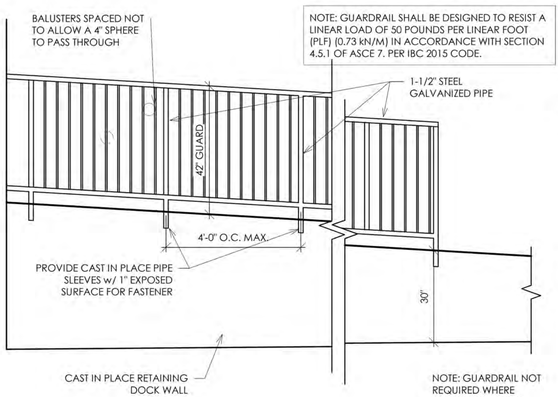
7 A1.7 **ACCESSIBLE PARKING STALL**
1/4" = 1'-0"



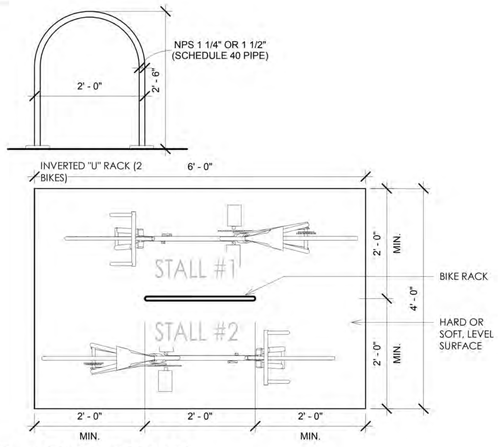
4 A1.7 **TYPICAL 90 DEG. PARKING STALL**
1/4" = 1'-0"



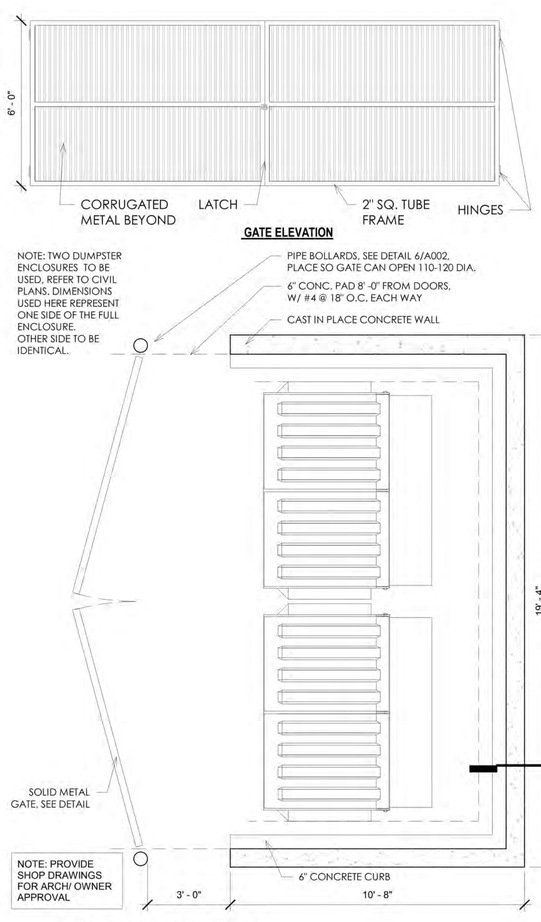
1 A1.7 **ACCESSIBLE RAMP DETAIL**
1" = 1'-0"



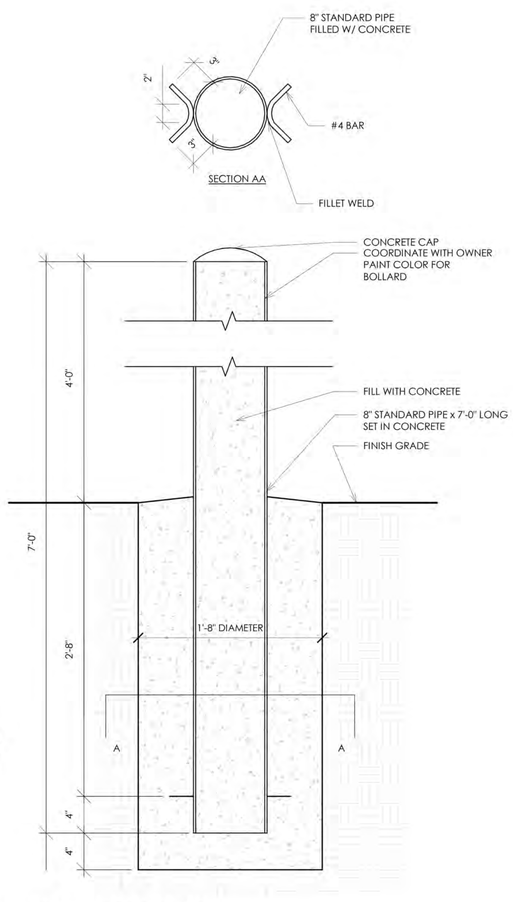
11 A1.7 **DOCK GUARD RAIL**
1/2" = 1'-0"



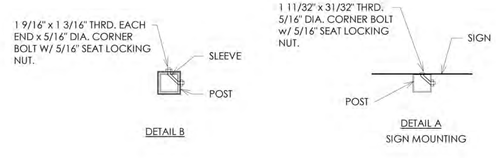
12 A1.7 **BIKE RACK DETAIL**
3/4" = 1'-0"

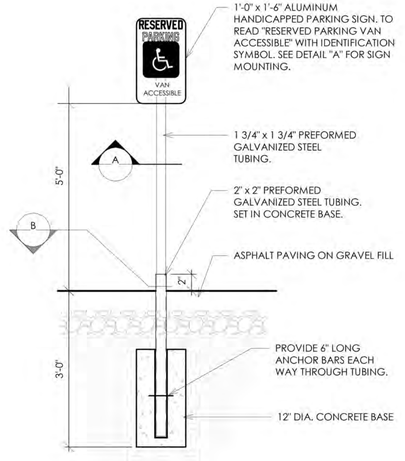


9 A1.7 **DUMPSTER ENCLOSURE**
3/8" = 1'-0"



6 A1.7 **PIPE BOLLARD DETAIL**
1 1/2" = 1'-0"





3 A1.7 **HANDICAPPED PARKING SIGN**
1" = 1'-0"

Architettura

Terry Judd Architect

801-310-7031

terryjudd@gmail.com

Utah
Hawaii
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LICENSED ARCHITECT Terry Dean Judd 268685 STATE OF UTAH

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Activ Auto
3380 North Main Street
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Job Number- 27-06-21

A1.7

Site Details

GENERAL NOTES:

1. VISITS TO THE JOB SITE BY REPRESENTATIVE OF THE ENGINEER DO NOT CONSTITUTE APPROVAL OF THE WORK PERFORMED BY THE CONTRACTOR OR HIS SUBCONTRACTORS AND ARE MERELY FOR THE PURPOSE OF OBSERVING THE WORK PERFORMED.

2. CONTRACTOR SHALL NOTIFY ENGINEER / ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND / OR SPECIFICATIONS BEFORE PROCEEDING WITH ANY WORK INVOLVED IN ALL CASES UNLESS OTHERWISE DIRECTED, THE MOST STRINGENT REQUIREMENTS SHALL GOVERN AND BE PERFORMED.

3. CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSIONS AND ELEVATIONS, ETC.. AT THE SITE AND SHALL COORDINATE WORK PERFORMED BY ALL TRADES. DO NOT SCALE DRAWINGS.

4. SHOP DRAWINGS AND SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER / ARCHITECT AND TENANT PRIOR TO FABRICATION OR ERECTION FOR ANY PREFABRICATED OR MANUFACTURED - DESIGNED COMPONENTS.

5. SIZES, LOCATIONS, LOADS, AND ANCHORAGE OF EQUIPMENT SHALL BE VERIFIED IN THE FIELD WITH EQUIPMENT MANUFACTURES (SUPPLIERS) PRIOR TO FABRICATION OR INSTALLATION OF SUPPORTING STRUCTURES.

6. TEMPORARY BRACING SHALL BE PROVIDED WHEREVER NECESSARY TO TAKE CARE OF ALL LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING WIND, SUCH BRACING SHALL BE LEFT IN PLACE AS LONG AS MAY BE REQUIRED FOR SAFETY, OR UNTIL ALL THE STRUCTURAL ELEMENTS ARE COMPLETED. ALL BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

7. DURING AND AFTER CONSTRUCTION THE CONTRACTOR AND / OR OWNER SHALL KEEP LOADS ON THE STRUCTURE WITHIN THE LIMITS OF THE DESIGN LOAD.

8. CONTRACTOR AND ALL SUBCONTRACTORS SHALL PERFORM THEIR TRADES AND DUTIES IN A MANNER CONFORMING TO THE PROCEDURES AND REQUIREMENTS AS STATED IN THE 2015 INTERNATIONAL BUILDING CODE, (OR LATEST ACCEPTED CODE ADOPTED BY THE LOCAL BUILDING OFFICIALS), AND LOCAL ORDINANCES.

9. ANY SPECIAL INSPECTION REQUIRED BY THE BUILDING OFFICIAL OR THE INTERNATIONAL BUILDING CODE ARE THE RESPONSIBILITY OF THE CONTRACTOR AND PAID BY THE OWNER.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AND PROTECTION WITHIN AND ADJACENT TO THE JOB SITE.

11. ALL PLUMBING WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE, AND LOCAL ORDINANCES. ALL PLUMBING WORK AND FIXTURES MUST MEET THE APPROVAL OF THE OWNER, CONTRACTOR, ARCHITECT/ENGINEER, TENANT AND THE BUILDING OFFICIAL.

12. ALL HVAC WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE, AND LOCAL ORDINANCES. HVAC WORK, UNITS, AND CONTROLS, MUST MEET THE APPROVAL OF THE OWNER, CONTRACTOR, ARCHITECT/ENGINEER, TENANT, AND THE BUILDING OFFICIAL.

13. CONSTRUCTION MUST BE IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE.

14. CONSTRUCTION MUST BE IN COMPLIANCE WITH THE CURRENT INTERNATIONAL FIRE CODE.

15. ALL ELECTRICAL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE ICC ELECTRICAL CODE AND LOCAL ORDINANCES. ALL ELECTRICAL WORK, FIXTURES, SWITCHES, ETC... MUST MEET APPROVAL OF THE OWNER, CONTRACTOR, ARCHITECT / ENGINEER, TENANT AND BUILDING OFFICIAL.

16. REST ROOMS, ETC... SHALL COMPLY WITH THE LATEST ADA REQUIREMENTS, NATIONAL AND LOCAL.

17. ALL WORK MUST MEET THE APPROVAL OF THE BUILDING OWNERS, THE TENANT, THE DESIGNER, AND THE BUILDING AND ZONING DEPARTMENTS.

18. ALL FURNITURE, PLANTS, INTERIOR SIGNAGE, FILES / FILING CABINETS, APPLIANCES, OFFICE EQUIPMENT TO BE FURNISHED, INSTALLED AND PAID FOR BY THE TENANT.

19. ANY AND ALL CHANGES OR VARIATIONS FROM THESE DOCUMENTS MUST BE APPROVED IN WRITING PRIOR TO MAKING THEM.

20. DO NOT SCALE DRAWINGS, ARCHITECT SHALL NOT BE RESPONSIBLE FOR DIMENSIONS, TAKE OFFS OR CALCULATIONS BASED ON DIGITAL MEDIA. REFER TO PRINTED DIMENSIONS ONLY. DRAWINGS OF A LARGER SCALE TAKE PRECEDENT OVER DRAWINGS OF A SMALLER SCALE.

21. FIRE ASSEMBLIES SHALL BE CONTINUOUS BOTH HORIZONTALLY AND VERTICALLY AND SHALL EXTEND FROM RATED ASSEMBLY TO RATED ASSEMBLY. FIRE CAULK ALL PENETRATIONS.

GENERAL FRAMING NOTES:

1. ATTACH EACH END OF ROOF TRUSSES AND OTHER BEARING POINTS TO WALL DOUBLE TOP PLATE USING SIMPSON H1 SEISMIC/HURRICANE TIES AT 24" O.C., UNLESS NOTED OTHERWISE. TOE NAIL 2X SOLID BLOCKING BETWEEN EACH TRUSS TO TOP PLATE USING 3-16D NAILS, UNLESS SIMPSON CLIP IS OTHERWISE SPECIFIED.
2. OVERBUILD ROOF FRAMING TO BE 2" X 6" @ 24" O.C., SUPPORT EACH 2 X 6 TO THE TRUSSES BELOW WITH 2" X 4" VERT. SUPPORTS @ 4'-0" O.C.
3. USE (2) 2X10 DF-L FOR WINDOW AND DOOR HEADERS, UNO.
4. ROOF TRUSS ENGINEERING BY OTHERS. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE MECHANICAL CONNECTORS CAPABLE OF WITHSTANDING THE LOADS SPECIFIED IN THE ROOF TRUSS NOTES REQUIRING A CONNECTOR.
5. PROVIDE FULL SHEATHING UNDER ALL OVER FRAMING.
6. LAY UP ROOF PLYWOOD WITH THE FACE GRAIN (STRENGTH AXIS) PERPENDICULAR TO SUPPORTS, USING A MINIMUM OF 5 PLY PLYWOOD, STAGGER JOINTS. ALL NAILING TO BE DONE WITH COMM0N NAILS.
7. ALL WOOD BEAMS, JOISTS AND COLUMNS SHALL BE NO. 2 GRADE LUMBER OR BETTER. ALL GLUE LAMINATED TIMBER MEMBERS SHALL HAVE A MINIMUM BENDING STRESS OF 2,400 PSI.
8. BUILT UP BEAMS OF 2x MEMBERS 12" OR LESS IN DEPTH SHALL BE SPIKED TOGETHER WITH NOT LESS THAN TWO ROWS OF 16d SPIKES AT 12" CENTERS, STAGERRED, UNLESS NOTED OTHERWISE. MEMBERS WITH DEPTH LARGER THAN 12" SHALL BE CONNECTED TOGETHER WITIH 1/2" DIAMETER BOLTS @ 24" O.C. STAGGERED. BOLTS SHALL BE PLACED 1/4 THE DEPTH OF THE MEMBER FORM THE TOP AND B0TTOM OF THE MEMBER.
9. ATTACH MULTIPLE POST MEMBERS TOGETHER W/(2) ROWS 16d NAILS @ 6" O.C.
10. ALL WOOD BEAMS AND HEADERS SHALL BEAR ON A MINIMUM OF (2) CRIPPLE STUDS AT EACH END UNLESS SHOWN OTHERWISE.
11. CLAD HOUSE WITH 7/16" PLYWOOD OR OSB SHEATHING COMPLYING WITH I.B.C. TABLE 2306.4.1 AND SECTION 2306.4.1. HOLD-DOWNS, WHEN REQUIRED, ARE TO BE LOCATED AT EACH END OF SHEAR PANEL AND INSTALLED ACCORDING TO MANUFACTURER'S PUBLISHED INSTRUCTIONS. Stud spacing is 16 inches on center.
12. MINIMUM NAILING REQUIREMENTS (SEE SHEAR WALL LEGEND FOR AREAS WITH GREATER REQUIREMENTS): ROOF: NAIL ALL PLYWOOD PANELS WITH 8d COMMON NAILS (10d NAILS FOR 19/32" & 5/8" THICK PLYWOOD OR OSB) @ 6" O.C. AT ALL SUPPORTED EDGES AND @ 12" O.C. AT ALL INTERMEDIATE SUPPORTS. USE (1) PLYCLIP BETWEEN EACH SUPPORT FOR SPANS 24 INCHES AND LESS AT ALL UNSUPPORTED PLYWOOD PANEL EDGES. STRENGTH AXIS PERPENDICULAR TO SUPPORTS. SPAN INDEX RATIO, UNLESS NOTED OTHERWISE: 24/16. PROVIDE FULL SHEATHING UNDER ALL OVER FRAMING. WALLS: NAIL ALL PLYWOOD PANELS WITH 8d COMMON NAILS @ 6" O.C. AT ALL SUPPORTED EDGES AND @ 12" O.C. AT ALL INTERMEDIATE SUPPORTS. SOLID BLOCK ALL PANELS EDGES. SPAN INDEX RATIO, UNO, 24/0.
13. ALL FOOTINGS WERE DESIGNED ACCORDING TO THE MIN. 1500 PSF SOIL BEARING PRESSURE.
14. CEILING OF GARAGE NEEDS TO BE 5/8" SHEETROCK. SEE SECTION R302.6 IN THE INTERNATIONAL RESIDENTIAL CODE

FOOTING AND FOUNDATION NOTES

1. SEE MAIN ROOF FRAMING PLAN SHEET FOR HOLD DOWN PLACEMENT.
2. CONCRETE: F'C=2,500 PSI FOOTINGS; 3,000 PSI FOUNDATION AND INTERIOR SLABS; AND 4,000 PSI FOR EXTERIOR SLABS. REINFORCEMENT: FY=60,000 PSI
3. FOOTINGS SHALL HAVE "J" BAR DOWELS SPACED TO MATCH VERTICAL WALL REINFORCEMENT. REINFORCEMENT SHALL BE 3" CLEAR FROM BOTTOM.
4. ALL OPENINGS TO BE REINFORCED WITH (2) #4 BARS SURROUNDING OPENING.
5. LINTELS ABOVE OPENINGS TO BE DESIGNED WITH #4 VERTICAL REINFORCEMENT @12" O.C. AND (2) #4 HORIZONTAL REINFORCEMENT AT 10" O.C.
6. MINIMUM WALL REINFORCEMENT SHALL BE AS FOLLOWS:
(1) ONE WITHIN 4" OF THE TOP AND BOTTOM, THE OTHER EVENLY SPACED.
a. PLACE STEEL IN THE CENTER OF THE WALL AND EXTEND FROM THE FOOTING TO WITHIN THREE INCHES (76 MM) OF THE TOP OF THE WALL.
b. DOWELS OF #4 BARS TO MATCH VERTICAL STEEL PLACEMENT SHALL BE PROVIDED IN THE FOOTING, EXTENDING 24 INCHES INTO THE FOUNDATION WALL.
c. SOIL BACKFILL SHALL BE SOIL CLASSIFICATION TYPES GW, GP, SW, OR SP, PER TABLE 1610.1. SOIL SHALL NOT BE SUBMERGED OR SATURATED IN GROUNDWATER.
7. ATTACH SILL PLATE TO TOP OF FOUNDATION WALL USING 1/2" X 10" ANCHOR BOLTS AT 32" O.C. OR 5/8" X 10" AT 48" O.C. WITH STEEL PLATE WASHERS, A MINIMUM OF 0.229" X 3" X 3" IN SIZE, BETWEEN SILL PLATE AND NUT.

LEGEND

- 145-2 = DOOR TAGS
- A = STOREFRONT WALL TAGS
- xx/xxx = KEYNOTE TAGS
- C&D = WALL TYPE TAGS; SEE WALL TYPES ON G006
  - "C" = WALL TYPE
  - "6" = STUD SIZE
  - "0" = FIRE RATING IN HOURS
- x / x/x = DETAILS CALL-OUTS TAGS
- x / x.x = SECTION CUTS TAGS
- 100 = ROOM NUMBER

Architettura

Terry Judd Architect

801-310-7031

terryjudd@gmail.com

Utah
Hawaii
California

Architettura Inc. is a Utah Corporation.

LICENSED ARCHITECT Terry Dean Judd 266885 STATE OF UTAH

July 12, 2021

PROJECT

Activ Auto
3380 North Main Street
Spanish Fork
Utah

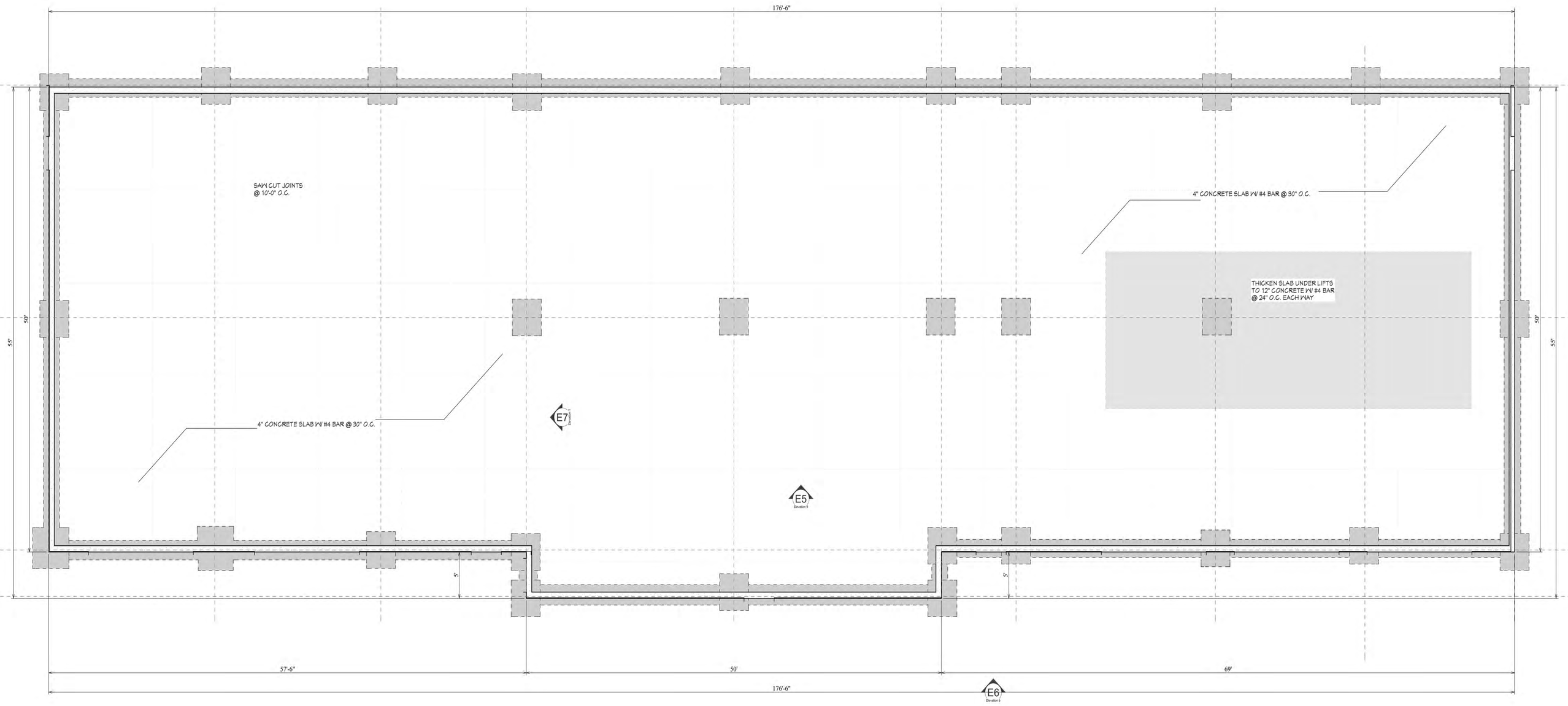
ACTIV AUTO

Job Number- 27-06-21

A1.8

General Notes

E3508.1.2, NEC 250.50
Provide a U-FER Ground



3/16" 0 1 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48

Scale 3/16" = 1'-0"

DATE	Revision Description	MARK

SHEET NO.

Utah & Hawaii

Architettura Inc.
Terry Judd
Architect
801-310-7031
terrydjudd@gmail.com
Architettura Inc. is a Utah corportation

LICENSED ARCHITECT
Terry Dean Judd
268685
STATE OF UTAH
November 3 2021

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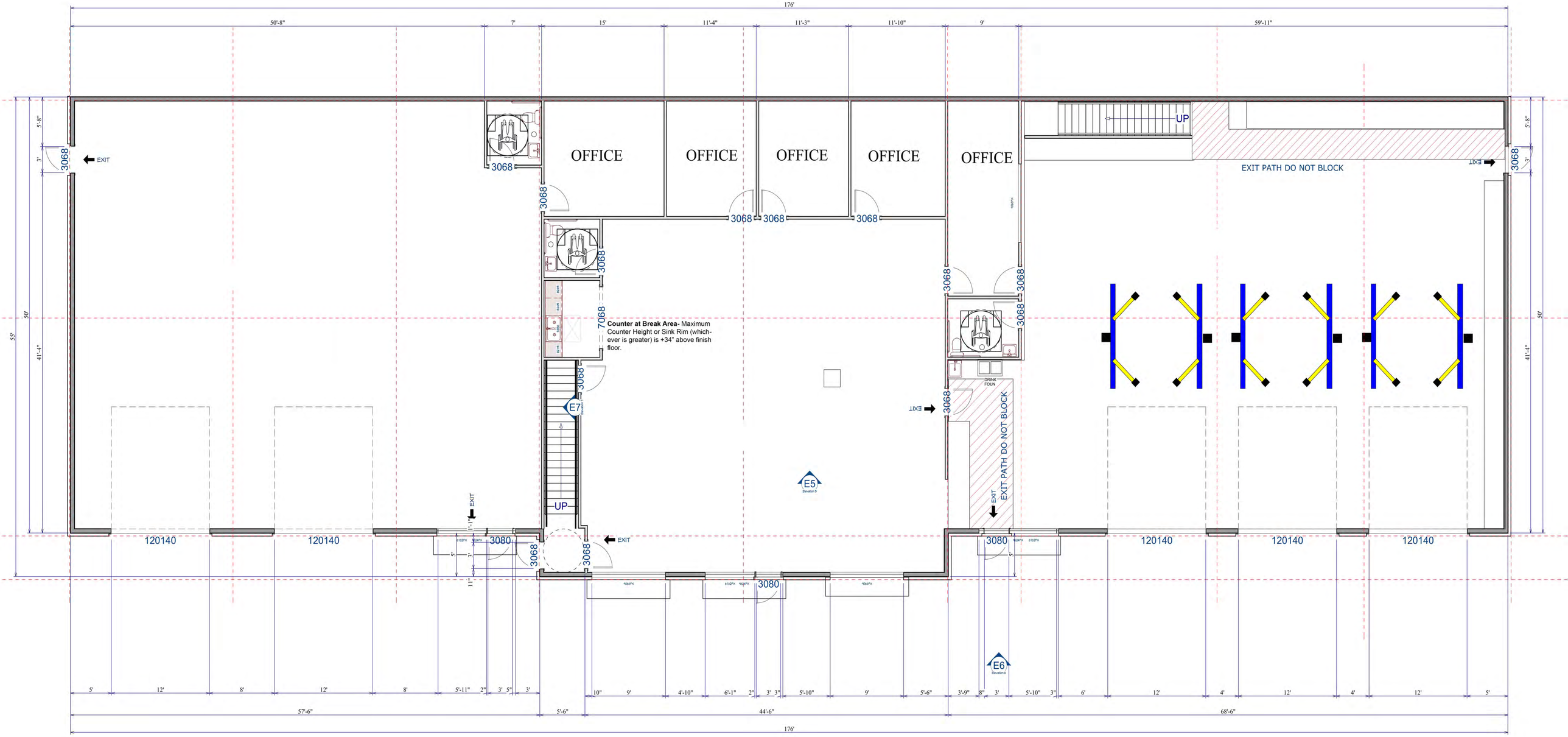
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Spanish Fork, Utah

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PAGE
A2.1

Foundation Layout Plan



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Architettura Inc.
Terry Judd Architect
801-310-7031
terrydjudd@gmail.com
Architettura Inc. is a Utah corportation

LICENSED ARCHITECT Terry Dean Judd 265685 STATE OF UTAH

November 3 2021

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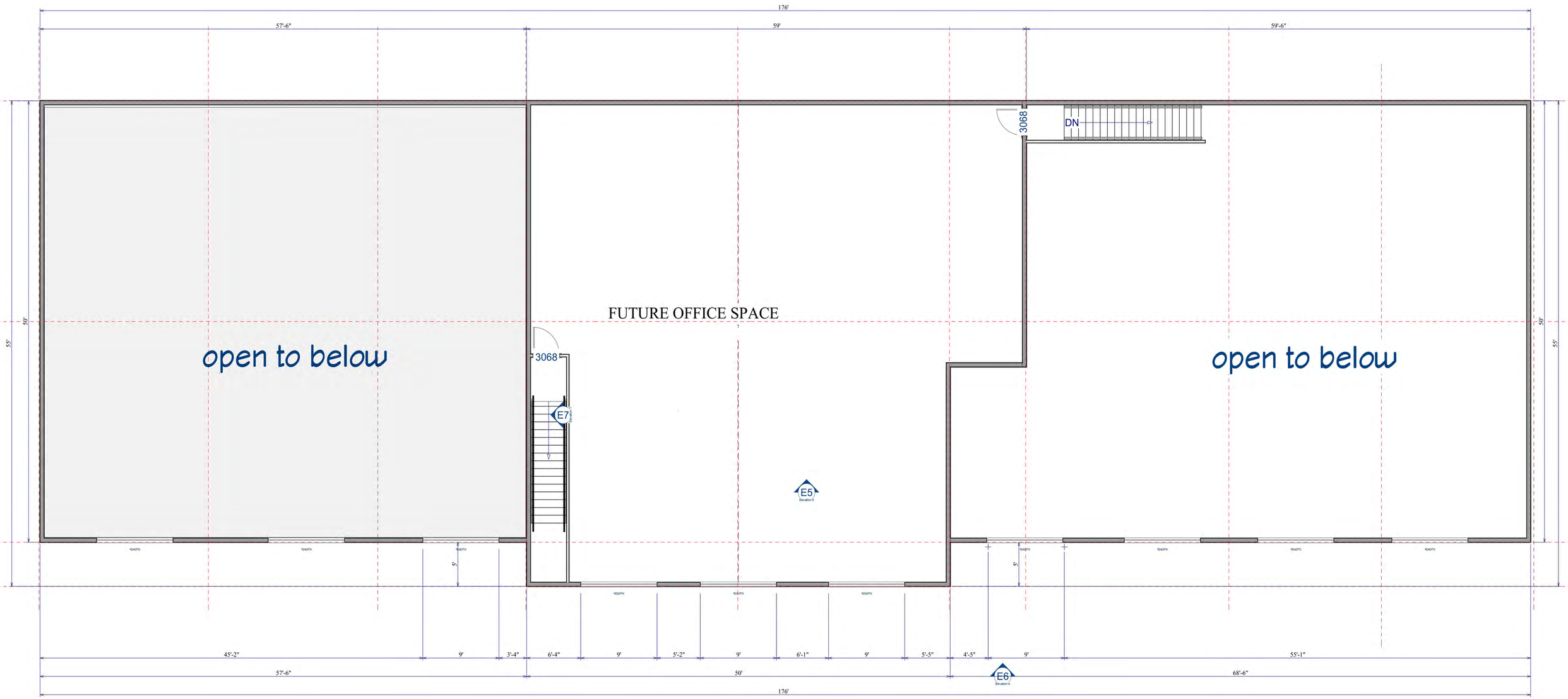
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PAGE A3.1

Main Floor Plan



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Architettura Inc.
Terry Judd 801-310-7031
Architect terrydjudd@gmail.com
Utah & Hawaii

Architettura Inc. is a Utah corportation

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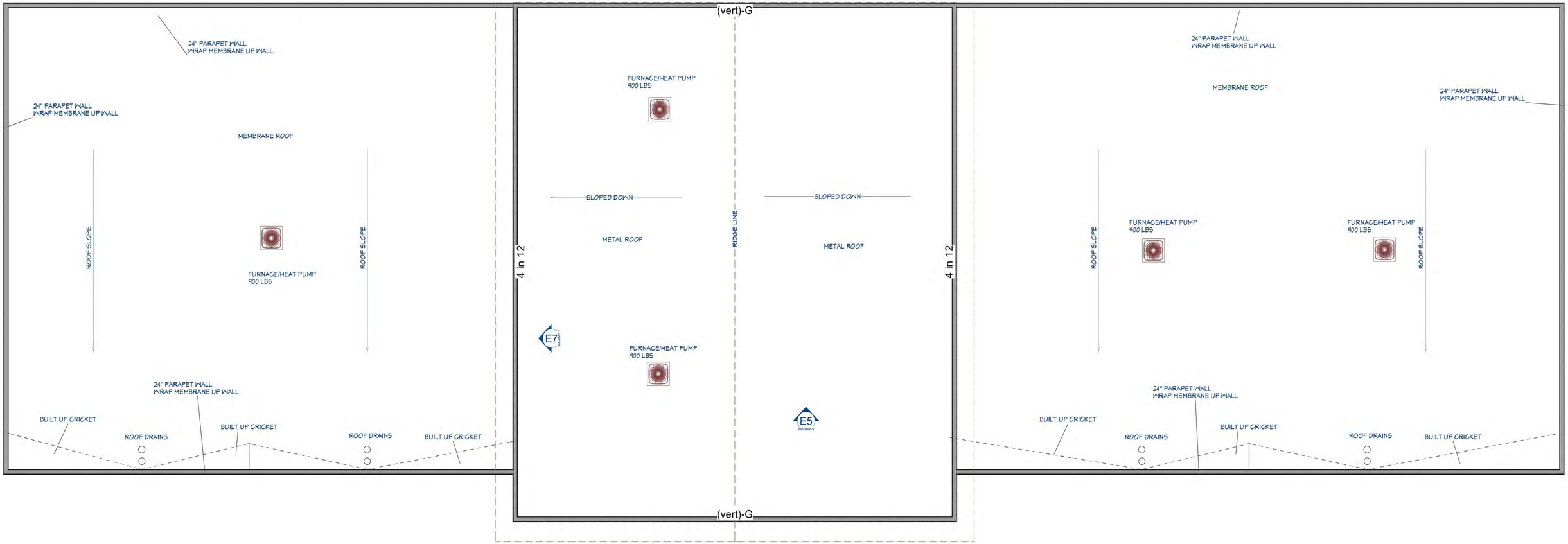
PAGE A3.2

Second Floor Level

ROOFING NOTES (TYPICAL):

1. PROVIDE FULL MANUFACTURERS WARRANTY ON MATERIALS AND 5 YEAR WARRANTY MIN. ON LABOR. UNO
2. ALL COLORS, ASSEMBLIES AND MATERIALS MUST MEET APPROVAL OF OWNER AND DESIGN PROFESSIONAL.
3. PROVIDE PRODUCT SUBMITTALS FOR PRE APPROVAL PRIOR TO ORDERING AND INSTALLATION
4. FOR TYPICAL ROOF/FLASHING DETAILS, SEE SHEET A542
5. PROVIDE STEP FLASHING COUNTER FLASHING, DRIP EDGES AS REQ'D. CAULK AND SEAL. ROOFING TO EXTEND 18" MIN. UP ADJACENT WALLS AND DISCONTINUITIES TYPICAL.
6. INSTALL ROOF PER MANUFACTURERS RECOMMENDATIONS AND SPECIFICATIONS. MANUFACTURER TO INSPECT INSTALLATION AS REQ'D FOR WARANTEE. PROVIDE 1/4" PER FOOT MIN. SLOPE.
7. FOR ALL PLUMBING PENETRATIONS REFER TO DETAILS ON A542 AND PLUMBING DRAWINGS.
8. FOR MISC. ROOF DETAILS SEE A541 AND A542
9. TYPICAL MINIMUM ROOF SLOPE @ 1/4" MIN. PER FOOT ALL PLACES.
10. SEE MECHANICAL PLAN FOR ROOF MOUNTED EQUIPMENT AND CURBS, ET.
11. PROVIDE DRAINAGE CRICKETS AROUND ALL MECHANICAL UNITS ON ROOF.

KEYNOTE LEGEND	
05/019	METAL PARAPET CAP
07/001	COPPER COLORED STANDING SEAM METAL ROOF - PROVIDE SUBMITTAL FOR APPROVAL
07/002	45 MIL TPO REINFORCED ROOF OVER POLYISO INSULATION ON METAL DECK. PROVIDE BID ALTERNATE FOR 60 MIL TPO RHINOBOND SYSTEM. R VALUE = R-26 - PROVIDE SUBMITTAL FOR APPROVAL
08/008	ROOF ACCESS HATCH. PROVIDE SUBMITTAL FOR APPROVAL
22/016	ROOF DRAIN. SEE SHEET A542



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Scale 3/16" = 1'-0"

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Utah & Hawaii

Architettura Inc.
Terry Judd
Architect
801-310-7031
terrydjudd@gmail.com

LICENSED ARCHITECT Terry Dean Judd 268685 STATE OF UTAH

PROJECT TITLE:

Active Auto
Spanish Fork, Utah

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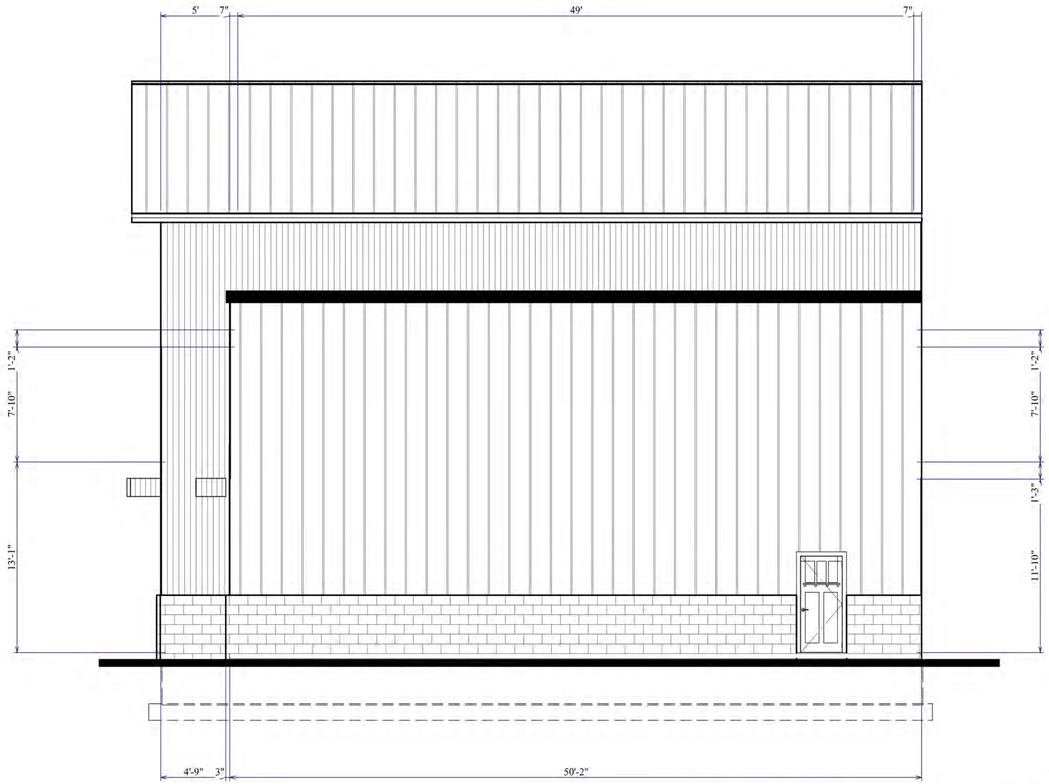
PAGE A3.4

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Scale 1/4" = 1'- 0"

Roof Layout Plan



North Side

PROVIDE PROPER FLASHING AT ALL EXTERIOR DOORS, WINDOWS AND OPENINGS.

INSTALL ICE AN WEATHER SHEILD PROTECTION AT ALL EDGES, EAVES AND VALLEYS
SHEILD SHALL EXTEND 24" PAST THE WARM SIDE OF THE WALL



East Side (Street Elevation)

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Scale 3/16" = 1'-0"

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Utah & Hawaii

Architettura Inc.
Terry Judd
Architect
801-310-7031
terrydjudd@gmail.com
Architettura Inc. is a Utah corportation

LICENSED ARCHITECT
Terry Dean Judd
263685
STATE OF UTAH

November 3 2021

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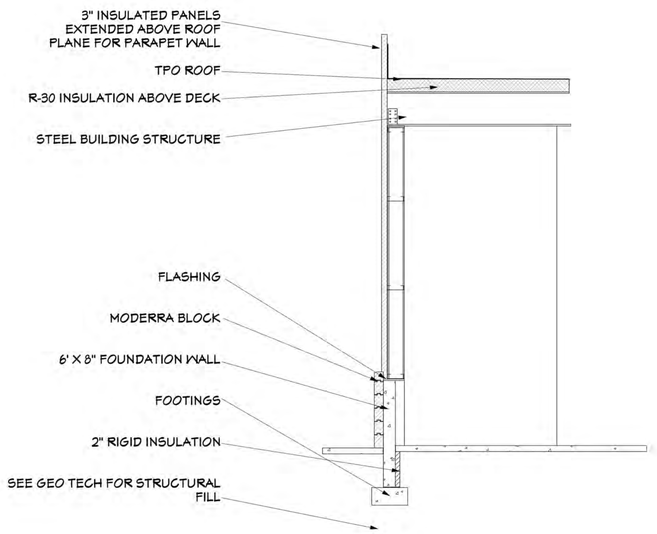
Active Auto
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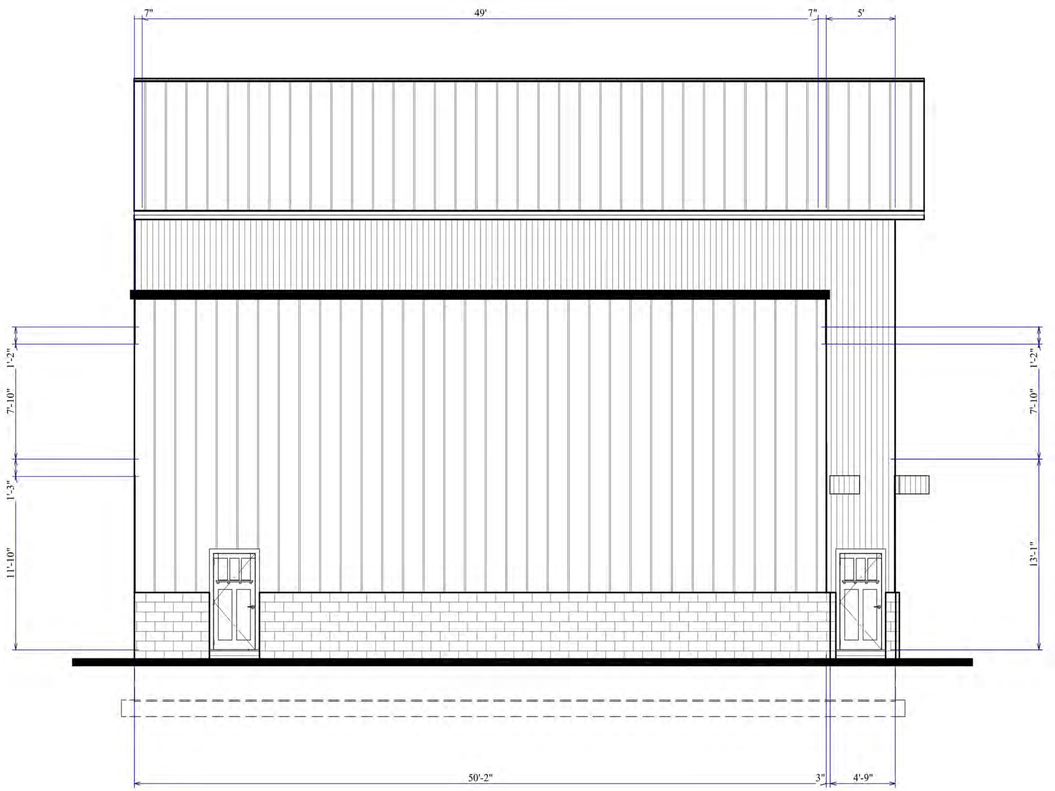
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PAGE A4.1

Exterior Elevations



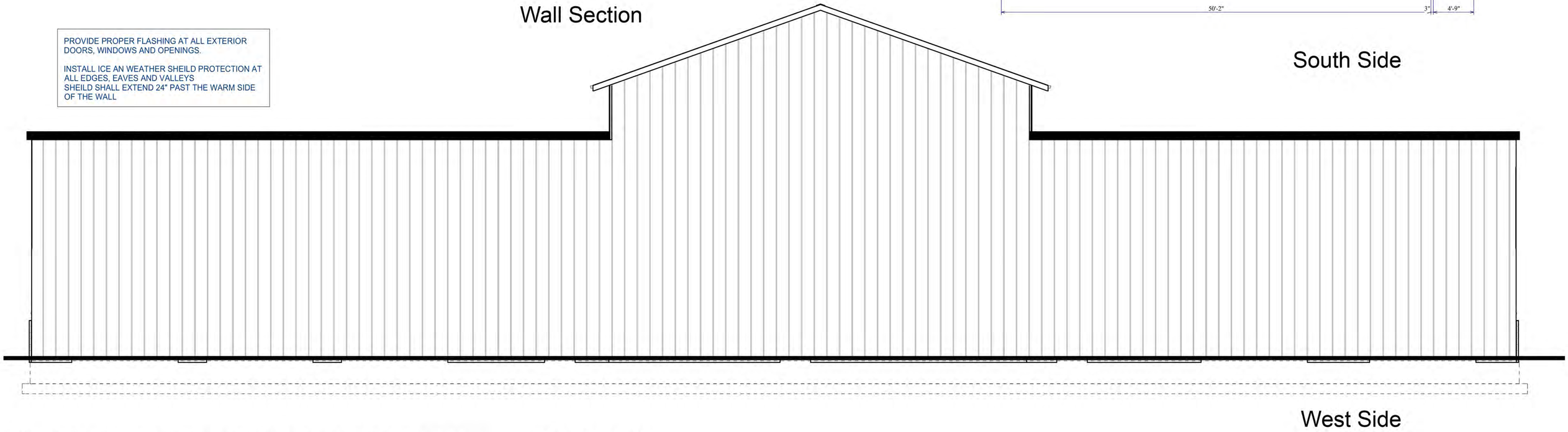
Wall Section



South Side

PROVIDE PROPER FLASHING AT ALL EXTERIOR DOORS, WINDOWS AND OPENINGS.

INSTALL ICE AN WEATHER SHEILD PROTECTION AT ALL EDGES, EAVES AND VALLEYS
SHEILD SHALL EXTEND 24" PAST THE WARM SIDE OF THE WALL



West Side

3/16" 0 1 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48

Scale 3/16" = 1'-0"

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Utah & Hawaii

Architettura Inc.
Terry Judd
Architect
801-310-7031
terrydjudd@gmail.com
Architettura Inc. is a Utah corportation

LICENSED ARCHITECT
Terry Dean Judd
268685
STATE OF UTAH

November 3 2021

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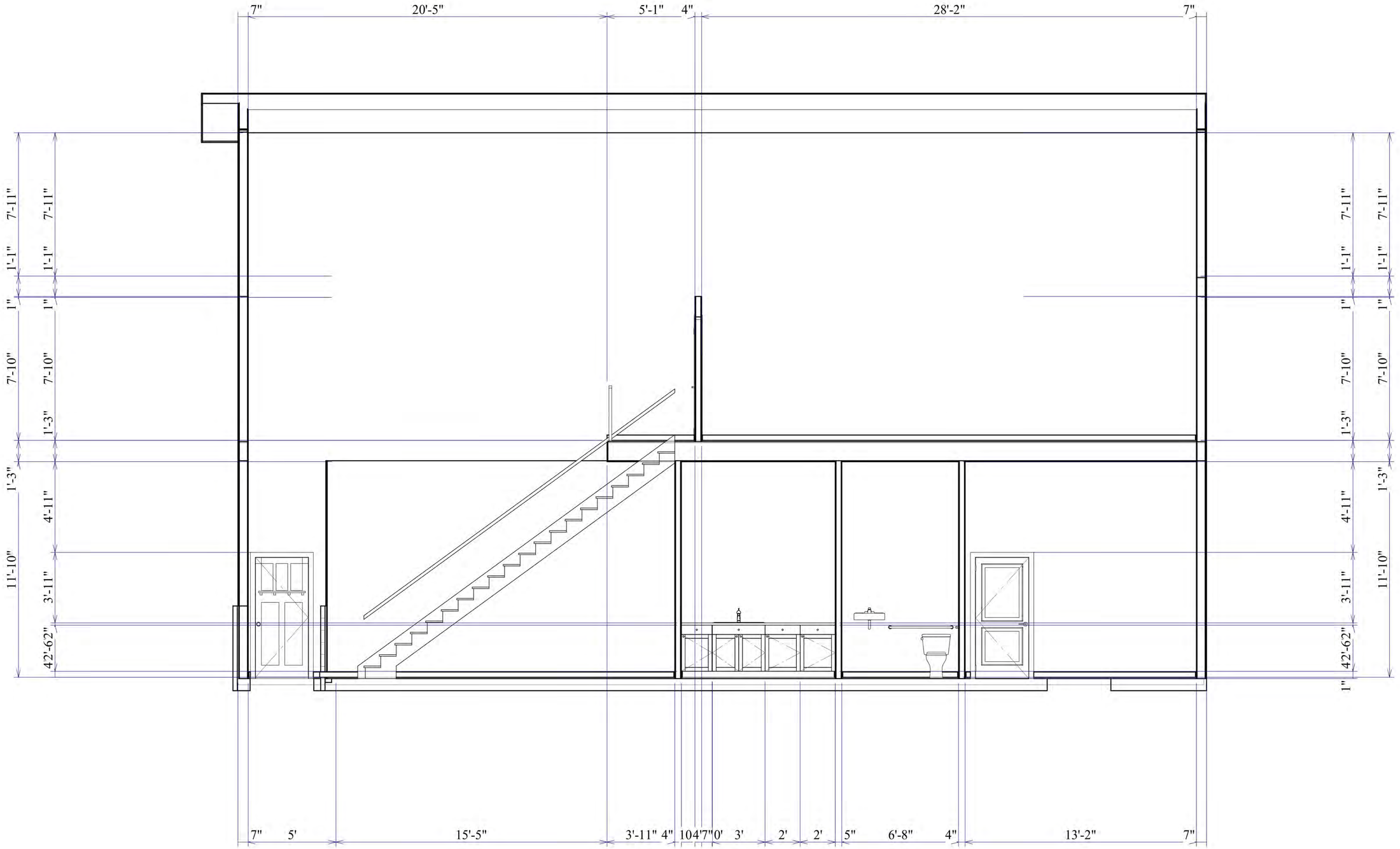
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Spanish Fork, Utah

ACTIV AUTO

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PAGE
A4.2

Exterior Elevations and Wall Section



SECTION DETAIL

3/16" 0 1 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48

Scale 3/16" = 1'-0"

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Architettura Inc.

Terry Judd Architect

801-310-7031

terrydjudd@gmail.com

Utah & Hawaii

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LICENSED ARCHITECT Terry Dean Judd 268685 STATE OF UTAH

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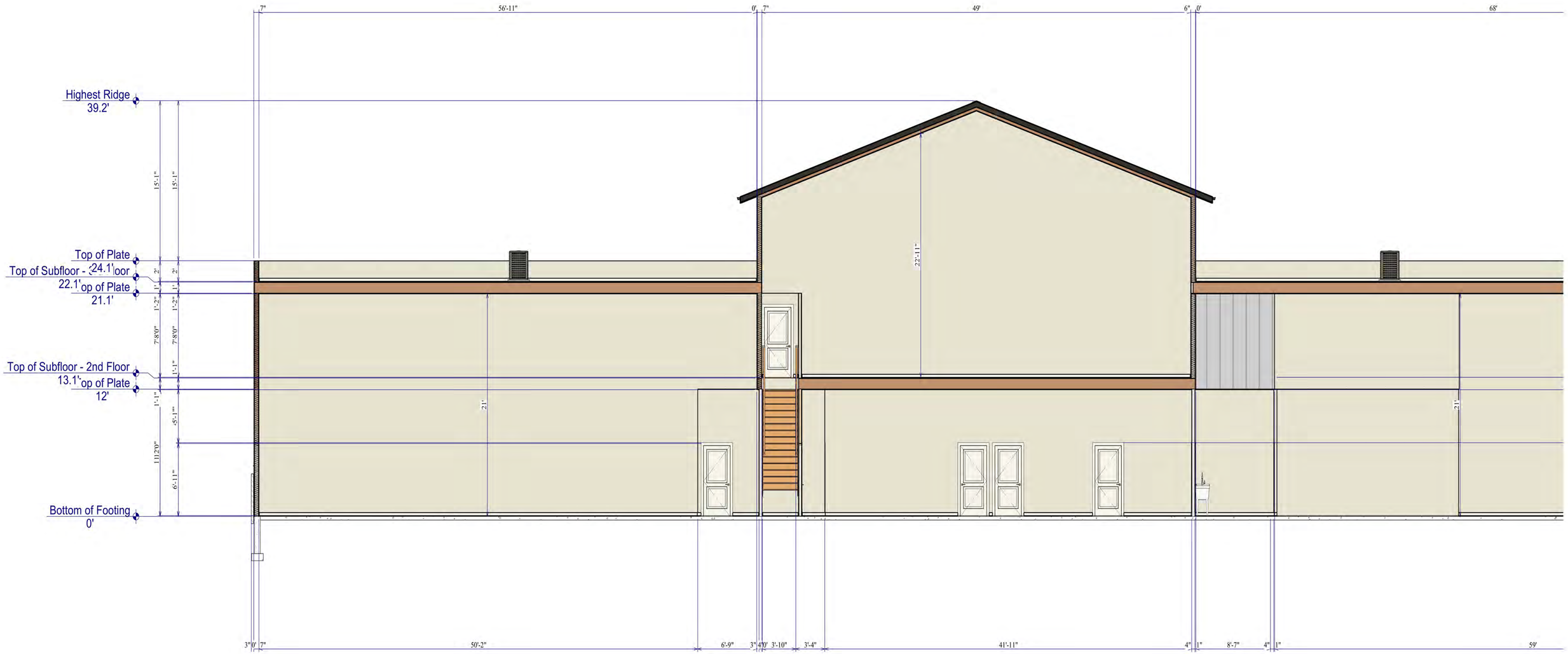
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PAGE A4.3

Building Section and Details



SECTION DETAIL

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Scale 3/16" = 1'-0"

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Utah & Hawaii

Architettura Inc.

Terry Judd
Architect

801-310-7031
terrydjudd@gmail.com

Architettura Inc. is a Utah corportation

LICENSED ARCHITECT
Terry Dean Judd
268685
STATE OF UTAH

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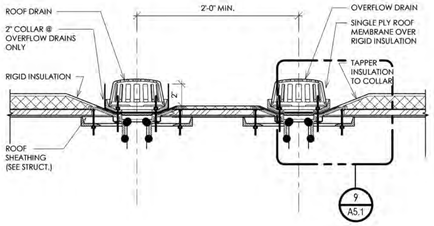
Active Auto
Spanish Fork, Utah

ACTIV AUTO

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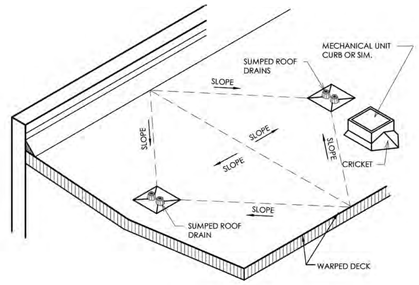
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Building Section and Details



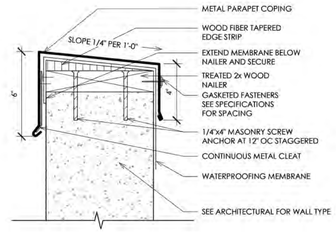
10 A5.1 ROOF DRAIN SECTION DETAIL

1" = 1'-0"



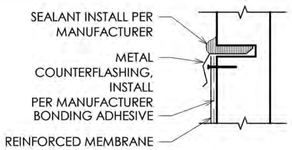
7 A5.1 CRICKET DETAIL

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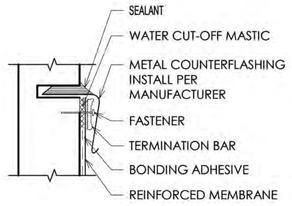


4 A5.1 COPING DETAIL

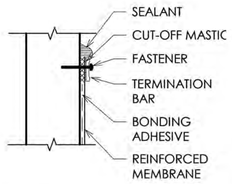
3" = 1'-0"



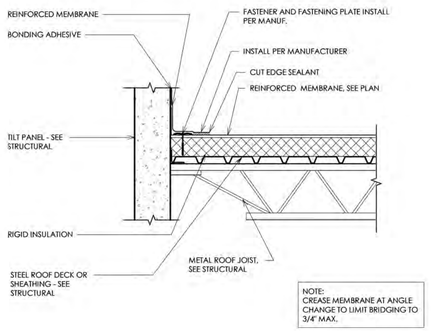
COUNTERFLASHING TERMINATION



MECHANICAL TERMINATION

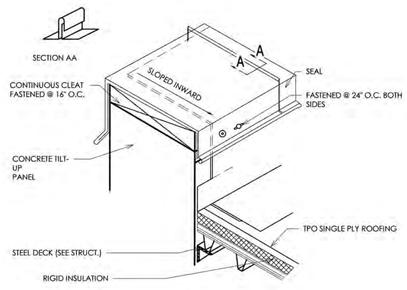


MECHANICAL TERMINATION



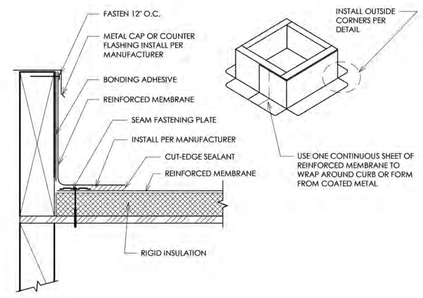
11 FLASHING @ TILT PANEL

1" = 1'-0"



8 A5.1 COPING DETAIL

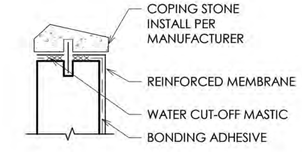
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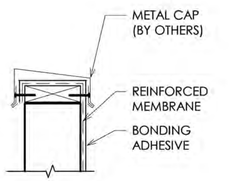
5 A5.1 CURB FLASHING

1" = 1'-0"

BONDING ADHESIVE IS NOT REQUIRED WHEN FLASHING HEIGHT IS 18" OR LESS

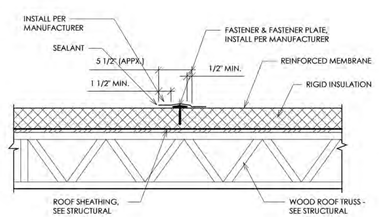


COPING STONE TERMINATION



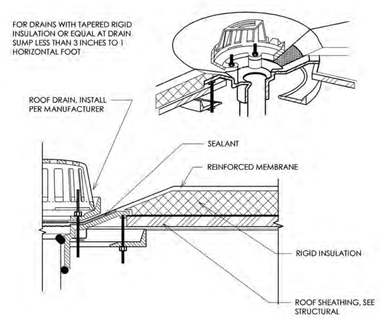
CAP FLASHING TERMINATION

2 A5.1 FLASHING TERMINATIONS



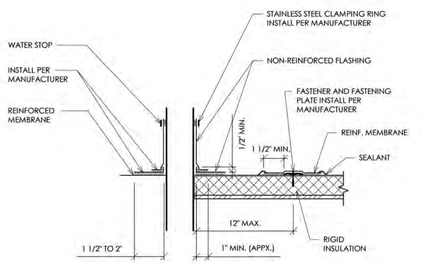
12 A5.1 LAP CROSS SECTION

1" = 1'-0"



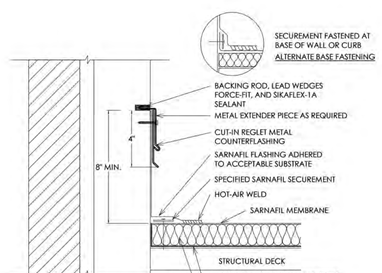
9 A5.1 ROOF DRAIN

1" = 1'-0"



6 A5.1 FIELD FABRICATED PIPE FLASHING

1" = 1'-0"



NOTES:
1) METAL EXTENDER PIECEEXISTING COUNTERFLASHING IS CONTAMINATED AND OR COUNTERFLASHING FASCIA IS LESS THAN 4-INCHES WIDE.
2) METAL COUNTERFLASHING IS TO BE INSTALLED TO MEET LOCAL CODES AND REQUIREMENTS.
3) VAPOR BARRIER SHALL BE SEALED AT EDGES.

3 A5.1 CUT IN REGLET

3" = 1'-0"

DATE	Revision Description	MARK

SHEET NAME

Architettura Inc.
Terry Judd
Architect
801-310-7031
terrydjudd@gmail.com
Utah & Hawaii
Architettura Inc. is a Utah corportation

LICENSED ARCHITECT Terry Dean Judd 268685 STATE OF UTAH

November 3 2021

PROJECT TITLE:

Active Auto
Spanish Fork, Utah

ACTIV AUTO

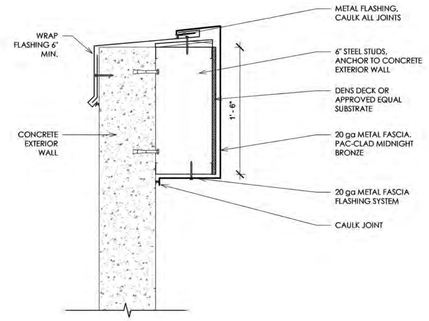
DATE	4/28/2021 JOB # 16-05-20
DRAWN BY	MARK STEVENSON
SCALE	1/4" = 1'-0" UNLESS OTHERWISE SPECIFIED
CHECKED BY:	TERRY JUDD

PAGE A5.1

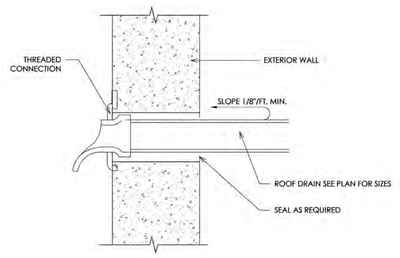
ROOF DETAILS

ROOF HATCH DETAILS:

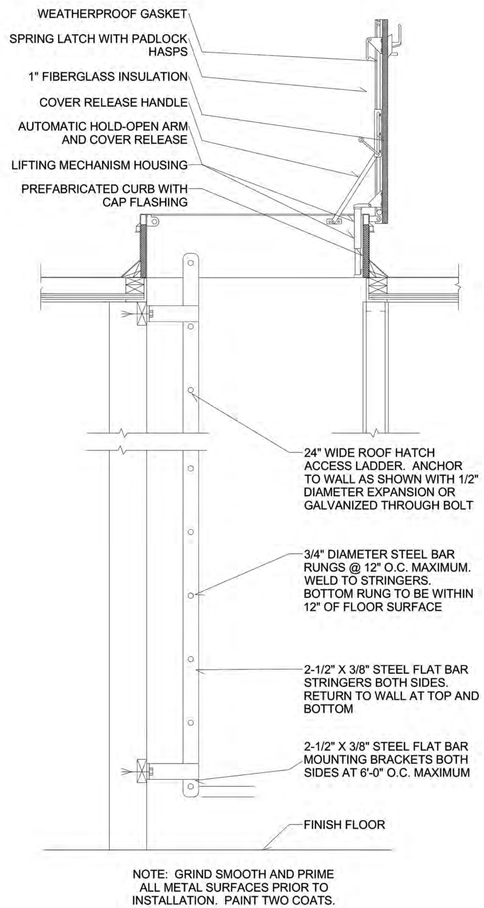
1. The side railing shall extend above the parapet or roof edge not less than 30"
2. Ladders shall have rung spacing not to exceed 14" on center. the uppermost rung shall not be greater than 24" below the upper edge of the roof hatch, roof or parapet.
3. Ladders shall nave a doe spacing not less than 6" deep.
4. There shall be not less than 18" between rails.
5. Rungs shall have a diameter not less than 3/4" inch and be capable of withstanding 300 lb. load.
6. Ladders over 30 feet in height shall be provided with offset sections and landings capable of withstanding 100 lb per sq.ft. landing dimension shall be not less than 18" and not less than the width of the ladder served. a guard rail shall be provided on all open sides of the landing.
7. Climbing clearance. The distance from the centerline of the rungs to the nearest permanent object on the climbing side of the ladder shall be not less than 30 inches measured perpendicular to the rungs. This distance shall be maintained from the point of ladder access to the bottom of the roof hatch. A minimum clear width of 15" shall be provided on both sides of the ladder measured from the midpoint of and parallel with the rungs except where cages or wells are installed.
8. Landing required, The ladder shall be provided with a clear and unobstructed bottom landing area having a minimum dimension or 30 inches by 30 inches, centered in front of the ladder.
9. Ladders shall be protected against corrosion by approved means.
10. Access to ladders shall be provided at all times.



16 A5.2 **TOP OF METAL CAP DETAIL**
1 1/2" = 1'-0"

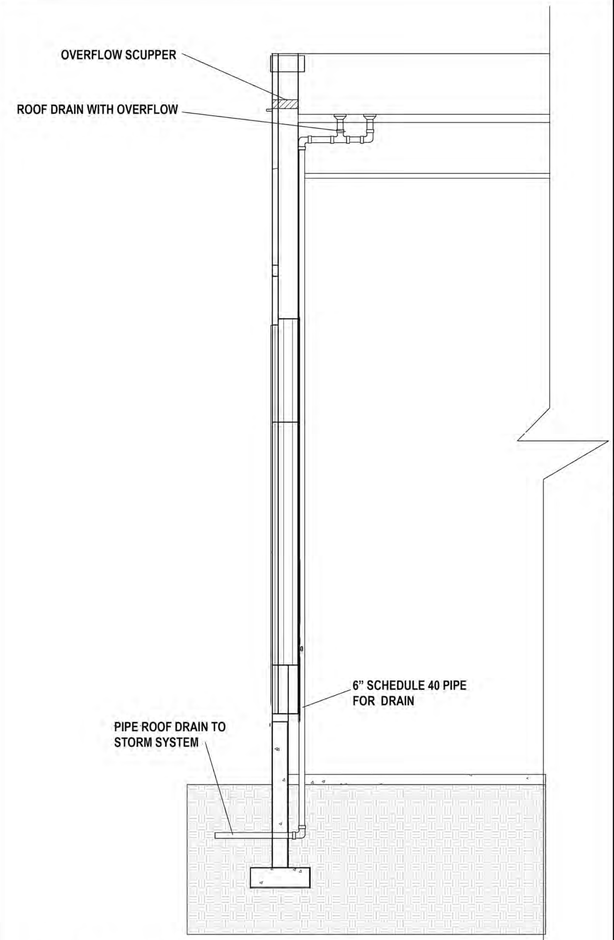


13 A5.2 **OVERFLOW COW-TONGUE DETAIL**
1/8" = 1'-0"

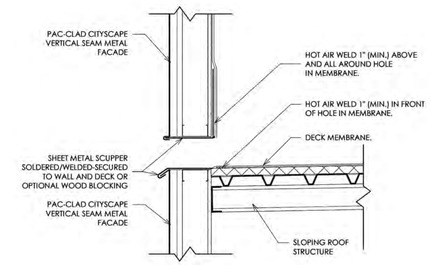


NOTE: GRIND SMOOTH AND PRIME ALL METAL SURFACES PRIOR TO INSTALLATION. PAINT TWO COATS.

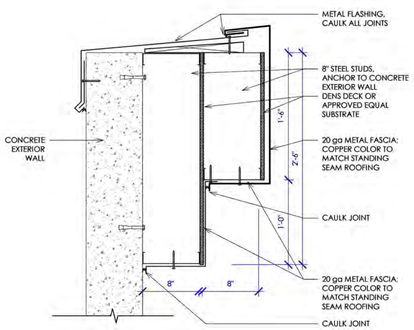
21 A5.2 **ROOF ACCESS HATCH**



18 **ROOF WATER DRAIN SYSTEM**



14 A5.2 **SCUPPER DETAIL**
1 1/2" = 1'-0"



15 A5.2 **TOP METAL CAP DETAIL**
1 1/2" = 1'-0"

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SHEET NO.

Utah & Hawaii

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Terry Judd Architect
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terrydjudd@gmail.com
Architettura Inc. is a Utah corportation

LICENSED ARCHITECT Terry Dean Judd 268685 STATE OF UTAH

November 3 2021

PROJECT TITLE:

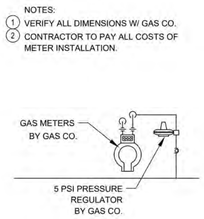
Active Auto
Spanish Fork, Utah

ACTIV AUTO

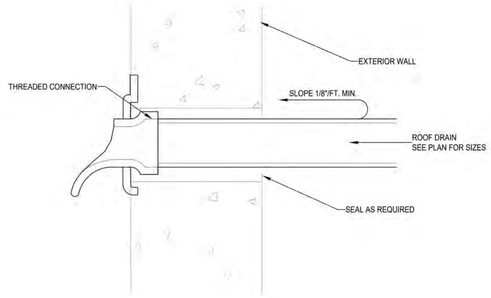
DATE	4/28/2021 JOB # 16-05-20
DRAWN BY	MARK STEVENSON
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PAGE A5.2

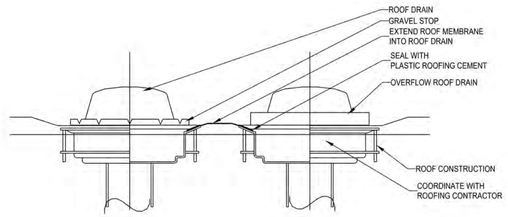
ROOF DETAILS



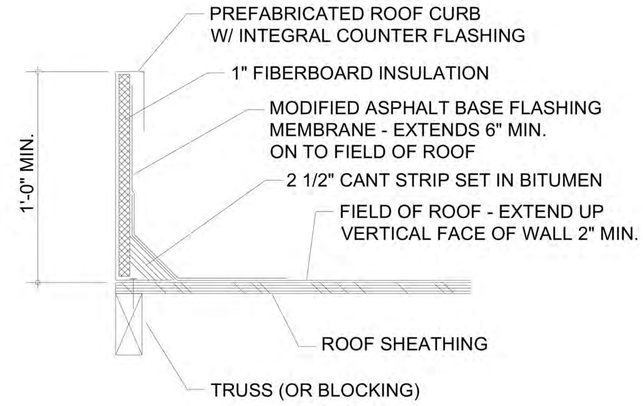
A GAS METER DETAIL
SCALE: NTS



D DOWN SPOUT NOZZLE DETAIL
SCALE: NTS

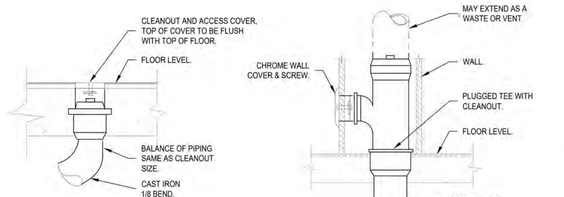


G ROOF DRAIN DETAIL
SCALE: NTS



MECH. ROOF CURB DETAIL

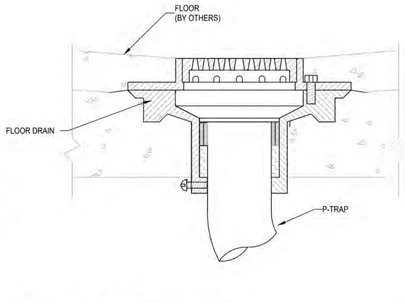
NOT TO SCALE



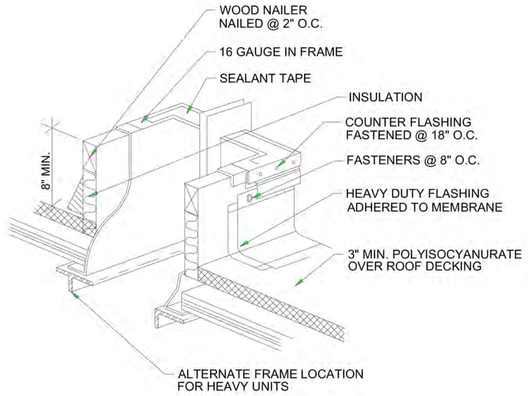
FLOOR CLEAN-OUT

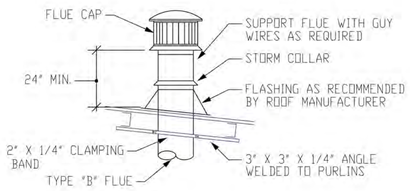
WALL CLEAN-OUT

B CLEANOUT DETAILS
SCALE:



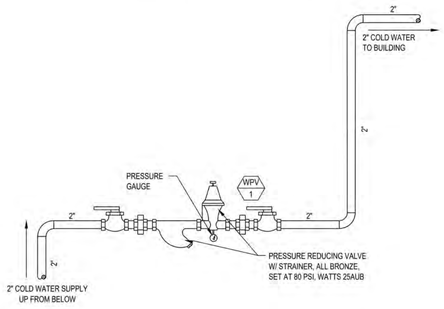
E FLOOR DRAIN DETAIL
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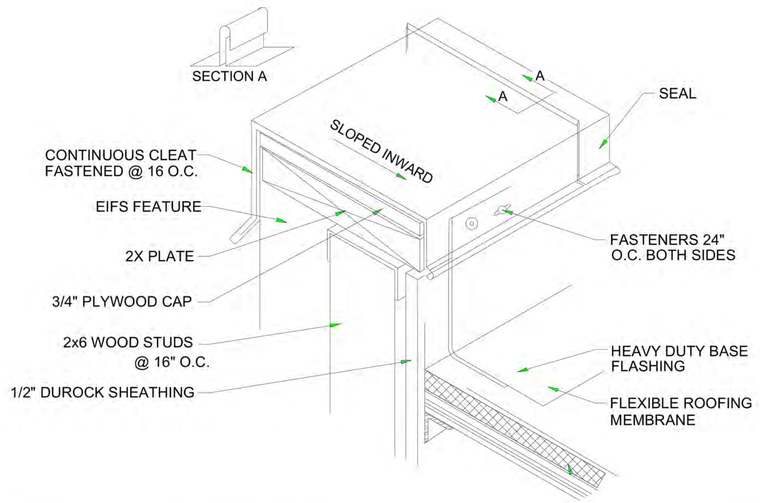


C FLUE CAP DETAIL
SCALE: NTS

NOTE: INSTALL PRESS. REDUCING STATION VALVE ASSY WHEN STREET PRESSURE EXCEEDS 80 PSI



F PRV STATION DETAIL
SCALE: NTS



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Terry Judd
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terrydjudd@gmail.com
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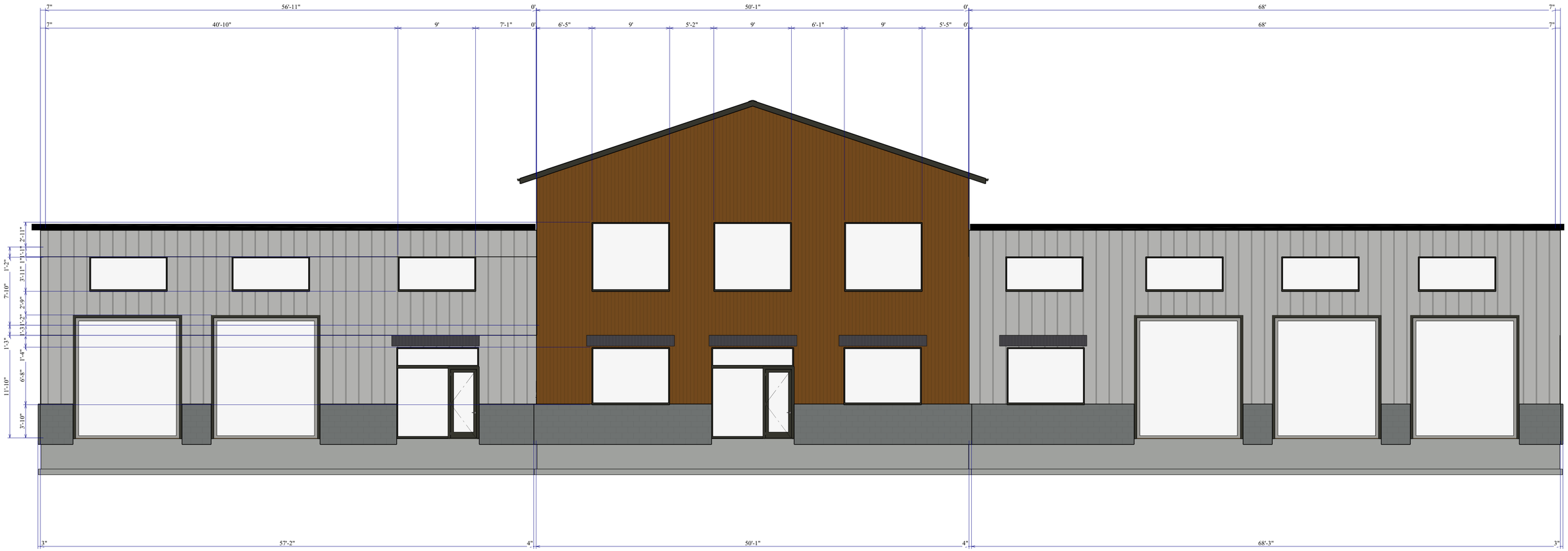
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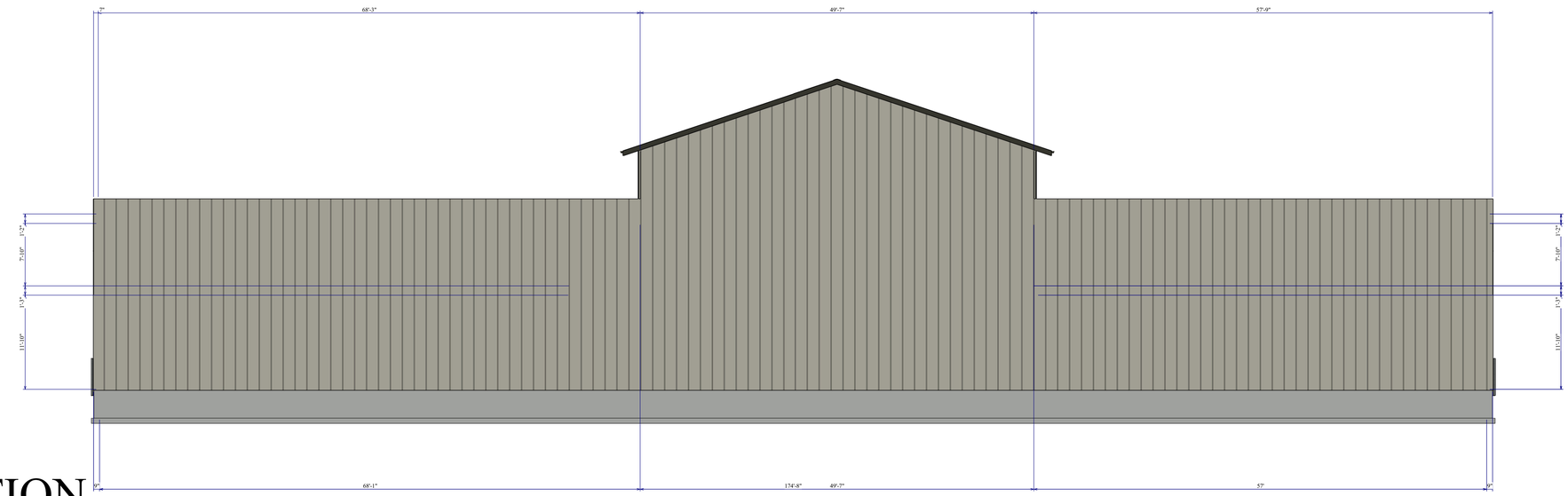
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SCALE	1/4" = 1'-0" UNLESS OTHERWISE SPECIFIED
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PAGE A5.3

DETAILS



FRONT ELEVATION



REAR ELEVATION

N

DATE	Revision Description	MARK

SHEET NAME:

ELEVATIONS

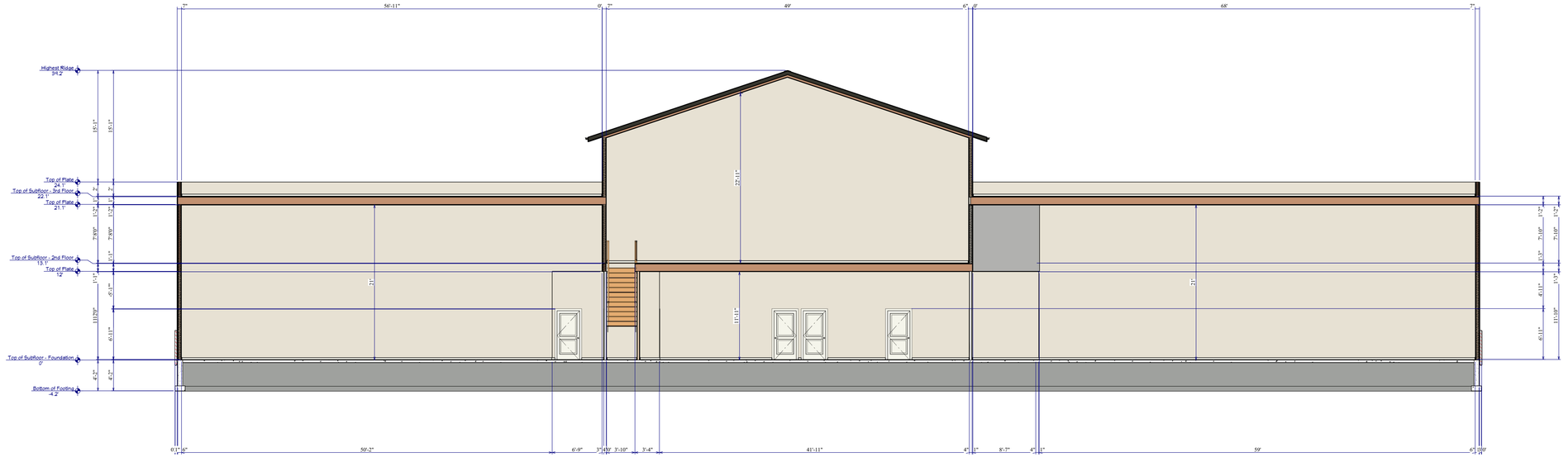
PROJECT TITLE:

ACTIVE AUTO Project
Spanish Fork, Utah

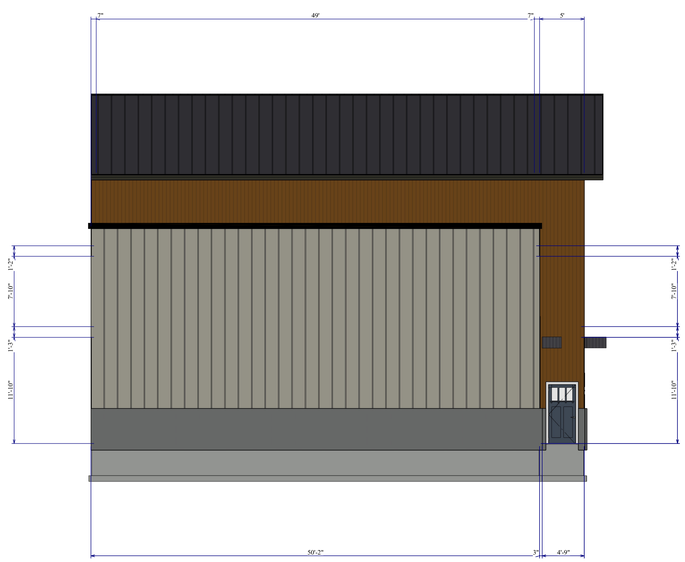
DATE	**4/28/2021**
DRAWN BY	**MARK STEVENSON**
SCALE	1/4" = 1'-0" UNLESS OTHERWISE SPECIFIED
CHECKED BY:	TERRY JUDD

PAGE

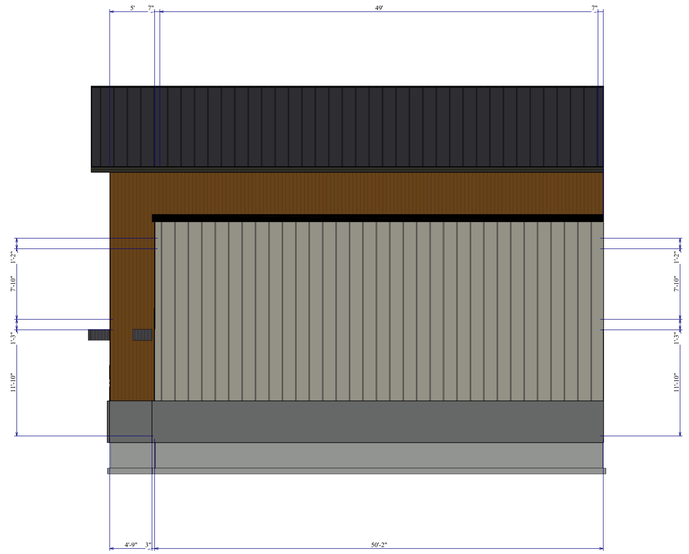
A1.4



SECTION DETAIL



LEFT ELEVATION



RIGHT ELEVATION

N

DATE	Revision Description	MARK

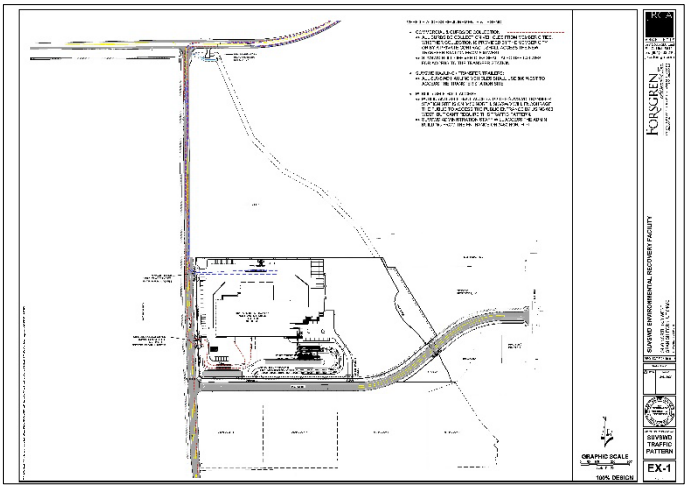
SHEET NAME:

PROJECT TITLE:

ACTIVE AUTO Project
Spanish Fork, Utah

DATE: **4/28/2021**
DRAWN BY: **MARK STEVENSON**
SCALE: 1/4" = 1'-0" UNLESS OTHERWISE SPECIFIED
CHECKED BY: TERRY JUDD

PAGE
A2.0





SPANISH FORK
COMMUNITY DEVELOPMENT

SUVSWD Environmental Recovery and Transfer Center Conditional Use Permit and Site Plan Approval Request

March 9, 2022, Development Review Committee Meeting.

Located at approximately 3450 North 400 West, including 22.5 acres, of which 14.58 acres will be developed.

The subject property is zoned P-F.

The applicant has requested that a Conditional Use and Site Plan be approved. The applicant is proposing to operate a Solid Waste Transfer Facility, provided that all operating aspects of the facility are fully enclosed within a building and the grounds are completely fenced.

Key Issues

1. Proposal's conformity with the City's Zoning Code.
2. Potential impacts and mitigation of the Proposed Use.
3. Improvements.
4. Subdivision.
5. Landscaping.
6. Lighting.
7. Signage.

Exhibits

1. Site Plan.
2. Plat.
3. Landscaping.
4. Building Plans.
5. Elevations.
6. Memo.

Recommendation

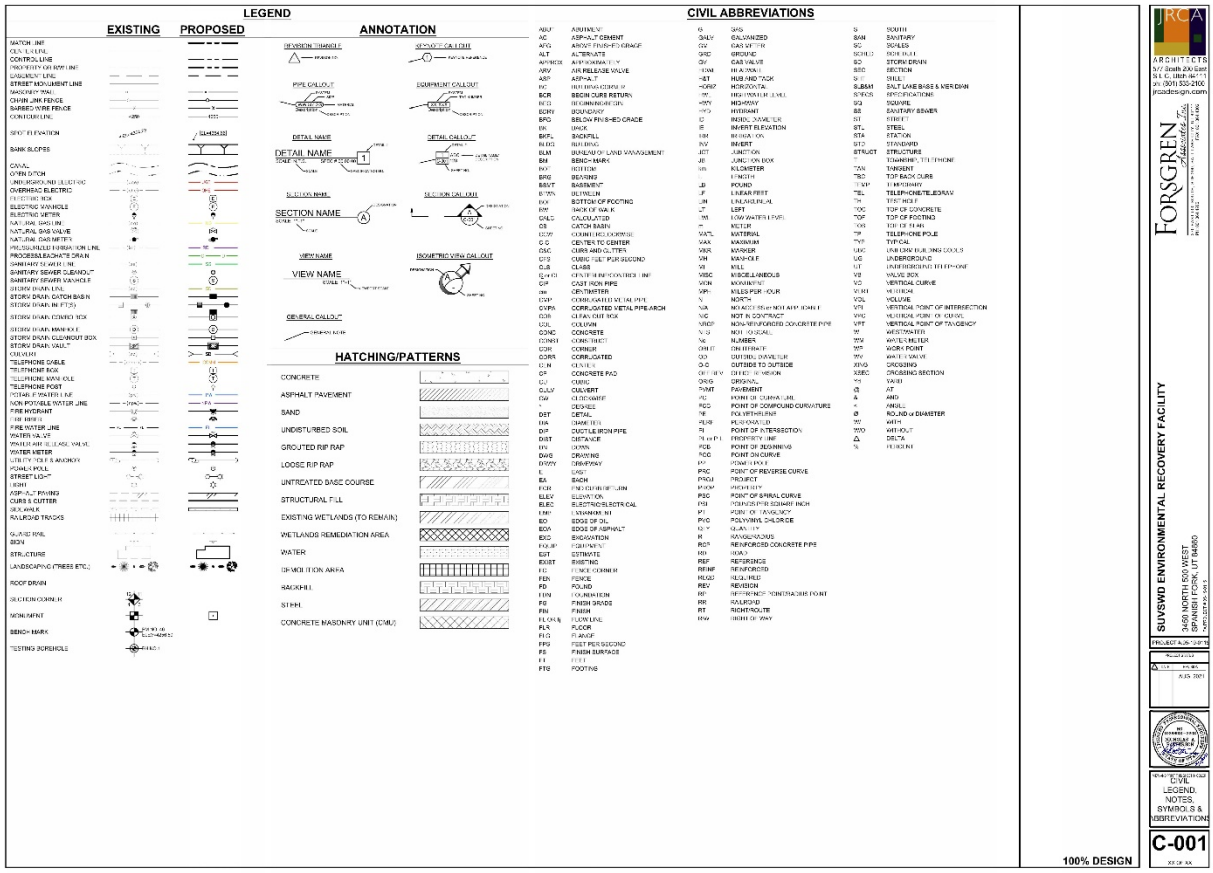
That the proposed Conditional Use and Site Plan be recommended for approval based on the following finding and subject to the following conditions:

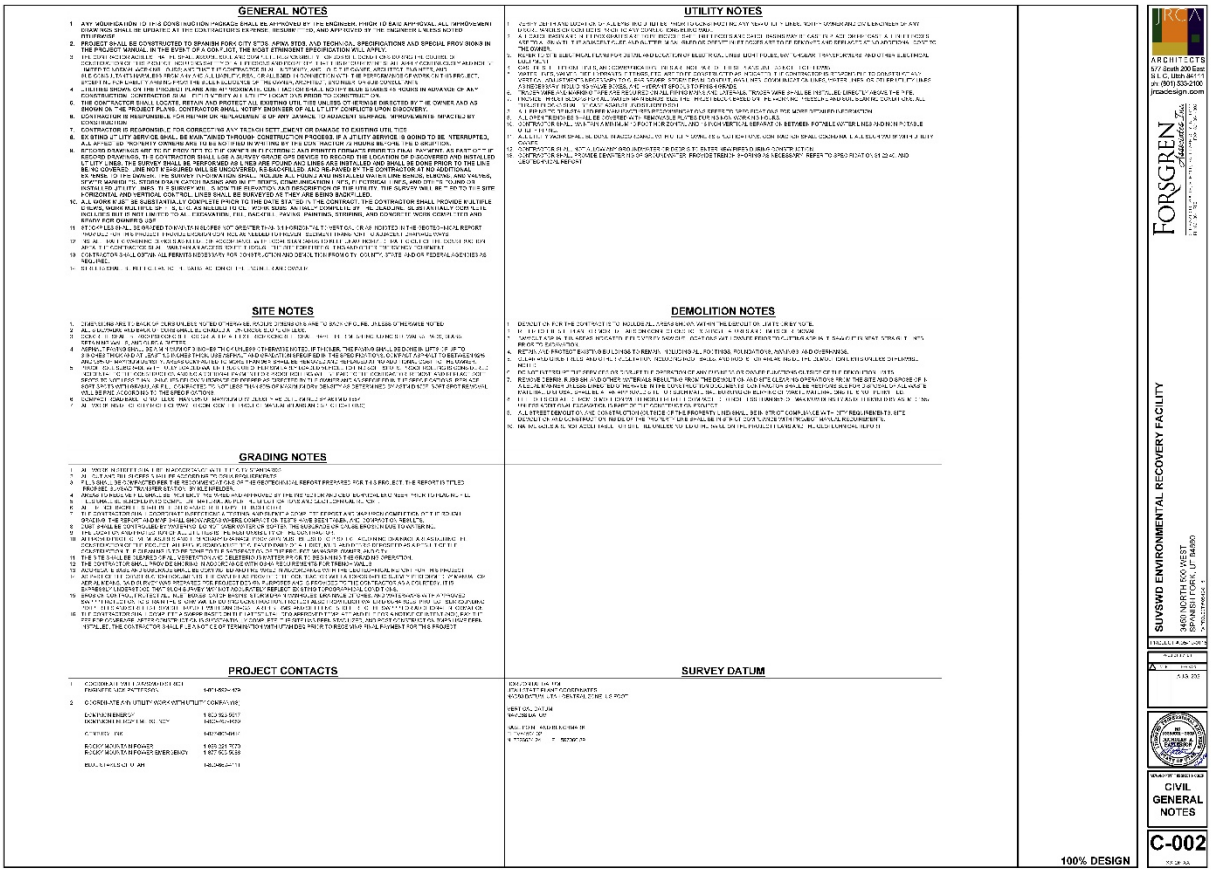
Finding

1. That the proposal requires a Conditional Use Permit in the P-F zoning district.

Conditions

1. That the applicant meets the City's Zoning Requirements and Construction Standards.
2. That the applicant addresses any red-lines.
3. That the approvals given are contingent upon recordation of the subdivision and road dedication plat and completion of the associated improvements.
4. That an Operations and Maintenance Plan be provided to the City. The Plan should include information on equipment that will be employed to reduce odors, regulations pertaining to uncovered loads, truck routes, hours of operation and information about how long garbage will be kept on-site.
5. Annual review of the Plan with the City to make potential modifications or improvements to the Plan to best address or mitigate impacts of the use.
6. That all loaded trailers will be stored indoors overnight and on the weekends.
7. That trucks, equipment and trailers be cleaned on a regular basis to reduce potential odors.
8. Provided that all operating aspects of the facility are fully enclosed within a building and the grounds are completely fenced.


LEGEND
EXISTING
PROPOSED
ANNOTATION
HATCHING/PATTERNS
CONCRETE
ASPHALT PAVEMENT
SAND
UNDISTURBED SOIL
GROUTED RIP RAP
LOOSE RIP RAP
UNTREATED BASE COURSE
STRUCTURAL FILL
EXISTING WETLANDS (TO REMAIN)
WETLANDS REMEDIATION AREA
WATER
DEMOLITION AREA
BACKFILL
STRIPPING
CONCRETE MASONRY UNIT (CMU)
CIVIL ABBREVIATIONS
100% DESIGN
JRCA
ARCHITECTS
FORSGREN Associates Inc.
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3450 NORTH 500 WEST
SPANISH FORK, UT 84660
CIVIL LEGEND, NOTES, SYMBOLS & ABBREVIATIONS
C-001



GENERAL NOTES

1. ANY MODIFICATION TO THE CONSTRUCTION PACKAGE SHALL BE APPROVED BY THE ENGINEER PRIOR TO BASE APPROVAL. ALL IMPROVEMENT WORK WILL SHALL BE UPDATED AT THE CONTRACTOR'S EXPENSE. RESUBMITTED AND APPROVED BY THE ENGINEER UNLESS NOTED OTHERWISE.
2. PROJECT SHALL BE CONSTRUCTED TO SPANISH FORK CITY STDS. APWA STDS. AND TECH SPECIFICATIONS AND SPECIAL PROVISIONS IN THE PROJECT MANUAL IN THE EVENT OF A CONFLICT, THE MORE STRINGENT SPECIFICATION WILL APPLY.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE CONSTRUCTION SITE AND ADJACENT PROPERTIES DURING CONSTRUCTION. THIS INCLUDES BUT IS NOT LIMITED TO, NOTIFYING ALL UTILITY COMPANIES OF THEIR INTENT TO EXCAVATE AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION, AND ANY OTHER PRECAUTIONS NECESSARY TO PROTECT THE PUBLIC AND PROPERTY.
4. UTILITIES SHOWN ON THE PROJECT PLANS ARE APPROXIMATE. CONTRACTOR SHALL NOTIFY BLUE STAKES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION. CONTRACTOR SHALL POT HOLE VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL LOCATE, REPAIR AND PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE DIRECTED BY THE OWNER AND AS SHOWN ON THE PROJECT PLANS. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL UTILITY CONFLICTS UPON DISCOVERY.
6. CONTRACTOR IS RESPONSIBLE FOR PAYMENT OF ALL FEES FOR ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS IMPACTED BY CONSTRUCTION.
7. CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY TRENCH SETTLEMENT OR DAMAGE TO EXISTING UTILITIES
8. EX STING UT LITY SERV CE SHALL BE MA NTA NED THROUGH CONSTRUCTION PROCESS. IF A UTILITY SERVICE IS GOING TO BE INTERRUPTED, ALL AFFECTED PROPERTY OWNERS ARE TO BE NOTIFIED IN WRITING BY THE CONTRACTOR A MINIMUM OF 48 HOURS BEFORE THE INTERRUPTION.
9. RECORD DRAWINGS ARE TO BE KEPT UP TO DATE BY THE OWNER'S REPRESENTATIVE AND PRINTED COPIES PROVIDED TO THE ENGINEER FOR FINAL PAYMENT. AS PART OF THE RECORD DRAWINGS, THE CONTRACTOR SHALL USE A SURVEY GRADE GPS DEVICE TO RECORD THE LOCATION OF ALL STORM DRAIN BOXES, INLETS, MANHOLES, CLEANOUTS, AND ALL OTHER STORM DRAIN APPURTENANCES INSTALLED AS PART OF THIS PROJECT. THE SURVEY SHALL BE PERFORMED AS THE WORK IS BEING COMPLETED AND PRIOR TO BACKFILLING OF TRENCHES. THE SURVEY SHALL BE PERFORMED BY A LICENSED SURVEYOR IN THE STATE OF UTAH. THE SURVEY SHALL INCLUDE ALL PIPING AND STRUCTURES ASSOCIATED WITH THE STORM DRAIN SYSTEM, INCLUDING ALL PIPING AND INVERT ELEVATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE SURVEYOR TO ENSURE ALL UTILITIES ARE LOCATED AND SURVEYED. THE SURVEY SHALL BE PROVIDED IN BOTH HORIZONTAL AND VERTICAL CONTROL. LINES SHALL BE SURVEYED AS THEY ARE BEING BACKFILLED.
10. ALL WORK AS BE SUBSTANTIALLY COMPLETE PRIOR TO THE DATE STATED IN THE CONTRACT. THE CONTRACTOR SHALL PROVIDE MULTIPLE CREWS, WORK MULTIPLE SHIFTS, AS NEEDED TO COMPLETE ALL WORK SUBSTANTIALLY COMPLETE INCLUDES BUT IS NOT LIMITED TO ALL EXCAVATION, FILL, BACKFILL, PAVING, PAINTING, STRIPING, AND CONCRETE WORK COMPLETED AND READY FOR OWNER'S USE.
11. STOCKPILES SHALL BE PROTECTED WITH BERMS 50% GREATER THAN STRUCTURAL TO PREVENT SEDIMENT FROM LEAVING THE SITE.
12. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT. THE CONTRACTOR SHALL OBTAIN A COPY OF THE REPORT AND BECOME FAMILIAR WITH ITS CONTENTS.
13. CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CONSTRUCTION AND DEALT WITH PROPERLY COUNTY, STATE AND/OR FEDERAL AGENCIES AS REQUIRED.
14. [illegible]

UTILITY NOTES

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12. [illegible]
13. [illegible]

SITE NOTES

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DEMOLITION NOTES

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GRADING NOTES

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PROJECT CONTACTS

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2. [illegible]

SURVEY DATUM

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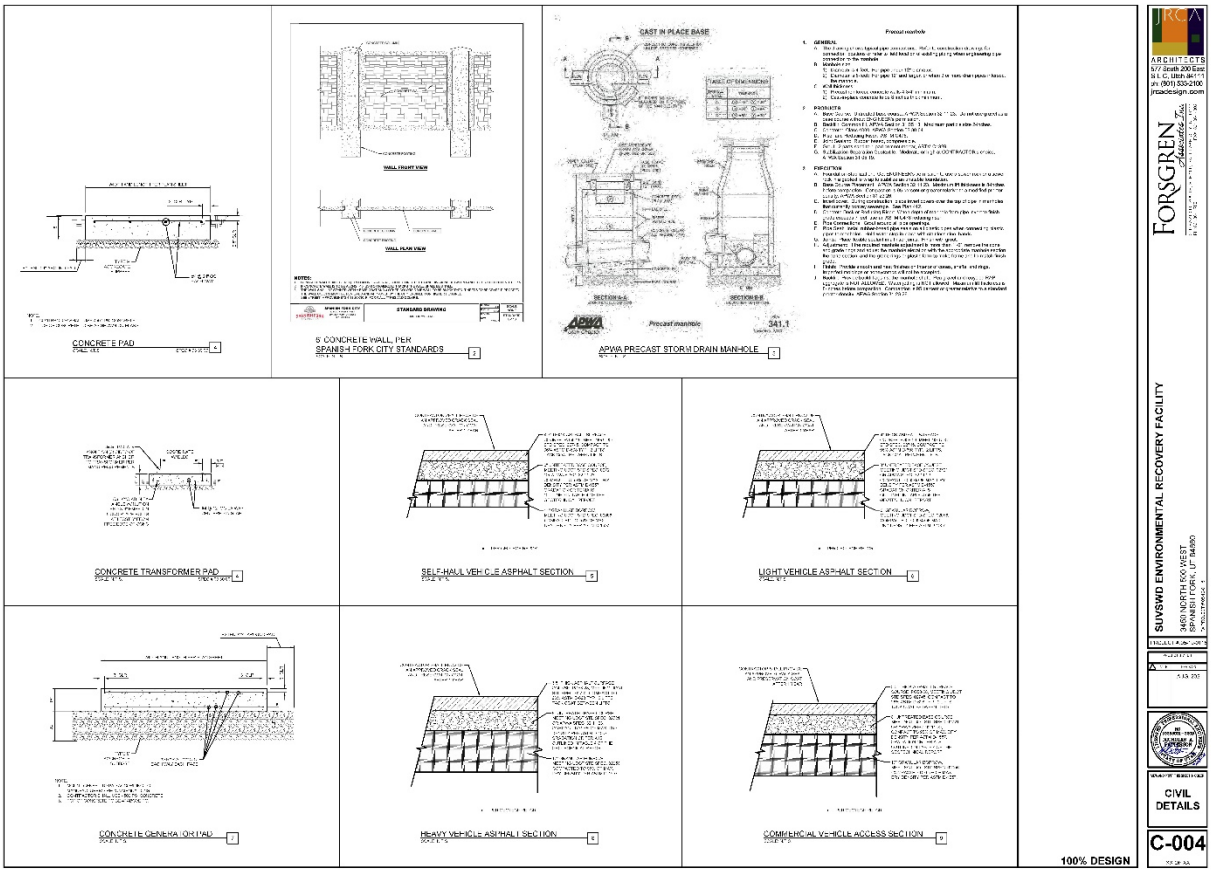
ARCHITECTS
577 South 200 East
S.L.C., Utah 84111
ph. (801) 533-2100
jrcadesign.com

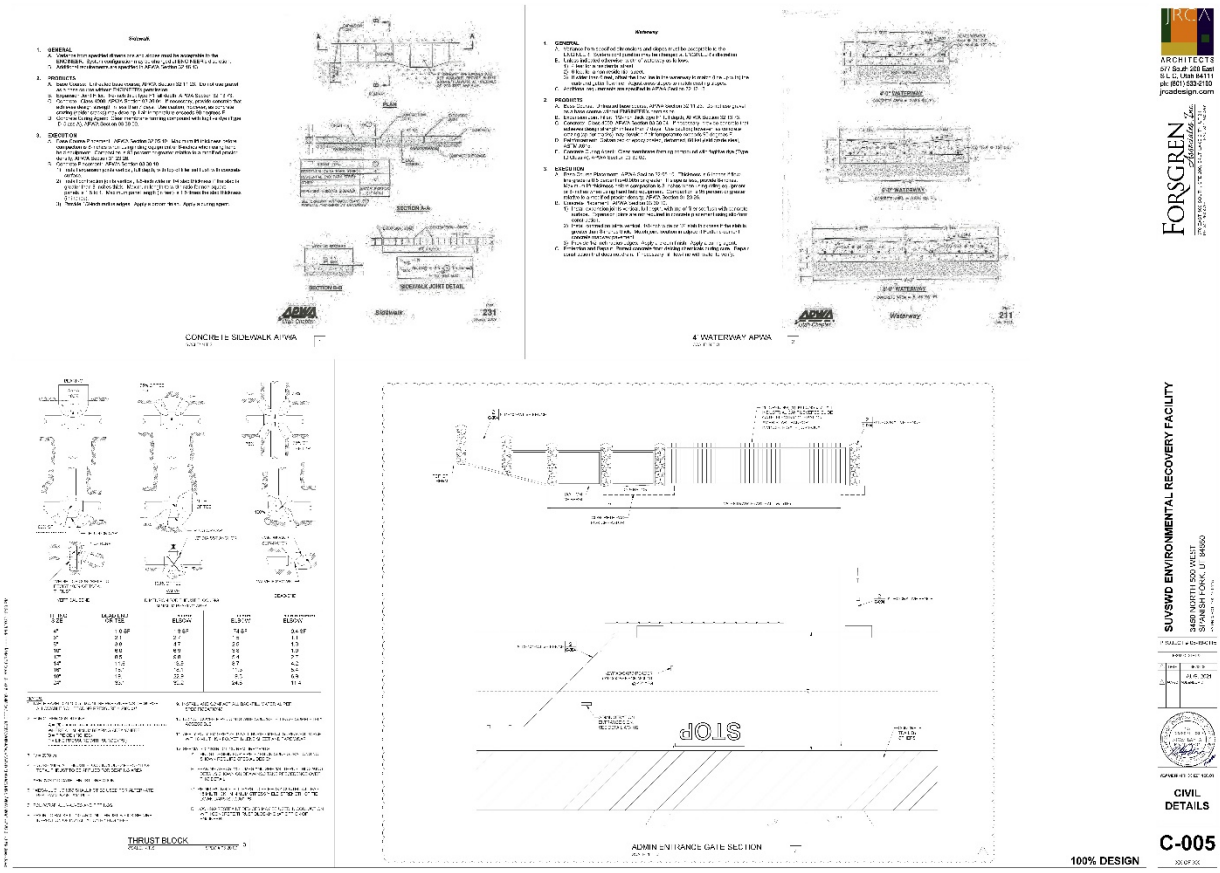
FORSGREN Associates Inc.

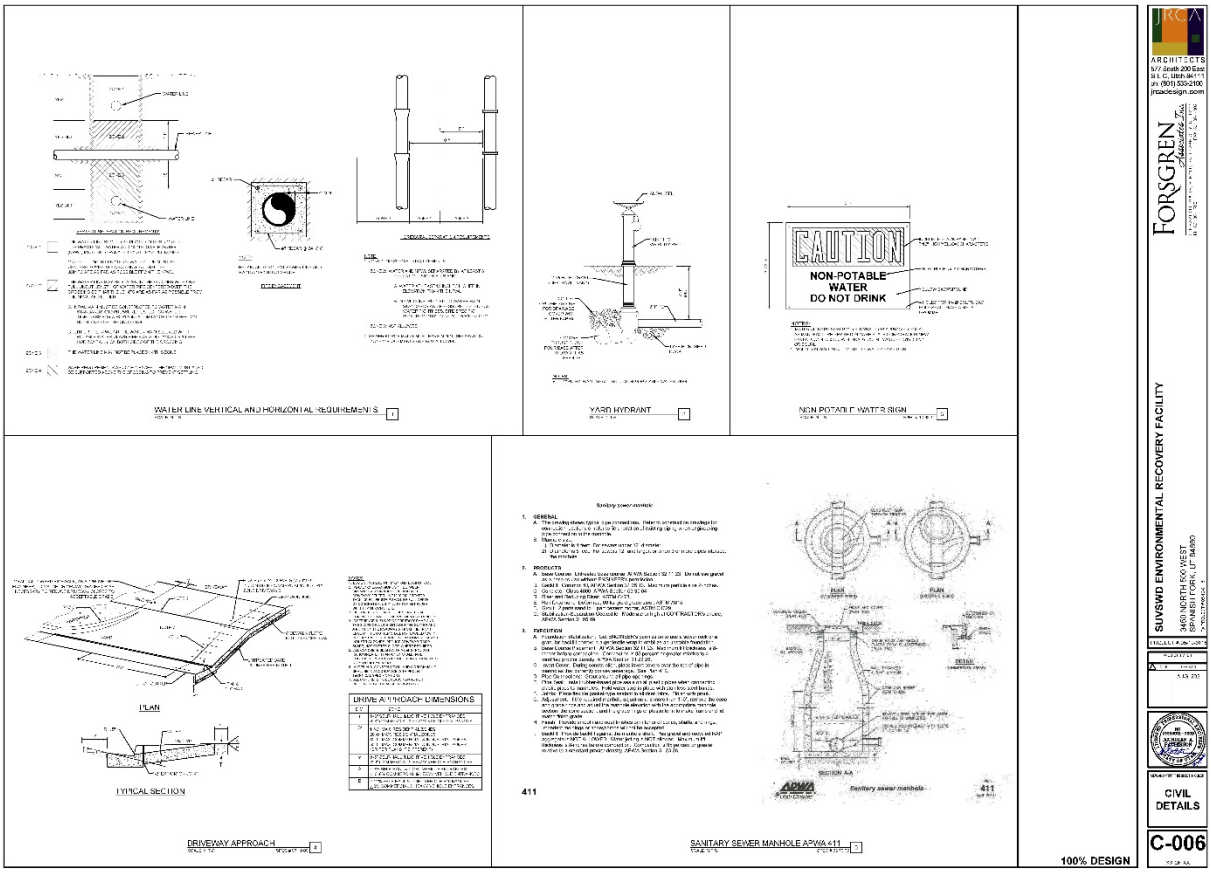
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3460 NORTH 600 WEST
SPANISH FORK, UT 84660

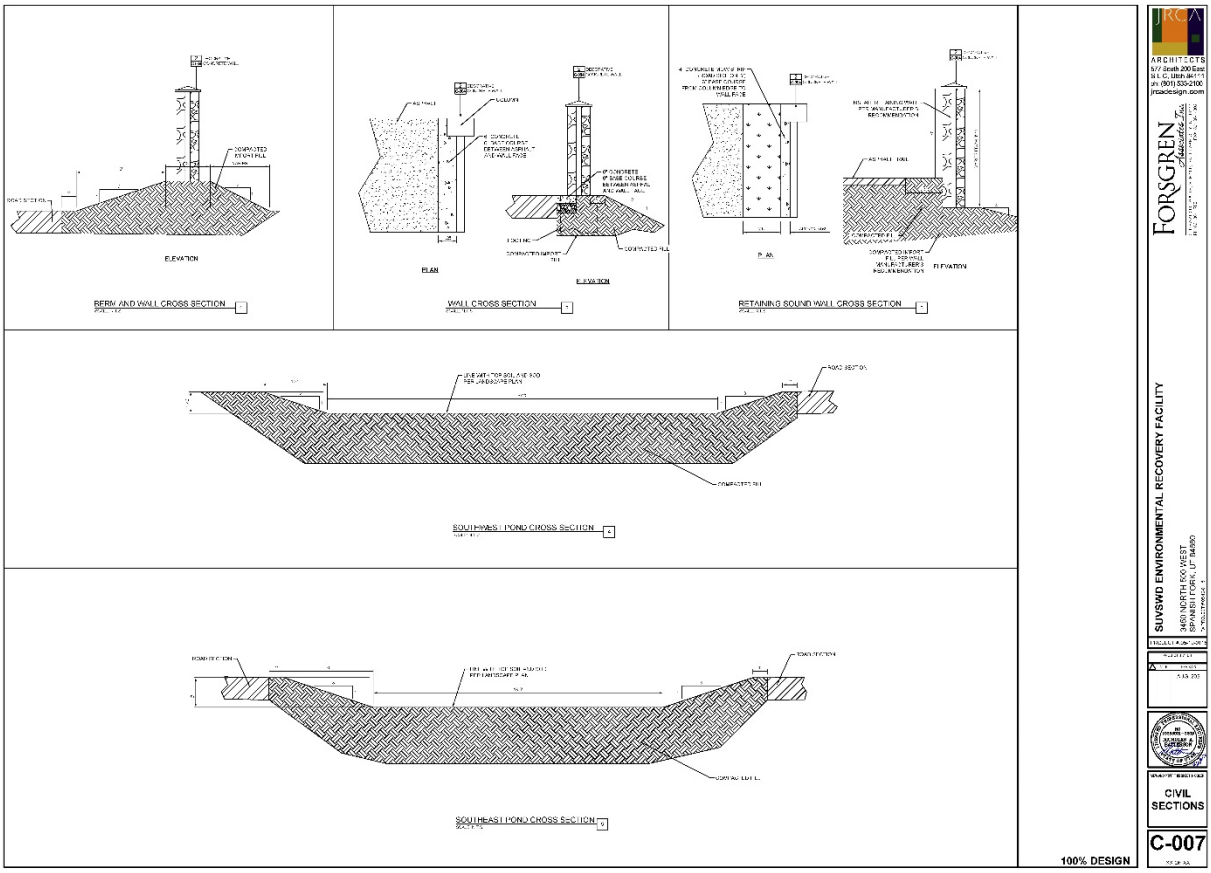
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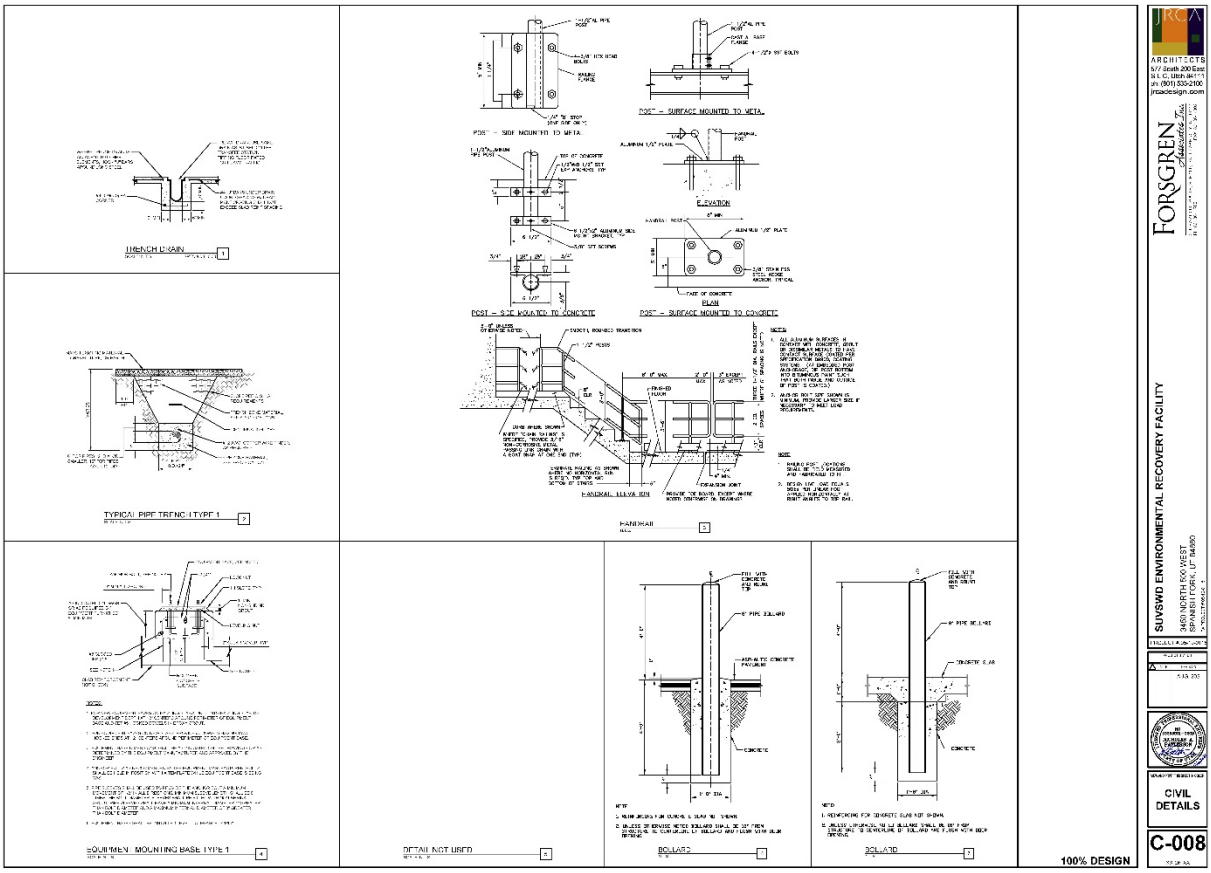
C-002

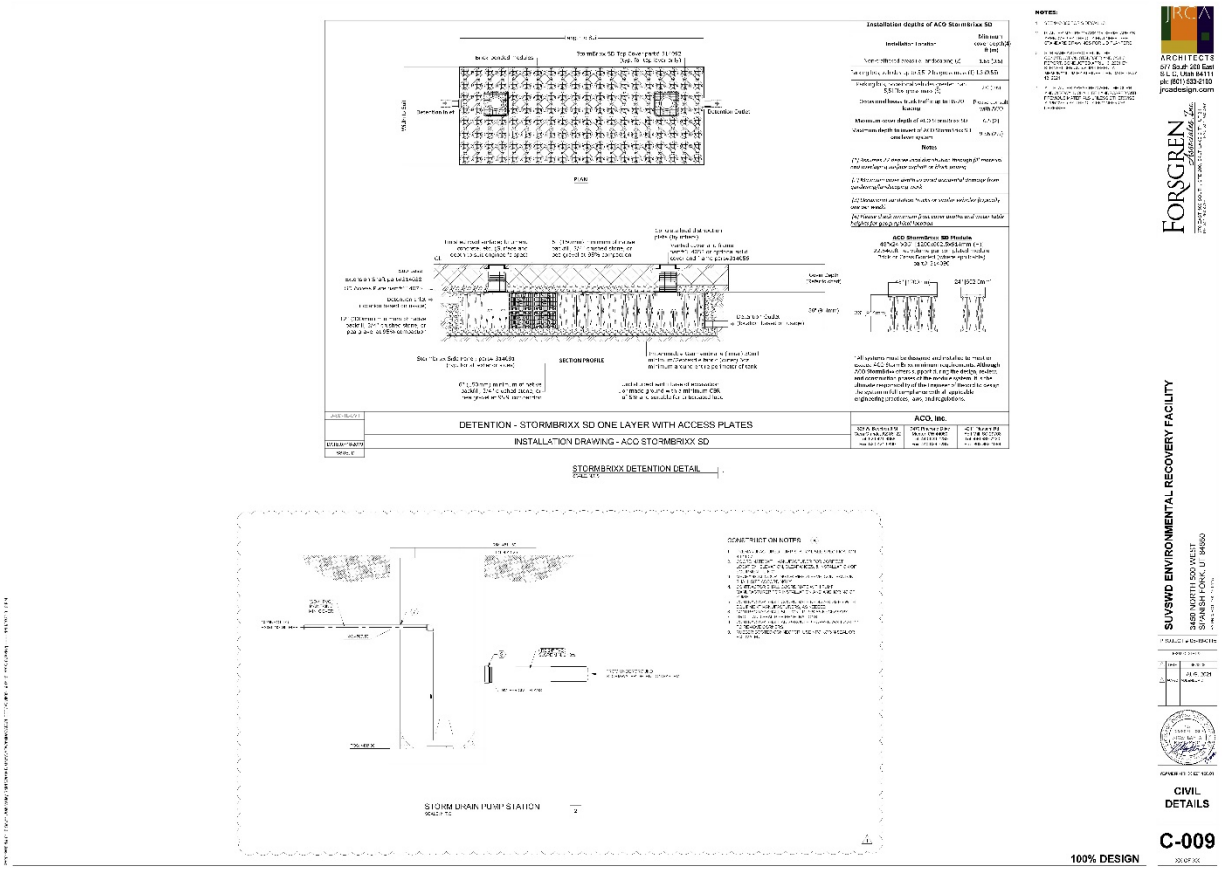

CONCRETE PAD
5' CONCRETE WALL PER SPANISH FORK CITY STANDARDS
APWA PRECAST STORM DRAIN MANHOLE
CONCRETE TRANSFORMER PAD
SELF-HAUL VEHICLE ASPHALT SECTION
LIGHT VEHICLE ASPHALT SECTION
CONCRETE GENERATOR PAD
HEAVY VEHICLE ASPHALT SECTION
COMMERCIAL VEHICLE ACCESS SECTION
100% DESIGN
ARCHITECTS
577 South 200 East
S.L.C., Utah 84111
ph: (801) 533-2100
jrsadesign.com
FORSGREN Associates Inc.
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3460 NORTH 600 WEST
SPANISH FORK, UT 84660
CIVIL DETAILS
C-004

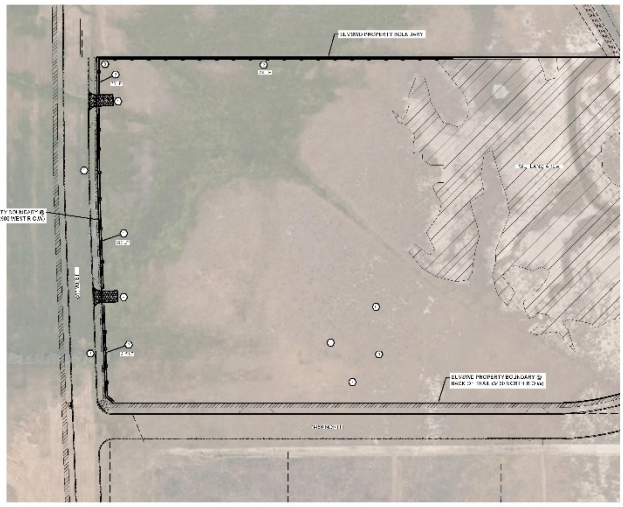

CONCRETE SIDEWALK APWA
4 WATERWAY APWA
THRUST BLOCK
ADMIN ENTRANCE GATE SECTION
STOP
ARCHITECTS
FORSGREN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
CIVIL DETAILS
C-005
100% DESIGN

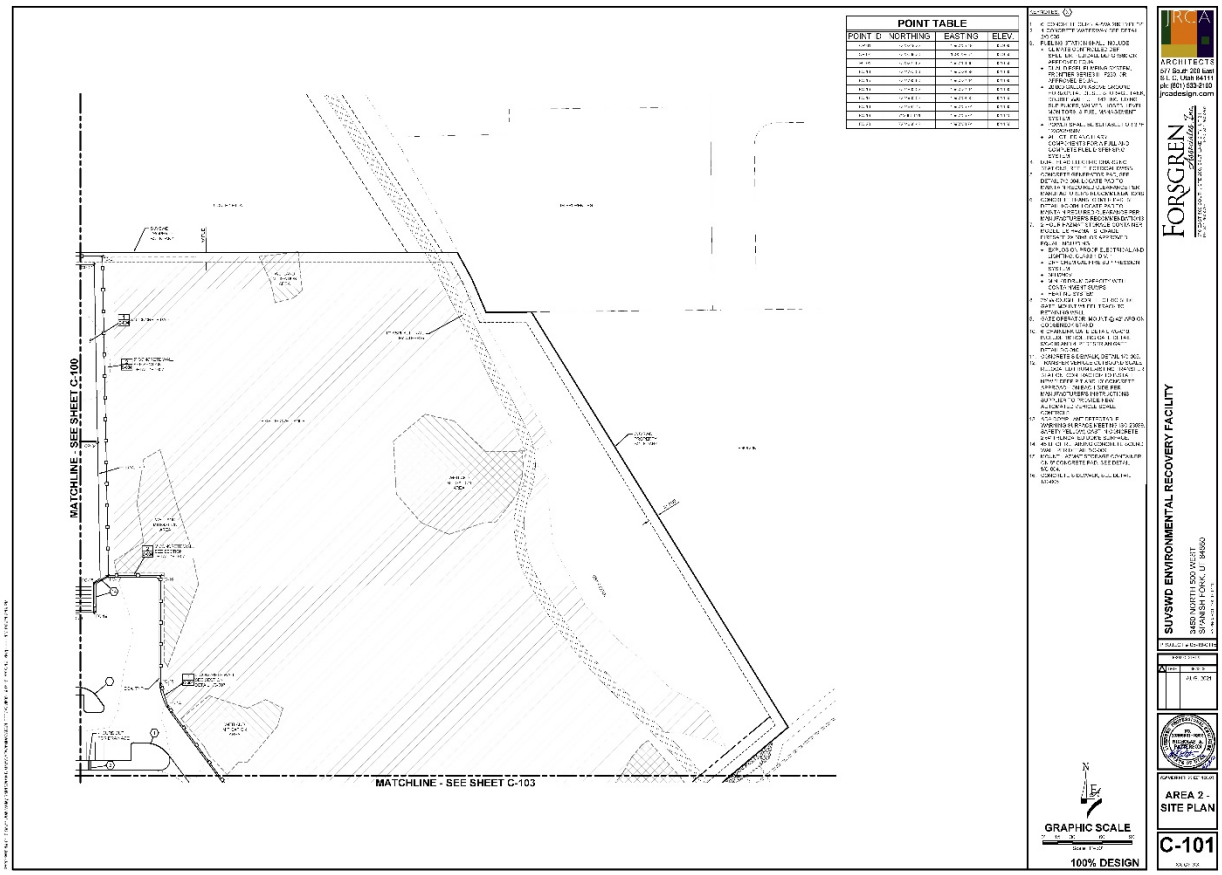

WATER LINE VERTICAL AND HORIZONTAL REQUIREMENTS
YARD HYDRANT
CAUTION
NON-POTABLE
WATER
DO NOT DRINK
NON POTABLE WATER SIGN
PLAN
TYPICAL SECTION
DRIVE APPROACH DIMENSIONS
DRIVEWAY APPROACH
411
SECTION AA
SANITARY SEWER MANHOLE APWA 411
100% DESIGN
JRCA
ARCHITECTS
FORSGREN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3460 NORTH 600 WEST
SPANISH FORK, UT 84660
CIVIL
DETAILS
C-006

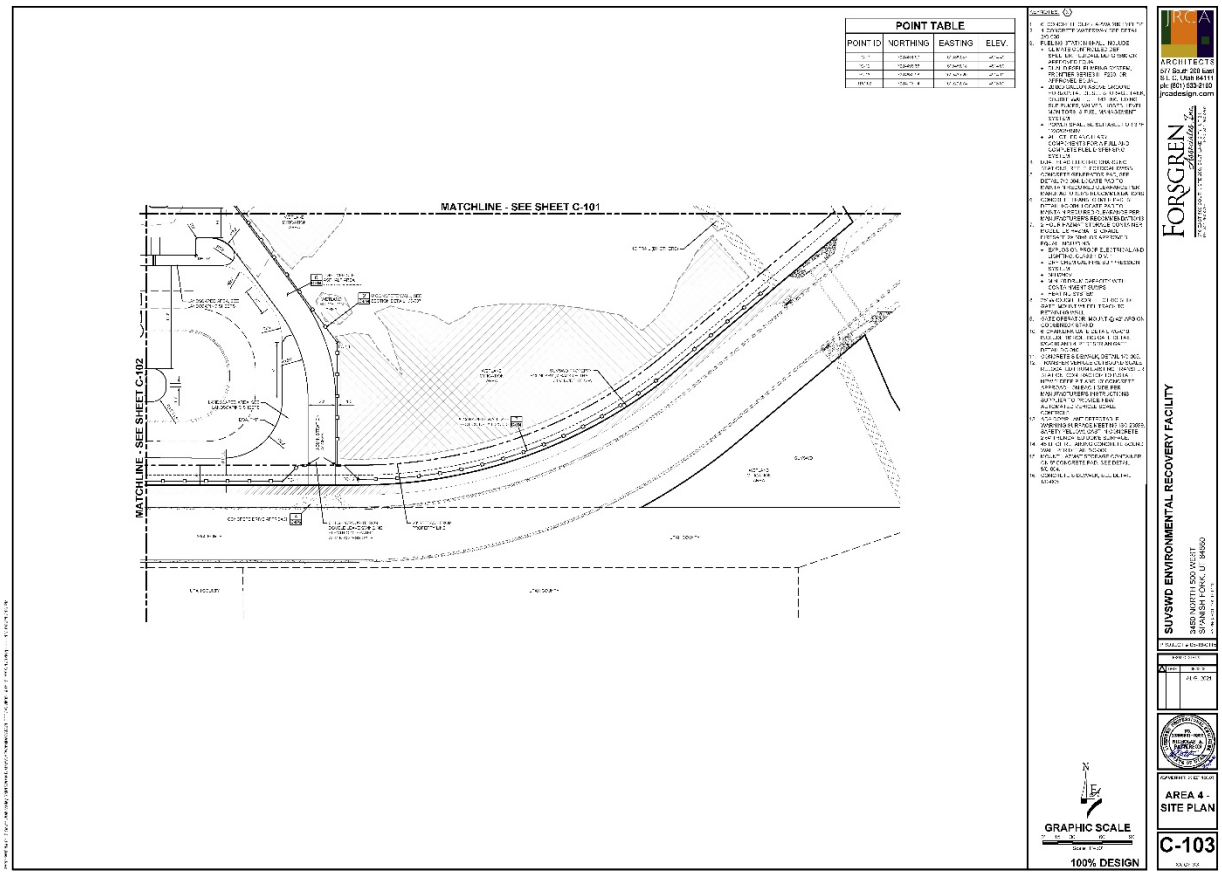

BERM AND WALL CROSS SECTION
WALL CROSS SECTION
RETAINING SOUND WALL CROSS SECTION
SOUTHWEST POND CROSS SECTION
SOUTHEAST POND CROSS SECTION
100% DESIGN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
CIVIL SECTIONS
C-007

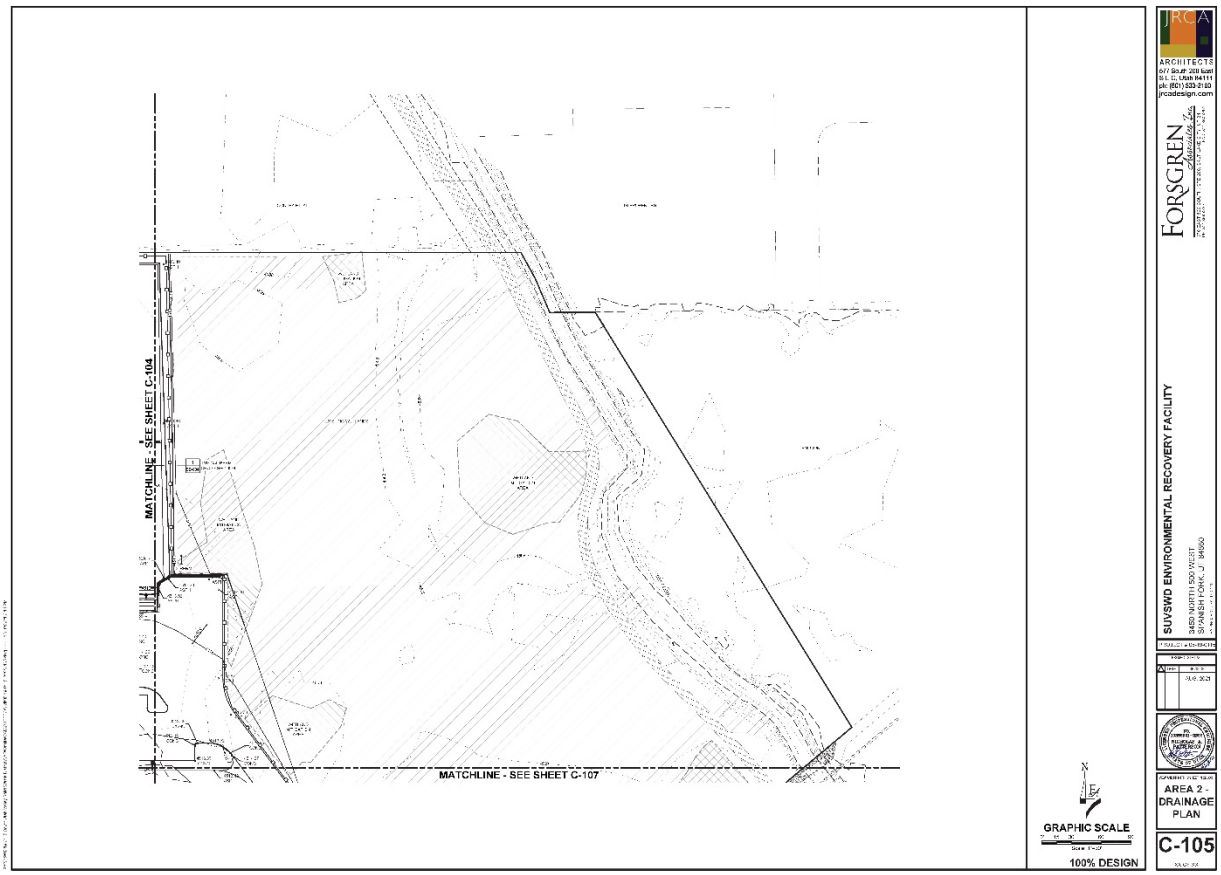

TRENCH DRAIN
POST – SIDE MOUNTED TO METAL
POST – SURFACE MOUNTED TO METAL
ELEVATION
PLAN
POST – SIDE MOUNTED TO CONCRETE
POST – SURFACE MOUNTED TO CONCRETE
TYPICAL PIPE TRENCH TYPE 1
HANDRAIL
EQUIPMENT MOUNTING BASE TYPE 1
DETAIL NOT USED
BOLLARD
BOLLARD
100% DESIGN
ARCHITECTS
FORSGREN Associates Inc
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3460 NORTH 600 WEST
SPANISH FORK, UT 84660
CIVIL DETAILS
C-008

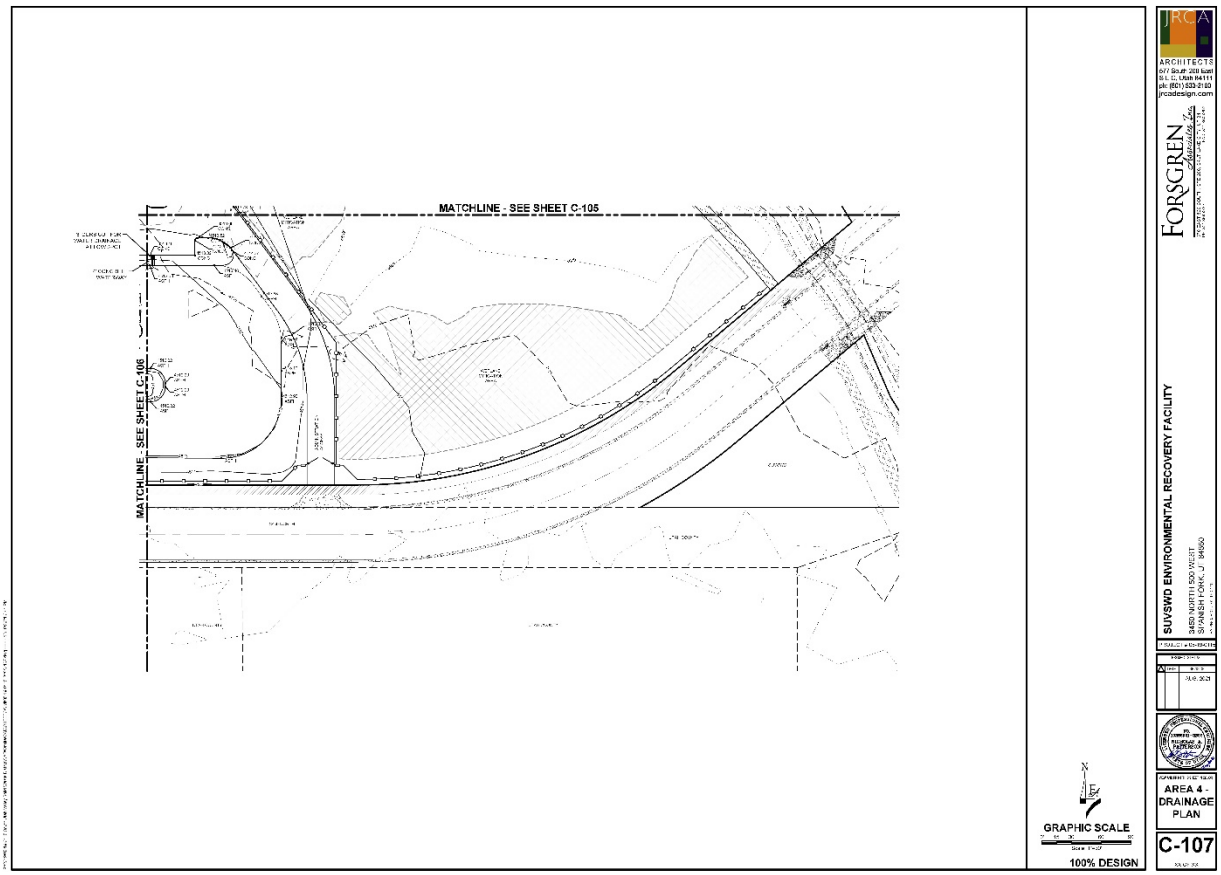

DETENTION - STORMBRIXX SD ONE LAYER WITH ACCESS PLATES
INSTALLATION DRAWING - ACO STORMBRIXX SD
ACO, Inc.
STORMBRIXX DETENTION DETAIL
SECTION PROFILE
STORM DRAIN PUMP STATION
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
CIVIL DETAILS
C-009
100% DESIGN

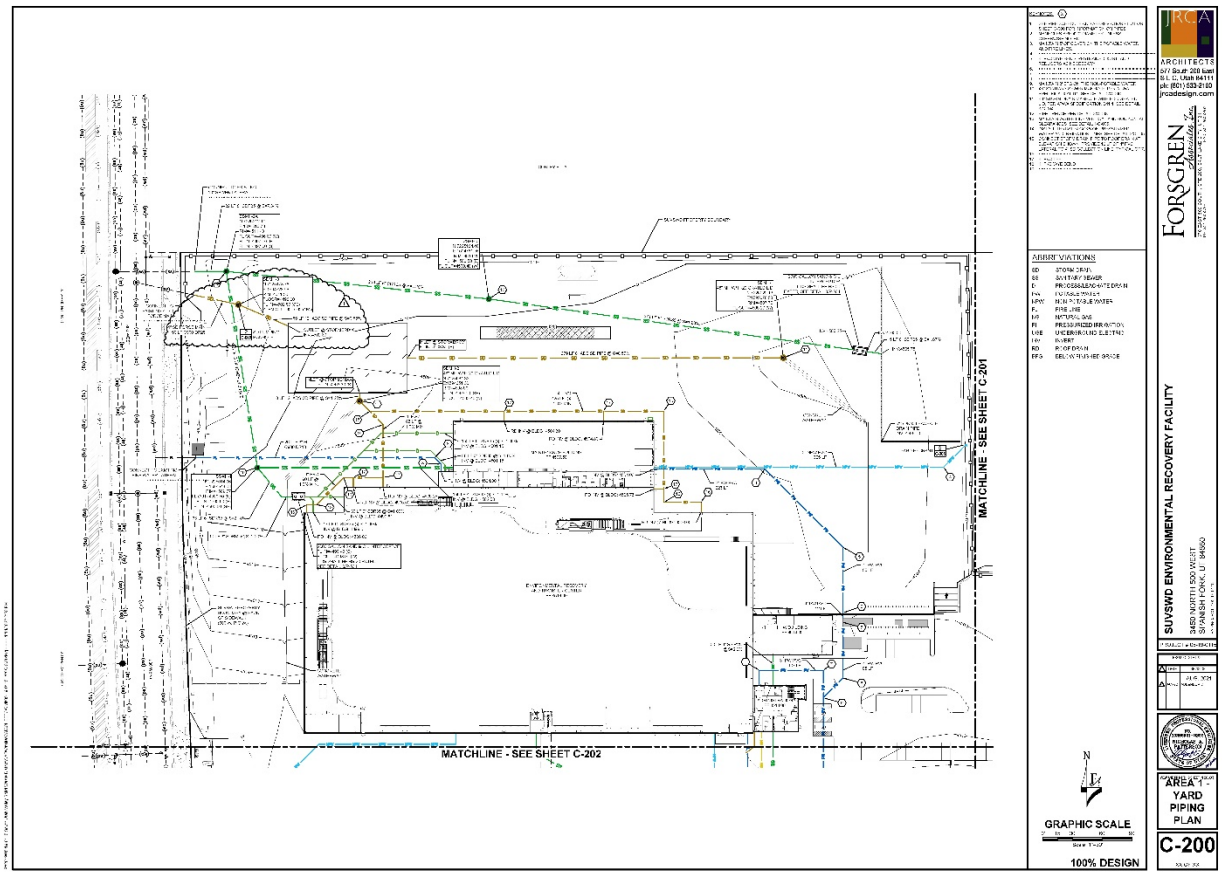

SLVSWD PROPERTY BOUNDARY
SLVSWD PROPERTY BOUNDARY
N
E
GRAPHIC SCALE
100% DESIGN
ARCHITECTS
577 South 200 East
S.L.C., Utah 84111
ph: (801) 533-2100
jrcadesign.com
FORSGREN Associates Inc
SLVSWD ENVIRONMENTAL RECOVERY FACILITY
3460 NORTH 500 WEST
SPANISH FORK, UT 84660
EROSION CONTROL
C-011

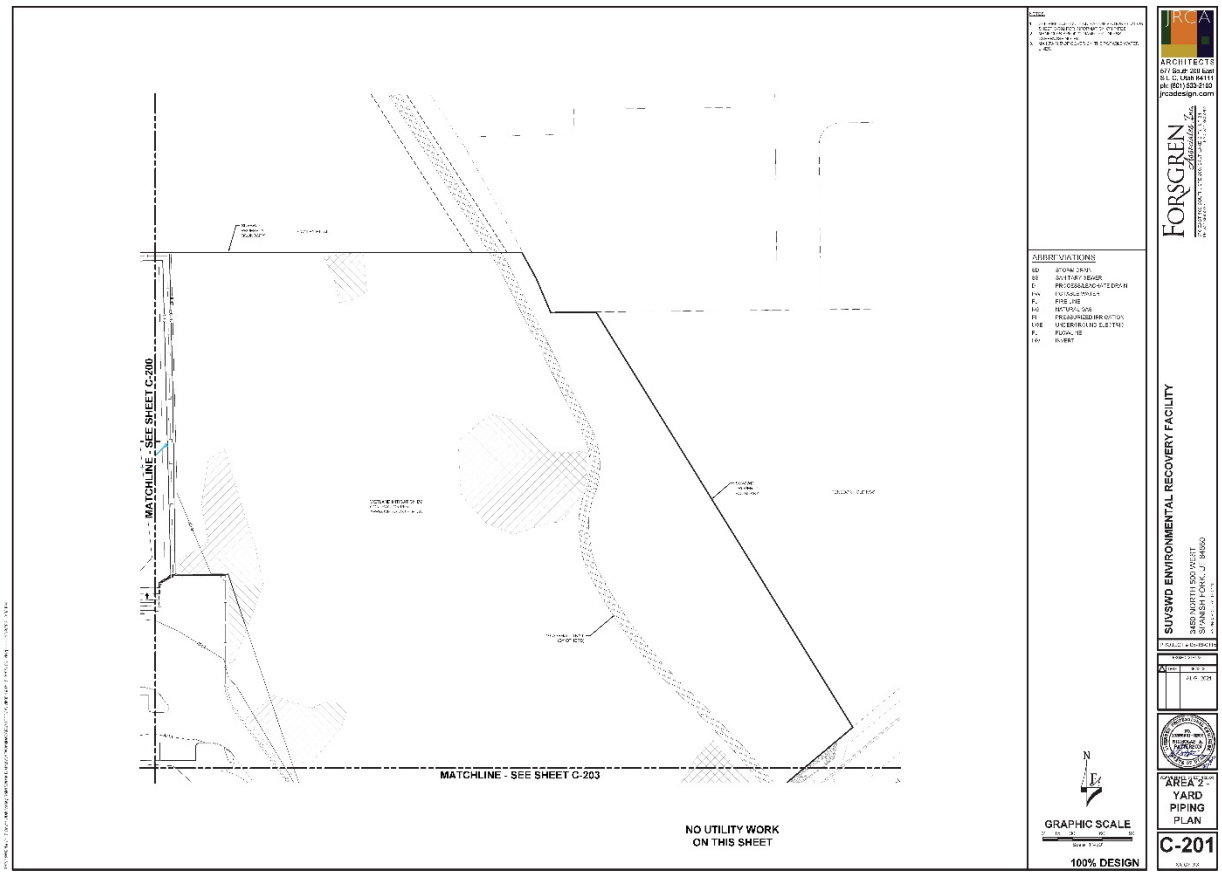

POINT TABLE
POINT ID
NORTHING
EASTING
ELEV.
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MATCHLINE - SEE SHEET C-103
GRAPHIC SCALE
100% DESIGN
JRCA ARCHITECTS
FORSGREN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
AREA 2 - SITE PLAN
C-101

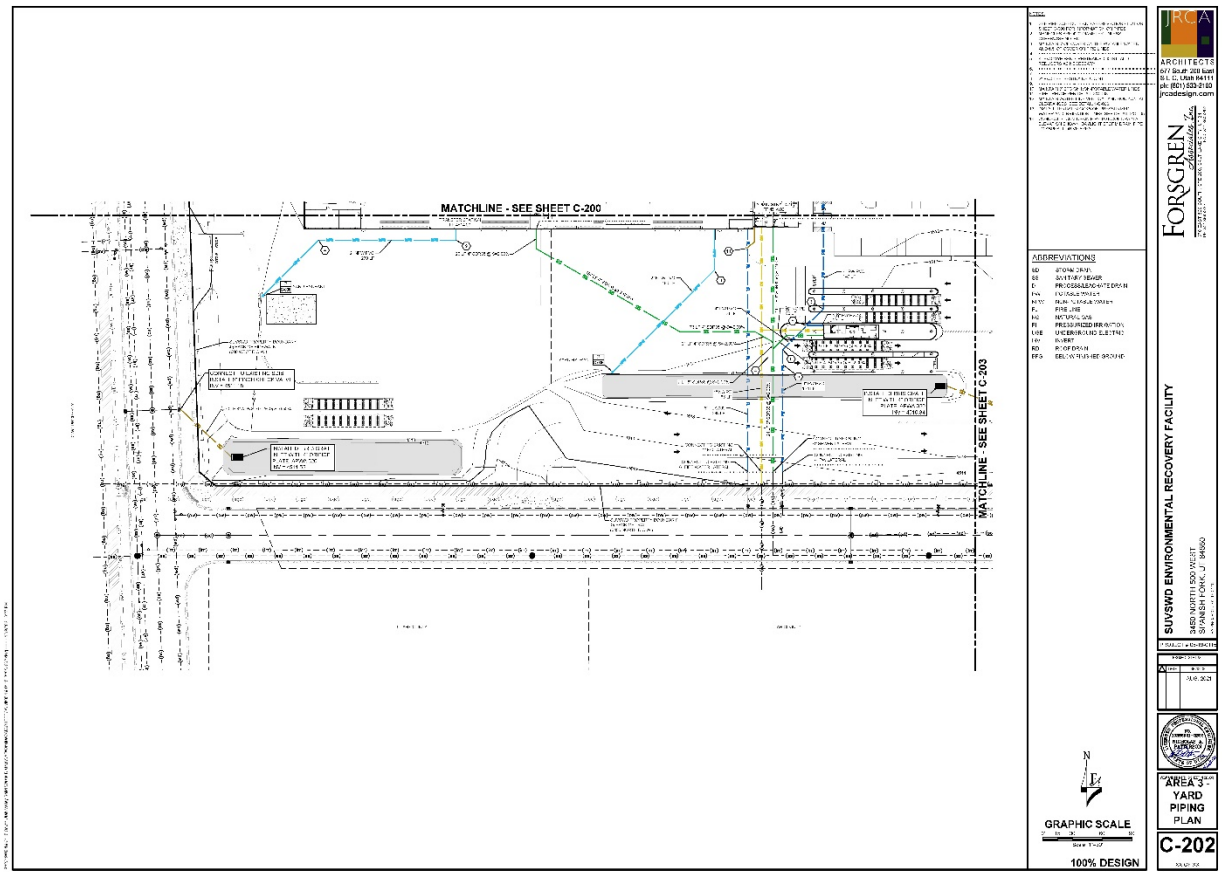

POINT TABLE
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EASTING
ELEV.
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MATCHLINE - SEE SHEET C-102
GRAPHIC SCALE
100% DESIGN
JRCA ARCHITECTS
FORSGREN ASSOCIATES
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
AREA 4 - SITE PLAN
C-103

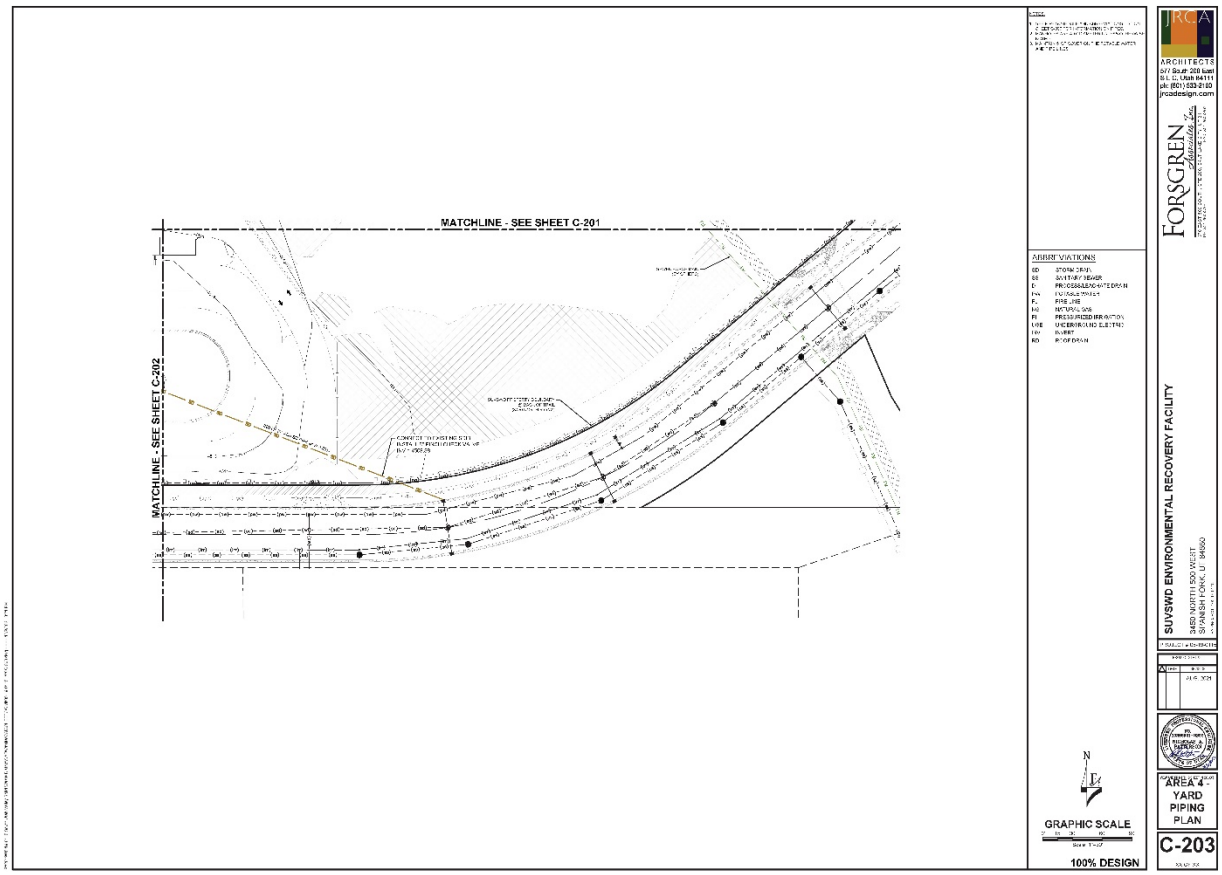

MATCHLINE - SEE SHEET C-104
MATCHLINE - SEE SHEET C-107
GRAPHIC SCALE
100% DESIGN
JRCA
ARCHITECTS
FORSGREN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
AREA 2 - DRAINAGE PLAN
C-105


MATCHLINE - SEE SHEET C-105
MATCHLINE - SEE SHEET C-105
GRAPHIC SCALE
100% DESIGN
JRCA ARCHITECTS
FORSGREN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
AREA 4 - DRAINAGE PLAN
C-107


MATCHLINE - SEE SHEET C-201
MATCHLINE - SEE SHEET C-202
ABBREVIATIONS
GRAPHIC SCALE
100% DESIGN
ARCHITECTS
FORSGREN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
AREA 1 -
YARD
PIPING
PLAN
C-200


MATCHLINE - SEE SHEET C-200
MATCHLINE - SEE SHEET C-203
NO UTILITY WORK
ON THIS SHEET
ABBREVIATIONS
GRAPHIC SCALE
100% DESIGN
ARCHITECTS
FORSGREN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
AREA 2 -
YARD
PIPING
PLAN
C-201


MATCHLINE - SEE SHEET C-200
MATCHLINE - SEE SHEET C-203
ABBREVIATIONS
GRAPHIC SCALE
100% DESIGN
JRCA ARCHITECTS
FORSGREN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
AREA 3 - YARD PIPING PLAN
C-202


MATCHLINE - SEE SHEET C-201
MATCHLINE - SEE SHEET C-202
ABBREVIATIONS
GRAPHIC SCALE
100% DESIGN
JRCA
ARCHITECTS
FORSGREN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
AREA 4
YARD PIPING PLAN
C-203

FORSGREN Associates Inc.

PREPARED FOR:	Spanish Fork City
PREPARED BY:	Nick Patterson, PE
DATE:	March 2, 2022
SUBJECT:	SUVSWD ERF – Site Plan Comment Resolution



Spanish Fork Engineering Comments

- Call out thrust blocks and other items as following City standards, not APWA. They are similar in most situations, but with some modifications.
  - Adjustments to plans are made to reflect this requirement. See drawing C-002 & C-005, attached.
- Can you explain what the non-potable line is? How does it go from potable to non-potable? Is it reused water? Give Paul Taylor a call with the Water Division 801-804-4458.
  - These are potable lines as they enter the administration building and then split off with their own backflow preventer at the main water entry. This pipe serves hose bibs and yard hydrants that do not have their own backflow protection so the piping between them and the backflow preventer is non-potable. The backflow preventer is there to protect the potable water source. See detail 2/C-006 and detail 4/P-504 for clarity.
- Follow City Standards for oil/sand separator. Contact Sewer Division with questions.
  - Plans are updated to reflect this comment. See updated sheet P-504, attached. Additionally, a sampling manhole has been included downstream of each oil/sand separator per SFC requirements, see updated sheet C-200.
- Follow storm drain standard drawing (SD-411) with waterman gate for your storm drain basins that have an above-ground component.
  - Drainage basin outflows are updated to include a waterman gate, see sheet C-202.
- Follow W-215 in our Construction Standards for the 4" water meter.
  - See updated offsite plan sheet U-015, attached.
- Give me a call to discuss the pumping manhole for storm drain. We will likely want an overflow pipe in that manhole so if it backs up high enough then a gravity line can convey the water.
  - 12" gravity overflow pipe is added to the pumping manhole. See updated drawing C-009, attached.
- Long term stormwater management plan will be required. Contact James Darling 801-804-4570 with questions.
  - A long-term stormwater management plan will be submitted with corrected plans. We will use the template provided by Spanish Fork City.
- Provide redline response memo detailing how each redline was met.
  - Noted
- Sewer cleanouts required every 75 feet and at bends.
  - Cleanouts are added to all sewer/drainpipe bends and straight runs over 75 feet in length to meet this requirement, see updates sheet C-200 and C-202.

- Sewer Division is concerned about H2S. Apparently Springville has had issues with it at the current transfer station. Advanced Lining does a polyurea lining that has worked well for us.
  - I have spoken with Cory Pierce about this comment. He has recommended that SUVSWD consider lining the sewer manholes onsite but does not believe he can require them to include this in their construction. Sewer infrastructure on the transfer station site is the responsible of SUVSWD for maintaining a functioning system. If future sewer sampling from the transfer station presents the need for a pretreatment program than that will be addressed at a later date.

- Show City valve for fire line on the main tee, not behind curb. Show PIV location as well.
  - See updated offsite plan sheets U-011 and U-014, attached.
  - No PIV is included in this design. Fire consultant has followed NFPA24 guidelines and included control valves in a fire-rated room accessible from the exterior of each riser room in lieu of a PIV.

6.1.1.3.1 For new installations, where more than one non-indicating underground gate valve is installed in a water system, all underground gate valves shall be of the same opening direction.

6.1.1.4* A nonlisted, nonindicating valve, including a T-wrench as part of a tapping assembly, shall be permitted.

located a safe distance outside buildings.

6.2.8* All control valves shall be located where accessible and free of obstructions.

6.2.9 All connections to private fire service mains for fire protection systems shall be arranged in accordance with one of the following so that they can be isolated:

2016 Edition

(1)*A post indicator valve installed not less than 40 ft (12 m) from the building
   (a) For buildings less than 40 ft (12 m) in height, a post indicator valve shall be permitted to be installed closer than 40 ft (12 m) but at least as far from the building as the height of the wall facing the post indicator valve.
(2) A wall post indicator valve
(3) An indicating valve in a pit, installed in accordance with Section 6.4
(4)*A backflow preventer with at least one indicating valve not less than 40 ft (12 m) from the building
   (a) For buildings less than 40 ft (12 m) in height, a backflow preventer with at least one indicating valve shall be permitted to be installed closer than 40 ft (12 m) but at least as far from the building as the height of the wall facing the backflow preventer.
(5)*A nonindicating valve, such as an underground gate valve with an approved roadway box, complete with T-wrench, located not less than 40 ft (12 m) from the building
   (a) For buildings less than 40 ft (12 m) in height, a non-indicating valve, such as an underground gate valve with an approved roadway box, complete with T-wrench, shall be permitted to be installed closer than 40 ft (12 m) but at least as far from the building as the height of the wall facing the non-indicating valve.
(6) Control valves installed in a fire-rated room accessible from the exterior
(7) Control valves in a fire-rated stair enclosure accessible from the exterior as permitted by the AHJ

6.3 Post Indicator Valves.

6.3.1 Where post indicator valves are used, they shall be set so that the top of each post is 32 in. to 40 in. (800 mm to 1.0 m) above the final grade.

6.3.2 Where post indicator valves are used, they shall be protected against mechanical damage where needed.

6.4.4 The location of the valve shall be marked, and the cover of the pit shall be kept free of obstructions.

6.5 Backflow Prevention Assemblies.

6.5.1 Where used in accordance with 6.2.9(4), backflow prevention assemblies shall be installed in accordance with their installation instructions.

6.5.2 Backflow prevention assemblies shall be protected against mechanical damage and freezing where the potential exists.

6.6 Sectional Valves.

6.6.1* Sectional valves shall be provided at appropriate locations within piping sections such that the number of fire protection connections between sectional valves does not exceed six.

6.6.2 A sectional valve shall be provided at the following locations:

(1) On each bank of a river, pond, or lake where a main crosses water
(2) Outside the building foundation(s) where a main or a section of a main is installed under a building

6.7 Identifying and Securing Valves.

6.7.1 Identification signs shall be provided at each valve to indicate the valve's function and the part of the system the valve controls.

6.7.1.1 Identification signs in 6.7.1 shall not be required for underground gate valves with roadway boxes.

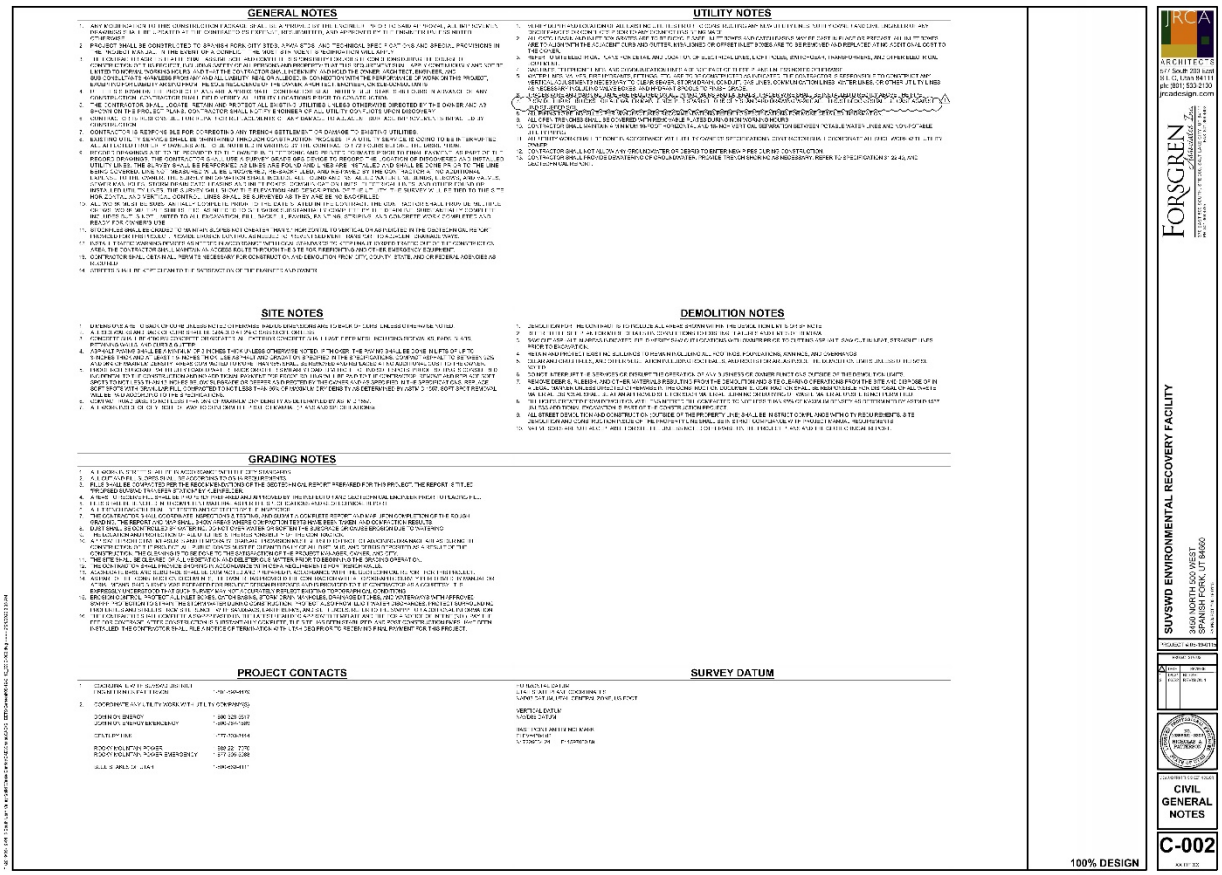
6.7.2* Control valves shall be supervised by one of the following methods:

(1) Central station, proprietary, or remote station signaling service
(2) Local signaling service that causes the sounding of an audible signal at a constantly attended location
(3) An approved procedure to ensure that valves are locked in the correct position

- Show PI meter. There will need to be some separation because of how big the water vault for the 4" will be.
    - PI meter is called out on the updated offsite improvements sheets and the lateral has been moved to the east 10' for separation from the 4" water main. See updated sheet U-015, attached.

- We are worried about the StormBrixx filling with water given the high-water table. What solutions are you proposing?
    - The geotechnical report shows the water table in the area at 9' where the StormBrixx units will be constructed. We recognize that seasonally the water table may be higher, especially during wet years. In times when the water table is high, we have the ability to pump the water out of the storage area. Additionally, a gravity overflow pipe has been added to the system in case of the StormBrixx being full and the pump unable to keep up with stormwater. See updated drawing C-009, attached.

- Why is a check valve needed for the storm drain basin? It seems like it all flows out to the storm drainpipe.
    - Pinch valves are removed from the construction plans, see updated sheet C-202.



GENERAL NOTES

UTILITY NOTES

SITE NOTES

DEMOLITION NOTES

GRADING NOTES

PROJECT CONTACTS

SURVEY DATUM

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
SLC, UT, 84111
ph: (801) 533-2130
jrcadesign.com

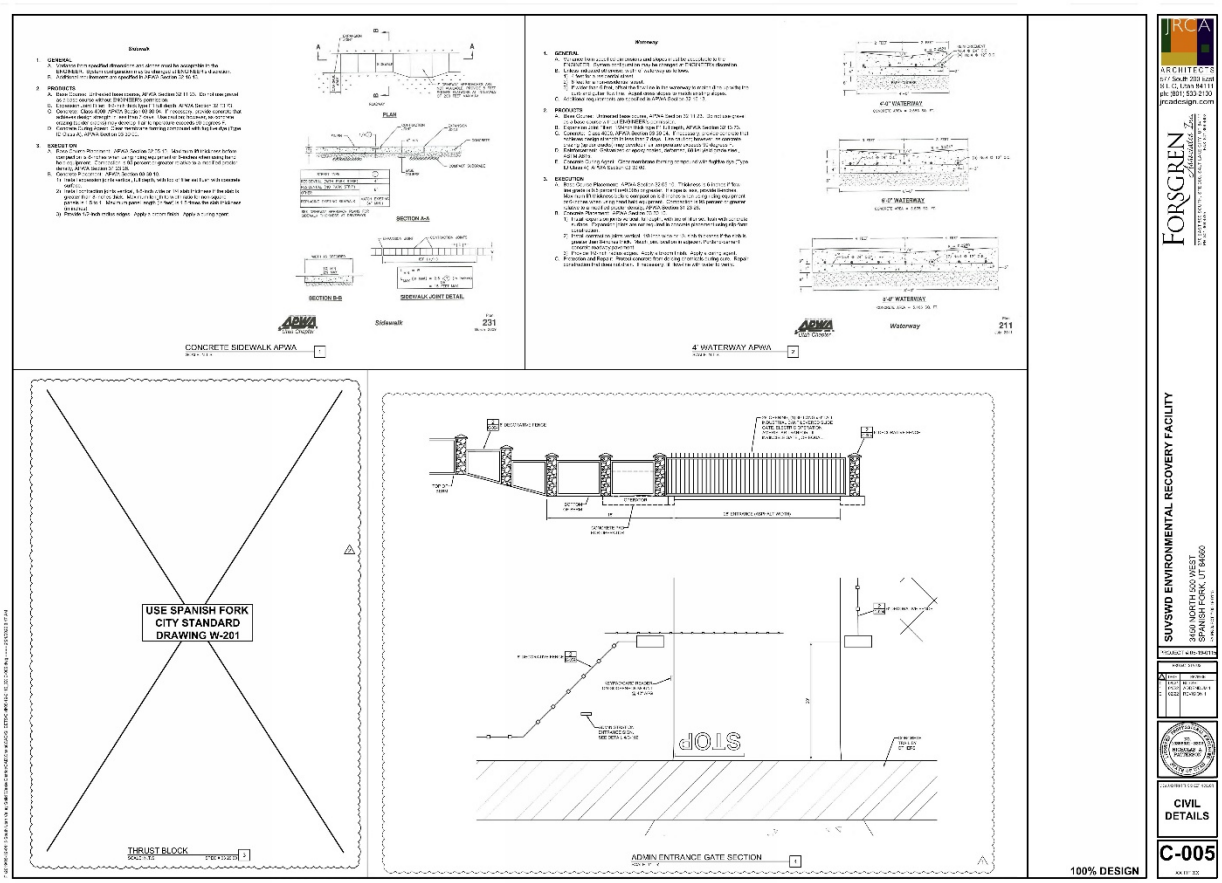
FORSGREN Associates

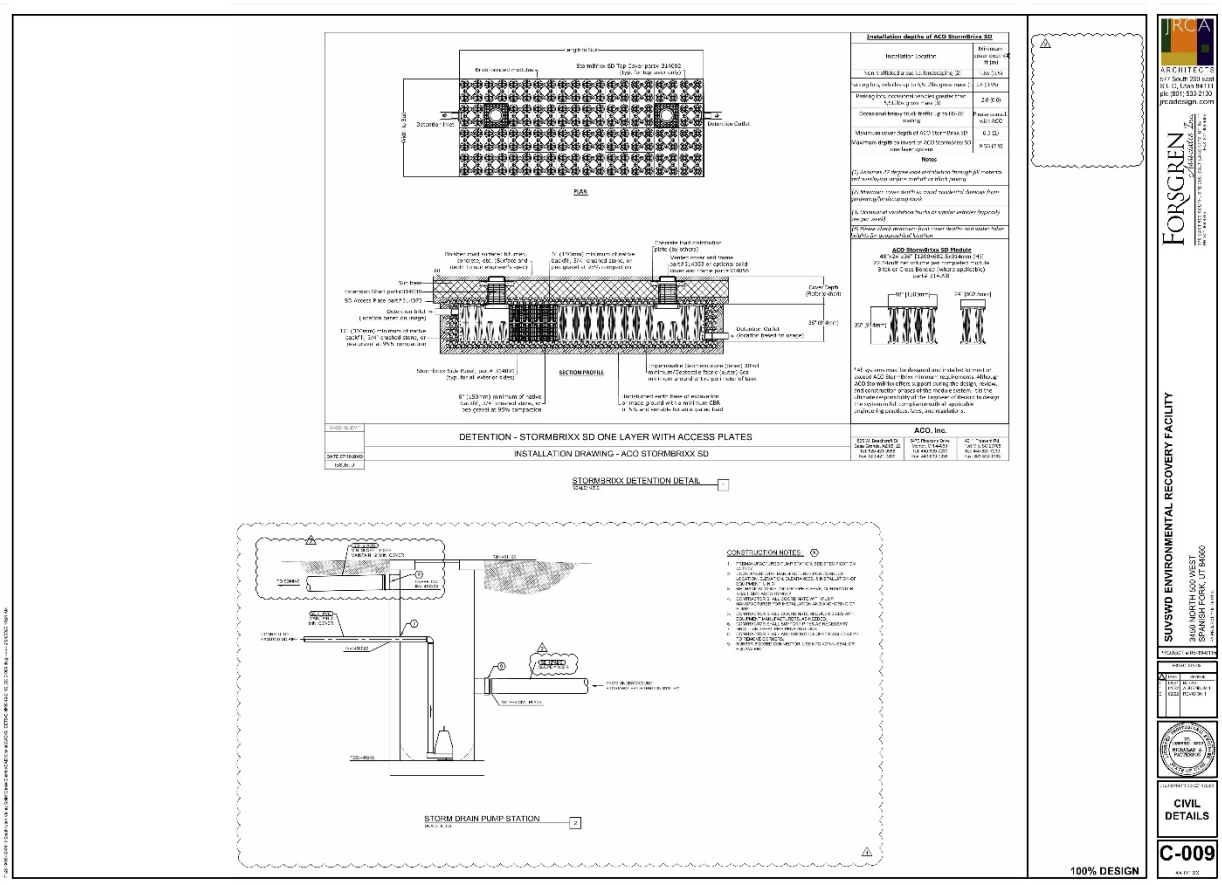
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3460 NORTH 600 WEST
SPANISH FORK, UT 84660

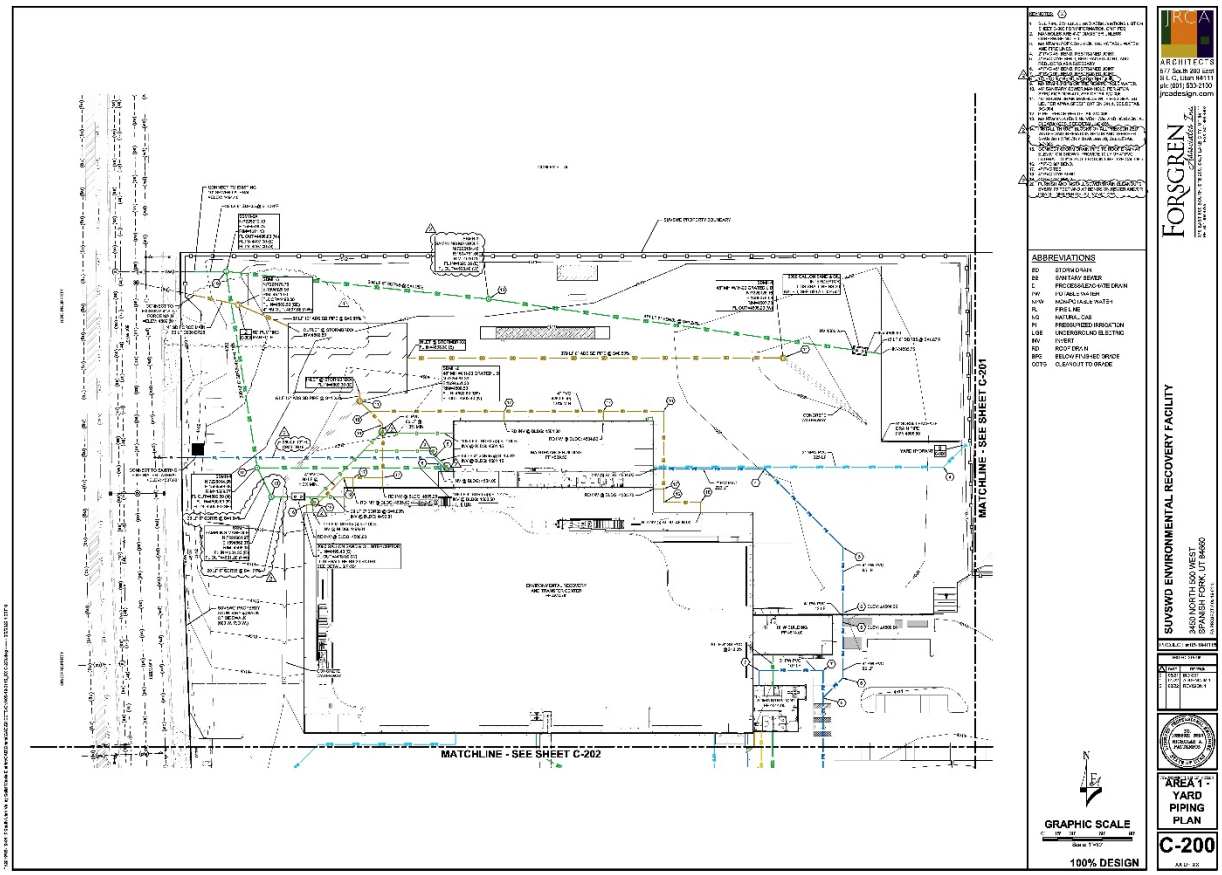
CIVIL GENERAL NOTES

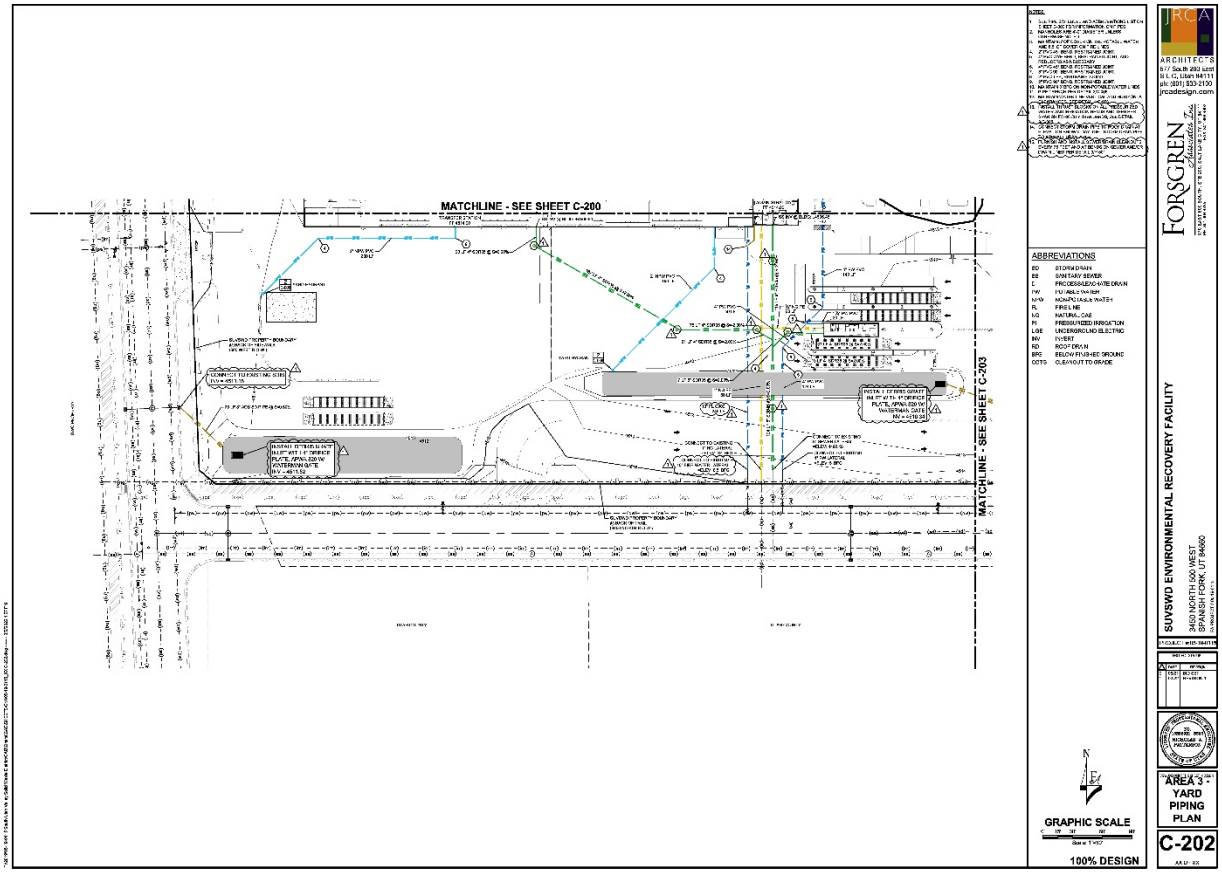
C-002

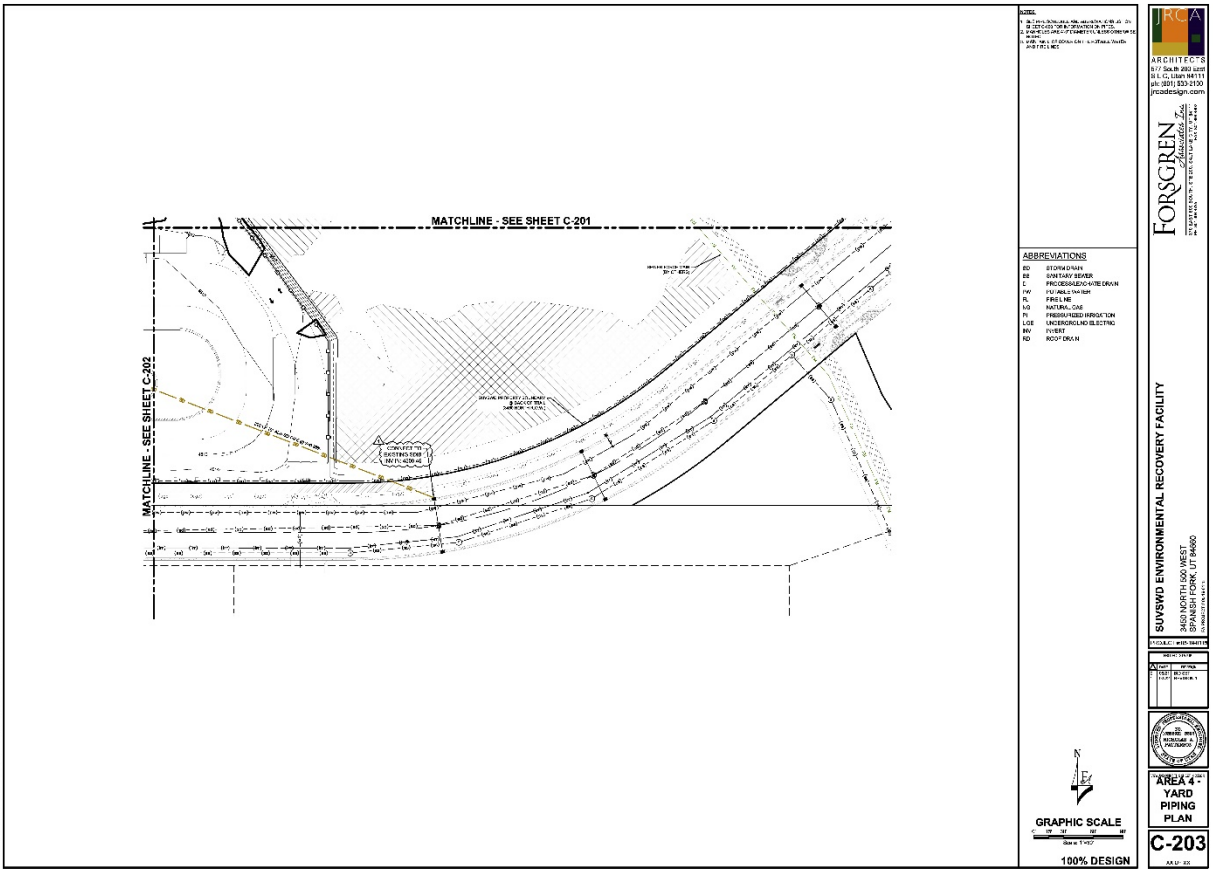
March 9, 2022

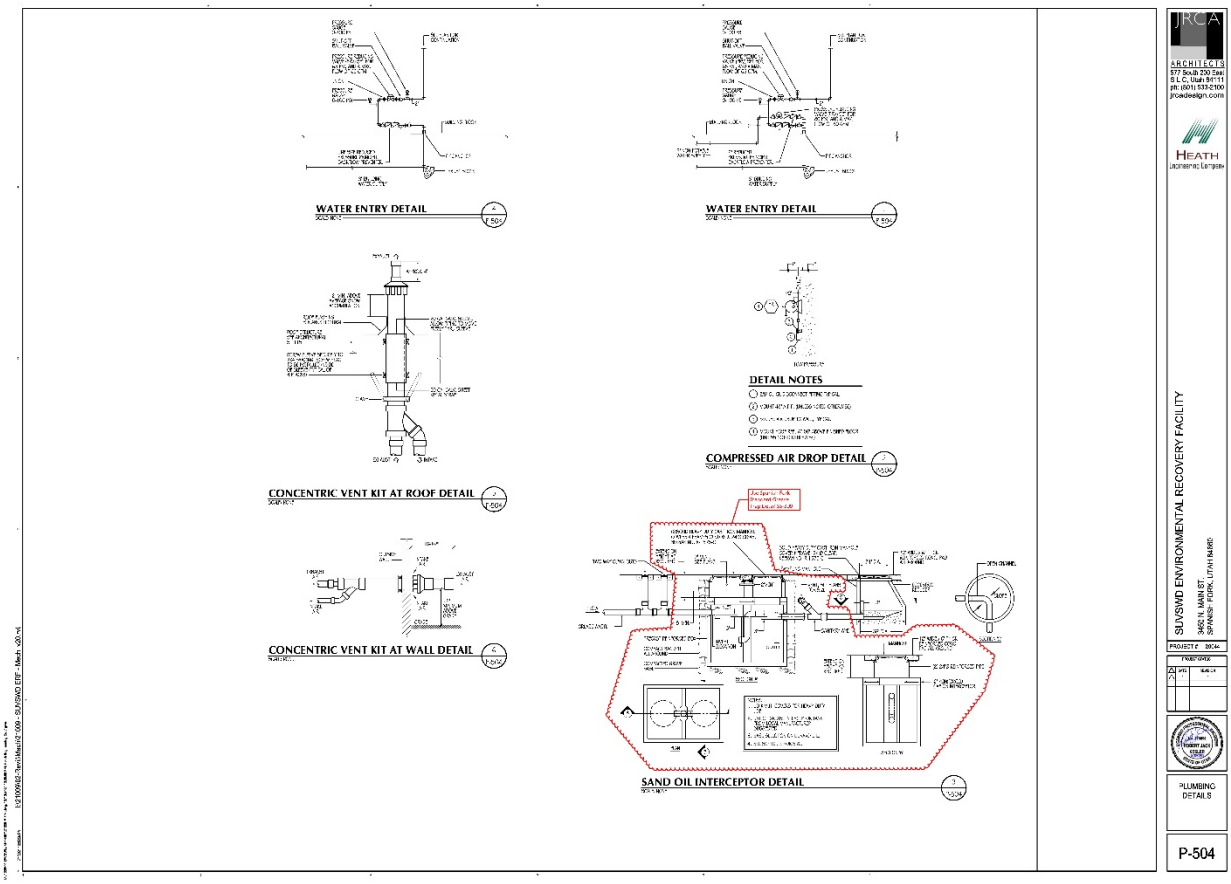

CONCRETE SIDEWALK APWA
4' WATERWAY APWA
USE SPANISH FORK CITY STANDARD DRAWING W-201
THRUST BLOCK
ADMIN ENTRANCE GATE SECTION
STOP
100% DESIGN
JRCA ARCHITECTS
FORSGREN ASSOCIATES
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3450 NORTH 600 WEST
SPANISH FORK, UT 84660
CIVIL DETAILS
C-005

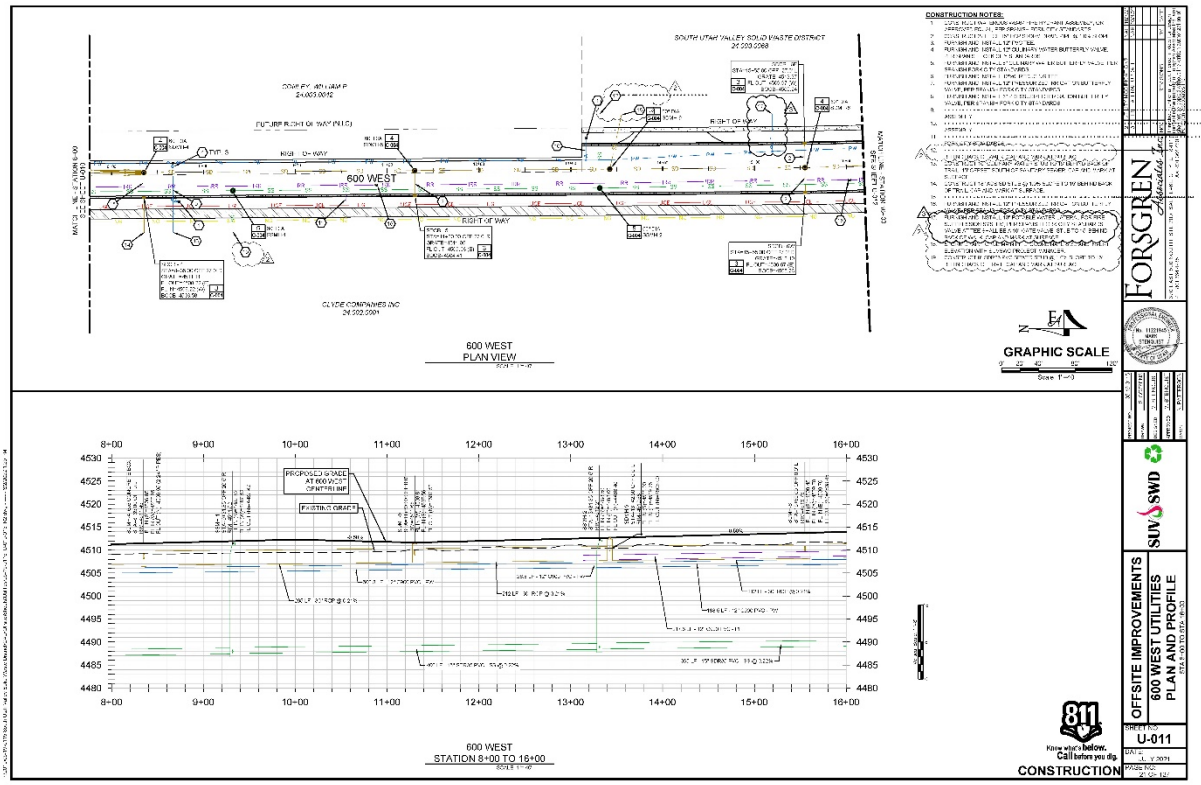

DETENTION - STORMBRIXX SD ONE LAYER WITH ACCESS PLATES
INSTALLATION DRAWING - ACO STORMBRIXX SD
ACO, Inc.
STORMBRIXX DETENTION DETAIL
STORM DRAIN PUMP STATION
CONSTRUCTION NOTES
100% DESIGN
FORSGREN ASSOCIATES
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3460 NORTH 600 WEST
SPANISH FORK, UT 84660
CIVIL DETAILS
C-009

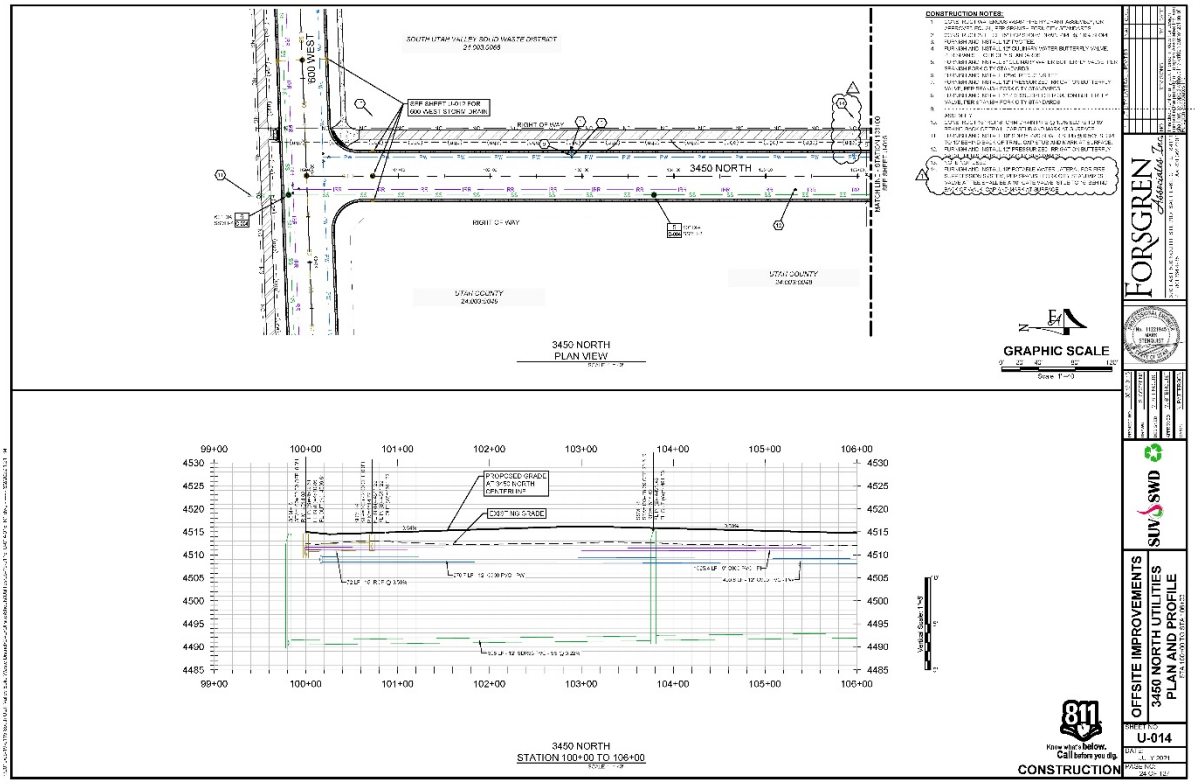

MATCHLINE - SEE SHEET C-201
MATCHLINE - SEE SHEET C-202
ABBREVIATIONS
GRAPHIC SCALE
100% DESIGN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
AREA 1 - YARD PIPING PLAN
C-200

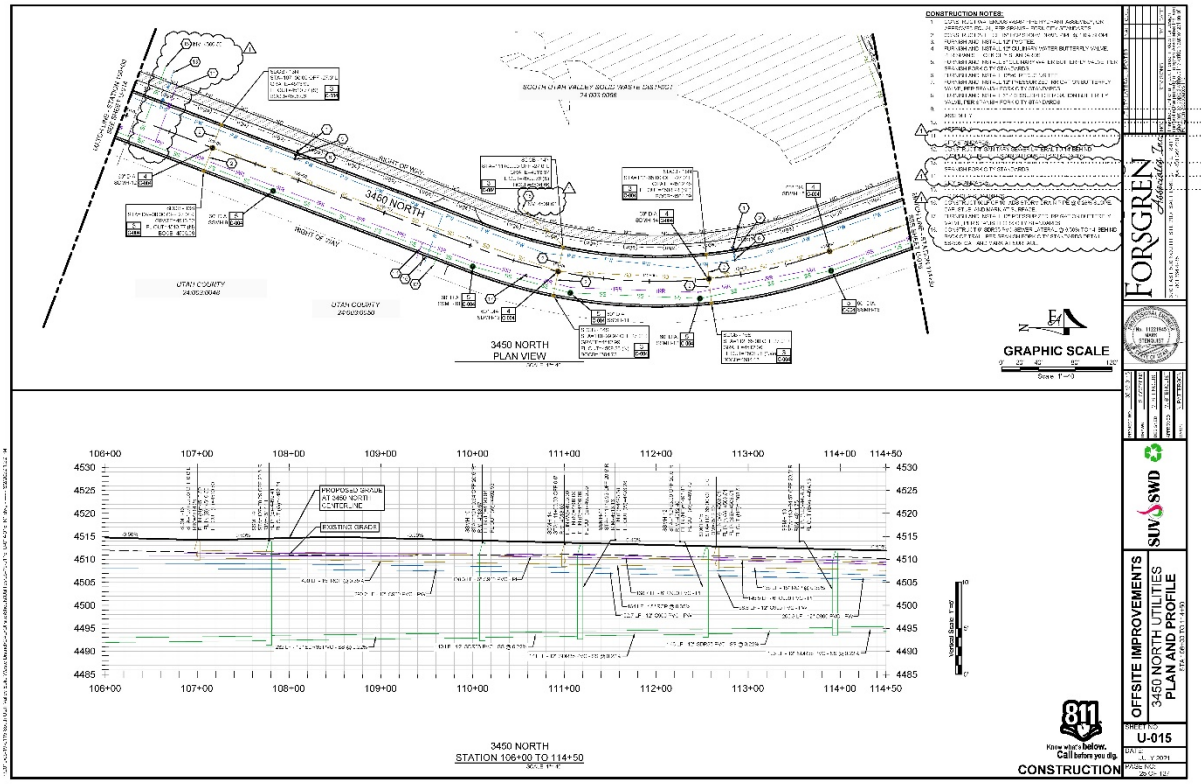

MATCHLINE - SEE SHEET C-200
MATCHLINE - SEE SHEET C-203
ABBREVIATIONS
SD STORM DRAIN
SS SANITARY SEWER
C PROCESS/LEACHATE DRAIN
PW POTABLE WATER
MW MONITORING WATER
FL FIRE LINE
NG NATURAL GAS
PI PRESSURIZED IRRIGATION
UGE UNDERGROUND ELECTRIC
INV INVERT
RD ROOF DRAIN
BFG BELOW FINISHED GROUND
COTG CLEANOUT TO GRADE
GRAPHIC SCALE
100% DESIGN
JRCA ARCHITECTS
FORSGREN Associates Inc.
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3450 NORTH 600 WEST
SPANISH FORK, UT 84660
AREA 3 - YARD PIPING PLAN
C-202

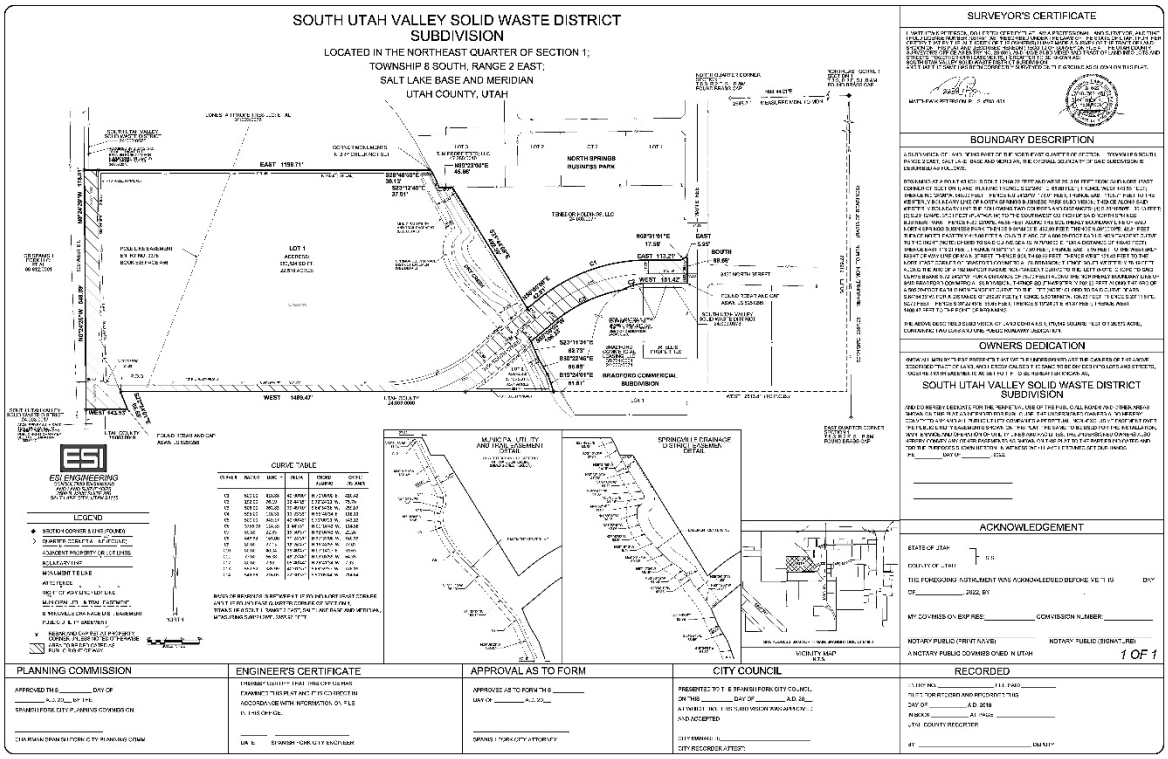

MATCHLINE - SEE SHEET C-201
MATCHLINE - SEE SHEET C-202
ABBREVIATIONS
SD STORM DRAIN
SS SANITARY SEWER
C PROCESS/LEACHATE DRAIN
FW FUSIBLE WATER
FL FIRE LINE
NG NATURAL GAS
PI PRESSURIZED IRRIGATION
UGE UNDERGROUND ELECTRIC
INV INVERT
RD ROOF DRAIN
GRAPHIC SCALE
100% DESIGN
JRCA ARCHITECTS
577 South 200 East
S.L.C., Utah 84111
ph: (801) 533-2130
jrcadesign.com
FORSGREN Associates Inc.
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3450 NORTH 600 WEST
SPANISH FORK, UT 84660
AREA 4 - YARD PIPING PLAN
C-203

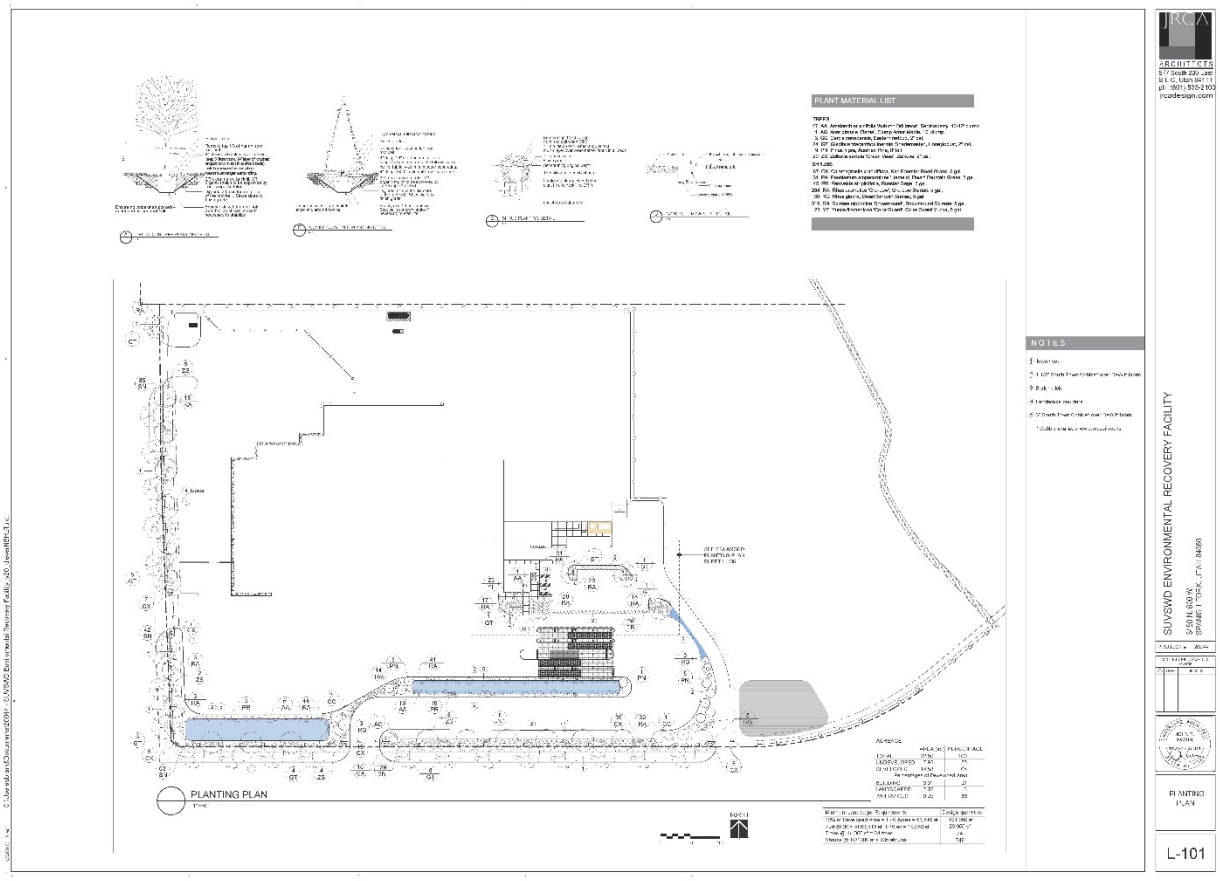

WATER ENTRY DETAIL
WATER ENTRY DETAIL
CONCENTRIC VENT KIT AT ROOF DETAIL
DETAIL NOTES
COMPRESSED AIR DROP DETAIL
CONCENTRIC VENT KIT AT WALL DETAIL
SAND OIL INTERCEPTOR DETAIL
JRCA ARCHITECTS
HEATH
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
PLUMBING DETAILS
P-504

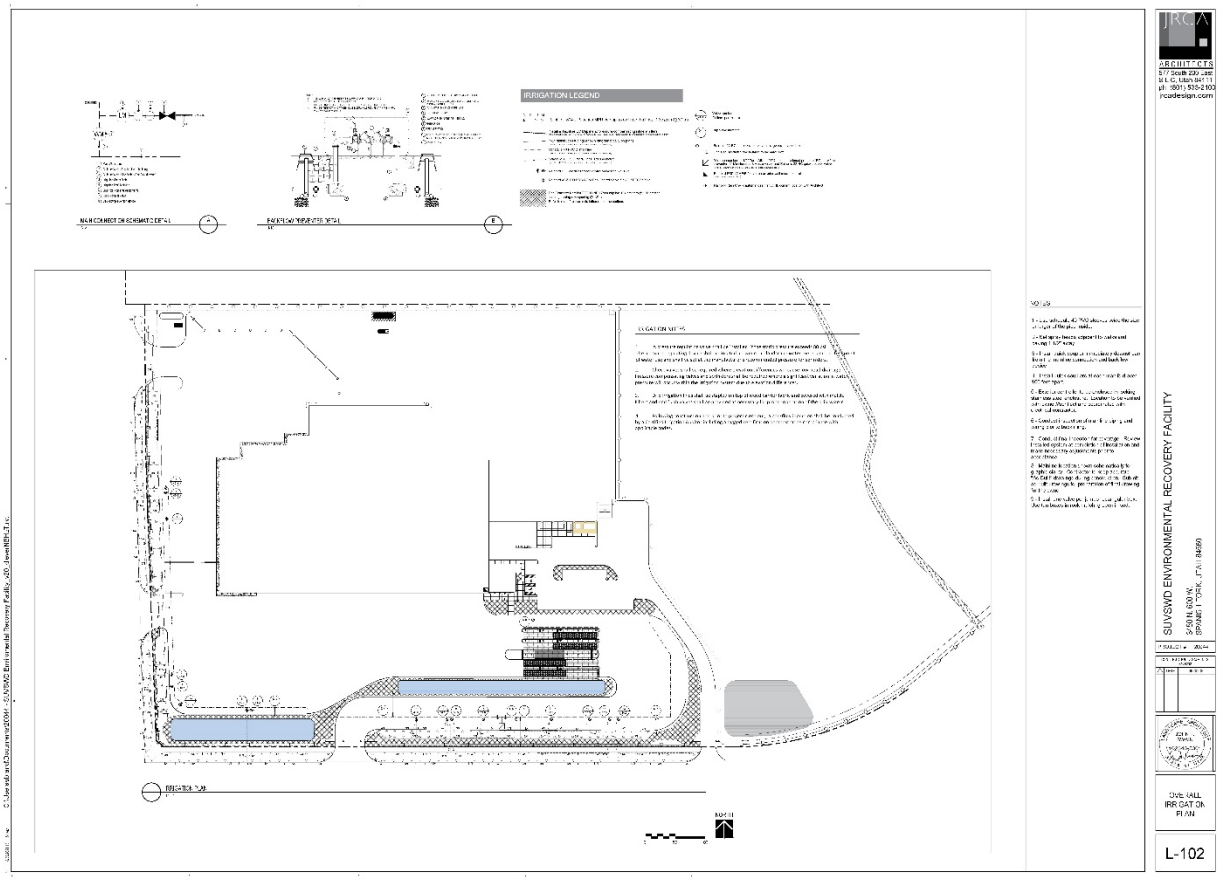

600 WEST
PLAN VIEW
GRAPHIC SCALE
600 WEST
STATION 8+00 TO 16+00
CONSTRUCTION
FORSGREN
OFFSITE IMPROVEMENTS
600 WEST UTILITIES
PLAN AND PROFILE
U-011

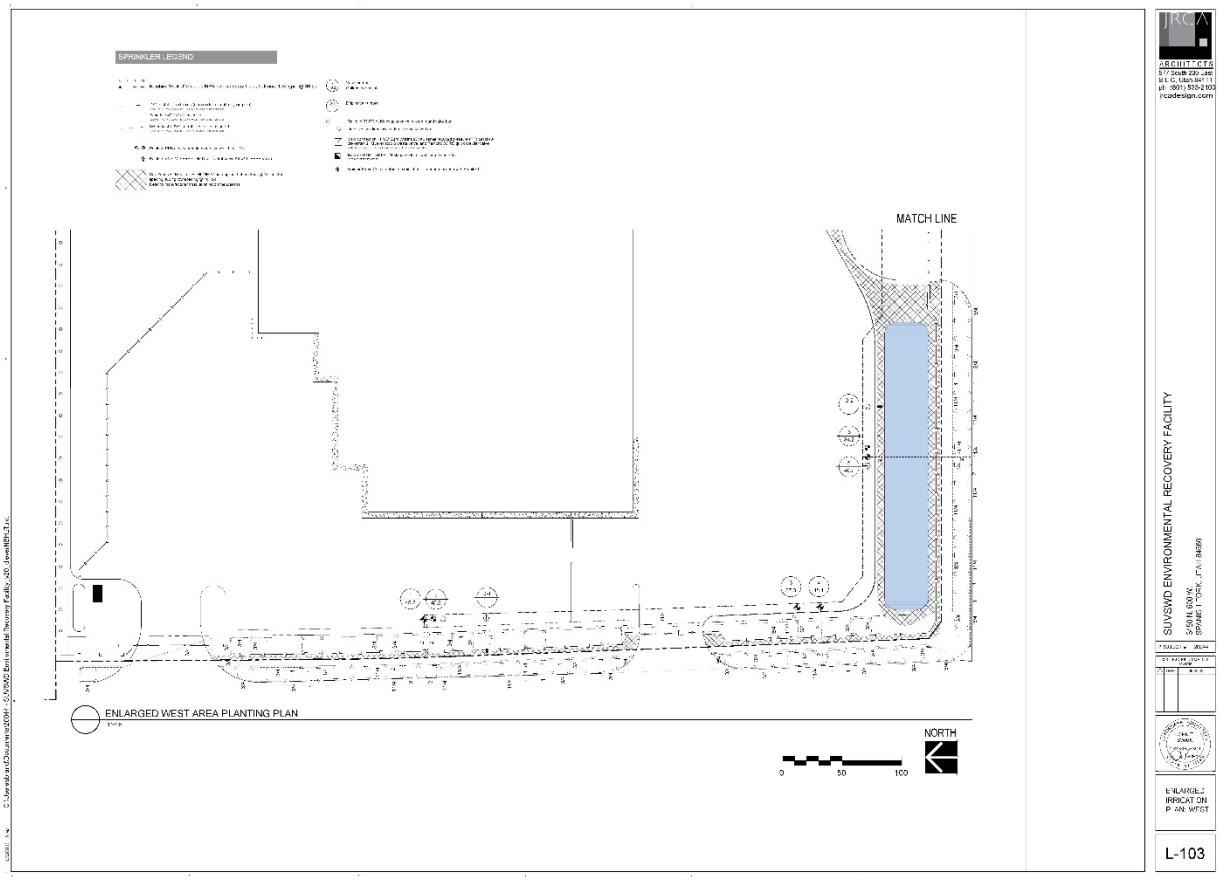

CONSTRUCTION NOTES:
600 WEST
3450 NORTH
RIGHT OF WAY
UTAH COUNTY
3450 NORTH
PLAN VIEW
GRAPHIC SCALE
99+00 100+00 101+00 102+00 103+00 104+00 105+00 106+00
4530 4525 4520 4515 4510 4505 4500 4495 4490 4485
PROPOSED GRADE AT 3450 NORTH CENTERLINE
EXISTING GRADE
3450 NORTH
STATION 100+00 TO 106+00
Know what's below. Call before you dig.
CONSTRUCTION
FORSGREN Associates Inc.
SUVSWD
OFFSITE IMPROVEMENTS
3450 NORTH UTILITIES
PLAN AND PROFILE
SHEET NO
U-014
DATE
PAGE NO

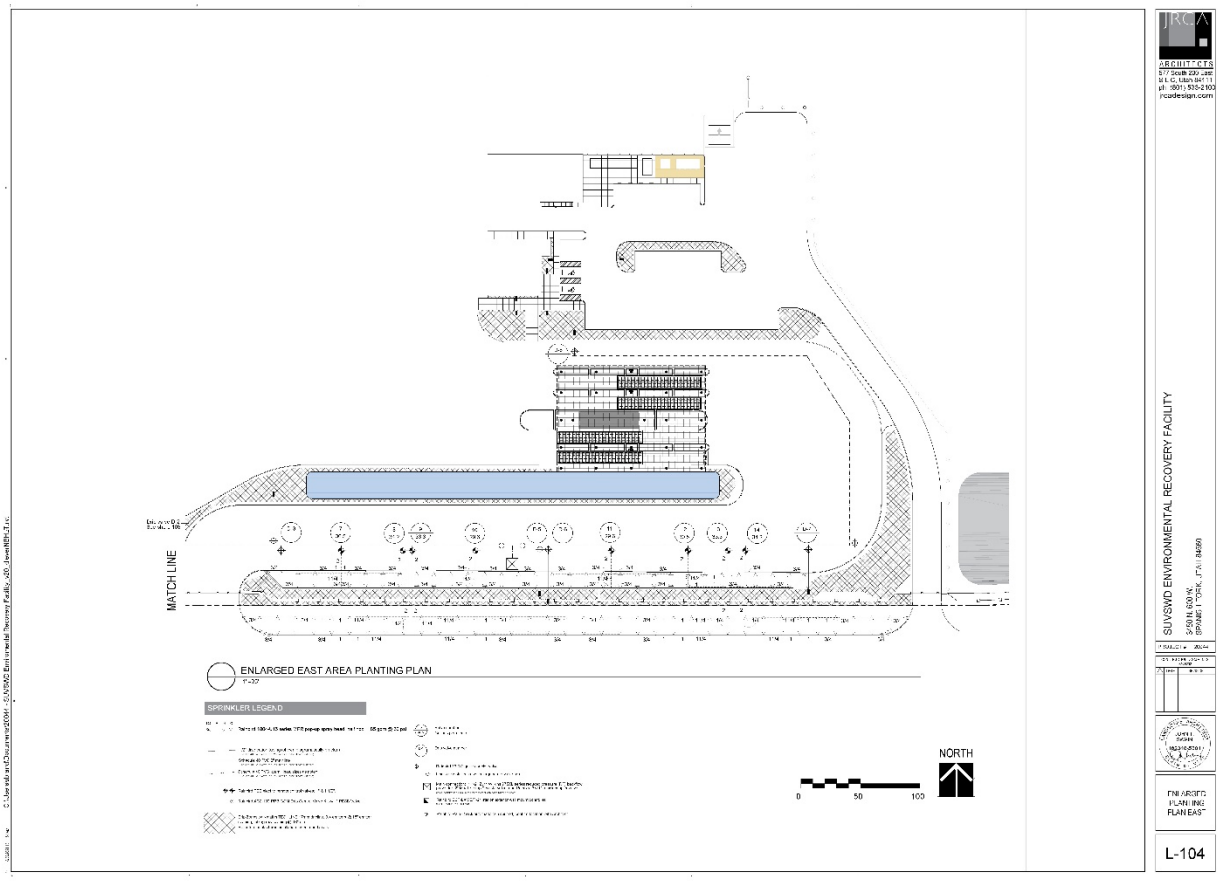

CONSTRUCTION NOTES:
3450 NORTH
RIGHT OF WAY
UTAH COUNTY
3450 NORTH
PLAN VIEW
GRAPHIC SCALE
106+00 107+00 108+00 109+00 110+00 111+00 112+00 113+00 114+00 114+50
4530 4525 4520 4515 4510 4505 4500 4495 4490 4485
PROPOSED GROUND AT 3450 NORTH CENTERLINE
EXISTING GRADE
3450 NORTH
STATION 106+00 TO 114+50
Know what's below. Call before you dig.
CONSTRUCTION
FORSGREN Associates Inc.
SUVSWD
OFFSITE IMPROVEMENTS
3450 NORTH UTILITIES
PLAN AND PROFILE
SHEET NO
U-015
DATE
PAGE NO

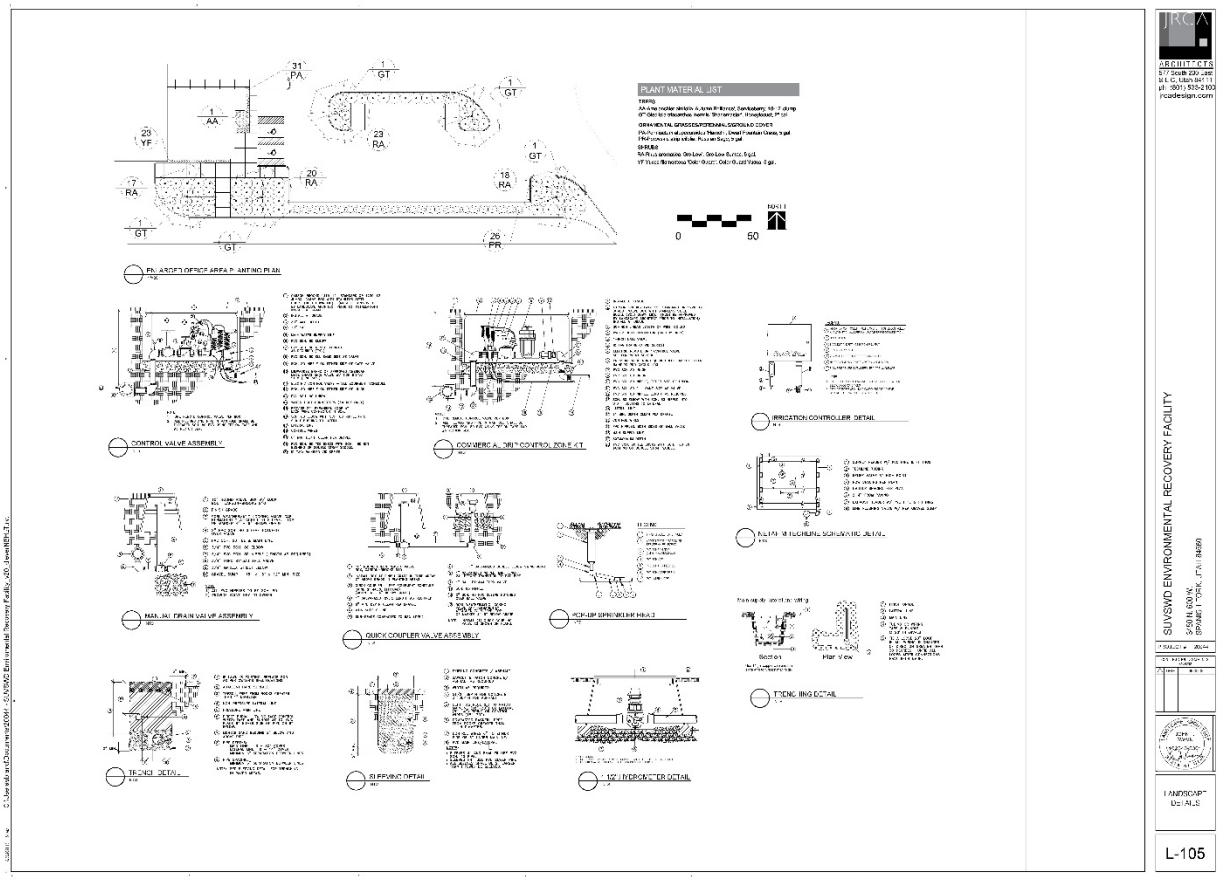

SOUTH UTAH VALLEY SOLID WASTE DISTRICT
SUBDIVISION
LOCATED IN THE NORTHEAST QUARTER OF SECTION 1;
TOWNSHIP 8 SOUTH, RANGE 2 EAST;
SALT LAKE BASE AND MERIDIAN
UTAH COUNTY, UTAH
SURVEYOR'S CERTIFICATE
BOUNDARY DESCRIPTION
OWNERS DEDICATION
SOUTH UTAH VALLEY SOLID WASTE DISTRICT SUBDIVISION
ACKNOWLEDGEMENT
LEGEND
CURVE TABLE
PLANNING COMMISSION
ENGINEER'S CERTIFICATE
APPROVAL AS TO FORM
CITY COUNCIL
RECORDED
1 OF 1


PLANT MATERIAL LIST
NOTES
PLANTING PLAN
JRCA
ARCHITECTS
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
PLANTING PLAN
L-101


IRRIGATION LEGEND
IRRIGATION PLAN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
L-102


SPRINKLER LEGEND
MATCH LINE
ENLARGED WEST AREA PLANTING PLAN
NORTH
0
50
100
JRCA
ARCHITECTS
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
ENLARGED IRRIGATION PLAN: WEST
L-103


MATCH LINE
ENLARGED EAST AREA PLANTING PLAN
1" = 20'
SPRINKLER LEGEND
NORTH
0
50
100
JRCA
ARCHITECTS
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
ENLARGED PLANTING PLAN EAST
L-104

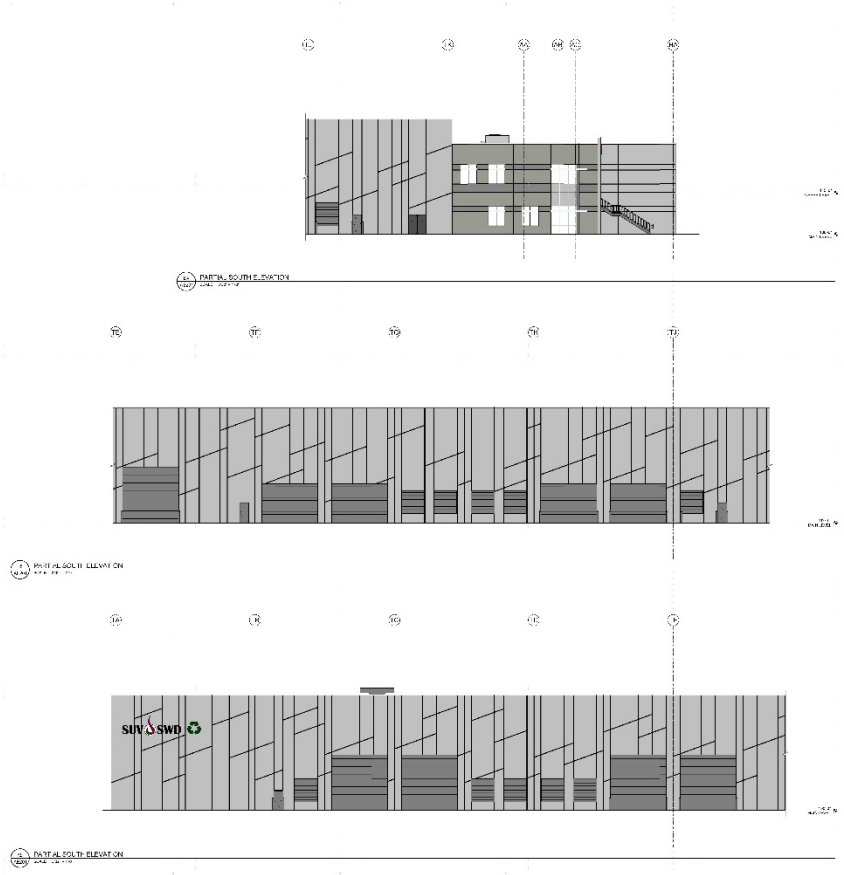


JRCA ARCHITECTS
577 South 200 East
M.S.C. Utah 84111
ph: (801) 533-2100
jrcadesign.com

SUVSWD ENVIRONMENTAL RECOVERY FACILITY
SARATOGA SPRINGS, UTAH 84060

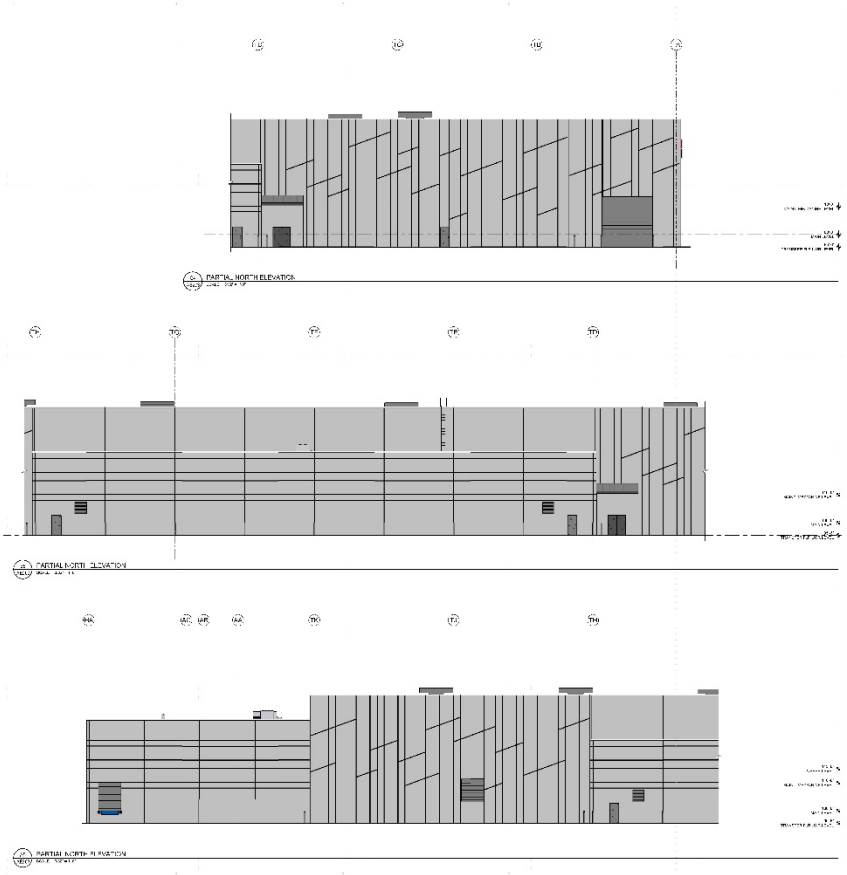
LANDSCAPE DETAILS

L-105

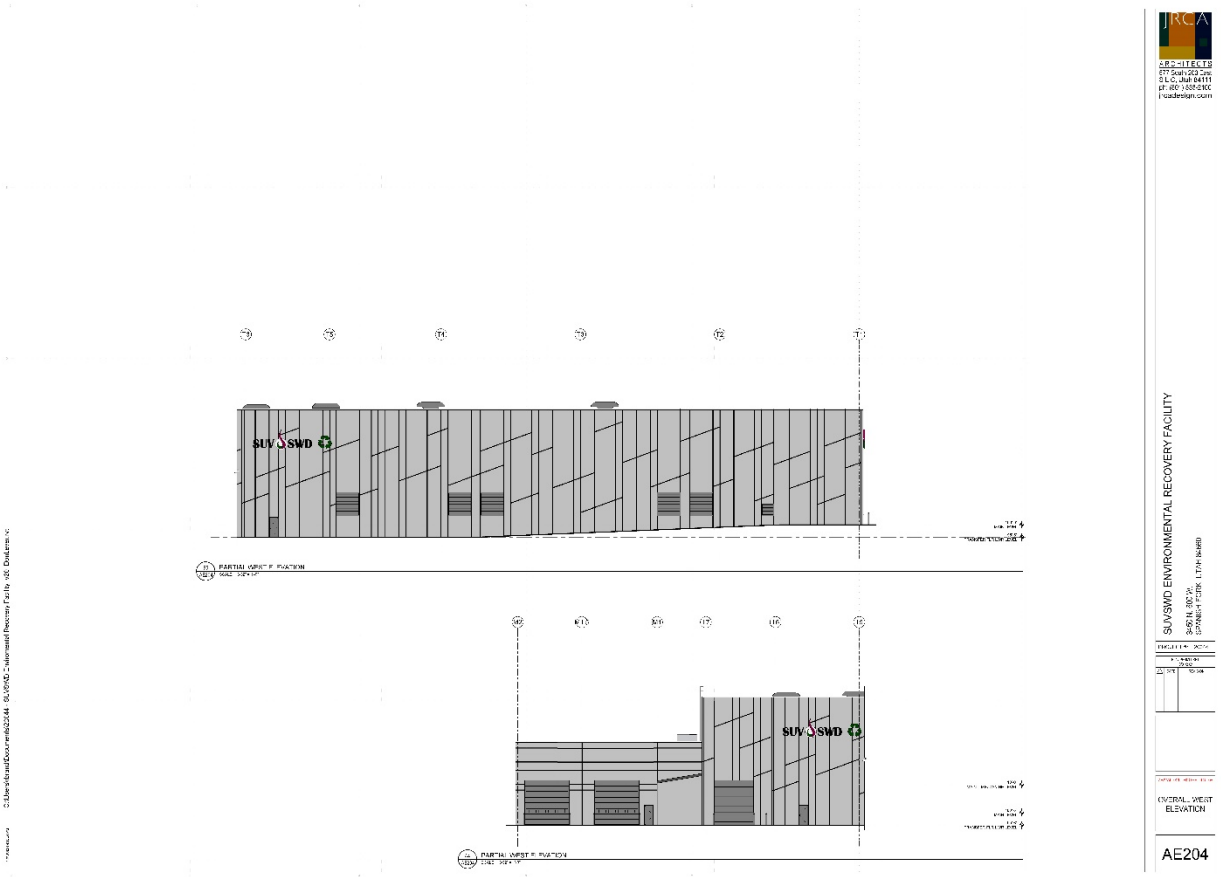


JRCA
ARCHITECTS
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
OVERALL SOUTH ELEVATION
AE201


PARTIAL EAST ELEVATION
PARTIAL EAST ELEVATION
JRCA
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
OVERALL EAST ELEVATION
AE202



JRCA ARCHITECTS
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
OVERALL NORTH ELEVATION
AE203

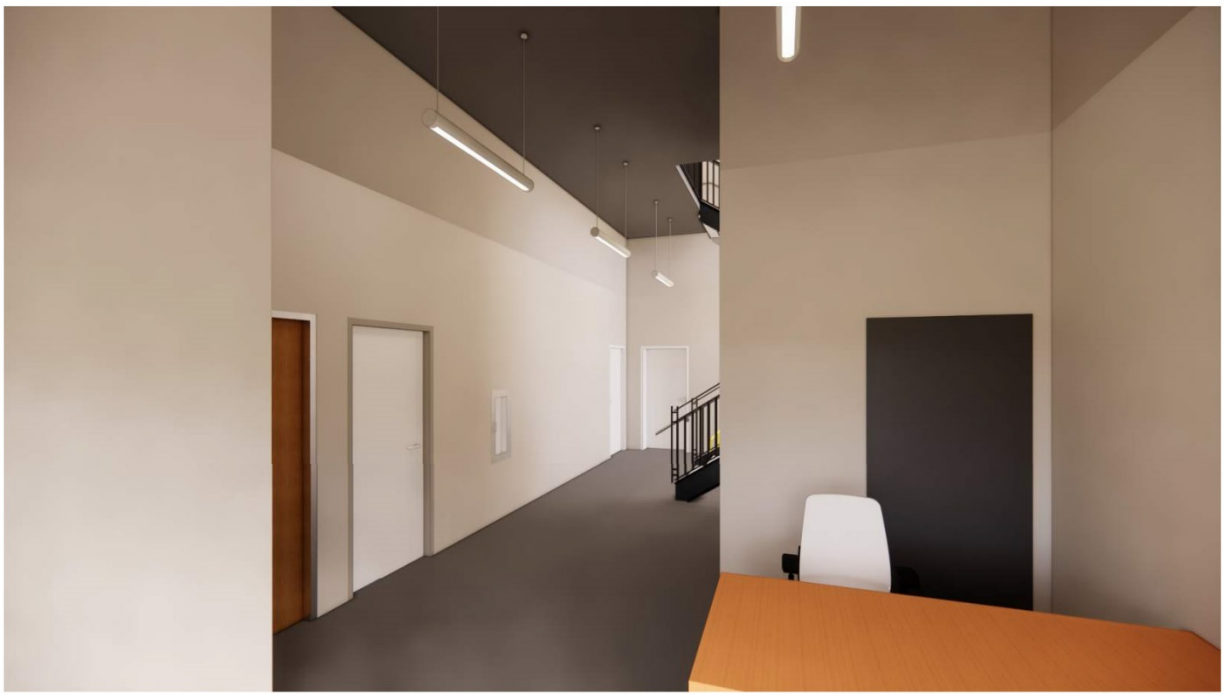

SUV SWD
SUV SWD
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
OVERALL WEST ELEVATION
AE204



FORSGREN Associates Inc.

SUV SWD

March 9, 2022



FORSGREN Associates Inc.

SUV SWD



FORSGREN Associates Inc.

SUV SWD



FORSGREN Associates Inc.

SUV SWD



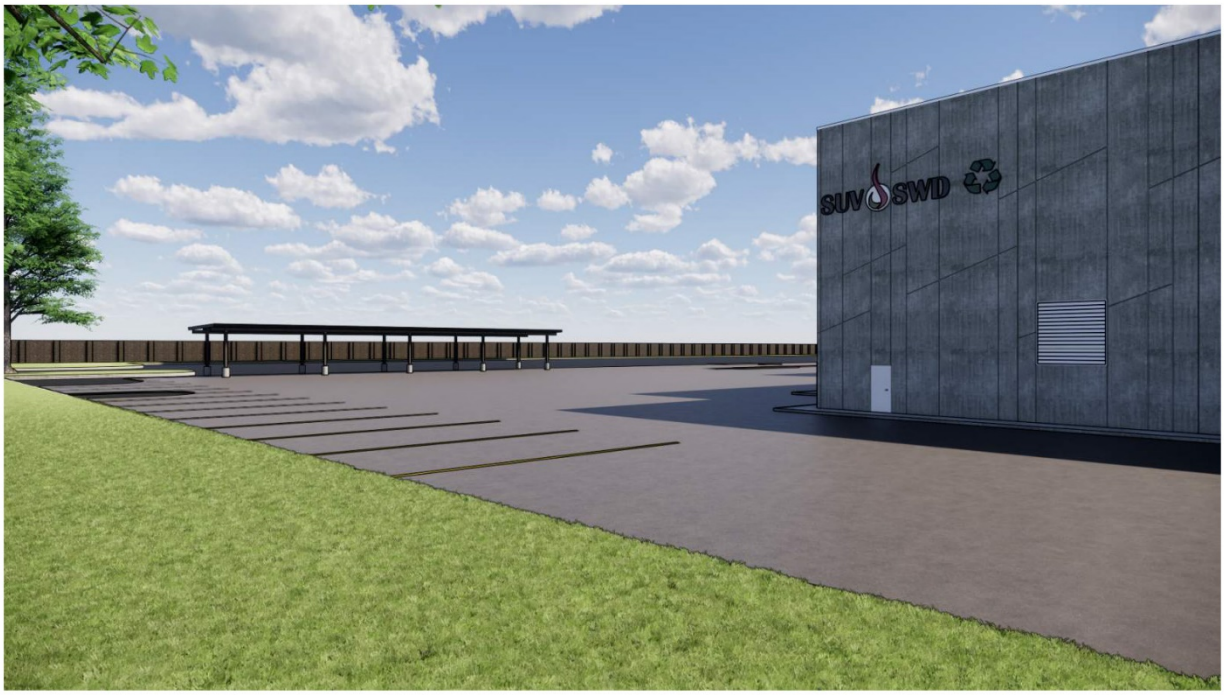
FORSGREN Associates Inc.

SUV SWD



FORSGREN Associates Inc.

SUV SWD



FORSGREN Associates Inc.

SUV SWD



FORSGREN Associates Inc.

SUV SWD



FORSGREN Associates Inc.

SUV SWD

SUVSWD New Environmental Recovery and Transfer Center

STATEMENT OF USE

South Utah Valley Solid Waste District
2450 W. 400 S.
Springville, UT 84663
www.suvswd.org
801-489-3027

FORSGREN Associates Inc.
370 E. 500 S. Ste 200
Salt Lake City, UT 84111
www.forsgren.com
801-364-4785

January 2022

SUVSWD is in the south end of Utah County, and is made up of several member municipalities, including Provo, Springville, Spanish Fork, Mapleton, Salem, Woodland Hills, and Goshen. In 1990, SUVSWD opened its doors to a new transfer station in Springville designed to serve each of its member cities, excluding Goshen who transports its city's waste directly to Bayview landfill.

Due to the rapid population growth seen throughout the south end of Utah County, the District is now disposing of more than 200,000 tons per year of solid waste. SUVSWD has purchased land in Spanish Fork to construct a New Environmental Recovery and Transfer Center to meet the growing solid waste needs for the district's member cities. The 23-acre green-field property is located at approximately 3450 North 550 West, Spanish Fork, UT.

This new facility is designed with safety and efficiency at the forefront. Self-haul and public access will be separate from commercial and curbside collection vehicles, including separate entrances. Public access will be from the newly constructed 3450 North roadway. Commercial and hauling access will be from the newly constructed 600 West roadway. The facility will utilize (3) three side load compactors to efficiently compact and transfer waste from the tipping floor to hauling vehicles. All waste operations will take place inside the fully enclosed 110,000 square foot building. Household hazardous waste (HHW) will be contained and processed inside its own adjacent building.

The new state-of-the-art facility is designed to be a tilt-up concrete structure. Other onsite structures include a maintenance building, HHW building, administration building, scale house, and other site structures. Sizing is based on average and peak day throughputs of 1,000 and 1,600 tons/day, respectively.

Hours of Operation

SUVSWD expects to continue operating the same as its existing facility. The following hours of operation are anticipated:

- Mon-Sat 7am-6pm
- Closed Sunday
- Closed on Major Holidays

Traffic Volumes

A traffic impact study was completed by Hales Engineering to analyze anticipated traffic flows on the new roadway, this study can be provided at the City's request. Future peak data assumes the following:

- 137 trips/hour during the morning peak hour
- 118 trips/hour during the evening peak hour
- 40 hauling trips/day

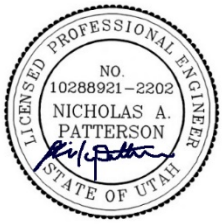
Number of Employees

SUVSWD expects to continue with similar staffing numbers as currently utilized at the existing facility. Additional staff may be added in the future as needed for hauling and operations. SUVSWD currently staffs between 35-40 employees.

SUVSWD

FORSGREN Associates Inc.

PREPARED FOR:	Spanish Fork City
PREPARED BY:	Nick Patterson, PE, Forsgren Associates
CC:	Terr Ficklin, SUVSWD District Manager
DATE:	February 25, 2022
SUBJECT:	SUVSWD ERF – Site Plan Comment Resolution



Community Development Comments:

- We need a description of the operational steps that will be taken to mitigate the potential impact that this facility will have on the community. This may include information on equipment that will be employed to reduce odors, regulations pertaining to uncovered loads, truck routes, hours of operation and information about how long garbage will be kept on-site.

SUVSWD/Forsgren Associates Response:

- Odor Reduction/Mitigation:
  - The new Transfer Station facility includes dust and odor control by way of a water/enzyme misting system supplied by FOGCO. The FOGCO system is divided into (3) independently controlled zones over the transfer station tipping floor to provide the owner flexibility in controlling dust and delivery of the odor controlling solution. Odors
    - Priority zone 1 is located over the main commercial waste drop off area and will operate the majority of open hours.
    - Priority zones 2 and 3 are located over the self-haul/public drop areas. These are controlled remotely and will be used as needed for odor and dust control.
    - The images shown below present the pump system and provide an example of a similar transfer station odor control system in operation.

Figure 1 - FOGCO Odor/Misting System



Figure 2 - Seattle North TS Misting/Odor Control System



- Uncovered Load Regulations:
  - SUVSWD's current policy requires that all loads are covered, this is a Utah state law. Uncovered loads are charged an additional $4 fee on top of the load fee.
  - Member cities are encouraged to help educate residents on the importance of covering waste loads when coming to the transfer station.
  - This policy will remain intact at the new facility and reviewed periodically to ensure fees and policies remain effective.

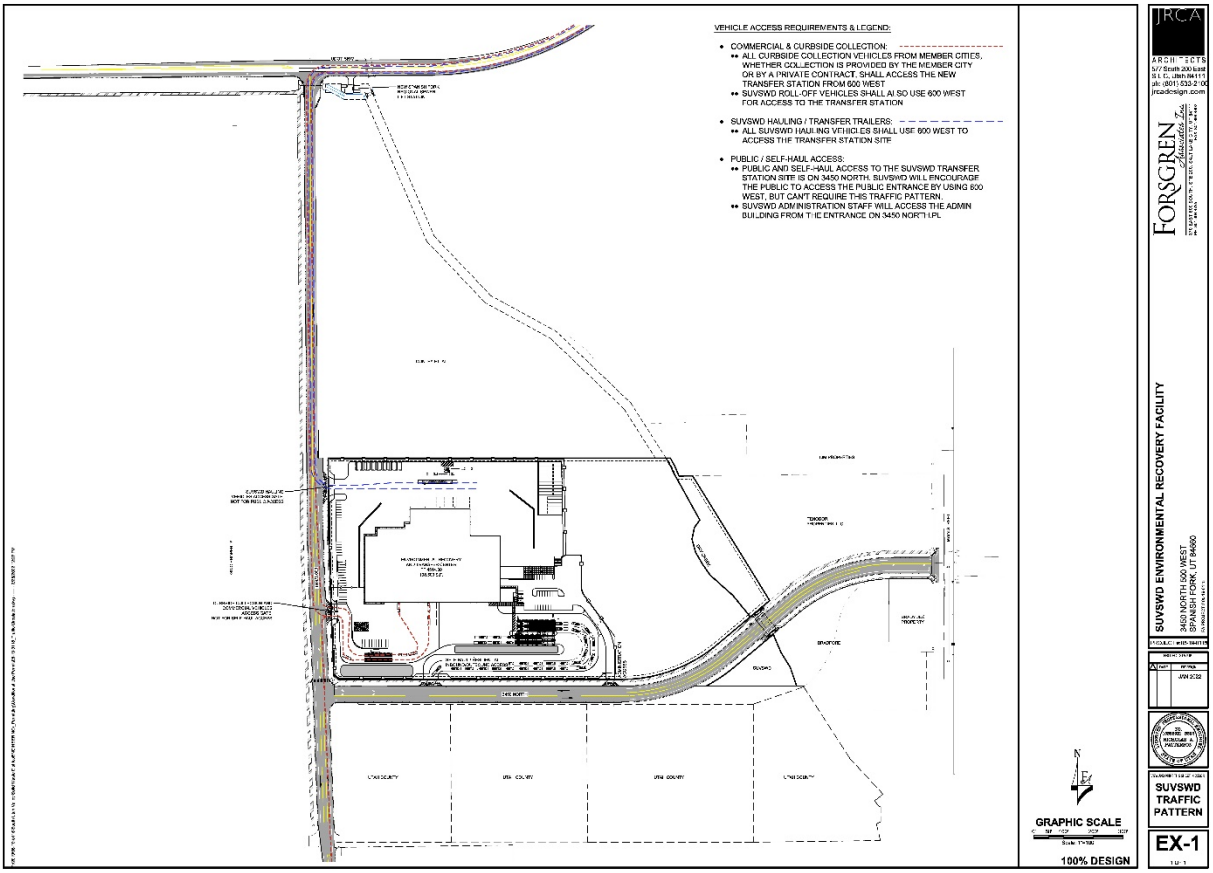
- Truck and Vehicle Routes:
  - Inbound / outbound access points have been purposefully located on 600 West and 3450 North to help direct main flows of traffic to 600 West. See the attached traffic circulation exhibit.
    - Cities providing their own curbside collection will be encouraged to adopt traffic routes where curbside collection vehicles use SR77 and 600 West as their only access routes.
    - Cities who contract curbside collection to private haulers will be encouraged to add language in their contracts requiring curbside collection vehicles to use SR77 and 600 West as their only access routes.
    - SUVSWD hauling trucks will only use 600 West and SR77 as their access points.
    - Self-haul and public vehicles will be encouraged to utilize 600 west.
    - Signage will be provided by SUVSWD on 600 West and 3450 North at locations directed by Spanish Fork City.

- Site and Facility Design Enhancements:
  - Curbside collection vehicles, hauling trucks, and public traffic will each have their own entrances, scales, and drop off areas inside the facility. This key feature will provide an elevated level of safety for residents coming to the transfer station, faster transaction times, and quicker drop off times.
  - Public scales will be fully covered with a canopy.
  - Electric charging stations will be installed at the administration building.

- The administration building will include an educational room where SUVSWD can teach the public about solid waste and hold board meetings.
- The Household Hazardous Waste building will safely process and dispose of HHW items brought by residents.
- The HHW building also includes a document shredding room that is open to the public for safe disposal of sensitive items.
- The transfer station has a sophisticated HVAC system where air is circulated continuously and changed 6 times per hour. The system creates negative pressure into the facility as the roll-up doors open to keep trash from exiting.
- Both the residential and commercial side are equipped with fast-acting rubber roll-up doors to keep the facility well contained during operating hours.
- Landscaping and road cleanup are currently part of the SUVSWD yearly budget. This will continue at the new facility with cleanup and landscaping services contracted with an outside provider, in order to keep roadways and landscaping up to Spanish Fork City standards.

- Hours of Operation:
  - Hours of operation will be Monday through Saturday from 7am – 6pm.
  - Closed Sundays and Holidays

- Keeping Waste Onsite:
  - All waste is stored, processed, and compacted inside the new 109,000 square foot transfer station building, or inside 53-foot trailers attached to the loading docks.
  - During normal hours of operation, municipal solid waste (MSW) is removed within a couple hours of arriving at the facility.
  - Bayview landfill closes at 4:30pm, so waste received at the transfer station after 3pm will be loaded into hauling trailers and staged for delivery first thing the following morning.
  - Waste collected on Saturdays is stored in hauling trailers until Monday morning.
  - The following presents typical waste removal intervals:
    - MSW: Daily (24-30 loads per day)
    - Recycling: Daily (2-3 loads per day)
    - C&D: Daily (1-2 loads per day)
    - White Goods: Weekly
    - E-Waste (Electronics) Weekly
    - Tires: Weekly
    - Metals: Daily
    - HHW: Weekly
    - Mattresses: Weekly


VEHICLE ACCESS REQUIREMENTS & LEGEND:
COMMERCIAL & CURBSIDE COLLECTION:
ALL CURBSIDE COLLECTION VEHICLES FROM MEMBER CITIES, WHETHER COLLECTION IS PROVIDED BY THE MEMBER CITY OR BY A PRIVATE CONTRACT, SHALL ACCESS THE NEW TRANSFER STATION FROM 600 WEST
SUVSWD ROLL-OFF VEHICLES SHALL ALSO USE 600 WEST FOR ACCESS TO THE TRANSFER STATION
SUVSWD HAULING / TRANSFER TRAILERS:
ALL SUVSWD HAULING VEHICLES SHALL USE 600 WEST TO ACCESS THE TRANSFER STATION SITE
PUBLIC / SELF-HAUL ACCESS:
PUBLIC AND SELF-HAUL ACCESS TO THE SUVSWD TRANSFER STATION SITE IS ON 3450 NORTH. SUVSWD WILL ENCOURAGE THE PUBLIC TO ACCESS THE PUBLIC ENTRANCE BY USING 600 WEST, BUT CAN'T REQUIRE THIS TRAFFIC PATTERN.
SUVSWD ADMINISTRATION STAFF WILL ACCESS THE ADMIN BUILDING FROM THE ENTRANCE ON 3450 NORTH.
GRAPHIC SCALE
100% DESIGN
JRCA
FORSGREN
SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3450 NORTH 600 WEST
SPANISH FORK, UT 84660
SUVSWD TRAFFIC PATTERN
EX-1

LEGEND

EXISTING / PROPOSED

MATCH LINE
CENTER LINE
CONTROL LINE
PROPERTY OR R/W LINE
EASEMENT LINE
STREET MONUMENT LINE
MASONRY WALL
CHAIN LINK FENCE
BARBED WIRE FENCE
CONTOUR LINE — 4250
SPOT ELEVATION — +EL=4354.63 / EL=4354.66
BANK SLOPES
CANAL
OPEN DITCH
UNDERGROUND ELECTRIC — (uge) / UGE
OVERHEAD ELECTRIC — (ohe) / OHE
ELECTRIC BOX — E
ELECTRIC MANHOLE — E
ELECTRIC METER
NATURAL GAS LINE — (ng) / NG
NATURAL GAS VALVE — GAS
NATURAL GAS METER
PRESSURIZED IRRIGATION LINE — (irr) / IRR
PROCESS/LEACHATE DRAIN — D / D
SANITARY SEWER LINE — (ss) / SS
SANITARY SEWER CLEANOUT — SS
SANITARY SEWER MANHOLE — S
STORM DRAIN LINE — (sd) / SD
STORM DRAIN CATCH BASIN
STORM DRAIN INLET(S)
STORM DRAIN COMBO BOX
STORM DRAIN MANHOLE — D
STORM DRAIN CLEANOUT BOX — D
STORM DRAIN VAULT — SDV
CULVERT — (sd) / SD
TELEPHONE CABLE — (comm) / COMM
TELEPHONE BOX — T
TELEPHONE MANHOLE — T
TELEPHONE POST
POTABLE WATER LINE — (pw) / PW
NON-POTABLE WATER LINE — (npw) / NPW
FIRE HYDRANT — FH
FIRE RISER — FR
FIRE WATER LINE — FL / FL
WATER VALVE — WV
WATER AIR RELEASE VALVE — ARV
WATER METER — WM
UTILITY POLE & ANCHOR
POWER POLE
STREET LIGHT
LIGHT
ASPHALT PAVING
CURB & GUTTER
SIDEWALK
RAILROAD TRACKS
GUARD RAIL
SIGN
STRUCTURE
LANDSCAPING (TREES ETC.)
ROOF DRAIN
SECTION CORNER — 12 / 11 / 4 / 3
MONUMENT
BENCH MARK — BM NO. 46 ELEV=4256.50
TESTING BOREHOLE — BH NO.1

ANNOTATION

REVISION TRIANGLE — 1 — REVISION NO.

KEYNOTE CALLOUT — 1 — KEYNOTE REFERENCE

PIPE CALLOUT — SYSTEM / SIZE / WW 55" SS / MATERIAL / Description / DESCRIPTION

EQUIPMENT CALLOUT — SYSTEM / TAG NUMBER / XXXXX / Description / DESCRIPTION

DETAIL NAME

DETAIL NAME — DETAIL # 1 — SCALE: N.T.S. — SCALE — SPEC # 00 00 00 — SPECIFICATION NO.

DETAIL CALLOUT — DETAIL # 1 — ABC — DETAIL NAME/ DESCRIPTION — C-001 — 123 — SHEET NO.

SECTION NAME

SECTION NAME — DESIGNATION A — SCALE: 1"=1" — SCALE

SECTION CALLOUT — DESIGNATION A — C-001 — SHEET NO.

VIEW NAME

VIEW NAME — SCALE: 1"=1" — VIEWPORT SCALE

ISOMETRIC VIEW CALLOUT — DESIGNATION A — SHEET NO.

GENERAL CALLOUT — GENERAL NOTE

HATCHING/PATTERNS

CONCRETE
ASPHALT PAVEMENT
SAND
UNDISTURBED SOIL
GROUTED RIP RAP
LOOSE RIP RAP
UNTREATED BASE COURSE
STRUCTURAL FILL
EXISTING WETLANDS (TO REMAIN)
WETLANDS REMEDIATION AREA
WATER
DEMOLITION AREA
BACKFILL
STEEL
CONCRETE MASONRY UNIT (CMU)

CIVIL ABBREVIATIONS

ABUT	ABUTMENT
AC	ASPHALT CEMENT
AFG	ABOVE FINISHED GRAGE
ALT	ALTERNATE
APPROX	APPROXIMATELY
ARV	AIR RELEASE VALVE
ASP	ASPHALT
BC	BUILDING CORNER
BCR	BEGIN CURB RETURN
BEG	BEGINNING/BEGIN
BDRY	BOUNDARY
BFG	BELOW FINISHED GRADE
BK	BACK
BKFL	BACKFILL
BLDG	BUILDING
BLM	BUREAU OF LAND MANAGEMENT
BM	BENCH MARK
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BTWN	BETWEEN
BOF	BOTTOM OF FOOTING
BW	BACK OF WALK
CALC	CALCULATED
CB	CATCH BASIN
CCW	COUNTERCLOCKWISE
C-C	CENTER TO CENTER
C&G	CURB AND GUTTER
CFS	CUBIC FEET PER SECOND
CLS	CLASS
℄ or CL	CENTERLINE/CONTROL LINE
CIP	CAST IRON PIPE
cm	CENTIMETER
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE-ARCH
COB	CLEAN OUT BOX
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCT
COR	CORNER
CORR	CORRUGATED
CEN	CENTER
CP	CONCRETE PAD
CU	CUBIC
CULV	CULVERT
CW	CLOCKWISE
°	DEGREE
DET	DETAIL
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DIST	DISTANCE
DN	DOWN
DWG	DRAWING
DRWY	DRIVEWAY
E	EAST
EA	EACH
ECR	END CURB RETURN
ELEV	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
EMB	EMBANKMENT
EO	EDGE OF OIL
EOA	EDGE OF ASPHALT
EXC	EXCAVATION
EQUIP	EQUIPMENT
EST	ESTIMATE
EXIST	EXISTING
FC	FENCE CORNER
FEN	FENCE
FD	FOUND
FDN	FOUNDATION
FG	FINISH GRADE
FIN	FINISH
FL OR ℄	FLOW LINE
FLR	FLOOR
FLG	FLANGE
FPS	FEET PER SECOND
FS	FINISH SURFACE
FT	FEET
FTG	FOOTING
G	GAS
GALV	GALVANIZED
GM	GAS METER
GRD	GROUND
GV	GAS VALVE
HDWL	HEADWALL
H&T	HUB AND TACK
HORIZ	HORIZONTAL
HWL	HIGH WATER LEVEL
HWY	HIGHWAY
HYD	HYDRANT
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IRR	IRRIGATION
INV	INVERT
JCT	JUNCTION
JB	JUNCTION BOX
km	KILOMETER
L	LENGTH
LB	POUND
LF	LINEAR FEET
LIN	LINEAR/LINEAL
LT	LEFT
LWL	LOW WATER LEVEL
m	METER
MATL	MATERIAL
MAX	MAXIMUM
MKR	MARKER
MH	MANHOLE
MI	MILE
MISC	MISCELLANEOUS
MON	MONUMENT
MPH	MILES PER HOUR
N	NORTH
N/A	NO ACCESS or NOT APPLICABLE
NIC	NOT IN CONTRACT
NRCP	NON-REINFORCED CONCRETE PIPE
NTS	NOT TO SCALE
No	NUMBER
OBLIT	OBLITERATE
OD	OUTSIDE DIAMETER
O-O	OUTSIDE TO OUTSIDE
OFF REV	OFFICE REVISION
ORIG	ORIGINAL
PVMT	PAVEMENT
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PE	POLYETHELENE
PERF	PERFORATED
PI	POINT OF INTERSECTION
PL or P L	PROPERTY LINE
POB	POINT OF BEGINNING
POC	POINT ON CURVE
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PROJ	PROJECT
PROP	PROPERTY
PSC	POINT OF SPIRAL CURVE
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RANGE/RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REF	REFERENCE
REINF	REINFORCED
REQD	REQUIRED
REV	REVISION
RP	REFERENCE POINT/RADIUS POINT
RR	RAILROAD
RT	RIGHT/ROUTE
R/W	RIGHT OF WAY
S	SOUTH
SAN	SANITARY
SC	SCALES
SCHED	SCHEDULE
SD	STORM DRAIN
SEC	SECTION
SHT	SHEET
SLB&M	SALT LAKE BASE & MERIDIAN
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	SANITARY SEWER
ST	STREET
STL	STEEL
STA	STATION
STD	STANDARD
STRUCT	STRUCTURE
T	TOWNSHIP, TELEPHONE
TAN	TANGENT
TBC	TOP BACK CURB
TEMP	TEMPORARY
TEL	TELEPHONE/TELEGRAM
TH	TEST HOLE
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TP	TELEPHONE POLE
TYP	TYPICAL
UBC	UNIFORM BUILDING CODES
UG	UNDERGROUND
UT	UNDERGROUND TELEPHONE
VB	VALVE BOX
VC	VERTICAL CURVE
VERT	VERTICAL
VOL	VOLUME
VPI	VERTICAL POINT OF INTERSECTION
VPC	VERTICAL POINT OF CURVE
VPT	VERTICAL POINT OF TANGENCY
W	WEST/WATER
WM	WATER METER
WP	WORK POINT
WV	WATER VALVE
XING	CROSSING
XSEC	CROSSING SECTION
Yd	YARD
@	AT
&	AND
<	ANGLE
Ø	ROUND or DIAMETER
W/	WITH
W/O	WITHOUT
△	DELTA
%	PERCENT

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
270 EAST 500 SOUTH. STE 200. SALT LAKE CITY, UT 84111
PH: 801.364.4052 FAX: 801.364.4092

SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3450 NORTH 500 WEST
SPANISH FORK, UT 84660
FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

△	DATE	REVISION
		AUG. 2021

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

VIEW AND PRINT THIS SHEET IN COLOR

CIVIL LEGEND, NOTES, SYMBOLS & ABBREVIATIONS

C-001

XX OF XX

GENERAL NOTES

1. ANY MODIFICATION TO THIS CONSTRUCTION PACKAGE SHALL BE APPROVED BY THE ENGINEER, PRIOR TO SAID APPROVAL, ALL IMPROVEMENT DRAWINGS SHALL BE UPDATED AT THE CONTRACTOR'S EXPENSE, RESUBMITTED, AND APPROVED BY THE ENGINEER UNLESS NOTED OTHERWISE.
2. PROJECT SHALL BE CONSTRUCTED TO SPANISH FORK CITY STDS, APWA STDS, AND TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS IN THE PROJECT MANUAL. IN THE EVENT OF A CONFLICT, THE MOST STRINGENT SPECIFICATION WILL APPLY.
3. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL INDEMNIFY, AND HOLD THE OWNER, ARCHITECT, ENGINEER, AND SUB-CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, ENGINEER, OR SUB-CONSULTANTS
4. UTILITIES SHOWN ON THE PROJECT PLANS ARE APPROXIMATE. CONTRACTOR SHALL NOTIFY BLUE STAKES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL LOCATE, RETAIN AND PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE DIRECTED BY THE OWNER AND AS SHOWN ON THE PROJECT PLANS. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL UTILITY CONFLICTS UPON DISCOVERY.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENTS OF ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS IMPACTED BY CONSTRUCTION.
7. CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY TRENCH SETTLEMENT OR DAMAGE TO EXISTING UTILITIES.
8. EXISTING UTILITY SERVICE SHALL BE MAINTAINED THROUGH CONSTRUCTION PROCESS. IF A UTILITY SERVICE IS GOING TO BE INTERRUPTED, ALL AFFECTED PROPERTY OWNERS ARE TO BE NOTIFIED IN WRITING BY THE CONTRACTOR 72 HOURS BEFORE THE DISRUPTION.
9. RECORD DRAWINGS ARE TO BE PROVIDED TO THE OWNER IN ELECTRONIC AND PRINTED FORMATS PRIOR TO FINAL PAYMENT. AS PART OF THE RECORD DRAWINGS, THE CONTRACTOR SHALL USE A SURVEY GRADE GPS DEVICE TO RECORD THE LOCATION OF DISCOVERED AND INSTALLED UTILITY LINES. THE SURVEY SHALL BE PERFORMED AS LINES ARE FOUND AND LINES ARE INSTALLED AND SHALL BE DONE PRIOR TO THE LINE BEING COVERED. LINE NOT MEASURED WILL BE UNCOVERED, RE-BACKFILLED, AND RE-PAVED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. THE SURVEY INFORMATION SHALL INCLUDE ALL FOUND AND INSTALLED WATER LINE BENDS, ELBOWS, AND VALVES, SEWER MANHOLES, STORM DRAIN CATCH BASINS AND INLET BOXES, COMMUNICATION LINES, ELECTRICAL LINES, AND OTHER FOUND OR INSTALLED UTILITY LINES. THE SURVEY WILL SHOW THE ELEVATION AND DESCRIPTION OF THE UTILITY. THE SURVEY WILL BE TIED TO THE SITE HORIZONTAL AND VERTICAL CONTROL. LINES SHALL BE SURVEYED AS THEY ARE BEING BACKFILLED.
10. ALL WORK MUST BE SUBSTANTIALLY COMPLETE PRIOR TO THE DATE STATED IN THE CONTRACT. THE CONTRACTOR SHALL PROVIDE MULTIPLE CREWS, WORK MULTIPLE SHIFTS, ETC. AS NEEDED TO GET WORK SUBSTANTIALLY COMPLETE BY THE DEADLINE. SUBSTANTIALLY COMPLETE INCLUDES BUT IS NOT LIMITED TO ALL EXCAVATION, FILL, BACKFILL, PAVING, PAINTING, STRIPING, AND CONCRETE WORK COMPLETED AND READY FOR OWNER'S USE.
11. STOCKPILES SHALL BE GRADED TO MAINTAIN SLOPES NOT GREATER THAN 3:1 HORIZONTAL TO VERTICAL OR AS INDICTED IN THE GEOTECHNICAL REPORT PROVIDED FOR THIS PROJECT. PROVIDE EROSION CONTROL AS NEEDED TO PREVENT SEDIMENT TRANSPORT TO ADJACENT DRAINAGE WAYS.
12. INSTALL TRAFFIC WARNING DEVICES AS NEEDED IN ACCORDANCE WITH LOCAL STANDARDS TO KEEP UNAUTHORIZED TRAFFIC OUT OF THE CONSTRUCTION AREA. THE CONTRACTOR SHALL MAINTAIN AN ACCESS ROUTE THROUGH THE SITE FOR FIREFIGHTING AND OTHER EMERGENCY EQUIPMENT.
13. CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CONSTRUCTION AND DEMOLITION FROM CITY, COUNTY, STATE, AND OR FEDERAL AGENCIES AS REQUIRED.
14. STREETS SHALL BE KEPT CLEAN TO THE SATISFACTION OF THE ENGINEER AND OWNER.

UTILITY NOTES

1. VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTING ANY NEW UTILITY LINES. NOTIFY OWNER AND CIVIL ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO ANY CONNECTIONS BEING MADE.
2. ALL CATCH BASIN AND INLET BOX GRATES ARE TO BE BICYCLE SAFE. INLET BOXES AND CATCH BASINS MAY BE CAST IN PLACE OR PRECAST. ALL INLET BOXES ARE TO ALIGN WITH THE ADJACENT CURB AND GUTTER. MISALIGNED OR OFFSET INLET BOXES ARE TO BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
3. REFER TO SITE ELECTRICAL PLANS FOR DETAIL AND LOCATION OF ELECTRICAL LINES, LIGHT POLES, SWITCHGEAR, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT.
4. GAS LINES, TELEPHONE LINES, AND COMMUNICATION LINES ARE NOT PART OF THESE PLANS UNLESS NOTED OTHERWISE.
5. WATER LINES, VALVES, FIRE HYDRANTS, FITTINGS, ETC. ARE TO BE CONSTRUCTED AS INDICATED. THE CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ANY VERTICAL ADJUSTMENTS NECESSARY TO CLEAR SEWER, STORM DRAIN, CONDUIT, GAS LINES, COMMUNICATION LINES, WATER LINES, OR OTHER UTILITY LINES AS NECESSARY INCLUDING VALVE BOXES, AND HYDRANT SPOOLS TO FINISH GRADE.
6. TRACER WIRE AND MARKING TAPE ARE REQUIRED ON ALL PIPING MAINS AND LATERALS. TRACER WIRE SHALL BE INSTALLED DIRECTLY ABOVE THE PIPE.
7. PROVIDE THRUST BLOCKS FOR ALL WATER MAIN BENDS. SIZE THE THRUST BLOCK BASED ON THE WORKING PRESSURE AND SOIL BEARING CONDITIONS. ALL THRUST BLOCKS SHALL BE CAST AGAINST UNDISTURBED SOIL.
8. ALL PIPING TO BE INSTALLED PER MANUFACTURES RECOMMENDATIONS REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.
9. ALL OPEN TRENCHES SHALL BE COVERED WITH REMOVABLE PLATES DURING NON-WORKING HOURS.
10. CONTRACTOR SHALL MAINTAIN A MINIMUM 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION BETWEEN POTABLE WATER LINES AND NON-POTABLE UTILITY PIPING.
11. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH UTILITY OWNER'S SPECIFICATIONS. CONTRACTOR SHALL COORDINATE ALL SUCH WORK WITH UTILITY OWNER.
12. CONTRACTOR SHALL NOT ALLOW ANY GROUNDWATER OR DEBRIS TO ENTER NEW PIPES DURING CONSTRUCTION.
13. CONTRACTOR SHALL PROVIDE DEWATERING OF GROUNDWATER. PROVIDE TRENCH SHORING AS NECESSARY. REFER TO SPECIFICATION 31 22 40, AND GEOTECHNICAL REPORT.

SITE NOTES

1. DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE. RADIUS DIMENSIONS ARE TO BACK OF CURB. UNLESS OTHERWISE NOTED.
2. ALL SIDEWALKS AND BACK OF CURB SHALL BE GRADED AT 2% CROSS SLOPE OR LESS.
3. CONCRETE SHALL BE 4000 PSI CONCRETE OR GREATER. ALL EXTERIOR CONCRETE SHALL HAVE FIBER MESH INCLUDING SIDEWALKS, PADS, SLABS, RETAINING WALLS, AND CURB & GUTTER.
4. ASPHALT PAVING SHALL BE A MINIMUM OF 3-INCHES THICK UNLESS OTHERWISE NOTED. IF THICKER, THE PAVING SHALL BE DONE IN LIFTS OF UP TO 3-INCHES THICK AND AT LEAST 1.5-INCHES THICK. USE ASPHALT AND GRADATION SPECIFIED IN THE SPECIFICATIONS. COMPACT ASPHALT TO BETWEEN 92% AND 96% OF MAXIMUM DENSITY. AREAS COMPACTED TO MORE THAN 96% SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
5. PROOF ROLL SUBGRADE WITH FULLY LOADED WATER TRUCK OR OTHER SIMILARLY LOADED VEHICLE TO FIND SOFT SPOTS. PROOF ROLLING IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND NO ADDITIONAL PAYMENT FOR PROOF ROLLING WILL BE PAID TO THE CONTRACTOR. REMOVE AND REPLACE SOFT SPOTS TO NOT LESS THAN 12-INCHES BELOW SUBGRADE OR DEEPER AS DIRECTED BY THE OWNER AND AS SPECIFIED IN THE SPECIFICATIONS. REPLACE SOFT SPOTS WITH GRANULAR FILL, COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557. SOFT SPOT REMOVAL WILL BE PAID ACCORDING TO THE SPECIFICATIONS.
6. COMPACT ROAD BASE TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557.
7. ALL WORK INSIDE OF CITY RIGHT OF WAY TO CONFORM THE PROJECT MANUAL (PLANS AND SPECIFICATIONS).

DEMOLITION NOTES

1. DEMOLITION FOR THE CONTRACT IS TO INCLUDE ALL AREAS SHOWN WITHIN THE DEMOLITION LIMITS OR BY NOTE.
2. REFER TO THE SITE PLAN FOR MORE DETAILS ON CONNECTIONS TO EXISTING FEATURES AND LIMITS OF REMOVAL.
3. SAW CUT ASPHALT IN AREAS INDICATED. FIELD VERIFY SAW CUT LOCATIONS WITH OWNER PRIOR TO CUTTING ASPHALT. SAW CUT IN NEAT, STRAIGHT LINES PRIOR TO EXCAVATION.
4. RETAIN AND PROTECT EXISTING BUILDINGS TO REMAIN INCLUDING ALL FOOTINGS, FOUNDATIONS, AWNINGS, AND OVERHANGS.
5. CLEAR AND GRUB TREES, AND OTHER VEGETATION INCLUDING ROOT BALLS, AND ROOTS FOR AREAS INSIDE THE DEMOLITION LIMITS UNLESS OTHERWISE NOTED.
6. DO NOT INTERRUPT THE SERVICES OR DISRUPT THE OPERATION OF ANY BUSINESS OR OWNER FUNCTIONS OUTSIDE OF THE DEMOLITION LIMITS.
7. REMOVE DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM THE DEMOLITION AND SITE CLEARING OPERATIONS FROM THE SITE AND DISPOSE OF IN A LEGAL MANNER UNLESS DIRECTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL WASTE MATERIAL. DISPOSAL SHALL BE AT AN APPROVED SITE FOR SUCH MATERIAL. BURNING OR BURYING OF WASTE MATERIAL ONSITE IS NOT PERMITTED.
8. FILL HOLES CREATED FROM DEMOLITION WITH ENGINEERED FILL COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 1557 UNLESS ADDITIONAL EXCAVATION IS PART OF THE CONSTRUCTION PROJECT.
9. ALL STREET DEMOLITION AND CONSTRUCTION (OUTSIDE OF THE PROPERTY LINE) SHALL BE IN STRICT COMPLIANCE WITH CITY REQUIREMENTS. SITE DEMOLITION AND CONSTRUCTION INSIDE OF THE PROPERTY LINE SHALL BE IN STRICT COMPLIANCE WITH PROJECT MANUAL REQUIREMENTS.
10. NATIVE SOILS ARE NOT ACCEPTABLE FOR SITE FILL UNLESS NOTED OTHERWISE ON THE PROJECT PLANS AND THE GEOTECHNICAL REPORT.

GRADING NOTES

1. ALL WORK IN STREET SHALL BE IN ACCORDANCE WITH THE CITY STANDARDS.
2. ALL CUT AND FILL SLOPES SHALL BE ACCORDING TO OSHA REQUIREMENTS.
3. FILLS SHALL BE COMPACTED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT. THE REPORT IS TITLED "PROPSED SUVSWD TRANSFER STATION" BY KLEINFELDER.
4. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED BY THE INSPECTOR AND GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL.
5. FILLS SHALL BE BENCHED INTO COMPETENT MATERIAL AS PER THE SPECIFICATIONS AND GEOTECHNICAL REPORT.
6. ALL TRENCH BACKFILL SHALL BE TESTED AND CERTIFIED BY THE INSPECTOR.
7. THE CONTRACTOR SHALL COORDINATE INSPECTIONS & TESTING, AND SUBMIT A COMPLETE REPORT AND MAP UPON COMPLETION OF THE ROUGH GRADING. THE REPORT AND MAP SHALL SHOW AREAS WHERE COMPACTION TESTS HAVE BEEN TAKEN, AND COMPACTION RESULTS.
8. DUST SHALL BE CONTROLLED BY WATERING. DO NOT OVER WATER OR SOFTEN THE SUBGRADE OR CAUSE EROSION DUE TO WATERING.
9. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISION MUST BE USED TO PROTECT ADJOINING DRAINAGE AREAS DURING THE CONSTRUCTION OF THE PROJECT. ALL PUBLIC ROADS MUST BE CLEANED DAILY OF ALL DIRT, MUD, AND DEBRIS DEPOSITED AS A RESULT OF THE CONSTRUCTION. THE CLEANING IS TO BE DONE TO THE SATISFACTION OF THE PROJECT MANAGER, OWNER, AND CITY.
11. THE SITE SHALL BE CLEARED OF ALL VEGETATION AND DELETERIOUS MATTER PRIOR TO BEGINNING THE GRADING OPERATION.
12. THE CONTRACTOR SHALL PROVIDE SHORING IN ACCORDANCE WITH OSHA REQUIREMENTS FOR TRENCH WALLS.
13. AGGREGATE BASE AND SUBGRADE SHALL BE COMPACTED AND PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT FOR THIS PROJECT.
14. AS PART OF THE CONSTRUCTION DOCUMENTS, THE OWNER HAS PROVIDED THE CONTRACTOR WITH A TOPOGRAPHIC SURVEY PERFORMED BY MANUAL OR AERIAL MEANS. SAID SURVEY WAS PREPARED FOR PROJECT DESIGN PURPOSES AND IS PROVIDED TO THE CONTRACTOR AS A COURTESY. IT IS EXPRESSLY UNDERSTOOD THAT SUCH SURVEY MAY NOT ACCURATELY REFLECT EXISTING TOPOGRAPHICAL CONDITIONS.
15. EROSION CONTROL; PROTECT ALL INLET BOXES, CATCH BASINS, STORM DRAIN MANHOLES, DRAINAGE DITCHES, AND WATERWAYS WITH APPROVED SWPPP PROTECTION TO STRAIN THE STORM WATER DURING CONSTRUCTION. PROTECT ALSO FROM ILLICIT WATER DISCHARGES. PROTECT SURROUNDING PROPERTIES AND STREETS FROM SITE RUNOFF WITH SANDBAGS, EARTH BERMS, AND SILT FENCES. REFER TO THE SWPPP FOR ADDITIONAL INFORMATION.
16. THE CONTRACTOR SHALL COMPLETE A SWPPP BASED ON THE LATEST UTAH DEQ APPROVED TEMPLATE AND FILE FOR A NOTICE OF INTENT (NOI), PAY THE FEE FOR COVERAGE. AFTER CONSTRUCTION IS SUBSTANTIALLY COMPLETE, THE SITE HAS BEEN STABILIZED, AND POST CONSTRUCTION BMPS HAVE BEEN INSTALLED, THE CONTRACTOR SHALL FILE A NOTICE OF TERMINATION WITH UTAH DEQ PRIOR TO RECEIVING FINAL PAYMENT FOR THIS PROJECT.

PROJECT CONTACTS

1. COORDINATE WITH SUVSWD DISTRICT
   ENGINEER NICK PATTERSON 1-801-592-4479

2. COORDINATE ANY UTILITY WORK WITH UTILITY COMPANY(S)

   DOMINION ENERGY 1-800-323-5517
   DOMINION ENERGY EMERGENCY 1-800-767-1689

   CENTURY LINK 1-877-803-8414

   ROCKY MOUNTAIN POWER 1-888-221-7070
   ROCKY MOUNTAIN POWER EMERGENCY 1-877-505-5088

   BLUE STAKES OF UTAH 1-800-662-4111

SURVEY DATUM

HORIZONTAL DATUM
UTAH STATE PLANE COORDINATES
NAD83 DATUM, UTAH CENTRAL ZONE, US FOOT

VERTICAL DATUM
NAVD88 DATUM

BASE POINT AND BENCHMARK
ELEV=4504.02
N: 7226634.24 E: 1597060.89

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JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc
270 EAST 500 SOUTH - STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4700 FAX: 801.364.4052

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

DATE	REVISION
	AUG. 2021

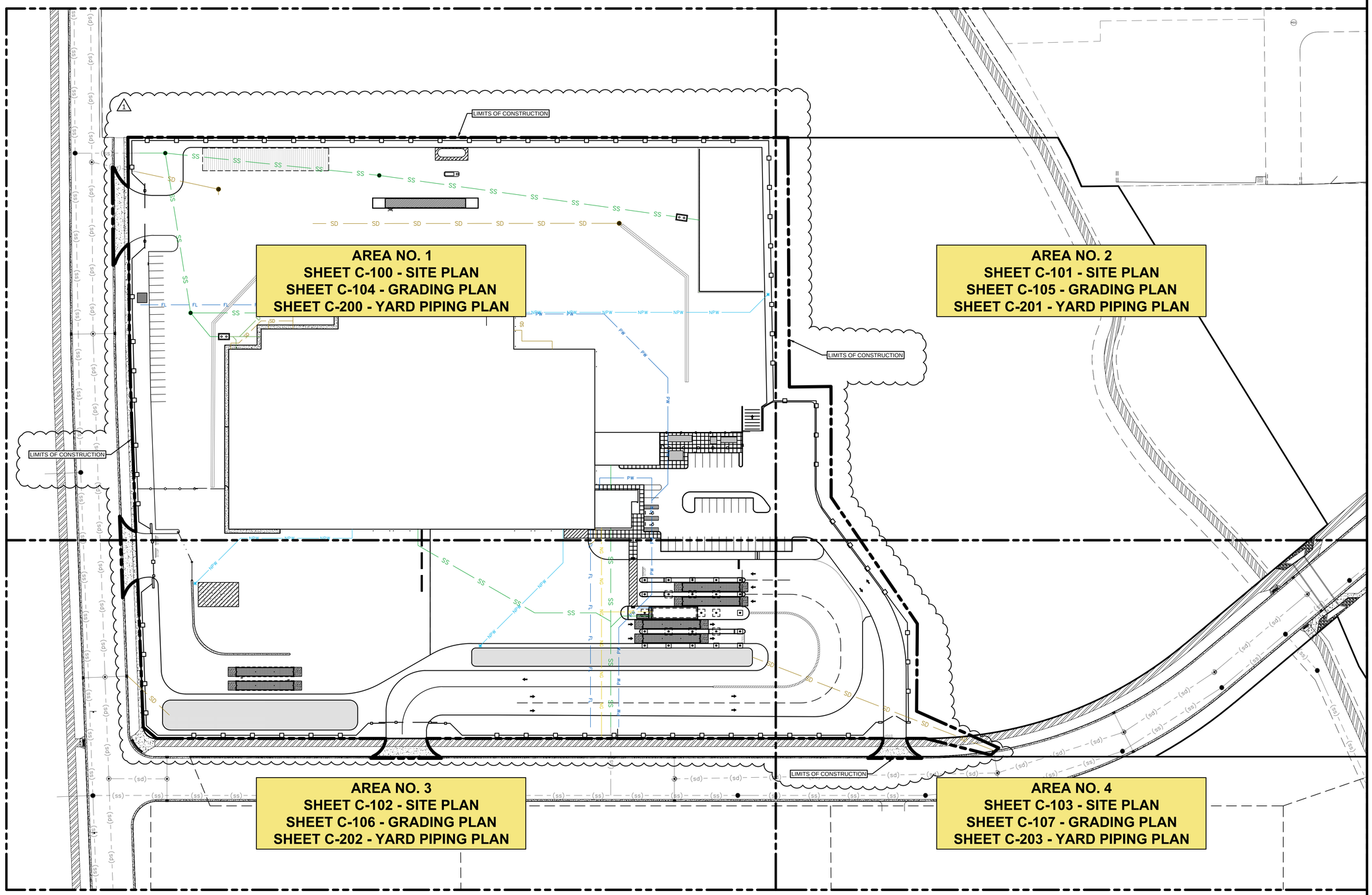
LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

VIEW AND PRINT THIS SHEET IN COLOR

CIVIL GENERAL NOTES

C-002

XX OF XX



NOTE:
- LIMITS OF CONSTRUCTION SHALL BE AT THE BACK OF WALK ALONG 600 WEST AND 3450 NORTH.
- LIMITS OF CONSTRUCTION SHALL INCLUDE THE DRIVE APPROACHES INTO THE FACILITY FROM BOTH 600 WEST AND 3450 NORTH.
- LIMITS OF CONSTRUCTION SHALL BE AT THE NORTH PROPERTY LINE.
- LIMITS OF CONSTRUCTION SHALL BE AT THE TOE OF BERM BEHIND THE WALL ALONG THE EASTERN SIDE OF THE PROPERTY

1

N

GRAPHIC SCALE
0' 25' 50' 100' 150'
Scale: 1"=50'

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

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370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
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SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3450 NORTH 500 WEST
SPANISH FORK, UT 84660
FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS		
1	DATE	REVISION
1	JAN-22	AUG. 2021 CONST. LIMITS

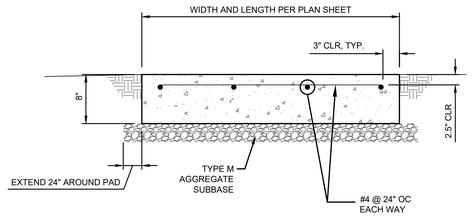
LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

VIEW AND PRINT THIS SHEET IN COLOR

CIVIL DESIGN - KEY PLAN

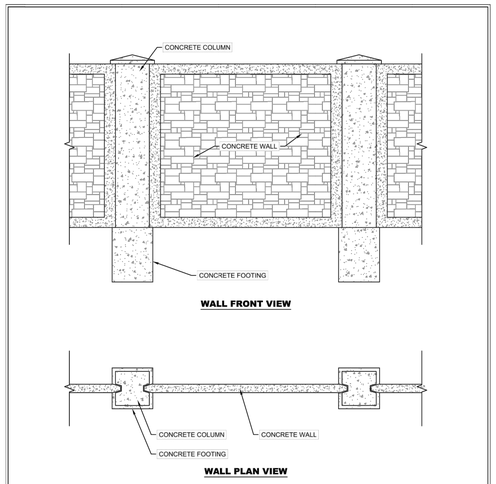
C-003
XX OF XX

P:\2019\05-19-0115 South Utah Valley Solid Waste District\CAD\Onsite\CAD\SHEETS\Civil\05-19-0115_XX C-003.dwg - ---- - 1/14/2022 7:38 AM

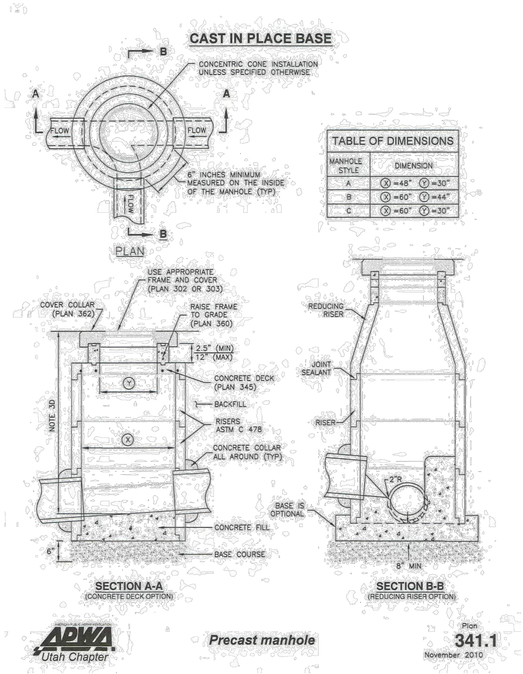


NOTE:
1. CONTRACTOR SHALL USE 4500 PSI CONCRETE.
2. TOP OF CONCRETE TO BE AS SHOWN ON PLANS.

CONCRETE PAD
SCALE: N.T.S. SPEC # 03 30 00 — 4



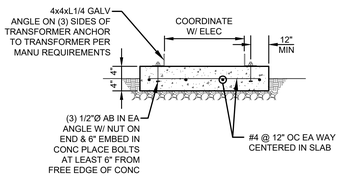
6' CONCRETE WALL, PER SPANISH FORK CITY STANDARDS
SCALE: N.T.S. — 2



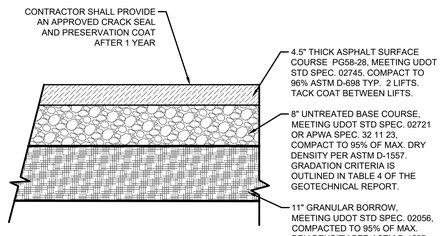
Precast manhole

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 pipe under 12" diameter.
      2) Diameter is 5-feet: For pipe 12" and larger, or when 3 or more drain pipes intersect the manhole.
   C. Wall thickness:
      1) Precast reinforced concrete walls 4 3/4" minimum.
      2) Cast-in-place concrete to be 8 inches thick minimum.
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 C478.
   E. Joint Sealant: Rubber based, compressible.
   F. Grout: 2 parts sand to 1 part cement mortar, ASTM C1329.
   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 sewer rock in a geotextile wrap to stabilize an unstable foundation.
   B. Base Course Placement: APWA Section 32 11 23. 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.
   C. Invert cover. During construction, place invert covers over the top of pipe in manholes that currently convey sewerage. See Plan 412.
   D. Concrete Deck or Reducing Riser: When depth of manhole from pipe invert to finish grade exceeds 7 feet, use an ASTM C478 reducing riser.
   E. Pipe Connections: Grout around all pipe openings.
   F. 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.
   G. Joints: Place flexible sealant in all riser joints. Finish with grout.
   H. 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.
   I. Finish: Provide smooth and neat finishes on interior of cones, shafts, and rings. Imperfect moldings or honeycombs will not be accepted.
   J. 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.

APWA PRECAST STORM DRAIN MANHOLE
SCALE: N.T.S. — 3

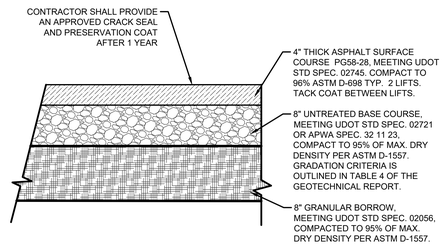


CONCRETE TRANSFORMER PAD
SCALE: N.T.S. SPEC # 03 30 00 — 4



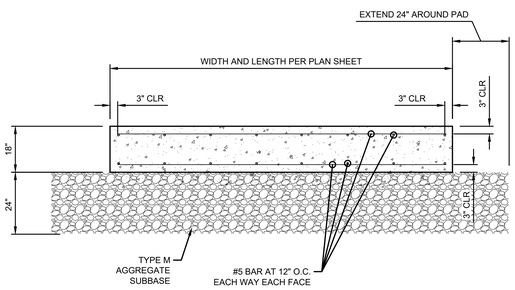
- PER GEOTECH REPORT

SELF-HAUL VEHICLE ASPHALT SECTION
SCALE: N.T.S. — 5



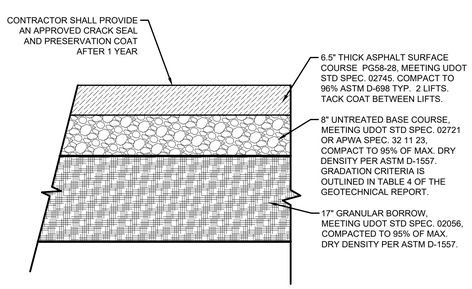
- PER GEOTECH REPORT

LIGHT VEHICLE ASPHALT SECTION
SCALE: N.T.S. — 6



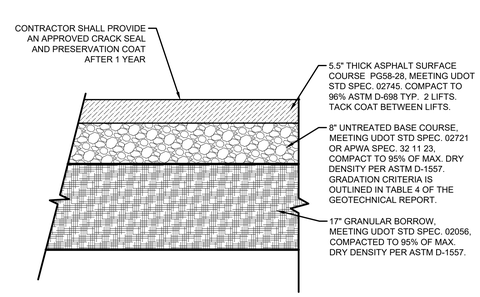
NOTE:
1. MOUNT GENSET TO PAD ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
2. CONTRACTOR SHALL USE 4500 PSI CONCRETE.
3. TOP OF CONCRETE TO BE 4" ABOVE FG.

CONCRETE GENERATOR PAD
SCALE: N.T.S. — 7



- PER GEOTECH REPORT

HEAVY VEHICLE ASPHALT SECTION
SCALE: N.T.S. — 8



- PER GEOTECH REPORT

COMMERCIAL VEHICLE ACCESS SECTION
SCALE: N.T.S. — 9

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc
270 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4700 FAX: 801.364.4002

SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3450 NORTH 500 WEST
SPANISH FORK, UT 84660
FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

DATE	REVISION
	AUG. 2021

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

VIEW AND PRINT THIS SHEET IN COLOR

CIVIL DETAILS

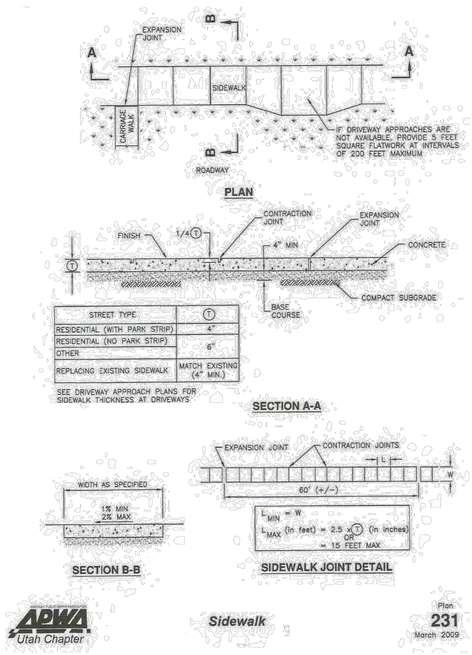
C-004
XX OF XX

Sidewalk

1. **GENERAL**
   A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
   B. Additional requirements are specified in APWA Section 32 16 13.

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. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
   C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
   D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. **EXECUTION**
   A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Concrete Placement: APWA Section 03 30 10.
      1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
      2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
      3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.



APWA Utah Chapter — *Sidewalk* — Plan 231 March 2009

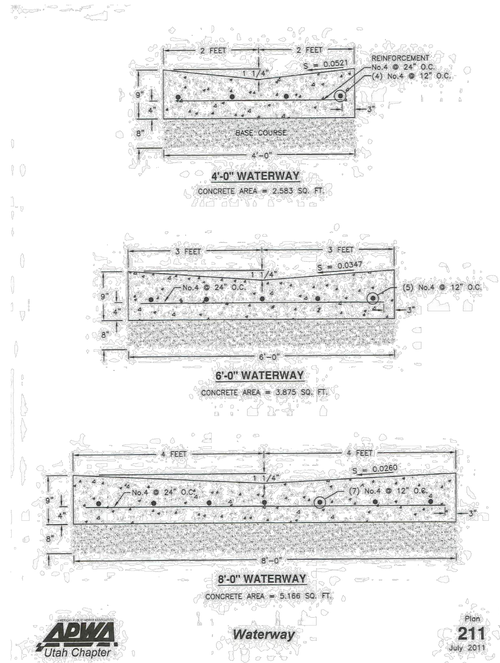
CONCRETE SIDEWALK APWA
SCALE: N.T.S. 1

Waterway

1. **GENERAL**
   A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
   B. Unless indicated otherwise, width of waterway as follows.
      1) 4 feet for a residential street.
      2) 6 feet for a non-residential street.
      3) If wider than 6 feet, offset the flow line in the waterway to match (line up with) the curb and gutter flow line. Adjust cross slopes to match existing slopes.
   C. Additional requirements are specified in APWA Section 32 16 13.

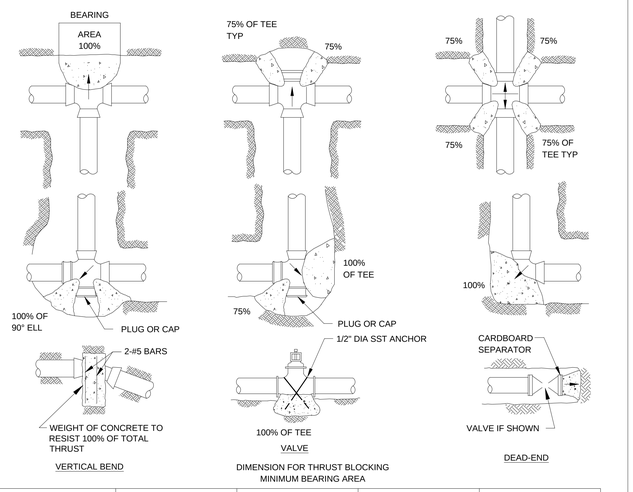
2. **PRODUCTS**
   A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
   B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
   C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
   D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
   E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. **EXECUTION**
   A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent (s=0.005) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Concrete Placement: APWA Section 03 30 10.
      1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Expansion joints are not required in concrete placement using slip-form construction.
      2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
      3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



APWA Utah Chapter — *Waterway* — Plan 211 July 2011

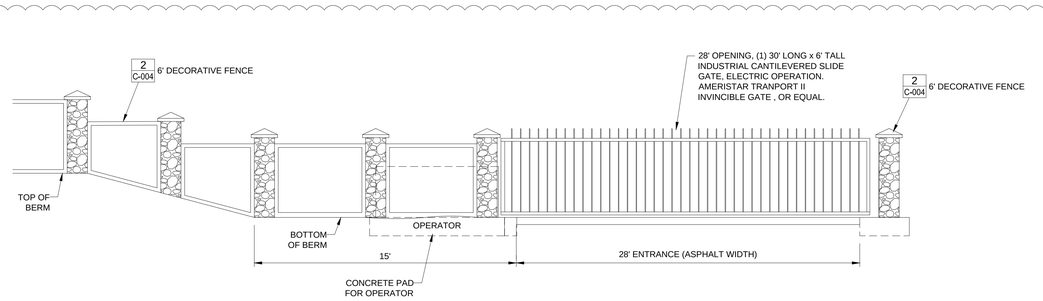
4' WATERWAY APWA
SCALE: N.T.S. 2

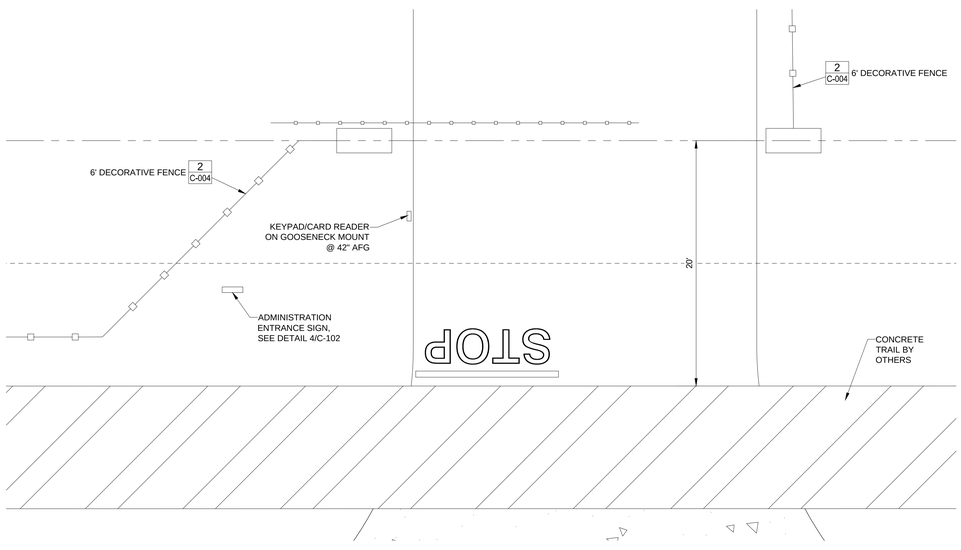


FITTING SIZE	DEAD END OR TEE	90° ELBOW	45° ELBOW	22 1/2° ELBOW
4"	1.0 SF	1.3 SF	.74 SF	0.4 SF
6"	2.1	2.7	1.5	1.1
8"	3.8	4.7	2.5	1.3
10"	6.0	6.9	3.8	1.9
12"	8.5	9.8	5.4	2.7
14"	11.6	13.9	8.7	4.2
16"	15.1	18.1	11.3	5.4
18"	19.1	22.9	19.3	6.9
24"	33.1	39.2	24.8	11.4

NOTES:
1. TABLE BASED ON 100 psi MAINLINE PRESSURE W/50% SURGE ALLOWABLE SOIL BEARING PRESSURE = 2000 psf.
2. FOR OTHER CONDITIONS:
   A = (π D 2/4x P x SIN Δ/2) /2000
   WHERE A = MINIMUM BEARING AREA WHERE
   D = PIPE OD (INCHES)
   P = LINE PRESSURE WITH SURGE (PSI)
   Δ= LINE DEFLECTION
3. f'c = 2000 psi.
4. FIGURE 100% AT THRUST BLOCK INCLUDES PERCENT OF TOTAL THRUST TO BE APPLIED FOR BEARING AREA.
5. ARROWS INDICATE THRUST DIRECTION.
6. "MEGA-LUG" JOINTS SHALL NOT BE USED FOR ALTERNATE RESTRAINTS ON PVC PIPE.
7. POLYWRAP ALL VALVES AND FITTINGS.
8. PRIOR TO BACKFILLING AROUND THRUST BLOCK SECURE INSPECTION OF INSTALLATION BY ENGINEER.
9. INSTALL AND COMPACT ALL BACKFILL MATERIAL PER SPECIFICEATIONS.
10. DO NOT COVER PIPE JOINTS WITH CONCRETE, LEAVE COMPLETELY ACCESSIBLE.
11. APPLY POLY-FM GREASE TO ALL BURIES METAL SURFACES. WRAP WITH 8 MIL THICK POLYETHYLENE SHEET AND TAPE WRAP.
12. SPECIAL CONSTRUCTION REQUIREMENTS:
    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 DETAIL.
    C. REINFORCING STELL BARS TO BE EPOXY COATED AT LEAST 15 MIL THICK. MINIMUM STRESS YIELD STRENGTH OF TIE DOWN BARS IS 70,000 PSI.
    D. LOCKING RESTRAINT DEVICES MAY BE USED IN CONJUCTION WITH CONCRETE THRUST BLOCKING (AT OPTION OF ENGINEER).

THRUST BLOCK
SCALE: N.T.S. SPEC # 03 20 00 3





ADMIN ENTRANCE GATE SECTION
SCALE: 1" = 5' 4

1

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4805 FAX: 801.364.4602

SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3450 NORTH 500 WEST
SPANISH FORK, UT 84660
FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS		
△	DATE	REVISION
1	JAN-22	AUG. 2021 ADDENDUM 2

LICENSED PROFESSIONAL ENGINEER — NO. 10288921-2202 — NICHOLAS A. PATTERSON — STATE OF UTAH — MECHANICAL

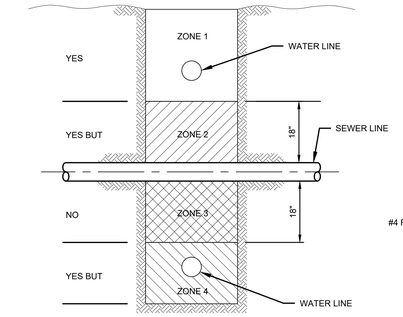
VIEW AND PRINT THIS SHEET IN COLOR

CIVIL DETAILS

C-005
XX OF XX

100% DESIGN

P:\2019\05-19-0115 South Utah Valley Solid Waste District\CAD\Onsite\CAD\SHEETS\Civil\05-19-0115_XX C-005.dwg ---- 1/14/2022 12:28 PM



VERTICAL SEPARATION REQUIREMENTS

ZONE 1 — THE WATER LINE SHOULD BE PLACED IN THIS ZONE IF IT IS PRACTICAL. WATER AND NON POTABLE WATER (NPWL) MUST BE SEPARATED BY AT LEAST 18 INCHES.

ONE FULL UNCUT LENGTH OF WATER PIPE MUST BE CENTERED OVER THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE NPWL.

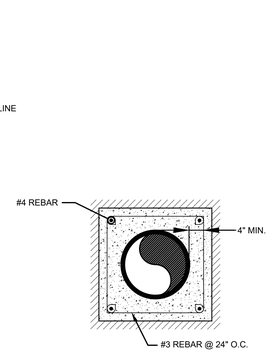
ZONE 2 — THE WATER LINE MAY BE PLACED IN THESE ZONES WITH ONE FULL UNCUT LENGTH OF WATER PIPE CENTERED OVER THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE NPWL AND EITHER:

A. NPWL MAIN MUST BE CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS FOR A HORIZONTAL DISTANCE OF 10 FEET ON BOTH SIDES OF THE CROSSING

B. EITHER THE NPWL OR THE WATER MAIN SLEEVED WITH POTABLE WATER CLASS PIPE FOR A DISTANCE OF 10 FEET HORIZONTALLY ON BOTH SIDES OF THE CROSSING.

ZONE 3 — THE WATER LINE MAY NOT BE PLACED IN THIS ZONE.

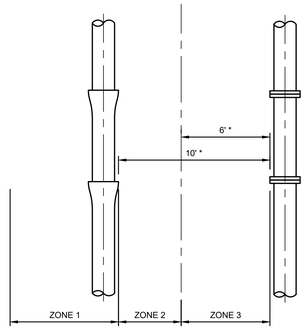
ZONE 4 — SAME REQUIREMENTS AS ZONE 1 EXCEPT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.



NOTE:

RETAIN AND PROTECT SEWER LINE AND MAINTAIN EXISTING GRADE.

PIPE ENCASEMENT



HORIZONTAL SEPARATION REQUIREMENTS

NOTE:
1. ZONE 1: NO SPECIAL REQUIREMENTS

ZONE 2: WATER AND NPWL SEPARATED BY AT LEAST 6 FEET AT OUTSIDE WALLS AND:

A. WATER AT LEAST 18 INCHES HIGHER IN ELEVATION THAN THE NPWL.

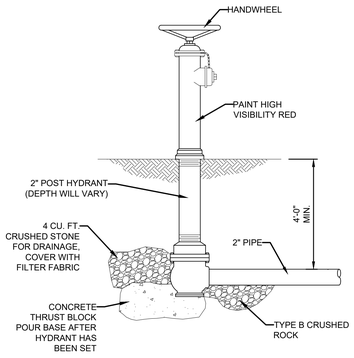
B. NPWL CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS. SITE SPECIFIC REQUIREMENTS TO BE APPROVE BY DEQ.

ZONE 3: NOT ALLOWED

2. SEWER FORCE MAINS MUST HAVE MIN 10' SEPARATION. ZONE 2 PLACEMENTS ARE NOT ALLOWED.

WATER LINE VERTICAL AND HORIZONTAL REQUIREMENTS 1

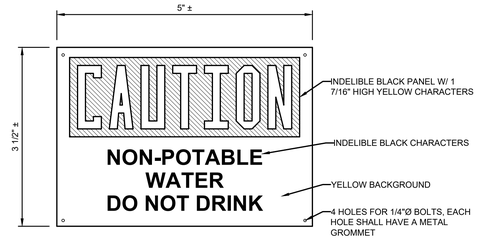
SCALE: N.T.S.



NOTES:
- YARD HYDRANT SHALL INCLUDE NON-POTABLE WATER SIGN

YARD HYDRANT 2

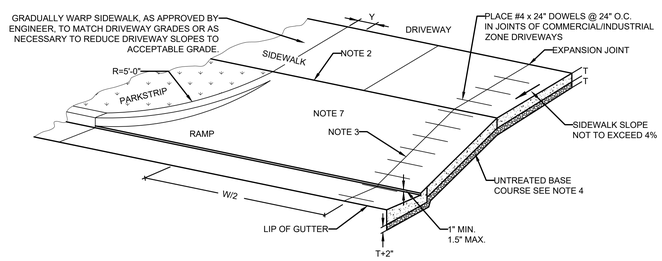
SCALE: N.T.S.



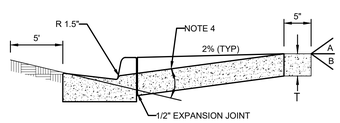
NOTES:
1. MATERIAL TO BE SEMI-RIGID BUTYRATE OR APPROVED EQUAL, AS MANUFACTURED BY SETON NAME PLATE CORPORATION NEW HAVEN, CONN, O6505, W.H. BRADY CO, MILWAUKEE, WIS. 53201 OR EQUAL.
2. MOUNT ON WALL NEXT TO UTILITY WATER HOSE BIBS.

NON-POTABLE WATER SIGN 3

SCALE: N.T.S. SPEC # 10 43 10



PLAN



TYPICAL SECTION

NOTES:
1. EDGE CONCRETE WITH 1/2" RAD. EDGING TOOL.
2. PLACE 1/2" EXPANSION JOINT BETWEEN SIDEWALK APRON AND CURB, AND IN THE DRIVEWAY CENTER-LINE IF "W" IS GREATER THAN 15'. FILLER STRIP SHALL BE FULL DEPTH OF CONCRETE PLUS 1", WITH TOP SET FLUSH WITH TOP OF CONCRETE.
3. USE UNTREATED BASE COURSE MATERIAL, COMPACT TO 96% OF THE MAXIMUM DRY DENSITY.
4. DIFFERENCE IN SLOPE OF DRIVEWAY RAMP AND THE SLOPE OF A LINE BETWEEN THE GUTTER AND A POINT ON THE ROADWAY 5' FROM THE FRONT EDGE OF THE GUTTER SHALL NOT EXCEED 12% IN RESIDENTIAL ZONES AND 10% IN COMMERCIAL AND INDUSTRIAL ZONES. REDUCE DRIVEWAY RAMP SLOPE, NOT GUTTER SLOPE, WHERE REQUIRED.
5. ALL CONCRETE SLABS WITH A LENGTH/WIDTH RATIO GREATER THAN A 1.5:1 SHALL HAVE CONTRACTION JOINTS INSTALLED AS REQUIRED TO STAY WITHIN 2:1 RATIO.
6. MATERIALS, CONSTRUCTION, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH PROJECT TECHNICAL SPECIFICATIONS.
7. ALL CONCRETE TO BE CLASS 4000 AS PER PROJECT TECHENICAL SPECIFICATIONS.

DRIVE APPROACH DIMENSIONS	
DIM	ZONE
T	0'-6" SELF-HAUL & LIGHT VEHICLE ENTRANCES 0'-8" COMMERCIAL & HEAVY VEHICLE ENTRANCES
W	11'-0" MAX. RESIDENTIAL ZONES 20'-0" MAX. RESIDENTIAL ZONES 30'-0" MAX. COMMERCIAL & INDUSTRIAL ZONES 50'-0" MAX. COMMERCIAL & INDUSTRIAL ZONES (OR PER PLANS IF DIFFERENT)
Y	0'-6" SELF-HAUL & LIGHT VEHICLE ENTRANCES 2'-0" COMMERCIAL & HEAVY VEHICLE ENTRANCES
A	≤ 6% SELF-HAUL & LIGHT VEHICLE ENTRANCES ≤ 0'-8% COMMERCIAL & HEAVY VEHICLE ENTRANCES
B	≤ 12% SELF-HAUL & LIGHT VEHICLE ENTRANCES ≤ 8% COMMERCIAL & HEAVY VEHICLE ENTRANCES

DRIVEWAY APPROACH 4

SCALE: N.T.S. SPEC # 03 10 00

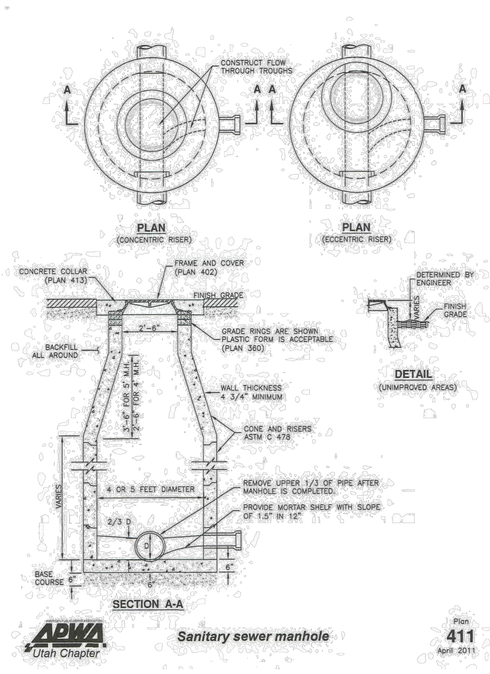
Sanitary sewer manhole

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 C478.
   E. Reinforcement: Deformed, 60 ksi yield grade steel, ASTM A615.
   F. Grout: 2 parts sand to 1 part cement mortar, ASTM C1329.
   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 8-inches 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.
   I. 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.

411



APWA Utah Chapter

Sanitary sewer manhole

Plan 411 April 2011

SANITARY SEWER MANHOLE APWA 411 5

SCALE: N.T.S. SPEC # 03 70 00

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc
270 EAST 500 SOUTH - STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4700 FAX: 801.364.4092

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

DATE	REVISION
	AUG. 2021

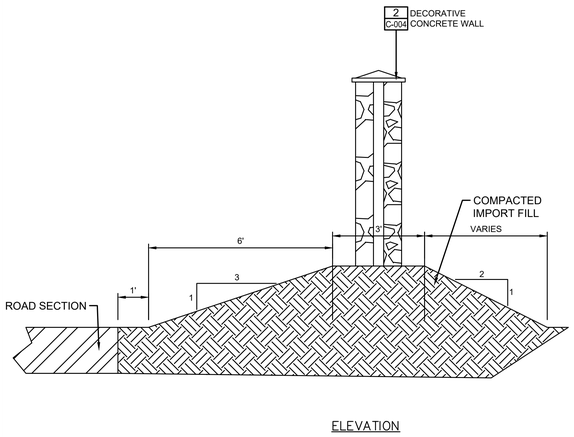
LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

VIEW AND PRINT THIS SHEET IN COLOR

CIVIL DETAILS

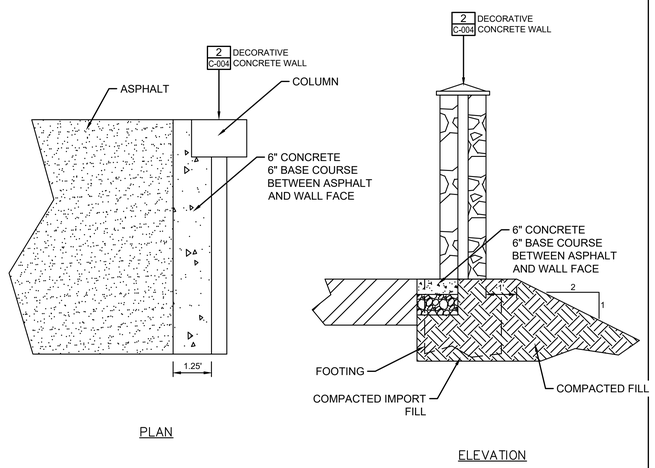
C-006

XX OF XX



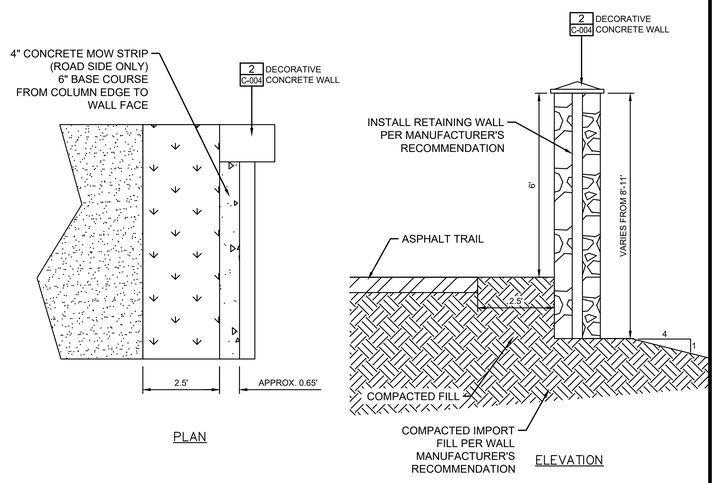
ELEVATION

BERM AND WALL CROSS SECTION 1
SCALE: N.T.S.



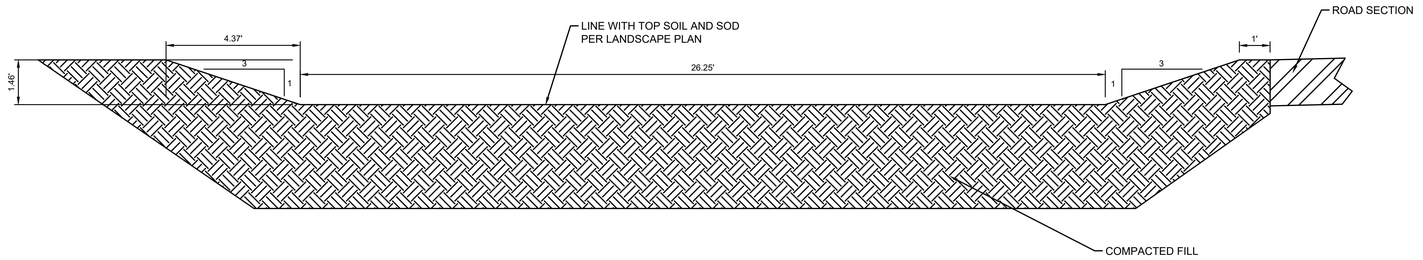
PLAN ELEVATION

WALL CROSS SECTION 2
SCALE: N.T.S.

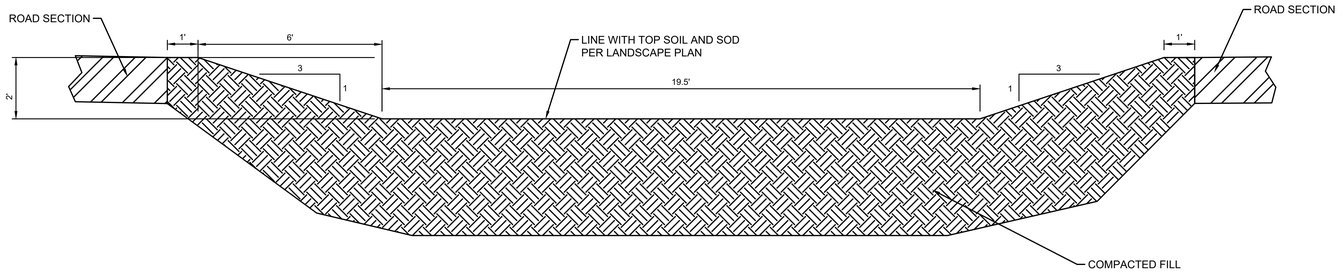


PLAN ELEVATION

RETAINING SOUND WALL CROSS SECTION 3
SCALE: N.T.S.



SOUTHWEST POND CROSS SECTION 4
SCALE: N.T.S.



SOUTHEAST POND CROSS SECTION 5
SCALE: N.T.S.

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc
270 EAST 500 SOUTH. STE 200. SALT LAKE CITY, UT 84111
PH: 801.364.4735 FAX: 801.364.4052

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FA PROJECT #:05-19-0115

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PROJECT STATUS

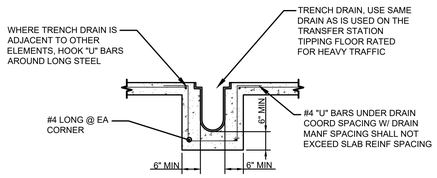
DATE	REVISION
	AUG. 2021

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATERSON
STATE OF UTAH

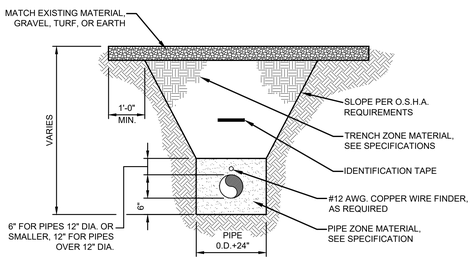
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CIVIL SECTIONS

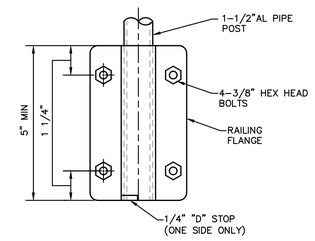
C-007
XX OF XX



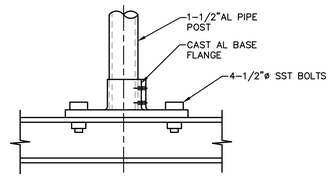
TRENCH DRAIN
SCALE: N.T.S. SPEC # 03 10 00 1



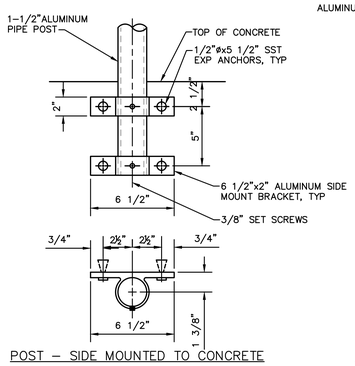
TYPICAL PIPE TRENCH TYPE 1
SCALE: N.T.S. 2



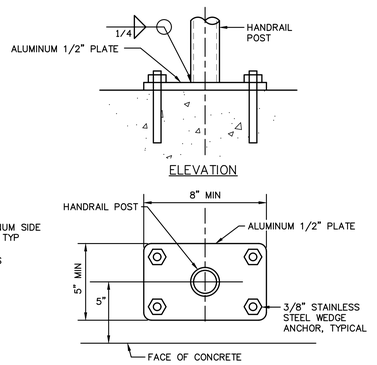
POST – SIDE MOUNTED TO METAL



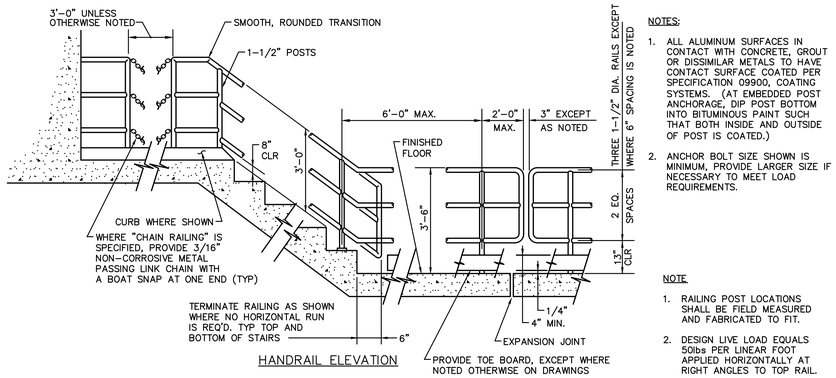
POST – SURFACE MOUNTED TO METAL



POST – SIDE MOUNTED TO CONCRETE



POST – SURFACE MOUNTED TO CONCRETE



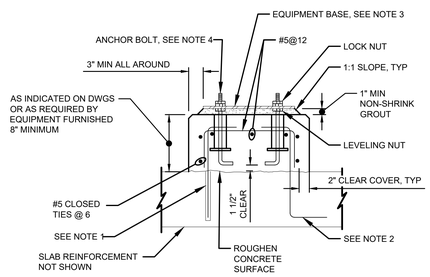
NOTES:

1. ALL ALUMINUM SURFACES IN CONTACT WITH CONCRETE, GROUT OR DISSIMILAR METALS TO HAVE CONTACT SURFACE COATED PER SPECIFICATION 09900, COATING SYSTEMS. (AT EMBEDDED POST ANCHORAGE, DIP POST BOTTOM INTO BITUMINOUS PAINT SUCH THAT BOTH INSIDE AND OUTSIDE OF POST IS COATED.)
2. ANCHOR BOLT SIZE SHOWN IS MINIMUM, PROVIDE LARGER SIZE IF NECESSARY TO MEET LOAD REQUIREMENTS.

NOTE

1. RAILING POST LOCATIONS SHALL BE FIELD MEASURED AND FABRICATED TO FIT.
2. DESIGN LIVE LOAD EQUALS 50lbs PER LINEAR FOOT APPLIED HORIZONTALLY AT RIGHT ANGLES TO TOP RAIL.

HANDRAIL
N.T.S. 3

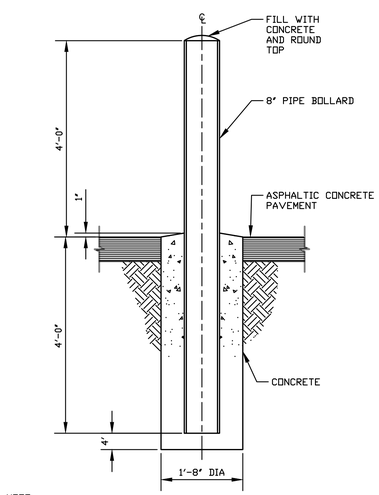


NOTES:

1. FOR NEW EQUIPMENT BASES ON EXISTING SLABS, DRILL INTO EXISTING SLAB TO DEVELOPMENT DEPTH AT 12" CENTERS AROUND PERIMETER OF EQUIPMENT BASE AND SET #5 HOOKED DOWELS IN EPOXY GROUT.
2. FOR EQUIPMENT BASES ON NEW SLABS, PROVIDE #5 DOWELS HAVING TWO HOOKED ENDS AT 12" CENTERS AROUND PERIMETER OF EQUIPMENT BASE.
3. EQUIPMENT BASE DIMENSIONS SHALL BE AS INDICATED ON THE DRAWINGS OR AS DETERMINED BY THE EQUIPMENT MANUFACTURER AND APPROVED BY THE ENGINEER.
4. ANCHOR BOLTS AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. BOLTS SHALL BE HELD IN POSITION WITH A TEMPLATE WHILE EQUIPMENT BASE IS BEING CAST.
5. PIPE SLEEVES SHALL BE USED TO PROVIDE THE ANCHOR BOLT A MINIMUM MOVEMENT OF 1/2" IN ALL DIRECTIONS. MINIMUM SLEEVE LENGTH SHALL BE 8 TIMES THE BOLT DIAMETER. SLEEVES SHALL BE FILLED WITH NON-SHRINK GROUT. PIPE SLEEVES SHALL HAVE A MINIMUM INTERNAL DIAMETER 1" GREATER THAN BOLT DIAMETER AND A MAXIMUM INTERNAL DIAMETER OF 3" GREATER THAN BOLT DIAMETER.
6. EQUIPMENT BASES SHALL BE INSTALLED LEVEL. TOLERANCE IS 1/16"

EQUIPMENT MOUNTING BASE TYPE 1
SCALE: N.T.S. 4

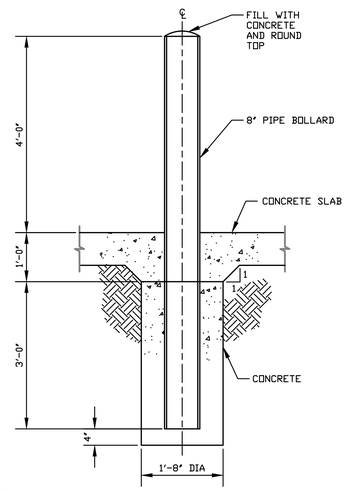
DETAIL NOT USED
SCALE: N.T.S. 5



NOTE:

1. REINFORCING FOR CONCRETE SLAB NOT SHOWN.
2. UNLESS OTHERWISE NOTED BOLLARD SHALL BE 18" FROM STRUCTURE TO CENTERLINE OF BOLLARD AND FLUSH WITH DOOR OPENING.

BOLLARD
N.T.S. 6



NOTE:

1. REINFORCING FOR CONCRETE SLAB NOT SHOWN.
2. UNLESS OTHERWISE NOTED BOLLARD SHALL BE 18" FROM STRUCTURE TO CENTERLINE OF BOLLARD AND FLUSH WITH DOOR OPENING.

BOLLARD
N.T.S. 7

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc
270 EAST 500 SOUTH - STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4700 FAX: 801.364.4002

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

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PROJECT STATUS

DATE	REVISION
	AUG. 2021

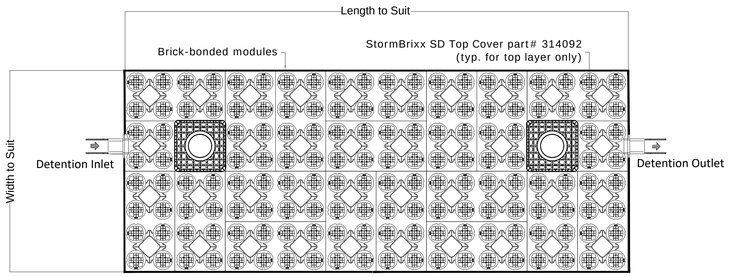
LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

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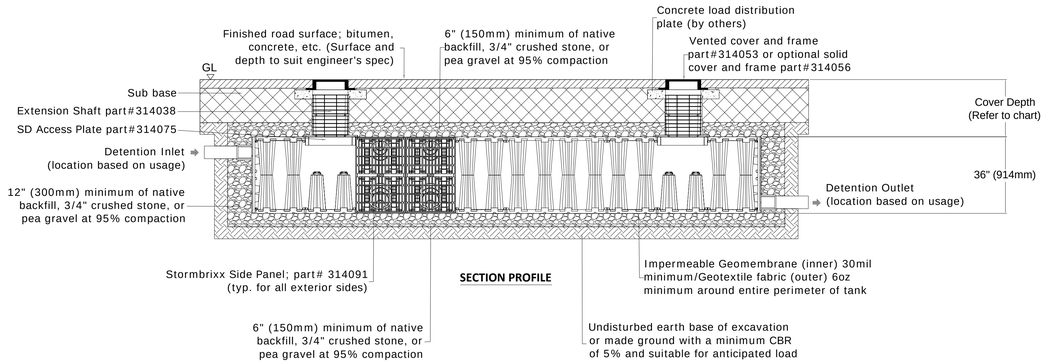
CIVIL DETAILS

C-008

XX OF XX



PLAN



SECTION PROFILE

Installation depths of ACO StormBrixx SD

Installation Location	Minimum cover depth(4) ft (m)
Non-trafficked areas i.e. landscaping (2)	1.65 (0.5)
Parking lots, vehicles up to 5,512lbs gross mass (1)	1.8 (0.55)
Parking lots, occasional vehicles greater than 5,512lbs gross mass (3)	2.0 (0.6)
Occasional heavy truck traffic up to HS-20 loading	Please consult with ACO
Maximum cover depth of ACO StormBrixx SD	6.5 (2)
Maximum depth to invert of ACO StormBrixx SD one layer system	9.56 (2.9)

Notes

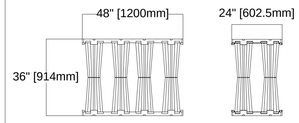
(1) Assumes 27 degree load distribution through fill material and overlaying surface asphalt or block paving

(2) Minimum cover depth to avoid accidental damage from gardening/landscaping work

(3) Occasional sanitation trucks or similar vehicles (typically one per week)

(4) Please check minimum frost cover depths and water table heights for geographical location

ACO StormBrixx SD Module
48"x24"x36" [1200x602.5x914mm (H)]
22.54cuft net volume per completed module
Brick or Cross Bonded (where applicable)
part# 314090



*All systems must be designed and installed to meet or exceed ACO StormBrixx minimum requirements. Although ACO StormBrixx offers support during the design, review, and construction phases of the module system, it is the ultimate responsibility of the Engineer of Record to design the system in full compliance with all applicable engineering practices, laws, and regulations.

D-SD-1L-DVT

DATE:07/18/2019

ISSUE: D

DETENTION - STORMBRIXX SD ONE LAYER WITH ACCESS PLATES

INSTALLATION DRAWING - ACO STORMBRIXX SD

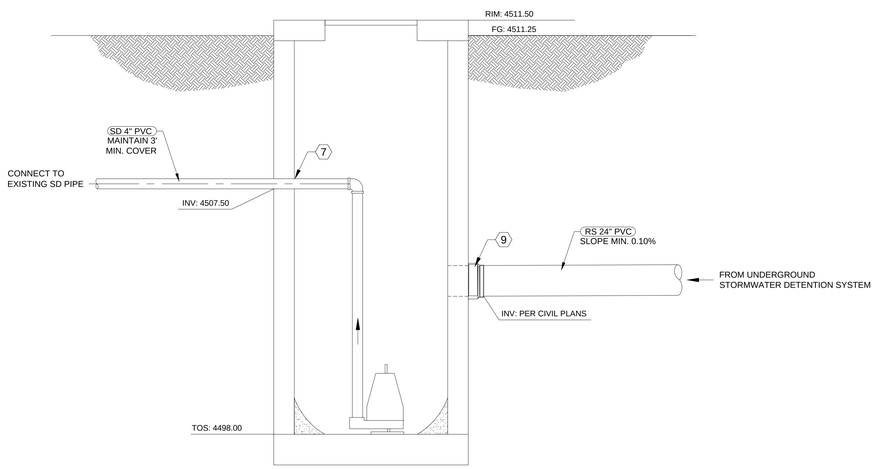
ACO, Inc.

825 W. Beechcraft St	9470 Pinecone Drive	4211 Pleasant Rd.
Casa Grande, AZ 85122	Mentor, OH 44060	Fort Mill, SC 29708
Tel: 520-421-9988	Tel: 440-639-7230	Tel: 440-639-7230
Fax: 520-421-9899	Fax: 440-639-7235	Fax: 803-802-1063

STORMBRIXX DETENTION DETAIL

SCALE: N.T.S.

1



STORM DRAIN PUMP STATION

SCALE: N.T.S.

2

CONSTRUCTION NOTES : X

1. PREMANUFACTURED PUMP STATION. SEE SPECIFICATION 44 11 07.
2. COORDINATE WITH MANUFACTURER FOR CORRECT LOCATION, ELEVATION, CLEARANCES, & INSTALLATION OF EQUIPMENT, U.N.O.
3. MECHANICAL COUPLING OR PIPE SLEEVE, CONTRACTOR SHALL SIZE ACCORDINGLY.
4. CONTRACTOR SHALL COORDINATE WITH PUMP MANUFACTURER FOR INSTALLATION AND ANCHORING OF PUMP.
5. CONTRACTOR SHALL COORDINATE REDUCER SIZES WITH EQUIPMENT MANUFACTURERS, AS NEEDED.
6. CONTRACTOR SHALL SUPPORT PIPES AS NECESSARY.
7. GROUT AND SEAL PIPE PENETRATIONS.
8. CONTRACTOR SHALL ADD GROUTED HOPPER WALLS AT 2:1 TO REMOVE CORNERS.
9. RUBBER BOOTED CONNECTOR, USE NPC KOR-N-SEAL OR EQUIVALENT.

1

NOTES:

1. SEE 1/ C-005 FOR SIDEWALKS.
2. PLANTER MAY BE GRASS OR XERISCAPE AS APPROVED BY THE CITY ENGINEER. SEE STANDARD DRAWINGS FOR LID PLANTERS.
3. SUB-BASE AS SPECIFIED IN THE CONSTRUCTION STANDARD AND SOILS REPORT. CONDUCTED APRIL 13, 2021 BY KLEINFELDER AND SUPPLEMENTAL MEMORANDUM BY KLEINFELDER DATED MAY 18, 2021.
4. ALL PLANTER AREAS BETWEEN THE CURB AND SIDEWALK SHALL BE LANDSCAPED WITH PREVIOUS MATERIALS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER OR DESIGNEE.

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4755 FAX: 801.364.4602

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

	DATE	REVISION
1	JAN-22	AUG. 2021 ADDENDUM 2

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

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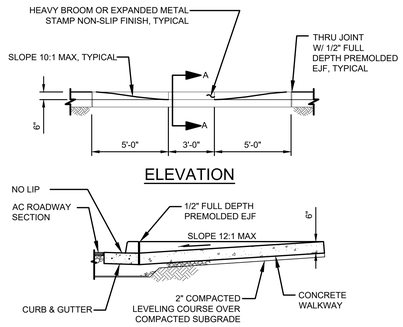
CIVIL DETAILS

C-009

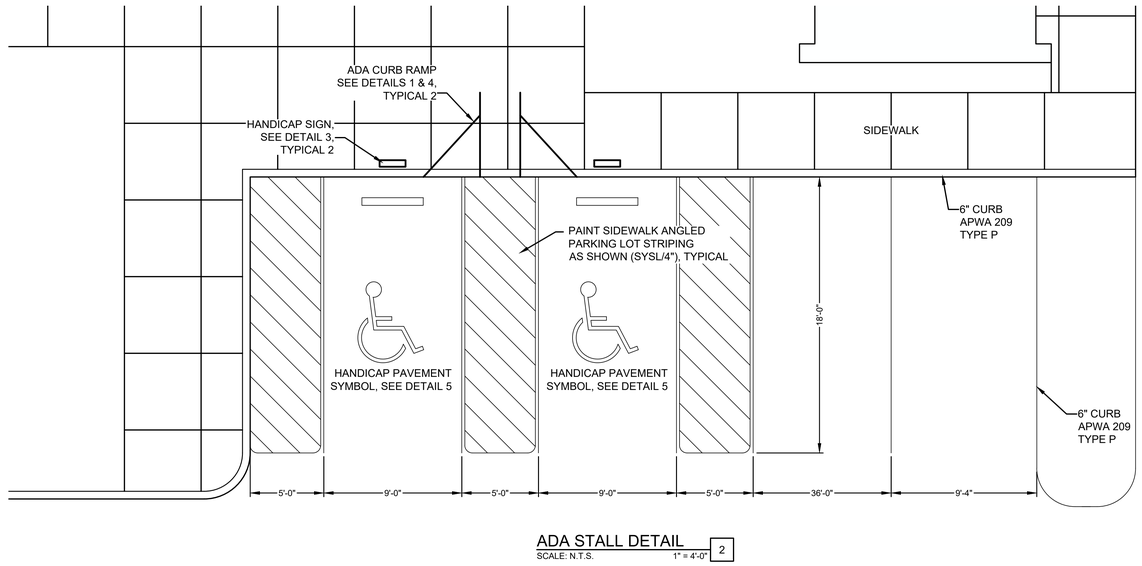
XX OF XX

100% DESIGN

P:\2019\05-19-0115 South Utah Valley Solid Waste District\CAD\Onsite\CAD\SHEETS\Civil\05-19-0115_XX C-009.dwg - ---- - 1/14/2022 3:12 PM



HANDICAP ACCESSIBLE RAMP
SCALE: N.T.S. — 1



ADA STALL DETAIL
SCALE: N.T.S. 1" = 4'-0" — 2

NOTE:
1. POSTS SHALL BE 8' LONG (MIN) HOT-ROLLED HIGH TENSILE RAIL STEEL, PERFORATED WITH 3/8" HOLES AT 1" CENTERS, FINISHED WITH GREEN BAKED ENAMEL.

HANDICAP SIGN
SCALE: N.T.S. — 3

Notes:
All ramp areas to have an ABSOLUTE MAXIMUM running slope of 1:12 (8.33%). Ramps must be MINIMUM 4'-feet in width.

Landing shall be MINIMUM 4'-feet x 4'-feet, and have slope no greater than 1:50 (2.00%). Contractor shall take special care to insure all ramps and landings drain to street.

Transitions at the asphalt and gutter shall be FLUSH, with no bumps or dips. The counter slope to the gutter line leading to the street shall have a MAXIMUM slope of 1:20 (5.00%). This counter slope shall have a minimum length of 3-feet (1' from ramp line and 2' more in the asphalt street).

ADA CURB RAMP
SCALE: N.T.S. — 4

HANDICAP PAVEMENT SYMBOL
SCALE: N.T.S. — 5

CHAIN LINK FENCE
SCALE: N.T.S. — 7

CHAIN LINK PEDESTRIAN GATE
SCALE: N.T.S. — 8

CHAIN LINK ROLLING GATE
SCALE: N.T.S. — 9

100% DESIGN

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577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

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270 EAST 500 SOUTH · STE 200 · SALT LAKE CITY · UT 84111
PH: 801.364.4700 FAX: 801.364.4052

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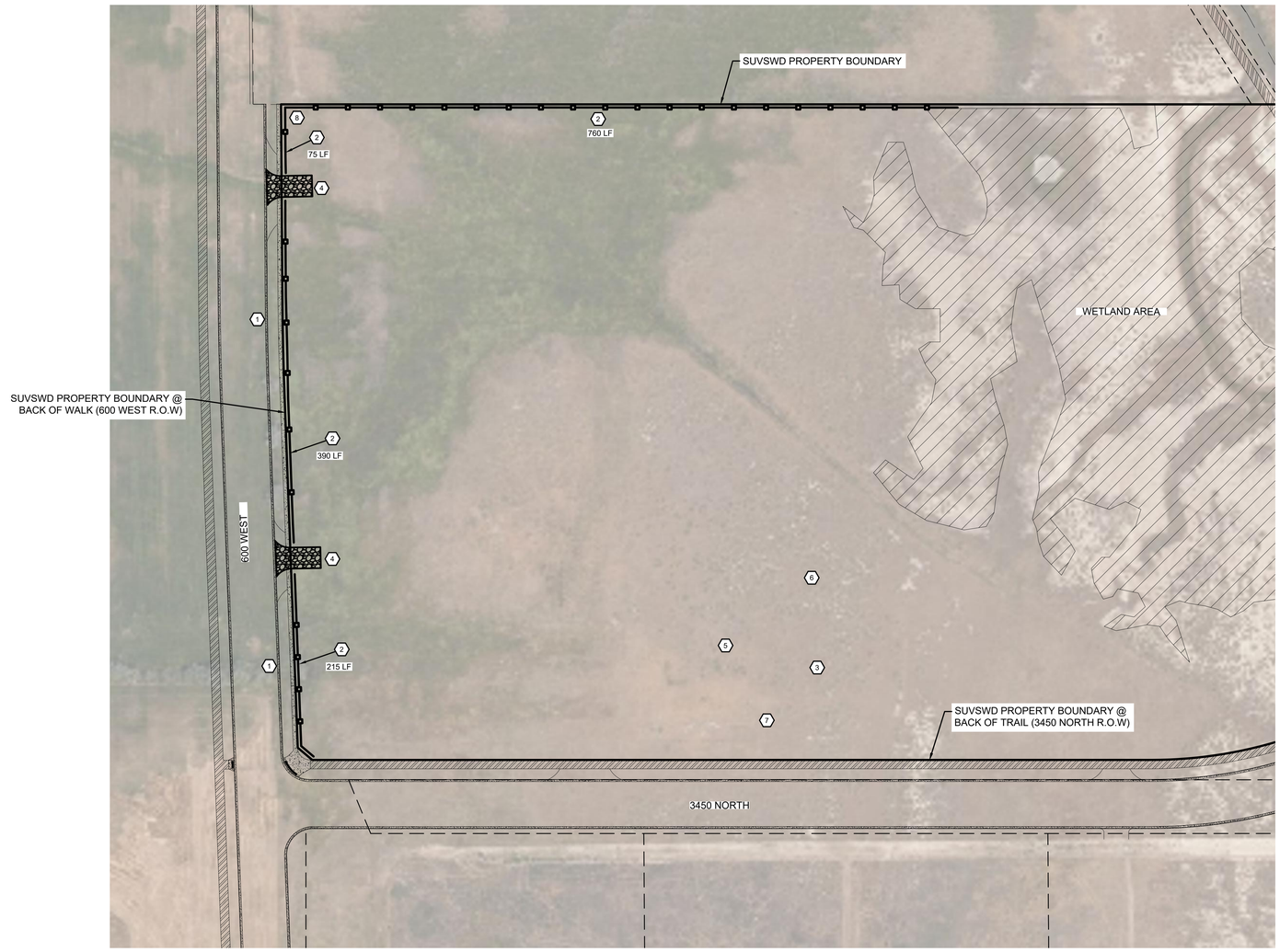
PROJECT STATUS		
△	DATE	REVISION
		AUG. 2021

LICENSED PROFESSIONAL ENGINEER
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STATE OF UTAH

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CIVIL DETAILS

C-010
XX OF XX



GENERAL NOTES

1. IT IS THE RESPONSIBILITY OF THE OWNER/OPERATOR TO USE BEST MANAGEMENT PRACTICES, WHEN NEEDED DELETE AND MODIFY THOSE SHOWN.
2. DISTURBED LAND SHALL BE KEPT TO A MINIMUM. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE. HOWEVER, WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 21 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
3. RESEED DISTURBED LAND WITH NATIVE SEED MIXTURE WITHIN 14 CALENDAR DAYS OF ACHIEVEMENT OF FINISH GRADE.
4. DETAILS SHOWN ARE TO HELP PROTECT SOIL AGAINST RUNOFF. NOT ALL DETAILS ARE NECESSARY AT ALL PHASES OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE OWNER/OPERATOR TO USE APPROPRIATE BEST MANAGEMENT PRACTICES AT THE APPROPRIATE PHASE OF CONSTRUCTION. SEE SWPPP FOR BMP IMPLEMENTATION SCHEDULE.
5. THE SWPPP IS A LIVING DOCUMENT, BEST MANAGEMENT PRACTICES ARE SHOWN AT SUGGESTED LOCATIONS. THE CONTRACTOR MAY MOVE THESE BMP'S AS LONG AS THE INTENT OF THE DESIGN IS MAINTAINED. NOT ALL POSSIBLE BMP'S HAVE BEEN SHOWN. THE CONTRACTOR IS RESPONSIBLE TO APPLY CORRECT MEASURES TO PREVENT THE POLLUTION OF STORM WATER PER PROJECT SWPPP.
6. A UPDES (UTAH POLLUTANT DISCHARGE ELIMINATION SYSTEM) PERMIT IS REQUIRED BY THE LOCAL JURISDICTION.
7. A NOTICE OF INTENT (NOI) FROM THE STATE OF UTAH, DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER QUALITY WILL NEED TO BE SUBMITTED.

KEYNOTES

1. INLET PROTECTION
2. SILT FENCE
3. PORTABLE TOILET
4. VEHICLE WASHDOWN AND STABILIZED CONSTRUCTION ENTRANCE
5. SUGGESTED TEMPORARY CONSTRUCTION SITE PARKING, DUMPSTER, AND MATERIAL STORAGE AREA
6. SUGGESTED STOCKPILE AREA
7. CONCRETE WASTE MANAGEMENT
8. SWPPP SIGN

N

GRAPHIC SCALE

0' 25' 50' 100' 150'

Scale: 1"=50'

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc
270 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4700 FAX: 801.364.4052

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STATE OF UTAH

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EROSION CONTROL

C-011

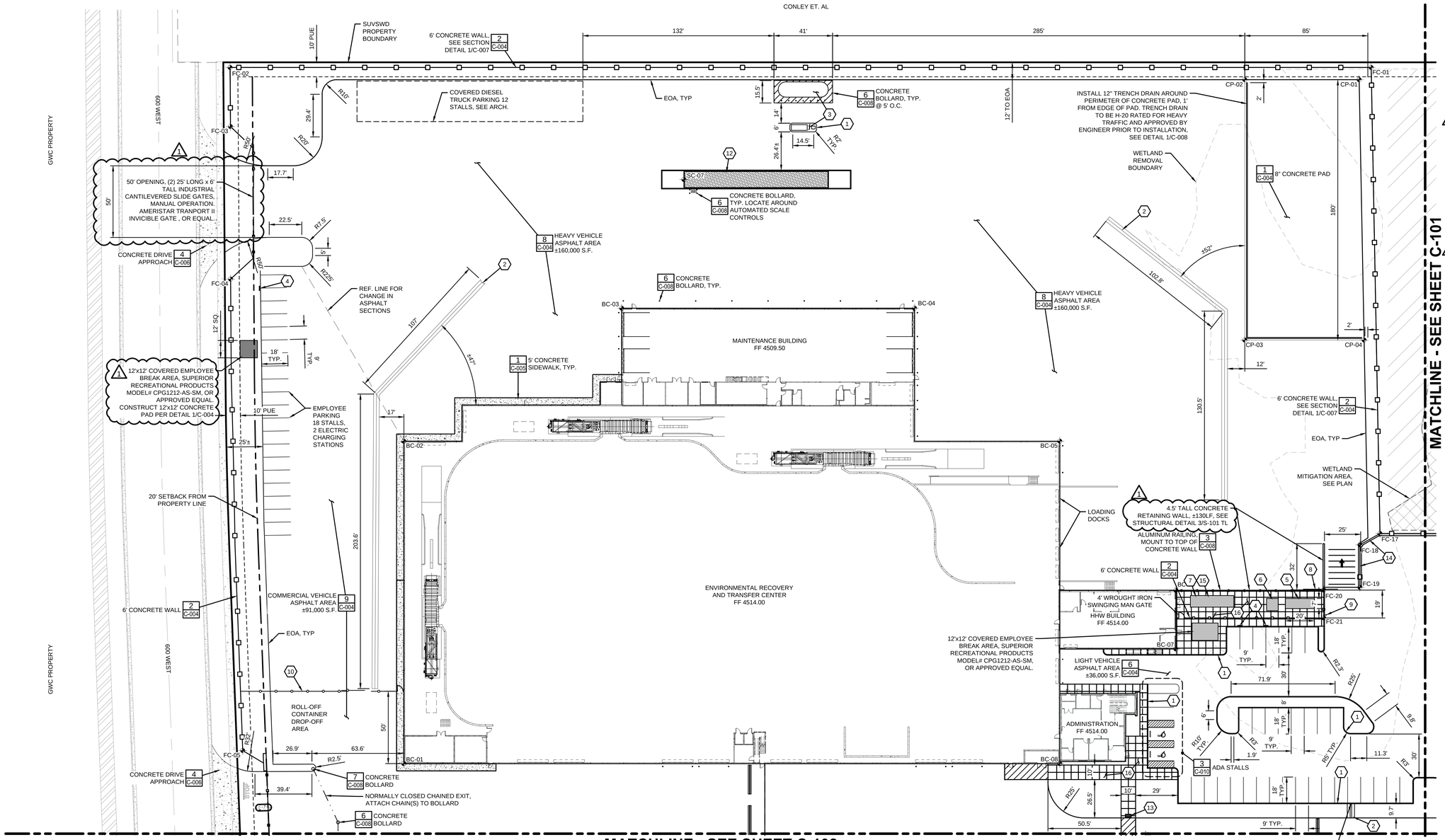
XX OF XX

POINT TABLE

POINT ID	NORTHING	EASTING	ELEV.
BC-01	7224746.52	1594595.24	4514.00
BC-02	7224969.35	1594595.24	4509.50
BC-03	7225061.27	1594745.70	4509.50
BC-04	7225061.27	1594948.03	4509.50
BC-05	7224969.35	1595048.37	4509.50
BC-06	7224866.35	1595128.58	4514.00
BC-07	7224825.77	1595128.58	4514.00
BC-08	7224746.52	1595048.37	4514.00
CP-01	7225219.22	1595255.19	4509.90
CP-02	7225219.20	1595176.19	4509.05
CP-03	7225039.20	1595176.19	4508.25
CP-04	7225039.20	1595258.61	4509.50

POINT TABLE

POINT ID	NORTHING	EASTING	ELEV.
FC-01	7225227.62	1595263.49	4510.50
FC-02	7225227.62	1594475.19	4512.57
FC-03	7225186.82	1594475.47	4512.75
FC-04	7225081.37	1594475.55	4513.15
FC-05	7224755.56	1594483.94	4515.00
FC-17	7224905.52	1595269.55	4514.50
FC-18	7224897.76	1595255.74	4514.35
FC-19	7224868.31	1595255.74	4514.10
FC-20	7224866.42	1595230.74	4514.50
FC-21	7224847.18	1595230.74	4514.45
SC-07	7225150.19	1594788.65	4510.00



KEYNOTES: (X)

1. 6" CONCRETE CURB, APWA 209 TYPE "P"
2. 4' CONCRETE WATERWAY,SEE DETAIL 2/C-005.
3. FUELING STATION SHALL INCLUDE:
   - CLIMATE CONTROLLED DEF SHELTER, FLUIDALL DEFGR660 OR APPROVED EQUAL.
   - DUAL DIESEL PUMPING SYSTEM, FRONTIER SERIES II - F230, OR APPROVED EQUAL.
   - 20,000 GALLON ABOVE GROUND HORIZONTAL DIESEL STORAGE TANK, DOUBLE WALL U.L. 142. INCLUDING SUB PUMPS, VALVES, HOSES, LEVEL MONITORS, & FUEL MANAGEMENT SYSTEM.
   - POWER SHALL BE SUITABLE FOR 3PH 120/208/480V.
   - ALL OTHER ANCILLARY COMPONENTS FOR A FULL AND COMPLETE FUEL DISPENSING SYSTEM.
4. DUAL HEAD ELECTRIC CHARGING STATIONS, REF. ELECTRICAL DWGS.
5. CONCRETE GENERATOR PAD, SEE DETAIL 7/C-004. LOCATE PAD TO MAINTAIN REQUIRED CLEARANCE PER MANUFACTURER'S RECOMMENDATIONS.
6. CONCRETE TRANSFORMER PAD, SEE DETAIL 4/C-004. LOCATE PAD TO MAINTAIN REQUIRED CLEARANCE PER MANUFACTURER'S RECOMMENDATIONS.
7. 2-HOUR HAZMAT STORAGE CONTAINER, MODEL: US HAZMAT STORAGE FIRESAFE 2X 30x8, OR APPROVED EQUAL. INCLUDING:
   - EXPLOSION PROOF ELECTRICAL AND LIGHTING, CLASS 1 DIV. 1
   - DRY CHEMICAL FIRE SUPPRESSION SYSTEM
   - 3PH/240V
   - MIN. 40 DRUM CAPACITY WITH CONTAINMENT SUMPS
   - HEATING SYSTEM
8. 25' LONG x 6' TALL ELECTRIC OPERATED CANTILEVERED SLIDE GATE. AMERISTAR TRANSPORT II, OR APPROVED EQUAL. MOUNT WHEEL TRACK TO RETAINING WALL.
9. GATE OPERATOR, MOUNT @ 42" AFG ON GOOSENECK STAND.
10. 6' CHAINLINK GATE DETAIL 7/C-010. INCLUDE 16' ROLLING GATE DETAIL 9/C-010 (COORDINATE GATE LOCATION WITH OWNER) AND 4' PEDESTRIAN GATE DETAIL 8/C-010 (LOCATE ADJACENT TO BUILDING).
11. CONCRETE SIDEWALK, DETAIL 1/C-005.
12. 110' TRANSFER VEHICLE OUTBOUND SCALE PROVIDED BY OWNER, INSTALLED BY SUPPLIER. CONTRACTOR SHALL INSTALL CONCRETE PIT PER SUPPLIERS RECOMMENDATIONS AND DETAILS. SEE DETAIL 1, SHEET C-102.
13. ADA COMPLIANT DETECTABLE WARNING SURFACE MEETING ISO 23599, SAFETY YELLOW, CAST IN CONCRETE 2'x4' TRUNCATED DOME SURFACE.
14. 45 LF OF RETAINING CONCRETE SOUND WALL PER DETAIL 3/C-009.
15. MOUNT HAZMAT STORAGE CONTAINER ON 8" CONCRETE PAD, SEE DETAIL 1/C-004.
16. CONCRETE SIDEWALK, SEE DETAIL 1/C-005.

PARKING COUNT

PARTICULARS	PROVIDED	
	STANDARD	ADA
PUBLIC PARKING STALLS	35	2
EMPLOYEE PARKING STALLS	20	
TOTAL	57	

NOTES:
- REQUIRED PARKING PER SFC CODE 15.4.16.120 FOR MANUFACTURING/ ASSEMBLY/WHOLESALE/ WAREHOUSE IS 1:EMPLOYEE ON THE HIGHEST SHIFT.
- TOTAL REQUIRED: 24 STALLS

ACREAGE

	AREA (ac)	PERCENTAGE
TOTAL	22.50	100%
UNDEVELOPED	7.92	35%
DEVELOPED	14.58	65%
Percentages of Developed Area		
BUILDING	3.01	21%
LANDSCAPED	2.32	16%
IMPERVIOUS	9.25	63%

NOTES:
- UNDEVELOPED AREA INCLUDES 6-ACRES OF UNUSABLE WETLANDS.
- IMPERVIOUS AREA IS ASPHALT AND CONCRETE FOR ONSITE TRAFFIC AND SITE OPERATIONS.

N

GRAPHIC SCALE

0' 15' 30' 60' 90'

Scale: 1"=30'

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: (801.364.4755 FAX: 801.364.4660

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS		
	DATE	REVISION
1	JAN-22	AUG. 2021 ADDENDUM 2

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

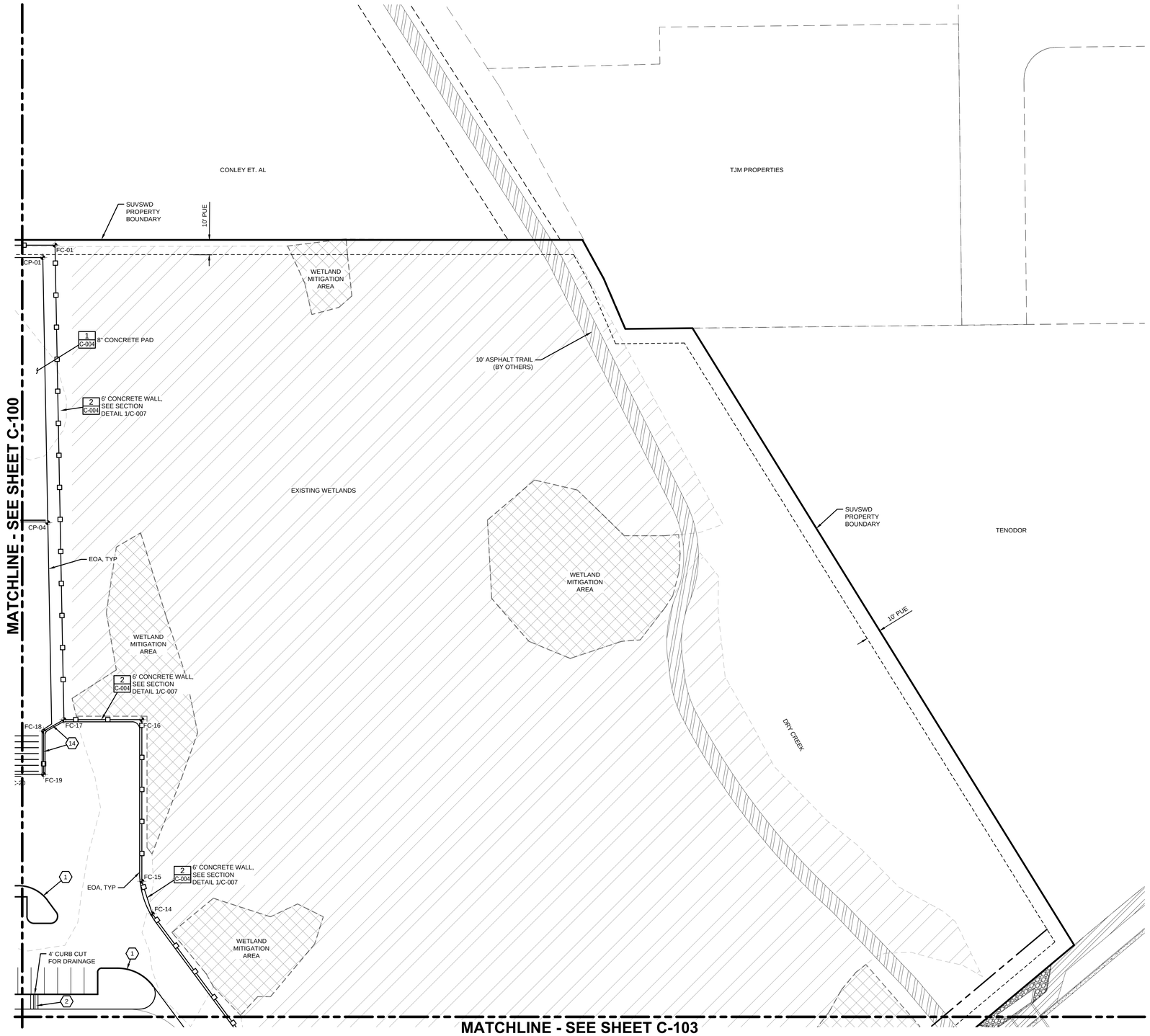
VIEW AND PRINT THIS SHEET IN COLOR

AREA 1 - SITE PLAN

C-100

XX OF XX

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POINT TABLE

POINT ID	NORTHING	EASTING	ELEV.
CP-01	7225219.22	1595255.19	4509.90
CP-04	7225039.20	1595258.61	4509.50
FC-01	7225227.62	1595263.49	4510.50
FC-14	7224773.63	1595329.59	4513.85
FC-15	7224795.80	1595322.44	4513.90
FC-16	7224905.52	1595322.44	4514.95
FC-17	7224905.52	1595269.55	4514.50
FC-18	7224897.76	1595255.74	4514.35
FC-19	7224868.31	1595255.74	4514.10
FC-20	7224866.42	1595230.74	4514.50

KEYNOTES: (X)

1. 6" CONCRETE CURB, APWA 209 TYPE "P"
2. 4' CONCRETE WATERWAY,SEE DETAIL 2/C-005.
3. FUELING STATION SHALL INCLUDE:
   - CLIMATE CONTROLLED DEF SHELTER, FLUIDALL DEFGR660 OR APPROVED EQUAL.
   - DUAL DIESEL PUMPING SYSTEM, FRONTIER SERIES II - F230, OR APPROVED EQUAL.
   - 20,000 GALLON ABOVE GROUND HORIZONTAL DIESEL STORAGE TANK, DOUBLE WALL U.L. 142. INCLUDING SUB PUMPS, VALVES, HOSES, LEVEL MONITORS, & FUEL MANAGEMENT SYSTEM.
   - POWER SHALL BE SUITABLE FOR 3PH 120/208/480V.
   - ALL OTHER ANCILLARY COMPONENTS FOR A FULL AND COMPLETE FUEL DISPENSING SYSTEM.
4. DUAL HEAD ELECTRIC CHARGING STATIONS, REF. ELECTRICAL DWGS.
5. CONCRETE GENERATOR PAD, SEE DETAIL 7/C-004. LOCATE PAD TO MAINTAIN REQUIRED CLEARANCE PER MANUFACTURER'S RECOMMENDATIONS.
6. CONCRETE TRANSFORMER PAD, SEE DETAIL 4/C-004. LOCATE PAD TO MAINTAIN REQUIRED CLEARANCE PER MANUFACTURER'S RECOMMENDATIONS.
7. 2-HOUR HAZMAT STORAGE CONTAINER, MODEL: US HAZMAT STORAGE FIRESAFE 2X 30x8, OR APPROVED EQUAL. INCLUDING:
   - EXPLOSION PROOF ELECTRICAL AND LIGHTING, CLASS 1 DIV. 1
   - DRY CHEMICAL FIRE SUPPRESSION SYSTEM
   - 3PH/240V
   - MIN. 40 DRUM CAPACITY WITH CONTAINMENT SUMPS
   - HEATING SYSTEM
8. 25' WROUGHT IRON ELECTRIC SLIDE GATE. MOUNT WHEEL TRACK TO RETAINING WALL.
9. GATE OPERATOR, MOUNT @ 42" AFG ON GOOSENECK STAND.
10. 6' CHAINLINK GATE DETAIL 7/C-010. INCLUDE 16' ROLLING GATE DETAIL 9/C-010 AND 4' PEDESTRIAN GATE DETAIL 8/C-010.
11. CONCRETE SIDEWALK, DETAIL 1/C-005.
12. TRANSFER VEHICLE OUTBOUND SCALE, RELOCATED FROM EXISTING TRANSFER STATION. CONTRACTOR TO INSTALL NEW 3' DEEP PIT AND 10' CONCRETE APPROACH ON EACH SIDE PER MANUFACTURER'S INSTRUCTIONS. SUPPLIER TO PROVIDE NEW AUTOMATED VEHICLE SCALE CONTROLS.
13. ADA COMPLIANT DETECTABLE WARNING SURFACE MEETING ISO 23599. SAFETY YELLOW, CAST IN CONCRETE 2'x4' TRUNCATED DOME SURFACE.
14. 45 LF OF RETAINING CONCRETE SOUND WALL PER DETAIL 3/C-009.
15. MOUNT HAZMAT STORAGE CONTAINER ON 8" CONCRETE PAD, SEE DETAIL 1/C-004.
16. CONCRETE SIDEWALK, SEE DETAIL 1/C-005.

N

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0' 15' 30' 60' 90'

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PROJECT STATUS

DATE	REVISION
	AUG. 2021

LICENSED PROFESSIONAL ENGINEER NO. 10288921-2202 NICHOLAS A. PATTERSON STATE OF UTAH

VIEW AND PRINT THIS SHEET IN COLOR

AREA 2 - SITE PLAN

C-101

XX OF XX

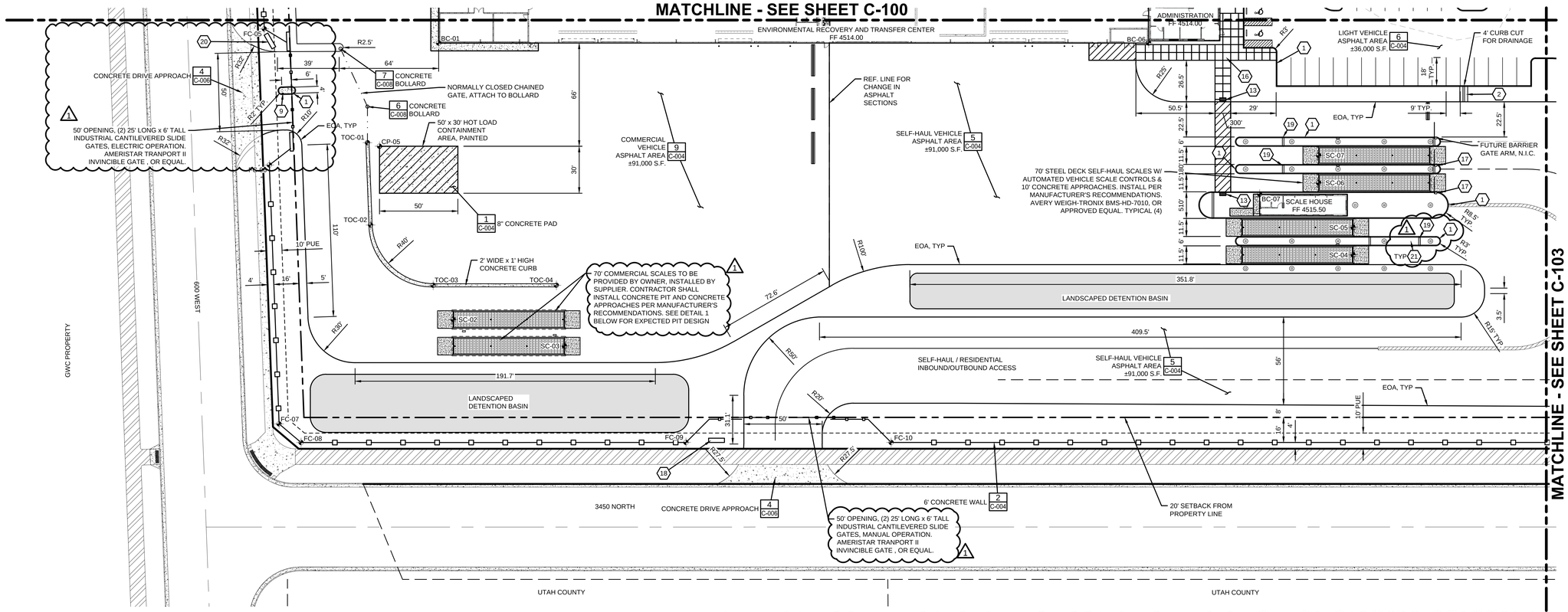
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POINT TABLE

POINT ID	NORTHING	EASTING	ELEV.
BC-01	7224746.52	1594595.24	4514.00
BC-06	7224746.52	1595048.37	4514.00
BC-07	7224650.02	1595119.21	4515.50
CP-05	7224680.63	1594557.49	4514.15
FC-05	7224755.56	1594483.94	4515.00
FC-06	7224668.60	1594487.20	4515.00
FC-07	7224503.32	1594493.41	4514.43
FC-08	7224491.45	1594507.44	4514.41
FC-09	7224491.47	1594753.07	4516.50
FC-10	7224491.47	1594884.06	4515.65

POINT TABLE

POINT ID	NORTHING	EASTING	ELEV.
SC-02	7224569.99	1594604.53	4513.80
SC-03	7224552.99	1594675.51	4513.80
SC-04	7224611.27	1595178.80	4514.00
SC-05	7224628.77	1595178.80	4514.00
SC-06	7224657.27	1595156.89	4514.00
SC-07	7224674.77	1595156.89	4514.00
TOC-01	7224682.89	1594549.80	4515.25
TOC-02	7224630.31	1594551.78	4515.35
TOC-03	7224591.81	1594591.75	4514.84
TOC-04	7224591.82	1594670.42	4514.50

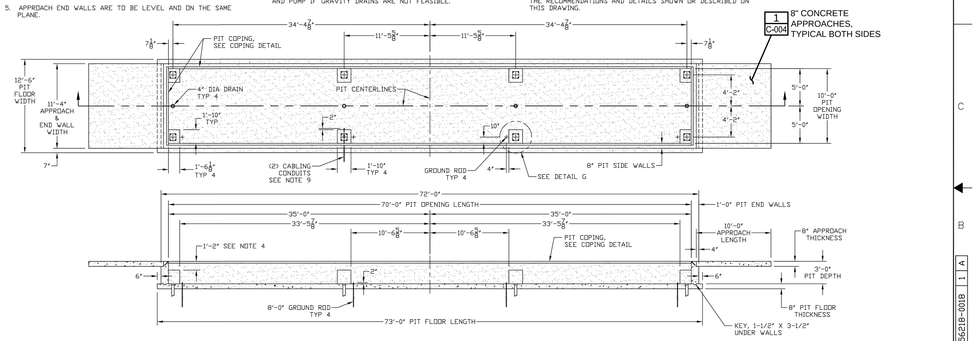


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   - 3PH/240V
   - MIN. 40 DRUM CAPACITY WITH CONTAINMENT SUMPS
   - HEATING SYSTEM
8. 25' LONG x 6' TALL ELECTRIC OPERATED CANTILEVERED SLIDE GATE. AMERISTAR TRANSPORT II, OR APPROVED EQUAL. MOUNT WHEEL TRACK TO RETAINING WALL.
9. GATE OPERATOR, MOUNT @ 42" AFG ON GOOSENECK STAND.
10. 6' CHAINLINK GATE DETAIL 7/C-010. INCLUDE 16' ROLLING GATE DETAIL 9/C-010 AND 4' PEDESTRIAN GATE DETAIL 8/C-010.
11. CONCRETE SIDEWALK, DETAIL 1/C-005.
12. 110' TRANSFER VEHICLE OUTBOUND SCALE PROVIDED BY OWNER, INSTALLED BY SUPPLIER. CONTRACTOR SHALL INSTALL CONCRETE PIT PER SUPPLIERS RECOMMENDATIONS AND DETAILS. SEE DETAIL 1, SHEET C-102.
13. ADA COMPLIANT DETECTABLE WARNING SURFACE MEETING ISO 23599. SAFETY YELLOW, CAST IN CONCRETE 2'x4' TRUNCATED DOME SURFACE.
14. 45 LF OF RETAINING CONCRETE SOUND WALL PER DETAIL 3/C-009.
15. MOUNT HAZMAT STORAGE CONTAINER ON 8" CONCRETE PAD, SEE DETAIL 1/C-004.
16. CONCRETE SIDEWALK, SEE DETAIL 1/C-005.
17. HIGH TRAFFIC BARRIER GATE WITH REMOTE ACCESS INSIDE SCALE HOUSE, 10' ARM LENGTH, LIFT MASTER MODEL LMGTCA00MA9 OR APPROVED EQUAL.
18. SUVSWD INBOUND SIGN AND MARQUEE, APPROXIMATELY 10' TALL x 8' WIDE, SEE DETAIL 2/C-102.
19. PROVIDE 12" CUT THROUGH CONCRETE ISLAND FOR DRAINAGE. COVER WITH FIBERGLASS GRATING. QTY: (6) 12"x6' LONG AND (1) 12"x17' LONG.
20. SUVSWD INBOUND SIGN AND MARQUEE, APPROXIMATELY 6' TALL x 8' WIDE, SEE DETAIL 3/C-102.
21. CONCRETE SCALE HOUSE ISLANDS SHALL BE 8" THICK, SEE DETAIL 1/C-004.

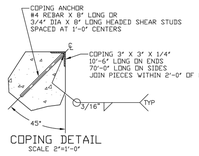
NOTES:

1. MINIMUM SOIL BEARING CAPACITY OF 2,000 POUNDS PER SQUARE FOOT. DUE TO VARYING SOIL CONDITIONS, WEIGH-TRONIX INC WILL NOT BE RESPONSIBLE FOR STABILITY OF FOUNDATION. IF SOIL BASE IS INADEQUATE, THE CONTRACTOR MUST ADD EXTRA DEPTH, WIDTH AND REINFORCING TO THE FOUNDATION AS NECESSARY TO PROVIDE A STABLE BASE.
2. FOUNDATION MUST EXTEND A MINIMUM OF 6" BELOW THE FROST PENETRATION LINE.
3. PIT FOUNDATION CONCRETE TO HAVE A 28 DAY COMPRESSIVE STRENGTH 3,500 POUNDS PER SQUARE INCH MINIMUM.
4. ALL SCALE BEARING SURFACES TO BE LEVEL AND ON THE SAME PLANE.
5. APPROACH END WALLS ARE TO BE LEVEL AND ON THE SAME PLANE.
6. PROVIDE LEVEL APPROACH SLABS AT EACH END OF SCALE AT LEAST THE WIDTH OF THE SCALE AND 1/2 THE TOTAL LENGTH OF THE SCALE. THE 10'-0" ADJACENT TO THE SCALE TO BE CONSTRUCTED PER DETAILS CONTAINED IN THE DRAWING. THE THE REMAINING APPROACH MAY SLOPE SLIGHTLY AWAY FROM THE SCALE AND MAY BE CONSTRUCTED OF ASPHALT OR GRAVEL RATHER THAN CONCRETE.
7. IF PIT WALLS ARE SUBJECT TO UNUSUAL OUTSIDE PRESSURE OR IF HEAVY TRAFFIC RUNS CLOSELY AND PARALLEL TO SCALE, THE PIT WALLS SHOULD BE BRACED WITH ADDED REBAR OR THEIR THICKNESS INCREASED AS NECESSARY TO WITHSTAND SIDE LOADS.
8. PROVIDE PIT FLOOR DRAINS, AS SHOWN, OR EQUIVALENT SUMP AND PUMP IF GRAVITY DRAINS ARE NOT FEASIBLE.
9. LOCATION OF CABLING CONDUIT, FOR CONNECTION OF INTER-FACE CABLE TO INDICATOR. RECOMMENDED USING 1" MINIMUM DIAMETER CONDUIT FOR CABLE PROTECTION FROM SCALE TO SUMMING BOX AREA INTO SCALE HOUSE NEAR FINAL SCALE INDICATOR LOCATION. PIT ENTRANCE FOR FIRST CONDUIT TO BE 2'-0" BELOW TOP OF PIT WALL. PIT ENTRANCE FOR SECOND CONDUIT TO BE 2'-6" BELOW TOP OF PIT WALL CENTERED ON PIER AS SHOWN. FOR LIGHTNING AND INDUCED CURRENT PRO-TECTION, THE CONDUIT MUST BE RIGID METAL CONDUIT. SECOND CONDUIT SHOWN IS FOR #4 AWG GROUND WIRE. THIS CONDUIT FROM LOCATION SHOWN TO SCALE HOUSE ELECTRICAL GROUND. MAINTAIN AT LEAST 6" OF DISTANCE BETWEEN DATA LINE CABLE CONDUIT AND THE GROUND WIRE CONDUIT.
10. LOCAL OR STATE REQUIREMENTS SUPERCEDE ANY OR ALL OF THE RECOMMENDATIONS AND DETAILS SHOWN OR DESCRIBED ON THIS DRAWING.

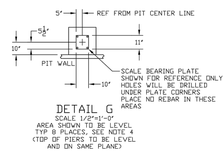


CONCRETE SCALE PIT 1
SCALE: N.T.S.

LIST OF RAW MATERIALS	
PIT CONCRETE	36.9 CUBIC YARDS
NO. 4 GRADE 60 REBAR SCALE PIT	2733'-0" (1825.9 LBS)
GROUND RODS 5/8" DIA X 8'-0" LONG STEEL COPPER OR ZINC PLATED, 4 PIECES	32'-0"
COPING 3" X 3" X 1/4" SEE COPING DETAIL	161'-0"
APPROACH CONCRETE SEE NOTE 6	5.6 CUBIC YARDS
NO. 4 GRADE 60 REBAR (2) APPROACH SLABS	444'-8" (297.0 LBS)



COPING DETAIL
SCALE 2"=1'-0"



DETAIL G
SCALE 1/2"=1'-0"
AREA SHOWN TO BE LEVEL TYP 8 PLACES, SEE NOTE 4 (TOP OF PIERS TO BE LEVEL AND ON SAME PLANE)

MELORUM SCALE COMPANY, INC.
An ISO 17025 Registered Company
541 West 7000 South - Sandy, UT 84070
Ph 801.255.5151 Fax 801.255.7256
Toll Free 1-800-624-7410
www.melorumscale.com

Avery Weigh-Tronix
1000 ARMSTRONG DRIVE FAIRMOUNT, GA 30231 USA

APPROVALS	SIGNATURE & DATE
DRAWN	Bob Reynolds 11.26.2004
MECH. ENG.	Tom Simmons 11.26.2004
TOLERANCE FRACTIONAL ± 1/64 ANGLES ± 1°	

THIS DRAWING AND SPECIFICATIONS, INCLUDING ALL DIMENSIONS, ARE THE PROPRIETARY PROPERTY OF AVERY WEIGH-TRONIX, LLC AND ARE NOT TO BE USED IN WHOLE OR IN PART FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF AVERY WEIGH-TRONIX, LLC. ANY REPRODUCTION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF AVERY WEIGH-TRONIX, LLC IS A VIOLATION OF FEDERAL LAW AND MAY SUBJECT VIOLATORS TO CIVIL AND CRIMINAL PENALTIES.
DO NOT SCALE DRAWING

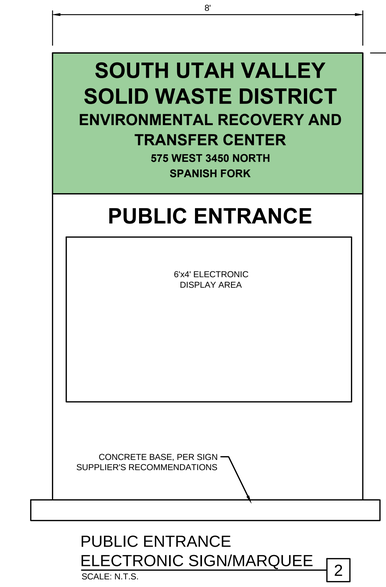
3' PIT, 8' SIDE WALLS, CONSTRUCTION DRAWING - BMS/BMC 7010

SIZE	DRAWING NO.	REV.
D	56218-0018	A
SCALE	1/4"=1'-0"	DCN 19028
SHEET	1 OF 2	

D 56218-0018 1 A

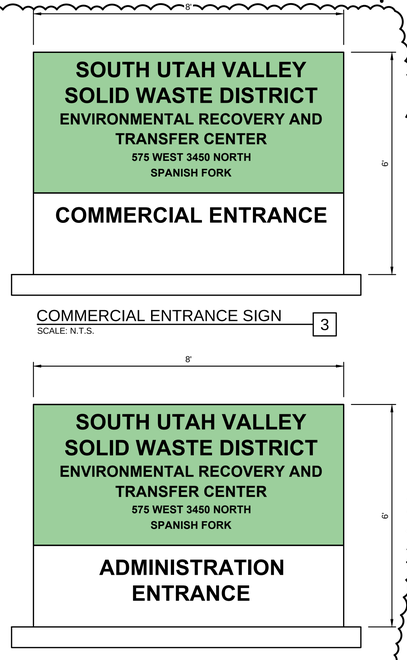
NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL ENTRY SIGN SIMILAR DETAIL SHOWN. COORDINATE FINAL DESIGN WITH ENGINEER AND OWNER.
2. CONTRACTOR SHALL FURNISH AND INSTALL LIGHTING AND ELECTRICAL COMPONENTS ACCORDING TO ELECTRICAL DESIGN AND SIGN SUPPLIER'S RECOMMENDATIONS.



PUBLIC ENTRANCE
ELECTRONIC SIGN/MARQUEE 2
SCALE: N.T.S.

NOTE:
SCALE PIT DRAWING IN DETAIL 1 IS FOR GENERAL REFERENCE AND BIDDING PURPOSES ONLY. DETAILED PIT DRAWINGS WILL BE PROVIDED TO THE CONTRACTOR AFTER OWNER'S SELECTION OF SCALE EQUIPMENT



COMMERCIAL ENTRANCE SIGN 3
SCALE: N.T.S.

ADMIN ENTRANCE SIGN 4
SCALE: N.T.S.

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FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

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1	JAN-22	AUG. 2021 ADDENDUM 2

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

VIEW AND PRINT THIS SHEET IN COLOR

AREA 3 - SITE PLAN

N

GRAPHIC SCALE
0' 15' 30' 60' 90'
Scale: 1"=30'

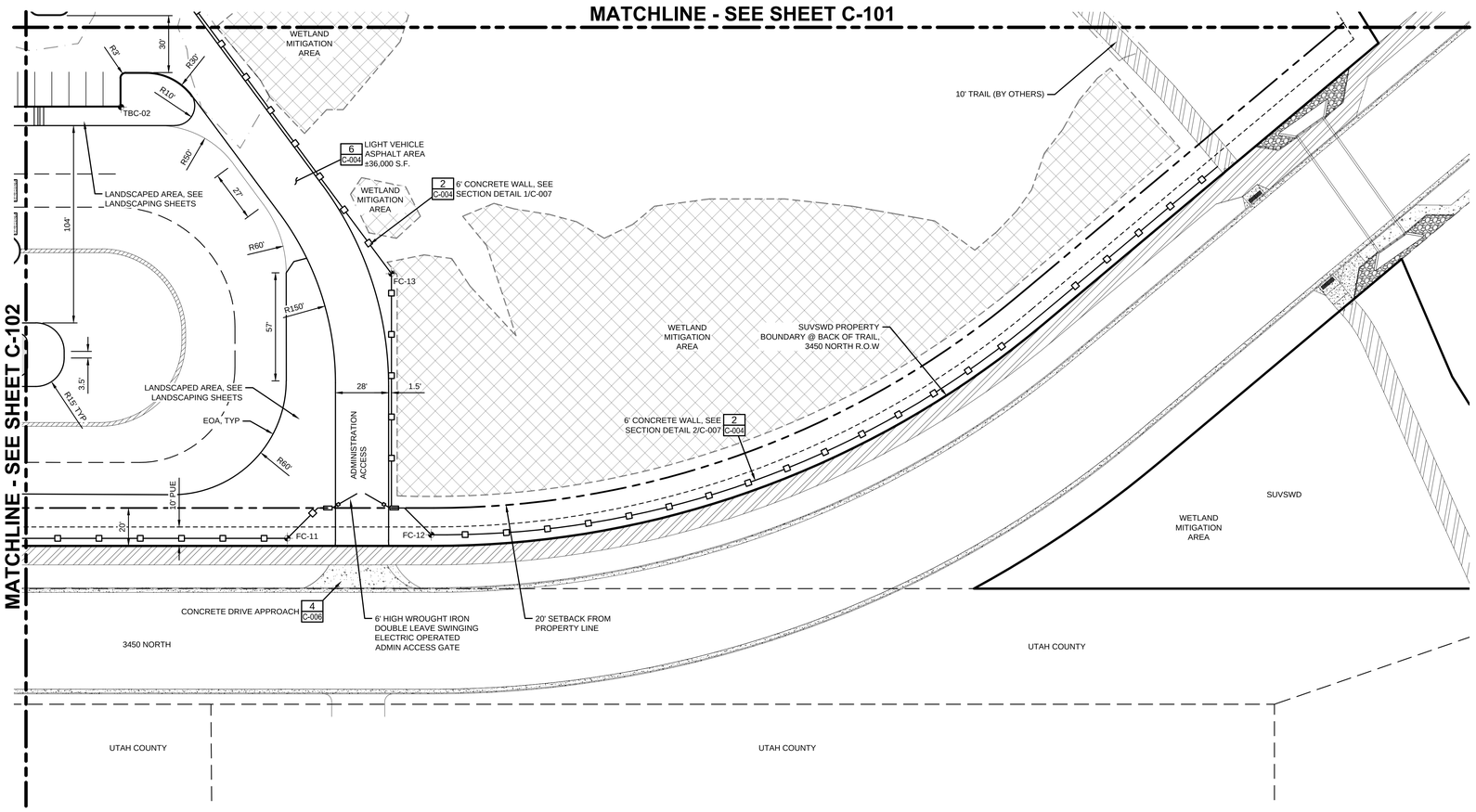
100% DESIGN

C-102
XX OF XX

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POINT TABLE

POINT ID	NORTHING	EASTING	ELEV.
FC-11	7224491.50	1595380.37	4514.40
FC-12	7224493.36	1595456.18	4514.50
FC-13	7224630.98	1595435.20	4514.19
TBC-02	7224718.74	1595292.74	4513.39



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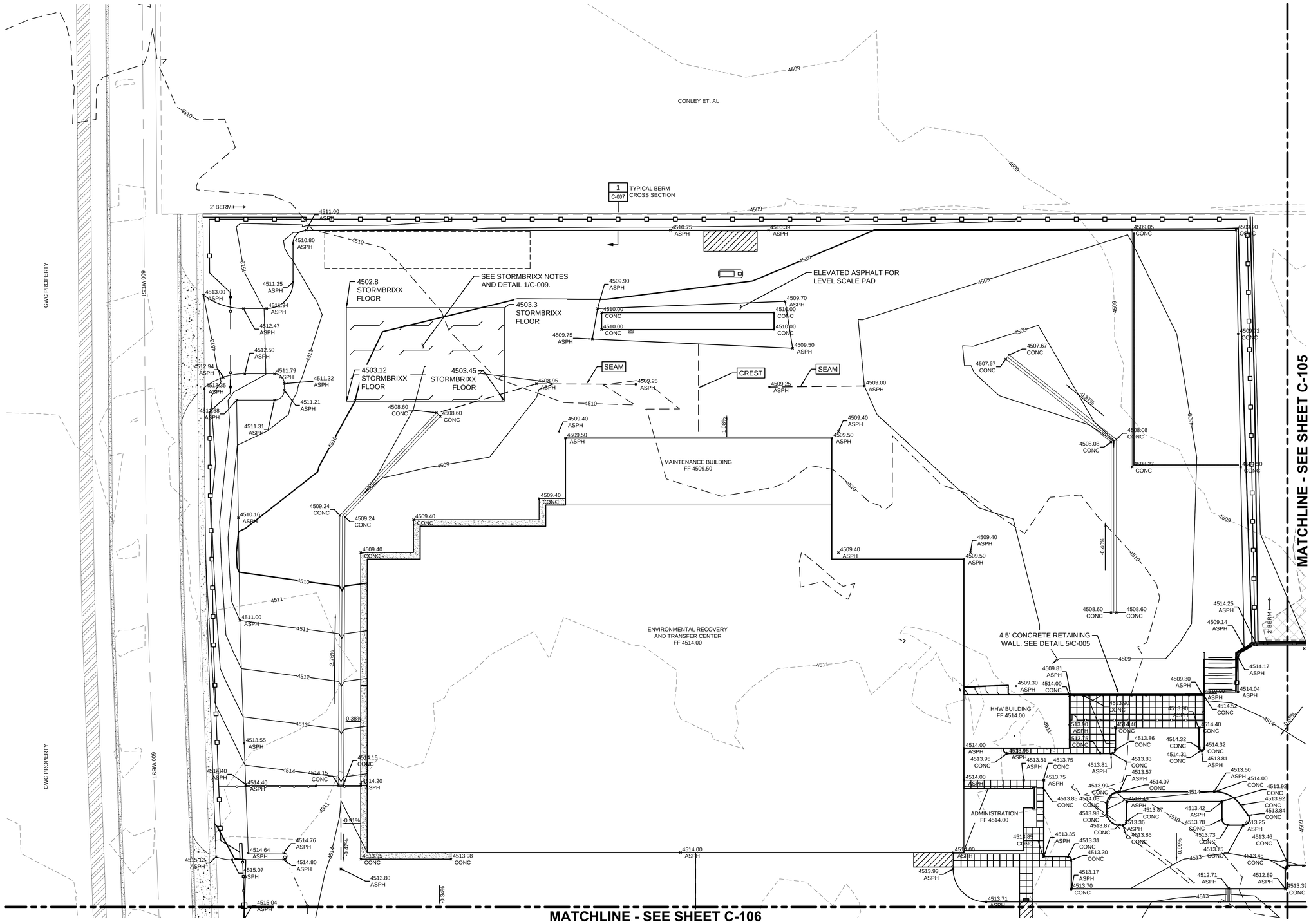
VIEW AND PRINT THIS SHEET IN COLOR

AREA 4 - SITE PLAN

C-103

XX OF XX

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STORMBRIXX NOTES:

1. STORMBRIXX TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATION
2. 1,065 UNITS, 120 FEET X 70 FEET, SINGLE STACK
3. SEE C-200 FOR PIPE INLET/OUTLET ELEVATIONS

GRAPHIC SCALE
0' 15' 30' 60' 90'
Scale: 1"=30'

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: (801) 364-4052
FAX: 801.364.4052

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS	
DATE	REVISION
	AUG. 2021

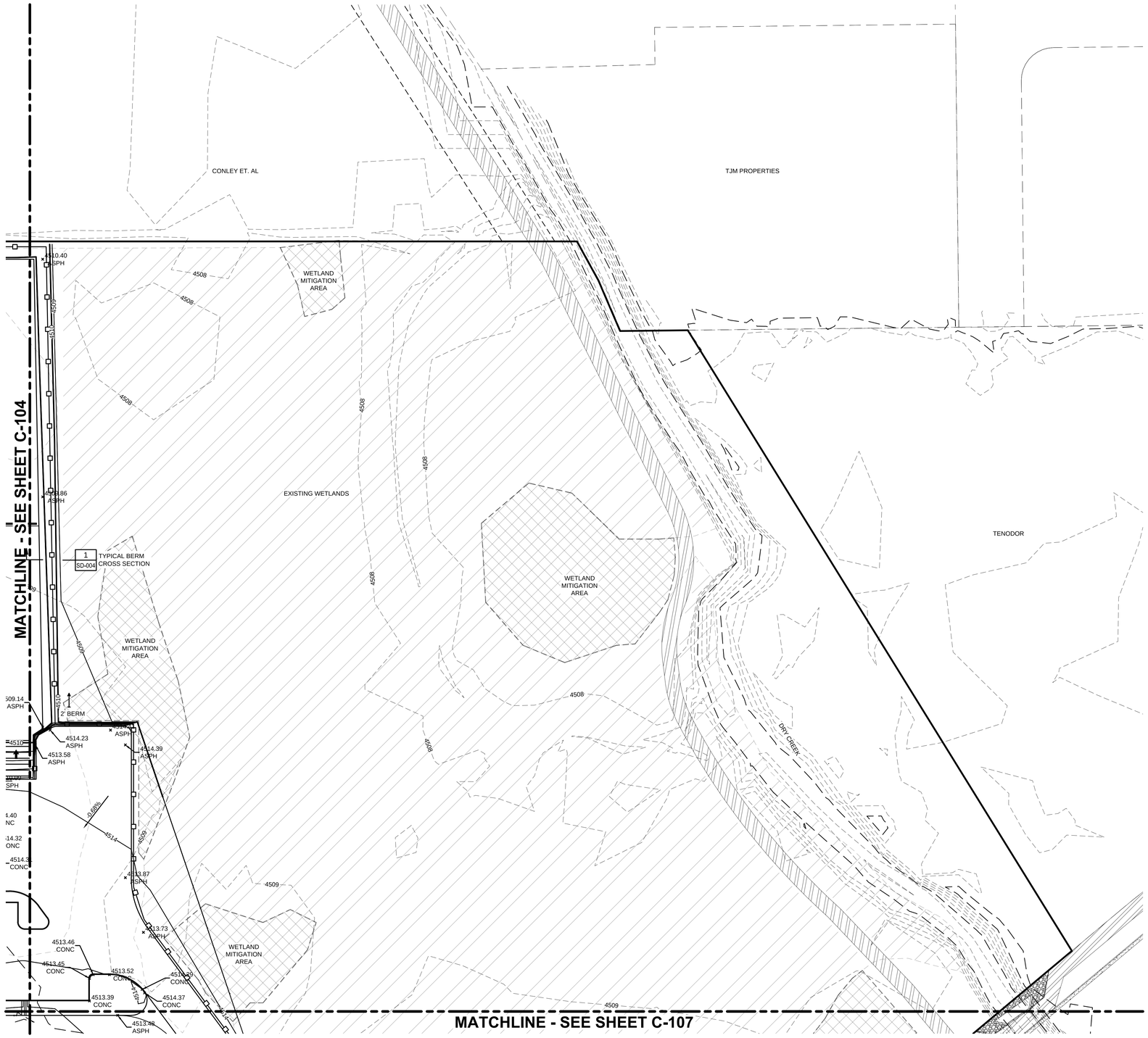
LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

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AREA 1 - DRAINAGE PLAN

C-104
XX OF XX

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PH: (801) 364-5105
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PROJECT STATUS

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LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

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GRAPHIC SCALE
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Scale: 1"=30'

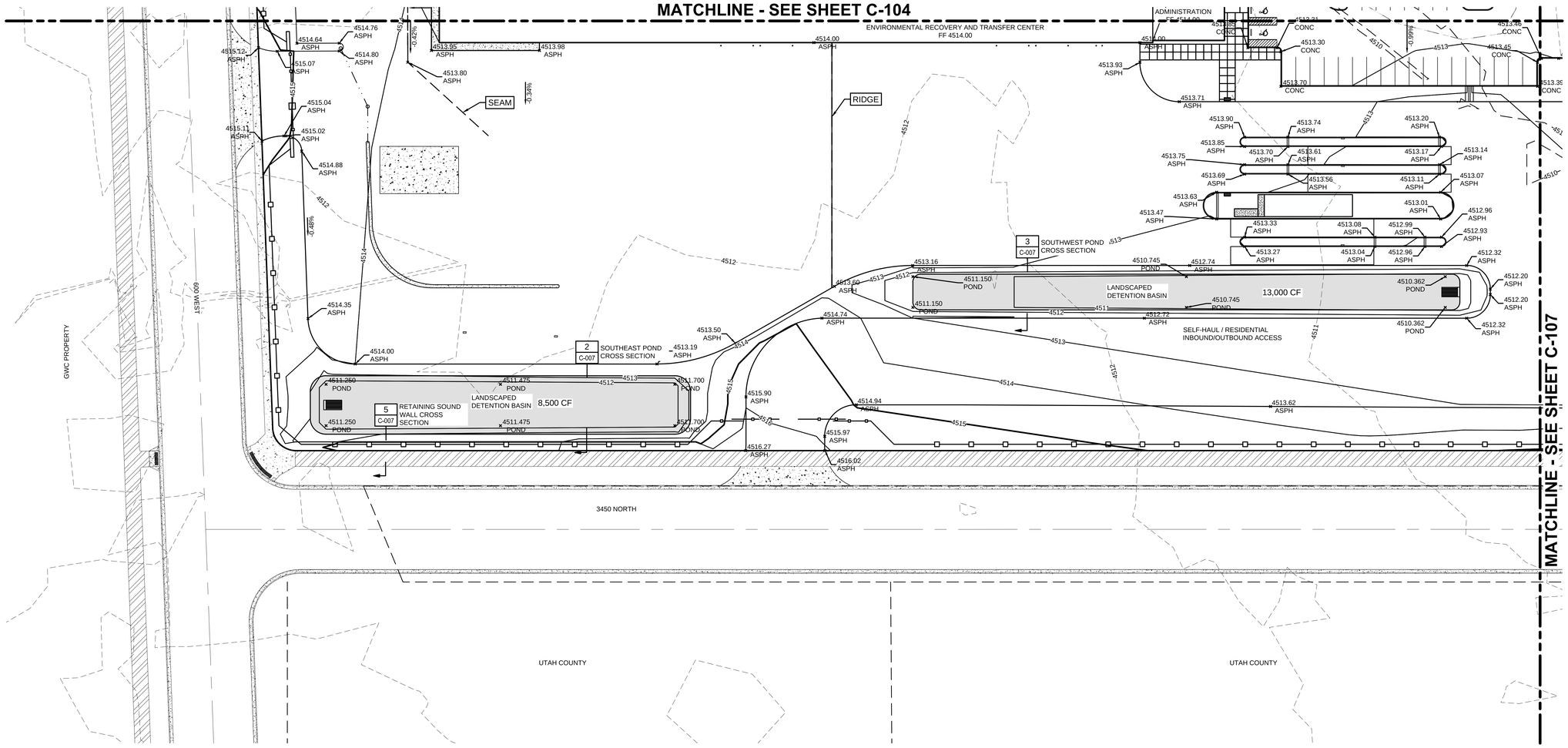
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AREA 2 - DRAINAGE PLAN

C-105
XX OF XX

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PH: (801) 364-4052
FAX: 801.364.4660

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3450 NORTH 500 WEST
SPANISH FORK, UT 84660

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NICHOLAS A. PATTERSON
STATE OF UTAH

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AREA 3 - DRAINAGE PLAN

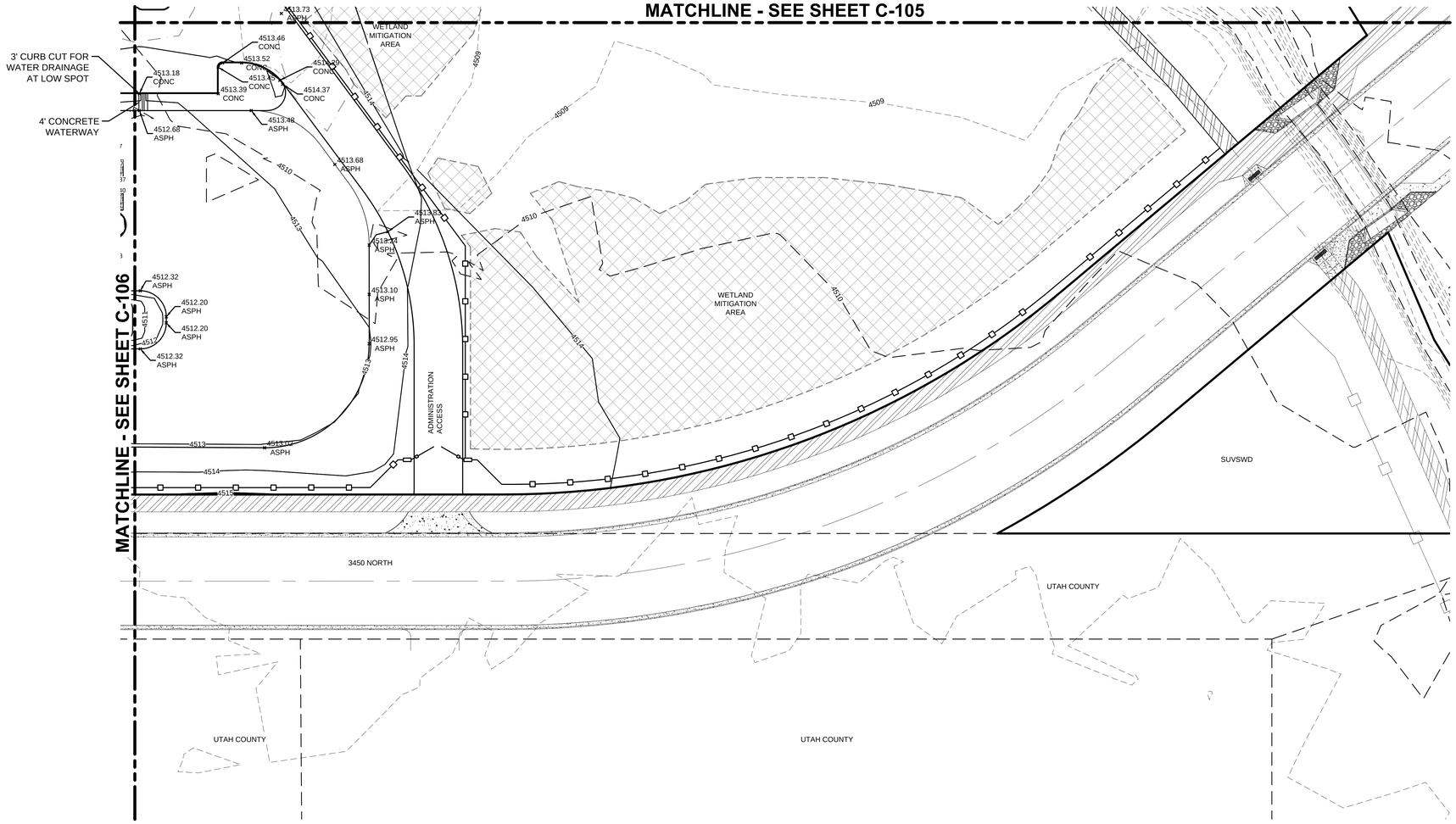
C-106
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GRAPHIC SCALE
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Scale: 1"=30'

100% DESIGN

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GRAPHIC SCALE

0' 15' 30' 60' 90'

Scale: 1"=30'

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S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4705 FAX: 801.364.4682

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

PA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

DATE	REVISION
	AUG. 2021

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

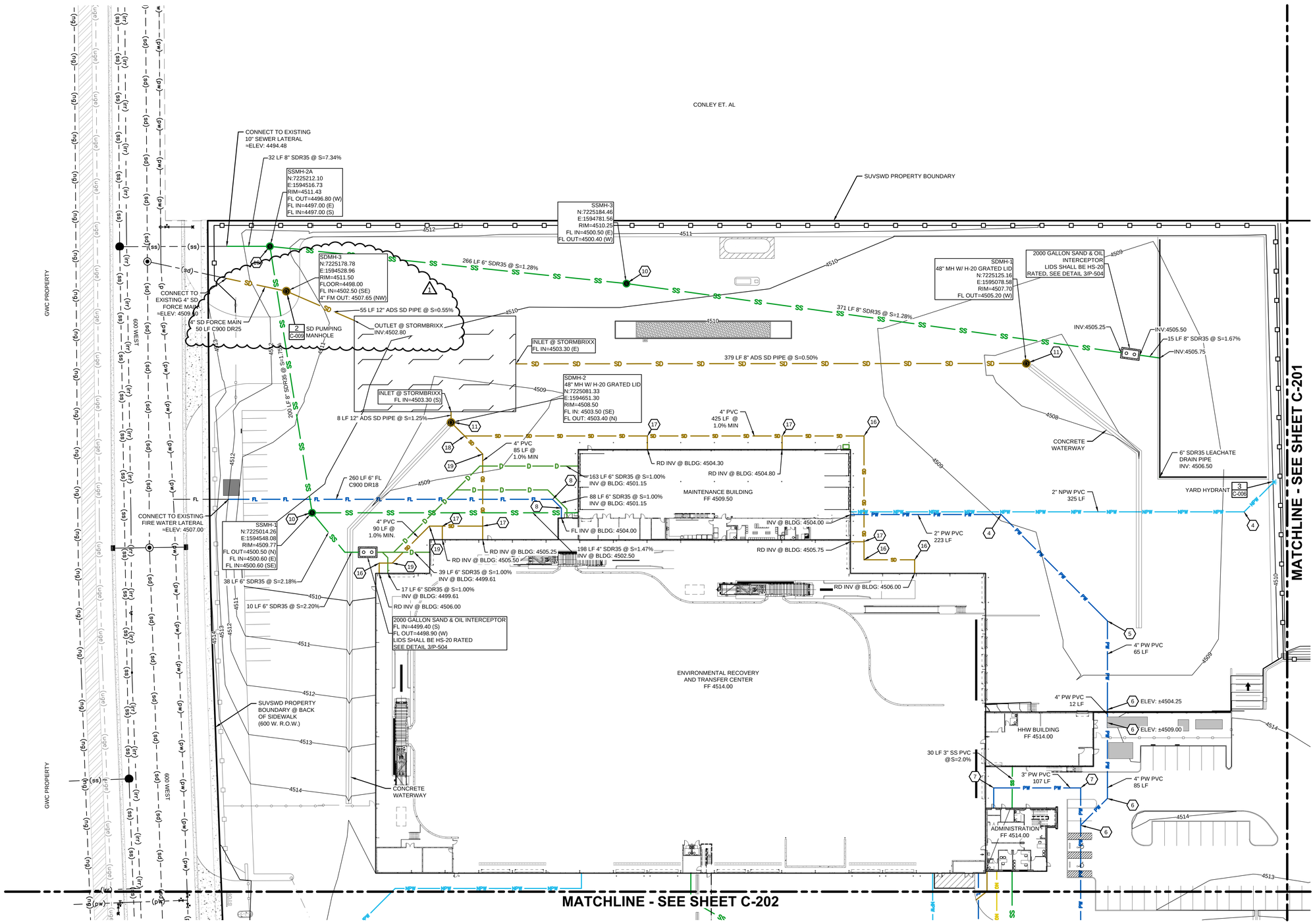
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AREA 4 - DRAINAGE PLAN

C-107

XX OF XX

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KEYNOTES: (X)

1. SEE PIPE SCHEDULE AND ABBREVIATIONS LIST ON SHEET C-000 FOR INFORMATION ON PIPES.
2. MANHOLES ARE 4'-0" DIAMETER UNLESS OTHERWISE NOTED.
3. MAINTAIN 5' OF COVER ON THE POTABLE WATER AND FIRE LINES.
4. 2" PVC 45° BEND, RESTRAINED JOINT.
5. 4" PVC WYE BEND, RESTRAINED JOINT, ADD REDUCERS AS NECESSARY.
6. 4" PVC 45° BEND, RESTRAINED JOINT.
7. 3" PVC 90° BEND, RESTRAINED JOINT.
8. 6" PVC 45° BEND, RESTRAINED JOINT.
9. MAINTAIN 3' BFG ON THE NON-POTABLE WATER.
10. 48" SANITARY SEWER MANHOLE, PER APWA SPECIFICATION 411, SEE DETAIL 5/C-006.
11. 48" STORM DRAIN MANHOLE WITH H-20 GRATED LID, PER APWA SPECIFICATION 341.1, SEE DETAIL 3/C-004.
12. PIPE TRENCH PER DETAIL 2/C-008.
13. MAINTAIN WATER LINE VERTICAL AND HORIZONTAL CLEARANCES, SEE DETAIL 1/C-006.
14. INSTALL THRUST BLOCKS ON PRESSURIZED WATER AND IRRIGATION LINES, SEE DETAIL 3/C-005.
15. CONNECT STORM DRAIN PIPE TO ROOF DRAIN AT ELEVATION SHOWN. PROVIDE 10 LF OF 4" PVC LATERAL TO 4" SD COLLECTION LINE, TYPICAL OF 7.
16. 4" PVC 90° BEND.
17. 4" PVC TEE.
18. 4" PVC WYE BEND.
19. 4" PVC 45° BEND.

ABBREVIATIONS

SD	STORM DRAIN
SS	SANITARY SEWER
D	PROCESS/LEACHATE DRAIN
PW	POTABLE WATER
NPW	NON-POTABLE WATER
FL	FIRE LINE
NG	NATURAL GAS
PI	PRESSURIZED IRRIGATION
UGE	UNDERGROUND ELECTRIC
INV	INVERT
RD	ROOF DRAIN
BFG	BELOW FINISHED GRADE

GRAPHIC SCALE
0' 15' 30' 60' 90'
Scale: 1"=30'

100% DESIGN

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577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: (801) 364-4700 FAX: 801.364.4602

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT #:05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS		
	DATE	REVISION
1	JAN-22	AUG. 2021 ADDENDUM 2

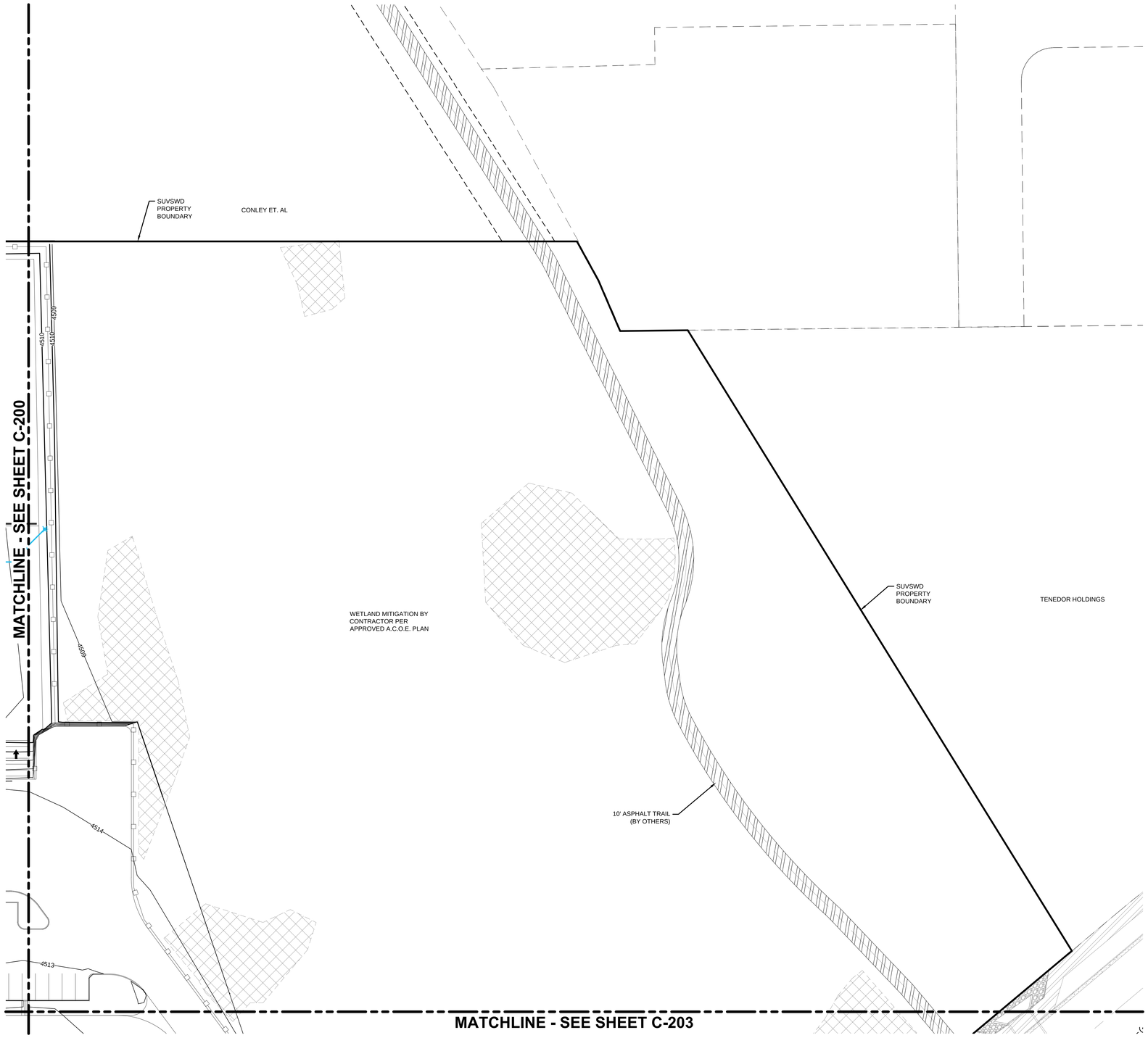
LICENSED PROFESSIONAL ENGINEER NO. 10288921-2202 NICHOLAS A. PATTERSON STATE OF UTAH

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AREA 1 - YARD PIPING PLAN

C-200
XX OF XX

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NO UTILITY WORK
ON THIS SHEET

NOTES:

1. SEE PIPE SCHEDULE AND ABBREVIATIONS LIST ON SHEET C-002 FOR INFORMATION ON PIPES.
2. MANHOLES ARE 4'-0" DIAMETER UNLESS OTHERWISE NOTED.
3. MAINTAIN 5' OF COVER ON THE POTABLE WATER LINES.

ABBREVIATIONS

SD	STORM DRAIN
SS	SANITARY SEWER
D	PROCESS/LEACHATE DRAIN
PW	POTABLE WATER
FL	FIRE LINE
NG	NATURAL GAS
PI	PRESSURIZED IRRIGATION
UGE	UNDERGROUND ELECTRIC
FL	FLOWLINE
INV	INVERT

N

GRAPHIC SCALE
0' 15' 30' 60' 90'
Scale: 1"=30'

100% DESIGN

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577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: (801) 364-4705
FAX: 801.364.4602

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

DATE	REVISION
	AUG. 2021

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

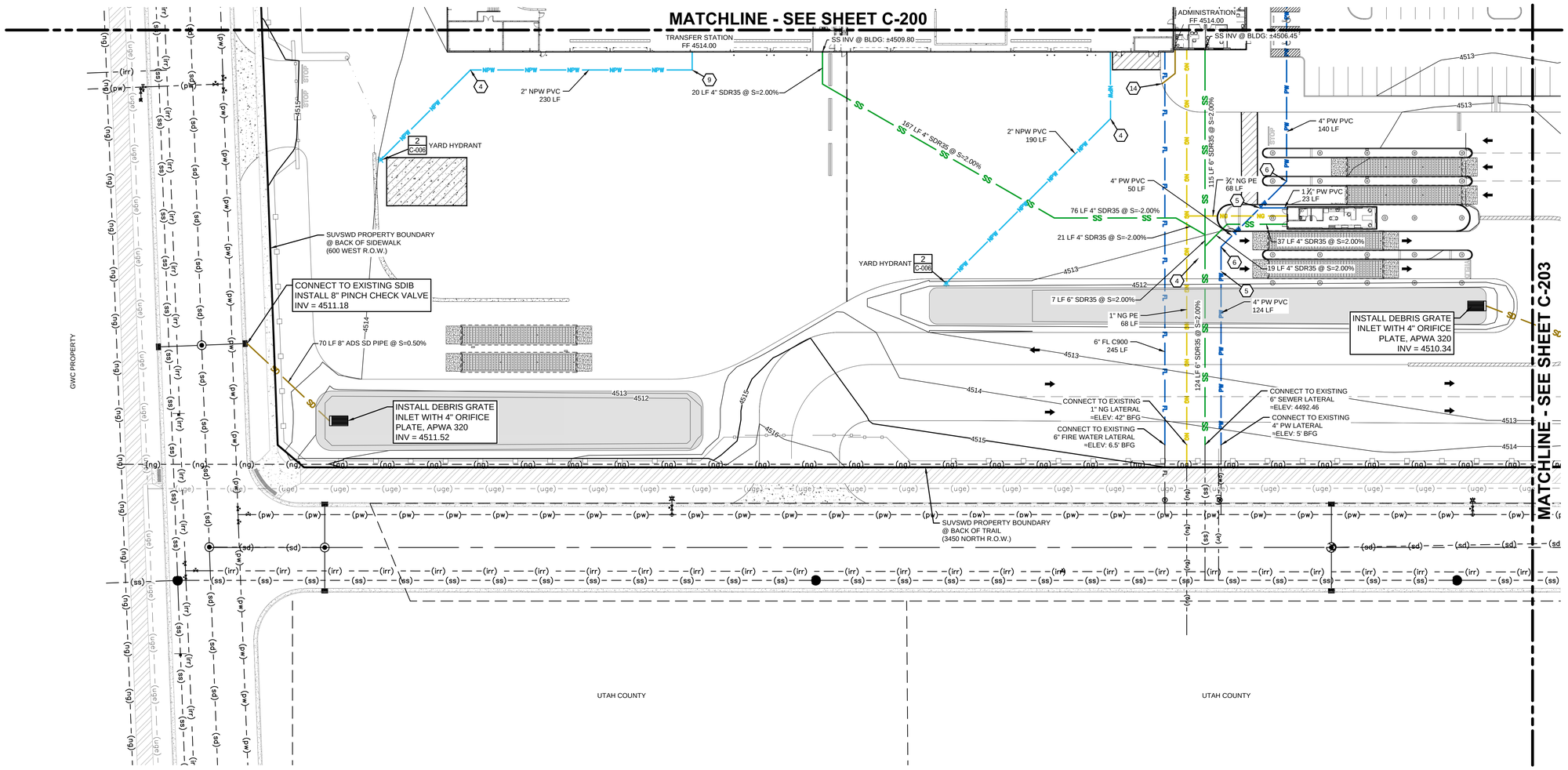
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AREA 2 - YARD PIPING PLAN

C-201

XX OF XX

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NOTES:

1. SEE PIPE SCHEDULE AND ABBREVIATIONS LIST ON SHEET C-000 FOR INFORMATION ON PIPES.
2. MANHOLES ARE 4'-0" DIAMETER UNLESS OTHERWISE NOTED.
3. MAINTAIN 5' OF COVER ON THE POTABLE WATER AND 6.5' OF COVER ON FIRE LINES.
4. 2" PVC 45° BEND, RESTRAINED JOINT.
5. 4" PVC WYE BEND, RESTRAINED JOINT, ADD REDUCERS AS NECESSARY.
6. 4" PVC 45° BEND, RESTRAINED JOINT.
7. 3" PVC 90° BEND, RESTRAINED JOINT.
8. 2" PVC TEE, RESTRAINED JOINT.
9. 2" PVC 90° BEND, RESTRAINED JOINT.
10. MAINTAIN 3' BFG ON NON-POTABLE WATER LINES.
11. PIPE TRENCH PER DETAIL 2/C-008.
12. MAINTAIN WATER LINE VERTICAL AND HORIZONTAL CLEARANCES, SEE DETAIL 1/C-006.
13. INSTALL THRUST BLOCKS ON PRESSURIZED WATER AND IRRIGATION LINES, SEE DETAIL 3/C-005.
14. CONNECT STORM DRAIN PIPE TO ROOF DRAIN AT ELEVATION SHOWN. DAYLIGHT STORM DRAIN PIPE TO ASPHALT DRIVE AREA.

ABBREVIATIONS

SD	STORM DRAIN
SS	SANITARY SEWER
D	PROCESS/LEACHATE DRAIN
PW	POTABLE WATER
NPW	NON-POTABLE WATER
FL	FIRE LINE
NG	NATURAL GAS
PI	PRESSURIZED IRRIGATION
UGE	UNDERGROUND ELECTRIC
INV	INVERT
RD	ROOF DRAIN
BFG	BELOW FINISHED GROUND

GRAPHIC SCALE
0' 15' 30' 60' 90'
Scale: 1"=30'

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4755 FAX: 801.364.4660

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

DATE	REVISION
	AUG. 2021

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

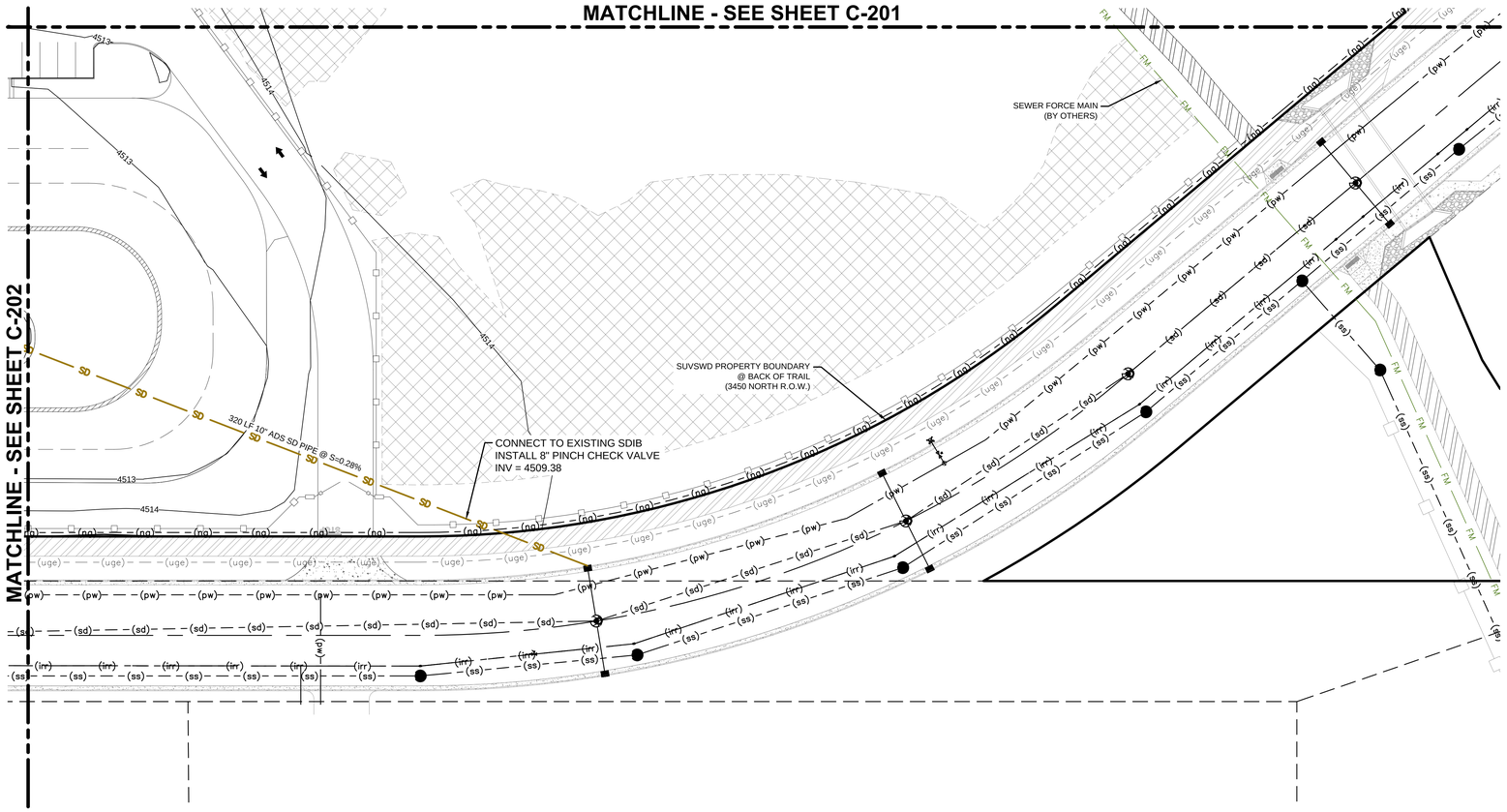
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AREA 3 - YARD PIPING PLAN

C-202

XX OF XX

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NOTES:

1. SEE PIPE SCHEDULE AND ABBREVIATIONS LIST ON SHEET C-000 FOR INFORMATION ON PIPES.
2. MANHOLES ARE 4'-0" DIAMETER UNLESS OTHERWISE NOTED.
3. MAINTAIN 5' OF COVER ON THE POTABLE WATER AND FIRE LINES.

ABBREVIATIONS

SD	STORM DRAIN
SS	SANITARY SEWER
D	PROCESS/LEACHATE DRAIN
PW	POTABLE WATER
FL	FIRE LINE
NG	NATURAL GAS
PI	PRESSURIZED IRRIGATION
UGE	UNDERGROUND ELECTRIC
INV	INVERT
RD	ROOF DRAIN

N

GRAPHIC SCALE

0' 15' 30' 60' 90'

Scale: 1"=30'

100% DESIGN

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577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
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PH: (801) 364-4052
FAX: 801.364.4052

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PROJECT STATUS

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LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

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AREA 4 - YARD PIPING PLAN

C-203

XX OF XX

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FORSGREN Associates Inc.

PREPARED FOR:	Spanish Fork City
PREPARED BY:	Nick Patterson, PE
DATE:	March 2, 2022
SUBJECT:	SUVSWD ERF – Site Plan Comment Resolution



Spanish Fork Engineering Comments

- Call out thrust blocks and other items as following City standards, not APWA. They are similar in most situations, but with some modifications.
    - Adjustments to plans are made to reflect this requirement. See drawing C-002 & C-005, attached.

- Can you explain what the non-potable line is? How does it go from potable to non-potable? Is it reused water? Give Paul Taylor a call with the Water Division 801-804-4458.
    - These are potable lines as they enter the administration building and then split off with their own backflow preventer at the main water entry. This pipe serves hose bibs and yard hydrants that do not have their own backflow protection so the piping between them and the backflow preventer is non-potable. The backflow preventer is there to protect the potable water source. See detail 2/C-006 and detail 4/P-504 for clarity.

- Follow City Standards for oil/sand separator. Contact Sewer Division with questions.
    - Plans are updated to reflect this comment. See updated sheet P-504, attached. Additionally, a sampling manhole has been included downstream of each oil/sand separator per SFC requirements, see updated sheet C-200.

- Follow storm drain standard drawing (SD-411) with waterman gate for your storm drain basins that have an above-ground component.
    - Drainage basin outflows are updated to include a waterman gate, see sheet C-202.

- Follow W-215 in our Construction Standards for the 4" water meter.
    - See updated offsite plan sheet U-015, attached.

- Give me a call to discuss the pumping manhole for storm drain. We will likely want an overflow pipe in that manhole so if it backs up high enough then a gravity line can convey the water.
    - 12” gravity overflow pipe is added to the pumping manhole. See updated drawing C-009, attached.

- Long term stormwater management plan will be required. Contact James Darling 801-804-4570 with questions.
    - A long-term stormwater management plan will be submitted with corrected plans. We will use the template provided by Spanish Fork City.

- Provide redline response memo detailing how each redline was met.
    - Noted

- Sewer cleanouts required every 75 feet and at bends.
    - Cleanouts are added to all sewer/drainpipe bends and straight runs over 75 feet in length to meet this requirement, see updates sheet C-200 and C-202.

- Sewer Division is concerned about H2S. Apparently Springville has had issues with it at the current transfer station. Advanced Lining does a polyurea lining that has worked well for us.
    - I have spoken with Cory Pierce about this comment. He has recommended that SUVSWD consider lining the sewer manholes onsite but does not believe he can require them to include this in their construction. Sewer infrastructure on the transfer station site is the responsible of SUVSWD for maintaining a functioning system. If future sewer sampling from the transfer station presents the need for a pretreatment program than that will be addressed at a later date.

- Show City valve for fire line on the main tee, not behind curb. Show PIV location as well.
    - See updated offsite plan sheets U-011 and U-014, attached.
    - No PIV is included in this design. Fire consultant has followed NFPA24 guidelines and included control valves in a fire-rated room accessible from the exterior of each riser room in lieu of a PIV.

6.1.1.3.1 For new installations, where more than one nonindicating underground gate valve is installed in a water system, all underground gate valves shall be of the same opening direction.

6.1.1.4* A nonlisted, nonindicating valve, including a T-wrench as part of a tapping assembly, shall be permitted.

located a safe distance outside buildings.

6.2.8* All control valves shall be located where accessible and free of obstructions.

6.2.9 All connections to private fire service mains for fire protection systems shall be arranged in accordance with one of the following so that they can be isolated:

2016 Edition

(1)*A post indicator valve installed not less than 40 ft (12 m) from the building
   (a) For buildings less than 40 ft (12 m) in height, a post indicator valve shall be permitted to be installed closer than 40 ft (12 m) but at least as far from the building as the height of the wall facing the post indicator valve.
(2) A wall post indicator valve
(3) An indicating valve in a pit, installed in accordance with Section 6.4
(4)*A backflow preventer with at least one indicating valve not less than 40 ft (12 m) from the building
   (a) For buildings less than 40 ft (12 m) in height, a backflow preventer with at least one indicating valve shall be permitted to be installed closer than 40 ft (12 m) but at least as far from the building as the height of the wall facing the backflow preventer.
(5)*A nonindicating valve, such as an underground gate valve with an approved roadway box, complete with T-wrench, located not less than 40 ft (12 m) from the building
   (a) For buildings less than 40 ft (12 m) in height, a nonindicating valve, such as an underground gate valve with an approved roadway box, complete with T-wrench, shall be permitted to be installed closer than 40 ft (12 m) but at least as far from the building as the height of the wall facing the non-indicating valve.
(6) Control valves installed in a fire-rated room accessible from the exterior
(7) Control valves in a fire-rated stair enclosure accessible from the exterior as permitted by the AHJ

6.3 Post Indicator Valves.

6.3.1 Where post indicator valves are used, they shall be set so that the top of each post is 32 in. to 40 in. (800 mm to 1.0 m) above the final grade.

6.3.2 Where post indicator valves are used, they shall be protected against mechanical damage where needed.

6.4.4 The location of the valve shall be marked, and the cover of the pit shall be kept free of obstructions.

6.5 Backflow Prevention Assemblies.

6.5.1 Where used in accordance with 6.2.9(4), backflow prevention assemblies shall be installed in accordance with their installation instructions.

6.5.2 Backflow prevention assemblies shall be protected against mechanical damage and freezing where the potential exists.

6.6 Sectional Valves.

6.6.1* Sectional valves shall be provided at appropriate locations within piping sections such that the number of fire protection connections between sectional valves does not exceed six.

6.6.2 A sectional valve shall be provided at the following locations:

(1) On each bank of a river, pond, or lake where a main crosses water
(2) Outside the building foundation(s) where a main or a section of a main is installed under a building

6.7 Identifying and Securing Valves.

6.7.1 Identification signs shall be provided at each valve to indicate the valve's function and the part of the system the valve controls.

6.7.1.1 Identification signs in 6.7.1 shall not be required for underground gate valves with roadway boxes.

6.7.2* Control valves shall be supervised by one of the following methods:

(1) Central station, proprietary, or remote station signaling service
(2) Local signaling service that causes the sounding of an audible signal at a constantly attended location
(3) An approved procedure to ensure that valves are locked in the correct position

- Show PI meter. There will need to be some separation because of how big the water vault for the 4" will be.
    - PI meter is called out on the updated offsite improvements sheets and the lateral has been moved to the east 10’ for separation from the 4” water main. See updated sheet U-015, attached.

- We are worried about the StormBrixx filling with water given the high-water table. What solutions are you proposing?
    - The geotechnical report shows the water table in the area at 9’ where the StormBrixx units will be constructed. We recognize that seasonally the water table may be higher, especially during wet years. In times when the water table is high, we have the ability to pump the water out of the storage area. Additionally, a gravity overflow pipe has been added to the system in case of the StormBrixx being full and the pump unable to keep up with stormwater. See updated drawing C-009, attached.

- Why is a check valve needed for the storm drain basin? It seems like it all flows out to the storm drainpipe.
    - Pinch valves are removed from the construction plans, see updated sheet C-202.

GENERAL NOTES

1. ANY MODIFICATION TO THIS CONSTRUCTION PACKAGE SHALL BE APPROVED BY THE ENGINEER. PRIOR TO SAID APPROVAL, ALL IMPROVEMENT DRAWINGS SHALL BE UPDATED AT THE CONTRACTOR'S EXPENSE, RESUBMITTED, AND APPROVED BY THE ENGINEER UNLESS NOTED OTHERWISE.
2. PROJECT SHALL BE CONSTRUCTED TO SPANISH FORK CITY STDS, APWA STDS, AND TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS IN THE PROJECT MANUAL. IN THE EVENT OF A CONFLICT, THE MOST STRINGENT SPECIFICATION WILL APPLY.
3. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL INDEMNIFY, AND HOLD THE OWNER, ARCHITECT, ENGINEER, AND SUB-CONSULTANTS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER, ARCHITECT, ENGINEER, OR SUB-CONSULTANTS
4. UTILITIES SHOWN ON THE PROJECT PLANS ARE APPROXIMATE. CONTRACTOR SHALL NOTIFY BLUE STAKES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
5. THE CONTRACTOR SHALL LOCATE, RETAIN AND PROTECT ALL EXISTING UTILITIES UNLESS OTHERWISE DIRECTED BY THE OWNER AND AS SHOWN ON THE PROJECT PLANS. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL UTILITY CONFLICTS UPON DISCOVERY.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR OR REPLACEMENTS OF ANY DAMAGE TO ADJACENT SURFACE IMPROVEMENTS IMPACTED BY CONSTRUCTION.
7. CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY TRENCH SETTLEMENT OR DAMAGE TO EXISTING UTILITIES.
8. EXISTING UTILITY SERVICE SHALL BE MAINTAINED THROUGH CONSTRUCTION PROCESS. IF A UTILITY SERVICE IS GOING TO BE INTERRUPTED, ALL AFFECTED PROPERTY OWNERS ARE TO BE NOTIFIED IN WRITING BY THE CONTRACTOR 72 HOURS BEFORE THE DISRUPTION.
9. RECORD DRAWINGS ARE TO BE PROVIDED TO THE OWNER IN ELECTRONIC AND PRINTED FORMATS PRIOR TO FINAL PAYMENT. AS PART OF THE RECORD DRAWINGS, THE CONTRACTOR SHALL USE A SURVEY GRADE GPS DEVICE TO RECORD THE LOCATION OF DISCOVERED AND INSTALLED UTILITY LINES. THE SURVEY SHALL BE PERFORMED AS LINES ARE FOUND AND LINES ARE INSTALLED AND SHALL BE DONE PRIOR TO THE LINE BEING COVERED. LINE NOT MEASURED WILL BE UNCOVERED, RE-BACKFILLED, AND RE-PAVED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. THE SURVEY INFORMATION SHALL INCLUDE ALL FOUND AND INSTALLED WATER LINE BENDS, ELBOWS, AND VALVES, SEWER MANHOLES, STORM DRAIN CATCH BASINS AND INLET BOXES, COMMUNICATION LINES, ELECTRICAL LINES, AND OTHER FOUND OR INSTALLED UTILITY LINES. THE SURVEY WILL SHOW THE ELEVATION AND DESCRIPTION OF THE UTILITY. THE SURVEY WILL BE TIED TO THE SITE HORIZONTAL AND VERTICAL CONTROL. LINES SHALL BE SURVEYED AS THEY ARE BEING BACKFILLED.
10. ALL WORK MUST BE SUBSTANTIALLY COMPLETE PRIOR TO THE DATE STATED IN THE CONTRACT. THE CONTRACTOR SHALL PROVIDE MULTIPLE CREWS, WORK MULTIPLE SHIFTS, ETC. AS NEEDED TO GET WORK SUBSTANTIALLY COMPLETE BY THE DEADLINE. SUBSTANTIALLY COMPLETE INCLUDES BUT IS NOT LIMITED TO ALL EXCAVATION, FILL, BACKFILL, PAVING, PAINTING, STRIPING, AND CONCRETE WORK COMPLETED AND READY FOR OWNER'S USE.
11. STOCKPILES SHALL BE GRADED TO MAINTAIN SLOPES NOT GREATER THAN 3:1 HORIZONTAL TO VERTICAL OR AS INDICTED IN THE GEOTECHNICAL REPORT PROVIDED FOR THIS PROJECT. PROVIDE EROSION CONTROL AS NEEDED TO PREVENT SEDIMENT TRANSPORT TO ADJACENT DRAINAGE WAYS.
12. INSTALL TRAFFIC WARNING DEVICES AS NEEDED IN ACCORDANCE WITH LOCAL STANDARDS TO KEEP UNAUTHORIZED TRAFFIC OUT OF THE CONSTRUCTION AREA. THE CONTRACTOR SHALL MAINTAIN AN ACCESS ROUTE THROUGH THE SITE FOR FIREFIGHTING AND OTHER EMERGENCY EQUIPMENT.
13. CONTRACTOR SHALL OBTAIN ALL PERMITS NECESSARY FOR CONSTRUCTION AND DEMOLITION FROM CITY, COUNTY, STATE, AND OR FEDERAL AGENCIES AS REQUIRED.
14. STREETS SHALL BE KEPT CLEAN TO THE SATISFACTION OF THE ENGINEER AND OWNER.

UTILITY NOTES

1. VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTING ANY NEW UTILITY LINES. NOTIFY OWNER AND CIVIL ENGINEER OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO ANY CONNECTIONS BEING MADE.
2. ALL CATCH BASIN AND INLET BOX GRATES ARE TO BE BICYCLE SAFE. INLET BOXES AND CATCH BASINS MAY BE CAST IN PLACE OR PRECAST. ALL INLET BOXES ARE TO ALIGN WITH THE ADJACENT CURB AND GUTTER. MISALIGNED OR OFFSET INLET BOXES ARE TO BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
3. REFER TO SITE ELECTRICAL PLANS FOR DETAIL AND LOCATION OF ELECTRICAL LINES, LIGHT POLES, SWITCHGEAR, TRANSFORMERS, AND OTHER ELECTRICAL EQUIPMENT.
4. GAS LINES, TELEPHONE LINES, AND COMMUNICATION LINES ARE NOT PART OF THESE PLANS UNLESS NOTED OTHERWISE.
5. WATER LINES, VALVES, FIRE HYDRANTS, FITTINGS, ETC. ARE TO BE CONSTRUCTED AS INDICATED. THE CONTRACTOR IS RESPONSIBLE TO CONSTRUCT ANY VERTICAL ADJUSTMENTS NECESSARY TO CLEAR SEWER, STORM DRAIN, CONDUIT, GAS LINES, COMMUNICATION LINES, WATER LINES, OR OTHER UTILITY LINES AS NECESSARY INCLUDING VALVE BOXES, AND HYDRANT SPOOLS TO FINISH GRADE.
6. TRACER WIRE AND MARKING TAPE ARE REQUIRED ON ALL PIPING MAINS AND LATERALS. TRACER WIRE SHALL BE INSTALLED DIRECTLY ABOVE THE PIPE.
7. PROVIDE THRUST BLOCKS FOR ALL WATER MAIN BENDS PER SPANISH FORK CITY STANDARD DRAWING W-201. ALL THRUST BLOCKS SHALL BE CAST AGAINST UNDISTURBED SOIL. 1
8. ALL PIPING TO BE INSTALLED PER MANUFACTURES RECOMMENDATIONS REFER TO SPECIFICATIONS FOR MORE DETAILED INFORMATION.
9. ALL OPEN TRENCHES SHALL BE COVERED WITH REMOVABLE PLATES DURING NON-WORKING HOURS.
10. CONTRACTOR SHALL MAINTAIN A MINIMUM 10-FOOT HORIZONTAL AND 18-INCH VERTICAL SEPARATION BETWEEN POTABLE WATER LINES AND NON-POTABLE UTILITY PIPING.
11. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH UTILITY OWNER'S SPECIFICATIONS. CONTRACTOR SHALL COORDINATE ALL SUCH WORK WITH UTILITY OWNER.
12. CONTRACTOR SHALL NOT ALLOW ANY GROUNDWATER OR DEBRIS TO ENTER NEW PIPES DURING CONSTRUCTION.
13. CONTRACTOR SHALL PROVIDE DEWATERING OF GROUNDWATER. PROVIDE TRENCH SHORING AS NECESSARY. REFER TO SPECIFICATION 31 22 40, AND GEOTECHNICAL REPORT.

SITE NOTES

1. DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE. RADIUS DIMENSIONS ARE TO BACK OF CURB. UNLESS OTHERWISE NOTED.
2. ALL SIDEWALKS AND BACK OF CURB SHALL BE GRADED AT 2% CROSS SLOPE OR LESS.
3. CONCRETE SHALL BE 4000 PSI CONCRETE OR GREATER. ALL EXTERIOR CONCRETE SHALL HAVE FIBER MESH INCLUDING SIDEWALKS, PADS, SLABS, RETAINING WALLS, AND CURB & GUTTER.
4. ASPHALT PAVING SHALL BE A MINIMUM OF 3-INCHES THICK UNLESS OTHERWISE NOTED. IF THICKER, THE PAVING SHALL BE DONE IN LIFTS OF UP TO 3-INCHES THICK AND AT LEAST 1.5-INCHES THICK. USE ASPHALT AND GRADATION SPECIFIED IN THE SPECIFICATIONS. COMPACT ASPHALT TO BETWEEN 92% AND 96% OF MAXIMUM DENSITY. AREAS COMPACTED TO MORE THAN 96% SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
5. PROOF ROLL SUBGRADE WITH FULLY LOADED WATER TRUCK OR OTHER SIMILARLY LOADED VEHICLE TO FIND SOFT SPOTS. PROOF ROLLING IS CONSIDERED INCIDENTAL TO THE CONSTRUCTION AND NO ADDITIONAL PAYMENT FOR PROOF ROLLING WILL BE PAID TO THE CONTRACTOR. REMOVE AND REPLACE SOFT SPOTS TO NOT LESS THAN 12-INCHES BELOW SUBGRADE OR DEEPER AS DIRECTED BY THE OWNER AND AS SPECIFIED IN THE SPECIFICATIONS. REPLACE SOFT SPOTS WITH GRANULAR FILL, COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557. SOFT SPOT REMOVAL WILL BE PAID ACCORDING TO THE SPECIFICATIONS.
6. COMPACT ROAD BASE TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 1557.
7. ALL WORK INSIDE OF CITY RIGHT OF WAY TO CONFORM THE PROJECT MANUAL (PLANS AND SPECIFICATIONS).

DEMOLITION NOTES

1. DEMOLITION FOR THE CONTRACT IS TO INCLUDE ALL AREAS SHOWN WITHIN THE DEMOLITION LIMITS OR BY NOTE.
2. REFER TO THE SITE PLAN FOR MORE DETAILS ON CONNECTIONS TO EXISTING FEATURES AND LIMITS OF REMOVAL.
3. SAW CUT ASPHALT IN AREAS INDICATED. FIELD VERIFY SAW CUT LOCATIONS WITH OWNER PRIOR TO CUTTING ASPHALT. SAW CUT IN NEAT, STRAIGHT LINES PRIOR TO EXCAVATION.
4. RETAIN AND PROTECT EXISTING BUILDINGS TO REMAIN INCLUDING ALL FOOTINGS, FOUNDATIONS, AWNINGS, AND OVERHANGS.
5. CLEAR AND GRUB TREES, AND OTHER VEGETATION INCLUDING ROOT BALLS, AND ROOTS FOR AREAS INSIDE THE DEMOLITION LIMITS UNLESS OTHERWISE NOTED.
6. DO NOT INTERRUPT THE SERVICES OR DISRUPT THE OPERATION OF ANY BUSINESS OR OWNER FUNCTIONS OUTSIDE OF THE DEMOLITION LIMITS.
7. REMOVE DEBRIS, RUBBISH, AND OTHER MATERIALS RESULTING FROM THE DEMOLITION AND SITE CLEARING OPERATIONS FROM THE SITE AND DISPOSE OF IN A LEGAL MANNER UNLESS DIRECTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL WASTE MATERIAL. DISPOSAL SHALL BE AT AN APPROVED SITE FOR SUCH MATERIAL. BURNING OR BURYING OF WASTE MATERIAL ONSITE IS NOT PERMITTED.
8. FILL HOLES CREATED FROM DEMOLITION WITH ENGINEERED FILL COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D 1557 UNLESS ADDITIONAL EXCAVATION IS PART OF THE CONSTRUCTION PROJECT.
9. ALL STREET DEMOLITION AND CONSTRUCTION (OUTSIDE OF THE PROPERTY LINE) SHALL BE IN STRICT COMPLIANCE WITH CITY REQUIREMENTS. SITE DEMOLITION AND CONSTRUCTION INSIDE OF THE PROPERTY LINE SHALL BE IN STRICT COMPLIANCE WITH PROJECT MANUAL REQUIREMENTS.
10. NATIVE SOILS ARE NOT ACCEPTABLE FOR SITE FILL UNLESS NOTED OTHERWISE ON THE PROJECT PLANS AND THE GEOTECHNICAL REPORT.

GRADING NOTES

1. ALL WORK IN STREET SHALL BE IN ACCORDANCE WITH THE CITY STANDARDS.
2. ALL CUT AND FILL SLOPES SHALL BE ACCORDING TO OSHA REQUIREMENTS.
3. FILLS SHALL BE COMPACTED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT PREPARED FOR THIS PROJECT. THE REPORT IS TITLED "PROPSED SUVSWD TRANSFER STATION" BY KLEINFELDER.
4. AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED BY THE INSPECTOR AND GEOTECHNICAL ENGINEER PRIOR TO PLACING FILL.
5. FILLS SHALL BE BENCHED INTO COMPETENT MATERIAL AS PER THE SPECIFICATIONS AND GEOTECHNICAL REPORT.
6. ALL TRENCH BACKFILL SHALL BE TESTED AND CERTIFIED BY THE INSPECTOR.
7. THE CONTRACTOR SHALL COORDINATE INSPECTIONS & TESTING, AND SUBMIT A COMPLETE REPORT AND MAP UPON COMPLETION OF THE ROUGH GRADING. THE REPORT AND MAP SHALL SHOW AREAS WHERE COMPACTION TESTS HAVE BEEN TAKEN, AND COMPACTION RESULTS.
8. DUST SHALL BE CONTROLLED BY WATERING. DO NOT OVER WATER OR SOFTEN THE SUBGRADE OR CAUSE EROSION DUE TO WATERING.
9. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
10. APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISION MUST BE USED TO PROTECT ADJOINING DRAINAGE AREAS DURING THE CONSTRUCTION OF THE PROJECT. ALL PUBLIC ROADS MUST BE CLEANED DAILY OF ALL DIRT, MUD, AND DEBRIS DEPOSITED AS A RESULT OF THE CONSTRUCTION. THE CLEANING IS TO BE DONE TO THE SATISFACTION OF THE PROJECT MANAGER, OWNER, AND CITY.
11. THE SITE SHALL BE CLEARED OF ALL VEGETATION AND DELETERIOUS MATTER PRIOR TO BEGINNING THE GRADING OPERATION.
12. THE CONTRACTOR SHALL PROVIDE SHORING IN ACCORDANCE WITH OSHA REQUIREMENTS FOR TRENCH WALLS.
13. AGGREGATE BASE AND SUBGRADE SHALL BE COMPACTED AND PREPARED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT FOR THIS PROJECT.
14. AS PART OF THE CONSTRUCTION DOCUMENTS, THE OWNER HAS PROVIDED THE CONTRACTOR WITH A TOPOGRAPHIC SURVEY PERFORMED BY MANUAL OR AERIAL MEANS. SAID SURVEY WAS PREPARED FOR PROJECT DESIGN PURPOSES AND IS PROVIDED TO THE CONTRACTOR AS A COURTESY. IT IS EXPRESSLY UNDERSTOOD THAT SUCH SURVEY MAY NOT ACCURATELY REFLECT EXISTING TOPOGRAPHICAL CONDITIONS.
15. EROSION CONTROL; PROTECT ALL INLET BOXES, CATCH BASINS, STORM DRAIN MANHOLES, DRAINAGE DITCHES, AND WATERWAYS WITH APPROVED SWPPP PROTECTION TO STRAIN THE STORM WATER DURING CONSTRUCTION. PROTECT ALSO FROM ILLICIT WATER DISCHARGES. PROTECT SURROUNDING PROPERTIES AND STREETS FROM SITE RUNOFF WITH SANDBAGS, EARTH BERMS, AND SILT FENCES. REFER TO THE SWPPP FOR ADDITIONAL INFORMATION.
16. THE CONTRACTOR SHALL COMPLETE A SWPPP BASED ON THE LATEST UTAH DEQ APPROVED TEMPLATE AND FILE FOR A NOTICE OF INTENT (NOI), PAY THE FEE FOR COVERAGE. AFTER CONSTRUCTION IS SUBSTANTIALLY COMPLETE, THE SITE HAS BEEN STABILIZED, AND POST CONSTRUCTION BMPS HAVE BEEN INSTALLED, THE CONTRACTOR SHALL FILE A NOTICE OF TERMINATION WITH UTAH DEQ PRIOR TO RECEIVING FINAL PAYMENT FOR THIS PROJECT.

PROJECT CONTACTS

1. COORDINATE WITH SUVSWD DISTRICT
   ENGINEER NICK PATTERSON 1-801-592-4479
2. COORDINATE ANY UTILITY WORK WITH UTILITY COMPANY(S)

   DOMINION ENERGY 1-800-323-5517
   DOMINION ENERGY EMERGENCY 1-800-767-1689

   CENTURY LINK 1-877-803-8414

   ROCKY MOUNTAIN POWER 1-888-221-7070
   ROCKY MOUNTAIN POWER EMERGENCY 1-877-505-5088

   BLUE STAKES OF UTAH 1-800-662-4111

SURVEY DATUM

HORIZONTAL DATUM
UTAH STATE PLANE COORDINATES
NAD83 DATUM, UTAH CENTRAL ZONE, US FOOT

VERTICAL DATUM
NAVD88 DATUM

BASE POINT AND BENCHMARK
ELEV=4504.02
N: 7226634.24 E: 1597060.89

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4765 FAX: 801.364.4660

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

	DATE	REVISION
1	08/21	BID SET
2	02/22	REVISION 1

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

VIEW AND PRINT THIS SHEET IN COLOR

CIVIL GENERAL NOTES

C-002

XX OF XX

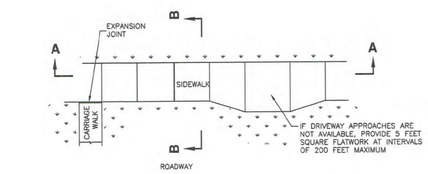
P:\2019\05-19-0115 South Utah Valley Solid Waste District\CAD\Onsite\CAD\SHEETS\General\05-19-0115_XX C-002.dwg - ---- - 2/24/2022 8:35 AM

Sidewalk

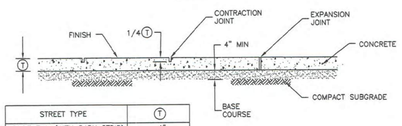
1. **GENERAL**
   A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
   B. Additional requirements are specified in APWA Section 32 16 13.

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. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
   C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
   D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

3. **EXECUTION**
   A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Concrete Placement: APWA Section 03 30 10.
      1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
      2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness (in inches).
      3) Provide 1/2-inch radius edges. Apply a brocm finish. Apply a curing agent.



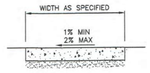
PLAN



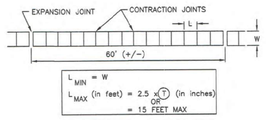
STREET TYPE	T
RESIDENTIAL (WITH PARK STRIP)	4"
RESIDENTIAL (NO PARK STRIP)	6"
OTHER	
REPLACING EXISTING SIDEWALK	MATCH EXISTING (4" MIN.)

SEE DRIVEWAY APPROACH PLANS FOR SIDEWALK THICKNESS AT DRIVEWAYS

SECTION A-A



SECTION B-B



SIDEWALK JOINT DETAIL

APWA Utah Chapter

Sidewalk

Plan 231 March 2009

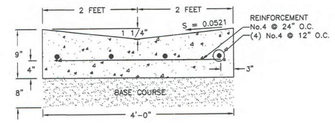
CONCRETE SIDEWALK APWA
SCALE: N.T.S. 1

Waterway

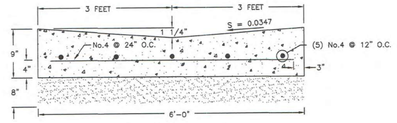
1. **GENERAL**
   A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion.
   B. Unless indicated otherwise, width of waterway as follows.
      1) 4 feet for a residential street.
      2) 6 feet for a non-residential street.
      3) If wider than 6 feet, offset the flow line in the waterway to match (line up with) the curb and gutter flow line. Adjust cross slopes to match existing slopes.
   C. Additional requirements are specified in APWA Section 32 16 13.

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. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73.
   C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
   D. Reinforcement: Galvanized or epoxy coated, deformed, 60 ksi yield grade steel, ASTM A615.
   E. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

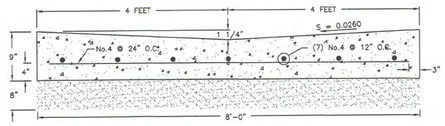
3. **EXECUTION**
   A. Base Course Placement: APWA Section 32 05 10. Thickness is 6-inches if flow-line grade is 0.5 percent (s=0.005) or greater. If slope is less, provide 8-inches. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
   B. Concrete Placement: APWA Section 03 30 10.
      1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface. Expansion joints are not required in concrete placement using slip-form construction.
      2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Match joint location in adjacent Portland-cement concrete roadway pavement.
      3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.
   C. Protection and Repair: Protect concrete from deicing chemicals during cure. Repair construction that does not drain. If necessary, fill flow-line with water to verify.



4'-0" WATERWAY
CONCRETE AREA = 2.583 SQ. FT.



6'-0" WATERWAY
CONCRETE AREA = 3.875 SQ. FT.



8'-0" WATERWAY
CONCRETE AREA = 5.166 SQ. FT.

APWA Utah Chapter

Waterway

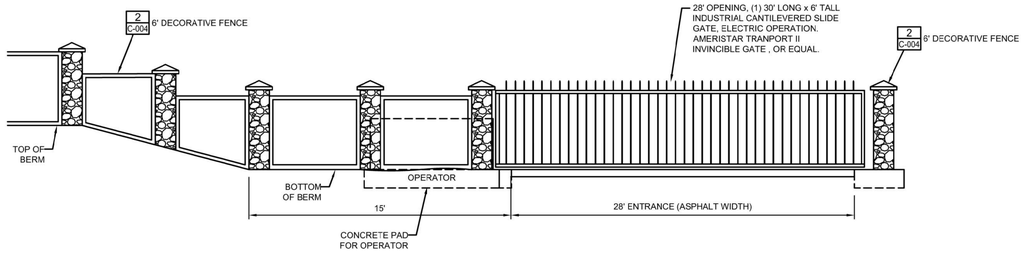
Plan 211 July 2011

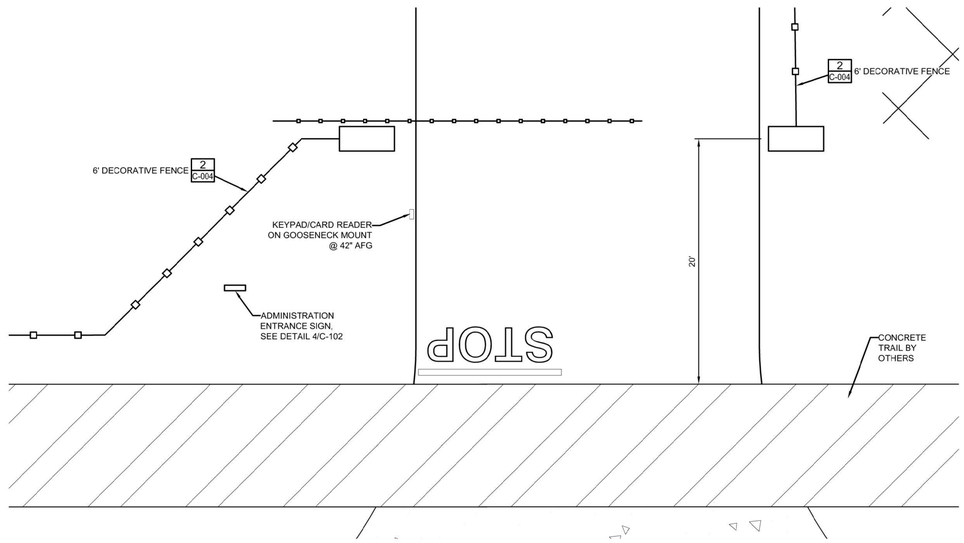
4' WATERWAY APWA
SCALE: N.T.S. 2

USE SPANISH FORK CITY STANDARD DRAWING W-201

2

THRUST BLOCK
SCALE: N.T.S. SPEC # 03 20 00 3





ADMIN ENTRANCE GATE SECTION
SCALE: 1" = 5' 4

1

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: (801) 364-5483
FAX: 801 364 4662

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

Δ	DATE	REVISION
0	08/21	BID SET
1	01/22	ADDENDUM 1
2	02/22	REVISION 1

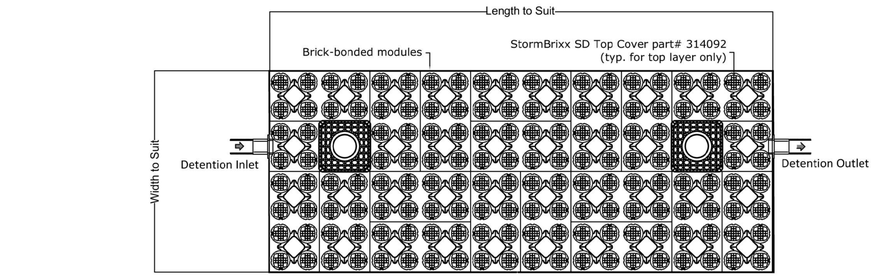
LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

VIEW AND PRINT THIS SHEET IN COLOR

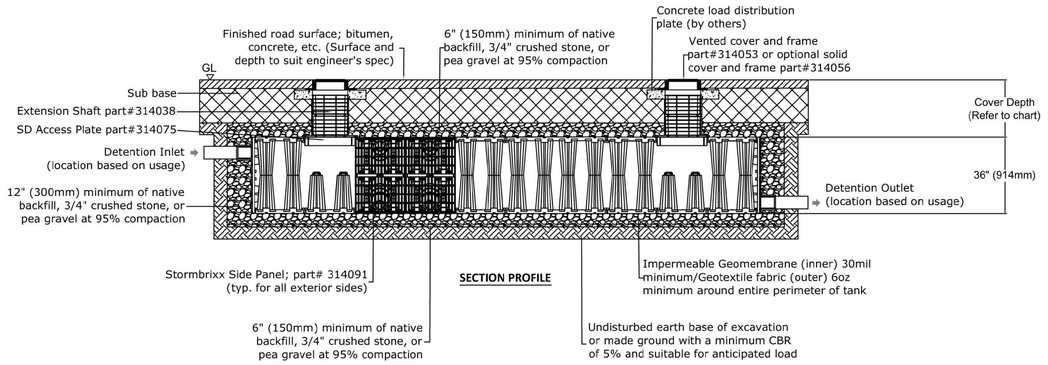
CIVIL DETAILS

C-005
XX OF XX

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PLAN



SECTION PROFILE

Installation depths of ACO StormBrixx SD

Installation Location	Minimum cover depth(4) ft (m)
Non-trafficked areas i.e. landscaping (2)	1.65 (0.5)
Parking lots, vehicles up to 5,512lbs gross mass (1)	1.8 (0.55)
Parking lots, occasional vehicles greater than 5,512lbs gross mass (3)	2.0 (0.6)
Occasional heavy truck traffic up to HS-20 loading	Please consult with ACO
Maximum cover depth of ACO StormBrixx SD	6.5 (2)
Maximum depth to invert of ACO StormBrixx SD one layer system	9.56 (2.9)

Notes

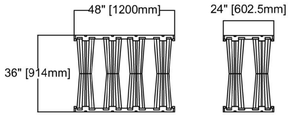
(1) Assumes 27 degree load distribution through fill material and overlaying surface asphalt or block paving

(2) Minimum cover depth to avoid accidental damage from gardening/landscaping work

(3) Occasional sanitation trucks or similar vehicles (typically one per week)

(4) Please check minimum frost cover depths and water table heights for geographical location

ACO StormBrixx SD Module
48"x24"x36" [1200x602.5x914mm (H)]
22.54cuft net volume per completed module
Brick or Cross Bonded (where applicable)
part# 314090



*All systems must be designed and installed to meet or exceed ACO StormBrixx minimum requirements. Although ACO StormBrixx offers support during the design, review, and construction phases of the module system, it is the ultimate responsibility of the Engineer of Record to design the system in full compliance with all applicable engineering practices, laws, and regulations.

D-SD-1L-DVT
DATE 07/18/2019
ISSUE: D

DETENTION - STORMBRIXX SD ONE LAYER WITH ACCESS PLATES

INSTALLATION DRAWING - ACO STORMBRIXX SD

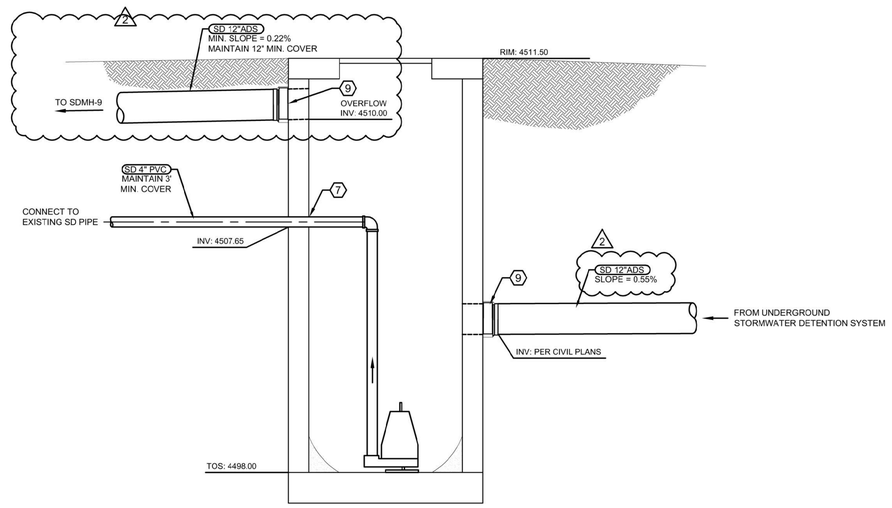
ACO, Inc.

825 W. Beechcraft St
Casa Grande, AZ 85122
Tel: 520-421-9988
Fax: 520-421-9899

9470 Pinecone Drive
Mentor, OH 44060
Tel: 440-639-7230
Fax: 440-639-7235

4211 Pleasant Rd.
Fort Mill, SC 29708
Tel: 440-639-7230
Fax: 803-802-1063

STORMBRIXX DETENTION DETAIL
SCALE: N.T.S. — 1



CONSTRUCTION NOTES : (X)

1. PREMANUFACTURED PUMP STATION. SEE SPECIFICATION 44 11 07.
2. COORDINATE WITH MANUFACTURER FOR CORRECT LOCATION, ELEVATION, CLEARANCES, & INSTALLATION OF EQUIPMENT. U.N.O.
3. MECHANICAL COUPLING OR PIPE SLEEVE, CONTRACTOR SHALL SIZE ACCORDINGLY.
4. CONTRACTOR SHALL COORDINATE WITH PUMP MANUFACTURER FOR INSTALLATION AND ANCHORING OF PUMP.
5. CONTRACTOR SHALL COORDINATE REDUCER SIZES WITH EQUIPMENT MANUFACTURERS, AS NEEDED.
6. CONTRACTOR SHALL SUPPORT PIPES AS NECESSARY.
7. GROUT AND SEAL PIPE PENETRATIONS.
8. CONTRACTOR SHALL ADD GROUTED HOPPER WALLS AT 2:1 TO REMOVE CORNERS.
9. RUBBER BOOTED CONNECTOR, USE NPC KOR-N-SEAL OR EQUIVALENT.

STORM DRAIN PUMP STATION
SCALE: N.T.S. — 2

1

2

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4765 FAX: 801.364.4662

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

Δ	DATE	REVISION
0	08/21	BID SET
1	01/22	ADDENDUM 1
2	02/22	REVISION 1

LICENSED PROFESSIONAL ENGINEER
NO. 10286921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

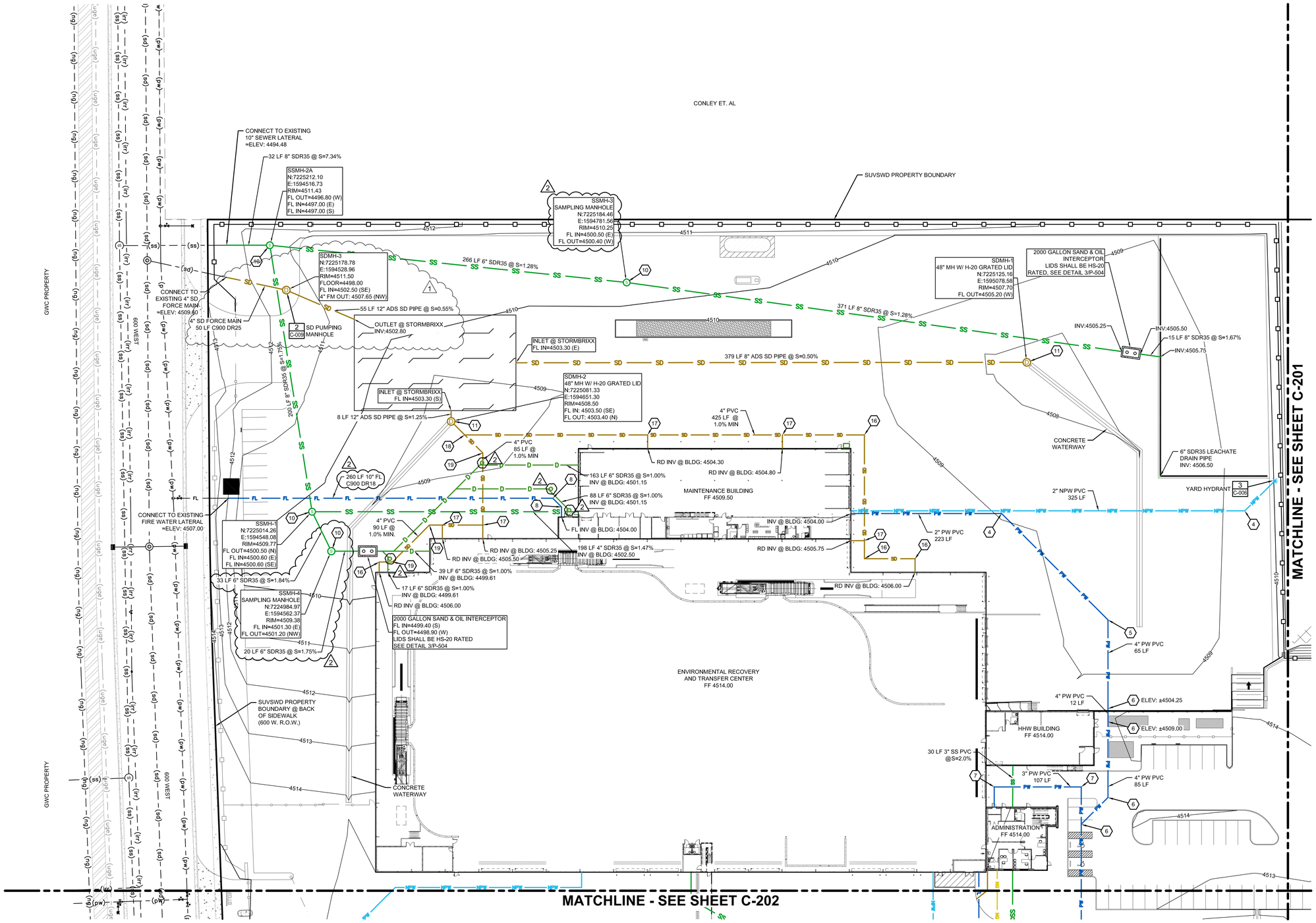
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CIVIL DETAILS

C-009
XX OF XX

100% DESIGN

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KEYNOTES:

1. SEE PIPE SCHEDULE AND ABBREVIATIONS LIST ON SHEET C-000 FOR INFORMATION ON PIPES.
2. MANHOLES ARE 4'-0" DIAMETER UNLESS OTHERWISE NOTED.
3. MAINTAIN 5' OF COVER ON THE POTABLE WATER AND FIRE LINES.
4. 2" PVC 45° BEND, RESTRAINED JOINT.
5. 4" PVC WYE BEND, RESTRAINED JOINT, ADD REDUCERS AS NECESSARY.
6. 4" PVC 45° BEND, RESTRAINED JOINT.
7. 3" PVC 90° BEND, RESTRAINED JOINT.
8. 10" PVC 45° BEND, RESTRAINED JOINT.
9. MAINTAIN 3' BFG ON THE NON-POTABLE WATER.
10. 48" SANITARY SEWER MANHOLE, PER APWA SPECIFICATION 411, SEE DETAIL 5/C-006.
11. 48" STORM DRAIN MANHOLE WITH H-20 GRATED LID, PER APWA SPECIFICATION 341.1, SEE DETAIL 3/C-004.
12. PIPE TRENCH PER DETAIL 2/C-008.
13. MAINTAIN WATER LINE VERTICAL AND HORIZONTAL CLEARANCES, SEE DETAIL 1/C-006.
14. INSTALL THRUST BLOCKS ON ALL PRESSURIZED WATER AND IRRIGATION BENDS AND TEES PER SPANISH FORK CITY STANDARDS, SEE DETAIL 3/C-005.
15. CONNECT STORM DRAIN PIPE TO ROOF DRAIN AT ELEVATION SHOWN. PROVIDE 10 LF OF 4" PVC LATERAL TO 4" SD COLLECTION LINE, TYPICAL OF 7.
16. 4" PVC 90° BEND.
17. 4" PVC TEE.
18. 4" PVC WYE BEND.
19. 4" PVC 45° BEND.
20. FURNISH AND INSTALL SEWER/DRAIN CLEANOUTS EVERY 75 FEET AND AT BENDS ON SEWER AND/OR DRAIN LINES PER DETAIL 3/P-501.

ABBREVIATIONS

SD	STORM DRAIN
SS	SANITARY SEWER
D	PROCESS/LEACHATE DRAIN
PW	POTABLE WATER
NPW	NON-POTABLE WATER
FL	FIRE LINE
NG	NATURAL GAS
PI	PRESSURIZED IRRIGATION
UGE	UNDERGROUND ELECTRIC
INV	INVERT
RD	ROOF DRAIN
BFG	BELOW FINISHED GRADE
COTG	CLEANOUT TO GRADE

GRAPHIC SCALE
0' 15' 30' 60' 90'
Scale: 1"=30'

100% DESIGN

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577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4755 FAX: 801.364.4662

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660
FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

	DATE	REVISION
0	08/21	BID SET
1	01/22	ADDENDUM 1
2	02/22	REVISION 1

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

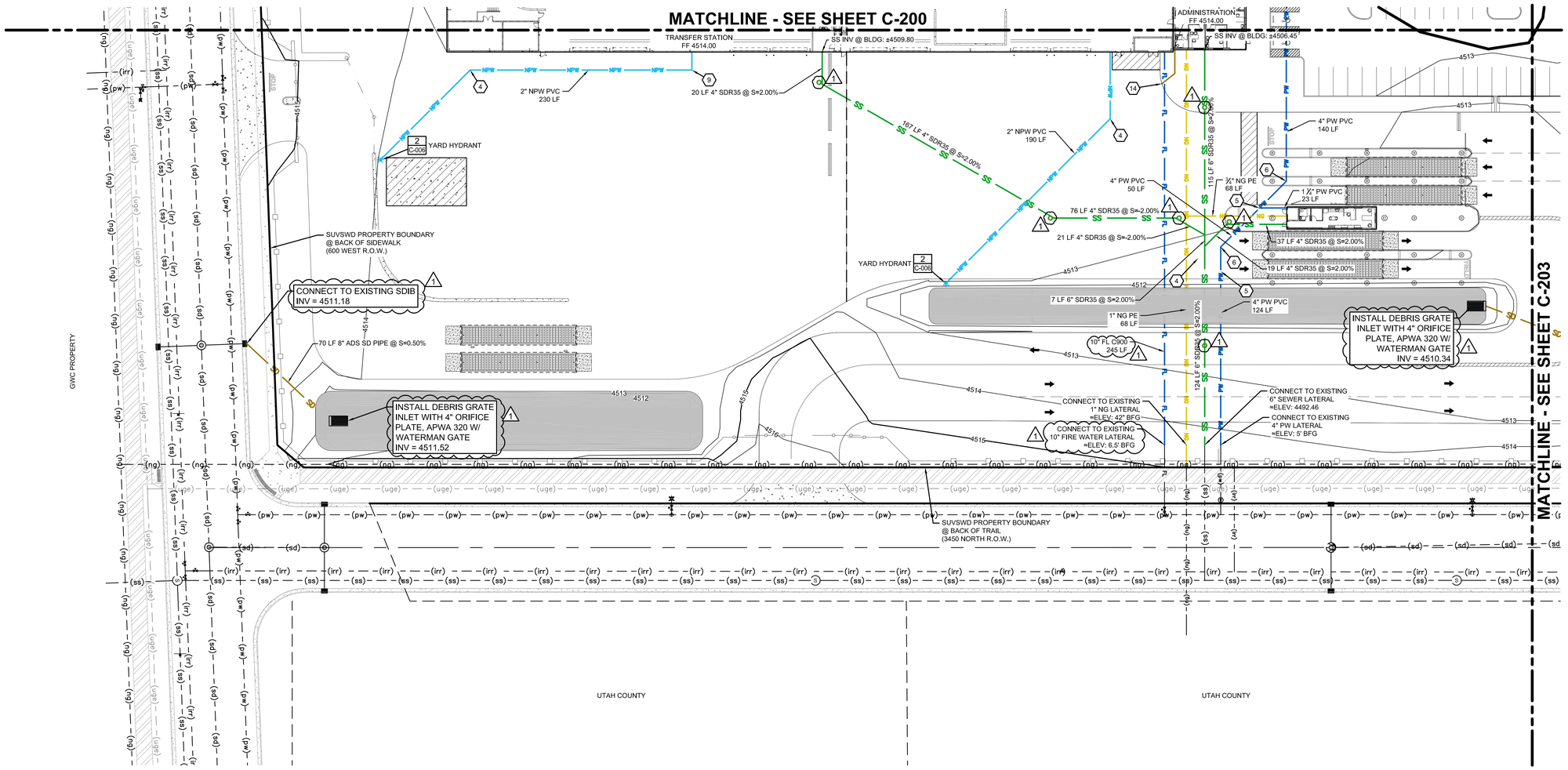
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AREA 1 - YARD PIPING PLAN

C-200

XX OF XX

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NOTES:

1. SEE PIPE SCHEDULE AND ABBREVIATIONS LIST ON SHEET C-000 FOR INFORMATION ON PIPES.
2. MANHOLES ARE 4'-0" DIAMETER UNLESS OTHERWISE NOTED.
3. MAINTAIN 5' OF COVER ON THE POTABLE WATER AND 6.5' OF COVER ON FIRE LINES.
4. 2" PVC 45° BEND, RESTRAINED JOINT.
5. 4" PVC WYE BEND, RESTRAINED JOINT, ADD REDUCERS AS NECESSARY.
6. 4" PVC 45° BEND, RESTRAINED JOINT.
7. 3" PVC 90° BEND, RESTRAINED JOINT.
8. 2" PVC TEE, RESTRAINED JOINT.
9. 2" PVC 90° BEND, RESTRAINED JOINT.
10. MAINTAIN 3' BFG ON NON-POTABLE WATER LINES.
11. PIPE TRENCH PER DETAIL 2/C-008.
12. MAINTAIN WATER LINE VERTICAL AND HORIZONTAL CLEARANCES, SEE DETAIL 1/C-008.
13. INSTALL THRUST BLOCKS ON ALL PRESSURIZED WATER AND IRRIGATION BENDS AND TEES PER SPANISH FORK CITY STANDARDS, SEE DETAIL 3/C-005.
14. CONNECT STORM DRAIN PIPE TO ROOF DRAIN AT ELEVATION SHOWN. DAYLIGHT STORM DRAIN PIPE TO ASPHALT DRIVE AREA.
15. FURNISH AND INSTALL SEWER/DRAIN CLEANOUTS EVERY 75 FEET AND AT BENDS ON SEWER AND/OR DRAIN LINES PER DETAIL 3/P-501.

ABBREVIATIONS

SD	STORM DRAIN
SS	SANITARY SEWER
D	PROCESS/LEACHATE DRAIN
PW	POTABLE WATER
NPW	NON-POTABLE WATER
FL	FIRE LINE
NG	NATURAL GAS
PI	PRESSURIZED IRRIGATION
UGE	UNDERGROUND ELECTRIC
INV	INVERT
RD	ROOF DRAIN
BFG	BELOW FINISHED GROUND
COTG	CLEANOUT TO GRADE

GRAPHIC SCALE
0' 15' 30' 60' 90'
Scale: 1"=30'

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

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370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4700 FAX: 801.364.4662

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

	DATE	REVISION
0	08/21	BID SET
1	02/22	REVISION 1

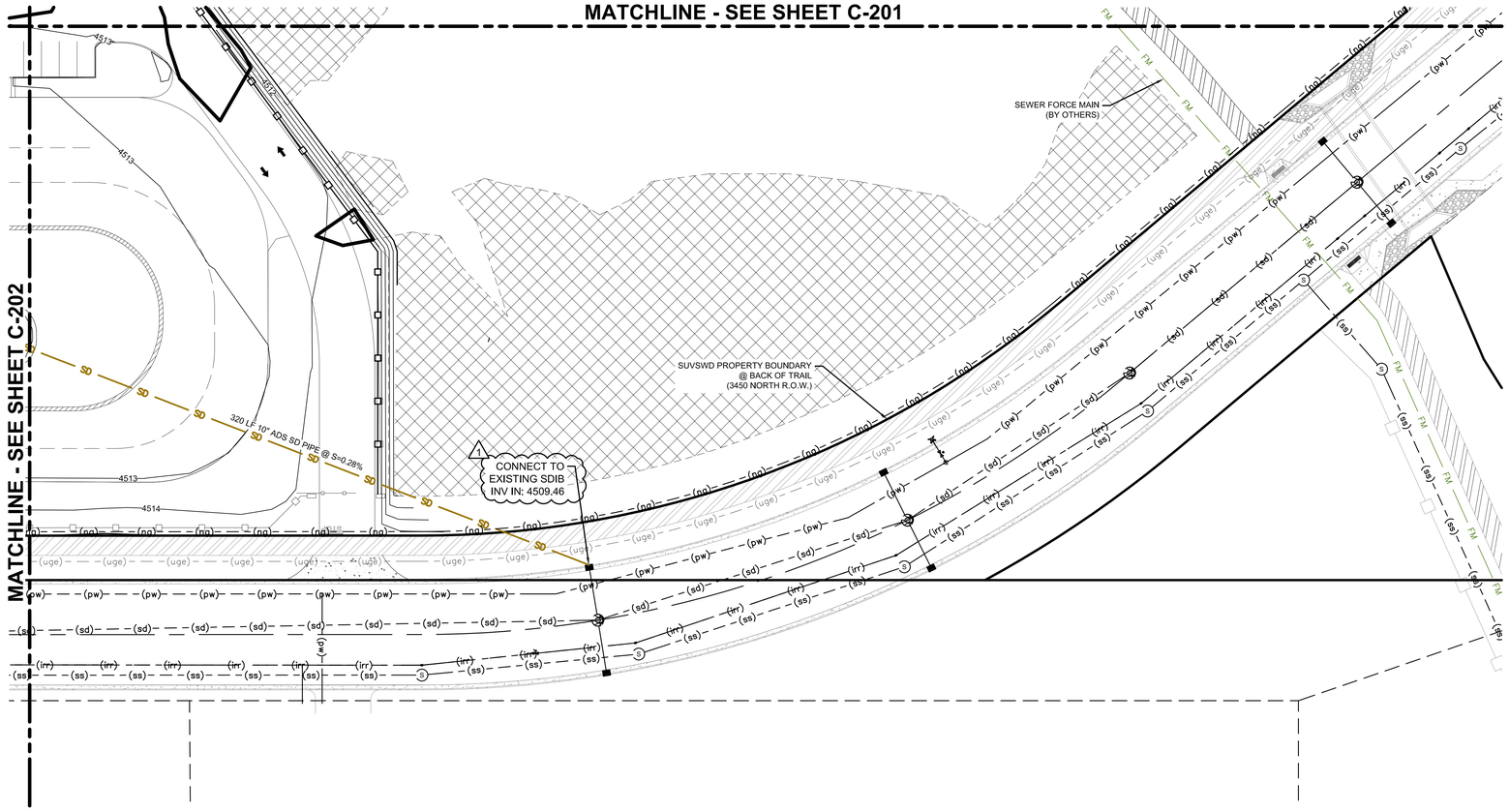
LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

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AREA 3 - YARD PIPING PLAN

C-202
XX OF XX

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NOTES:

1. SEE PIPE SCHEDULE AND ABBREVIATIONS LIST ON SHEET C-000 FOR INFORMATION ON PIPES.
2. MANHOLES ARE 4'-0" DIAMETER UNLESS OTHERWISE NOTED.
3. MAINTAIN 5' OF COVER ON THE POTABLE WATER AND FIRE LINES.

ABBREVIATIONS

SD	STORM DRAIN
SS	SANITARY SEWER
D	PROCESS/LEACHATE DRAIN
PW	POTABLE WATER
FL	FIRE LINE
NG	NATURAL GAS
PI	PRESSURIZED IRRIGATION
UGE	UNDERGROUND ELECTRIC
INV	INVERT
RD	ROOF DRAIN

GRAPHIC SCALE

0' 15' 30' 60' 90'

Scale: 1"=30'

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4755 FAX: 801.364.4662

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

	DATE	REVISION
0	08/21	BID SET
1	02/22	REVISION 1

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

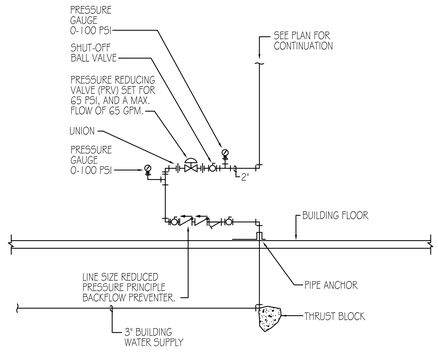
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AREA 4 - YARD PIPING PLAN

C-203

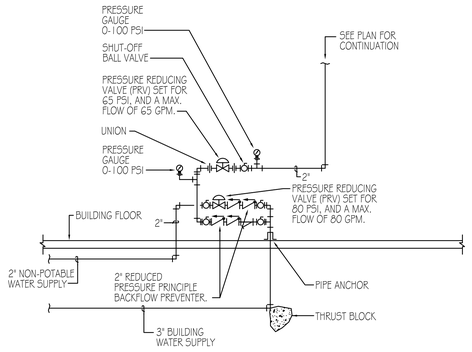
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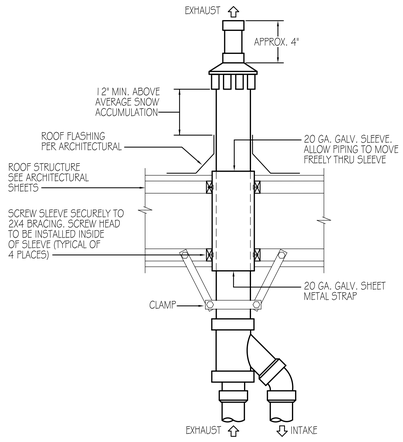
WATER ENTRY DETAIL

SCALE: NONE — 4 / P-504



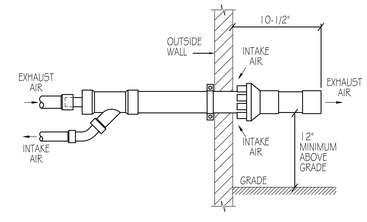
WATER ENTRY DETAIL

SCALE: NONE — 1 / P-504



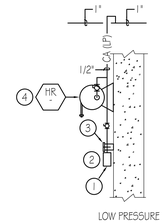
CONCENTRIC VENT KIT AT ROOF DETAIL

SCALE: NONE — 5 / P-504



CONCENTRIC VENT KIT AT WALL DETAIL

SCALE: NONE — 6 / P-504



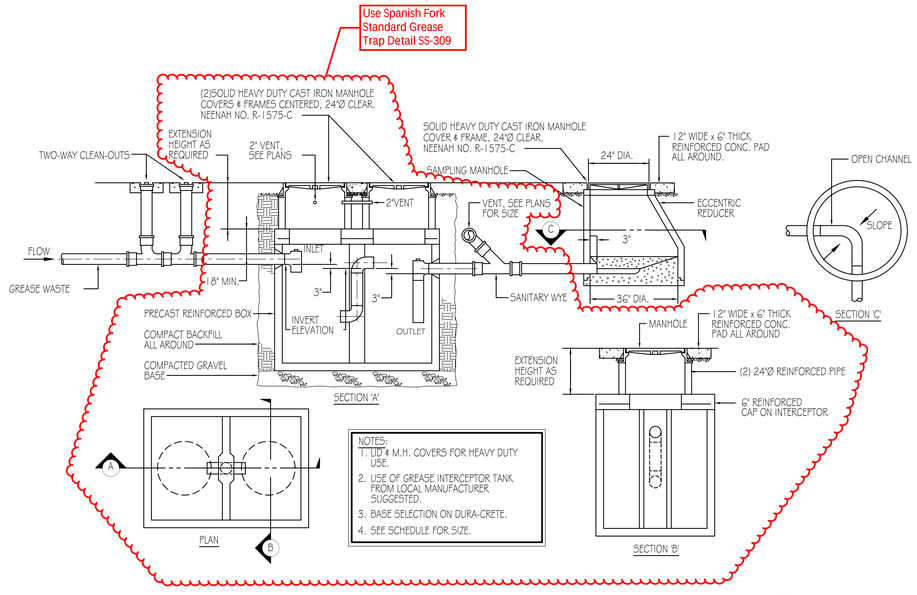
LOW PRESSURE

DETAIL NOTES

1. 3/8" QUICK DISCONNECT FITTING TYPICAL.
2. MOUNT 48" A.F.F. (UNLESS NOTED OTHERWISE)
3. SECURE AIR DROP TO WALL, TYPICAL.
4. MOUNT HOSE REEL AT 96" ABOVE FINISHED FLOOR. (UNLESS NOTED OTHERWISE)

COMPRESSED AIR DROP DETAIL

SCALE: NONE — 2 / P-504



SAND OIL INTERCEPTOR DETAIL

SCALE: NONE — 3 / P-504

JRCA
ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

HEATH
Engineering Company

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 N. MAIN ST.
SPANISH FORK, UTAH 84660

PROJECT #: 20044

PROJECT STATUS

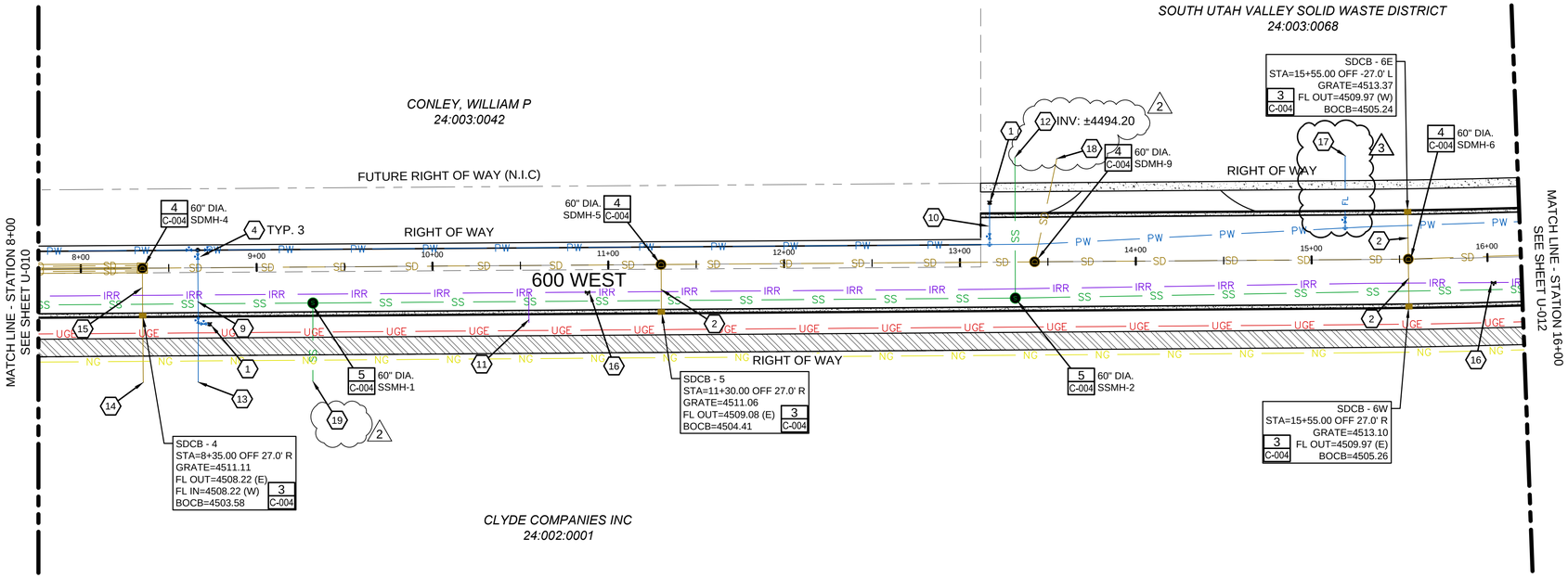
	DATE	REVISION
	-	-

LICENSED PROFESSIONAL ENGINEER
No. 276896
ROBERT JACK KESLER
12/10/2021
STATE OF UTAH

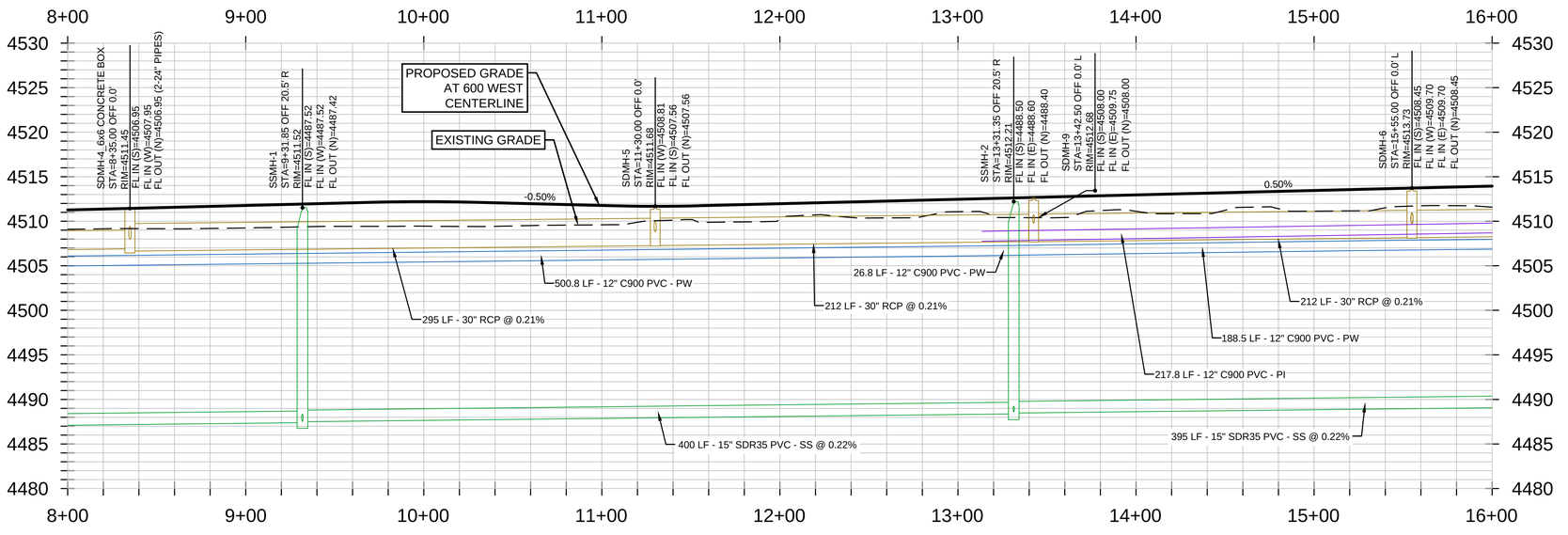
PLUMBING DETAILS

P-504

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3/1/2021 12:25:59 PM
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600 WEST
PLAN VIEW
SCALE: 1"= 40'



600 WEST
STATION 8+00 TO 16+00
SCALE: 1"= 40'

CONSTRUCTION NOTES:

1. CONSTRUCT WATEROUS WB-67 FIRE HYDRANT ASSEMBLY, OR APPROVED EQUAL, PER SPANISH FORK CITY STANDARDS.
2. CONSTRUCT 27 LF OF 15" RCP STORM DRAIN PIPE @ 1.0% SLOPE.
3. FURNISH AND INSTALL 12" PVC TEE.
4. FURNISH AND INSTALL 12" CULINARY WATER BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
5. FURNISH AND INSTALL 8" CULINARY WATER BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
6. FURNISH AND INSTALL 12"x6" REDUCING TEE.
7. FURNISH AND INSTALL 12" PRESSURIZED IRRIGATION BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
8. FURNISH AND INSTALL 6" PRESSURIZED IRRIGATION BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
9. CONSTRUCT ±42 LF OF 10" CULINARY WATER LATER TO HYDRANT ASSEMBLY.
10. CONSTRUCT ±22 LF OF 6" CULINARY WATER LATER TO HYDRANT ASSEMBLY.
11. CONSTRUCT ±16 LF OF 1.5" IRRIGATION LATERAL, PER SPANISH FORK CITY STANDARDS.
12. CONSTRUCT ±80LF OF 8" SDR35 PVC SEWER STUB @ 7.00% TO 15' BEHIND BACK OF WALK. CAP AND MARK AT SURFACE.
13. CONSTRUCT 10" CULINARY WATER STUB TO 15' BEHIND BACK OF TRAIL, 15' OFFSET SOUTH OF SANITARY SEWER. CAP AND MARK AT SURFACE.
14. CONSTRUCT 18" ADS SD STUB @ 1.0% SLOPE TO 15' BEHIND BACK OF TRAIL. CAP AND MARK AT SURFACE.
15. CONSTRUCT ±27LF OF 18" RCP STORM DRAIN PIPE @ 1.0% SLOPE.
16. FURNISH AND INSTALL 12" PRESSURIZED IRRIGATION BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
17. FURNISH AND INSTALL 10" POTABLE WATER LATERAL FOR FIRE SUPPRESSION SYSTEM, PER SPANISH FORK CITY STANDARDS. VALVE AT TEE SHALL BE A 10" GATE VALVE. STUB TO 15' BEHIND BACK OF WALK. CAP AND MARK AT SURFACE.
18. STORM DRAIN FORCE MAIN PIPE. COORDINATE SIZE AND INVERT ELEVATION WITH SUVSWD PROJECT MANAGER.
19. CONSTRUCT 8" SDR35 PVC SEWER STUB @ 1.0% SLOPE TO 15' BEHIND BACK OF TRAIL. CAP AND MARK AT SURFACE.

GRAPHIC SCALE
0' 20' 40' 80' 120'
Scale: 1"=40'

NO.	REVISIONS	BY	DATE
2	UTILITY MODIFICATIONS	NAP	10/7/22
3	FIRE LATERAL UPDATE	NAP	03/1/22

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PH: 801.364.4785
FAX: 801.364.4802

PROFESSIONAL ENGINEER
No. 11221945
MARK STENQUIST
STATE OF UTAH

PROJECT NO. 05-19-0115
DRAWN S. COZZENS
DESIGNED M. STENQUIST
APPROVED M. STENQUIST
QA/QC N. PATTERSON

SUVSWD

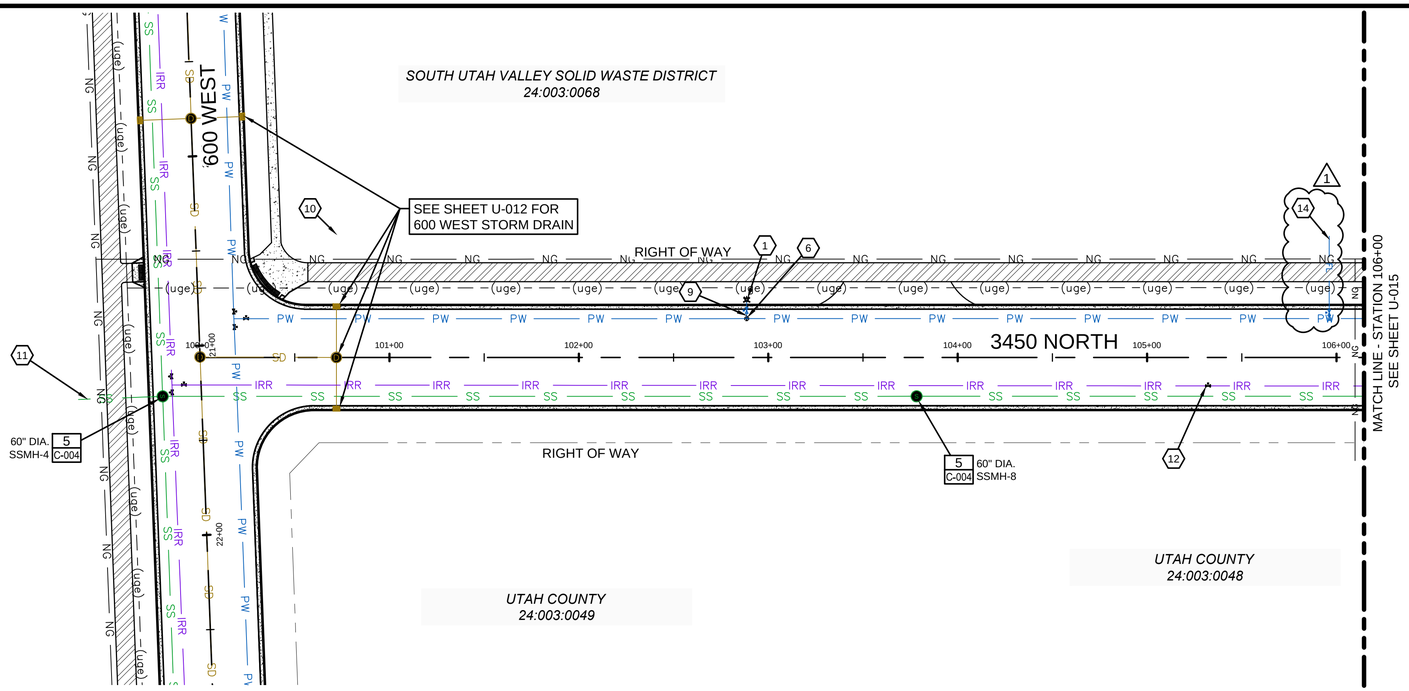
OFFSITE IMPROVEMENTS
600 WEST UTILITIES PLAN AND PROFILE
STA 8+00 TO STA 16+00

SHEET NO: U-011
DATE: JULY 2021
PAGE NO: 21 OF 127

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CONSTRUCTION

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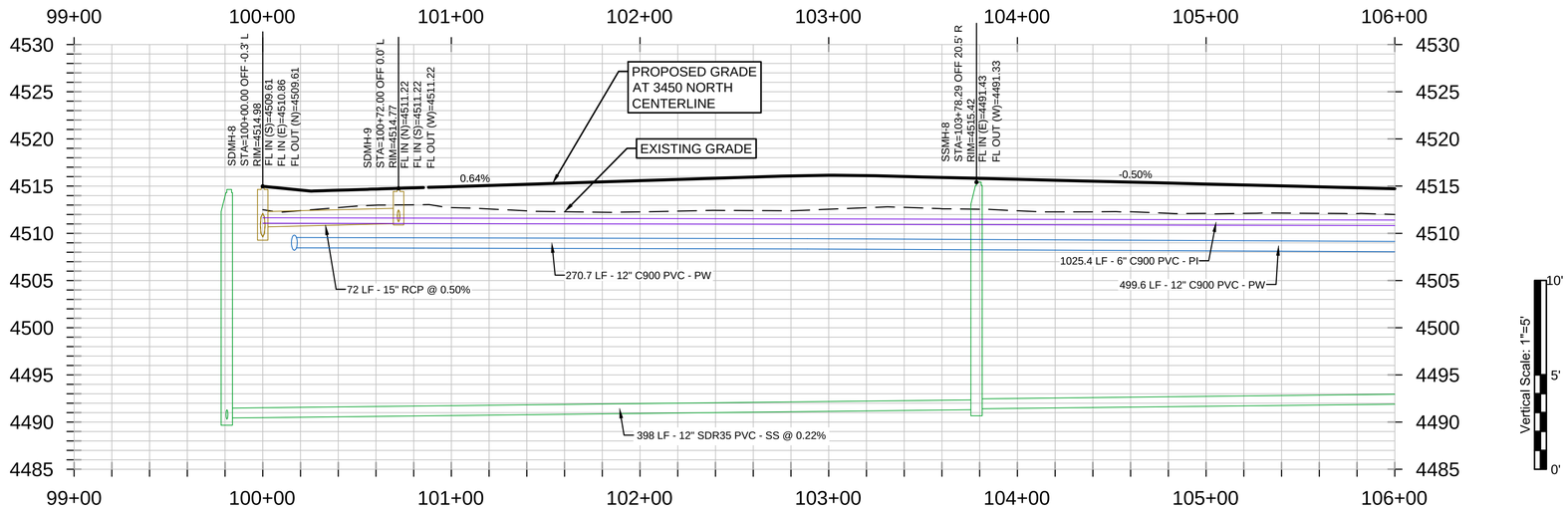


3450 NORTH
PLAN VIEW
SCALE: 1"= 40'

CONSTRUCTION NOTES:

1. CONSTRUCT WATEROUS WB-67 FIRE HYDRANT ASSEMBLY, OR APPROVED EQUAL, PER SPANISH FORK CITY STANDARDS.
2. CONSTRUCT 27 LF OF 15" RCP STORM DRAIN PIPE @ 1.0% SLOPE.
3. FURNISH AND INSTALL 12" PVC TEE.
4. FURNISH AND INSTALL 12" CULINARY WATER BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
5. FURNISH AND INSTALL 8" CULINARY WATER BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
6. FURNISH AND INSTALL 12"x6" REDUCING TEE.
7. FURNISH AND INSTALL 12" PRESSURIZED IRRIGATION BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
8. FURNISH AND INSTALL 6" PRESSURIZED IRRIGATION BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
9. CONSTRUCT ±12 LF OF 6" CULINARY WATER LATER TO HYDRANT ASSEMBLY.
10. CONSTRUCT 15" RCP STORM DRAIN PIPE @ 1.0% SLOPE TO 15' BEHIND BACK OF TRAIL. CAP STUB AND MARK AT SURFACE.
11. FURNISH AND INSTALL 10" SDR35 PVC SEWER STUB @ 0.50% SLOPE TO 15' BEHIND BACK OF TRAIL. CAP STUB AND MARK AT SURFACE.
12. FURNISH AND INSTALL 12" PRESSURIZED IRRIGATION BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
13. NOTE NOT USED.
14. FURNISH AND INSTALL 10" POTABLE WATER LATERAL FOR FIRE SUPPRESSION SYSTEM, PER SPANISH FORK CITY STANDARDS. VALVE AT TEE SHALL BE A 10" GATE VALVE. STUB TO 15' BEHIND BACK OF WALK. CAP AND MARK AT SURFACE.

GRAPHIC SCALE
0' 20' 40' 80' 120'
Scale: 1"=40'



3450 NORTH
STATION 100+00 TO 106+00
SCALE: 1"= 40'

Know what's below. Call before you dig.

CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	UTILITY LATERAL UPDATES	NAP	02/22

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PH: 801.364.4785 FAX: 801.364.4802

PROFESSIONAL ENGINEER
No. 11221945
MARK STENQUIST
STATE OF UTAH

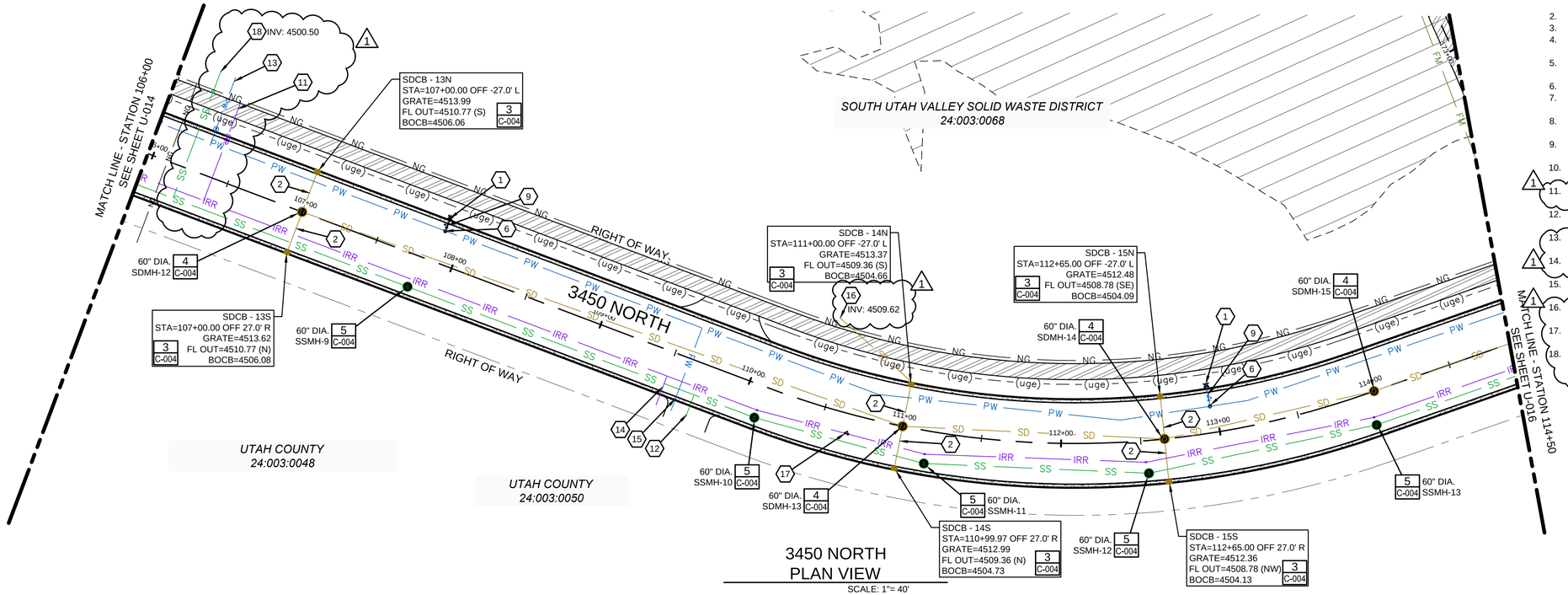
PROJECT NO.	05-19-0115
DRAWN	S. COZZENS
DESIGNED	M. STENQUIST
APPROVED	M. STENQUIST
QA/QC	N. PATTERSON

SUVSWD

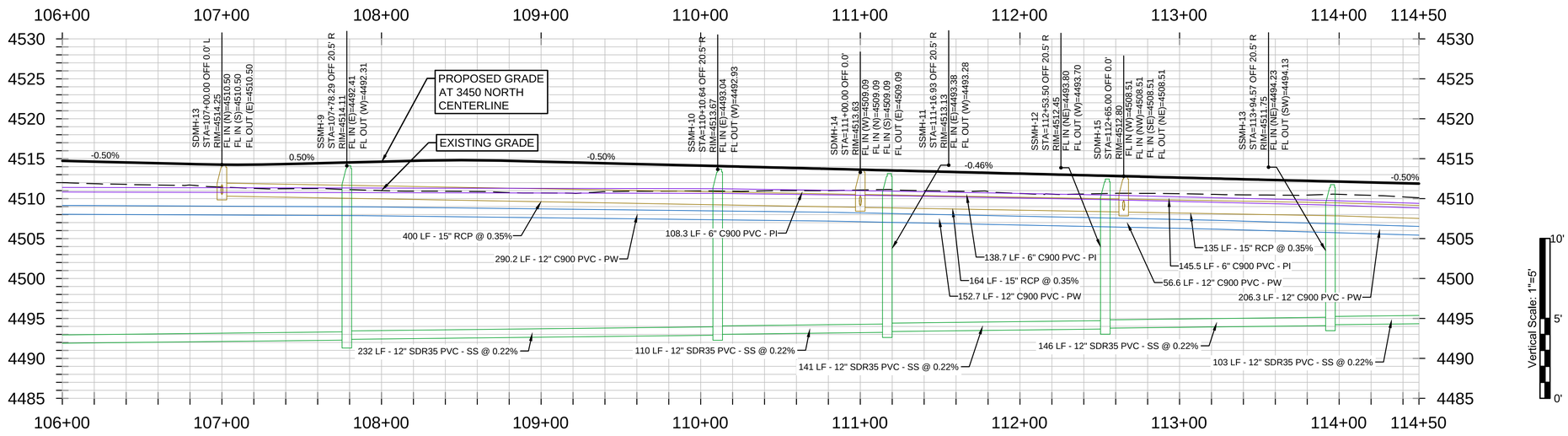
OFFSITE IMPROVEMENTS
3450 NORTH UTILITIES
PLAN AND PROFILE
STA 100+00 TO STA 106+00

SHEET NO: U-014
DATE: JULY 2021
PAGE NO: 24 OF 127

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3450 NORTH
PLAN VIEW
SCALE: 1"= 40'



3450 NORTH
STATION 106+00 TO 114+50
SCALE: 1"= 40'

CONSTRUCTION NOTES:

1. CONSTRUCT WATEROUS WB-67 FIRE HYDRANT ASSEMBLY, OR APPROVED EQUAL, PER SPANISH FORK CITY STANDARDS.
2. CONSTRUCT 27 LF OF 15" RCP STORM DRAIN PIPE @ 1.0% SLOPE.
3. FURNISH AND INSTALL 12" PVC TEE.
4. FURNISH AND INSTALL 12" CULINARY WATER BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
5. FURNISH AND INSTALL 8" CULINARY WATER BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
6. FURNISH AND INSTALL 12"x6" REDUCING TEE.
7. FURNISH AND INSTALL 12" PRESSURIZED IRRIGATION BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
8. FURNISH AND INSTALL 6" PRESSURIZED IRRIGATION BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
9. CONSTRUCT ±10 LF OF 6" CULINARY WATER LATER TO HYDRANT ASSEMBLY.
10. CONSTRUCT ±42 LF OF 6" CULINARY WATER LATER TO HYDRANT ASSEMBLY.
11. CONSTRUCT ±42 LF OF 2" IRRIGATION LATERAL, PER SPANISH FORK CITY STANDARDS.
12. CONSTRUCT 4" SANITARY SEWER LATERAL TO 14' BEHIND PROPERTY LINE, PER SPANISH FORK CITY STANDARDS.
13. FURNISH AND INSTALL ±16 LF OF 4" CULINARY WATER LATERAL, PER SPANISH FORK CITY STANDARDS.
14. CONSTRUCT ±16 LF OF 2" IRRIGATION LATERAL, PER SPANISH FORK CITY STANDARDS.
15. CONSTRUCT ±52 LF OF 2" CULINARY WATER LATERAL, PER SPANISH FORK CITY STANDARDS.
16. CONSTRUCT 60LF OF 10" ADS STORM DRAIN PIPE @ 0.28% SLOPE. CAP, STUB, AND MARK AT SURFACE.
17. FURNISH AND INSTALL 12" PRESSURIZED IRRIGATION BUTTERFLY VALVE, PER SPANISH FORK CITY STANDARDS.
18. CONSTRUCT 6" SDR35 PVC SEWER LATERAL @ 9.50% TO 14' BEHIND BACK OF TRAIL, PER SPANISH FORK CITY STANDARDS DETAIL SS-305. CAP AND MARK AT SURFACE.

GRAPHIC SCALE
0' 20' 40' 80' 120'
Scale: 1"=40'

Know what's **below.** **Call** before you dig.

CONSTRUCTION

NO.	REVISIONS	BY	DATE
1	UTILITY LATERAL UPDATES	NAP	02/22

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FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4785
FAX: 801.364.4802

PROFESSIONAL ENGINEER
No. 11221945
MARK STENQUIST
STATE OF UTAH

PROJECT NO.	05-19-0115
DRAWN	S. COZZENS
DESIGNED	M. STENQUIST
APPROVED	M. STENQUIST
QA/QC	N. PATTERSON

SUVSWD

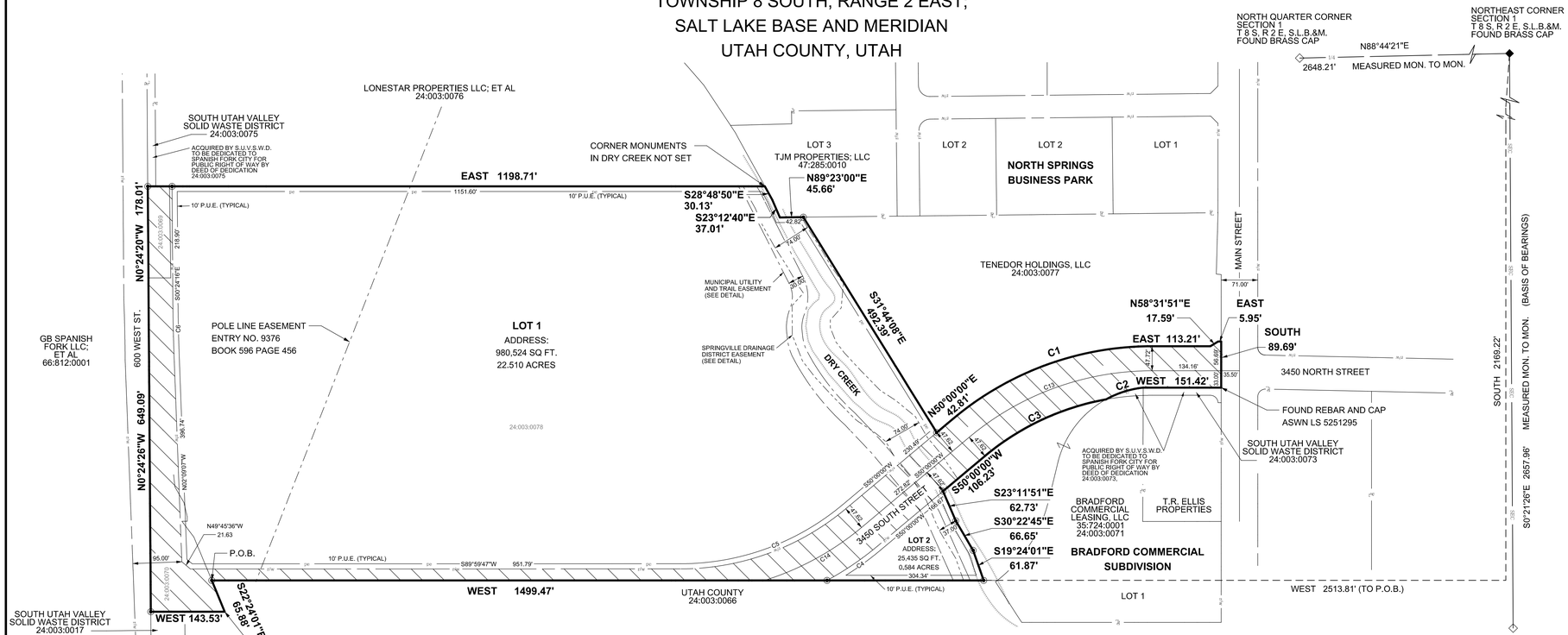
OFFSITE IMPROVEMENTS
3450 NORTH UTILITIES
PLAN AND PROFILE
STA 106+00 TO 114+50

SHEET NO: **U-015**
DATE: JULY 2021
PAGE NO: 25 OF 127

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SOUTH UTAH VALLEY SOLID WASTE DISTRICT SUBDIVISION

LOCATED IN THE NORTHEAST QUARTER OF SECTION 1;
TOWNSHIP 8 SOUTH, RANGE 2 EAST;
SALT LAKE BASE AND MERIDIAN
UTAH COUNTY, UTAH



ESI ENGINEERING
CONSULTING ENGINEERS
AND LAND SURVEYORS
3500 S. MAIN SUITE 206
SALT LAKE CITY, UTAH 84115

LEGEND

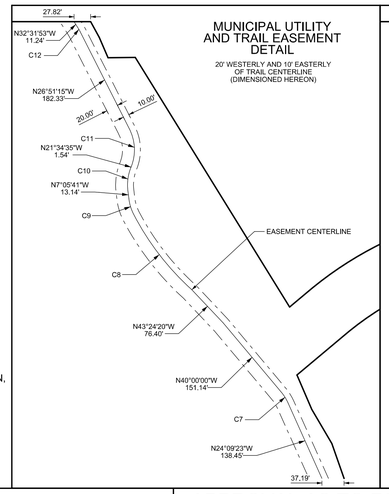
- SECTION CORNER & LINE (FOUND)
- QUARTER CORNER & LINE (FOUND)
- ADJACENT PROPERTY OR LOT LINES
- BOUNDARY LINE
- MONUMENT TIE LINE
- WIRE FENCE
- RIGHT OF WAY LINE / LOT LINE
- MUNICIPAL UTIL. & TRAIL EASEMENT
- SPRINGVILLE DRAINAGE DIST. EASEMENT
- PUBLIC UTILITY EASEMENT
- REBAR AND CAP SET AT PROPERTY CORNER UNLESS NOTED OTHERWISE
- AREA TO BE DEDICATED AS PUBLIC RIGHT OF WAY

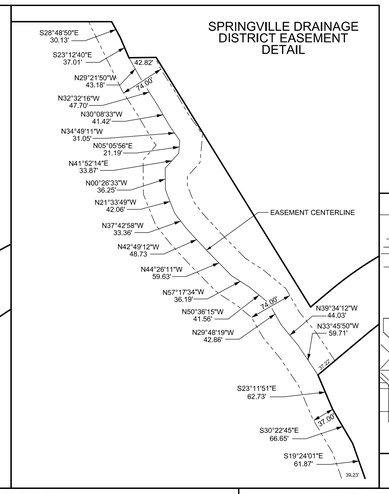
NORTH

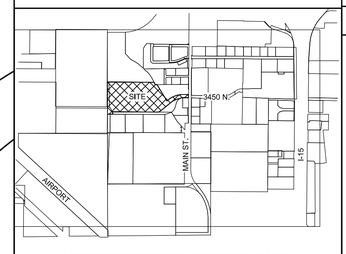
60' 0' 60' 120'
SCALE IN FEET

CURVE TABLE					
CURVE #	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD DISTANCE
C1	600.00	418.88	40°00'00"	N.70°00'00"E.	410.42
C2	192.00	76.19	22°44'15"	S.72°24'21"W.	75.70
C3	505.00	262.83	29°49'10"	S.64°54'36"W.	259.87
C4	595.00	118.31	11°23'33"	N.55°48'34"E.	118.11
C5	500.00	349.17	40°00'43"	S.70°00'21"W.	342.12
C6	3756.00	114.59	1°44'53"	N.01°16'42"W.	114.58
C7	80.80	22.33	15°50'37"	N.32°04'42"W.	22.26
C8	448.33	161.00	20°34'31"	N.37°39'06"W.	160.13
C9	80.00	27.15	19°26'47"	N.16°48'55"W.	27.02
C10	80.00	40.04	28°40'47"	N.07°14'27"E.	39.63
C11	77.00	66.38	49°23'46"	N.03°08'59"W.	64.35
C12	80.00	7.93	05°40'44"	N.29°41'34"W.	7.93
C13	552.52	385.99	40°01'37"	S.69°59'37"W.	378.19
C14	549.89	216.03	22°30'33"	S.50°05'44"W.	214.64

BASIS OF BEARINGS IS BETWEEN THE FOUND NORTHEAST CORNER AND THE FOUND EAST QUARTER CORNER OF SECTION 1, TOWNSHIP 8 SOUTH, RANGE 2 EAST, SALT LAKE BASE AND MERIDIAN, MEASURING S.00°21'26"E. 2657.96 FEET.







SITE ADDRESS: 3400 NORTH MAIN, SPANISH FORK, UT 84660

VICINITY MAP
N.T.S.

SURVEYOR'S CERTIFICATE

I, MATTHEW K PETERSON, DO HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR, AND THAT I HOLD LICENSE NUMBER 7031451, AS PRESCRIBED UNDER THE LAWS OF THE STATE OF UTAH. I FURTHER CERTIFY THAT BY THE AUTHORITY OF THE OWNER(S) I HAVE MADE A SURVEY OF THE TRACT OF LAND SHOWN ON THIS PLAT AND DESCRIBED HEREON (RECORD OF SURVEY ON FILE AT THE UTAH COUNTY SURVEYOR'S OFFICE AS ENTRY NO. 20-0311, AND HAVE SUBDIVIDED SAID TRACT OF LAND INTO LOTS AND STREETS, TOGETHER WITH EASEMENTS, HEREAFTER TO BE KNOWN AS:
SOUTH UTAH VALLEY SOLID WASTE DISTRICT SUBDIVISION
AND THAT THE SAME HAS BEEN CORRECTLY SURVEYED ON THE GROUND AS SHOWN ON THIS PLAT.

MATTHEW K PETERSON, P.L.S. #7031451

PROFESSIONAL LAND SURVEYOR — 2/16/22 — NO. 7031451 — MATTHEW K. PETERSON — STATE OF UTAH

BOUNDARY DESCRIPTION

A SUBDIVISION OF LAND, BEING PART OF THE NORTHEAST QUARTER OF SECTION 1, TOWNSHIP 8 SOUTH, RANGE 2 EAST, SALT LAKE BASE AND MERIDIAN, THE OVERALL BOUNDARY OF SAID SUBDIVISION IS DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT WHICH IS SOUTH 2169.22 FEET AND WEST 2513.81 FEET FROM SAID NORTHEAST CORNER OF SECTION 1; AND RUNNING THENCE S.22°24'01"E. 65.88 FEET; THENCE WEST 143.53 FEET; THENCE N.0°24'26"W. 649.09 FEET; THENCE N.0°24'20"W. 178.01 FEET; THENCE EAST 1198.71 FEET TO THE WESTERLY BOUNDARY LINE OF NORTH SPRINGS BUSINESS PARK SUBDIVISION; THENCE ALONG SAID WESTERLY BOUNDARY LINE THE FOLLOWING TWO COURSES AND DISTANCES; (1) S.28°48'50"E. 30.13 FEET; (2) S.23°12'40"E. 37.01 FEET (PLAT=37.14') TO THE SOUTHWEST CORNER OF SAID NORTH SPRINGS BUSINESS PARK; THENCE N.89°23'00"E. 45.66 FEET ALONG THE SOUTHERLY BOUNDARY LINE OF SAID NORTH SPRINGS BUSINESS PARK; THENCE S.31°44'08"E. 492.39 FEET; THENCE N.50°00'00"E. 42.81 FEET; THENCE NORTHEASTERLY 418.88 FEET ALONG THE ARC OF A 600.00-FOOT RADIUS NON-TANGENT CURVE TO THE RIGHT (NOTE: CHORD TO SAID CURVE BEARS N.70°00'00"E. FOR A DISTANCE OF 410.42 FEET); THENCE EAST 113.21 FEET; THENCE N.58°31'51"E. 17.59 FEET; THENCE EAST 5.95 FEET TO THE WESTERLY RIGHT OF WAY LINE OF MAIN STREET; THENCE SOUTH 89.69 FEET; THENCE WEST 151.42 FEET TO THE NORTHEAST CORNER OF BRADFORD COMMERCIAL SUBDIVISION; THENCE SOUTHWESTERLY 76.19 FEET ALONG THE ARC OF A 192.00-FOOT RADIUS NON-TANGENT CURVE TO THE LEFT (NOTE: CHORD TO SAID CURVE BEARS S.72°24'21"W. FOR A DISTANCE OF 75.70 FEET) ALONG THE NORTHERLY BOUNDARY LINE OF SAID BRADFORD COMMERCIAL SUBDIVISION; THENCE SOUTHWESTERLY 262.83 FEET ALONG THE ARC OF A 505.00-FOOT RADIUS NON-TANGENT CURVE TO THE LEFT (NOTE: CHORD TO SAID CURVE BEARS S.64°54'36"W. FOR A DISTANCE OF 259.87 FEET); THENCE S.50°00'00"W. 106.23 FEET; THENCE S.23°11'51"E. 62.73 FEET; THENCE S.30°22'45"E. 66.65 FEET; THENCE S.19°24'01"E. 61.87 FEET; THENCE WEST 1499.47 FEET TO THE POINT OF BEGINNING.

THE ABOVE DESCRIBED SUBDIVISION OF LAND CONTAINS 1,170,549 SQUARE FEET OR 26.872 ACRE, CONTAINING TWO LOTS AND ONE PUBLIC ROADWAY DEDICATION.

OWNERS DEDICATION

KNOW ALL MEN BY THESE PRESENTS THAT WE THE UNDERSIGNED ARE THE OWNERS OF THE ABOVE DESCRIBED TRACT OF LAND, AND HEREBY CAUSED THE SAME TO BE DIVIDED INTO LOTS AND STREETS, TOGETHER WITH EASEMENTS AS SET FORTH TO BE HEREAFTER KNOWN AS,

SOUTH UTAH VALLEY SOLID WASTE DISTRICT SUBDIVISION

AND DO HEREBY DEDICATE FOR THE PERPETUAL USE OF THE PUBLIC ALL ROADS AND OTHER AREAS SHOWN ON THIS PLAT AS INTENDED FOR PUBLIC USE. THE UNDERSIGNED OWNERS ALSO HEREBY CONVEY TO ANY AND ALL PUBLIC UTILITY COMPANIES A PERPETUAL, NON -EXCLUSIVE EASEMENT OVER THE PUBLIC UTILITY EASEMENTS SHOWN ON THIS PLAT, THE SAME TO BE USED FOR THE INSTALLATION, MAINTENANCE AND OPERATION OF UTILITY LINES AND FACILITIES. THE UNDERSIGNED OWNERS ALSO HEREBY CONVEY ANY OTHER EASEMENTS AS SHOWN ON THIS PLAT TO THE PARTIES INDICATED AND FOR THE PURPOSES SHOWN HEREON. IN WITNESS WE / I HAVE HEREUNTO SET OUR HANDS
THE_____ DAY OF _____, 2022.

ACKNOWLEDGEMENT

STATE OF UTAH
COUNTY OF UTAH } S.S.

THE FOREGOING INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS_____DAY OF_____, 2022, BY_____ .

MY COMMISSION EXPIRES:_____ COMMISSION NUMBER:_____

NOTARY PUBLIC (PRINT NAME) NOTARY PUBLIC (SIGNATURE)

A NOTARY PUBLIC COMMISSIONED IN UTAH

PLANNING COMMISSION

APPROVED THIS _____ DAY OF
_____ A.D. 20___ BY THE
SPANISH FORK CITY PLANNING COMMISSION.

_____
CHAIRMAN SPANISH FORK CITY PLANNING COMM.

ENGINEER'S CERTIFICATE

I HEREBY CERTIFY THAT THIS OFFICE HAS EXAMINED THIS PLAT AND IT IS CORRECT IN ACCORDANCE WITH INFORMATION ON FILE IN THIS OFFICE.

_____ _____
DATE SPANISH FORK CITY ENGINEER

APPROVAL AS TO FORM

APPROVED AS TO FORM THIS _____
DAY OF _____ A.D. 20___

_____
SPANISH FORK CITY ATTORNEY

CITY COUNCIL

PRESENTED TO THE SPANISH FORK CITY COUNCIL
ON THIS _____ DAY OF _____ A.D. 20___,
AT WHICH TIME THIS SUBDIVISION WAS APPROVED
AND ACCEPTED.

CITY MANAGER:_____
CITY RECORDER ATTEST: _____

RECORDED

ENTRY NO. _____ FEE PAID _____
FILED FOR RECORD AND RECORDED THIS _____
DAY OF _____ A.D. 2018
IN BOOK _____ AT PAGE _____
UTAH COUNTY RECORDER

BY : _____ DEPUTY

MEMO

To:	DRC and City Council
From:	Vaughn R. Pickell, City Attorney
Meeting Dates:	DRC – March 9, 2022; City Council – April 5, 2022
Re:	Ordinance Amending Title 13 Regarding Extensions of Utility Service beyond City limits

---

BACKGROUND:

From time to time the City receives requests to offer City utility services to property located outside City limits. These requests require the City to evaluate the capital cost of the utility extension, the ongoing operation and maintenance costs, as well as impacts of future land uses, the adopted general plan, and the City's annexation policy.

The proposed ordinance establishes a procedure for consideration of utility extensions outside the City. It requires review and recommendation by the DRC and the Planning Commission. Finally, the City Council retains sole discretion to approve a utility extension request.

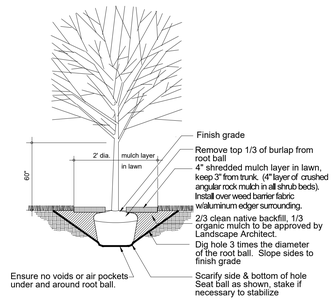
RECOMMENDED ACTION:

Approve the ordinance amending Title 13, amending standards for utility extensions beyond City limits, finding that it is in the best interest of the City and the public to carefully evaluate requests to extend utility services beyond City limits.

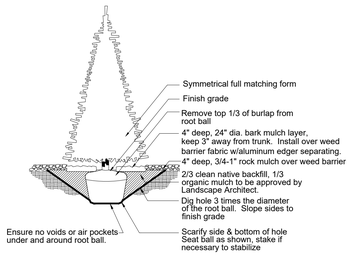
13.04.040 Extension of Utility Systems

. . .

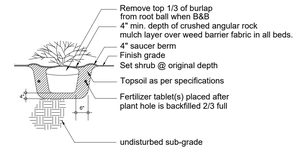
C. Utility Extensions Out of the City. *Extensions outside City limits are not favored. No party is entitled to a utility extension outside City limits.* Extensions outside City limits ~~must~~ *may* be approved by the City Council *in its sole discretion after first receiving a recommendation from the Development Review Committee (DRC) and the Planning Commission. The DRC, Planning Commission, and City Council shall consider the cost of the utility extension, the cost to service and maintain such extension, the impact of the extension on existing and future land uses, the General Plan, and the City's annexation policy.* In the event the extension is granted, the City Engineer shall designate the route to be taken. Plans*, permits, specifications* and construction work shall ~~be approved and bonded according to the~~ *meet the* City development code, Construction Standards, and ~~City Engineer~~ *be approved by the City Council after review by the DRC*. Any such extension shall be the property of the City.



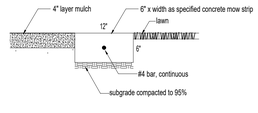
A DECIDUOUS TREE PLANTING DETAIL
NTS



B CONIFEROUS TREE PLANTING DETAIL
NTS



C SHRUB PLANTING DETAIL
NTS



D CONCRETE MOW STRIP DETAIL
NTS

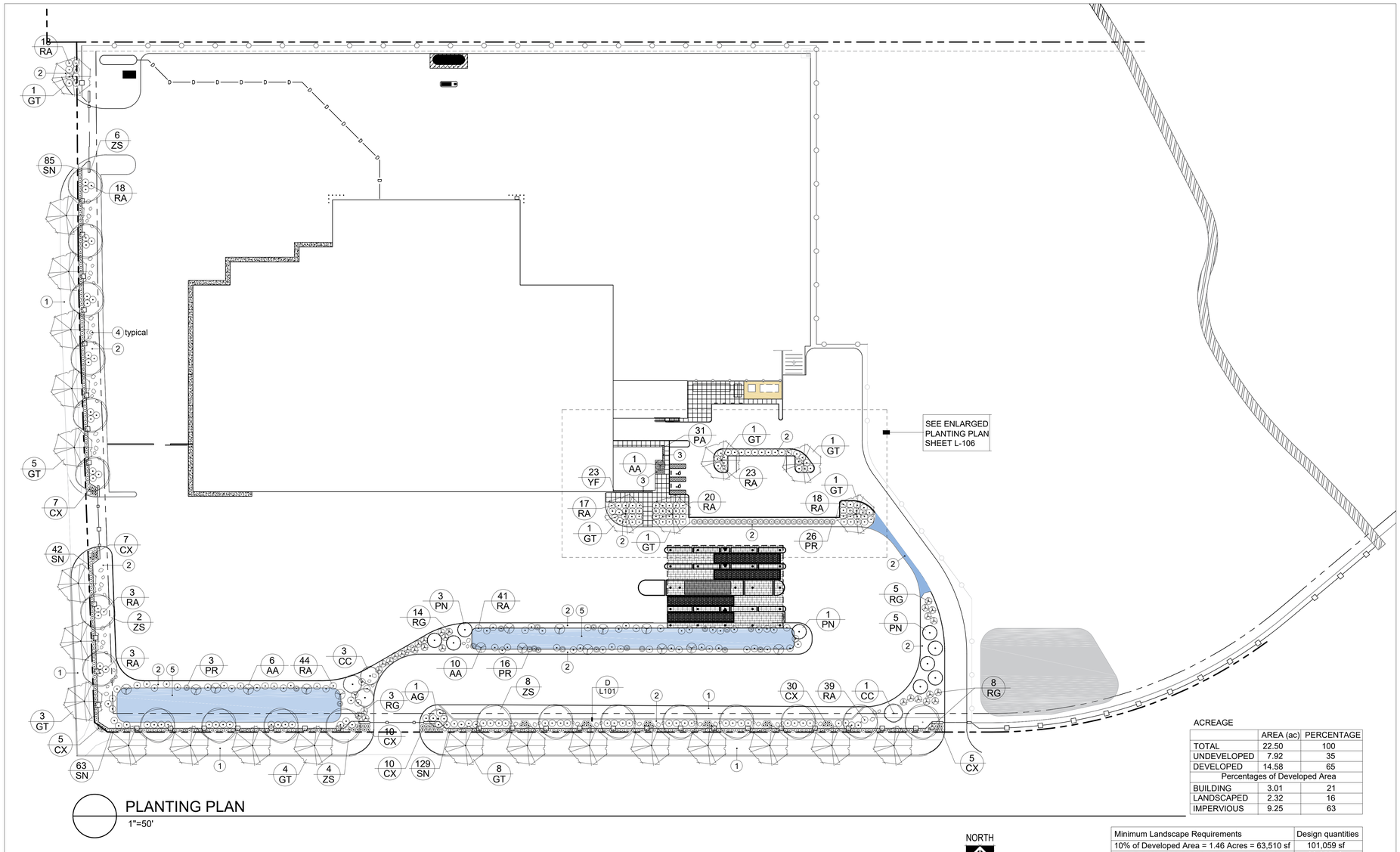
PLANT MATERIAL LIST

TREES

17	AA	Amelanchier alnifolia 'Autumn Brilliance', Serviceberry, 10-12' clump.
1	AG	Acer ginnala 'Flame', Clump Amur Maple, 10' clump.
3	CC	Cercis canadensis, Eastern redbud, 2" cal.
24	GT	Gleditsia triacanthos inermis 'Shademaster', Honeylocust, 2" cal.
9	PN	Pinus nigra, Austrian Pine, 8' tall
20	ZS	Zelkova serrata 'Green Vase', Zelkova, 2" cal.

SHRUBS

67	CX	Calamagrostis x acutiflora, Karl Foerster Reed Grass, 5 gal.
31	PA	Pennisetum alopecuroides 'Hameln', Dwarf Fountain Grass, 5 gal.
45	PR	Perovskia atriplicifolia, Russian Sage, 5 gal.
234	RA	Rhus aromatica 'Gro-Low', Gro-Low Sumac, 5 gal.
30	RG	Rhus glabra, Dwarf Smooth Sumac, 5 gal.
319	SN	Spiraea nipponica 'Snowmound', Snowmound Spiraea, 5 gal.
23	YF	Yucca filamentosa 'Color Guard', Color Guard Yucca, 5 gal.



PLANTING PLAN
1"=50'

ACREAGE

	AREA (ac)	PERCENTAGE
TOTAL	22.50	100
UNDEVELOPED	7.92	35
DEVELOPED	14.58	65
Percentages of Developed Area		
BUILDING	3.01	21
LANDSCAPED	2.32	16
IMPERVIOUS	9.25	63

Minimum Landscape Requirements	Design quantities
10% of Developed Area = 1.46 Acres = 63,510 sf	101,059 sf
Turf @ 30% of 63,510 sf: 1.46 ac = 19,053 sf	26,655 sf
Trees @ 1/1000 sf = 64 trees	74
Shrubs @ 10/1000 sf = 635 shrubs	749

NOTES

① lawn / sod

② 1 1/2" South Town Cobble* over DeWitt fabric

③ Bark mulch

④ Landscape boulders

⑤ 3" South Town Cobble* over DeWitt fabric

* Cobble available www.topsoil.rocks

JRCA
ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

SUVSWD ENVIRONMENTAL RECOVERY FACILITY
3450 N. 600 W.
SPANISH FORK, UTAH 84660

PROJECT #: 20044

CONSTRUCTION DOCUMENTS
08/30/2021

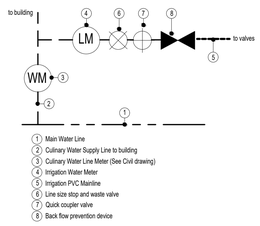
	DATE	REVISION

LANDSCAPE ARCHITECT
JOHN T. SWAIN
102348-5301
State of Utah

PLANTING PLAN

L-101

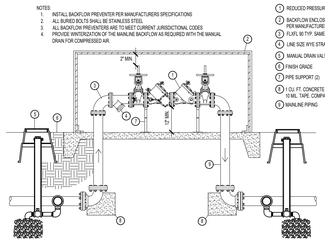
C:\Users\rbrand\Documents\20044 - SUVSWD Enviromental Recovery Facility_v20_dleverNBHLT.rvt
8/30/2021 10:11:54 AM



1. Main Water Line
2. Culinary Water Supply Line to building
3. Culinary Water Line Meter (See Civil drawing)
4. Irrigation Water Meter
5. Irrigation PVC Mainline
6. Line size stop and waste valve
7. Quick coupler valve
8. Back flow prevention device

MAIN CONNECTION SCHEMATIC DETAIL A

NTS



BACKFLOW PREVENTER DETAIL B

NTS

IRRIGATION LEGEND

TQ F H Q

Rainbird 1804-U15 series MPR pop-up spray head, half noz. 1.85 gpm @ 30 psi

Netafim Techline CV Dripline w/ pressure compensating inline emitters
emitter spacing and flow: 4 GPH @18" rows @ 18" o.c. - install as per manufacturer's recommendation for distribution uniformity.

1/2" distribution tubing (shown diagramatically on plan)
(use Sch. 40 PVC sleeve, min. 2 x line size under all hard surfaces)

Schedule 40 PVC 2" mainline
(use Sch. 40 PVC sleeve, min. 2 x line size under all hard surfaces)

Schedule 40 PVC lateral lines, sizes as noted
(use Sch. 40 PVC sleeve, min. 2 x line size under all hard surfaces)

Rainbird PEB electric remote control valves: 1" & 1 1/2".

Rainbird XCZ-100-PRB-COM Drip Control Valve Kit w/ 1" PESB Valve

Drip Zones w/ Netafim TECHLINE 17mm dripline, 0.4 emitters @ 18" emitter spacing, tubing row spacing @ 18" o.c.
Refer to manufacturer installation recommendations.

2 / 46.2 Valve number / Gallons per minute

D-1 Drip valve number

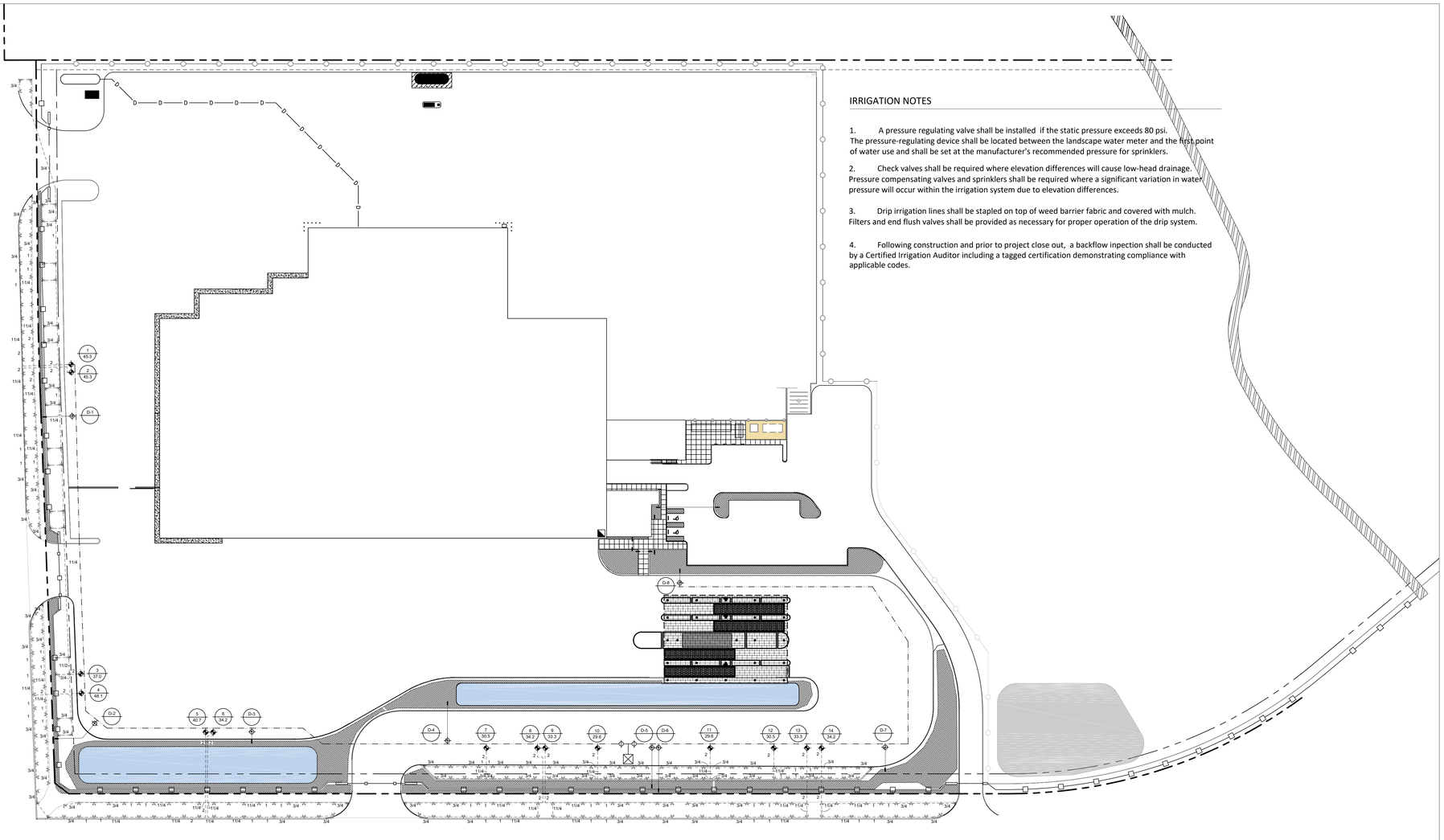
Rainbird 33-RC quick coupler valve in large round valve box

Line size isolation valve in large round valve box

Main connection: 1 1/2" Zurn Wilkins 975XL series reduced pressure (RP) backflow preventer, 2" Mueller stop & waste valve, and Rainbird 33 RC quick coupler valve, (install backflow in aluminum enclosure-meet all applicable plumbing codes)

Rainbird ESP-LXME/F-24 station exterior wall mount controller. (confirm location with Architect)

Rainbird Rain Check automatic rain shut off, confirm location with Architect



IRRIGATION PLAN

1"=50'

NORTH

0 50 100

IRRIGATION NOTES

1. A pressure regulating valve shall be installed if the static pressure exceeds 80 psi. The pressure-regulating device shall be located between the landscape water meter and the first point of water use and shall be set at the manufacturer's recommended pressure for sprinklers.

2. Check valves shall be required where elevation differences will cause low-head drainage. Pressure compensating valves and sprinklers shall be required where a significant variation in water pressure will occur within the irrigation system due to elevation differences.

3. Drip irrigation lines shall be stapled on top of weed barrier fabric and covered with mulch. Filters and end flush valves shall be provided as necessary for proper operation of the drip system.

4. Following construction and prior to project close out, a backflow inpection shall be conducted by a Certified Irrigation Auditor including a tagged certification demonstrating compliance with applicable codes.

NOTES:

1 - Use schedule 40 PVC sleeves twice the size or larger of the pipe inside.

2 - Set spray heads adjacent to walks and paving 1 1/2" away.

3 - Install quick coupler immediately downstream from the mainline connection and backflow device.

4 - Install quick couplers at each manifold over 100 feet apart.

5 - Exterior controller to be enclosed in locking stainless steel enclosure. Location to be verified with owner/Archtiect and coordinated with electrical contractor.

6 - Conduct inspection of mainline piping and wiring pior to backfilliing.

7 - Conduct final inpection for coverage. Review installed system at completion of installation and make necessary adjustments prior to acceptance.

8 - Mainline location shown schematically for graphic clarity. Contractor to keep accurate "As-Built" drawings during construction. Submit as-built drawings for preparation of final drawing for the owner.

9 - Install one valve per jumbo rectangular box. Use tan boxes in rock mulch, greeen in sod.

JRCA
ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 N. 600 W.
SPANISH FORK, UTAH 84660

PROJECT #: 20044

CONSTRUCTION DOCUMENTS
08/30/2021

	DATE	REVISION

LANDSCAPE ARCHITECT
JOHN T. SWAIN
102348-5301
State of Utah

OVERALL IRRIGATION PLAN

L-102

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SPRINKLER LEGEND

TQ F H Q — Rainbird 1804-U15 series MPR pop-up spray head, half noz. 1.85 gpm @ 30 psi

1/2" distribution tubing (shown diagramatically on plan)
(use Sch. 40 PVC sleeve, min. 2 x line size under all hard surfaces)

Schedule 40 PVC 2" mainline
(use Sch. 40 PVC sleeve, min. 2 x line size under all hard surfaces)

Schedule 40 PVC lateral lines, sizes as noted
(use Sch. 40 PVC sleeve, min. 2 x line size under all hard surfaces)

Rainbird PEB electric remote control valves: 1" & 1 1/2".

Rainbird XCZ-100-PRB-COM Drip Control Valve Kit w/ 1" PESB Valve

Drip Zones w/ Netafim TECHLINE 17mm dripline, 0.4 emitters @ 18" emitter spacing, tubing row spacing @ 18" o.c.
Refer to manufacturer installation recommendations.

2 / 46.2 — Valve number / Gallons per minute

D-1 — Drip valve number

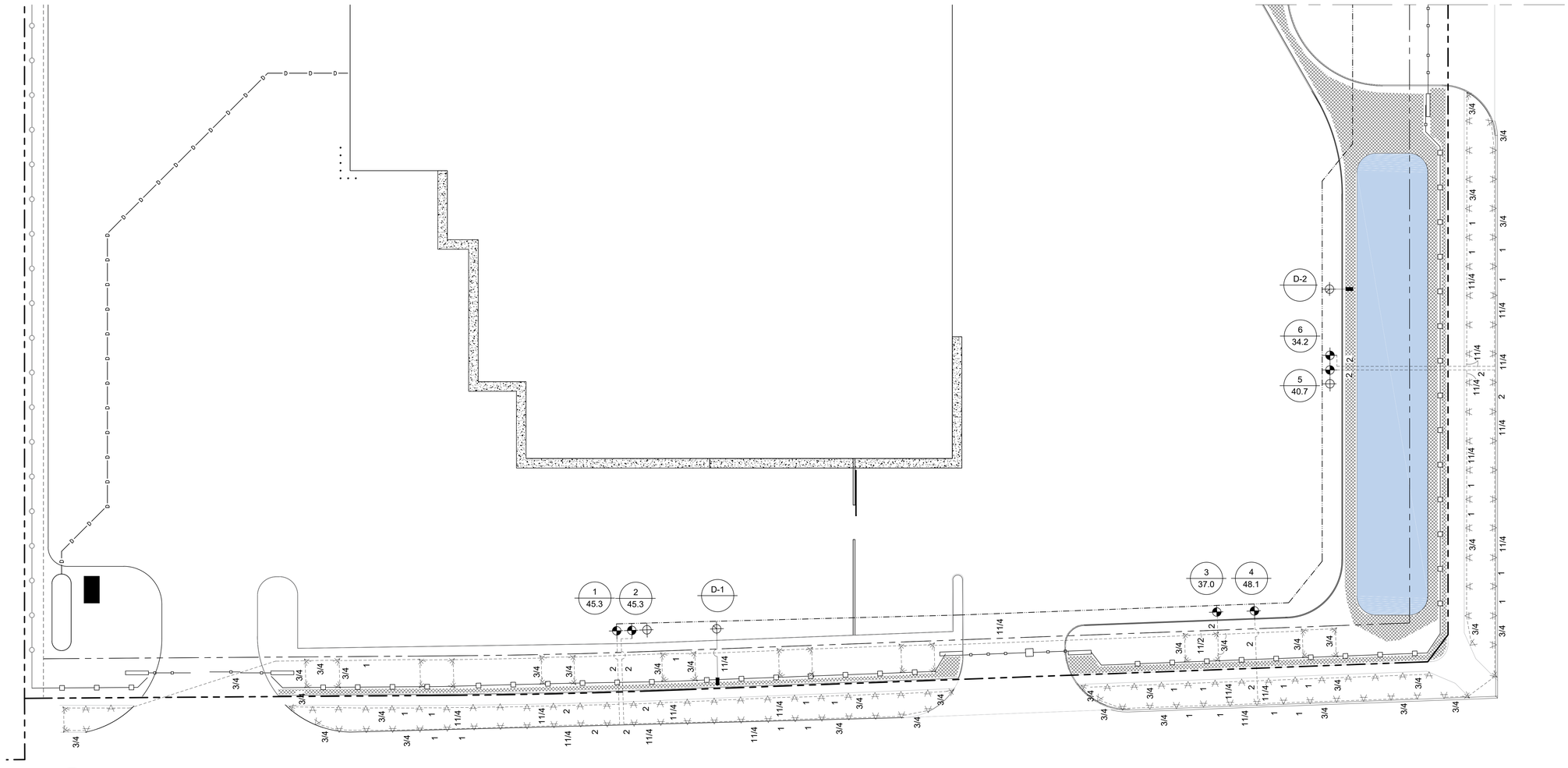
Rainbird 33-RC quick coupler valve in large round valve box

Line size isolation valve in large round valve box

Main connection: 1 1/2" Zurn Wilkins 975XL series reduced pressure (RP) backflow preventer, 2" Mueller stop & waste valve, and Rainbird 33 RC quick coupler valve,
(Install backflow in aluminum enclosure-meet all applicable plumbing codes)

Rainbird ESP-LXME/F-24 station exterior wall mount controller.
(confirm location with Architect)

Rainbird Rain Check automatic rain shut off, confirm location with Architect



ENLARGED WEST AREA PLANTING PLAN
1"=25'

JRCA
ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 N. 600 W.
SPANISH FORK, UTAH 84660

PROJECT #: 20044

CONSTRUCTION DOCUMENTS
08/30/2021

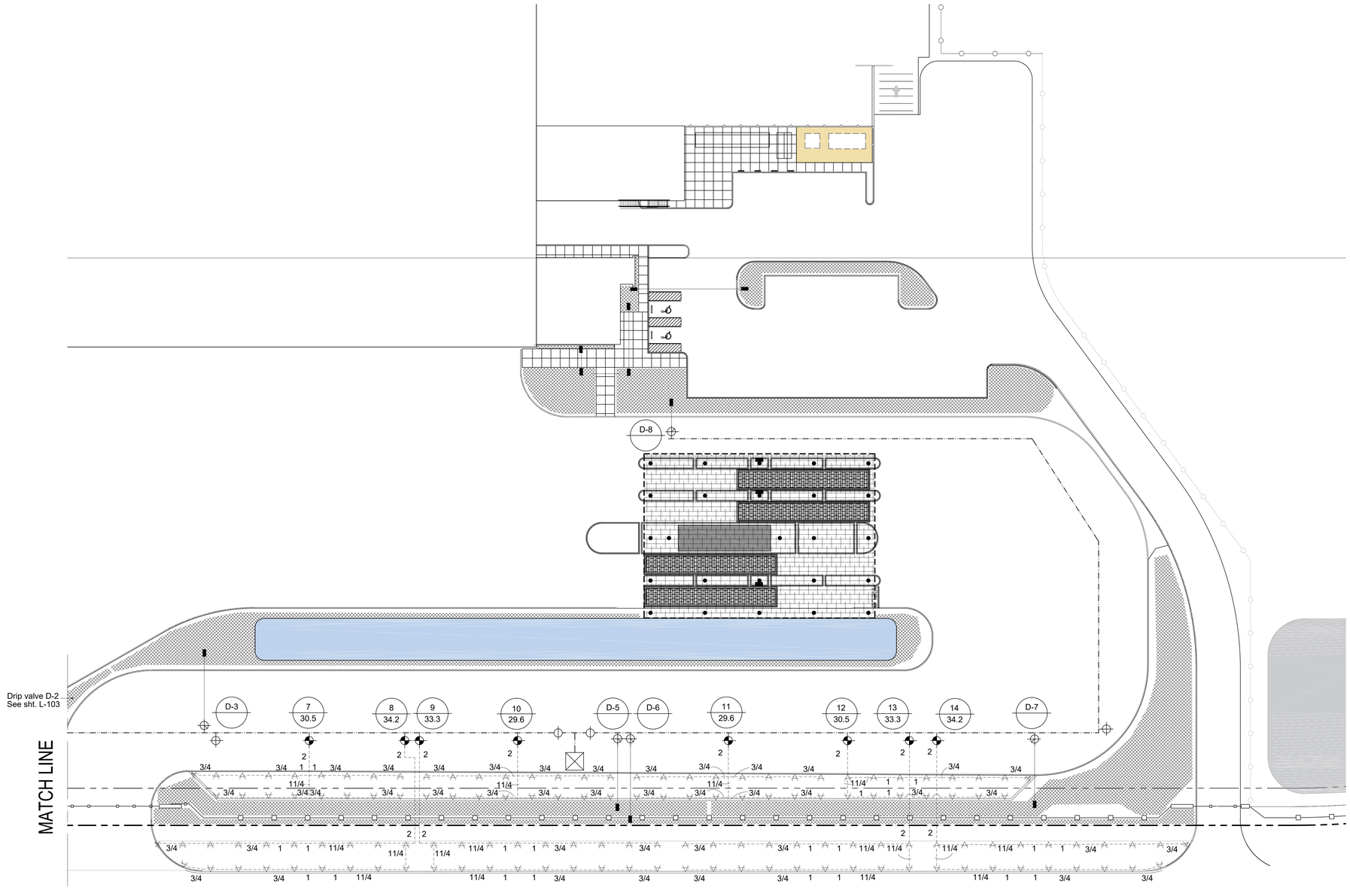
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LANDSCAPE ARCHITECT
JOHN T. SWAIN
162348-5301
State of Utah

ENLARGED IRRIGATION PLAN: WEST

L-103

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ENLARGED EAST AREA PLANTING PLAN

1"=25'

SPRINKLER LEGEND

TQ F H Q — Rainbird 1804-U15 series MPR pop-up spray head, half noz. 1.85 gpm @ 30 psi

1/2" distribution tubing (shown diagramatically on plan)
(use Sch. 40 PVC sleeve, min. 2 x line size under all hard surfaces)

Schedule 40 PVC 2" mainline
(use Sch. 40 PVC sleeve, min. 2 x line size under all hard surfaces)

Schedule 40 PVC lateral lines, sizes as noted
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Rainbird 33-RC quick coupler valve

Line size isolation valve in large round valve box

Main connection: 1 1/2" Zurn Wilkins 975XL series reduced pressure (RP) backflow preventer, 2" Mueller stop & waste valve, and Rainbird 33 RC quick coupler valve,
(install backflow in aluminum enclosure-meet all applicable plumbing codes)

Rainbird ESP-LXME/F-24 station exterior wall mount controller.
(confirm location with Architect)

Rainbird Rain Check automatic rain shut off, confirm location with Architect

0 50 100

NORTH

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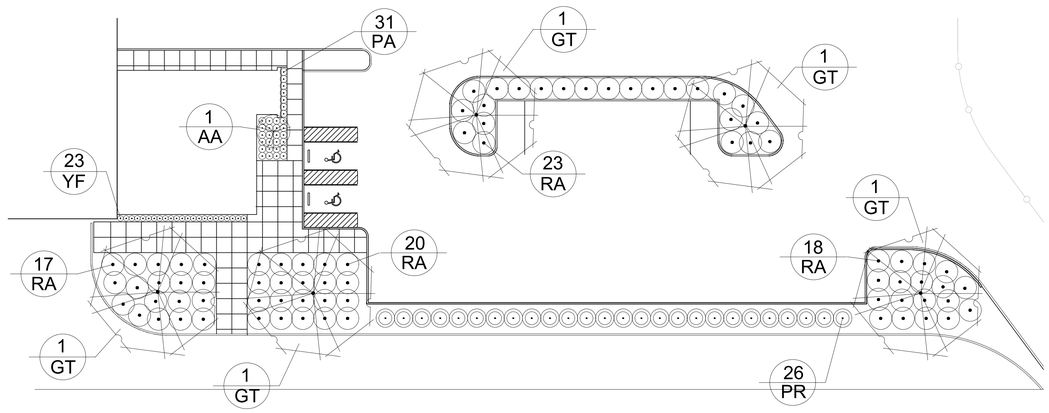
CONSTRUCTION DOCUMENTS 08/30/2021		
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LANDSCAPE ARCHITECT
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ENLARGED PLANTING PLAN EAST

L-104

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ENLARGED OFFICE AREA PLANTING PLAN
1"=20'

PLANT MATERIAL LIST

TREES

AA-Amelanchier alnifolia 'Autumn Brilliance', Serviceberry, 10-12' clump.
GT-Gleditsia triacanthos inermis 'Shademaster', Honeylocust, 2" cal.

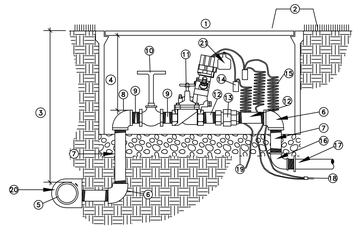
ORNAMENTAL GRASSES/PERENNIALS/GROUND COVER

PA-Pennisetum alopecuroides 'Hameln', Dwarf Fountain Grass, 5 gal.
PR-Perovskia atriplicifolia, Russian Sage, 5 gal.

SHRUBS

RA-Rhus aromatica 'Gro-Low', Gro-Low Sumac, 5 gal.
YF-Yucca filamentosa 'Color Guard', Color Guard Yucca, 5 gal.

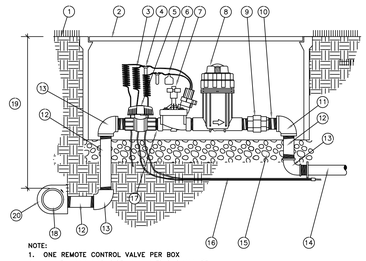
NORTH
0 50



NOTE:
1. ONE REMOTE CONTROL VALVE PER BOX
2. ALL FILLINGS AND PIPE IN MANIFOLD SHALL BE THREADED SCH. 80 PVC USING TEFLON TAPE AND #5 RECTOR SEAL

CONTROL VALVE ASSEMBLY
NTS

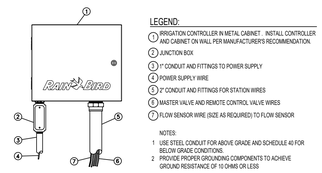
1. CARSON-BROOKS 1419-12 STANDARD OR 1220-12 JUMBO VALVE BOX WITH STAINLESS STEEL BOLTS. (BOLT DOWN LID). (MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION) INSTALL AT GRADE
2. INSTALL AT GRADE
3. 30" MAX. DEPTH
4. 10"-14"
5. MAIN WATER SUPPLY LINE
6. PVC SCH. 80 ELBOW
7. PVC SCH. 80 NIPPLE: LENGTH AS REQUIRED (TYP.)
8. PVC SCH. 80 ELL SAME SIZE AS VALVE
9. SCH. 80 NIPPLE ON EITHER SIDE OF GATE VALVE
10. MILWAUKEE BRAND OR APPROVED AMERICAN MADE BRASS GATE VALVE W/ NON RISING STEM (LINE SIZE)
11. ELECTRIC CONTROL VALVE - SEE EQUIPMENT SCHEDULE
12. SCH. 80 NIPPLE ON EITHER SIDE OF UNION
13. PVC SCH. 80 UNION
14. WATER TIGHT CONNECTORS (3M DBY ONLY)
15. PROVIDE 24" EXPANSION LOOP AT EACH WIRE CONNECTOR IN BOX.
16. SCH. 80 ELBOW WITH SCH. 80 NIPPLE INTO S X T BUSHING TO LATERAL
17. LATERAL LINE
18. CONTROL WIRES
19. 6" MIN. DEPTH CLEAN PEA GRAVEL
20. PVC SCH. 80 TEE SXSXS WITH SCH. 80 SXT BUSHING OR DOUBLE STRAP SADDLE.
21. ID TAG: RAINBIRD VID SERIES



NOTE:
1. ONE REMOTE CONTROL VALVE PER BOX
2. ALL FILLINGS AND PIPE IN MANIFOLD SHALL BE THREADED SCH. 80 PVC USING TEFLON TAPE AND #5 RECTOR SEAL

COMMERCIAL DRIP CONTROL ZONE KIT
NTS

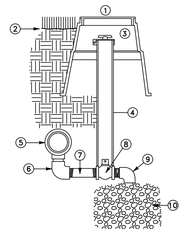
1. INSTALL AT GRADE
2. CARSON-BROOKS 1419-12 STANDARD OR 1220-12 JUMBO VALVE BOX WITH STAINLESS STEEL BOLTS. (BOLT DOWN LID). (MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION) INSTALL AT GRADE
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATER TIGHT CONNECTOR (3M DBY ONLY)
5. 1-INCH BALL VALVE
6. ID TAG (RAINBIRD VID SERIES)
7. ELECTRIC REMOTE DRIP CONTROL VALVE: SEE EQUIPMENT SCHEDULE
8. PRESSURE REGULATING QUICK CHECK BASKET FILTER RAINBIRD PRB-QKCHK-100
9. PVC SCH 80 UNION
9. PVC SCH 80 UNION
10. PVC SCH 80 NIPPLE, EITHER SIDE OF UNION
11. PVC SCH 80 ELL, SAME SIZE AS VALVE
12. PVC SCH 80 NIPPLE, LENGTH AS REQUIRED
13. SCH. 80 ELBOW WITH SCH. 80 NIPPLE INTO S X T BUSHING TO LATERAL
14. LATERAL LINE
15. 6" MIN. DEPTH CLEAN PEA GRAVEL
16. CONTROL WIRES
17. PVC NIPPLES, BOTH SIDES OF BALL VALVE
18. MAIN SUPPLY LINE
19. 30"MAXIMUM DEPTH
20. PVC SCH. 80 TEE SXSXS WITH SCH. 80 SXT BUSHING OR DOUBLE STRAP SADDLE.



LEGEND:
1. IRRIGATION CONTROLLER IN METAL CABINET. INSTALL CONTROLLER AND CABINET ON WALL PER MANUFACTURER'S RECOMMENDATION.
2. JUNCTION BOX
3. 1" CONDUIT AND FITTINGS TO POWER SUPPLY
4. POWER SUPPLY WIRE
5. 2" CONDUIT AND FITTINGS FOR STATION WIRES
6. MASTER VALVE AND REMOTE CONTROL VALVE WIRES
7. FLOW SENSOR WIRE (SIZE AS REQUIRED) TO FLOW SENSOR

NOTES:
1. USE STEEL CONDUIT FOR ABOVE GRADE AND SCHEDULE 40 FOR BELOW GRADE CONDITIONS.
2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS

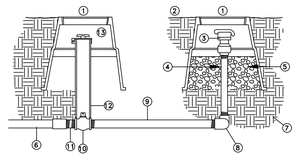
IRRIGATION CONTROLLER DETAIL
NTS



1. 10" ROUND VALVE BOX W/ LOCK BOLT, CARSON-BROOKS 910
2. FINISH GRADE
3. 906L WEATHERMATIC LOCKING VALVE CAP PERMANENTLY ATTACHED TO SLEEVE. TOP OF MARKER 4" - 6" BELOW GRADE
4. 2" PVC SCH. 40 SLEEVE NOTCHED OVER VALVE
5. PVC SCH. 80 TEE & MAIN LINE
6. 3/4" PVC SCH. 80 ELBOW
7. 3/4" PVC SCH. 80 NIPPLE (LENGTH AS REQUIRED)
8. 3/4" FORD B11333 BALL VALVE
9. 3/4" MARLEX STREET ELBOW
10. GRAVEL SUMP - 18" x 18" x 12" MIN. SIZE

NOTE:
1) ALL PVC NIPPLES TO BE SCH. 80
2) PROVIDE VALVE KEY TO OWNER

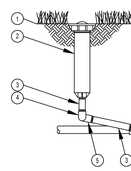
MANUAL DRAIN VALVE ASSEMBLY
NTS



1. 10" ROUND GREEN PLASTIC VALVE BOX, CARSON-BROOKS 910
2. INSTALL BOX AT FINISH GRADE IN TURF AREAS. 2" ABOVE GRADE IN PLANTING AREAS
3. QUICK COUPLER - SEE EQUIPMENT SCHEDULE RAINBIRD 44LRC (TYPICAL) (MOUNT 4 - 6" BELOW GRADE)
4. 1" GALVANIZED RISER, LENGTH AS REQUIRED
5. 6" MIN. DEPTH CLEAN PEA GRAVEL
6. MAIN SUPPLY LINE
7. SUB-GRADE COMPACTED TO 95% (TYP.)
8. 1" GALVANIZED DOUBLE ELBOW SWING JOINT
9. 1" GALVANIZED NIPPLE, MIN. LENGTH 24" BEFORE TRANSITION TO PVC PIPE
10. 1" BALL B11444 FORD VALVE
11. SCH. 80 NIPPLE
12. 2" SCH. 40 PVC SLEEVE NOTCHED OVER BALL VALVE
13. 906L WEATHERMATIC LOCKING VALVE CAP PERMANENTLY ATTACHED TO SLEEVE. TOP OF MARKER 4"-6" BELOW GRADE

NOTE: INSTALL (1) QUICK COUPLING VALVE AS SHOWN ON PLANS.

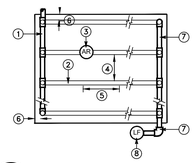
QUICK COUPLER VALVE ASSEMBLY
NTS



LEGEND

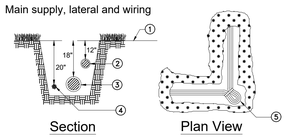
1. FINISH GRADE / TOP OF MULCH
2. 4" POP-UP SPRAY SPRINKLER SEE SPRINKLER LEGEND
3. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
4. PVC SCH 40 ELL
5. PVC SCH 40 STREET ELL
6. PVC SCH 40 TEE OR ELL
7. PVC LATERAL PIPE

POP-UP SPRINKLER HEAD
NTS



1. SUPPLY HEADER W/ PVC PIPE & FITTINGS
2. TECHLINE TUBING
3. RELIEF VALVE AT HIGH POINT
4. ROW SPACING PER PLAN
5. EMITTER SPACING PER PLAN
6. 2-4" FROM PAVING
7. EXHAUST HEADER W/ PVC PIPE & FITTINGS
8. LINE FLUSHING VALVE W/ PEA GRAVEL SUMP

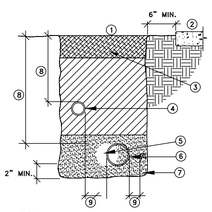
NETAFIM TECHLINE SCHEMATIC DETAIL
NTS



1. FINISH GRADE
2. LATERAL LINE
3. MAIN LINE
4. TUBING OR WIRING TAPE & BUNDLE @ 20' INTERVALS
5. TIE A LOOSE 20" LOOP IN ALL WIRING @ CHANGES OF DIRECTION GREATER THAN 30 DEGREES. UNTIE ALL LOOPS AFTER CONNECTIONS HAVE BEEN MADE.

Use 14 ga. copper wire and run extra wire to furthest manifolds.

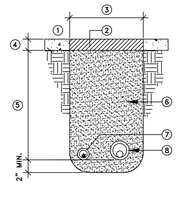
TRENCHING DETAIL
NTS



1. IF LAWN IS EXISTING, REPLACE SOD AS PER OWNER'S SPECIFICATIONS
2. ADJACENT HARD SURFACE
3. TOPSOIL FREE FROM ROCKS GREATER THAN 1" DIAMETER
4. NON-PRESSURE LATERAL LINE
5. PRESSURE MAIN LINE
6. DIRECT BURIAL, LOW VOLTAGE CONTROL WIRES; TAPE AND BUNDLE AT 10' O.C. PLACE 6" EITHER SIDE OF PIPE OR 6" BELOW.
7. MORTAR SAND BEDDING 2" BELOW AND ABOVE PIPE
8. PIPE DEPTHS:
   MAIN LINE: 18 - 30" COVER
   LATERAL LINE: 8 - 14" COVER
   MINIMUM 6" SEPARATION BETWEEN LINES
9. PIPE SPACING:
   MINIMUM 6" SEPARATION BETWEEN LINES

NOTE: SEE SLEEVING DETAIL FOR TRENCHING IN PAVED AREAS.

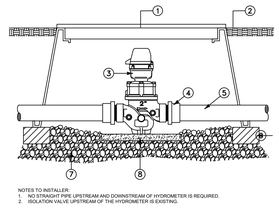
TRENCH DETAIL
NTS



1. EXISTING CONCRETE / ASPHALT
2. SAWCUT & PATCH CONCRETE/ ASPHALT AS REQUIRED
3. WIDTH AS REQUIRED
4. 51/2" DEPTH FOR CONCRETE 3" DEPTH FOR ASPHALT
5. DEPTH AS REQUIRED TO MATCH MAINLINE (18"-30") OR LATERAL (8"-14") PIPING OR CONTROL WIRES (18"-30")
6. COMPACTED BACKFILL FREE FROM ROCKS GREATER THAN 1" IN DIAMETER.
7. CONTROL WIRES 6" TO EITHER SIDE OR 6" UNDER MAINLINE.
8. PVC MAIN LINE/LATERAL

NOTES:
- SLEEVES 4" AND SMALLER USE PVC SCH. 40 PIPE.
- SLEEVES >4" USE PVC SEWER PIPE
- ALL SLEEVES SHALL BE 2" LARGER THAN PIPE TO BE SLEEVED.

SLEEVING DETAIL
NTS



NOTES TO INSTALLER:
1. NO STRAIGHT PIPE UPSTREAM AND DOWNSTREAM OF HYDROMETER IS REQUIRED.
2. ISOLATION VALVE UPSTREAM OF THE HYDROMETER IS EXISTING.

1 1/2" HYDROMETER DETAIL
NTS

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PROJECT #: 20044

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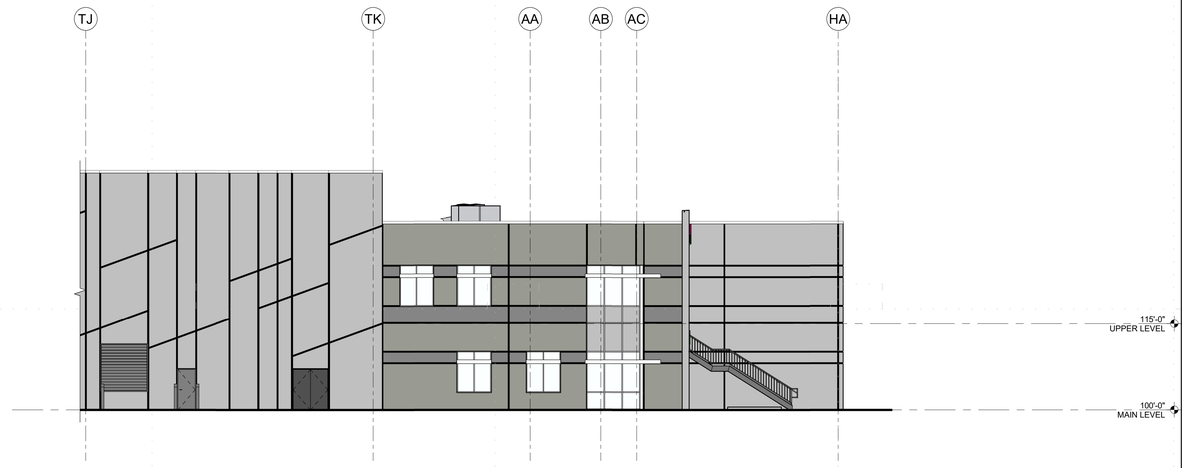
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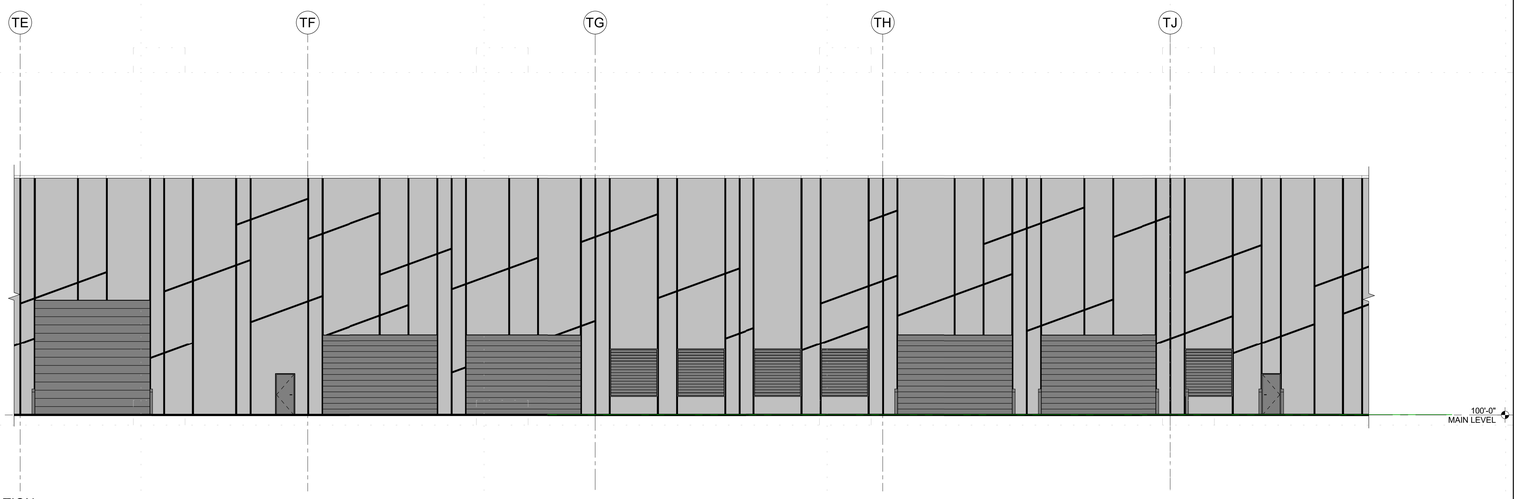
LANDSCAPE DETAILS

L-105

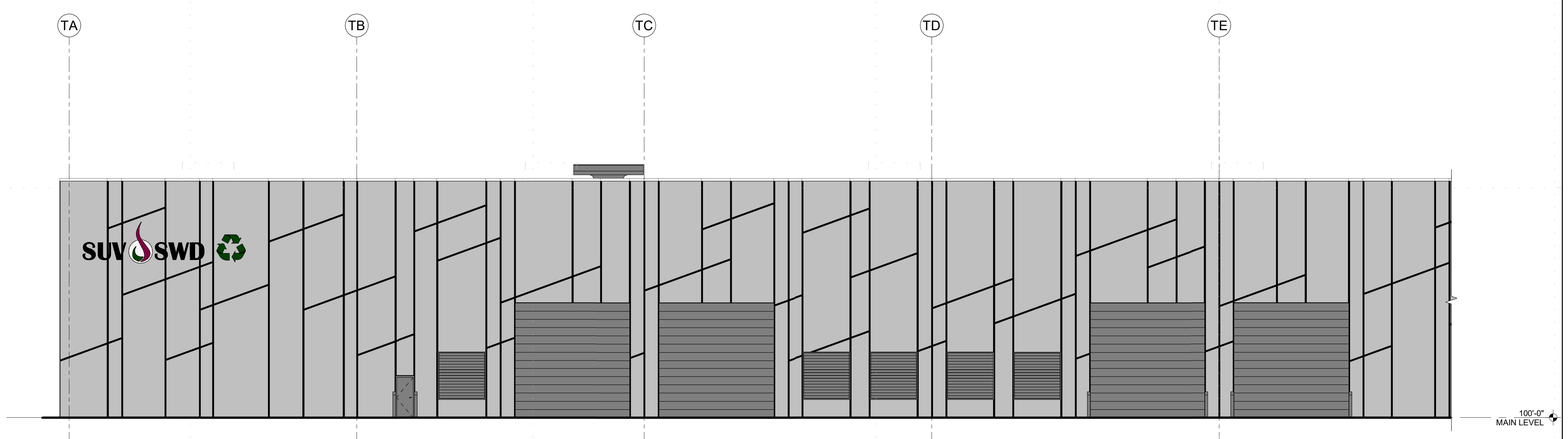
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D4 / AE201 PARTIAL SOUTH ELEVATION
SCALE 3/32" = 1'-0"



B5 / AE201 PARTIAL SOUTH ELEVATION
SCALE 3/32" = 1'-0"



A5 / AE201 PARTIAL SOUTH ELEVATION
SCALE 3/32" = 1'-0"

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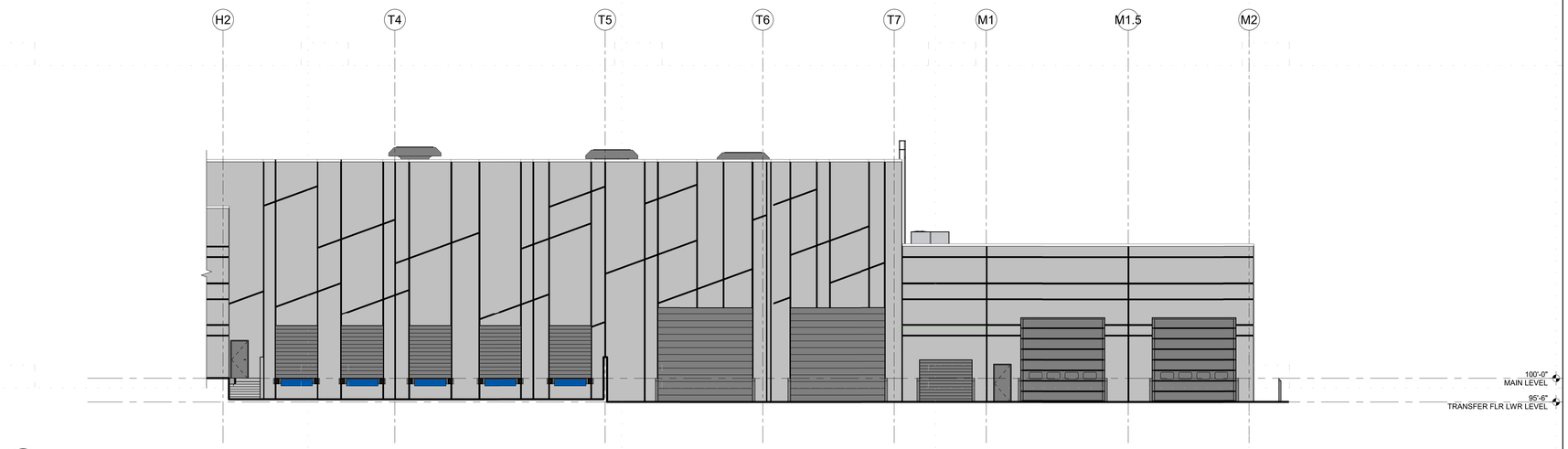
BID / PERMIT SET 10/01/2021		
△	DATE	REVISION

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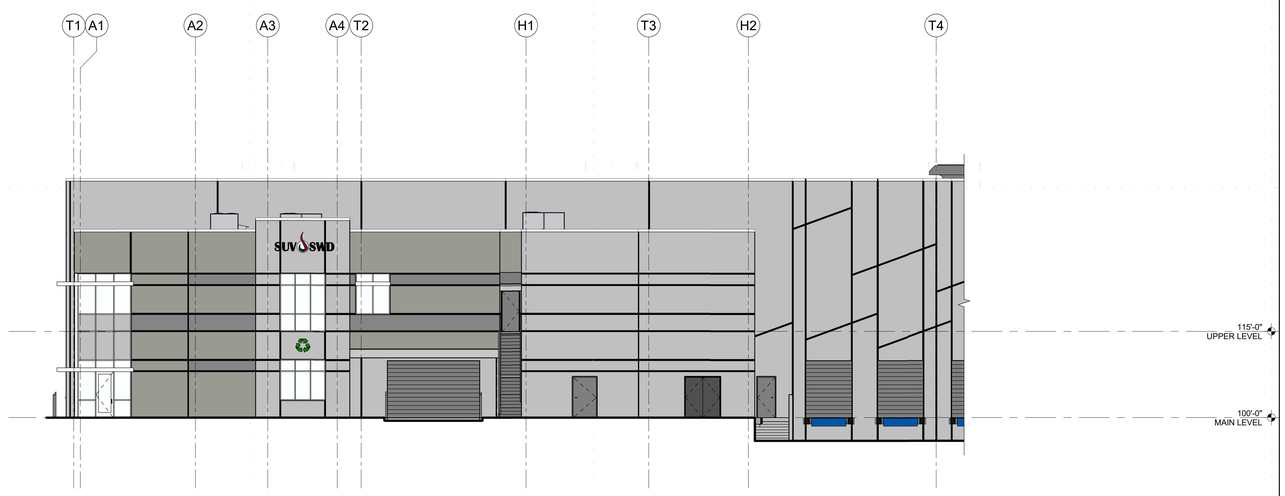
OVERALL SOUTH ELEVATION

AE201

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B5 / AE202 PARTIAL EAST ELEVATION
SCALE 3/32" = 1'-0"



A4 / AE202 PARTIAL EAST ELEVATION
SCALE 3/32" = 1'-0"

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SUVSWD ENVIRONMENTAL RECOVERY FACILITY

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BID / PERMIT SET
10/01/2021

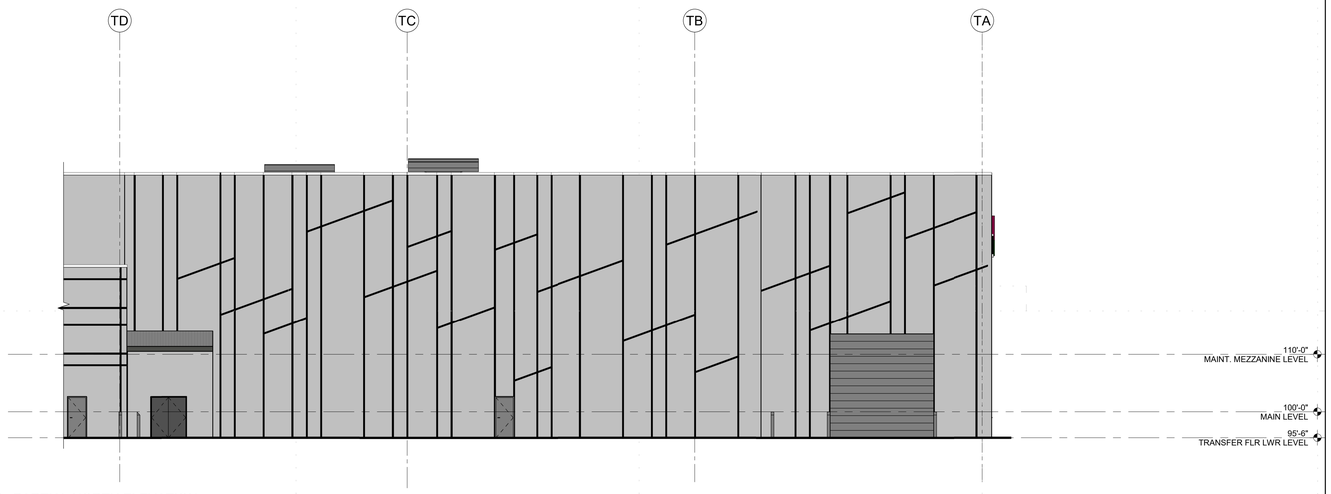
	DATE	REVISION

VIEW AND PRINT THIS SHEET IN COLOR

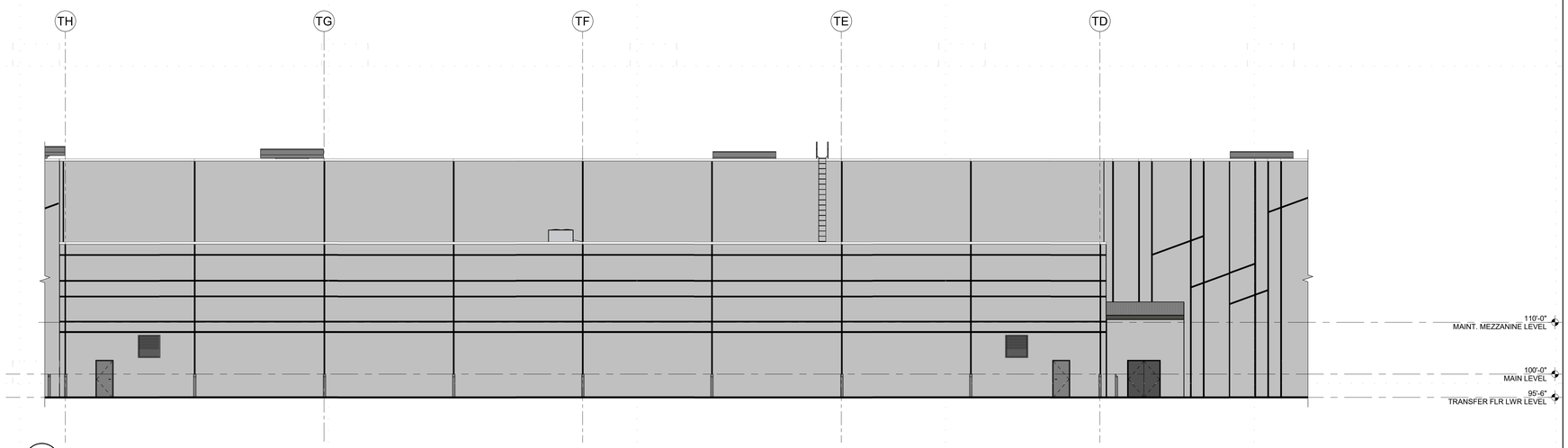
OVERALL EAST ELEVATION

AE202

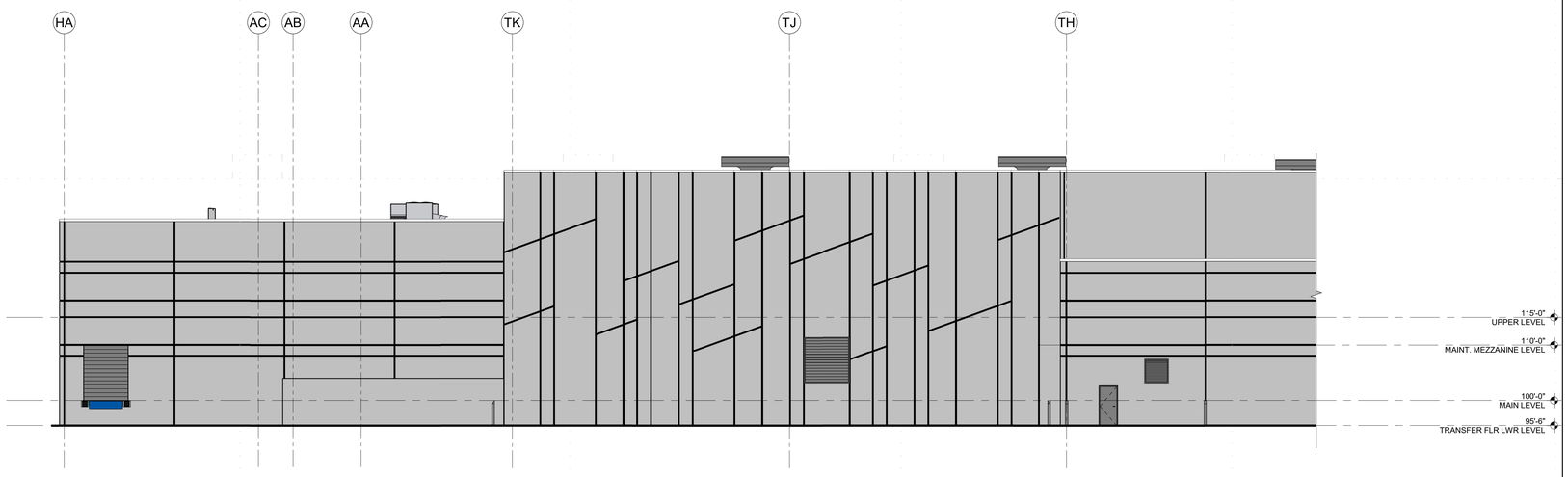
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C4 / AE203 PARTIAL NORTH ELEVATION
SCALE 3/32" = 1'-0"



B5 / AE203 PARTIAL NORTH ELEVATION
SCALE 3/32" = 1'-0"



A5 / AE203 PARTIAL NORTH ELEVATION
SCALE 3/32" = 1'-0"

JRCA
ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 N. 600 W.
SPANISH FORK, UTAH 84660

PROJECT #: 20044

BID / PERMIT SET
10/01/2021

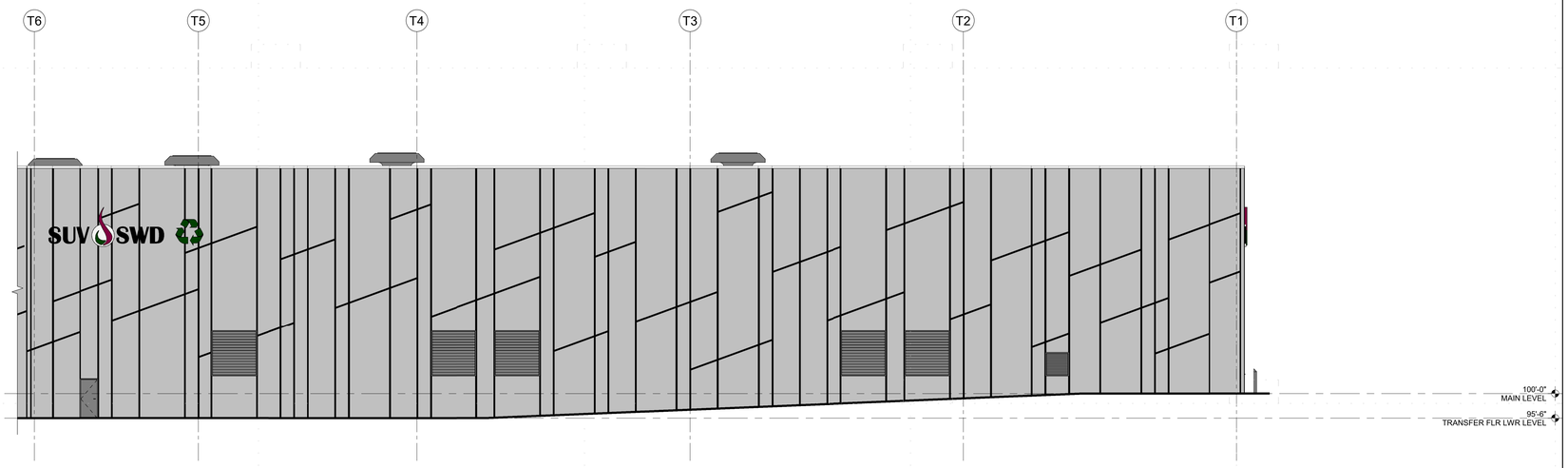
	DATE	REVISION

VIEW AND PRINT THIS SHEET IN COLOR

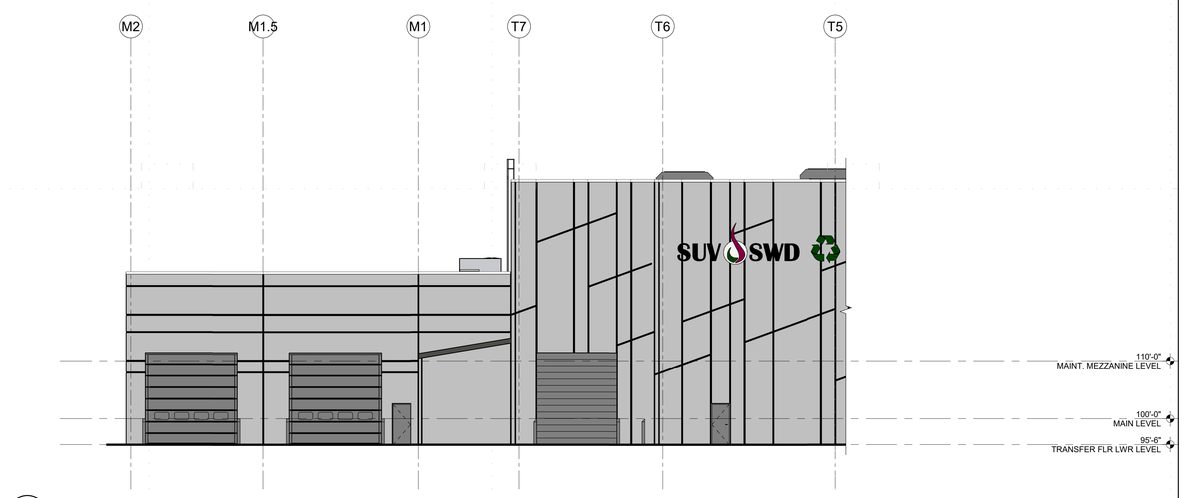
OVERALL NORTH ELEVATION

AE203

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B5 / AE204 PARTIAL WEST ELEVATION
SCALE 3/32" = 1'-0"



A4 / AE204 PARTIAL WEST ELEVATION
SCALE 3/32" = 1'-0"

JRCA
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577 South 200 East
S L C, Utah 84111
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SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 N. 600 W.
SPANISH FORK, UTAH 84660

PROJECT #: 20044

BID / PERMIT SET 10/01/2021		
△	DATE	REVISION

VIEW AND PRINT THIS SHEET IN COLOR

OVERALL WEST ELEVATION

AE204

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FORSGREN Associates Inc.

SUV SWD



FORSGREN Associates Inc.

SUV SWD



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SUV SWD

SUVSWD New Environmental Recovery and Transfer Center

STATEMENT OF USE

South Utah Valley Solid Waste District
2450 W. 400 S.
Springville, UT 84663
www.suvswd.org
801-489-3027

FORSGREN Associates Inc.
370 E. 500 S. Ste 200
Salt Lake City, UT 84111
www.forsgren.com
801-364-4785

January 2022

SUVSWD is in the south end of Utah County, and is made up of several member municipalities, including Provo, Springville, Spanish Fork, Mapleton, Salem, Woodland Hills, and Goshen. In 1990, SUVSWD opened its doors to a new transfer station in Springville designed to serve each of its member cities, excluding Goshen who transports its city's waste directly to Bayview landfill.

Due to the rapid population growth seen throughout the south end of Utah County, the District is now disposing of more than 200,000 tons per year of solid waste. SUVSWD has purchased land in Spanish Fork to construct a New Environmental Recovery and Transfer Center to meet the growing solid waste needs for the district's member cities. The 23-acre green-field property is located at approximately 3450 North 550 West, Spanish Fork, UT.

This new facility is designed with safety and efficiency at the forefront. Self-haul and public access will be separate from commercial and curbside collection vehicles, including separate entrances. Public access will be from the newly constructed 3450 North roadway. Commercial and hauling access will be from the newly constructed 600 West roadway. The facility will utilize (3) three side load compactors to efficiently compact and transfer waste from the tipping floor to hauling vehicles. All waste operations will take place inside the fully enclosed 110,000 square foot building. Household hazardous waste (HHW) will be contained and processed inside its own adjacent building.

The new state-of-the-art facility is designed to be a tilt-up concrete structure. Other onsite structures include a maintenance building, HHW building, administration building, scale house, and other site structures. Sizing is based on average and peak day throughputs of 1,000 and 1,600 tons/day, respectively.

Hours of Operation

SUVSWD expects to continue operating the same as its existing facility. The following hours of operation are anticipated:

- Mon-Sat 7am-6pm
- Closed Sunday
- Closed on Major Holidays

Traffic Volumes

A traffic impact study was completed by Hales Engineering to analyze anticipated traffic flows on the new roadway, this study can be provided at the City's request. Future peak data assumes the following:

- 137 trips/hour during the morning peak hour
- 118 trips/hour during the evening peak hour
- 40 hauling trips/day

Number of Employees

SUVSWD expects to continue with similar staffing numbers as currently utilized at the existing facility. Additional staff may be added in the future as needed for hauling and operations. SUVSWD currently staffs between 35-40 employees.

FORSGREN Associates Inc.

PREPARED FOR:	Spanish Fork City
PREPARED BY:	Nick Patterson, PE, Forsgren Associates
CC:	Terr Ficklin, SUVSWD District Manager
DATE:	February 25, 2022
SUBJECT:	SUVSWD ERF – Site Plan Comment Resolution



Community Development Comments:

- We need a description of the operational steps that will be taken to mitigate the potential impact that this facility will have on the community. This may include information on equipment that will be employed to reduce odors, regulations pertaining to uncovered loads, truck routes, hours of operation and information about how long garbage will be kept on-site.

SUVSWD/Forsgren Associates Response:

- Odor Reduction/Mitigation:
  - The new Transfer Station facility includes dust and odor control by way of a water/enzyme misting system supplied by FOGCO. The FOGCO system is divided into (3) independently controlled zones over the transfer station tipping floor to provide the owner flexibility in controlling dust and delivery of the odor controlling solution. Odors
    - Priority zone 1 is located over the main commercial waste drop off area and will operate the majority of open hours.
    - Priority zones 2 and 3 are located over the self-haul/public drop areas. These are controlled remotely and will be used as needed for odor and dust control.
    - The images shown below present the pump system and provide an example of a similar transfer station odor control system in operation.

Figure 1 - FOGCO Odor/Misting System



Figure 2 - Seattle North TS Misting/Odor Control System



- Uncovered Load Regulations:
  - SUVSWD's current policy requires that all loads are covered, this is a Utah state law. Uncovered loads are charged an additional $4 fee on top of the load fee.
  - Member cities are encouraged to help educate residents on the importance of covering waste loads when coming to the transfer station.
  - This policy will remain intact at the new facility and reviewed periodically to ensure fees and policies remain effective.

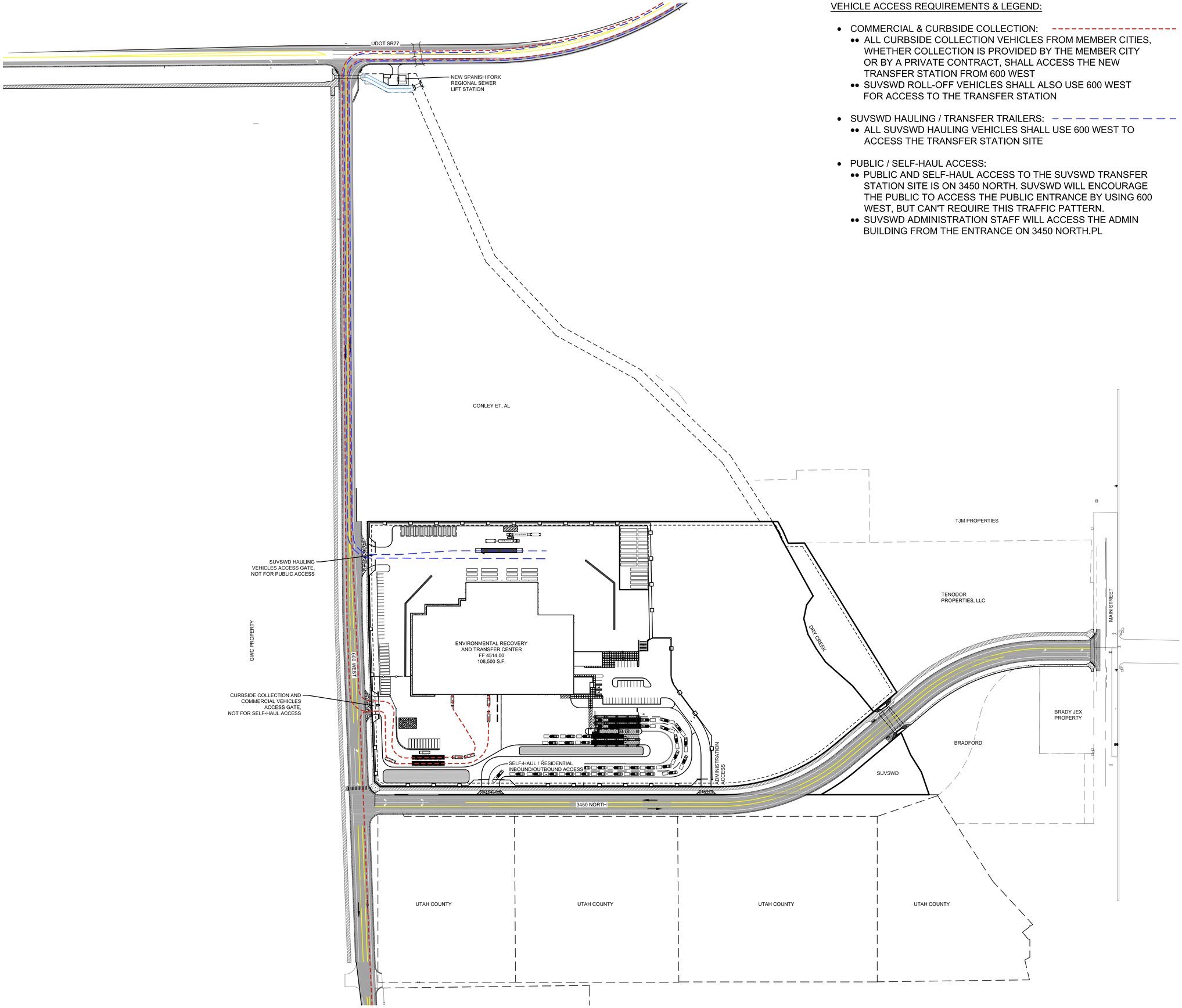
- Truck and Vehicle Routes:
  - Inbound / outbound access points have been purposefully located on 600 West and 3450 North to help direct main flows of traffic to 600 West. See the attached traffic circulation exhibit.
    - Cities providing their own curbside collection will be encouraged to adopt traffic routes where curbside collection vehicles use SR77 and 600 West as their only access routes.
    - Cities who contract curbside collection to private haulers will be encouraged to add language in their contracts requiring curbside collection vehicles to use SR77 and 600 West as their only access routes.
    - SUVSWD hauling trucks will only use 600 West and SR77 as their access points.
    - Self-haul and public vehicles will be encouraged to utilize 600 west.
    - Signage will be provided by SUVSWD on 600 West and 3450 North at locations directed by Spanish Fork City.

- Site and Facility Design Enhancements:
    - Curbside collection vehicles, hauling trucks, and public traffic will each have their own entrances, scales, and drop off areas inside the facility. This key feature will provide an elevated level of safety for residents coming to the transfer station, faster transaction times, and quicker drop off times.
    - Public scales will be fully covered with a canopy.
    - Electric charging stations will be installed at the administration building.

- The administration building will include an educational room where SUVSWD can teach the public about solid waste and hold board meetings.
- The Household Hazardous Waste building will safely process and dispose of HHW items brought by residents.
- The HHW building also includes a document shredding room that is open to the public for safe disposal of sensitive items.
- The transfer station has a sophisticated HVAC system where air is circulated continuously and changed 6 times per hour. The system creates negative pressure into the facility as the roll-up doors open to keep trash from exiting.
- Both the residential and commercial side are equipped with fast-acting rubber roll-up doors to keep the facility well contained during operating hours.
- Landscaping and road cleanup are currently part of the SUVSWD yearly budget. This will continue at the new facility with cleanup and landscaping services contracted with an outside provider, in order to keep roadways and landscaping up to Spanish Fork City standards.

- Hours of Operation:
  - Hours of operation will be Monday through Saturday from 7am – 6pm.
  - Closed Sundays and Holidays

- Keeping Waste Onsite:
  - All waste is stored, processed, and compacted inside the new 109,000 square foot transfer station building, or inside 53-foot trailers attached to the loading docks.
  - During normal hours of operation, municipal solid waste (MSW) is removed within a couple hours of arriving at the facility.
  - Bayview landfill closes at 4:30pm, so waste received at the transfer station after 3pm will be loaded into hauling trailers and staged for delivery first thing the following morning.
  - Waste collected on Saturdays is stored in hauling trailers until Monday morning.
  - The following presents typical waste removal intervals:
    - MSW: Daily (24-30 loads per day)
    - Recycling: Daily (2-3 loads per day)
    - C&D: Daily (1-2 loads per day)
    - White Goods: Weekly
    - E-Waste (Electronics) Weekly
    - Tires: Weekly
    - Metals: Daily
    - HHW: Weekly
    - Mattresses: Weekly



VEHICLE ACCESS REQUIREMENTS & LEGEND:

- COMMERCIAL & CURBSIDE COLLECTION:
  - ALL CURBSIDE COLLECTION VEHICLES FROM MEMBER CITIES, WHETHER COLLECTION IS PROVIDED BY THE MEMBER CITY OR BY A PRIVATE CONTRACT, SHALL ACCESS THE NEW TRANSFER STATION FROM 600 WEST
  - SUVSWD ROLL-OFF VEHICLES SHALL ALSO USE 600 WEST FOR ACCESS TO THE TRANSFER STATION
- SUVSWD HAULING / TRANSFER TRAILERS:
  - ALL SUVSWD HAULING VEHICLES SHALL USE 600 WEST TO ACCESS THE TRANSFER STATION SITE
- PUBLIC / SELF-HAUL ACCESS:
  - PUBLIC AND SELF-HAUL ACCESS TO THE SUVSWD TRANSFER STATION SITE IS ON 3450 NORTH. SUVSWD WILL ENCOURAGE THE PUBLIC TO ACCESS THE PUBLIC ENTRANCE BY USING 600 WEST, BUT CAN'T REQUIRE THIS TRAFFIC PATTERN.
  - SUVSWD ADMINISTRATION STAFF WILL ACCESS THE ADMIN BUILDING FROM THE ENTRANCE ON 3450 NORTH.PL

N

GRAPHIC SCALE

0' 50' 100' 200' 300'

Scale: 1"=100'

100% DESIGN

JRCA ARCHITECTS
577 South 200 East
S L C, Utah 84111
ph: (801) 533-2100
jrcadesign.com

FORSGREN Associates Inc.
370 EAST 500 SOUTH, STE 200, SALT LAKE CITY, UT 84111
PH: 801.364.4755 FAX: 801.364.4662

SUVSWD ENVIRONMENTAL RECOVERY FACILITY

3450 NORTH 500 WEST
SPANISH FORK, UT 84660

FA PROJECT # 05-19-0115

PROJECT #:05-19-0115

PROJECT STATUS

DATE	REVISION
	JAN 2022

LICENSED PROFESSIONAL ENGINEER
NO. 10288921-2202
NICHOLAS A. PATTERSON
STATE OF UTAH

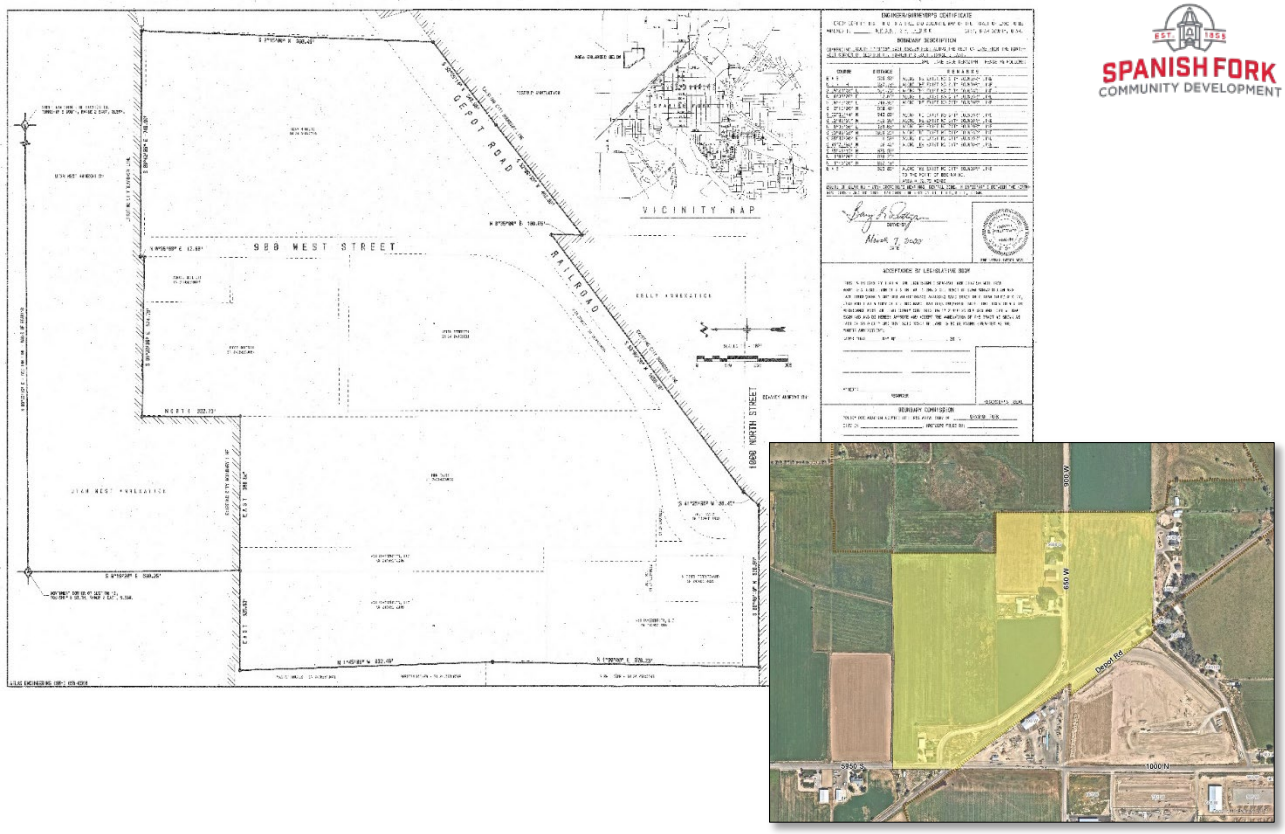
VIEW AND PRINT THIS SHEET IN COLOR

SUVSWD TRAFFIC PATTERN

EX-1

1 OF 1

P:\2019\05-19-0115 South Utah Valley Solid Waste District\ENGINEERING_Permitting\Conditional Use Permit\05-19-0115_Traffic Circulation.dwg - ---- - 2/25/2022 12:27 PM



Oberg Annexation Acceptance for Further Study

March 9, 2022, Development Review Committee Meeting

Located at approximately 1400 North 900 West, including 70.75 acres.

The subject property is currently outside City boundaries.

The applicant has requested that the Annexation be considered for further study.

Recommendation

That the proposed Annexation be accepted for further study based on the following finding:

Finding

1. That the subject property is located within the City's Annexation Policy.

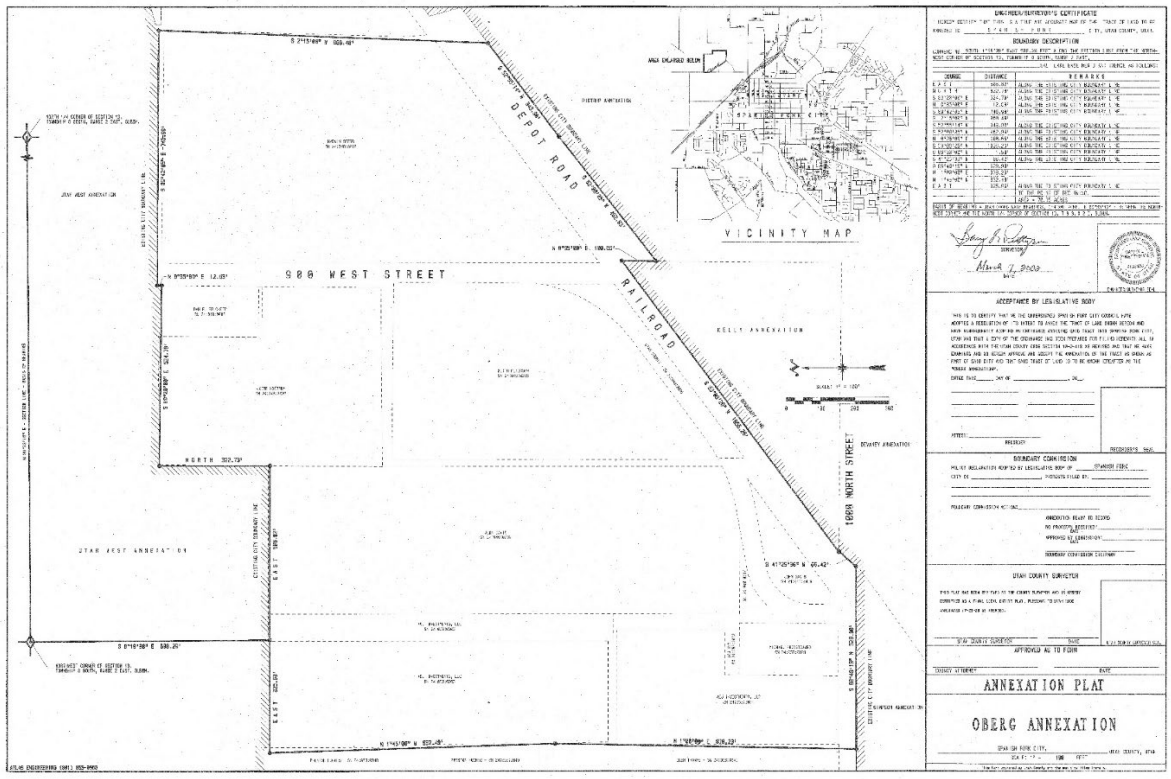
Key Issues

1. Annexation Configuration.
2. Utah County Approval.
3. Growth Management Boundary.
4. Proposed Land Uses and Zoning.
5. Utilities and Services.
6. Improvements.

Exhibits

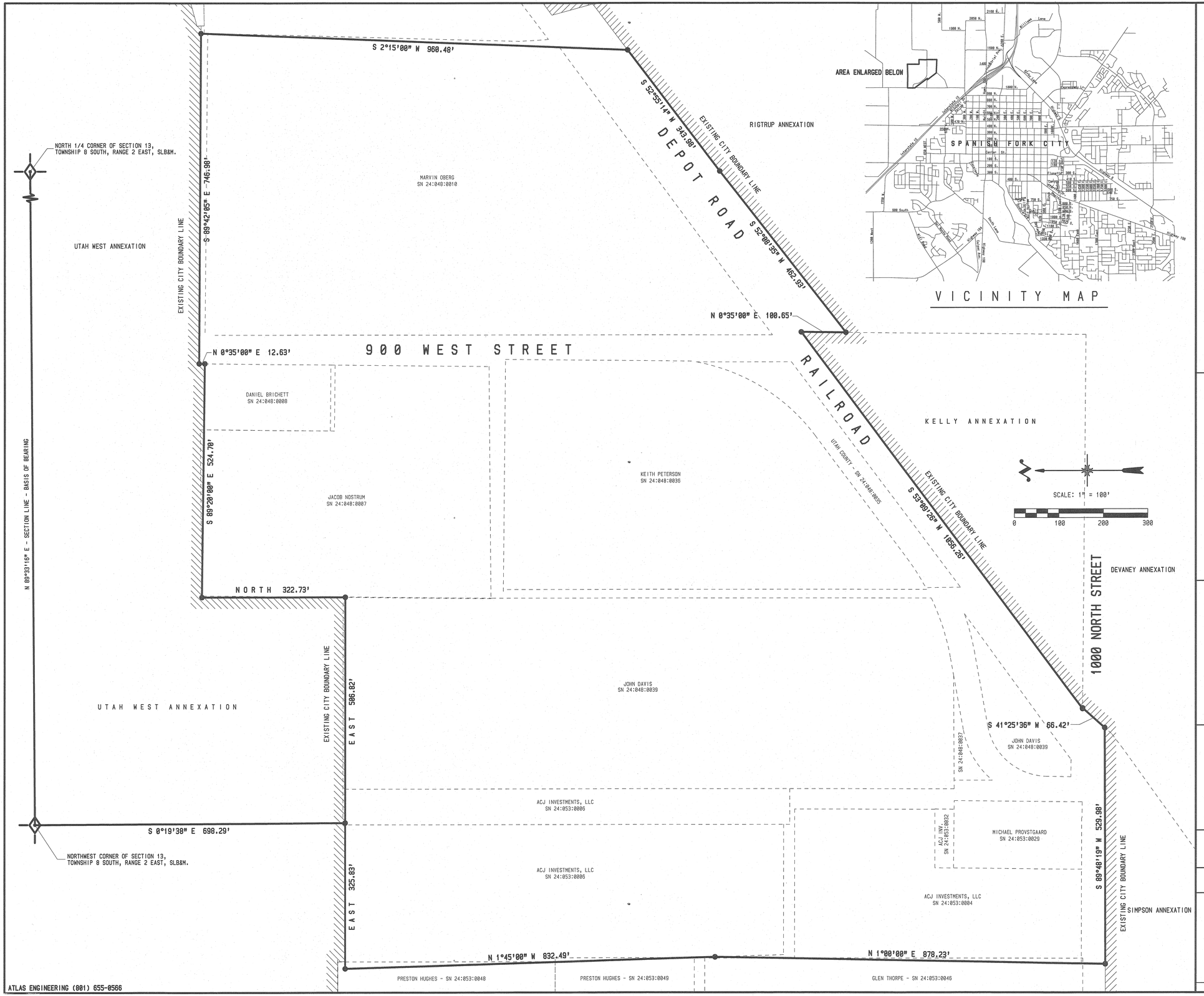
1. Annexation Plat.
2. Annexation image.

Exhibit 1



March 9, 2022


900 W
650 W
Depot Rd
5950 S
1000 N
5688 S
5733 S
1262 N
1250 N
1228 N
5851 S
908 W
902 N
861 W
751 W
755 W
665 W
589 W
583 W
561 W
560 W



ATLAS ENGINEERING (801) 655-0566

ENGINEER/SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE MAP OF THE TRACT OF LAND TO BE ANNEXED TO SPANISH FORK CITY, UTAH COUNTY, UTAH.

BOUNDARY DESCRIPTION

COMMENCING SOUTH 1°19'39" EAST 698.29 FEET ALONG THE SECTION LINE FROM THE NORTHWEST CORNER OF SECTION 13, TOWNSHIP 8 SOUTH, RANGE 2 EAST, SALT LAKE BASE MERIDIAN; THENCE AS FOLLOWS:

COURSE	DISTANCE	REMARKS
EAST	506.82'	ALONG THE EXISTING CITY BOUNDARY LINE
NORTH	322.73'	ALONG THE EXISTING CITY BOUNDARY LINE
S 89°20'00" E	524.70'	ALONG THE EXISTING CITY BOUNDARY LINE
N 0°35'00" E	12.63'	ALONG THE EXISTING CITY BOUNDARY LINE
S 89°42'05" E	746.98'	ALONG THE EXISTING CITY BOUNDARY LINE
S 2°15'00" W	960.48'	
S 52°55'14" W	343.98'	ALONG THE EXISTING CITY BOUNDARY LINE
S 52°08'35" W	462.93'	ALONG THE EXISTING CITY BOUNDARY LINE
N 0°35'00" E	100.65'	ALONG THE EXISTING CITY BOUNDARY LINE
S 53°09'26" W	1056.26'	ALONG THE EXISTING CITY BOUNDARY LINE
S 89°30'00" E	1.53'	ALONG THE EXISTING CITY BOUNDARY LINE
S 41°25'36" W	66.42'	ALONG THE EXISTING CITY BOUNDARY LINE
S 89°48'19" W	529.98'	
N 1°00'00" E	878.23'	
N 1°45'00" W	832.49'	
EAST	325.83'	ALONG THE EXISTING CITY BOUNDARY LINE
		TO THE POINT OF BEGINNING.
		AREA = 70.75 ACRES

BASIS OF BEARING = UTAH COORDINATE BEARINGS, CENTRAL ZONE. N 89°33'16" E BETWEEN THE NORTHWEST CORNER AND THE NORTH 1/4 CORNER OF SECTION 13, T 8 S, R 2 E, SLB&M.

SURVEYOR

March 7, 2023
DATE

BARRY L. PRETTYMAN #166406 REGISTERED LAND SURVEYOR STATE OF UTAH

ENGINEER/SURVEYOR SEAL

ACCEPTANCE BY LEGISLATIVE BODY

THIS IS TO CERTIFY THAT WE THE UNDERSIGNED SPANISH FORK CITY COUNCIL HAVE ADOPTED A RESOLUTION OF ITS INTENT TO ANNEX THE TRACT OF LAND SHOWN HEREON AND HAVE SUBSEQUENTLY ADOPTED AN ORDINANCE ANNEXING SAID TRACT INTO SPANISH FORK CITY, UTAH AND THAT A COPY OF THE ORDINANCE HAS BEEN PREPARED FOR FILING HEREWITH ALL IN ACCORDANCE WITH THE UTAH COUNTY CODE SECTION 10-2-418 AS REVISED AND THAT WE HAVE EXAMINED AND DO HEREBY APPROVE AND ACCEPT THE ANNEXATION OF THE TRACT AS SHOWN AS PART OF SAID CITY AND THAT SAID TRACT OF LAND IS TO BE KNOWN HEREAFTER AS THE "OBERG ANNEXATION".

DATED THIS_____ DAY OF _____, 20__.

_____ _____

_____ _____

_____ _____

ATTEST:_____
RECORDER

RECORDER'S SEAL

BOUNDARY COMMISSION

POLICY DECLARATION ADOPTED BY LEGISLATIVE BODY OF SPANISH FORK

CITY ON _____, PROTESTS FILED BY: _____

BOUNDARY COMMISSION ACTION:_____

ANNEXATION READY TO RECORD

NO PROTESTS RECEIVED:_____
DATE

APPROVED BY COMMISSION:_____
DATE

_____
BOUNDARY COMMISSION CHAIRMAN

UTAH COUNTY SURVEYOR

THIS PLAT HAS BEEN REVIEWED BY THE COUNTY SURVEYOR AND IS HEREBY CERTIFIED AS A FINAL LOCAL ENTITY PLAT, PURSUANT TO UTAH CODE ANNOTATED 17-23-20 AS AMENDED.

_____ _____
UTAH COUNTY SURVEYOR DATE

UTAH COUNTY SURVEYOR SEAL

APPROVED AS TO FORM

_____ _____
COUNTY ATTORNEY DATE

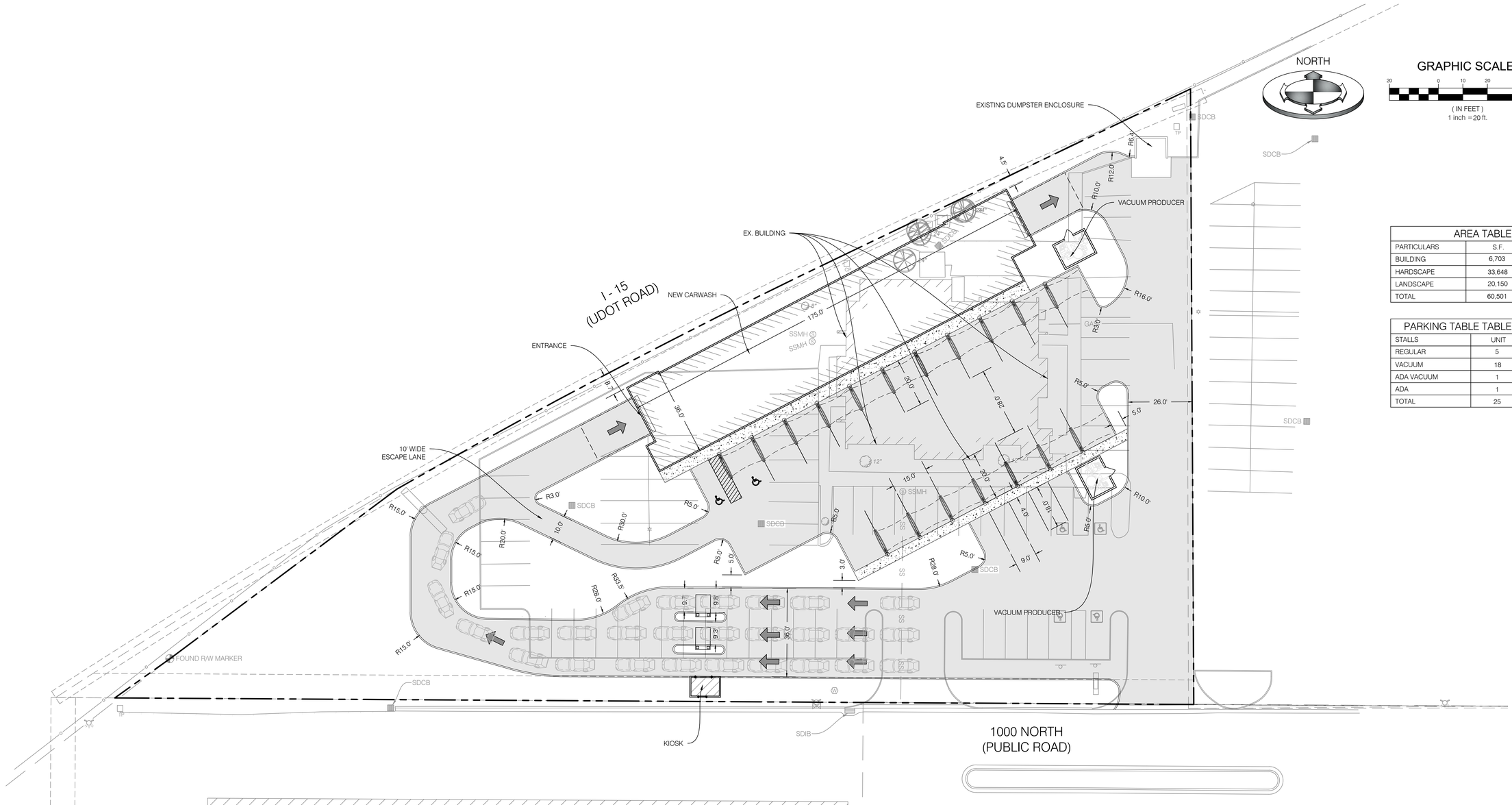
ANNEXATION PLAT

OBERG ANNEXATION

SPANISH FORK CITY, UTAH COUNTY, UTAH

SCALE: 1" = 100 FEET

This form approved by Utah County and the municipalities therein.



AREA TABLE		
PARTICULARS	S.F.	%
BUILDING	6,703	11.1
HARDSCAPE	33,648	55.6
LANDSCAPE	20,150	33.3
TOTAL	60,501	100

PARKING TABLE TABLE	
STALLS	UNIT
REGULAR	5
VACUUM	18
ADA VACUUM	1
ADA	1
TOTAL	25

NOTE:
THE CONCEPTUAL PLANS PROVIDED ARE NOT REPRESENTATIVE OF A COMPLETE OR FINAL DESIGN. IT IS YOUR RESPONSIBILITY TO CONTRACT WITH A PROFESSIONAL THAT IS LICENSED IN THIS STATE TO COMPLETE A DESIGN THAT CONFORMS TO REQUIRED LOT SIZES, SETBACKS, ROAD WIDTHS, UTILITIES, CITY ORDINANCES, ETC. THE RECIPIENT ASSUMES FULL RESPONSIBILITY AND HOLDS BENCHMARK ENGINEERING AND LAND SURVEYING, LLC HARMLESS OF ANY AND ALL LOSSES OR DAMAGES RESULTING FROM YOUR USE OF THIS DATA. THE USER OF THIS DATA FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND BENCHMARK ENGINEERING AND LAND SURVEYING, LLC, AND ITS CONSULTANTS FROM AND AGAINST ALL CLAIMS WHICH MIGHT ARISE FROM THE MISUSE OF THE INFORMATION PROVIDED HEREIN.

No.	DATE	DESCRIPTION

DRAWN BY: FBA
CHECKED BY: DKB
REVISION: SURVEY
DATE: 03/02/2022
DWG. FILE: CONCEPT

SCALE IS ACCURATE 1 INCH = 20 FEET ON FULL SIZE SHEETS
ADJUST ACCORDINGLY FOR REDUCED SIZE SHEETS

0 0.5 1

BENCHMARK
ENGINEERING &
LAND SURVEYING
9150 SOUTH STATE STREET SUITE # 100
SANDY, UTAH 84070 (801) 542-1182
www.benchmarkcivil.com

MAMMOTH HOLDINGS

80 W 1000 N
SPANISH FORK, UTAH

PROJECT NO. CONCEPT

CONCEPT

CONCEPT
1 OF 1



AREA TABLE		
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ADJUST ACCORDINGLY FOR REDUCED SIZE SHEETS

0 0.5 1

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9150 SOUTH STATE STREET SUITE # 100
SANDY, UTAH 84070 (801) 542-1192
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MAMMOTH HOLDINGS
80 W 1000 N
SPANISH FORK, UTAH

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1 OF 1