

Addendum No. 2
May 23, 2022

RE: Twin Falls Fire Station #3

Bid date has changed. Bids due: **Thursday, 5/26/22 by 2:00PM.**

This addendum addresses the following:

- Architect Addendum-02 Narrative.
- Mechanical / Electrical Addendum-02 Narrative.
- Revised Plumbing drawing.
- Starr Corp Pre-Bid RFI responses.
- Starr Corp Substitution Request responses.

Attachments:

- Pivot North Architecture Addendum No. 2, Dated May 21, 2022.
- Revised Bid Package Descriptions by Starr Corp dated 5/20/22.

End of Addendum No. 2



TWIN FALLS FIRE STATION #3				
Bids to Starr Corporation by May 26, 2022 at 2:00PM				ADD-02 REVISIONS
Bid Package No.	Package Description	Spec Section	Description	Additional Comments - (All items include material, labor, and equipment for installation, except as noted otherwise)
BP-01 CONCRETE				
01	CONCRETE	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
01	CONCRETE	031000	Concrete Forming and Accessories	
01	CONCRETE	032000	Concrete Reinforcing	Provide and install all concrete reinforcement to include but not limited to rebar, remesh, smooth dowel rods, fibermesh, etc.
01	CONCRETE	033000	Cast-In-Place Concrete	Provide and install concrete footings, stem walls, slabs, curbs of all types, sidewalks, trash enclosure slab, sign post bases, flatwork @ utility structures, light pole bases, sign bases, site furnishings bases, etc. NOTE: Site Fence post concrete bases by Others. Install steel bollards provided by Others.
01	CONCRETE	051200	Structural Steel Framing	High-strength grouting of column bases included in this scope of work.
01	CONCRETE	321313	Concrete Paving	All concrete driveway & parking lot areas. Include joint sealants in this scope of work.
01	CONCRETE	071113	Bituminous Dampproofing	Provide foundation dampproofing in this scope of work.
01	CONCRETE	072100	Thermal Insulation	Provide foundation insulation for this scope of work.
01	CONCRETE	079005	Joint Sealers	Applicable to this scope of work.
BP-02 POLISHED CONCRETE FINISHING				
02	POLISHED CONCRETE FINISHING	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
02	POLISHED CONCRETE FINISHING	033536	Polished Concrete Finishing	
02	POLISHED CONCRETE FINISHING	079005	Joint Sealers	Applicable to this scope of work.
BP-03 MASONRY				
03	MASONRY	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
03	MASONRY	042000	Unit Masonry	
03	MASONRY	042200	Concrete Unit Masonry	
03	MASONRY	079005	Joint Sealers	Applicable to this scope of work, (i.e., masonry control joints, etc.).
BP-04 STRUCTURAL STEEL: SUPPLY & INSTALL				
04	STRUCTURAL STEEL	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
04	STRUCTURAL STEEL	050513	Shop - Applied Coatings for Metal	
04	STRUCTURAL STEEL	051200	Structural Steel Framing	Grouting of column bases by Others.
04	STRUCTURAL STEEL	055000	Metal Fabrications	Supply steel pipe bollards to be installed by Others.
BP-04a STRUCTURAL STEEL: INSTALL, ONLY				
04a	STRUCTURAL STEEL	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
04a	STRUCTURAL STEEL	050513	Shop - Applied Coatings for Metal	
04a	STRUCTURAL STEEL	051200	Structural Steel Framing	Grouting of column bases by Others.
04a	STRUCTURAL STEEL	055000	Metal Fabrications	Supply steel pipe bollards to be installed by Others.
BP-04b STRUCTURAL STEEL: SUPPLY, ONLY				
04b	STRUCTURAL STEEL	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
04b	STRUCTURAL STEEL	050513	Shop - Applied Coatings for Metal	
04b	STRUCTURAL STEEL	051200	Structural Steel Framing	
04b	STRUCTURAL STEEL	055000	Metal Fabrications	Supply steel pipe bollards to be installed by Others.
BP-05 ROUGH CARPENTRY				
05	ROUGH CARPENTRY	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
05	ROUGH CARPENTRY	061000	Rough Carpentry	
05	ROUGH CARPENTRY	061600	Sheathing	
05	ROUGH CARPENTRY	061753	Shop-Fabricated Wood Trusses	
05	ROUGH CARPENTRY	119000	Equipment	Supply & install appliances (C.F.C.I.) in this section.

BP-06 CASEWORK				
06	CASEWORK	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
06	CASEWORK	064100	Architectural Wood Casework	
06	CASEWORK	123600	Countertops	
06	CASEWORK	079005	Joint Sealers	Applicable to this scope of work.
BP-07 ROOFING				
07	ROOFING	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
07	ROOFING	072100	Thermal Insulation	
07	ROOFING	074213	Metal Wall Panels	
07	ROOFING	075400	Thermoplastic Membrane Roofing	ADD-01: Exclude requirement for Conductive Primer & Electronic Leak Detection.
07	ROOFING	076200	Sheet Metal Flashing and Trim	Provide & install downspout tubes down to underground roof drain leaders to include the metal cover plate, (RE: 3/ C5.50).
07	ROOFING	077200	Roof Accessories	
07	ROOFING	079005	Joint Sealers	Applicable to this scope of work.
BP-08 DOORS & HARDWARE				
08	DOORS & HARDWARE	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
08	DOORS & HARDWARE	081113	Hollow Metal Doors and Frames	Includes installation.
08	DOORS & HARDWARE	081416	Flush Wood Doors	Includes installation.
08	DOORS & HARDWARE	087100	Door Hardware	Includes installation. As applicable to this scope of work.
08	DOORS & HARDWARE	089100	Louvers	Includes installation. As applicable to this scope of work.
BP-09 SECTIONAL DOORS				
09	SECTIONAL DOORS	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
09	SECTIONAL DOORS	083613	Sectional Doors	The insulated panel portions of the Sectional Doors to be field-painted as noted on Door Schedule; Sheet A7.01 by BP-14 Paint. The Vision Panels will be factory powder coated.
09	SECTIONAL DOORS	079005	Joint Sealers	Applicable to this scope of work.
BP-09a FOUR-FOLD SIDE OPENING METAL DOORS				
09a	FOUR-FOLD SIDE OPENING METAL DOORS	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
09a	FOUR-FOLD SIDE OPENING METAL DOORS	083500	Four-Fold Side Opening Metal Doors	The insulated panel portions of the Four-Fold Side Opening Metal Doors to be field-painted as noted on Door Schedule; Sheet A7.01 by BP-14 Paint. The Vision Panels will be factory powder coated.
09a	FOUR-FOLD SIDE OPENING METAL DOORS	079005	Joint Sealers	Applicable to this scope of work.
BP-10 ALUMINUM ENTRANCES & STOREFRONTS				
10	ALUMINUM ENTRANCES & STOREFRONTS	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
10	ALUMINUM ENTRANCES & STOREFRONTS	084313	Aluminum Framed Entrances and Storefronts	
10	ALUMINUM ENTRANCES & STOREFRONTS	085413	Fiberglass Windows	ADD-01: Delete this Spec Section. There are no Fiberglass Windows on this project.
10	ALUMINUM ENTRANCES & STOREFRONTS	087100	Door Hardware	As applicable to this scope of work.
10	ALUMINUM ENTRANCES & STOREFRONTS	088000	Glazing	Provide all the glazing for this project.
BP-11 DRYWALL				
11	DRYWALL	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
11	DRYWALL	092116	Gypsum Board Assemblies	Supply & install tile backer board.
11	DRYWALL	092219	Non-Structural Metal Framing	Provide all blocking & backing as identified in Spec 092219-4; 2.3; B; 4; a-i.
11	DRYWALL	095100	Acoustical Ceilings	
11	DRYWALL	095426	Acoustical Wood Ceilings	
11	DRYWALL	072100	Thermal Insulation	As applicable to this scope of work.
11	DRYWALL	072119	Foamed-In-Place Insulation	
11	DRYWALL	072500	Weather Barriers	
11	DRYWALL	079005	Joint Sealers	At all walls with sound attenuation, seal top of wall at structure and bottom of wall with acoustical sealant.
BP-12 TILING				

12	TILING	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
12	TILING	093000	Tiling	Tile backer board provided by BP-11 Drywall.
12	TILING	079005	Joint Sealers	Applicable to this scope of work.
BP-13 FLOOR COVERING				
13	FLOOR COVERING	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
13	FLOOR COVERING	096500	Resilient Flooring	
13	FLOOR COVERING	096566	Resilient Athletic Flooring	
13	FLOOR COVERING	079005	Joint Sealers	Applicable to this scope of work.
BP-14 PAINTING				
14	PAINTING	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
14	PAINTING	099000	Painting and Coating	Field paint both the interior & exterior sides of the insulated panel portions of the Sectional Doors & Four-Fold Side Opening Metal Doors as noted on Door Schedule; Sheet A7.01. The Vision Panels will be factory powder coated by BP-09 Sectional Doors & BP-09a Four-Fold Side Opening Metal Doors.
14	PAINTING	071900	Water Repellents	Apply water repellents to masonry in this scope of work.
14	PAINTING	079005	Joint Sealers	Applicable to this scope of work. Include joint sealant at all interior doors, windows.
BP-15 SPECIALTIES				
15	SPECIALTIES	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
15	SPECIALTIES	101100	Visual Display Surfaces	
15	SPECIALTIES	101400	Signage	
15	SPECIALTIES	101453	Traffic Signage	
15	SPECIALTIES	102600	Wall and Corner Protection	Provide FRP-1 Fiber Reinforced Plastic Sheet as listed in this Spec.
15	SPECIALTIES	102800	Toilet Accessories	
15	SPECIALTIES	104400	Fire Protection Specialties	
15	SPECIALTIES	105100	Lockers	
15	SPECIALTIES	105723	Prefabricated Storage Items	
15	SPECIALTIES	108013	Miscellaneous Specialties	
15	SPECIALTIES	323300	Site Furnishings	Concrete bases, if required, by Others.
BP-16 WINDOW COVERINGS				
16	WINDOW COVERINGS	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
16	WINDOW COVERINGS	122413	Roller Window Shades	Includes installation.
BP-17 FIRE PROTECTION				
17	FIRE PROTECTION	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
17	FIRE PROTECTION	210500	Common Work Results for Fire Suppression	
17	FIRE PROTECTION	211119	Fire-Department Connections	
17	FIRE PROTECTION	211313	Wet-Pipe Sprinkler Systems	
17	FIRE PROTECTION	078400	Firestopping	As applicable to this scope of work.
17	FIRE PROTECTION	079005	Joint Sealers	As applicable to this scope of work.
17	FIRE PROTECTION	083100	Access Doors & Panels	As applicable to this scope of work.
BP-18 PLUMBING				
18	PLUMBING	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
18	PLUMBING	220500	Common Work Results for Plumbing	
18	PLUMBING	220519	Meters & Gauges for Plumbing Piping	
18	PLUMBING	220523	General-Duty Valves for Plumbing Piping	
18	PLUMBING	220529	Hangers & Supports for Plumbing Piping & Equipment	
18	PLUMBING	220553	Identification for Plumbing Piping & Equipment	
18	PLUMBING	220700	Plumbing Insulation	
18	PLUMBING	221116	Domestic Water Piping	
18	PLUMBING	221119	Domestic Water Piping Specialties	

18	PLUMBING	221123	Domestic Water Pumps	
18	PLUMBING	221316	Sanitary Waste & Vent Piping	
18	PLUMBING	221319	Sanitary Waste & Vent Piping Specialties	The 1000 GAL Sand & Oil Interceptor shown on Sheet P2.10 & detailed on P3.01 will be provided & installed by BP-21 SITE WORK. Plumbing Contractor will stub out piping to 5'-0" outside of building where it will be connected and extended by the Site Work Contractor.
18	PLUMBING	221413	Facility Storm Drainage Piping	
18	PLUMBING	221423	Storm Drainage Piping Specialties	
18	PLUMBING	221513	General-Service Compressed-Air Piping	
18	PLUMBING	221519	General-Service Packaged Air Compressors & Receivers	
18	PLUMBING	223000	Water Heaters	
18	PLUMBING	224000	Plumbing Fixtures	
18	PLUMBING	232500	Water Treatment for Mechanical Systems	ADD-02: INCLUDE this Spec Section in this bid package.
18	PLUMBING	119000	Equipment	Include connections of water supplies, drains, etc. in this scope of work
18	PLUMBING	078400	Firestopping	As applicable to this scope of work.
18	PLUMBING	079005	Joint Sealers	As applicable to this scope of work.
18	PLUMBING	083100	Access Doors & Panels	As applicable to this scope of work.
BP-19 HVAC				
19	HVAC	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
19	HVAC	230500	Common Work Results for Mechanical	
19	HVAC	230529	Hangers & Supports for HVAC Piping & Equipment	
19	HVAC	230553	Identification for HVAC Piping & Equipment	
19	HVAC	230593	Testing, Adjusting & Balancing for HVAC	
19	HVAC	230700	HVAC Insulation	
19	HVAC	231123	Facility Natural-Gas Piping	
19	HVAC	232500	Water Treatment for Mechanical Systems	ADD-02: DELETE this Spec Section from this bid package. This will be provided by BP-18 Plumbing.
19	HVAC	233113	Metal Ducts	
19	HVAC	233300	Air Duct Accessories	
19	HVAC	233423	Power Ventilators	
19	HVAC	233713	Diffusers, Registers & Grilles	
19	HVAC	235123	Gas Vents	
19	HVAC	235523.13	Low-Intensity, Gas-Fired, Radiant Heaters	
19	HVAC	235533.16	Gas-Fired Unit Heaters	
19	HVAC	237223	Air-to-Air Energy Recovery Equipment	
19	HVAC	237416.11	Packaged, Small-Capacity, Rooftop Air-Conditioning Units	
19	HVAC	237443	Rooftop Heating & Cooling Units	
19	HVAC	238126.10	Ductless Split Systems	
19	HVAC	238126	Split-System Heat Pump Air-Conditioners - Direct Expansion (DX), Air-Cooled, Variable Capacity, Split System	
19	HVAC	238216.14	Coils	
19	HVAC	238239.19	Wall & Ceiling Unit Heaters	
19	HVAC	119000	Equipment	Include ducting required for appliances in this scope of work.
19	HVAC	078400	Firestopping	As applicable to this scope of work.
19	HVAC	079005	Joint Sealers	As applicable to this scope of work.
19	HVAC	083100	Access Doors & Panels	As applicable to this scope of work.
19	HVAC	089100	Louvers	Provide all louvers as shown on plans.
BP-20 ELECTRICAL, COMMUNICATIONS, FIRE ALARM				

20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	260500	Common Work Results for Electrical	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	260519	Low Voltage Electrical Power Conductors & Cables	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	260526	Grounding & Bonding for Electrical Systems	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	260529	Hangers & Supports for Electrical Systems	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	260533	Raceway & Wireway for Electrical Systems	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	260534	Cabinets, Boxes & Fittings	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	260543	Underground Ducts & Raceways for Electrical Systems	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	260553	Identification for Electrical Systems	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	260583	Wiring Connections	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	260923	Lighting Control Devices	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	262413	Switchboards	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	262416	Panelboards	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	262726	Wiring Devices	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	262800	Low-Voltage Circuit Protective Devices	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	263213	Engine Generators	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	263600	Transfer Switches	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	264313	Surge Protective Device (SPD)	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	265000	Lighting	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	265613	Lighting Poles & Standards	Include excavation & backfill of all light pole bases. Forming & pouring of bases by Others.
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	270500	Common Work Results for Communications	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	270526	Grounding & Bonding for Communications Systems	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	270529	Cable Tray for Communications Systems	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	270544	Sleeves & Sleeve Seals for Communications Pathways & Cabling	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	270533	Identification for Communications Systems	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	270600	Schedules for Communications Systems	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	271100	Communications Equipment Room Fittings	

20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	271116	Communications Cabinets, Racks, Frames & Enclosures	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	271500	Communications Horizontal Cabling	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	276000	Television Distribution Systems	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	283111	Fire Detection & Alarm	
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	119000	Equipment	Include electrical connections for appliances in this scope of work.
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	078400	Firestopping	As applicable to this scope of work.
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	079005	Joint Sealers	As applicable to this scope of work.
20	ELECTRICAL, COMMUNICATIONS, FIRE ALARM	083100	Access Doors & Panels	As applicable to this scope of work.
BP-21 SITEWORK & UTILITIES				
21	SITEWORK & UTILITIES	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety. This bid package responsible for ALL barricades, safety devices and traffic controls both onsite and offsite, as required for this scope of work.
21	SITEWORK & UTILITIES	311000	Site Clearing	Include all site demolition work shown on Sheet C1.00; Demolition Keynotes #1 thru #9. This bid package responsible for setup & maintenance of SWPPP as shown on Sheets C1.50 & C1.55.
21	SITEWORK & UTILITIES	312000	Earth Moving	Include in this scope of work all the foundation excavation & backfill to include interior slab sub-grading & fine-grading along with sub-base & base materials. Include sub-grading & fine-grading along with sub-base & base materials for all exterior concrete paving, pads, bases, sidewalks, curbs. Foundation insulation, bituminous dampproofing, vapor barriers, reinforcement provided by Others. Light pole bases by Others.
21	SITEWORK & UTILITIES	321216	Asphalt Paving	ALL striping / pavement markings in this scope of work to include all directional arrows, diagonal striping, (both exterior & interior @ Apparatus Bay), and DO NOT ENTER lettering at Fire Truck exit point.
21	SITEWORK & UTILITIES	331000	Water Utilities	
21	SITEWORK & UTILITIES	333000	Sanitary Sewerage Utilities	Provide & install the 1000 GAL Sand & Oil Interceptor shown on Sheet P2.10 & detailed on P3.01. The Plumbing Contractor will stub out piping to 5'-0" outside of building. The Site Work Contractor will connect to these stub outs and run all the piping required to the Sand & Grease Interceptor for a fully functional unit. This includes providing and installing Sand & Grease Traps 'SG Trap 1' & 'SG Trap 2' shown on Sheet C4.10.
21	SITEWORK & UTILITIES	334000	Storm Drainage Utilities	Provide & install underground roof drain leaders from storm drain lines up and to finish grade at each downspout tube location to include the Cover Plate, (REF: 3/C5.50).
BP-22 METAL FENCING				
22	METAL FENCING	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
22	METAL FENCING	323113	Decorative Metal Fences & Gates	Provide and install concrete fence post bases including excavation and backfill.
BP-23 LANDSCAPING & IRRIGATION				
23	LANDSCAPING & IRRIGATION	DIVISION 01	GENERAL REQUIREMENTS	All sections to be included in their entirety.
23	LANDSCAPING & IRRIGATION	321413	Permeable Interlocking Concrete Pavers	ADD-02: Delete this Spec Section. Permeable pavers not allowed by City of Twin Falls.
23	LANDSCAPING & IRRIGATION	328400	Planting Irrigation	
23	LANDSCAPING & IRRIGATION	329300	Plants	Sitework Contractor will sub-grade site to (+/-) 1". Fine-grade existing sub-grade material prior to placement of landscape materials to achieve thicknesses & depths specified. Provide topsoil & placement either from existing topsoil stockpile and/or imported, as required. Include sleeves beneath all concrete and asphalt areas for routing landscape irrigation piping.

DATE OF ISSUE:	May 21, 2022		
PROJECT:	Twin Falls Station 3 Twin Falls, Idaho 83303	PNa PROJECT #:	20-042
REVIEWED BY:	Richard Carlos Pivot North Architecture		
ATTACHMENTS:	Architecture Sheet A3.01 – Building Elevations, SWPP report, Civil Drawings/Narrative and specifications, Electrical/Tech drawings, Pre-BID RFI 04, 06, & 07.		
PREVIOUS ADDENDA:	Addendum #01		

The following are changes, deletions, corrections, additions, and/or modifications to the drawings, specifications, contract conditions, and bidding documents dated **March 14, 2022**. Bidding parties are required to acknowledge receipt of this addendum on the bid form. Failure to do so may subject the bidder to disqualification.

SUBSTITUTION REQUESTS:

1. SR-6: Use of Hi-R-H
 - a. **RESPONSE: ACCEPTED with comments. As long as finish block color specified is provided.**

ARCHITECTURAL SPECIFICATIONS

1. See Response to Pre-BID RFI 04 for revisions.

ARCHITECTURAL/ENGINEERING CLARIFICATIONS/DRAWINGS

ARCHITECTURAL DRAWINGS

1. Sheet A3.01 BUILDING ELEVATIONS
 - a. ADDED Reference Note 32.17 “RE: CIVIL DETAIL ON C5.10. DOWNSPOUT TO DISCHARGE ABOVE GRADE.”
 - b. EDITED the length of the two downspouts in B1/A3.01 EXTERIOR ELEVATION – NORTH, to discharge above grade.
 - c. REPLACED Reference note 32.15 with 32.17 in B1/A3.01 EXTERIOR ELEVATION – NORTH.

ELECTRICAL DRAWINGS

2. E2.11 – LEVEL 1 - POWER PLAN
 - a. ADDED (4) DUPLEX RECEPTACLES
 - b. RELOCATED (2) DUPLEX RECEPTACLES

TECHNOLOGY DRAWINGS

3. T1.01 – TECHNOLOGY SITE PLAN
 - a. RELOCATE INCOMING SERVICES MANHOLE AS INDICATED.
4. T2.11 – LEVEL 1 – TECHNOLOGY FLOOR PLAN SERIES
 - a. REVISE CABLE COUNTS AS INDICATED, ADD / REVISE TIMECLOCK LOCATIONS AS INDICATED.

END OF ADDENDUM #02



Addendum No. 2 | May 19, 2022

To the Plans and Specifications for: **Twin Falls Fire Station 3**
TLG PN: 121106

GENERAL:

- 1.1 **Permeable pavers and associated drainage course aggregates have been omitted from the project.**

SPECIFICATIONS:

- 1.2 **SPECIFICATION – 31 20 00 – EARTH MOVING**
REVISION: Revise paragraph 1.2.F to read as follows:
F. Drainage Course: Aggregate layer supporting the slab-on-grade that also minimizes upward capillary flow of pore water.
- 1.3 **SPECIFICATION – 31 20 00 – EARTH MOVING**
REVISION: Revise paragraph 2.1.E to read as follows:
E. Bedding Course (Utility Trench & Boulder Retaining Bedding):
- 1.4 **SPECIFICATION – 31 20 00 – EARTH MOVING**
OMISSION: Delete paragraph 2.1.H. in its entirety.
- 1.5 **SPECIFICATION – 32 14 13 – PERMEABLE INTERLOCKING CONCRETE PAVERS**
OMISSION: Delete specification in its entirety.
- 1.6 **SPECIFICATION – 32 92 00 – TURF AND GRASSES**
REVISION: Revise paragraph 2.1.D.1 to read as follows:
1. Sod shall be Montane Mix Native Blend Sod by Magic Valley Turfgrass, submit for approval prior to ordering.
- 1.7 **SPECIFICATION – 32 93 00 – PLANTS**
REVISION: Revise paragraph 1.3.D to read as follows:
D. Landscape Rock Mulch:
1. 4-inch to 6-inch Round Cobblestone Rock: 5-gallon bucket with sample name and product material for each type and size of mulch and Representative photographs of mulch at source.
2. 2-inch to 4-inch Round Cobblestone Rock: 5-gallon bucket with sample name and product material for each type and size of mulch and Representative photographs of mulch at source.

DRAWINGS:1.8 **C1.00 – SITE DEMOLITION PLAN**

ADDITION: Remove additional gravity irrigation piping at north end of project boundary.

ADDITION: Sawcut and remove sidewalk to allow for gravity irrigation construction in Offsite Area.

CLARIFICATION: Keynote 10 for continued gravity irrigation service.

REVISION: Revise limits of sawcut for 30' radii drive approach.

REVISION: Revise sidewalk demolition extents on north side of project boundary.

REVISION: Revise demolition keynote 9.

1.9 **C1.50 – SWPPP SITE PLAN**

REVISION: Revise site disturbance limits and area.

OMISSION: Delete reference to permeable pavers.

1.10 **C2.00 – SITE MATERIALS PLAN**

REVISION: Revise "Right Lane Must Turn Right" sign location.

REVISION: Revise future monument sign location.

REVISION: Revise pedestrian ramps, curb & sidewalk extents, and asphalt patch limits for 30' radii drive approach.

REVISION: Revise curb drain locations.

REVISION: Revise extent of heavy-duty concrete pavement to replace permeable pavers.

REVISION: Revise sidewalk alignment to limit construction within ITD right-of-way.

REVISION: Revise swale type and extents at north side of project site.

OMISSION: Delete permeable pavers from project.

ADDITION: Reconstruct sidewalk to allow for gravity irrigation construction in Offsite Area.

ADDITION: Add pavement at reconstructed driveway for pedestrian traffic.

ADDITION: Add trench drain at apparatus bay egress driveway.

1.11 **C2.10 – SITE LAYOUT PLAN**

REVISION: Revise pedestrian ramps, curb & sidewalk extents, and asphalt patch limits for 30' radii drive approach.

REVISION: Revise curb drain locations.

REVISION: Revise extent of heavy-duty concrete pavement to replace permeable paver locations.

REVISION: Revise sidewalk alignment to limit construction within ITD right-of-way.

OMISSION: Delete permeable pavers from project.

ADDITION: Add sidewalk replacement to allow for gravity irrigation construction in Offsite Areas at north and south project limits.

ADDITION: Add pavement at reconstructed driveway for pedestrian traffic.

ADDITION: Add trench drain at apparatus bay egress driveway.

1.12 **C4.00 – SITE GRADING PLAN**

REVISION: Revise swale extents to not be located within ITD right-of-way or Public Utility Easements.

REVISION: Revise grading near southwest corner of building and east apparatus bays.

REVISION: Revise spot elevations at apparatus bays to match architectural detail.

ADDITION: Add gravity irrigation ditch.

ADDITION: Add spot elevations for new, reconstructed sidewalk in Offsite Area.

1.13 **C4.01 – GRADING ENLARGEMENT PLAN**

REVISION: Revise grades at northern drive approach for 30' radii.

REVISION: Revise spot elevations for swale in Grading Enlargement 1.

REVISION: Revise location/add additional spot elevations in Grading Enlargements 1-3.

1.14 **C4.10 – SITE DRAINAGE PLAN**

REVISION: Revise swale elevations and dimensions.

REVISION: Revise curb drain locations.

OMISSION: Delete permeable pavers from project.

ADDITION: Add boulder retained bioretention swale basin.

ADDITION: Add trench drain and daylight discharge into swale.

1.15 **C5.00 – SITE UTILITY PLAN**

REVISION: Revise pipe material for hydrant lateral.

REVISION: Revise gas service routing to be located outside of water easement.

REVISION: Revise Miscellaneous Keynote 3 and indicate at additional locations for gravity irrigation modifications.

ADDITION: Add Storz connection to hydrant.

ADDITION: Add potable/non-potable utility crossing keynotes.

1.16 **C5.10 – GRAVITY IRRIGATION PLAN – AREA A**

ADDITION: New sheet.

ADDITION: Add gravity irrigation piping, structures, open ditch and related appurtenances for continued gravity irrigation through site.

1.17 **C5.11 – GRAVITY IRRIGATION PLAN – AREA B**

ADDITION: New sheet.

ADDITION: Add gravity irrigation piping, structures, open ditch and related appurtenances for continued gravity irrigation through site.

1.18 **C5.50 – DRAINAGE AND UTILITY DETAILS**

OMISSION: Delete permeable paver details.

REVISION: Revise detail numbering.

ADDITION: Add typical ditch section detail.

ADDITION: Add trench drain details.

ADDITION: Add boulder retained bioretention swale detail.

ADDITION: Add drainage geotextile to details 4, 8 & 9

1.19 **L1.00 – LANDSCAPE PLAN**

REVISION: Revise tree types at berm located at back of site.

REVISION: Revise keynote 3 & 4 text.

REVISION: Revise Turf Sod to be Montane Mix Native Blend Sod on plan and landscape legend.

ADDITION: Add and revise landscaping at street frontage of project site and north perimeter infiltration facility.

ADDITION: Add Genie Magnolia, to plan and plant schedule.

REVISION: Replaced all Skyline Honey Locusts with Street Spire Oaks & Deborah Norway Maples with Emerald City Tulip Poplars.

1.20 **L2.00 – IRRIGATION PLAN**

REVISION: Revise irrigation at street frontage of project site and north perimeter infiltration facility.

REVISION: Rename valve and valve tag from #3 to #10.

REVISION: Revise GPM for Valve #7.

ADDITION: Add valve #3 and valve #6 and associated lateral piping and sleeving.

REVISION: Revise all 1804 series spray heads to be 1806 series on plan and irrigation schedule.

SUBSTITUTIONS:

1.21 **None**

LIST OF DOCUMENTS	SIZE OF SHEET	NO. OF PAGES
Addendum No. 2 Summary	8.5x11	4
Specifications	8.5x11	3 Sections
Drawings	30x42	13

END OF ADDENDUM NO. 2



TWIN FALLS FIRE STATION #3

PRE-BID RFI - 04

To Company:

Name:

CC: Kristen DeMarco - Pivot North Architecture
Gunnar Gladics - Rice Fergus Miller

Date Submitted:

Date Response Needed:

Spec Sections:

From Company:

Name:

Phone:

Email:

Drawing References:

Request:

Paste a Screenshot Below

Response:

Paste a Screenshot Below

TWIN FALLS STATION 3

SIGNAGE SCHEDULE

1. Restroom 101, 125, and 134: Sign text, raised letters, and braille reading “Restroom” with international symbol of accessibility and male/female pictogram.
2. Janitorial 126: Sign text, raised letters, and braille reading “Janitorial” and “Roof Access.”
3. General and EMS Storage 133: Sign text, raised letters, and braille reading “Storage” and “Roof Access.”
4. Restroom 121 and 124: Sign text, raised letters, and braille reading “Restroom” with male/female pictogram.
5. Room 127: Sign text, raised letters, and braille reading “Data Room/Fire Alarm – Authorized Personnel Only.”
6. Room 135: Sign text, raised letters, and braille reading “Electrical Room – Authorized Personnel Only.”
7. Exit Signs: Sign text, raised letters, and braille reading “EXIT.” Provide (7) to be located next to all exit doors. Confirm exact location with Fire Marshal.
8. Room 139: Pressure sensitive vinyl individual letters, UV-resistant, red, 1-inch tall, reading “Fire Riser Room – Authorized Personnel Only.”

DEDICATION PLAQUE

1. Brass Castings: ASTM B 584, Alloy UNS No. C85200 (high-copper yellow brass).
2. Cast Plaques: Provide castings free of pits, scale, sand holes, and other defects, as follows:
 - a. Plaque Material: Bronze.
 - b. Background Texture: Manufacturer’s standard stipple texture.
 - c. Border Style: ¼ inch projected bevel, ¾ wide.
 - d. Mounting: Concealed studs, noncorroding for substrates encountered.
3. Plaque Schedule:
 - a. Plaque Type: Dedication Plaque.
 - b. Quantity: One.
 - c. Plaque Size: Nominal 16 inches wide x 20 inches tall.
 - d. Font: As selected by City of Twin Falls.
 - e. Text and Graphics: Verify exact text and graphics with Owner. Text and graphics to include the following:
 - i. City of Twin Falls Logo
 - ii. Twin Falls Fire Department Logo
 - iii. Project Name: Twin Falls Fire Station 3
 - iv. Date: 2023
 - v. Major- Name
 - vi. City Council Members, (6) Names
 - vii. Fire Chief – Name
 - viii. Twin Falls City Project Manager – Name
 - ix. CMGC – Name
 - x. Design Team – (2) Names



TWIN FALLS FIRE STATION 2 2023

Mayor
Ruth Pierce

City Council Members

Christopher Reid
Shawn Barigar
Nikki Boyd

Craig Hawkins
Jason Brown
Spencer Cutler

Fire Chief
Les Kenworthy

Twin Falls City Project Manager
Travis Rothweiler

Contractor
Starr Corporation

Architect
Rice Fergus Miller
Pivot North Architecture

FOR REFERENCE ONLY

Request for Information (R.F.I.)

Additional Notes or Screen Shots

2.3 MATERIALS

A. Writing Marker Boards:

1. Basis of Design Product: Claridge Products and Equipment, Inc., Tel. (870) 743-2200. Claridge Products are specified for type, quality and construction required.
 - a. Substitutions for products by manufacturers other than those listed above: See Section 01 60 00 - Product Requirements.
2. Features:
 - a. Material: Porcelain steel dry erase board, magnetic.
 - 1) Size: App Bay: 4-feet x 6-feet.
 - 2) Dining: 4-feet x 6-feet or 4-feet x 8-feet.
 - 3) **Fitness: TBD.**
 - 4) **FFWA: TBD.**
 - 5) **Captain's Office: TBD.**
 - 6) **BC Office: TBD.**
 - b. Mounting: Stationary systems with standard frames.
 - c. Accessories: Full length marker tray.
 - d. Tack strip inserts in map rails: Granulated cork and linseed with burlap backing.
 - e. Color: white; porcelain.

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. Delegated design of signage and supports.

B. Dimensional character signs.

C. Illuminated dimensional characters.

D. Panel Signs. ✓

E. Illuminated panel signs.

F. Applied Decal Signs. ✓

G. Dedication Plaque. ✓

1.2 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Convene one week before starting work of this section in accordance with Section 01 31 00 - Project Management and Coordination.

1. Review preparation and installation procedures and coordinating and scheduling required with related work.

1.3 SUBMITTALS

A. Qualification Data: For fabricator and design engineer.

B. Delegated-Design Submittal: For assemblies indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

C. Product Data: Provide product criteria, characteristics, accessories, jointing and attachment methods.

D. Shop Drawings:

1. Show sign mounting heights, locations of supplementary supports, and accessories.
2. Provide message list, typestyles, graphic elements, including tactile characters and Braille, and layout for each sign.
3. Wiring Diagrams: Power, signal, and control wiring.

E. Sample: For each of the following products and for the full range of color, texture, and sign material indicated, of sizes indicated:

1. Dimensional Characters: Full-size Samples of each type of dimensional character (letter, number, and graphic element).
2. Aluminum: For each form, finish, and color, on 6 inch long sections of extrusions and squares of sheet at least 4 by 4 inches.

3. Acrylic Sheet: 8 by 10 inches for each color required.
4. Polycarbonate Sheet: 8 by 10 inches for each color required.
5. Panel Signs: Not less than 12 inches square for each type.
6. Accessories: One of each, for each type.

F . Manufacturer's Installation Instructions: Indicate special preparation of substrate, installation and attachment methods, and perimeter conditions requiring special attention.

G . Maintenance Data: For user's operation and maintenance of system including:

1. Methods for maintaining system's materials and finishes.
2. Precautions about cleaning materials and methods that could be detrimental to components, finishes, and performance.
3. Include manufacturers' brochures and parts lists describing the actual materials installed.

H . Closeout Submittals:

1.4 MAINTENANCE MATERIAL

A . Spare parts, extra stock, tools.

1.5 QUALITY ASSURANCE

A . Manufacturer Qualification: Company specializing in the manufacture of work specified in this section with minimum 5 years of experience.

B . Designer Qualifications: Professional structural engineer with 5 years of documented experience in design of this work and licensed in the location of the project.

C . Fabricators Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience on projects of similar size and complexity.

D . Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience on projects of similar size and complexity.

1.6 MOCKUP

A . Fabricate sign type representing finished work including material, color, finishes, and attachment method.

B . Locate where directed.

C . Mockup may remain as part of the Work.

1.7 DELIVERY, STORAGE, AND HANDLING

A . As required by the manufacturer for a warrantable installation of the installed products to meet the Performance and Design Criteria.

PART 2 - PRODUCTS

2.1 DESCRIPTION

- A. Signage as required by code and to facilitate wayfinding.

2.2 PERFORMANCE AND DESIGN CRITERIA

A. Tactile and Braille Characters: Text and symbols complying with ADA-ABA Accessibility Guidelines and with ICC/ANSI A117.1. Produce precisely formed characters with square-cut edges free from burrs and cut marks. Text shall be accompanied by Grade 2 Braille. Braille dots with domed or rounded shape produced using Raster Method.

1. Raised-Copy Thickness: Not less than 0.7 mm and not more than 3 mm.

B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

2.3 MATERIALS

A. Aluminum Sheet and Plate: ASTM B209, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with at least the strength and durability properties of Alloy 5005-H32.

B. Aluminum Extrusions: ASTM B221, alloy and temper recommended by aluminum producer and finisher for type of use and finish indicated, and with at least the strength and durability properties of Alloy 6063-T5.

C. Steel Sheet: Uncoated, cold-rolled, ASTM A1008/A1008M, commercial steel, Type B, exposed.

D. Stainless-Steel Sheet: ASTM A240/A240M or ASTM A666, Type 304, stretcher-leveled standard of flatness.

E. Steel Members Fabricated from Plate or Bar Stock: ASTM A529/A529M or ASTM A572/A572M, 42,000-psi (290-MPa) minimum yield strength.

F. Acrylic Sheet: ASTM D 4802, Category A-1 (cell-cast sheet), Type UVA (UV absorbing).

G. Polycarbonate Sheet: Of thickness indicated, manufactured by extrusion process, coated on both surfaces with abrasion-resistant coating:

1. Impact Resistance: 16 ft-lb/in. per ASTM D256, Method A.
2. Tensile Strength: 9000 lbf/sq. in. per ASTM D638.
3. Flexural Modulus of Elasticity: 340,000 lbf/sq. in. per ASTM D790.
4. Heat Deflection: 265 degrees F at 264 lbf/sq. in. per ASTM D648.
5. Abrasion Resistance: 1.5 percent maximum haze increase for 100 revolutions of a Taber abraser with a load of 500 g per ASTM D 1044.

H. Applied Vinyl: Die-cut characters from vinyl film of nominal thickness of 3 mils (0.076 mm) with pressure-sensitive adhesive backing, suitable for exterior applications.

1. Opaque Vinyl: Basis of Design: 3M Scotchcal Electro Cut Graphic Film, or a comparable product by the following:
 - a. Gerber Scientific Products.
2. Translucent Vinyl: Basis of Design: 3M Scotchcal Electro Cut Graphic Film, Dusted Crystal Translucent Vinyl, or a comparable product by the following:
 - a. Gerber Scientific Products.
3. Printed Vinyl Sheet: Digitally printed vinyl film of nominal thickness of 3 mils with pressure-sensitive adhesive backing. Apply UV and water resistant coating to face of sheet. Apply sheet to panels indicated.

2.4 FINISHES

A. Aluminum Clear Anodic Finish: Manufacturer's standard Class 1 clear anodic coating, 0.018 mm or thicker, over a satin (directionally textured) mechanical finish, complying with AAMA 611.

B. Stainless Steel: No. 4 finish.

C. Painted Finishes: Specification is based on products listed by Matthews Paint.

1. Comparable products by one of the following are also acceptable. See Section 01 60 00 - Product Requirements for submittal requirements.
 - a. Akzo Nobel.
2. Substitutions for products by manufacturers other than those listed above: See Section 01 60 00 - Product Requirements.
3. Steel and Galvanized Steel:
 - a. Primer: 274 Series Epoxy Primer, color as required for topcoat color indicated, 1.5 - 2.0 mils DFT.
 - b. Topcoat: MAP Low VOC Satin Acrylic Polyurethane, 2.0 mils DFT minimum, satin sheen unless indicated otherwise.
4. Aluminum:
 - a. Primer: 274 Series Epoxy Primer, color as required for topcoat color indicated, 1.5 - 2.0 mils DFT.
 - b. Topcoat: MAP Low VOC Satin Acrylic Polyurethane, 2.0 mils DFT minimum, satin sheen unless indicated otherwise.
5. Acrylic, Polycarbonate:
 - a. Primer: 74777SP/01 Tie Bond 0.4 - 0.6 mils DFT.
 - b. Topcoat: MAP Low VOC Satin Acrylic Polyurethane, 2.0 mils DFT minimum, satin sheen unless indicated otherwise.
6. Clear Coat:
 - a. 281228SP/01, VOC Satin Clear, 2.0 mils DFT minimum, satin sheen unless indicated otherwise.

2.5 FABRICATION

A. Dimensional character signs:

1. Fabricated Channel Characters: Form exposed faces and sides of characters to produce surfaces free from warp and distortion. Include internal bracing for stability and attachment of mounting accessories.
2. Provide manufacturer's hardware for projection mounting of channel characters at distance from wall surface indicated.
3. Signage material, color and finish as Scheduled.

B. Panel Signs:

1. Provide smooth sign panel surfaces constructed to remain flat under installed conditions within a tolerance of plus or minus 1/16 inch measured diagonally from corner to corner signs.
2. Edge Condition: Square.
3. Corner Condition: Square.
4. Mounting: Unframed, as indicated.
 - a. Wall or Projection mounted with concealed attachment.
 - b. Manufacturer's standard anchors for substrates encountered.
5. Tactile Characters: Characters and Grade 2 Braille raised 1/32 inch (0.8 mm) above surface with contrasting colors.

C. Applied Decal Signs:

1. Applied Vinyl Characters: Die-cut characters from vinyl film of nominal thickness of 3 mils with pressure-sensitive adhesive backing. Apply copy to surfaces indicated.

D. Dedication Plaque:

1. Custom.

2.6 ACCESSORIES

- ### A.
1. All accessory materials required by the manufacturer for a warrantable installation of the installed products in a manner that meets the Performance and Design Criteria.

B. Manufacturer's optional accessories required by the project:

1. Anchors and Inserts: Provide nonferrous-metal or hot-dip galvanized anchors and inserts for exterior installations and elsewhere as required for corrosion resistance. Use toothed steel or lead expansion-bolt devices for drilled-in-place anchors. Furnish inserts, as required, to be set into concrete or masonry work.
2. Brackets: Fabricate brackets and fittings for bracket-mounted signs from extruded aluminum to suit panel sign construction and mounting conditions indicated. Factory paint brackets in color matching background color of panel sign.
3. Cable: Fabricate cable and fittings for cable mounted signs from stainless steel cable to suit panel sign construction and mounting conditions indicated.

PART 3 - EXECUTION

3.1 EXAMINATION

A . Verify existing conditions meet the manufacturer's requirements before starting work.

3.2 PREPARATION

A . Prepare surfaces to receive work in accordance with manufacturer's instructions.

3.3 INSTALLATION

A . General: Install all materials in accordance with manufacturer's instructions based on conditions present.

3.4 ADJUSTING

A . Adjust and lubricate hardware for proper operation.

3.5 PROTECTION

A . Protect installed work as required by the manufacturer to maintain product performance, design criteria and warranty.

3.6 SCHEDULE

A . Building Identification Sign: Dimensional character sign; Stainless Steel, Thickness: As required for size of letters indicated; Finish: #4 Satin, Size as indicated; mounting: standoffs.

B . Building Address Sign: Polycarbonate, dimensional letters.

C . Room and Door Identification Signs: In compliance with Local Code.

D . Parking Signs: Provided by Civil.

E . Directional Bicycle Parking Sign: Applied Vinyl on Glass.

F . Alarmed Exit Sign: Provided by MEP.

END OF SECTION



TWIN FALLS FIRE STATION #3

PRE-BID RFI - 06

To Company: PIVOT NORTH ARCHITECTURE

Date Submitted: 5/18/22

Name: Richard Carlos

Date Response Needed: 5/20/22

CC: Kristen DeMarco - Pivot North Architecture
Gunnar Gladics - Rice Fergus Miller

Spec Sections: N/A

From Company: STARR CORPORATION

Name: JEFF RUSSELL

Drawing References: C5.00

Phone: (208) 420-7703

Email: jeff@starrcorporation.com

Request:

Paste a Screenshot Below

REF: Sheet C5.00 - Site Utility Plans:

The new and existing site gas lines are shown on C5.00 with references to Dry Utilities Keynotes #3 & #4, (see attached). We are unable to find any specifications for the new site gas lines, (i.e., size, type of material, etc.). Please provide specifications for the site gas line?

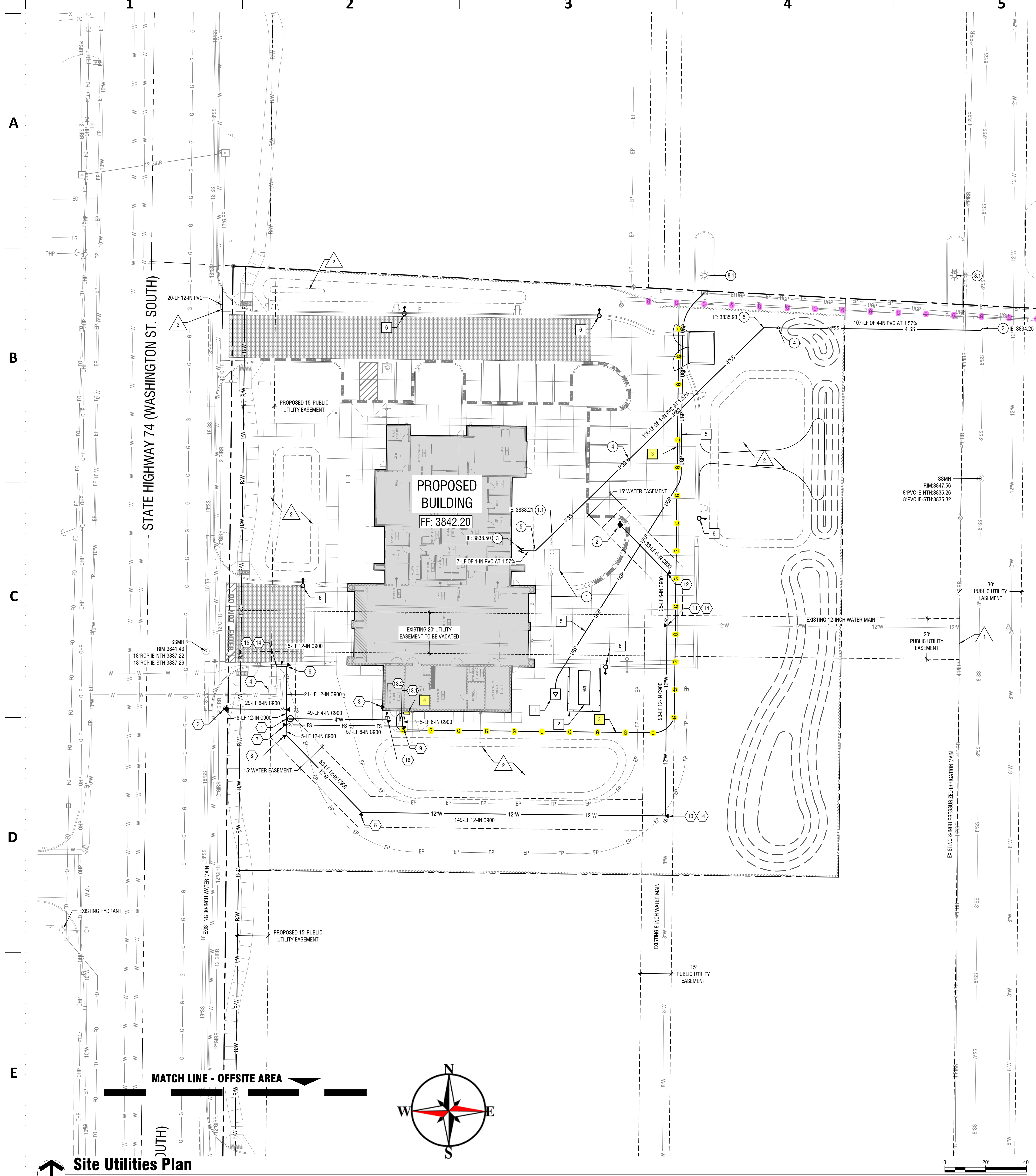
Response:

Paste a Screenshot Below

REF: Intermountain Gas Company (IGC) Utility Map & P1.10 - Level 1 - Domestic Water Plan

Existing highlighted pipe appears to be 2" per the attached map. Installation of new gas from the existing mainline to and including the meter is assumed to be completed by IGC.

Refer to sheet P1.10 for meter and building piping info.



Water Keynotes:

- INSTALL 2-IN DOMESTIC WATER SERVICE & METER PER CITY OF TWIN FALLS STANDARD DRAWING TFS-401A. TRANSITION TO 4-IN SERVICE AFTER METER BOX. 4-IN LENGTH NOTED IS FROM METER TO POINT OF CONNECTION WITH MECHANICAL.
- INSTALL FIRE HYDRANT ASSEMBLY PER CITY OF TWIN FALLS STANDARD DRAWING TFS-404.
- BUILDING-MOUNTED FDC. COORDINATE WITH BUILDING MECHANICAL & FIRE SPRINKLER CONTRACTOR.
- EXISTING PRESSURE REDUCING POTABLE WATER VALVE VAULT.
- POTABLE/NON-POTABLE WATER SEPARATION REQUIRED. REFER TO DOMESTIC WATER NOTES 10 & 11/C3.00.
- INSTALL 1-1/2" 90° BEND AND THRUST BLOCK.
- INSTALL 1-1/2"x12"x6" TEE, 1-6" GATE VALVE AND THRUST BLOCK.
- INSTALL 1-1/2" 45° BEND AND THRUST BLOCK.
- INSTALL 1-6" 90° BEND AND THRUST BLOCK.
- INSTALL 1-1/2" TEE, 1-12"x8" REDUCER, 1-8" GATE VALVE AND THRUST BLOCK.
- INSTALL 1-1/2" TEE, 1-12"x8" REDUCER, 1-6" GATE VALVE AND THRUST BLOCK.
- COORDINATE CONTINUATION WITH BUILDING MECHANICAL.
 - 6" FIRE SERVICE CONNECTION.
 - 4" DOMESTIC WATER SERVICE CONNECTION.
- INTERCEPT AND CONNECT TO EXISTING WATER MAIN, COORDINATE WITH CITY OF TWIN FALLS FOR ADDITIONAL REQUIREMENTS.
- REMOVE AND REPLACE EXISTING TEE. INSTALL 1-1/2" TEE AND THRUST BLOCK. INSTALL REDUCERS AS REQUIRED TO CONNECT TO EXISTING MAINLINES.
- INSTALL 1-4" 90° AND THRUST BLOCK.

Sheet Notes:

- CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET C3.00.
- UTILITY CONTRACTORS ARE RESPONSIBLE FOR VERIFYING LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND TIE IN POINTS PRIOR TO CONSTRUCTION. IF CONFLICTS OR DISCREPANCIES EXIST, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR ADDITIONAL DIRECTION.
- REFER TO SITE GRADING PLAN SHEET C4.00 FOR FINISH GRADING INFORMATION AND SITE DRAINAGE PLAN SHEET 4.10 FOR DRAINAGE INFORMATION.
- PIPE LENGTHS NOTED MAY DIFFER FROM ACTUAL INSTALLED LENGTH AND ARE PROVIDED FOR REFERENCE.
- BOTH DOMESTIC AND GRAVITY IRRIGATION PIPE LINES REQUIRE A BACKFLOW PREVENTION DEVICE AT THE POINT OF ENTRY TO THE BUILDING. THE TYPE OF DEVICE IS CONTINGENT ON THE DEGREE OF HAZARD AND MUST MEET IDAHO DES STANDARDS.
- ALL SEWER & GRAVITY IRRIGATION PIPE SHALL BE BELL AND SPIGOT, PVC, SDR 35, ASTM D-3034, UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL WATER SERVICE LINES SHALL BE CONSTRUCTED WITH MINIMUM CLASS 200 POLYETHYLENE PIPE CONFORMING TO AWWA C-901.
- ALL WATER DISTRIBUTION MAINS INCLUDING FIRE SERVICE LATERALS SHALL BE CONSTRUCTED WITH CLASS 165 PVC PIPE CONFORMING TO AWWA C-900.
- ALL SANITARY SEWER CLEANOUT LIDS SHALL BE MARKED "SS CO" OR OTHER PRE-APPROVED ABBREVIATION.
- REFER TO IS/PWC SD-403 FOR THRUST BLOCK INSTALLATION AND REQUIREMENTS.
- ALL PIPE FITTINGS, BENDS AND JOINTS SHALL BE WATER TIGHT. PROVIDE REQUIRED FITTINGS TO TRANSITION BETWEEN PIPE MATERIAL, SIZE AND TYPE.

Sewer Keynotes:

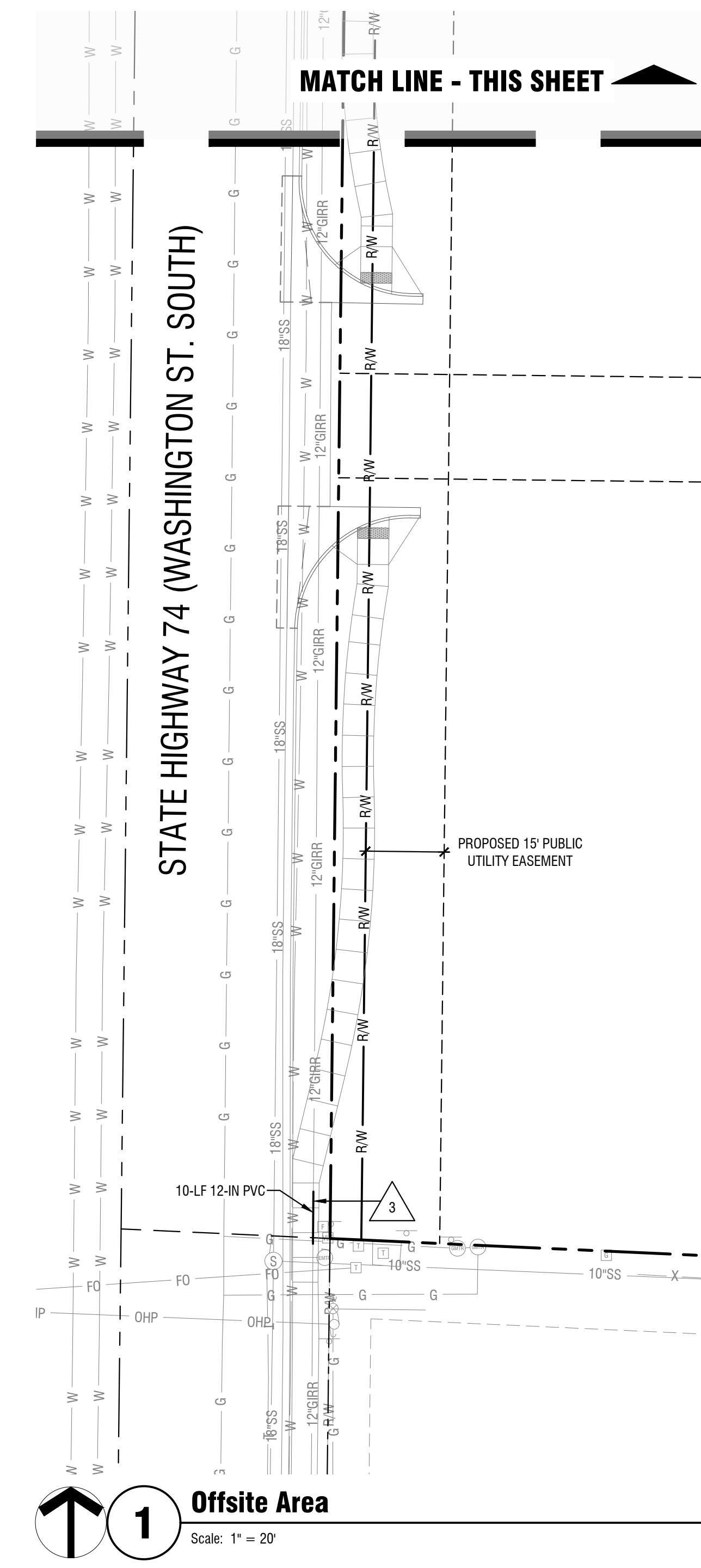
- APPARATUS BAY TRENCH DRAIN FLAMMABLE LIQUIDS INTERCEPTOR WITH DISCHARGE TO SEWER.
 - COORDINATE WITH BUILDING MECHANICAL FOR WYE CONNECTION TO BUILDING SEWER SERVICE.
- INSTALL 4-IN SANITARY SEWER SERVICE PER CITY OF TWIN FALLS STANDARD DRAWING TFS-511, TYPE A OR TYPE D. FIELD VERIFY LOCATION AND CONNECTION INVERT AT MAINLINE.
- COORDINATE SEWER SERVICE CONTINUATION WITH BUILDING MECHANICAL.
- INSTALL CLEANOUT PER DETAIL 2/C5.50. INSTALL AT LOCATIONS PER PLAN, 100' MAX DISTANCE BETWEEN CLEANOUTS AND/OR MAINLINE CONNECTION.
- INSTALL 4-IN 45° ELBOW.

Dry Utility Keynotes:

- ELECTRICAL TRANSFORMER. REFER TO SITE ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.
- SITE GENERATOR AND GENERATOR ENCLOSURE. REFER TO SITE ELECTRICAL PLAN AND ARCHITECTURAL FOR ADDITIONAL INFORMATION.
- NATURAL GAS LINE EXTEND TO METER AT BUILDING. COORDINATE WITH INTERMOUNTAIN GAS AND BUILDING MECHANICAL FOR ADDITIONAL INFORMATION. ROUTING ASSUMED.
- GAS METER. COORDINATE WITH INTERMOUNTAIN GAS AND BUILDING MECHANICAL FOR ADDITIONAL INFORMATION.
- POWER AND COMMUNICATION. REFER TO SITE ELECTRICAL FOR ADDITIONAL INFORMATION. ROUTING ASSUMED.
- SITE LIGHTING. REFER TO SITE ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.

Miscellaneous Keynotes:

- PRESSURE IRRIGATION TAP LOCATION. COORDINATE WITH IRRIGATION PLAN L2.00 FOR ADDITIONAL INFORMATION.
- STORM WATER RETENTION BASIN. REFER TO SITE DRAINAGE PLAN SHEET C4.10 FOR ADDITIONAL INFORMATION.
- INSTALL 12-IN PVC PIPE FOR CONTINUATION OF GRAVITY IRRIGATION LENGTH PER PLAN. COORDINATE WITH SITE DEMOLITION PLAN SHEET C1.00 FOR ADDITIONAL INFORMATION. PROVIDE AND INSTALL TRANSITION FITTINGS TO CONNECT DISSIMILAR PIPE TYPES AS REQUIRED.



pivot north ARCHITECTURE

PIVOT NORTH ARCHITECTURE, PLLC.
1101 W. GROVE STREET
BOISE, ID 83702
www.pivotnorthdesign.com

STAMP: PROFESSIONAL ENGINEER
13437
STATE OF IDAHO
ERIC CROWIN
03/11/2022

RICEfergusMILLER

THE LAND GROUP
LIC. NO. 121106

Project: **TWIN FALLS FIRE STATION 3**
1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Revisions: △

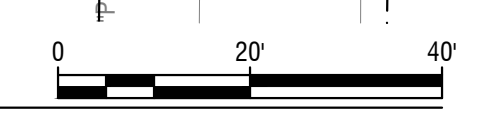
Project No: 20-042
Date: 03/14/2022
Checked By: ECBS
Drawn By: CRUL

Sheet Name: **SITE UTILITIES PLAN**

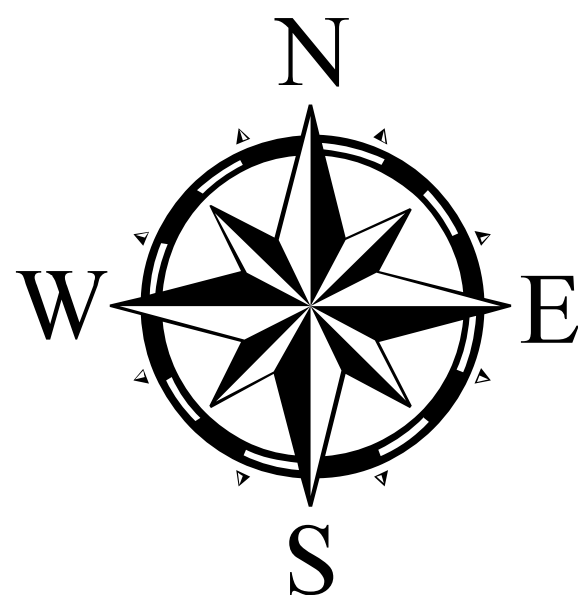
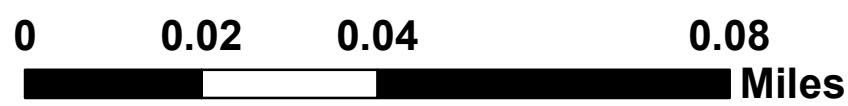
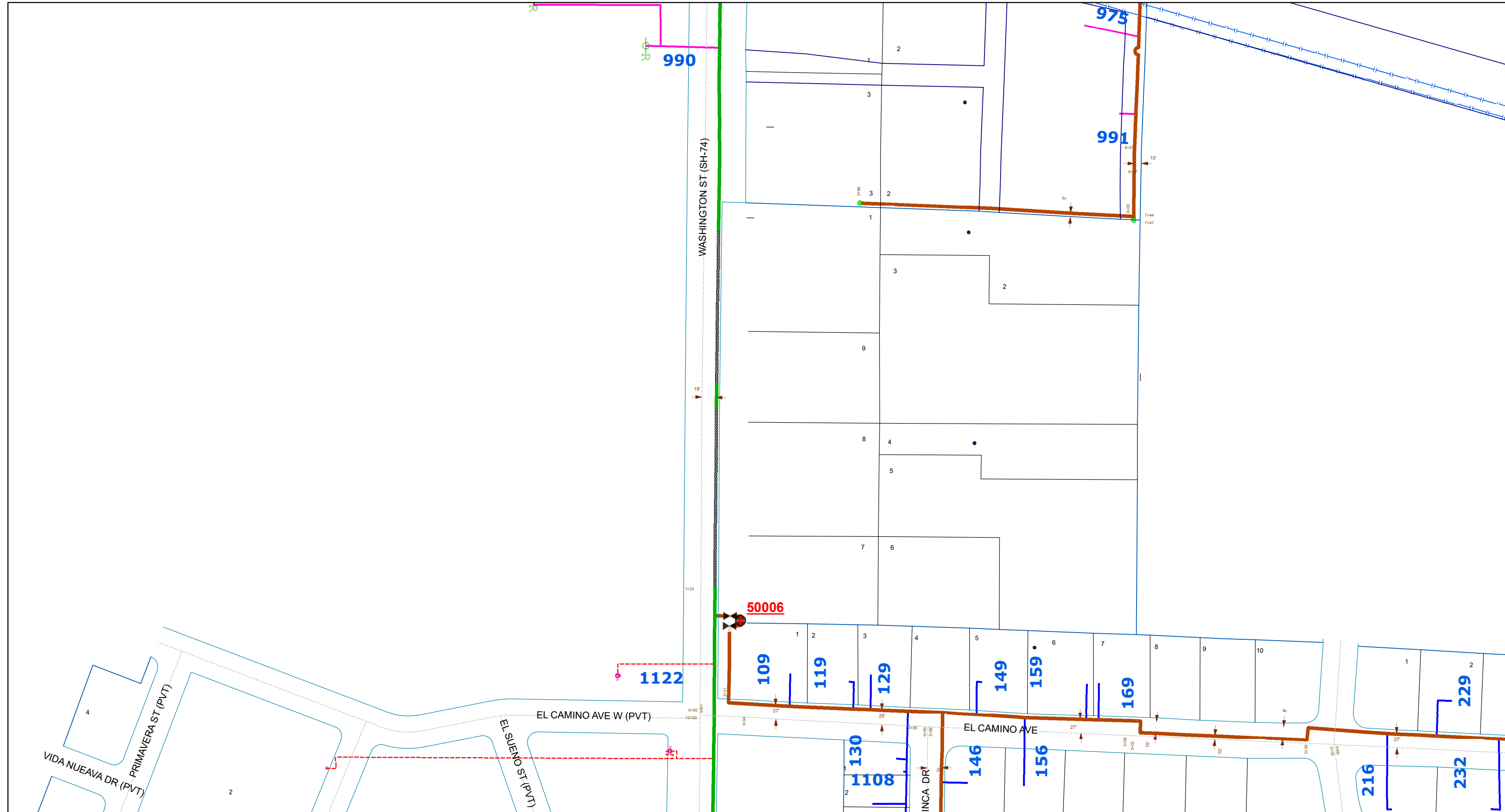
BID SET

Sheet No: **C5.00**

Site Utilities Plan
Horizontal Scale: 1" = 20'



1025 Washington St S Twin Falls, ID 83301



Piping

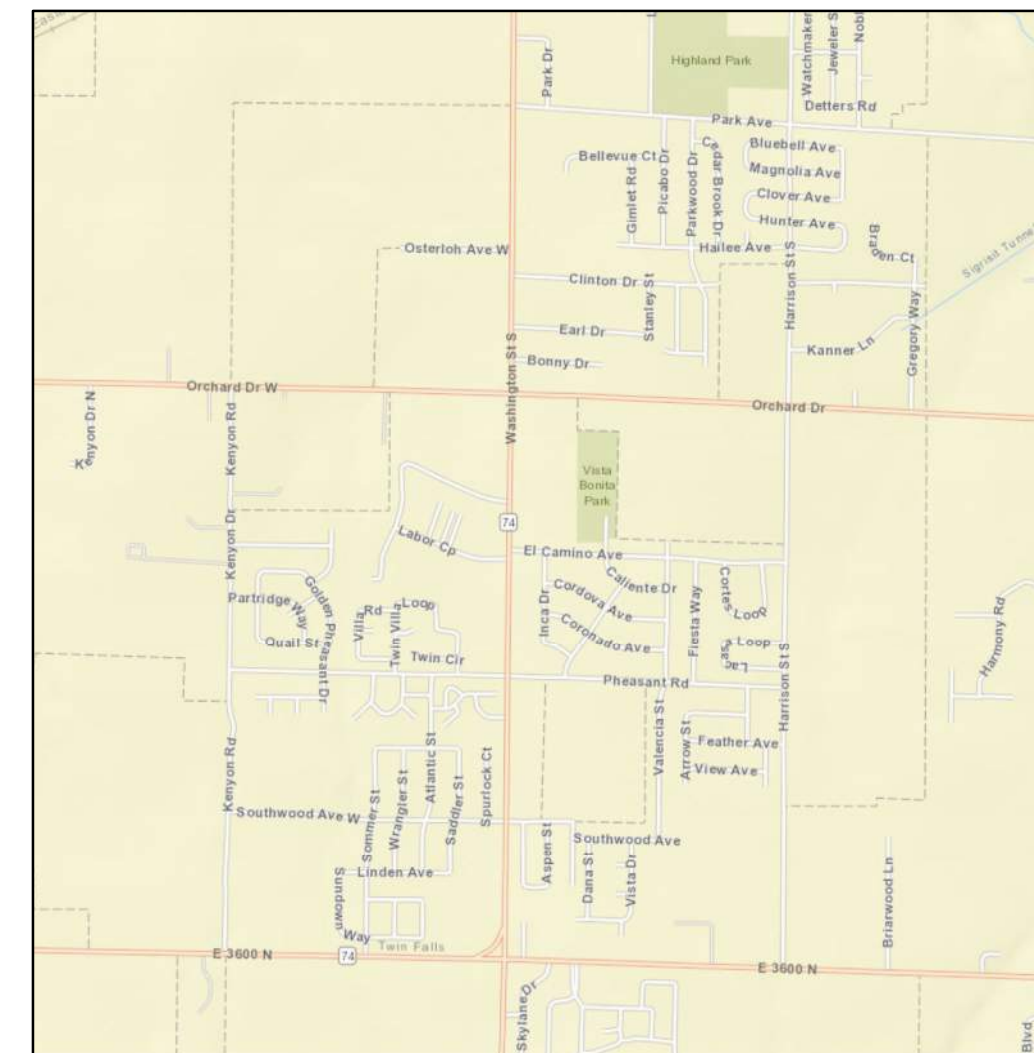
Pipe Size	Color	Color	Color
3.5"			
1/2"			
3/4"			
1"			
1 1/4"			
2"			
3"			

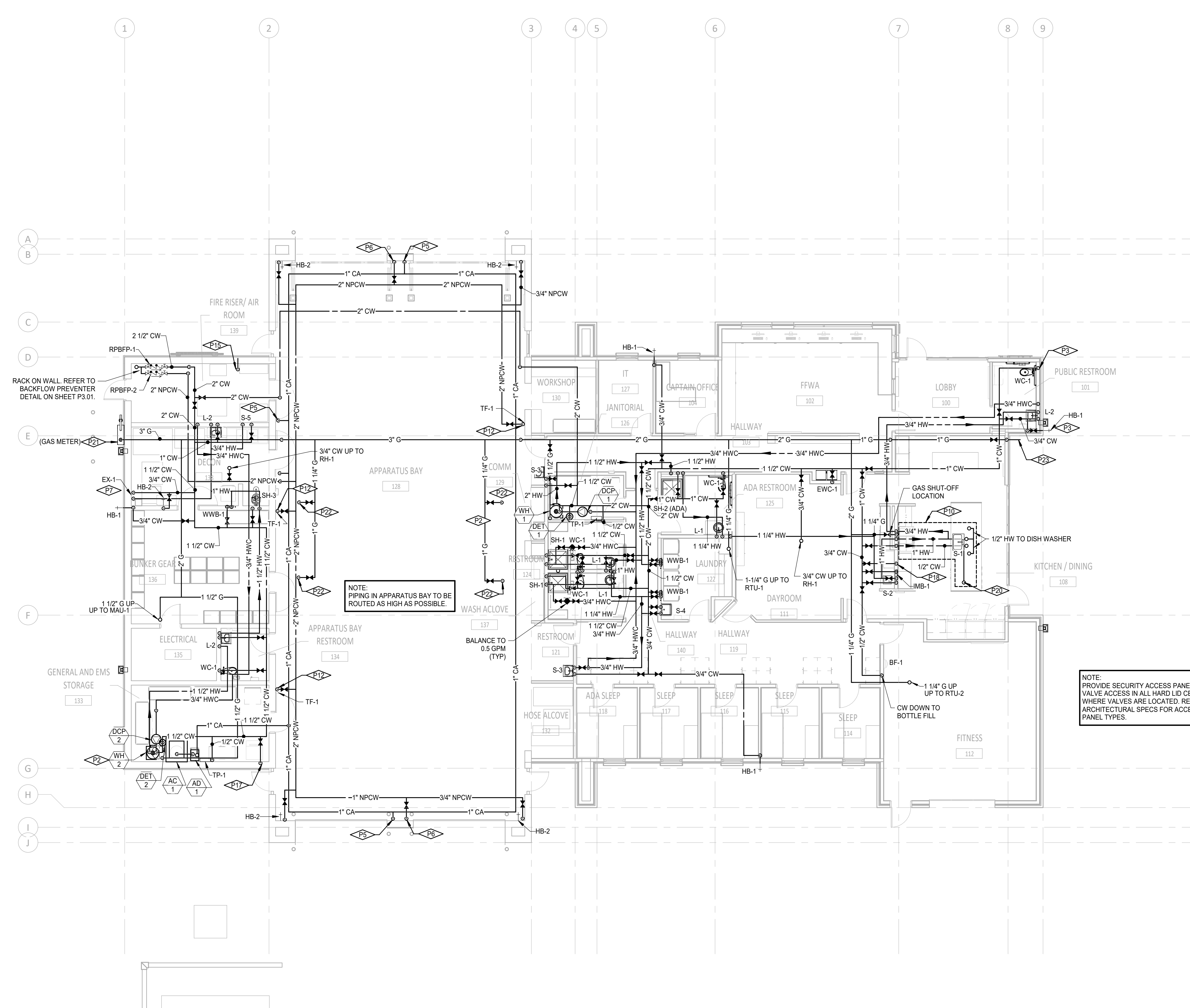
Abandoned Main



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LEVEL 1 DOMESTIC WATER PLAN
SCALE: 1/8" = 1'-0"

KEYNOTES	
P2	SEE WATER HEATER DETAIL ON SHEET P3.01.
P3	DROP PIPING IN WALL ON WARM SIDE OF INSULATION.
P5	COMPRESSED AIR DROP TO OUTLET AND HOSE REEL. SEE COMPRESSED AIR CONNECTION DETAIL ON SHEET P3.01.
P6	3/4" NON POTABLE WATER DOWN TO WATER HOSE REEL CONNECTION. SEE ARCHITECTURAL FOR HOSE REEL MOUNTING HEIGHT, SPECIFICATION, ETC.
P7	DROP 3/4" HOT AND COLD WATER TO EX-1 WASHER/EXTRACTOR.
P10	HOT WATER AND COLD WATER DOWN BELOW SLAB TO KITCHEN SINK. ROUTE 1/2" COLD WATER AND 1/2" HOT WATER TO KITCHEN SINK. ROUTE 1/2" HOT WATER TO DISHWASHER. RE-ROUTE HOT WATER FROM KITCHEN SINK BACK AS SHOWN ON PLAN.
P12	DROP 2" NPCW DOWN WALL TO TF-1 TRUCK FILL VALVE.
P15	CA DOWN TO MAKO CYLINDER CASCADE SYSTEM. CONTRACTOR TO PROVIDE PRESSURE RATED LINE RATED FOR 7500 PSI. PROVIDE QUICK CONNECTION FOR ROLL-UP SCBA COMPRESSOR. EQUIPMENT PROVIDED BY OTHERS. RE: ARCH FOR LOCATION OF ROLL-UP SCBA COMPRESSOR ACCESS POINT.
P17	ROUTE 1/2" CW DOWN TO ICE MAKER. PROVIDE WITH WATTS LF009 REDUCED PRESSURE BACKFLOW PREVENTER. DRAIN TO FLOOR SINK.
P18	CW DOWN TO COFFEE MAKER. ROUTE AND SIZE PIPING PER MANUFACTURER'S RECOMMENDATIONS. COFFEE MAKER SUPPLIED BY OTHERS.
P20	ROUTE 1/2" CW UP TO ICE MAKER. PROVIDE WITH WATTS LF009 REDUCED PRESSURE BACKFLOW PREVENTER. DRAIN TO FLOOR SINK.
P21	0.5 PSI GAS METER (1516 MBH). COORDINATE WITH INTERMOUNTAIN GAS. GAS SERVICE LINE SHALL BE SLEEVED UP TO 6" ABOVE FINISHED GRADE FOR VENTING TO ATMOSPHERE.
P22	1" GAS DOWN TO SERVE GRH.
P23	1" GAS LINE DOWN IN WALL AND STUBBED OUT TO PATIO FOR CONNECTION TO GRILL. GRILL PROVIDED BY OTHERS.

TAG	EQUIPMENT DESCRIPTION	MBH
WH-1	WATER HEATER	210
WH-2	WATER HEATER	210
MAU-1	MAKE-UP AIR UNIT	250
RTU-1	ROOFTOP UNIT	195
RTU-2	ROOFTOP UNIT	125
GRH-1	RADIANT HEATER	75
GRH-2	RADIANT HEATER	75
GRH-3	RADIANT HEATER	75
GRH-4	RADIANT HEATER	75
OG	OUTSIDE GRILL	60
KR	KITCHEN RANGE	166
TOTAL MBH		1516



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www.pivnorthdesign.com



CATOR | RUMA & ASSOCIATES, C.O.
420 South Orchard Street, Boise, ID 83705
(208) 343-3663 • www.catorruma.com

Project:
TWIN FALLS FIRE STATION 3
1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Project No: 20-042
Date: 3/14/2022
Checked By: BW
Drawn By: JL
Sheet Name:

LEVEL 1 - DOMESTIC WATER PLAN

Sheet No:
P1.10

BID SET



TWIN FALLS FIRE STATION #3

PRE-BID RFI - 07

To Company:

Name:

CC: Kristen DeMarco - Pivot North Architecture
Gunnar Gladics - Rice Fergus Miller

Date Submitted:

Date Response Needed:

Spec Sections:

From Company:

Name:

Phone:

Email:

Drawing References:

Request:

Paste a Screenshot Below

Response:

Paste a Screenshot Below

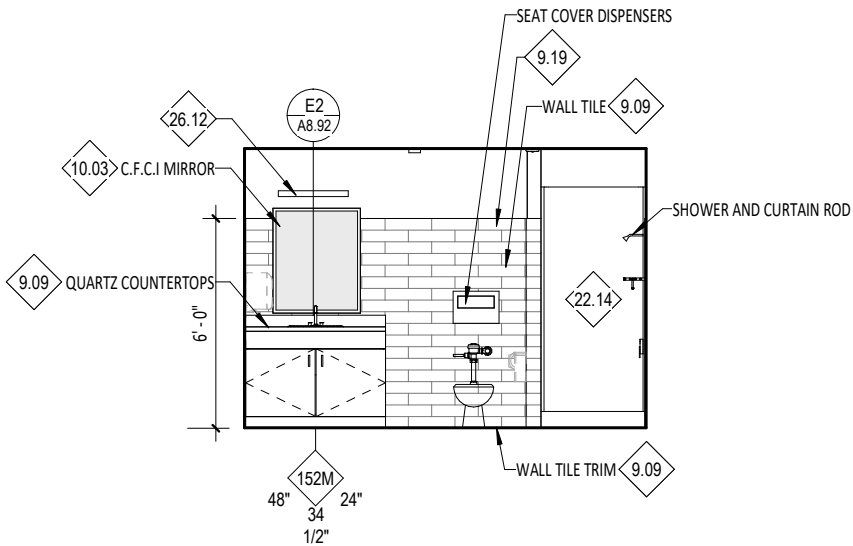
Request for Information (R.F.I.)

Additional Notes or Screen Shots

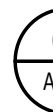
Q-1

5. Shower Curtain:

- a. Basis of Design: Bobrick B-207 Series.
- b. Locations:
 - 1) At restrooms:
 - a) 107: 3-feet 0-inches.
 - b) 121: 3-feet 0-inches.
 - c) 124: 3-feet 0-inches.
 - d) 125: 3-feet 2-inches.
 - 2) Decon: 4-feet 0-inches.



C5 RESTROOM 124 - EAST
A8.51 1/4" = 1'-0"



Q-2

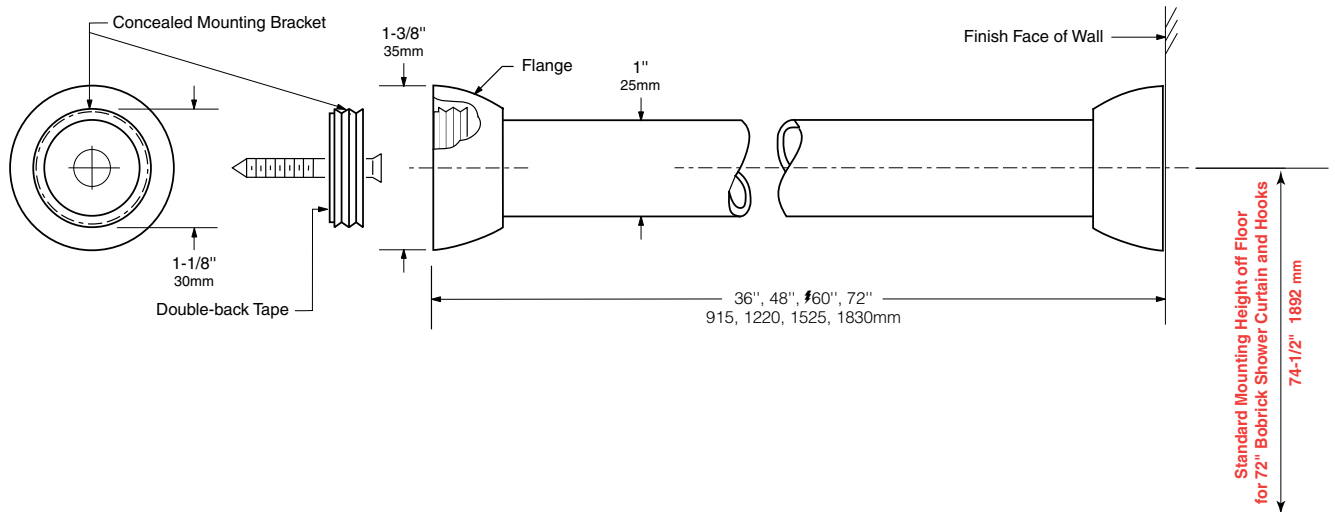




Technical Data

HEAVY-DUTY SHOWER CURTAIN ROD WITH CONCEALED MOUNTING

B-207



MATERIALS:

Curtain Rod — 18-8, Type-304, 20-gauge (1.0mm) stainless steel tubing with satin finish. 1" (25mm) outside diameter. Available in lengths from 36" (915mm) up to 72" (1830mm).

Flanges (2) — 1-3/8" (35mm) diameter. Chrome-plated plastic. Bright polished finish.

Concealed Mounting Brackets (2) — Aluminum.

INSTALLATION:

Remove protective backing from tape attached to concealed mounting brackets. Position mounting brackets on opposite shower walls and secure with screws furnished by manufacturer. For plaster or dry wall construction, provide concealed backing to comply with local building codes, then secure brackets with screws furnished. For other wall surfaces, provide fiber plugs or expansion shields for use with screws furnished, or provide 1/8" (3mm) toggle bolts or expansion bolts. Slide flanges onto opposite ends of curtain rod. Position curtain rod, then screw threaded flanges onto mounting brackets.

SPECIFICATION:

Shower curtain rod shall be Type-304, 20-gauge (1.0mm) stainless steel with satin finish. It shall have an outside diameter of 1" (25mm). Flanges shall be 1-3/8" (35mm) diameter chrome-plated plastic with bright polished finish. Unit shall be equipped with concealed mounting brackets.

Shower Curtain Rod shall be Model B-207 x _____ (insert length) of Bobrick Washroom Equipment Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Excavation and backfilling for slabs-on-grade, walks, pavements and landscape areas.
2. Excavation and backfilling for building floor slabs, building foundations and structures.
3. Excavation and backfilling for storm drainage systems.
4. Excavation and backfilling trenches for utilities and pits for buried utility structures.
5. Excavation and backfilling geotechnical test pits.
6. Excavation and backfilling trenches where existing utilities are removed or modified.
7. Temporary erosion and sedimentation control measures.

B. Related Sections:

1. Division 01 Sections.
2. Division 03 Section "Cast-in-Place Concrete" for vapor retarder beneath the slab-on-grade.
3. Division 23, 26 and 27 Sections for installing underground mechanical, electrical and telecommunications utilities and buried mechanical and electrical structures.
4. Division 31 Section "Site Clearing" for site stripping, grubbing, stripping topsoil, and removal of above- and below-grade improvements and utilities.
5. Division 32 Section "Turf and Grasses" for finish grading in turf and grass areas, including preparing and placing planting soil for turf areas.
6. Division 32 Section "Plants" for finish grading in planting areas and tree and shrub pit excavation and planting.
7. Division 33 Sections for underground site utilities.
8. Idaho Standards for Public Works Construction, Current Edition.
9. Geotechnical Investigation and Addenda as prepared by Atlas Technical Consultants, LLC, File Number: T211192g.
10. SWPPP Documents.

1.2 DEFINITIONS

A. Backfill: Soil material or controlled low-strength material used to fill an excavation.

1. Initial Backfill: Backfill placed beside and over pipe in a trench, including haunches to support sides of pipe. Initial backfill shall be Bedding Course.
2. Final Backfill: Backfill placed over initial backfill to fill a trench. Final Backfill shall be Bedding Course or Granular Structural Fill.

B. Base Course (Crushed Aggregate Base): Aggregate layer placed between the base course and hot-mix asphalt paving or concrete flatwork or cast in place concrete.

C. Subbase Course (Structural Fill): Aggregate layer placed between the subgrade and Base

Course.

- D. Bedding Course: Aggregate layer placed over the excavated subgrade in a trench before laying pipe.
- E. Borrow Soil: Satisfactory soil imported from off-site for use as fill or backfill.
- F. Drainage Course: Aggregate layer supporting the slab-on-grade that also minimizes upward capillary flow of pore water
- G. Excavation: Removal of material encountered above subgrade elevations and to lines and dimensions indicated.
- H. Fill: Soil materials used to raise existing grades.
- I. Satisfactory Soil: Soil material in compliance with the Geotechnical Investigation.
- J. Structures: Buildings, footings, foundations, retaining walls, slabs, tanks, curbs, mechanical and electrical appurtenances, or other man-made stationary features constructed above or below the ground surface.
- K. Subgrade: Uppermost surface of an excavation or the top surface of a fill or backfill immediately below subbase, drainage fill, drainage course, base course or topsoil materials.
- L. Utilities: On-site underground pipes, conduits, ducts, and cables, as well as underground services within buildings.

1.3 SUBMITTALS

- A. Product Data: For each type of the following manufactured products required:
 - 1. Geotextiles and warning tapes.
- B. Material Test Reports: For each on-site and borrow soil material proposed for fill and backfill as follows. Testing data shall have been completed within 12 months of the submittal date.
 - 1. Classification according to ASTM D 2487.
 - 2. Laboratory compaction curve according to ASTM D 1557 (for rigid structures) or ASTM D 698 (for flexible pavements).
 - 3. Sieve analysis for all structural fill materials.
 - 4. Sieve analysis for topsoil.
 - 5. Topsoil quality analysis.
- C. Operations & Maintenance Data: Submit Materials Testing reports for compaction testing of all subgrades and fill materials.

1.4 QUALITY ASSURANCE

- A. Pre-excavation Conference: Conduct conference at Project site.
- B. All gravel, base course, subbase, and other imported fill materials other than landscape fill and topsoil shall only be stockpiled in proposed impervious areas. No gravel or rock materials shall be stockpiled or temporarily placed in proposed landscape areas in order to

prevent landscape areas from being contaminated with rock materials. If landscape areas become contaminated, the contractor shall restore them to specified requirements at no cost to the Owner.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Bulk Materials:

1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Accompany each delivery of bulk materials with appropriate certificates.

1.6 PROJECT CONDITIONS

A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during earthwork operations.

1. Do not close or obstruct streets, walks, or other adjacent occupied or used facilities without permission from Owner and authorities having jurisdiction.
2. Provide alternate routes around closed or obstructed traffic ways if required by Owner or authorities having jurisdiction.

B. Utility Locator Service: Notify utility locator service for area where Project is located before beginning earth moving operations. Contact locator service at 811 or 208-342-1585.

C. Do not commence earthwork operations until temporary erosion- and sedimentation-control measures are in place.

D. Soft Subgrade Conditions: This site contains shallow fine-grained soils that are relatively high in moisture content and prone to pumping and rutting from rubber-tired construction equipment. Earth Moving methods which limit destabilizing areas of the site during earth moving activities shall be employed.

E. Construction operations during dry, warm weather conditions will help to limit development of unstable subgrade conditions. Construction during wet weather may not be possible, depending on the amount of precipitation.

F. SWPPP: Coordinate with SWPPP documents.

G. Dust Control: Per Agency Having Jurisdiction.

1.7 WARRANTY

A. Contractor shall warrant work as provided by the General and Supplementary Conditions and Division 01 Specifications.

PART 2 - PRODUCTS

2.1 SOIL MATERIALS

- A. General: Provide borrow soil materials when sufficient satisfactory soil materials are not available from excavations. Materials shall be in compliance with the Geotechnical Investigation.
- B. Structural Fill: Soils classified as GW, GP, SW, and SP in accordance with the USCS (ASTM D2487) as identified by the geotechnical engineer. Use of silty soils (USCS designation of GM, SM, and ML) as structural fill may be acceptable. However, use of silty soils and lean clay soils (GM, SM, CL, and ML) as structural fill below footings and building floor slabs is prohibited.
- C. Subbase Course (Granular Structural Fill): 6-Inch minus select, clean, granular soil with no more than 50 percent oversize (greater than 3/4-Inch) material and no more than 12 percent fines (passing No. 200 sieve). Refer to the ISPWC Section 801 for material gradation and requirements.
- D. Base Course (Crushed Aggregate Base):
 - 1. 3/4" maximum size- complying with ISPWC Section 802 – 3/4-inch (Type I) for material gradation and requirements.
 - 2. Crushed Aggregate Base as defined herein shall be used as Free Draining Granular Mat as indicated by the geotechnical engineering report.
- E. Bedding Course (Utility Trench & Boulder Retaining Bedding):
 - 1. Type I bedding material Per ISPWC Section 305 – in compliance with the following material gradation:

Sieve Size	Percent Passing
1-inch	100
3/4-inch	80-100
3/8-inch	20-70
No. 4	5-20
No. 8	0-5
No. 200	0-3

- F. Drain Rock:
 - 1. Per ISPWC Section 801 – in compliance with the following material gradation:

Sieve Size	Percent Passing
3-inch	100
1-inch	25-60
3/8-inch	0-4
No. 200	0-2

- 2. Drain rock shall have a minimum of 35% Air Voids as determined by AASHTO T 19.

- G. Filter Sand:
 - 1. Per ISPWC Section 801 – in compliance with the following material gradation:

Sieve Size	Percent Passing
3/8-inch	100
No. 4	95-100

No. 16	45-80
No. 50	10-30
No. 100	2-10
No. 200	0-4

H. Deleted via Addendum 02.

I. Topsoil Material:

1. Topsoil shall be free of refuse, constituents toxic or otherwise deleterious to plant growth, woody vegetation, stumps or roots, brush, stones, and clay lumps. Sod and herbaceous growth such as grass need not be removed but shall be thoroughly broken up and mixed with the soil.
2. Grading and Quality Requirements: Contractor shall screen topsoil to meet gradation below or import topsoil to meet gradation below at no additional cost to Owner.:
 - a. Topsoil Material Gradation:

Sieve Size	Percent Passing
1-inch	100
3/8-inch	85-100
No. 8	50-80
No. 200	0-20

b. Topsoil Quality:

Test	Test Method	Requirements
Sampling Aggregate	ASTM D 75	-
Sieve Analysis	ASTM C 136 & C 117	Table - 2.1 B. 2. a.
General Texture	ASTM D 422-63	Sand: < 70% Silt: < 70% Clay: < 30%
Organic Content	AASHTO T 194	> 2%
Soluble Salts	ASTM D 5298-10	< 2
PH	ASTM E 70	6.5 to 7.5

3. Representative samples from proposed topsoil source shall be tested for all quality items noted in 2.1, I. above, by a recognized commercial or governmental agency and copies of the testing results shall be furnished to the landscape architect by the contractor. Coordinate with Submittals, Part 1 of this section.

J. Landscape Mulch & Landscape Boulders: Per Specification Section 32 93 00.

2.2 GEOTEXTILES

- A. Drainage Geotextile: Nonwoven needle-punched geotextile, manufactured for subsurface drainage applications, made from polyolefins or polyesters; with elongation greater than 50 percent; complying with AASHTO M 288 and the following, measured per test methods referenced:
 1. Survivability: Class 2; AASHTO M 288.
 2. Grab Tensile Strength: 157 lbf; ASTM D 4632.
 3. Sewn Seam Strength: 142 lbf; ASTM D 4632.
 4. Tear Strength: 56 lbf; ASTM D 4533.

5. Puncture Strength: 56 lbf; ASTM D 4833.
 6. Apparent Opening Size: No. 70 sieve, maximum; ASTM D 4751.
 7. Permittivity: 0.5 per second, minimum; ASTM D 4491.
 8. UV Stability: 50 percent after 500 hours' exposure; ASTM D 4355.
- B. Woven Geotextile: Woven geotextile fabric, manufactured for subgrade stabilization and soil improvements complying with the following minimum properties, measured per test methods referenced:
1. CBR Puncture: 700 lb; ASTM D 6241.
 2. Grab Tensile Strength: 200 lb; ASTM D 4632.
- C. PVC Geomembrane: 20 mil PVC Geomembrane by Environmental Protection, Inc., or approved equal. Single-ply Polyvinyl Chloride (PVC) made of virgin resins. Geomembrane shall meet or exceed the ASTM D 7176 minimum specifications for materials and ASTM D 7408 minimum specifications for seam strength.

2.3 ACCESSORIES

- A. Warning Tape: Acid- and alkali-resistant, polyethylene film warning tape manufactured for marking and identifying underground utilities, 6 inches wide and 4 mils thick, continuously inscribed with a description of the utility; colored as follows:
1. Red: Electric.
 2. Yellow: Gas, oil, steam, and dangerous materials.
 3. Orange: Telephone and other communications.
 4. Blue: Water systems.
 5. Green: Sewer systems.
 6. Purple: Irrigation mainline systems.

PART 3 - EXECUTION

3.1 SITE PREPARATION

- A. Refer to Geotechnical Investigation for additional information.
- B. Protect structures, utilities, sidewalks, pavements, and other facilities from damage caused by settlement, lateral movement, undermining, washout, and other hazards created by earthwork operations.
- C. Protect and maintain erosion and sedimentation controls during earthwork operations.
- D. Protect subgrades and foundation soils from freezing temperatures and frost. Remove temporary protection before placing subsequent materials.
- E. The site shall be watered as required to moisture condition the native soils.
- F. Notify Owner's Representative of unexpected subgrade conditions and discontinue affected work in area until notified to resume work.

3.2 EXCAVATION: GENERAL

- A. Refer to Geotechnical Investigation for additional information.
- B. Unless noted otherwise, all excavation depths noted in this section shall be from existing ground surface. Total excavation depth from existing ground elevation may be greater than depth listed. Coordinate with drawings for more information.
- C. Identify required lines, levels, contours and datum.
- D. Protect above and below grade utilities which are to remain.
- E. Grade top perimeter of excavation to prevent surface water from draining into excavation.
- F. Following excavation to subgrade and prior to fill placement; subgrade surfaces shall be proof rolled in the presence of the geotechnical engineer. Correct Soft Subgrade Soil areas as identified and directed by the Geotechnical Engineer. Proof rolling of subgrade soils shall be accomplished using a heavy rubber-tired, fully loaded, tandem-axle dump truck or equivalent.
- G. Inspection & compaction testing shall be completed per the Division 01 Specifications.

3.3 EXCAVATION AND BACKFILL AT GEOTECHNICAL TEST PITS & DEMOLISHED UTILITIES

- A. Refer to Geotechnical Investigation for location and depth of test pits.
- B. Excavate full depth of test pit or utility until undisturbed, native subgrade is encountered.
- C. Place Granular Structural Fill to total depth necessary to bring test pit to proposed subgrade elevation. Place in maximum 12-inch loose lifts and compact to a minimum of 95% per ASTM D1557.
- D. Surface of compacted structural fill shall be smooth, even surface. Remove ridges and fill depressions.
- E. Coordinate placement and grade with Excavation for Structures, Building Slabs, Building Foundations, Concrete Flatwork & Pavements, this section.
- F. Inspection & compaction testing shall be completed per the Division 01 Specifications.

3.4 EXCAVATION FOR STRUCTURES, BUILDING SLABS AND BUILDING FOUNDATIONS

- A. Excavate to indicated lines, cross sections, elevations, and subgrades.
- B. Existing topsoil material must be completely removed from below building slabs and building foundation elements. Coordinate with specification section 31 10 00.
- C. The exposed subgrade shall be proof-rolled and approved by the Geotechnical Engineer.
- D. Repair soft subgrade soil areas as identified and directed by the Geotechnical Engineer.

3.5 EXCAVATION FOR CONCRETE FLATWORK AND PAVEMENTS

- A. Excavate to indicated lines, cross sections, elevations and subgrades.

- B. The exposed subgrade shall be proof-rolled and approved by the Geotechnical Engineer.
- C. Repair soft subgrade soil areas as identified and directed by the Geotechnical Engineer.
- D. Excavate to adequate depth for placement of Structural Fill, Subbase Course and/or Base Course Soil Materials.

3.6 EXCAVATION FOR UTILITY TRENCHES

- A. Comply with the requirements of the ISPWC and the Local Agency Having Jurisdiction Standard Specifications.
- B. Excavate trenches to indicated gradients, lines, depths and elevations. Utility cover shall be per Division 33 and the Drawings.
- C. Excavate trenches to a minimum width of 24" plus pipe or conduit outside diameter. Provide uniform clearance on each side of pipe or conduit. Excavate trench walls vertically from trench bottom to 12 inches higher than top of pipe or conduit unless otherwise indicated.
- D. Trench Bottoms: Excavate and shape trench bottoms to provide uniform bearing and support of pipes and conduit. Shape subgrade to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits. Remove projecting stones and sharp objects along trench subgrade.
 - 1. Excavate trenches 6 inches deeper than elevation required in rock or other unyielding bearing material, 4 inches deeper elsewhere, to allow for bedding course.

3.7 EXCAVATION FOR LANDSCAPE AREAS

- A. Excavate to indicated lines, cross sections, elevations and subgrades.
- B. The exposed subgrade shall be visually inspected to confirm it is firm and unyielding.
- C. Subgrade upper 6-inches shall be compacted to 92% of ASTM D698.
- D. Repair soft subgrade soil areas as identified and directed by the Geotechnical Engineer.
- E. Excavate to adequate depth for placement of Topsoil at all landscape areas, coordinate with drawings and specification section 32 92 00 and 32 93 00.

3.8 SUBGRADE INSPECTION

- A. Notify Owner's Representative when excavations have reached required subgrade elevations.
- B. Prior to placement of subbase course and base course material at building and paved areas, the exposed subsoil surface should be proof-rolled under the observation of the Geotechnical Engineer.
- C. Cut out soft or otherwise unsuitable areas of subgrade not capable of supporting structural loads. Backfill with Granular Structural Fill and compact to density equal to or greater than requirements for subsequent backfill material. Prior to placing Granular Structural Fill, the Geotechnical Engineer shall evaluate the over-excavated subgrade to determine if a Geotextile should be placed on the over-excavated subgrade.

- D. Reconstruct subgrades damaged by freezing temperatures, frost, rain, accumulated water, or construction activities, as directed by the Owner's Representative.

3.9 STORAGE OF SOIL MATERIALS

- A. Stockpile borrow soil materials and excavated satisfactory soil materials without intermixing. Place, grade, and shape stockpiles to drain surface water. Protect as necessary to prevent windblown dust.
 - 1. Stockpile soil materials away from edge of excavations.
 - 2. Coordinate stockpile requirements with the requirements of the Agency Having Jurisdiction and acceptable BMP's.
- B. Prepare and amend topsoil per specification section 32 93 00.

3.10 BACKFILL - GENERAL

- A. Upon approved preparation and compaction of subgrade, placement of Structural Fill, Subbase Course and Base Course Fill shall proceed.
- B. Place Backfill materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.
- C. Surface of Backfill shall be smooth, even surface. Remove ridges and fill depressions as required to meet finish grades.
- D. Coordinate placement with Specification Section 03 30 00 and Civil, Architectural and Structural Drawings.

3.11 STRUCTURAL FILL - GENERAL

- A. Soils for use as Structural Fill shall be as defined the by Geotechnical Investigation and this section.
- B. Place Structural Fill as required to achieve correct subgrade elevation for placement of Subbase Course and Base Course fill.
- C. Structural Fill materials should be placed in layers not to exceed 6-inches in loose thickness.
- D. Structural Fill material should be moisture-conditioned to achieve optimum moisture content prior to compaction.
- E. Each layer of fill should be compacted to the following density:
 - 1. Below Rigid Pavements: A minimum of 95% of maximum dry density, as determined by ASTM D 1557.
 - 2. Below Flexible Pavements: A minimum of 92% of ASTM D1557 or 95% of ASTM D698.

3.12 GRANULAR STRUCTURAL FILL - GENERAL

- A. Soils for use as Granular Structural Fill shall be as defined by this section.
- B. Fill materials should be placed in layers not to exceed 12-inches in loose thickness.

- C. Granular Structural Fill material should be moisture-conditioned to achieve optimum moisture content prior to compaction.
- D. Each layer of fill should be compacted to the following density:
 - 1. Below Structures and Rigid Pavements: A minimum of 95% of maximum dry density, as determined by ASTM D 1557.
 - 2. Below Flexible Pavements: A minimum of 92% of ASTM D1557 or 95% of ASTM D698.

3.13 UTILITY TRENCH BACKFILL

- A. Place backfill on subgrades free of mud, frost, snow or ice.
- B. Place and compact bedding course on trench bottoms and where indicated. Shape bedding course to provide continuous support for bells, joints, and barrels of pipes and for joints, fittings, and bodies of conduits.
- C. Backfill utility trenches using Bedding Course or Granular Structural Fill, compacted as specified below. Sufficient backfill should be placed over the utility before compacting with heavy equipment to prevent damage.
- D. Subbase Course Fill should be placed and compacted to density equal to or greater than requirements for subsequent backfill material.
- E. Place Subbase Course Fill at the following maximum loose depths prior to compaction:
 - 1. Bedding Course: 6-Inch lifts prior to compaction
 - 2. Granular Structural Fill: 12-Inch lifts prior to compaction.
- F. Place and compact final backfill of satisfactory soil to final subgrade elevation.
- G. Install warning tape directly above utilities, 12-inches below finished grade, except 6-inches below subgrade under pavements and slabs.

3.14 SUBBASE COURSE FILL

- A. Upon approved preparation and observed proof-rolling of subgrade, placement of Subbase Course Fill shall proceed.
- B. Place Granular Structural Fill as required to achieve correct subgrade elevation for placement of Base Course fill and indicated surface improvements. Place Subbase Course fill in maximum 12-inch loose lifts and compact as noted below.
- C. Surface of Subbase Course Fill shall be smooth, even surface. Remove ridges and fill depressions as required to meet finish grades.
- D. Coordinate with Specification Section 03 30 00 and Architectural and Structural Drawings for placement for Building Foundations and Building Floor Slab.
- E. Each layer of Subbase Course fill should be compacted to the following density:
 - 1. Below Building Foundations, Building Floor Slab, Structures and Rigid Pavements: A minimum of 95% of maximum dry density, as determined by ASTM D 1557.

2. Below Flexible Pavements: A minimum of 92% of ASTM D1557 or 95% of ASTM D698.

3.15 BASE COURSE FILL

- A. Upon approved placement and compaction of Structural Fill and Subbase Course Fill, placement of Base Course Fill shall proceed.
- B. Place and compact Base Course material in layers to required elevations. Place in maximum 6-inch loose lifts.
- C. Place Base Course materials evenly on all sides of structures to required elevations, and uniformly along the full length of each structure.
- D. Surface of Base Course shall be smooth, even surface. Remove ridges and fill depressions as required to meet finish grades.
- E. Base Course Fill at Structures, Building Slabs and Building Foundations:
 1. Building Floor Slabs: Compacted depth as shown on the Drawings
 2. Structures: Compacted depth as shown on the Drawings.
 3. Building Foundations: Not required.
 4. Coordinate with Specification Section 03 30 00 and Architectural and Structural Drawings.
- F. Base Course at Paving, Curbs and Walks:
 1. Asphalt Paving: Compacted depth as indicated on the drawings.
 2. Concrete Flatwork, Curbs & Walks: Compacted depth as indicated on the drawings.
- G. Place Base Course in maximum 6-inch thick loose lifts to bottom of structure, building slab, pavement, curb or walk. Base Course shall be moisture conditioned to within 2 percent of the optimum moisture.
- H. Each layer of Base Course fill should be compacted to the following density:
 1. Below Structures and Rigid Pavements: A minimum of 95% of maximum dry density, as determined by ASTM D 1557.
 2. Below Flexible Pavements: A minimum of 95% of the maximum dry density as determined by ASTM D 698.

3.16 LANDSCAPE FILL

- A. Coordinate placement of topsoil with Specification Sections 32 92 00 & 32 93 00 and drawings.

3.17 GRADING

- A. General: Uniformly grade areas to a smooth surface, free of irregular surface changes. Comply with compaction requirements and grade to cross sections, lines, and elevations indicated.
 1. Provide a smooth transition between adjacent existing grades and new grades.

2. Cut out soft spots, fill low spots, and trim high spots to comply with required surface tolerances.
- B. Site Rough Grading: Slope grades to direct water away from buildings and to prevent ponding. Finish subgrades to required elevations within the following tolerances:
 1. Turf or Unpaved Areas: Plus or minus 1 inch.
 2. Walks: Plus or minus ½-inch.
 3. Pavements: Plus or minus ½-inch.
- C. Site drainage should be directed away from structural areas, to avoid ponding of waters during storm events.
- D. Grading inside Building Lines: Finish subgrade to a tolerance of 1/4 inch when tested with a 10-foot straightedge.

3.18 FIELD QUALITY CONTROL

- A. Perform field inspection and testing under provisions of Division 1.
- B. Testing Agency: Owner will engage a qualified geotechnical engineering testing agency to perform tests and inspections.
- C. Allow testing agency to inspect and test subgrades and each fill or backfill layer. Proceed with subsequent earthwork only after test results for previously completed work comply with requirements.
- D. Footing Subgrade: At footing subgrades, at least one test of each soil stratum will be performed to verify design bearing capacities. Subsequent verification and approval of other footing subgrades may be based on a visual comparison of subgrade with tested subgrade when approved by Owner's Representative.
- E. Testing agency will perform compaction testing at the following locations and frequencies:
 1. Pavement, Walks and Building Slab Areas: At subgrade and at each compacted fill and backfill layer, at least one test for every 5,000 SF (Building Slab) and every 10,000 SF (paved areas) but in no case fewer than three tests.
 2. Foundation Wall Backfill: At each compacted backfill layer, at least one test for every 100 feet or less of wall length, but no fewer than two tests.
 3. Trench Backfill: At each compacted initial and final backfill layer (maximum 8" lifts), at least one test for every 100 feet or less of trench length, but no fewer than two tests.
 4. Landscape Fill: at each compacted fill and backfill layer, at least one test for every 20,000 SF but in no case fewer than two tests.
 5. Geotechnical Test Pits & demolished utilities: one test at each compacted fill layer at each test pit or demolished seepage bed.
- F. When testing agency reports that subgrades, fills, or backfills have not achieved degree of compaction specified, scarify and moisten or aerate, or remove and replace soil materials to depth required; re-compact and retest until specified compaction is obtained.

3.19 PROTECTION

- A. Protecting Graded Areas: Protect newly graded areas from traffic, freezing, and erosion. Keep free of trash and debris.
- B. Repair and reestablish grades to specified tolerances where completed or partially completed surfaces become eroded, rutted, settled, or where they lose compaction due to subsequent construction operations or weather conditions.
 - 1. Scarify or remove and replace soil material to depth as directed by Owner's Representative; reshape and re-compact.
- C. Where settling occurs before Project correction period elapses, remove finished surfacing, backfill with additional soil material, compact, and reconstruct surfacing.
 - 1. Restore appearance, quality, and condition of finished surfacing to match adjacent work, and eliminate evidence of restoration to greatest extent possible.

3.20 DISPOSAL OF SURPLUS AND WASTE MATERIALS

- A. Remove surplus satisfactory soil and waste materials, including unsatisfactory soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Soil preparation, amendment and fertilization.
2. Granular soil conditioner.
3. Weed abatement.
4. Finish grading.
5. Turf sodding.
6. Sod establishment.
7. Turf maintenance.
8. Clean-up.

B. Definitions

1. Weeds: Include Dandelion, Jimsonweed, Quackgrass, Horsetail, Morning Glory Rush Grass, Mustard, Lambsquarter, Chickweed, Cress, Crabgrass, Canadian Thistle, Nutgrass, Poison Oak, Blackberry, Tansy Ragwort, Bermuda Grass, Johnson Grass, Poison Ivy, Nut Sedge, Nimble Will, Bindweed, Bent Grass, Wild Garlic, Perennial Sorrel, Brome Grass, Black Henbane, Buffalobur, Common Crupina, Dalmatian Toadflax, Diffuse Knapweed, Dyer's Woad, Eurasian Watermilfoil, Field Bindweed, Hoary Cress, joined Goatgrass, Leafy Spurge, Matgrass, Meadow Hawkweed, Meadow Knapweed, Miliun, Musk Thistle, Orange Hawkweed, Perennial Pepperweed, Perennial Sowthistle, Poison Hemlock, Puncturevine, Purple Loosestrife, Russian Knapweed, Scotch Broom, Scotch Thistle, Silverleaf Nightshade, Skeletonleaf Bursage, Spotted Knapweed, Syrian Beancaper, Toothed Spurge, Yellow Starthistle, Yellow Toadflax.
2. Finish Grade: Elevation of finished surface of planting soil.
3. Planting Soil: Imported topsoil, manufactured topsoil, or surface soil modified to become topsoil; mixed with soil amendments.
4. Topsoil: Material per Specification Section 31 20 00.
5. Subgrade: Surface or elevation of subsoil remaining after completing excavation, or top surface of a fill or backfill immediately beneath planting soil.

C. Related Sections include the following:

1. Division 01 Specifications.
2. Specification Section 31 10 00 "Site Clearing."
3. Specification Section 31 20 00 "Earth Moving."
4. Specification Section 32 84 00 "Planting Irrigation."

1.2 REFERENCES

- #### A. FS O-F-241 - Fertilizers, Mixed, Commercial.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
 - 1. Soil Amendment Fertilizer.
 - 2. Granular Soil Conditioner.
 - 3. Turf Starter Fertilizer.
 - 4. Turf Maintenance Fertilizer.
 - 5. Weed Control Herbicide.
- B. Submit sod certification for grass species and location of sod source.
- C. Submit compost testing data to confirm product meets specified parameters.
- D. Sod Establishment Irrigation Schedule.
- E. Turf Maintenance Irrigation Schedule.

1.4 QUALITY ASSURANCE

- A. Sod:
 - 1. Minimum age of 12 months, with root development that will support its own weight without tearing, when suspended vertically by holding the upper two corners.
 - 2. Qualifications: Sod Producer shall be company specializing in sod production and harvesting with minimum five years of experience.
- B. Regulatory Requirements:
 - 1. Comply with regulatory agencies for fertilizer and herbicide composition.
- C. Installer Qualifications (Firm): In order to qualify for the landscape installation work on this project, the following information must be submitted with the Bid Submittal.
 - 1. A signed statement of experience certifying a minimum of five (5) years in business and describing in detail, experience in the installation of a minimum of three (3) projects of similar nature and scope.
- D. Installer Qualifications (Individual): In order to qualify for the landscape installation work on this project, the following information must be submitted with the Bid Submittal.
 - 1. Landscape Installation/Maintenance Supervisor/Manager: This person shall have a minimum of three (3) years' experience in handling/maintaining the specified materials, and in sizes specified, in installations/maintenance of similar scope.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver, store, protect and handle products to site under provisions of Division 01.
- B. Packaged materials: Deliver packaged materials in original, unopened containers showing weight, certified analysis, name and address of manufacturer, and indication of compliance with State and Federal laws, as applicable.
- C. Sod:
 - 1. Deliver sod on pallets, in rolls. Protect exposed roots from dehydration.

2. Do not deliver more sod than can be laid within 24 hours.
3. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer.

D. Bulk Materials:

1. Do not dump or store bulk materials near structures, utilities, walkways and pavements, or on existing turf areas or plants.
2. Provide erosion-control measures to prevent erosion or displacement of bulk materials; discharge of soil-bearing water runoff, and airborne dust reaching adjacent properties, water conveyance systems, or walkways.
3. Accompany each delivery of bulk materials with appropriate certificates.

1.6 PROJECT/SITE CONDITIONS

- A. Do not install plant life when ambient temperatures may drop below 45 deg F or rise above 90 deg F.

1.7 SEQUENCING AND SCHEDULING

- A. Coordinate work under provisions of Division 01.
- B. Coordinate sod placement work with irrigation system work specified and in the Drawings.
- C. Coordinate timing of weed abatement in sodded areas.

1.8 WARRANTY

- A. Contractor shall warrant work as provided by the General and Supplementary Conditions and Division 01 Specifications.

PART 2 - PRODUCTS

2.1 PRODUCTS and MATERIALS

- A. Substitutions or equivalent products shall be in accordance with Division 01 Specifications.
- B. Topsoil: Compacted depth per Specifications Section 31 20 00. Place at all sod areas. Topsoil depth shall exceed specified depth if necessary to fill area to design finish grade.
 1. General Turf Area: 12-inches.
- C. Granular Soil Conditioner: Turface MVP calcined, non-swelling illite and silica clay, or approved equal.
 1. Submit product data and sample for approval prior to ordering.
 2. PROFILE Products, LLC, 800.207.6457 or www.turface.com.
- D. Turf Sod: ASPA Certified Field grown grade; cultivated grass sod; type indicated below; with strong fibrous root system, free of stones, burned or bare spots; containing no more than 5 weeds per 1000 sf. Sod shall be from an established regionally local grower.
 1. Sod shall be Montane Mix Native Blend Sod by Magic Valley Turfgrass, submit for approval

prior to ordering.

- E. Soil Amendment: Compost.
 - 1. Compost shall be measured by the cubic yard at the point of loading.
 - 2. Compost shall be a well decomposed, stable, weedfree organic matter source. It shall be derived from agricultural, food, or industrial residuals; biosolids (treated sewage sludge); yard trimmings or source-separated or mixed solid waste. The product shall contain no substances toxic to plants, will possess no objectionable odors and shall not resemble the raw material from which it was derived.
 - 3. Compost shall meet the following parameters:
 - a. pH - Acceptable Range: 6.0 - 8.4 (1:5 by weight).
 - b. Soluble Salts - Acceptable Range: 0-7 mmhos/cm (1:5 by weight).
 - c. Maturity Indicators:
 - 1) Ammonia N / Nitrate N Ratio - < 4.
 - 2) Carbon to Nitrogen Ratio < 12.
 - d. Particle size: 98 percent pass through 1/2-inch screen.
 - e. Physical contaminants (inert matter): less than 1 percent
 - f. Submit lab testing indicating compliance with the parameters above. Lab testing shall also provide the following information: Bulk Density; percent Inorganics; percent Moisture; Particle Size Distribution, Primary and Secondary Nutrients; Trace Elements; Organic Matter Expressed in Percentage and Pounds per CY.
- F. Soil Amendment: Pre-Plant Fertilizer.
 - 1. NPK Fertilizer: Wilbur-Ellis Perfection 16-20-0.
 - 2. Humic Acid: Live Earth Humate Soil Conditioner.
- G. Soil Amendment: Turf Starter Fertilizer.
 - 1. NPK Fertilizer: Wilbur-Ellis Perfection Mix #29 15-15-15 with minors.
- H. Turf maintenance Fertilizer:
 - 1. NPK Fertilizer: Wilbur-Ellis Perfection 16-16-16 (50 percent of nitrogen from Duration 90).
- I. Water: Clean, fresh and free of substances or matter which could inhibit vigorous growth of grass.
- J. Pre-Emergent Herbicide: Tupersan Herbicide Wettable Powder, Tenacity, or approved equal.
- K. Weed Control Herbicide:
 - 1. Selective Broadleaf Weed Control: 2,4-D Amine Weed Killer.
 - 2. Broad Spectrum Herbicide: Roundup Pro.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that prepared topsoil is ready to receive the work of this Section.
- B. Beginning of installation means acceptance of existing site conditions.
- C. All planting areas shall be weed free at the time of sod installation.

3.2 SOIL AMENDMENTS

A. Granular Soil Conditioner - All Turf Areas:

- 1. Coordinate placement and installation with topsoil placement. After approximate finished grades have been established, soil shall be conditioned in the following manner.
- 2. Place conditioner at 2,500 lbs. / 1000 SF. Location is shown on the Drawings.
- 3. Blend soil conditioner into the topsoil layer (6-inch depth) with a mechanical tiller for an even homogenous mixture of soil and conditioner. Tilling operation shall be performed twice with the second run at a 45-degree angle to the first run. Tilling must be performed with a reverse-tilling machine, Rotadiron, Blec-a-Vator, or equal. Do not exceed specified tilling depth.
- 4. Coordinate placement and blending of Granular Soil Conditioner with topsoil amendments of this Section.
- 5. Placement and blending of Granular Soil Conditioner shall occur prior to Weed Abatement operations.

B. Soil Amendments: After approximate finished grades have been established soil shall be conditioned and fertilized in the following manner. Soil amendments shall, at the following rate, be uniformly spread and cultivated thoroughly by means of mechanical tiller into the top soil layer; minimum 4 inch depth and maximum 6 inch depth.

- 1. Application Rates:
 - a. Soil Amendment: Compost - 1 CY per 1000 SF.
 - b. Soil Amendment: Humic Acid - 15 lbs per 1000 SF.
 - c. Soil Amendment: NPK 16-20-0 - 3 lbs per 1000 SF.
- 2. Coordinate placement and tilling of Soil Amendments with Granular Soil Conditioner operations.
- 3. Placement and blending of Soil Amendments shall occur prior to Weed Abatement operations.

C. Placement and tilling of soil amendments listed in this Section must be completed prior to sod placement. Contractor shall photo document installation of all soil amendments and mechanical tilling and provide to the architect for review and approval. Contractor shall provide product receipts for all products specified in this Section for review and approval prior to granting of substantial completion. Receipts shall list job name, contractor name, date and detailed product and quantity information.

3.3 FINISH GRADING

- A. Upon completion of soil amendment operations, finish grading operations shall begin.

- B. Coordinate with Section 31 20 00 "Earth Moving."
- C. Grade topsoil to smooth, even surface with loose, uniformly fine texture. Remove ridges and fill depressions, as required to meet finish grades. Finish grade of topsoil related to adjacent site elements shall be:
 - 1. Sod Areas: 1-inch below top of adjacent pavement, valve box, vault, etc.
 - 2. Planter Bed Areas: 3-inches below top of adjacent pavement, valve box, vault, etc.
- D. Remove all roots, weeds, rocks and foreign material on the surface. Coordinate with Section 328400 for removal of debris brought to the surface during trenching operations.
- E. Prior to placement of sod, topsoil shall be water settled through application of .5-inch of precipitation through the irrigation system. Coordinate with Section 32 84 00. All areas of settlement shall be top dressed with approved topsoil material to provide a smooth, even surface. Any settlement of soils after placement of sod shall be corrected by the contractor at no cost to the owner. Do not allow erosion or rilling of topsoil.
- F. Tolerance: Top of Topsoil - Plus .5-inch, no minus.

3.4 WEED ABATEMENT

- A. All areas to be sodded shall have weed abatement operations performed after placement of granular soil conditioner, soil amendments and Finish Grading and prior to sodding operations.
- B. Upon completion of Finish Grading, the contractor shall confirm all areas are visibly weed free. Contractor shall spray all exposed weeds with Roundup. Comply with mixing instructions on product label.
- C. Irrigate all landscape areas to apply 1-inch of precipitation over a 3 day period. At conclusion of this watering period, discontinue watering for seven (7) days.
- D. After the seven day period inspect the site. Apply application of Roundup to all visible weeds. Apply in strict conformance with manufacturer's product label. Do not water for at least five (5) days, remove all exposed weeds from the site that would interfere with sodding operations.
- E. Weed Abatement operations shall be sequenced to be complete a minimum of seven (7) days and a maximum of fourteen (14) days prior to sodding operations. It is acceptable to phase weed abatement areas to match phased installation of sodding operations.

3.5 SOD PLACEMENT

- A. General:
 - 1. Topsoil placement, granular soil conditioner placement, soil amendments placement and tilling, compaction and finish grading shall be completed and approved by the landscape architect prior to sod placement.
 - 2. Do not place sod when ground is too wet or too dry.
 - 3. Temperature shall be between 45 F and 90 F for a 24 hour period.
 - 4. Wind shall be less than 20 mph.
- B. Turf Sod Placement:

1. Moisten prepared surface immediately prior to laying sod.
 2. Lay sod immediately after delivery to site to prevent deterioration.
 3. Lay sod tight with no open joints visible, and no overlapping; stagger end joints 12 inches minimum. Do not stretch or overlap sod pieces.
 4. Lay smooth. Align with adjoining grass areas.
 5. Place top elevation of sod 1/2- inch below adjoining edging paving, curbs and sidewalks.
 6. On 3:1 or greater slopes, lay sod perpendicular to slope and secure every row with wooden pegs at maximum 2 feet on center. Drive pegs flush with soil portion of sod.
- C. Soil Amendments Turf Starter: Final operation after sod placement, and prior to irrigation, apply to the sod surface. Water into sod with irrigation system.
1. Application Rates: Turf Starter - Mix #29 15-15-15: 3 lbs per 1000 SF.
- D. Placement of Turf Starter fertilizer listed in this Section must be completed immediately after sod placement. Contractor shall photo document installation of turf starter fertilizer and provide to the Architect for review and approval. Contractor shall provide product receipts for all products specified in this Section for review and approval by the landscape architect prior to granting of Substantial Completion.
- E. Water sodded areas immediately after installation of turf starter fertilizer.
- F. After initial irrigation of sod, allow soil to dry sufficiently for rolling. Roll sodded areas to ensure good bond between sod and soil and to remove minor depressions and irregularities. Roller not to exceed 100 lbs.

3.6 SOD ESTABLISHMENT

- A. General: Starting immediately after sod placement, sod establishment will begin. Irrigation, mowing, weed control and fertilization shall be the responsibility of the contractor as defined herein. Protect sodded area with signs to prevent traffic throughout the establishment period.
- B. The establishment period shall have a duration of thirty (30) days.
- C. Irrigation:
1. Contractor shall submit for approval a proposed "Sod Establishment Irrigation Schedule". This schedule shall include Zone designation, days per week, cycles per day and cycle run time. Include targeted daily and weekly precipitation rates for each zone based on current climatic conditions.
 2. Water shall be applied to moisten the soil to approximately 2-inch depth but avoid overwatering and creating areas of standing water or under watering and creating areas of dry soil.
 3. Contractor shall monitor irrigation daily to identify areas receiving too much or too little precipitation.
 4. Slopes shall be monitored for erosion and corrective action taken immediately.
 5. Once the sod has been mown three times, approximately 3 weeks, the frequency of irrigation shall be reduced and run times increased to provide water deeper into the soil.

- D. Mowing:
 - 1. Mowing shall begin when the grass blades reach a height of approximately 2.5-inches.
 - 2. All cutting equipment shall be sharp and mowers shall be adjusted precisely to the proper mowing height.
 - 3. Mowing heights during the establishment period shall be 1.75-inch to 2-inch.
 - 4. Mowing shall occur every 7 days or more often if growth dictates. At no point shall the height of the turf grass be more than 2.5-inches.
 - 5. Grass clippings shall be collected and removed from the site.
 - 6. Coordinate irrigation schedule with mowing schedule. At no time shall mowing occur if soil is wet and rutting may occur.
- E. Weed Control: Control growth of weeds throughout establishment period.
- F. Upon completion of the establishment period the Turf Maintenance period shall begin.

3.7 TURF MAINTENANCE

- A. Maintenance shall be according to the following standards. All areas shall be mown, weeded and cultivated at intervals of not more than seven (7) days. Watering, trash and debris removal, mowing, rolling, edging, trimming, fertilization, spraying and pest control, as required, shall be included in the maintenance period. Cleaning of street gutters and sidewalks shall be included. The Contractor shall be responsible for maintaining adequate protection of the area. Damaged areas shall be repaired at the Contractor's expense. The Contractor shall resod all spots or areas within the lawn where normal turf growth is not evident.
- B. The Turf Maintenance Period shall have a minimum duration of sixty (60) days and continue until the date of Substantial Completion.
- C. Irrigation:
 - 1. Contractor shall submit for approval a proposed "Turf Maintenance Irrigation Schedule." This schedule shall include Zone designation, days per week, cycles per day and cycle run time. Include targeted daily and weekly precipitation rates for each zone based on current climatic conditions.
 - 2. Water shall be applied to moisten the soil appropriately for the current, seasonal climatic conditions. Avoid overwatering and creating areas of standing water or under watering and creating areas of dry soil.
 - 3. Irrigation shall be monitored weekly to identify areas receiving too much or too little precipitation.
 - 4. Slopes shall be monitored for erosion and corrective action taken immediately.
- D. Mowing:
 - 1. Mowing shall occur at intervals of not more than seven (7) days or more often if growth dictates.
 - 2. All cutting equipment shall be sharp and mowers shall be adjusted precisely to the proper mowing height.
 - 3. Mowing heights during the maintenance period shall be 2.25-inch; at no point shall the height of the turf grass be more than 3-inches.

4. Grass clippings shall be collected and removed from the site.
 5. Coordinate irrigation schedule with mowing schedule. At no time shall mowing occur if soil is wet and rutting may occur.
 6. Edges shall be trimmed as needed for neat appearance.
- E. Weed Control:
1. Control growth of weeds throughout maintenance period. Inspect turf areas every seven (7) days for weed growth.
 2. Utilize 2,4-D broadleaf weed killer to control weeds in all turf areas.
- F. Fertilization:
1. Turf Maintenance Fertilizer (16-16-16) shall be applied at a rate of 3 lbs per 1000 SF, approximately sixty (60) days following placement of sod.
- G. Continuously maintain the entire Project area during the progress of work until the date of Substantial Completion.

3.8 FIELD QUALITY CONTROL

- A. Perform field inspections under provisions of Division 01 Specifications.
- B. Coordinate field inspections with Specification Sections 32 84 00 and 32 93 00.
- C. Contractor Performed Inspections: The contractor shall perform the following applicable inspections and provide written confirmation of completed and successful installation to the Architect.
1. Soil Amendments: Provide required photographs and product receipts demonstrating successful placement and tilling of specified soil amendments.
 2. Sod - Turf Starter Fertilizer: Provide required photographs and product receipts demonstrating successful placement of Turf Starter Fertilizer.
 3. Turf Maintenance - Maintenance Fertilizer: Provide required photographs and product receipts demonstrating successful placement of Turf Maintenance Fertilizer.

3.9 CLEANING

- A. After all sodding operations have been completed; remove all trash, excess soil or rubbish from the property. All scars, ruts or other marks in the ground caused by this work shall be repaired and the ground left in a neat and orderly condition throughout the site. Contractor shall pick up all trash resulting from this work no less frequently than each day before leaving the site. All trash shall be removed completely from the site. The Contractor shall leave the site area broom-clean and shall wash down all paved areas within the Contract area, leaving the premises in a clean condition acceptable to the Architect and Construction Manager.

3.10 PROTECTION

- A. Protect sodded areas with warning signs until date of Substantial Completion.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Tree and shrub planting pits.
2. New trees and shrubs and accessories.
3. Soil amendments and fertilizer.
4. Landscape rock mulch and landscape boulders.
5. Tree and shrub establishment.
6. Tree and shrub maintenance.
7. Shredded Wood Mulch.

B. Definitions:

1. Weeds: Include Dandelion, Jimsonweed, Quackgrass, Horsetail, Morning Glory, Rush Grass, Mustard, Lambsquarter, Chickweed, Cress, Crabgrass, Canadian Thistle, Nutgrass, Poison Oak, Blackberry, Tansy Ragwort, Bermuda Grass, Johnson Grass, Poison Ivy, Nut Sedge, Nimble Will, Bindweed, Bent Grass, Wild Garlic, Perennial Sorrel, Brome Grass, Black Henbane, Buffalobur, Common Crupina, Dalmatian Toadflax, Diffuse Knapweed, Dyer's Woad, Eurasian Watermilfoil, Field Bindweed, Hoary Cress, Joined Goatgrass, Leafy Spurge, Matgrass, Meadow Hawkweed, Meadow Knapweed, Miliun, Musk Thistle, Orange Hawkweed, Perennial Pepperweed, Perennial Sowthistle, Poison Hemlock, Puncturevine, Purple Loosestrife, Russian Knapweed, Scotch Broom, Scotch Thistle, Silverleaf Nightshade, Skeletonleaf Bursage, Spotted Knapweed, Syrian Beancaper, Toothed Spurge, Yellow Starthistle, Yellow Toadflax.
2. Plants: Living trees, plants, and ground cover as specified in this Section and indicated on Drawings, and described in ANSI Z60.1.

1.2 REFERENCES

- A. ANSI Z60.1 - Nursery Stock.
- B. NAA (National Arborist Association) - Pruning Standards for Shade Trees.
- C. FSO-F-241 - Fertilizers, Mixed, Commercial.

1.3 SUBMITTALS

- A. Provide submittals per Division 01 Specifications.
- B. Submit list of plant life sources and confirmed availability.
- C. Landscape Bark Mulch: Shredded Bark Mulch: 1-gallon bag with sample name and product material for each type and size of mulch.
- D. Landscape Rock Mulch:

1. 4-inch to 6-inch Round Cobblestone Rock: 5-gallon bucket with sample name and product material for each type and size of mulch and Representative photographs of mulch at source.
 2. 2-inch to 4-inch Round Cobblestone Rock: 5-gallon bucket with sample name and product material for each type and size of mulch and Representative photographs of mulch at source.
- E. Landscape Boulders: Representative photographs of boulders at source.
- F. Product Data: Provide Manufacturer's (catalog) product information.
1. Tree Stakes.
 2. Tree Ties.
 3. Soil Amendments and Fertilizer.
 4. Maintenance Fertilizer.
 5. Pre-emergent herbicide.
- G. Tree and Shrub Establishment Irrigation Schedule.
- H. Tree and Shrub Maintenance Irrigation Schedule.

1.4 QUALITY ASSURANCE

- A. Nursery Qualifications: Company specializing in growing and cultivating the plants with three years' experience.
- B. Installer Qualifications: Company specializing in installing and planting the plants with three years' experience.
- C. Maintenance Services: Performed by Installer.
- D. Regulatory Requirements:
1. Comply with regulatory agencies for fertilizer and herbicide composition.
 2. Plant Materials: Certified by state department of agriculture; Described by ANSI Z60.1; free of disease or hazardous insects.
- E. Quality:
1. Plants shall be 100 percent sound, healthy, vigorous, and free from plant disease, insect pests or their eggs, noxious weeds, and have healthy, normal root systems. Container stock shall be well established and free of excessive root-bound conditions.
 2. Do not prune plants or top trees prior to delivery.

3. Plant materials shall be subject to approval by Architect as to size, health, quality and character. Architect reserves the right to inspect trees and shrubs either at place of growth or at site for compliance with requirements.
4. Bare root trees are not acceptable.

F. Measurements:

1. Measure height and spread of specimen plant materials with branches in their normal position as indicated on Drawings or Plant List.
2. Measure caliper of trees 6 inches above surface of ground.
3. Where caliper or other dimensions of plant materials are omitted from Plant List, plant materials shall be normal stock for type listed.
4. Plant materials larger than those specified may be supplied with approval of Architect
 - a. If complying in all other respects.
 - b. If at no additional cost to Owner.
 - c. If sizes of roots or balls are increased proportionately.
5. Shape and Form - Plant materials shall be symmetrical or typical for variety and species and conform to measurements specified in Plant List.
6. Provide plant materials from a licensed nursery.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect and handle products to site under provisions of Division 1.
- B. Deliver fertilizer in waterproof bags showing weight, chemical analysis, and name of manufacturer.
- C. Protect and maintain plant life until planted.
- D. Deliver plant life materials immediately prior to placement. Keep plants moist.

1.6 PROJECT/SITE CONDITIONS

- A. Do not install plant life when ambient temperatures may drop below 40 deg F or rise above 90 deg F.
- B. Do not install plant life when wind velocity exceeds 20 mph.

1.7 SEQUENCING AND SCHEDULING

- A. Coordinate work under provisions of Division 01 Specifications.
- B. Install plant life after and coordinate with installation of underground irrigation system piping and watering heads specified in Section 32 84 00.
- C. Coordinate plant installation work with irrigation work specified and in the Drawings.
- D. Coordinate tree installation with seeding and sodding installation per 32 92 00.

1.8 WARRANTY

- A. Contractor shall warrant work as provided by the General and Supplementary Conditions and Division 01 Specifications.

PART 2 - PRODUCTS

2.1 PRODUCTS AND MATERIALS

- A. Substitutions or equivalent products shall be in accordance with Division 01 Specifications.
- B. Topsoil: Material per Specifications Section 31 20 00.
 - 1. Depth and volume as required for tree pits as noted in this section and on the Drawings. Provide necessary volume to ensure planter areas are filled to specified finish grade.
- C. Trees, Shrubs, Plants and Ground Cover: Species and size identifiable in plant schedule on the Drawings, grown in climatic conditions similar to those in locality of the Work.
- D. Soil Amendment Materials:
 - 1. Granular Soil Conditioner: Turface MVP calcined, non-swelling illite and silica clay, or approved equal.
 - a. Submit product data and sample for approval prior to ordering.
 - b. PROFILE Products, LLC, 800.207.6457 or www.turface.com
 - 2. Fertilizer:
 - a. Commercial Grade Compost: Refer to Section 32 92 00.
 - b. Humic Acid: Live Earth Humate Soil Conditioner.
 - c. Planting Tablet Fertilizer: 21 gram - Agriform.
 - 3. Water: Clean, fresh, and free of substances or matter which could inhibit vigorous growth of plants.
- E. Maintenance Fertilizer: Live Earth Tree and Shrub 5-10-10.
- F. Pre-Emergent Herbicide: Tupersan Herbicide Wettable Powder, Tenacity, or approved equal.
- G. Weed Control Herbicide:
 - 1. Selective Broadleaf Weed Control: 2,4-D Amine Weed Killer.
 - 2. Broad Spectrum Herbicide: Roundup Pro.

2.2 ACCESSORIES

- A. Stakes: As noted on the Drawings.
- B. Tree Ties: Durable rubber ties designed for staking of trees. Length as required per manufacturer's specifications. Submit manufacturer's catalog cut sheet for approval prior to ordering.
- C. Landscape Bark Mulch:

1. 3-inch minimum depth of approximately 1-inch length shredded bark wood chips derived from hardwood or softwood tree species.
 2. Wood mulch shall not contain any trash, debris, rocks or other material harmful to plant growth.
 3. Submit 1-gallon bag sample and name and contract information of source for approval prior to ordering.
- D. Landscape Rock Mulch:
1. 12-inch minimum depth of 4-inch to 6-inch round cobblestone rock. Rock shall be free of fines and rock less than 4-inch in size. Submit sample for approval prior to installation. Color: Tan, Grey.
 2. 12-inch minimum depth of 2-inch to 4-inch round cobblestone rock. Rock shall be free of fines and rock less than 2-inch in size. Submit sample for approval prior to installation. Color: Tan, Grey.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that prepared topsoil is ready to receive work.
- B. Verify that required underground utilities are available, in proper location, and ready for use.
- C. All planters shall be completely filled with topsoil to within 3-inch / 12-inch of adjacent curb, walk, etc. Topsoil elevation shall be adjusted per landscape mulch type, see Drawings.

3.2 SOIL PREPERATION

- A. Prior to placement of plants, topsoil shall be water settled through application of .5-inch of precipitation through the irrigation system. Coordinate with Section 32 84 00 and 32 92 00. All areas of settlement shall be top dressed with approved topsoil material to provide a smooth, even surface. Any settlement of soils after placement of plants shall be corrected by the Contractor at no cost to the Owner.
- B. Tree Pit Backfill Planting Mix: Blend topsoil and soil amendments and fertilizer for tree pit backfill at the following rates. Blend amendments thoroughly with soil backfill. Coordinate with Drawings for size of planting pit. Blend topsoil and amendments with native soil at bottom and edge of pit.
 1. Tree Pits shall be: 5 feet by 5 feet by 1.5 feet.
 2. Application Rates:
 - a. Granular Soil conditioner: 50 lbs per Tree Pit.
 - b. Humic Acid: 10 lbs per Tree Pit.
 - c. Commercial grade compost - 5 cubic feet per Tree Pit.
 - d. Planting Tablet Fertilizer - 4 tablets per Tree Pit.
- C. Shrub Pit Backfill Planting Mix: Blend topsoil and soil amendments and fertilizer for shrub pit backfill at the following rates. Blend amendments thoroughly with soil backfill. Coordinate

with Drawings for size of planting pit. Blend topsoil and amendments with native soil at bottom and edge of pit.

1. Shrub Pits shall be: 2.5 feet by 2.5 feet by 1 foot.
2. Application Rates:
 - a. Granular Soil conditioner: 10 lbs per Shrub Pit.
 - b. Humic Acid: 2 lbs per Shrub Pit.
 - c. Commercial grade compost - 1 cubic foot per Shrub Pit.
 - d. Planting Tablet Fertilizer - 2 tablets per Shrub Pit.
- D. Placement and blending of soil amendments listed in this section shall be photo documented by the contractor. Document installation of all soil amendment application and blending and provide to the Landscape Architect for review and approval. Contractor shall provide product receipts for all products specified in this section for review and approval by the Landscape Architect. Product receipts shall list date of delivery, delivery address and location, project name, quantity delivered and product delivered.
- E. Representative plant material must be delivered to the site for review and approval by the Landscape Architect prior to installation. Any plant material placed without prior approval is subject to removal at no cost to the Owner.

3.3 EXECUTION

- A. Place boulders for best appearance for review and final orientation by Landscape Architect. Coordinate with Drawings for placement depth into soil. Coordinate with installation of irrigation system and plant material.
- B. Place plants for best appearance for review and final orientation by Landscape Architect.
- C. Set plants vertical.
- D. After placement cut all string, wires, etc. and remove string, wire and burlap from top and sides of root ball before backfilling.
- E. Set plants in pits or beds, partly filled with prepared plant soil mix. Backfill soil mixture in 6 inch layers. Maintain plant materials in vertical position. Add fertilizer tablets in plant pit (at 2/3 full) as per manufacturer's recommendations.
- F. Saturate soil with water when the pit or bed is half full of topsoil and again when full.
- G. Installation of Accessories:
 1. Apply pre-emergent herbicide to planting areas after completion of planting. Planting areas shall be free of existing weed growth prior to application of herbicide. Apply herbicide in accordance with Manufacturer's recommendations.
 2. Place Landscape Mulch and Round River Rock over landscape planting bed areas. See Drawings for location and depth. Keep mulch and round river rock; 6-inch from base of trees and shrubs.
 3. Place shredded bark wood mulch at area shown on drawing. We down during placement to achieve moderate compaction. Rake Smooth.

3.4 TREE AND SHRUB ESTABLISHMENT

- A. General: Starting immediately after tree and shrub placement, establishment will begin and continue through the grow-in period. Irrigation and weed control shall be the responsibility of the Contractor as defined herein. Protect planter areas with signs to prevent traffic throughout the establishment period.
- B. The establishment period shall have a duration of thirty (30) days.
- C. Irrigation:
 - 1. Contractor shall submit for approval a proposed "Tree and Shrub Establishment Irrigation Schedule." This schedule shall include Zone designation, days per week, cycles per day and cycle run time. Include targeted daily and weekly precipitation rates for each zone based on current climatic conditions.
 - 2. Water shall be applied to moisten the root ball and the soil adjacent to the root ball. Avoid overwatering and creating areas of standing water.
 - 3. Irrigation shall be monitored daily to identify areas receiving too much or too little precipitation.
 - 4. Trees in Turf Areas: If sod/seed irrigation is not adequate to provide for trees, hand watering shall occur to moisten the root ball and soil adjacent to the root ball.
- D. Weed Control:
 - 1. Control growth of weeds throughout establishment period. Hand pull weeds weekly.
 - 2. Chemical herbicide shall not be used in shrub areas during the establishment period.
- E. Upon completion of the establishment period the maintenance period shall begin.

3.5 TREE AND SHRUB MAINTENANCE

- A. Maintenance shall be according to the following standards. All areas shall be weeded and cultivated at intervals of not more than seven (7) days. Watering, trash and debris removal, fertilization, spraying and pest control, as required, shall be included in the maintenance period. Cleaning of street gutters and sidewalks shall be included. The Contractor shall be responsible for maintaining adequate protection of the area. Damaged areas shall be repaired at the Contractor's expense.
- B. The maintenance period shall have a minimum duration of sixty (60) days and continue until the date of Substantial Completion.
- C. Irrigation:
 - 1. Contractor shall submit for approval a proposed "Tree and Shrub Maintenance Irrigation Schedule." This schedule shall include Zone designation, days per week, cycles per day and cycle run time. Include targeted daily and weekly precipitation rates for each zone based on current, seasonal climatic conditions.
 - 2. Water shall be applied to moisten the soil appropriately for the current, seasonal climatic conditions. Avoid overwatering and creating areas of standing water.
 - 3. Irrigation shall be monitored weekly to identify areas receiving too much or too little precipitation.
 - 4. Trees in Turf Areas: If sod/seed irrigation is not adequate to provide for trees, hand watering shall occur to moisten the root ball and soil adjacent to the root ball.

- D. Weed Control:
 - 1. Control growth of weeds throughout maintenance period. Inspect turf areas every seven (7) days for weed growth.
 - 2. Utilize weed killer and hand pulling to control weeds in all planter and turf areas.
- E. Fertilization:
 - 1. One application of Maintenance Fertilizer shall be applied during the maintenance period. Application shall occur approximately sixty (60) days after installation of plant material and prior to the date of Substantial Completion.
 - 2. Maintenance fertilizer shall be applied at the following rate per manufacturer's written instructions for root feeding:
 - a. Dilute 40:1 with water prior to use.
 - b. Trees: Apply 5 gallons of diluted product per inch of trunk diameter.
 - c. Shrubs: Apply 3 gallons of diluted product per shrub.
 - 3. Apply Liquid Humic Acid / water mixture to root ball and area directly adjacent to root ball.
- F. Insect and Disease Control: Maintain a reasonable level of control with approved materials.
- G. Plant material replacement: Replace dead, dying and missing plants with plants of a size, condition and variety to match plans and as acceptable to the Architect at Contractor's expense under the provisions Division 01 Specifications.
- H. Continuously maintain the entire project area during the progress of work until the date of Substantial Completion.

3.6 FIELD QUALITY CONTROL

- A. Perform field inspections under provisions of Division 01 Specifications.
- B. Coordinate field inspections with Specification Section 32 84 00 and 32 92 00.
- C. Contractor Performed Inspections: The contractor shall perform the following inspections and provide written confirmation of completed and successful installation to the Architect.
 - 1. Tree Pit Backfill Planting Mix and Tree Placement: Provide required photographs and product receipts demonstrating successful placement and blending of specified soil amendments including the placement of trees and the backfill of the tree planting pit.
 - 2. Shrub Pit Backfill Planting Mix and Shrub Placement: Provide required photographs and product receipts demonstrating successful placement and blending of specified soil amendments including the placement of shrubs and the backfill of the shrub planting pit.
 - 3. Tree and Shrub Maintenance - Fertilization: Provide required photographs and product receipts demonstrating successful placement of specified maintenance fertilizer.
- D. Landscape Architect Performed Inspections:
 - 1. Trees and Shrubs - Material and Installation: The Contractor shall schedule one site visit with the Landscape Architect to inspect representative plant material and the installation of trees and shrubs.

3.7 CLEANING

- A. After all planting, establishment and maintenance operations have been completed; remove all trash, excess soil or rubbish from the property. All scars, ruts or other marks in the ground caused by this work shall be repaired and the ground left in a neat and orderly condition throughout the site. Contractor shall pick up all trash resulting from this work no less frequently than each day before leaving the site. All trash shall be removed completely from the site. The Contractor shall leave the site area broom-clean and shall wash down all paved areas within the Contract area, leaving the premises in a clean condition acceptable to the Architect and Construction Manager.

3.8 PROTECTION

- A. Protect planter areas with warning signs until date of Substantial Completion.

END OF SECTION

NOTES - REFERENCE NOTES

- 1.01 COORDINATE WITH STRUCTURAL DRAWINGS.
- 1.05 COORDINATE WITH CIVIL AND LANDSCAPE DRAWINGS.
- 1.80 FIRE SPRINKLER RISER INSIDE SIGNAGE 2" HIGH LETTERING WITH 3/8" STROKE
- 1.81 1'-0" TALL ADDRESS NUMBERS. FINISH TO BE MATTE BLACK.
- 1.82 4" TALL WHITE VINYL ADDRESS NUMBERS
- 4.03 CMU BLOCK LAYOUT. RE: DETAIL A3 AND D3/A4 S2
- 4.12 BRICK OFFSET TO MATCH ADJACENT BRICK WALLS. RE: ENLARGED ELEVATION D5/A4.03 FOR EXTENTS OF BRICK OFFSET WITHIN ALLOWANCE.
- 5.16 FINISH: GALVANIZED STEEL
- 5.37 TENSION ROD TO MATCH MATTE BLACK FINISH.
- 7.34 OVERFLOW OPENING
- 8.01 DOOR AS SCHEDULED. RE: SHEET A7.01
- 23.04 LOUVER. COORDINATE WITH MECHANICAL DRAWINGS.
- 23.05 DIESEL EXHAUST SYSTEM PENETRATION. COORDINATE WITH MECHANICAL AND STRUCTURAL DRAWINGS.
- 23.07 GAS METER. COORDINATE WITH MECHANICAL DRAWINGS.
- 26.05 EXTERIOR LIGHTING. COORDINATE WITH ELECTRICAL DRAWINGS. LIGHT FIXTURE TO BE COORDINATED BETWEEN STANDING SEAM METAL PANEL RIBS. TYP.
- 26.12 LIGHT FIXTURE. COORDINATE WITH ELECTRICAL DRAWINGS.
- 28.01 SECURITY CAMERA. COORDINATE WITH TECHNOLOGY DRAWINGS.
- 32.15 RE: CIVIL DETAIL ON C5.10. DOWNSPOUT TO DISCHARGE BELOW GRADE.
- 32.17 RE: CIVIL DETAIL ON C5.10. DOWNSPOUT TO DISCHARGE ABOVE GRADE.



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RICE/fergusMILLER

GENERAL NOTES - BUILDING ELEVATIONS

- 1. RE: FLOOR PLANS FOR EXTERIOR DOOR AND WINDOW TYPES.
- 2. RE: WALL SECTIONS FOR ADDITIONAL CHAMFER BLOCK AND BANDING LOCATIONS

LEGEND - BUILDING ELEVATIONS

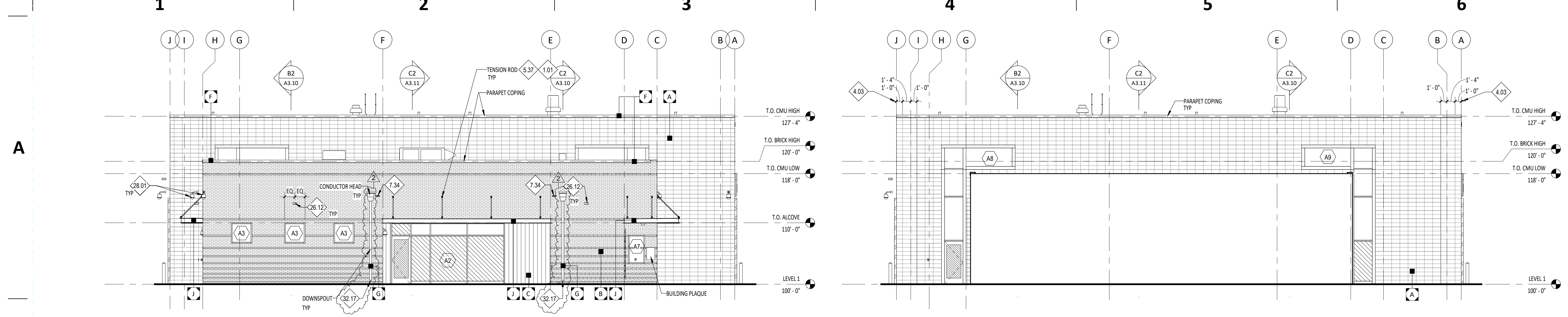
- A** HATCH PATTERN INDICATES AREAS OF STACKED BOND - PRECISION-FACE CMU. COORDINATE WITH WALL SECTIONS, BUILDING SECTIONS, BUILDING ELEVATIONS AND DETAILS FOR EXACT COARSING. COLOR: 615 SM PREMIUM COLOR. RE: DIVISION 04 - MASONRY IN THE SPECIFICATIONS.
- B** HATCH PATTERN INDICATES AREAS OF BRICK. COORDINATE WITH WALL SECTIONS FOR EXACT COARSING. COLOR: 18427 PLUM GRAY - SUMMIT BRICK. RE: DIVISION 04 - MASONRY IN THE SPECIFICATIONS.
- C** HATCH PATTERN INDICATES AREAS OF MATTE BLACK STANDING SEAM METAL PANEL. COLOR: MATTE BLACK - STANDARD COLOR. RE: DIVISION 05 - METALS IN THE SPECIFICATIONS.
- D** HATCH PATTERN INDICATES AREAS OF MATTE BLACK STEEL PLATE. RE: DIVISION 05 - METALS IN THE SPECIFICATIONS.
- E** HATCH PATTERN INDICATES AREAS OF WOOD SOFFIT PANEL. RE: DIVISION 06 - WOOD PLASTIC COMPOSITES IN THE SPECIFICATIONS.
- F** TAG INDICATES METAL COPINGS. FINISH TO BE MATTE BLACK. RE: SPECIFICATIONS 07 62 00.
- G** TAG INDICATES DOWNSPOUTS, PARAPET SCUPPERS, AND CONDUCTOR HEADS. FINISH TO BE MATTE BLACK. RE: SPECIFICATIONS 07 62 00.
- H** TAG INDICATES METAL FABRICATION. FINISH RED TO MATCH APPARATUS BAY DOORS. RE: SPECIFICATIONS 05 55 00.
- I** TAG INDICATES BENT METAL FRAME. FINISH TO BE MATTE BLACK. RE: SPECIFICATIONS 07 62 00.
- J** TAG INDICATES MATTE BLACK METAL CHANNEL CANOPY. RE: DIVISION 5 - METALS IN THE SPECIFICATIONS.

Project: TWIN FALLS FIRE STATION 3
1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Project No: 20-042
Date: 03.14.2022
Checked By: RC, MS
Drawn By: KD

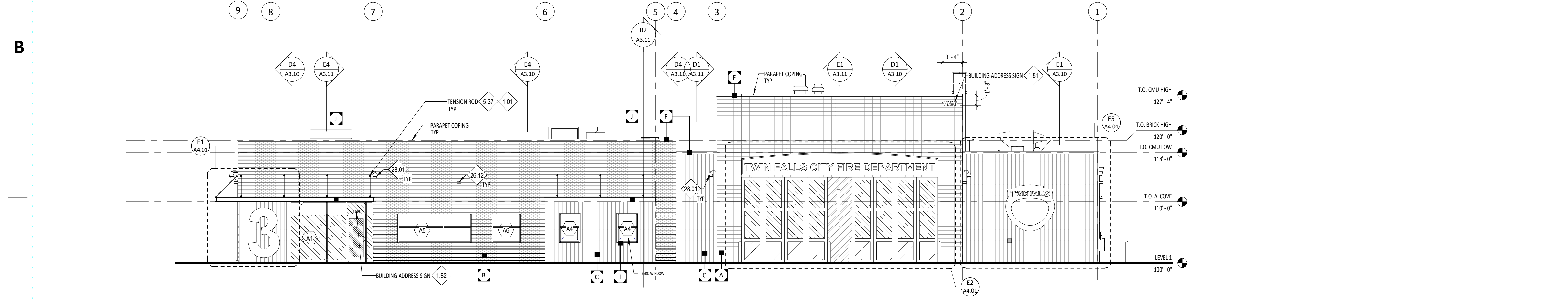
BUILDING ELEVATIONS

Sheet No:
A3.01

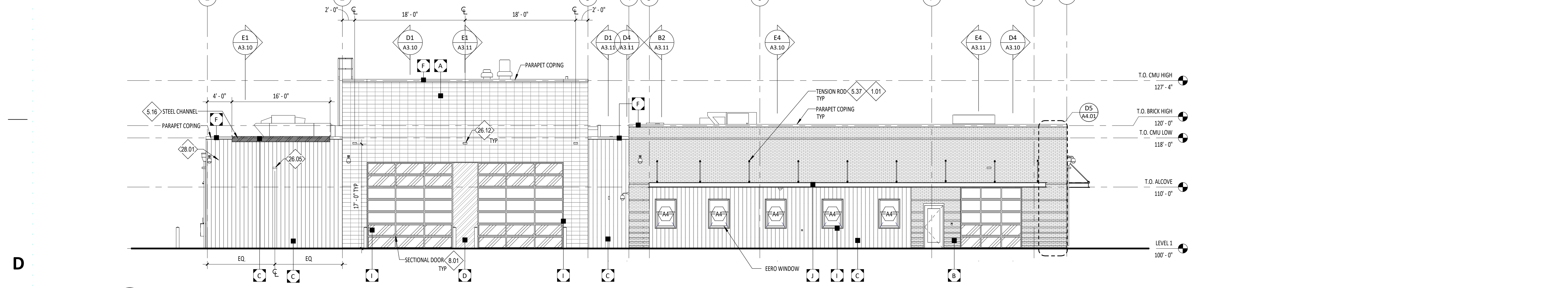


B1 EXTERIOR ELEVATION - NORTH
A3.01 1/8" = 1'-0"

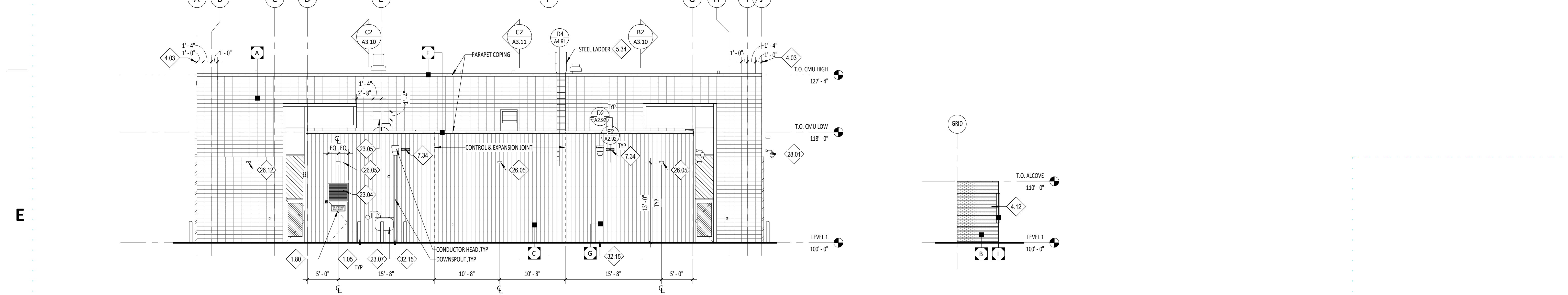
B4 EXTERIOR ELEVATION - NORTH B
A3.01 1/8" = 1'-0"



C1 EXTERIOR ELEVATION - WEST
A3.01 1/8" = 1'-0"

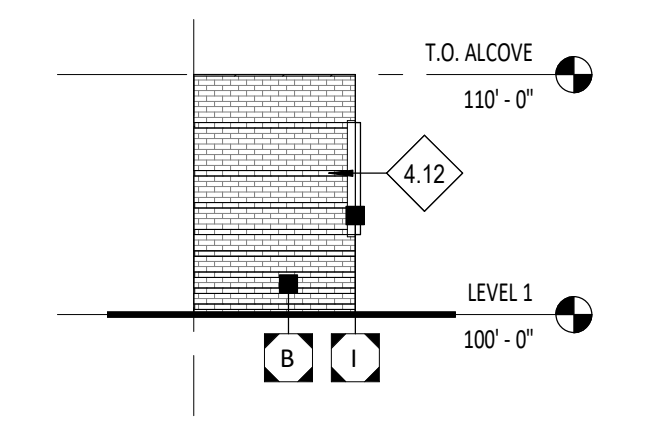


D1 EXTERIOR ELEVATION - EAST
A3.01 1/8" = 1'-0"

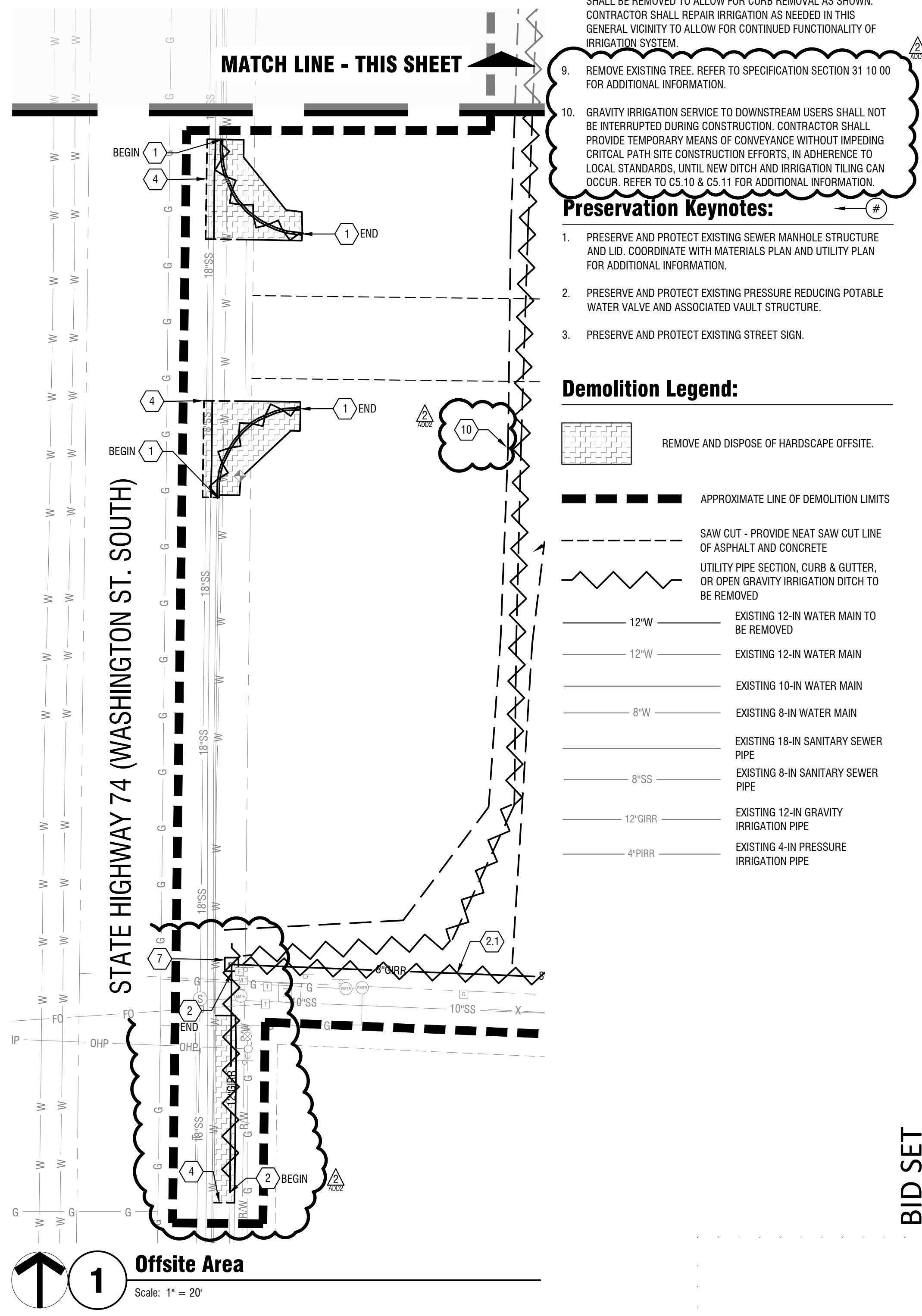
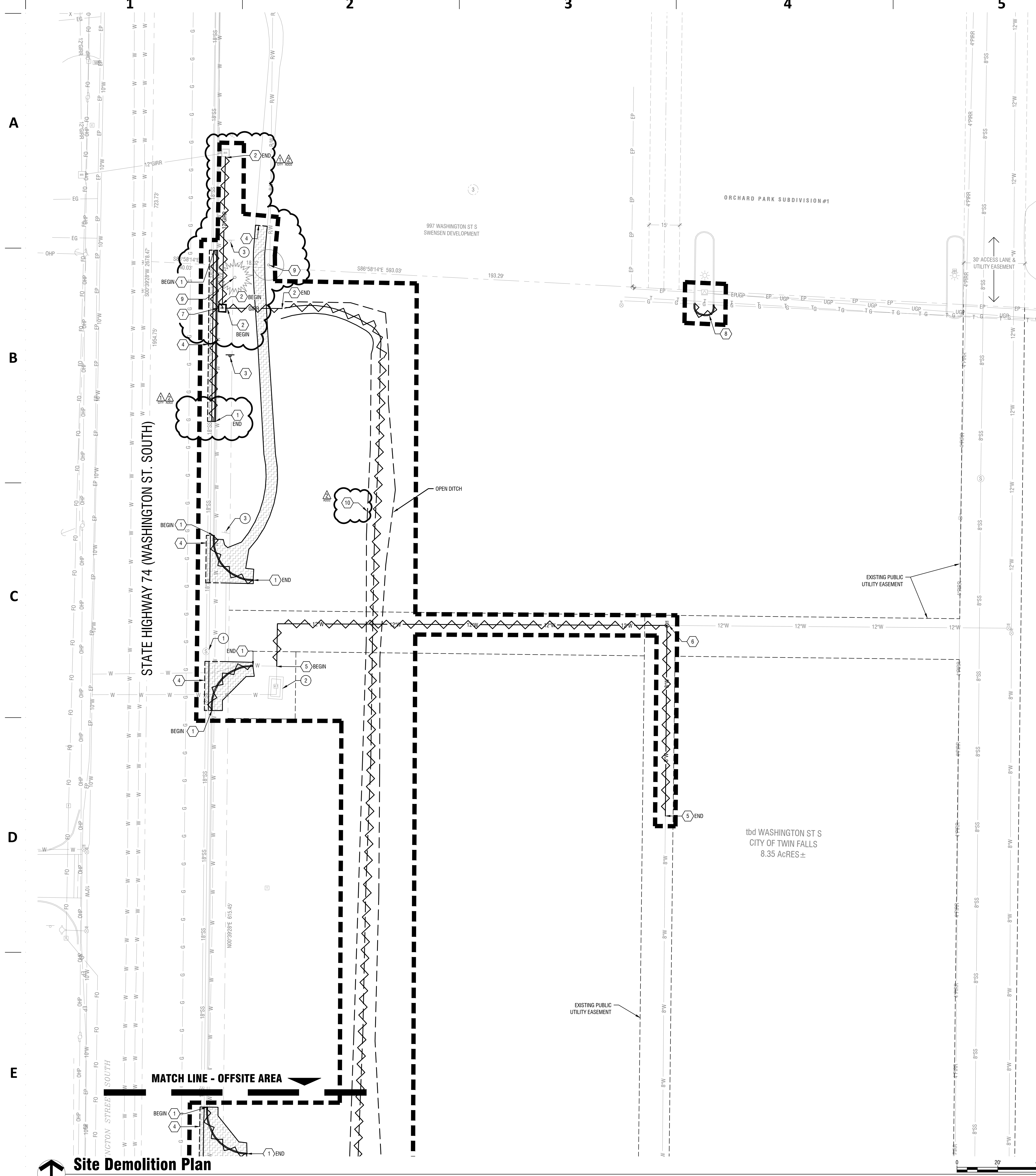


E1 EXTERIOR ELEVATION - SOUTH
A3.01 1/8" = 1'-0"

E3 ELEVATION ALCOVE - TYP
A3.01 1/8" = 1'-0"



BID SET



Sheet Notes:

- A. IN THE EVENT OF A DISCREPANCY, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
- B. THE CONTRACTOR SHALL ENSURE THAT ALL DEMOLITION, REMOVAL, ABANDONMENT, ABATEMENT AND CLEARING AND SITE PREPARATION NECESSARY FOR PROPOSED IMPROVEMENTS ARE COMPLETED WHETHER SHOWN ON THESE PLANS OR NOT. THE CONTRACTOR SHALL REMOVE OR ABANDON ALL ITEMS INCIDENTAL TO THE ITEMS INDICATED.
- C. UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS HAVE BEEN LOCATED AS MARKED IN THE FIELD BY DIGLINE AND APPLICABLE UTILITY COMPANIES, AND BASED ON FACILITY MAPS PROVIDED BY THE OWNER. THE SURVEYOR HAS NOT PHYSICALLY LOCATED UNDERGROUND UTILITIES. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES WITHIN THE PROJECT AREA.
- D. RETAIN AND PROTECT EXISTING IMPROVEMENTS OUTSIDE WORK LIMIT BOUNDARY UNLESS MARKED FOR DEMOLITION. RETAIN AND PROTECT EXISTING UTILITIES AND ASSOCIATED STRUCTURES UNLESS MARKED FOR DEMOLITION.
- E. PRESERVE AND PROTECT ALL SURVEYING MONUMENTS AND PROPERTY CORNERS. COORDINATE WITH PROJECT SURVEYOR TO THE AND REPLACE ALL MONUMENTS WHICH MUST BE OBLITERATED.
- F. CONTRACTORS SHALL BE RESPONSIBLE TO PROVIDE CONTINUOUS SEWER, WATER, POWER, AND COMMUNICATION SERVICE TO ALL EXISTING BUILDINGS DURING THE COURSE OF CONSTRUCTION.
- G. DEMOLITION AND CONSTRUCTION SHALL BE COORDINATED AS TO NOT INTERRUPT THE USE OF EXISTING FACILITIES. IF AN INTERRUPTION IS REQUIRED, THE CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE OWNER'S REPRESENTATIVE.

Demolition Keynotes:

- 1. REMOVE AND DISPOSE OF EXISTING CONCRETE CURB AND GUTTER.
- 2. REMOVE AND DISPOSE OF EXISTING GRAVITY IRRIGATION PIPE AT GROUND SURFACE. CONTRACTOR SHALL DETERMINE EXTENTS OF SURFACE PIPING AND CONFIRM REMOVAL WITH OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- 3. REMOVE AND RELOCATE EXISTING SIGNAGE, COORDINATE WITH MATERIALS PLAN FOR ADDITIONAL INFORMATION.
- 4. SAWCUT LINE - PROVIDE NEAT SAW CUT LINE OF ASPHALT AND CONCRETE.
- 5. REMOVE AND DISPOSE OF EXISTING WATER MAIN PIPING AT APPROXIMATE LIMITS SHOWN. COORDINATE WITH SITE UTILITY PLAN FOR ADDITIONAL INFORMATION.
- 6. REMOVE AND DISPOSE OF EXISTING WATER STRUCTURE.
- 7. REMOVE AND DISPOSE OF EXISTING GRAVITY IRRIGATION STRUCTURE. SEE UTILITY PLANS, SHEET C5.00 FOR REINSTALLATION DETAILS.
- 8. REMOVE EXISTING CURB NOSE AT PLANTER ISLAND TO ACCOMMODATE FENCE INSTALLATION. CURB SHALL BE TRIMMED 2-FT FROM PROPOSED FACE OF CURB. SHRUB AND EXISTING LANDSCAPE SHALL BE REMOVED TO ALLOW FOR CURB REMOVAL AS SHOWN. CONTRACTOR SHALL REPAIR IRRIGATION AS NEEDED IN THIS GENERAL VICINITY TO ALLOW FOR CONTINUED FUNCTIONALITY OF IRRIGATION SYSTEM.
- 9. REMOVE EXISTING TREE. REFER TO SPECIFICATION SECTION 31 10 00 FOR ADDITIONAL INFORMATION.
- 10. GRAVITY IRRIGATION SERVICE TO DOWNSTREAM USERS SHALL NOT BE INTERRUPTED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY MEANS OF CONVEYANCE WITHOUT IMPEDING CRITICAL PATH SITE CONSTRUCTION EFFORTS. IN ADHERENCE TO LOCAL STANDARDS, UNTIL NEW DITCH AND IRRIGATION TILING CAN OCCUR. REFER TO C5.10 & C5.11 FOR ADDITIONAL INFORMATION.

Preservation Keynotes:

- 1. PRESERVE AND PROTECT EXISTING SEWER MANHOLE STRUCTURE AND LID. COORDINATE WITH MATERIALS PLAN AND UTILITY PLAN FOR ADDITIONAL INFORMATION.
- 2. PRESERVE AND PROTECT EXISTING PRESSURE REDUCING POTABLE WATER VALVE AND ASSOCIATED VAULT STRUCTURE.
- 3. PRESERVE AND PROTECT EXISTING STREET SIGN.

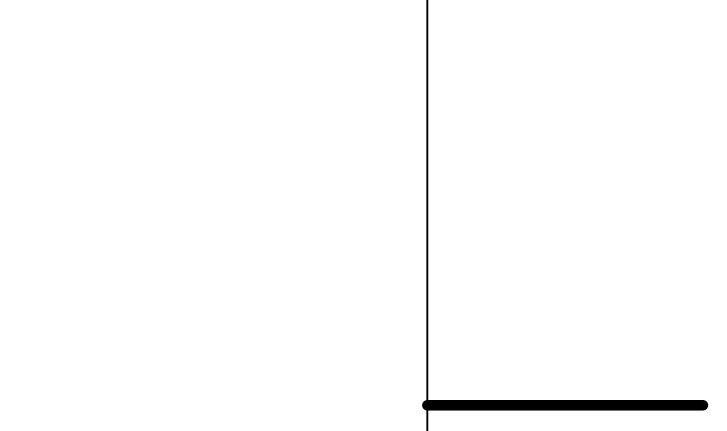
Demolition Legend:

- REMOVE AND DISPOSE OF HARDSCAPE OFFSITE.
- APPROXIMATE LINE OF DEMOLITION LIMITS
- SAW CUT - PROVIDE NEAT SAW CUT LINE OF ASPHALT AND CONCRETE
- UTILITY PIPE SECTION, CURB & GUTTER, OR OPEN GRAVITY IRRIGATION DITCH TO BE REMOVED
- EXISTING 12-IN WATER MAIN TO BE REMOVED
- EXISTING 12-IN WATER MAIN
- EXISTING 10-IN WATER MAIN
- EXISTING 8-IN WATER MAIN
- EXISTING 18-IN SANITARY SEWER PIPE
- EXISTING 8-IN SANITARY SEWER PIPE
- EXISTING 12-IN GRAVITY IRRIGATION PIPE
- EXISTING 4-IN PRESSURE IRRIGATION PIPE

Sheet Notes:

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STAMP:
PROFESSIONAL ENGINEER
LICENSED
13437
STATE OF IDAHO
ERIC CROSWIN
05/19/2022



Project:
TWIN FALLS FIRE STATION 3
1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Revisions:

1	CITY COMMENTS	4/11/2022 & 5/19/2022
2	ADDENDUM 2	5/19/2022

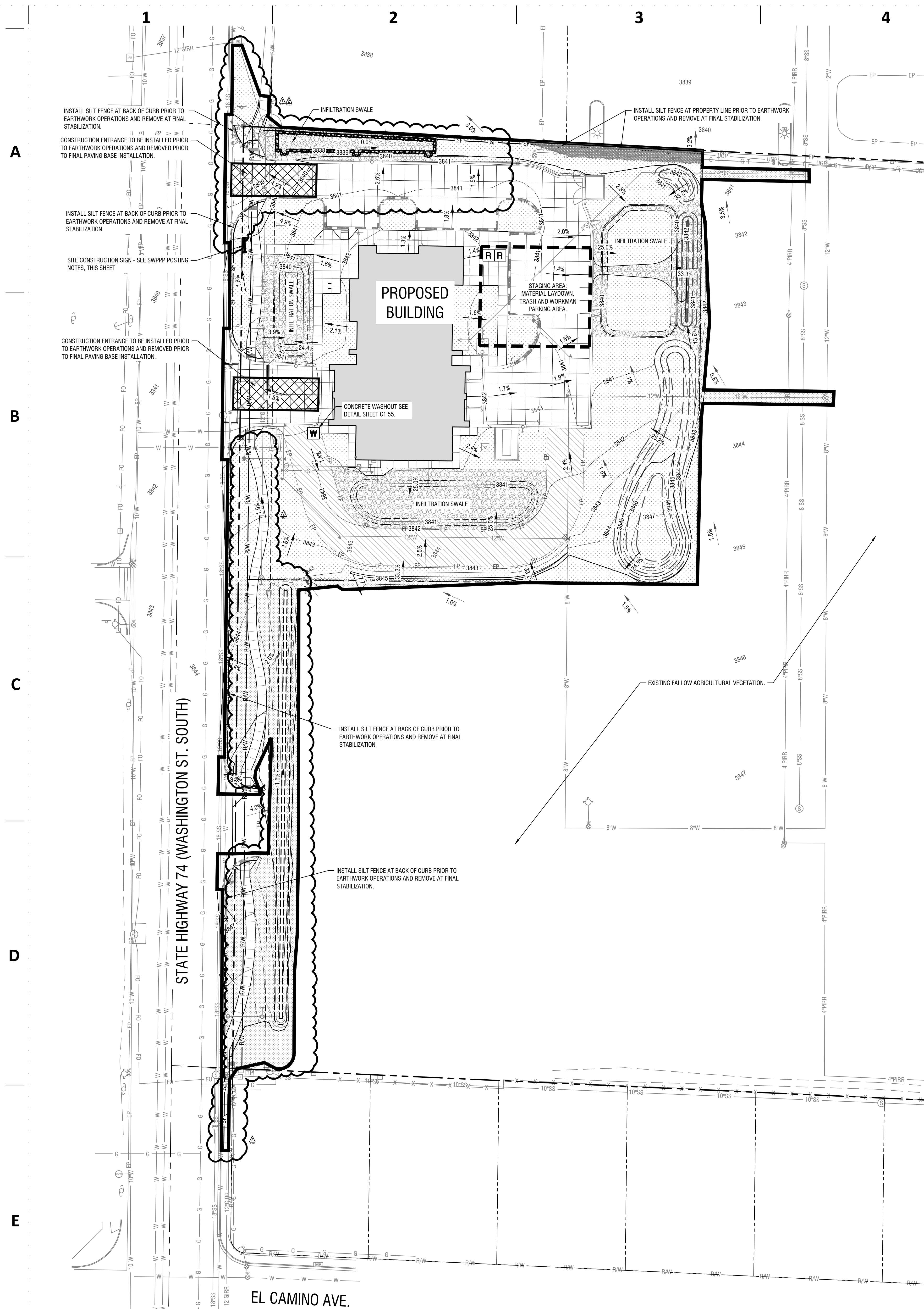
Project No: 20-042
Date: 03/14/2022
Checked By: EC/BS
Drawn By: CR/L

SITE DEMOLITION PLAN

BID SET

Sheet No:
C1.00

Site Demolition Plan
Horizontal Scale: 1" = 20'



SWPPP General Notes:

- ALL BMP NUMBERS ARE REFERENCED FROM IDAHO DEQ BEST MANAGEMENT PRACTICES.
- ALL STORM WATER WILL BE CONTAINED ON SITE.
- ALL BMP'S SHALL BE INSPECTED AT A MINIMUM OF ONCE EVERY 7 DAYS -OR- ONCE EVERY 14 DAYS AND WITHIN 24 HOURS OF A STORM EVENT PRODUCING 0.25 INCHES OR GREATER. INSPECTION FREQUENCY MAY BE REDUCED TO ONCE EVERY MONTH IF:
 - THE ENTIRE SITE IS TEMPORARILY STABILIZED, OR
 - RUNOFF IS UNLIKELY DUE TO WINTER CONDITIONS, OR
 - CONSTRUCTION IS OCCURRING DURING SEASONAL ARID PERIODS (MAY THROUGH SEPTEMBER) IN ARID AREAS AND SEMI-ARID AREAS.
- DEWATERING IS NOT EXPECTED FOR THIS SITE. ONSITE SWPPP CONTRACTOR IS RESPONSIBLE FOR ALL NON-STORMWATER MANAGEMENT.
- STREET SWEEPING WILL BE IMPLEMENTED ON AN AS-NEEDED BASIS AS DETERMINED BY THE SWPPP RESPONSIBLE PERSON.
- PROVIDE WASTE CONTAINERS FOR BUILDING MATERIALS IN WASTE STORAGE CONTAINMENT AREA. WASTE DISPOSAL DUMPSTERS MUST HAVE LIDS OR PROVIDE COVER OR A SIMILARLY EFFECTIVE MEANS TO MINIMIZE THE DISCHARGE OF POLLUTANTS. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND AT THE END OF THE BUSINESS DAY. DISPOSE AT A FREQUENCY ACCORDING TO CONTAINER SIZE.
- LOCATE ALL PORTABLE RESTROOMS AS FAR FROM PUBLIC AND PRIVATE STORM DRAIN SYSTEMS AS POSSIBLE. ANCHOR TO PREVENT VANDALISM.
- SLURRY AND CUTTINGS FROM SANICUTTING OF CONCRETE OR ASPHALT SHALL BE VACUUMED DURING CUTTING AND SURFACING OPERATIONS. SLURRY AND CUTTINGS SHALL NOT REMAIN ON PERMANENT CONCRETE OR ASPHALT PAVEMENT OVERNIGHT. SLURRY AND CUTTINGS SHALL NOT DRAIN TO ANY NATURAL OR CONSTRUCTED DRAINAGE CONVEYANCE. COLLECTED SLURRY AND CUTTINGS SHALL BE DISPOSED OF IN A MANNER THAT DOES NOT VIOLATE GROUNDWATER OR SURFACE WATER QUALITY STANDARDS.
- ALL EXCESS MATERIALS SHALL BE HAULED OFF SITE AND DISPOSED OF AT AN APPROVED LOCATION. EXCESS MATERIAL MAY BE TEMPORARILY STORED ON SITE (IF APPROVED BY THE OWNER) AT A PRE-APPROVED LOCATION. IF MATERIAL IS STOCKPILED FOR MORE THAN 14 DAYS STOCKPILE IS TO BE STABILIZED PER BMP #44.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE ISPPWC.
- SEE LANDSCAPE AND MATERIALS PLANS FOR INFORMATION CONCERNING FINAL SOIL STABILIZATION MEASURES.
- ALL GRADING, UTILITY, AND ROADWAY CONSTRUCTION SHALL BE LIMITED TO THE HOURS BETWEEN 7:00 A.M. AND 9:00 P.M. MONDAY THROUGH FRIDAY AND 8:00 A.M. TO 9:00 P.M. SATURDAY AND SUNDAY, UNLESS OTHERWISE APPROVED BY THE CONSTRUCTION MANAGER.
- ANY MODIFICATIONS TO THIS PLAN REQUIRE APPROVAL OF THE DESIGNER OR THE ONSITE RESPONSIBLE PERSON.
- TOTAL DISTURBED AREA FOR THIS ON-SITE WORK IS APPROXIMATELY 2.47 ACRES.
- UPON CONTRACT APPROVAL BY THE CONTRACTOR, IT IS RECOGNIZED THAT THE CONTRACTOR HAS REVIEWED THE PLAN DRAWINGS AND THE CONTRACTOR AGREES TO ABIDE BY THE REQUIREMENTS AND CONDITIONS CONTAINED HEREIN.

Soil Stabilization

- IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.
- LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- EXCEPT AS PROVIDED BELOW, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
 - WHERE STABILIZATION BY THE 14th DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICAL.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.

NOTE: ONE OF THE FOLLOWING TEMPORARY SOIL STABILIZATION PRACTICES SHALL BE IMPLEMENTED ON ALL DISTURBED AREAS AND/OR WHERE SHOWN ON PLAN, UNLESS CONDITIONS AS LISTED ABOVE DICTATE OTHERWISE.

- MULCHING (BMP 32) - APRIL THROUGH SEPTEMBER. STRAW, GRASS, COMPOST, WOOD CHIPS OR WOOD FIBERS TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION, AND/OR
- GEOTEXTILE (BMP 53) - APPLY NONBIODEGRADABLE SYNTHETIC FABRIC TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION, AND/OR
- MATTING (BMP 54) - APPLY BIODEGRADABLE WOVEN OR JUTE FIBER MAT TO DISTURBED AREAS TO PREVENT EROSION. SEE APPENDIX F OF THE ESC/SWPPP NARRATIVE FOR A COMPLETE DESCRIPTION.

PERMANENT SOIL STABILIZATION BMP'S:
LANDSCAPING (BMP 32) - COORDINATE WITH THE APPROVED LANDSCAPE PLAN FOR LOCATIONS AND TIMING.

Hydro-seeding Notes :

- GENERAL:
- MIX SPECIFIED SEED AND ORGANIC SOIL AMENDMENT IN WATER PER MANUFACTURER'S RECOMMENDATIONS. APPLY SEEDED SLURRY EVENLY IN TWO INTERSECTION DIRECTIONS. DO NOT HYDROSEED AREA IN EXCESS OF THAT WHICH CAN BE MULCHED ON SAME DAY. KEEP OFF ROADS, WALKS, STRUCTURES AND AREAS NOT TO BE SEED. CLEAN UP THESE AREAS.
 - ADD FUNGICIDE AT RATES RECOMMENDED BY MANUFACTURER ON INSTALLATIONS MADE BETWEEN 1ST OF APRIL AND 30 SEPTEMBER.
 - AFTER HYDROSEED, TRACK IN SEED USING A CLEATED CRAWLER WITH TRACK MARKS PERPENDICULAR TO THE SLOPE. AFTER TRACKED, MULCH SLOPE WITH 2000 LBS. PER ACRE OF FERTILE-FIBER MULCH MATERIAL AND 80 LBS. PER ACRE OF TACKIFIER.
 - IMMEDIATELY FOLLOWING MULCH AND TACKIFIER, COVER SEEDS SLOPES GREATER THAN 2.5:1 WITH EROSION CONTROL BLANKETS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - IMMEDIATELY RESEED AREAS WHICH SHOW BARE SPOTS. MINIMUM ACCEPTABLE PLANT COVERAGE IS 80 PERCENT AFTER ONE GROWING SEASON. PROTECT SEEDS AREAS WITH WARNING SIGNS DURING MAINTENANCE PERIOD. THE SEED WILL REQUIRE APPROXIMATELY NINETY (90) DAYS OF FAVORABLE GROWING CONDITIONS TO GERMINATE AND BECOME ESTABLISHED FOR SUCCESSFUL SURVIVAL WITH NORMAL SURVIVAL MINIMAL SUMMER PRECIPITATION.
 - THE OPTIMAL SEEDING TIME SHALL BE AFTER MID-OCTOBER. THIS PLANTING TIME PROVIDES THE OPTIMUM WEATHER CONDITIONS FOR SEED GERMINATION AND SEEDLING SURVIVAL RATE.
 - THIS PROJECT WILL RELY PRIMARILY UPON NATURAL PRECIPITATION FOR SEED GERMINATION AND ESTABLISHMENT. THE NATURAL PRECIPITATION AT THE SITE PROVIDES MARGINAL MOISTURE FOR REVEGETATION EFFORTS. IF DEEMED NECESSARY, CONTRACTOR WILL PROVIDE SUPPLEMENTAL WATER TO ENSURE PROPER SEED GERMINATION DURING LOW PRECIPITATION TIMES OF YEAR. CONTRACTORS SHOULD ATTEMPT TO APPLY SEED IN CONCERT WITH APPROPRIATE WEATHER PATTERNS TO ENSURE SEEDING SUCCESS. IF DRY WEATHER PERSISTS FOLLOWING SEED APPLICATION TEMPORARY IRRIGATION IS RECOMMENDED TO ENSURE SEED ESTABLISHMENT.

SEED:

SPECIES	RATE IN LBS/ACRE
"AJAXONE" BLUEBUNCH WHEATGRASS	8
"COWAR" SHEEP FESCUE	8
SANDBERG'S BLUEGRASS	6.5
THICKSPIKE WHEATGRASS	5
"EAGLE" WESTERN YARROW	1.75
SMALL BURNETT	3.25
IDAHO FESCUE	1.5
SAND DROPSSEED	1.5
ANNUAL RYE	1.5
LEWIS BLUEFLAX	1.5
RABBITBRUSH	0.75
SAGEBRUSH	0.75
TOTAL	40 LBS PURE LIVE SEED

- APPLY AT A RATE OF 40 LBS PER ACRE.
 - SEED SHALL BE PROVIDED FROM AND MIXED BY A CERTIFIED DEALER. SEED MIXTURE SHALL BE LABELED WITH MANUFACTURER'S GUARANTEED ANALYSIS, GERMINATION RATE AND PURITY RATE.
- HYDRO-MULCH:
- KIWI FERTILE-FIBER FROM "QUATTRO ENVIRONMENTAL", A COMPOSTED POULTRY BASED MULCH MATERIAL FREE OF GROWTH OR GERMINATION INHIBITING INGREDIENTS. APPLY AT THE RATE OF 2000 LBS. PER ACRE.
 - FIBER SHALL DISPERSE RAPIDLY IN WATER FORMING HOMOGENEOUS SLURRY AND REMAINING IN SUCH STATE WHEN AGITATED IN HYDRO-MULCHING EQUIPMENT.

- BINDERS:
- TACKIFIER TO BIND SOIL AND MULCH TOGETHER TO PREVENT EROSION.
 - MULCH TACKIFIER SOIL STABILIZER - ECOLOGY CONTROLS, M-BINDER, TACKIFIER APPLIED AT THE RATE OF 80 LBS PER ACRE.
 - GRANITE SEED
 - 1697 WEST 2100 NORTH
 - P.O. BOX 177
 - LEN, UTAH 84043
 - 1-801-788-4422
 - (OR APPROVED EQUAL)
 - ALWAYS ADD BINDER AT RATES RECOMMENDED ON SLOPES 5:1 AND OVER.
- FUNGICIDE:
- ACCEPTABLE PRODUCTS:
 - SANDL BY NOR-AM CHEMICAL CO.
 - EQUAL AS APPROVED BY ARCHITECT BEFORE USE.
- SOIL CONDITIONER:
- KIWI POWER FROM "QUATTRO ENVIRONMENTAL" (OR APPROVED EQUAL) - 5 GALLONS PER ACRE.

Contact Information

OWNER: CITY OF TWIN FALLS
503 MAIN AVE. SOUTH
TWIN FALLS, ID 83301
CONTACT: MAND THOMPSON
PH: 208.735.7237

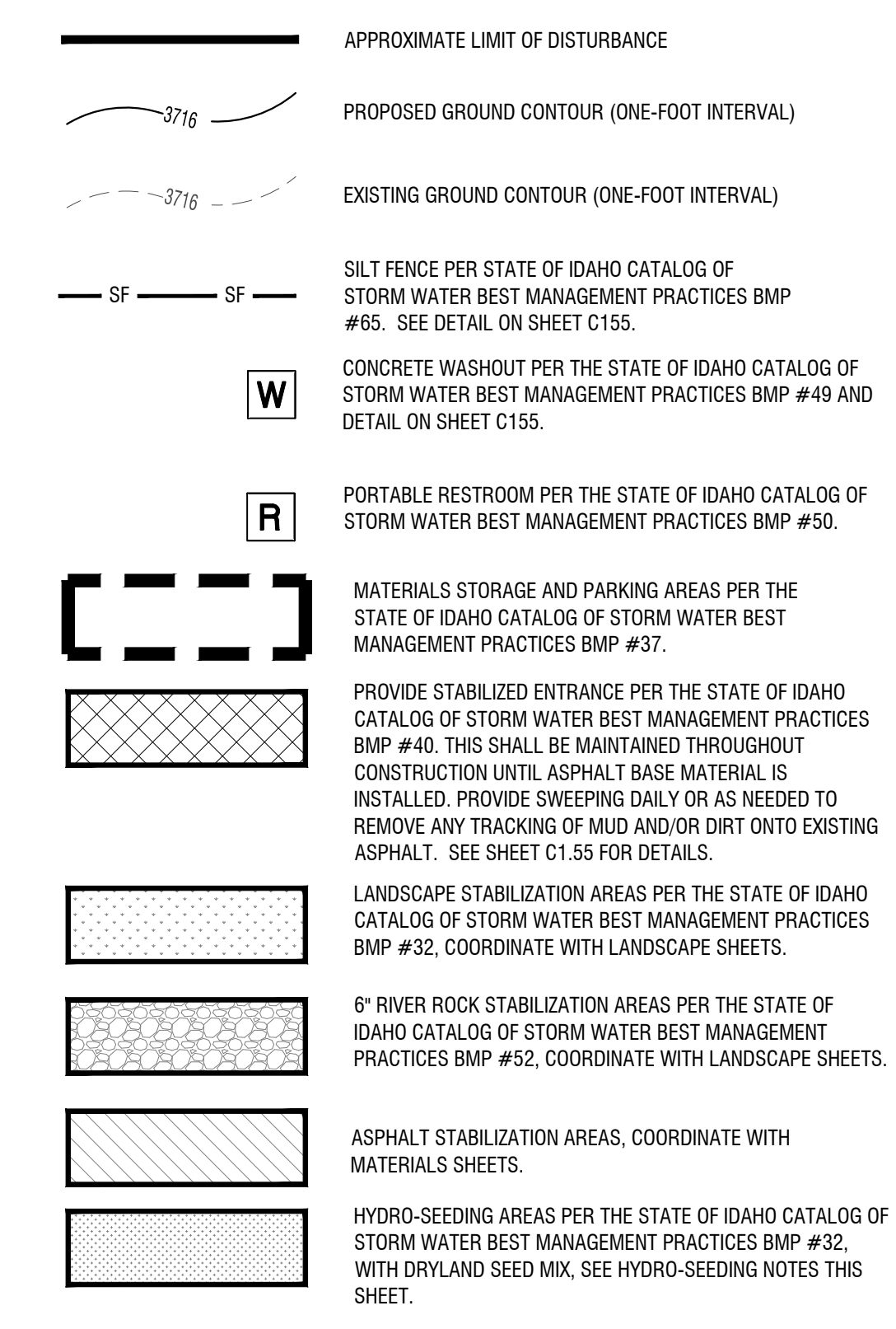
CONTRACTOR: STARR CORPORATION
2955 E. 3600 N.
TWIN FALLS, ID 83301
CONTACT: MICHAEL ARRINGTON
PH: 208.735.5695
EMAIL: michael@starrcorporation.com

ONSITE SWPPP COORDINATOR: TO BE DETERMINED

PLAN PREPARER: THE LAND GROUP
462 E. SHORE DR., SUITE 100
EAGLE, ID 83616
ROGER COLLINS
PHONE: 208.939.4041
roger@thelandgroupinc.com

ENGINEER: THE LAND GROUP, INC.
462 E. SHORE DR., SUITE 100
EAGLE, ID 83616
ERIC CRONIN, PE
PHONE: 208.939.4041

ESC/SWPPP Legend



SWPPP Posting Requirements:

- THE CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR APPLYING FOR OBTAINING THE EPA NOTICE OF INTENT (NOI).
- A COMPLETE COPY OF THE SWPPP (INCLUDING A COPY OF THE CONSTRUCTION GENERAL PERMIT AND COMPLETED INSPECTION FORMS), NOI, AND ACKNOWLEDGEMENT LETTER FROM EPA MUST BE RETAINED AT THE CONSTRUCTION SITE (OR OTHER LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS) AND MADE AVAILABLE FOR REVIEW BY EPA, A STATE, OR OTHER LOCAL APPROVING AGENCY.
- A SIGN OR OTHER NOTICE MUST BE POSTED IN A CONSPICUOUS LOCATION NEAR THE CONSTRUCTION ENTRANCE. THE SIGN OR OTHER NOTICE MUST CONTAIN THE FOLLOWING INFORMATION:
 - AT A MINIMUM, THE NOTICE MUST INCLUDE THE NPDES PERMIT TRACKING NUMBER AND A CONTACT NAME AND PHONE NUMBER FOR OBTAINING ADDITIONAL PROJECT INFORMATION AS WELL AS THE ADDRESS OF THE SITE, THE PERMIT HOLDER'S NAME AND THE PHONE NUMBER OF THE STORMWATER POLLUTION HOTLINE (208.395.8888) MUST BE DISPLAYED THROUGHOUT CONSTRUCTION.
 - THE UNIFORM RESOURCE LOCATOR (URL) FOR THE SWPPP (IF AVAILABLE), OR THE FOLLOWING STATEMENT: "IF YOU WOULD LIKE TO OBTAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS SITE, CONTACT THE EPA REGIONAL OFFICE AT EPA REGION 10 STORMWATER PROGRAM MISHA VAKOC (VAKOC.MISHA@EPA.GOV) (206) 553-6650
 - AND THE FOLLOWING STATEMENT "IF YOU OBSERVE INDICATORS OF STORMWATER POLLUTANTS IN THE DISCHARGE OR IN THE RECEIVING WATERBODY, CONTACT THE EPA THROUGH THE FOLLOWING WEBSITE: [HTTPS://WWW.EPA.GOV/ENFORCEMENT/REPORT-ENVIRONMENTAL-VIOLATIONS](https://www.epa.gov/enforcement/report-environmental-violations)."
 - THE NOTICE MUST BE LOCATED SO THAT IT IS VISIBLE FROM THE PUBLIC ROAD THAT IS NEAREST TO THE ACTIVE PART OF THE CONSTRUCTION SITE.
 - THE NOTICE MUST USE A FONT LARGE ENOUGH TO BE READILY VIEWED FROM A PUBLIC RIGHT-OF-WAY.
- THE SWPPP MUST BE SIGNED AND CERTIFIED IN ACCORDANCE WITH APPENDIX I, SECTION 1.11 OF THE CONSTRUCTION GENERAL PERMIT.
- THE CONTRACTOR AND OWNER/DEVELOPER ARE RESPONSIBLE FOR OBTAINING THE EPA FORMS FOR N.O.T. (NOTICE OF TERMINATION).

pivot north ARCHITECTURE

PIVOT NORTH ARCHITECTURE, PLLC.
1101 W. GROVE STREET
BOISE, ID 83702
www.pivotnorthdesign.com

STAMP: PROFESSIONAL ENGINEER
LICENSED
13437
STATE OF IDAHO
ERIC CRONIN
05/09/2022

RICEfergusMILLER

THE LAND GROUP
LIC. NO. 121106

Project: TWIN FALLS FIRE STATION 3
1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Revisions:

1	CITY COMMENTS	4/11/2022 & 5/19/2022
2	ADDENDUM 2	5/19/2022

Project No: 20-042
Date: 03/14/2022
Checked By: ECBS
Drawn By: CRUL
Sheet Name:

SWPPP SITE PLAN

BID SET

Sheet No: C1.50

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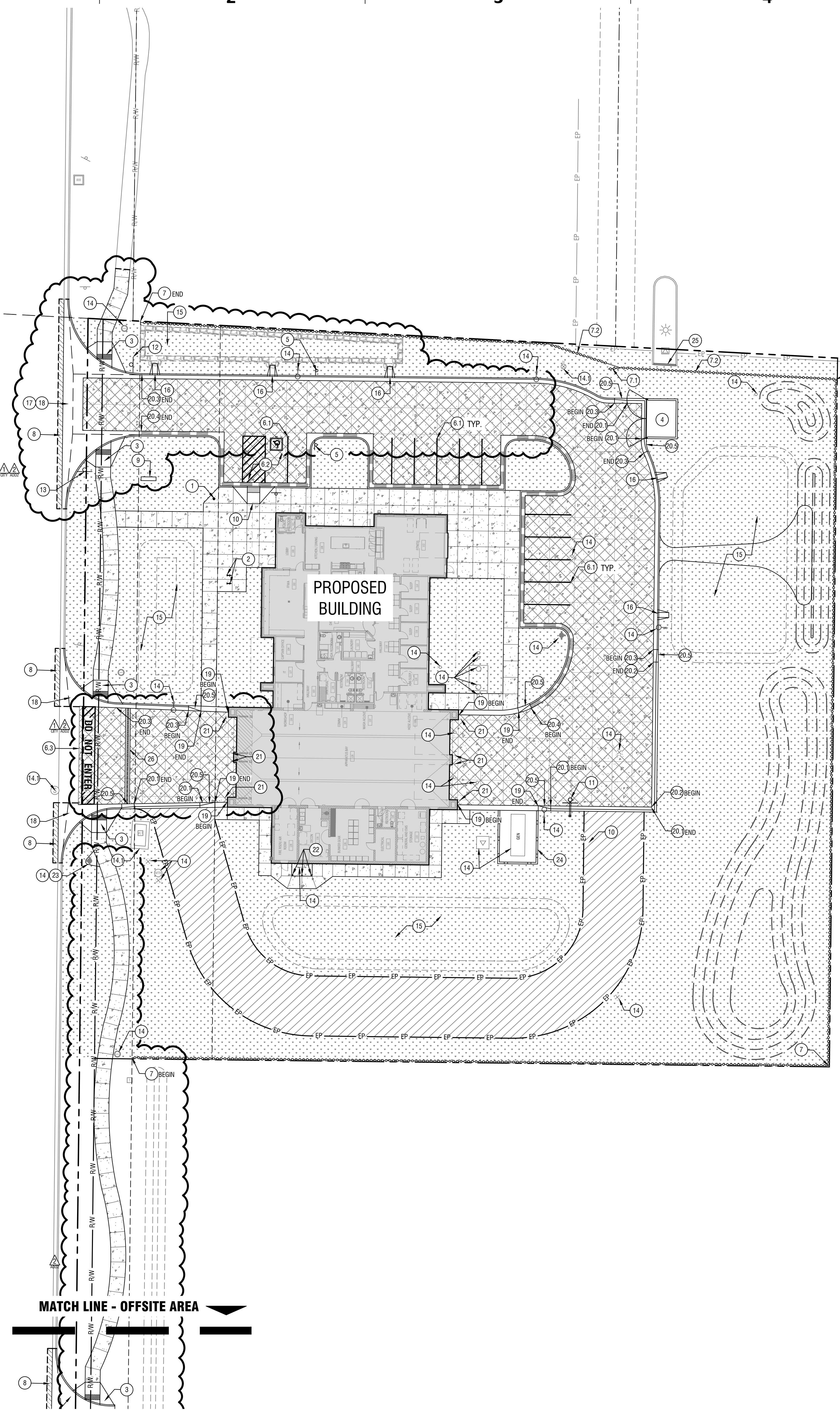
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STATE HIGHWAY 74 (WASHINGTON ST. SOUTH)



MATCH LINE - OFFSITE AREA

Material Legend

- LANDSCAPE AREA - REFER TO L1.00 FOR ADDITIONAL INFORMATION
- ROADWAY (TD) ASPHALT PAVING PER DETAIL 8/C2.50. REFER TO KEYNOTES FOR ASPHALT PAVEMENT WITHIN RIGHT-OF-WAY.
- HEAVY DUTY ASPHALT PAVING PER DETAIL 8/C2.50.
- STANDARD CONCRETE FLATWORK PER DETAIL 9/C2.50.
- HEAVY DUTY CONCRETE FLATWORK PER DETAIL 10/C2.50.

Sign Legend:

- S1 STOP
30"x30"
(R1-1)
H=7'
- S2 FIRE DEPARTMENT ACCESS ONLY
24"x18"
H=7'
- S3 STATE APPROVED DISABLED PARKING SIGN 12"x18"
H=5'
- S4 PROVIDE VAN SIGN WHERE APPLICABLE 12"x6"

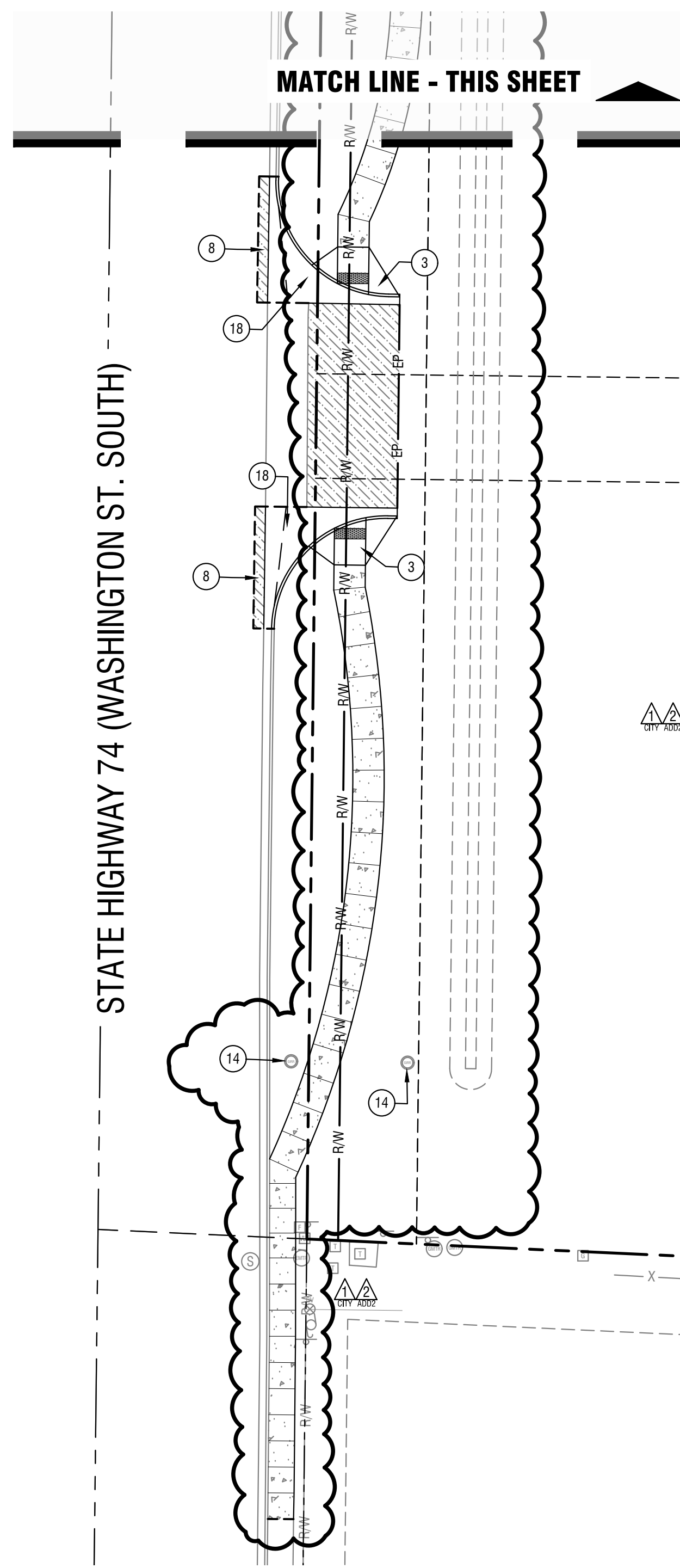
- NOTES:**
1. INSTALL SIGN POST AND FOOTING PER DETAILS 6&7/C2.50.
 2. DISTANCE FROM BOTTOM OF SIGN TO FINISH GRADE SHALL BE DIMENSION 'H' AS NOTED.

Sheet Notes:

- A. REFER CLOSELY TO BUILDING LAYOUT DRAWINGS IN RELATION TO SITE LAYOUT ITEMS. CONTRACTOR TO VERIFY LISTED DIMENSIONS PRIOR TO CONSTRUCTION.
- B. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DISTANCES AND GRADES IN THE FIELD AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR A DECISION PRIOR TO COMMENCING WITH THE WORK.
- C. PROVIDE JOINTS AS SHOWN ON PLANS. JOINTS ARE AN INTEGRAL PART OF THE DESIGN AND SHALL NOT VARY FROM PATTERNS AND LOCATIONS SHOWN. CONTRACTOR SHALL REMOVE ANY FLATWORK THAT DOES NOT CONFORM TO THE DESIGN.
- D. CONCRETE JOINT SPACING IN HEAVY DUTY CONCRETE FLATWORK SHALL NOT EXCEED 14". PANELS SHALL BE KEPT AS SQUARE AS POSSIBLE. MAXIMUM LENGTH:WIDTH RATIO SHALL NOT EXCEED 1.5:1.
- E. REFER TO SPECIFICATION SECTION 32.13.13 FOR ADDITIONAL INFORMATION RELATED TO CONCRETE JOINT REQUIREMENTS, JOINT LAYOUT AND POUR SEQUENCE PLAN FOR REVIEW AND APPROVAL.
- F. ALL WALKS AND FLATWORK SHALL BE ESTABLISHED IN THE FIELD FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL LAYOUT THE AREA OR FORM WORK FOR REVIEW BY THE OWNER'S REPRESENTATIVE. AFTER REVIEW AND NECESSARY MODIFICATIONS AS DIRECTED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION. IF APPROVAL IS NOT OBTAINED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ANY UNAUTHORIZED FIELD ADJUSTMENTS.
- G. TRANSITION OF CURVES TO OTHER CURVES AND CURVES TO TANGENTS SHALL BE SMOOTH AND CONTINUOUS.
- H. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.

Keynotes:

1. FLAG POLE, SEE SPECIFICATION SECTION 32.33.00.
2. DERO HOOP BICYCLE RACK, PER DETAIL 2/C2.50.
3. PEDESTRIAN RAMP PER CITY OF TWIN FALLS STANDARD DRAWING TFS0-712C.
4. 6-YD TRASH BIN / WHEEL TOTE RECYCLING ENCLOSURE, REFER TO ARCHITECTURAL AND STRUCTURAL FOR CONCRETE SLAB, FOUNDATIONS AND SCREEN WALLS. REFER TO SHEET C4.00 FOR SLAB GRADING.
5. INSTALL SIGN S2, REFER TO SIGN LEGEND.
6. PAVEMENT MARKING, SEE SPECIFICATION SECTION 32.13.13.
- 6.1. 4-IN WHITE PARKING STALL STRIPE.
- 6.2. ADA PARKING, SEE DETAIL 3/C2.50.
- 6.3. DO NOT ENTER, SEE SPECIFICATION SECTION 32.13.13.
7. 6' TALL OPEN STYLE ALUMINUM FENCE, SEE DETAILS 4 & 5/C2.51 & SPECIFICATION SECTION 32.31.13.
- 7.1. 5-FT MAN GATE.
- 7.2. FINAL FENCE LOCATION IN THIS VICINITY SHALL BE VERIFIED AND COORDINATED WITH IDAHO POWER AND OWNER'S REPRESENTATIVE.
8. TYPE "P" ASPHALT STREET OUT REPAIR PER CITY OF TWIN FALLS STANDARD DRAWING TFS0-303. MATCH TD ROADWAY SECTION, REFER TO DETAIL 8/C2.50 FOR ADDITIONAL INFORMATION.
9. FUTURE DOUBLE SIDED ELECTRONIC READER BOARD MONUMENT SIGN: ±6' L x 1.5' W x 4' H. SHOWN FOR REFERENCE ONLY.
10. CONSTRUCT PEDESTRIAN RAMP PER DETAIL 3/C2.50.
11. STANDARD BASKETBALL HOOP, SEE SPECIFICATION SECTION 32.33.00.
12. INSTALL SIGN 1, REFER TO SIGN LEGEND.
13. REINSTALLED "RIGHT LANE MUST TURN RIGHT" SIGN, PER DETAILS 6 & 7/C2.50. MATCH PREDEVELOPMENT SIGN HEIGHT.
14. UTILITY STRUCTURE, REFER TO SHEET C5.00 FOR ADDITIONAL INFORMATION.
- 14.1. EXISTING UTILITY STRUCTURE.
15. STORM DRAINAGE SWALE, REFER TO SHEET C4.10 FOR ADDITIONAL INFORMATION.
16. INSTALL CURB DRAIN PER DETAIL 1/C2.50.
17. INSTALL VALLEY GUTTER PER CITY OF TWIN FALLS STANDARD DRAWING TFS0-708.
18. INSTALL CURB TURN FILET APPROACH SIMILAR TO CITY OF TWIN FALLS STANDARD DRAWING TFS0-708A.
19. INSTALL 2-FT CONCRETE RIBBON CURB PER DETAIL 15/C2.50.
20. INSTALL CURB & GUTTER
- 20.1. MOUNTABLE ROUNDABOUT CURB SIMILAR TO ISPCW SD-701B, INSTALL 1'-2" GUTTER PAN FOR 2-FT TOTAL CURB WIDTH.
- 20.2. CONCRETE ROLLED CATCH PLATE CURB & GUTTER PER DETAIL 14/C2.50.
- 20.3. CURB AND CATCH PLATE GUTTER PER DETAIL 12/C2.50.
- 20.4. CURB AND REVERSE PLATE GUTTER PER DETAIL 13/C2.50.
- 20.5. TRANSITION BETWEEN CURB TYPES.
21. BOLLARDS, REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION.
22. STEEL SITE BOLLARD PER DETAIL 1/C2.51.
23. INSTALL CONCRETE APRON PER DETAIL 3/C2.51.
24. GENERATOR ENCLOSURE, REFER TO ARCHITECTURAL AND STRUCTURAL FOR CONCRETE SLAB, FOUNDATIONS AND SCREEN WALLS. REFER TO SHEET C4.00 FOR SLAB GRADING.
25. INSTALL 6" VERTICAL CURB (NO GUTTER) PER ISPCW SD-701A AT EXISTING ISLAND NOSE.
26. TRENCH DRAIN, REFER TO SHEET C4.10 FOR ADDITIONAL INFORMATION.



STATE HIGHWAY 74 (WASHINGTON ST. SOUTH)

1 Offsite Area

Scale: 1" = 20'



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Project:
TWIN FALLS FIRE STATION 3
1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Revisions:

1	CITY COMMENTS	4/11/2022 & 5/19/2022
2	ADDENDUM 2	5/19/2022

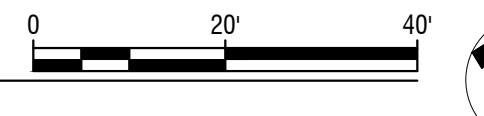
Project No: 20-042
Date: 03/14/2022
Checked By: EC/BS
Drawn By: CR/L

Sheet Name:
SITE MATERIALS PLAN

Sheet No:
C2.00

Site Materials Plan

Horizontal Scale: 1" = 20'



BID SET

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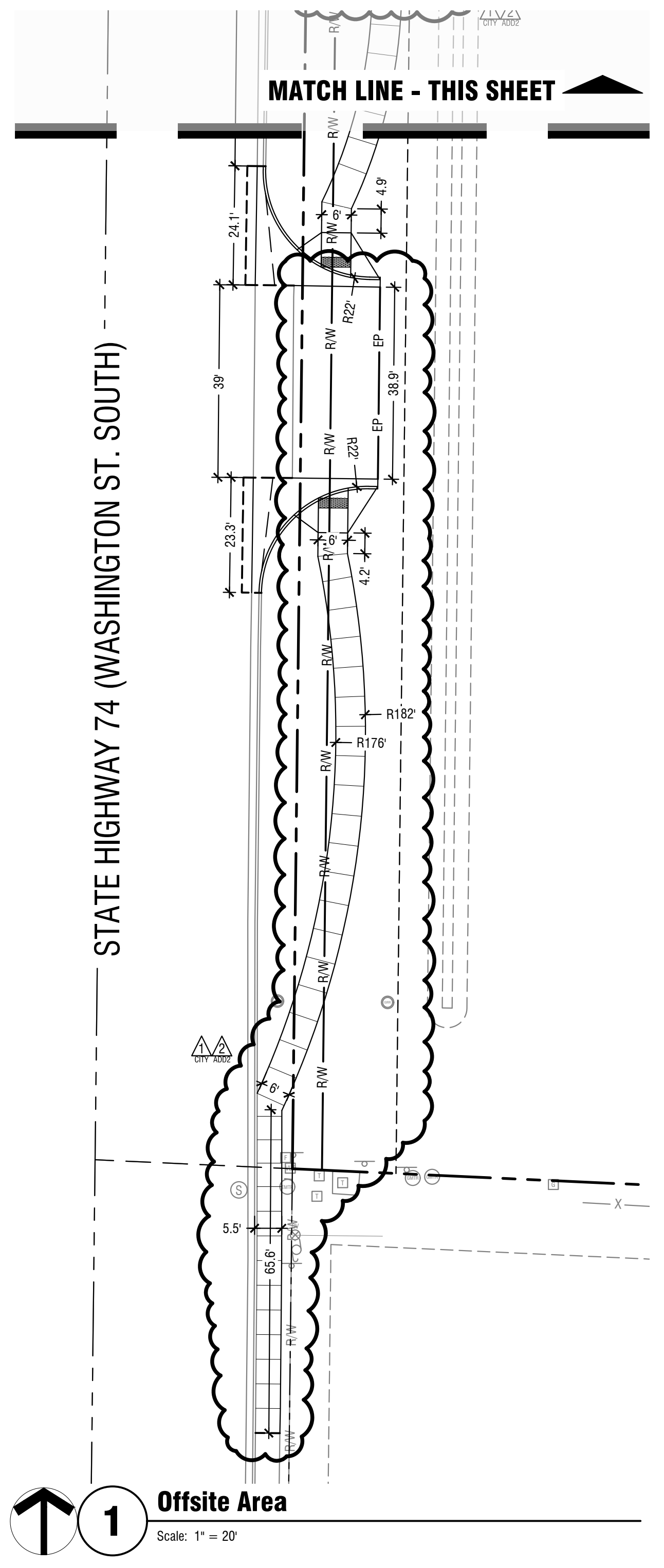
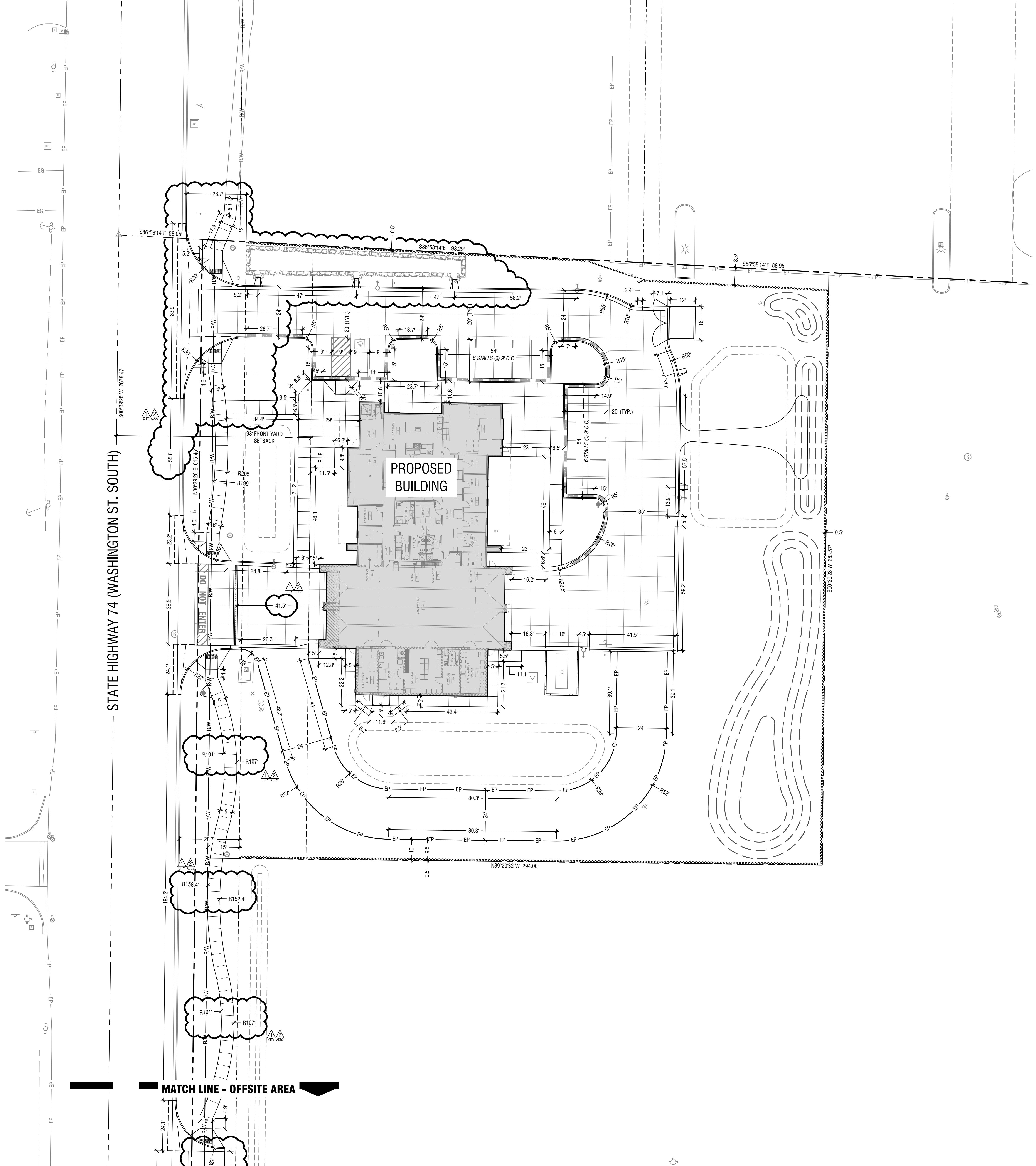
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Sheet Notes:

- A. REFER CLOSELY TO BUILDING LAYOUT DRAWINGS IN RELATION TO SITE LAYOUT ITEMS. CONTRACTOR TO VERIFY LISTED DIMENSIONS PRIOR TO CONSTRUCTION.
- B. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF WALK, EDGE OF PAVEMENT, EDGE OF FOUNDATION, EDGE OF WALLS OR CENTER OF POST.
- C. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS DISTANCES AND GRADES IN THE FIELD AND BRING ANY DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR A DECISION PRIOR TO COMMENCING WITH THE WORK.
- D. PROVIDE JOINTS AS SHOWN ON PLANS. JOINTS ARE AN INTEGRAL PART OF THE DESIGN AND SHALL NOT VARY FROM PATTERNS AND LOCATIONS SHOWN. CONTRACTOR SHALL REMOVE ANY FLATWORK THAT DOES NOT CONFORM TO THE DESIGN.
- E. CONCRETE JOINT SPACING IN HEAVY DUTY CONCRETE FLATWORK SHALL NOT EXCEED 14'. PANELS SHALL BE KEPT AS SQUARE AS POSSIBLE. MAXIMUM LENGTH:WIDTH RATIO SHALL NOT EXCEED 1.5:1.
- F. REFER TO SPECIFICATION SECTION 32 13 13 FOR ADDITIONAL INFORMATION RELATED TO CONCRETE JOINT REQUIREMENTS, JOINT LAYOUT AND POUR SEQUENCE PLAN FOR REVIEW AND APPROVAL.
- G. ALL WALKS AND FLATWORK SHALL BE ESTABLISHED IN THE FIELD FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL LAYOUT THE AREA OR FORM WORK FOR REVIEW BY THE OWNER'S REPRESENTATIVE. AFTER REVIEW AND NECESSARY MODIFICATIONS AS DIRECTED BY THE OWNER'S REPRESENTATIVE, THE CONTRACTOR SHALL PROCEED WITH CONSTRUCTION. IF APPROVAL IS NOT OBTAINED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ANY UNAUTHORIZED FIELD ADJUSTMENTS.
- H. TRANSITION OF CURVES TO OTHER CURVES AND CURVES TO TANGENTS SHALL BE SMOOTH AND CONTINUOUS.
- I. CONTRACTOR SHALL REFER TO SPECIFICATIONS AND DETAILS FOR ADDITIONAL REQUIREMENTS.



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STAMP:



Project:
TWIN FALLS FIRE STATION 3
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Revisions: Δ

1	CITY COMMENTS	4/11/2022 & 5/19/2022
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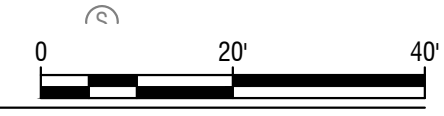
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Date: 03/14/2022
Checked By: EC/BS
Drawn By: CR/L
Sheet Name:

SITE LAYOUT PLAN

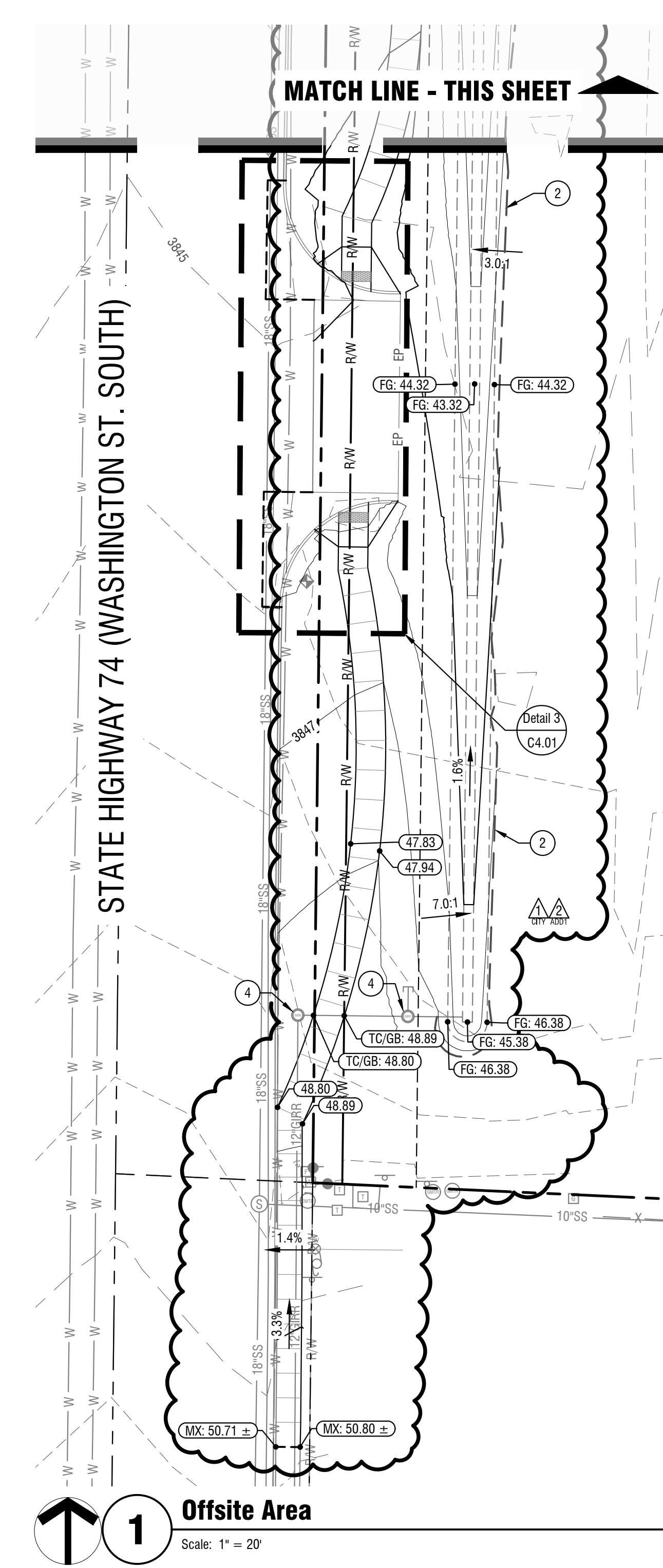
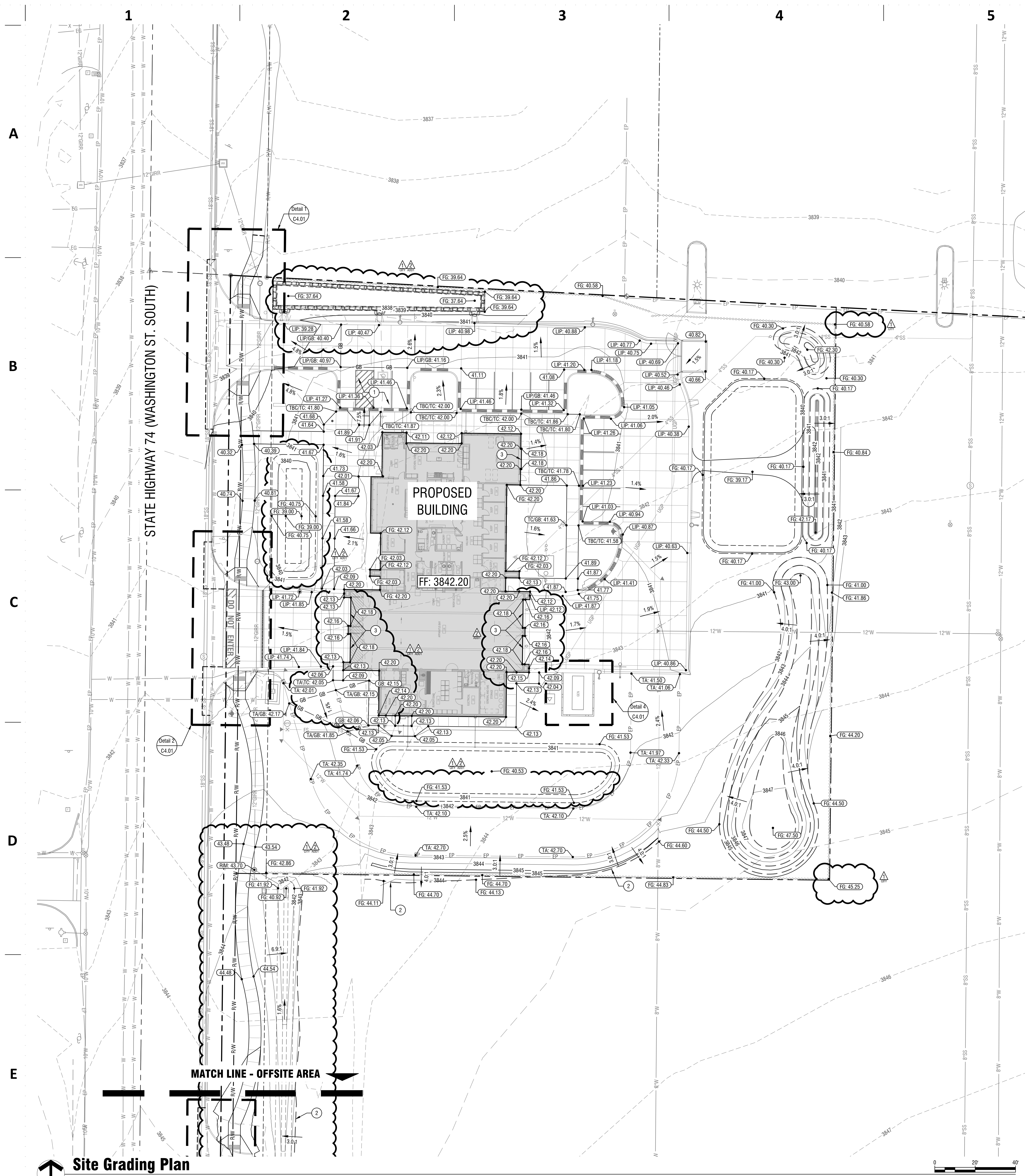
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Sheet No:
C2.10

Site Layout Plan
Horizontal Scale: 1" = 20'



1 Offsite Area
Scale: 1" = 20'



- Sheet Notes:**
- CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET C3.00.
 - EXISTING AND PROPOSED CONTOURS ARE AT 1-FT INTERVALS.
 - ADD 3800 FEET TO ALL SPOT ELEVATIONS FOR ACTUAL ELEVATION.
 - BUILDING FINISH FLOOR ELEVATION 3842.20 REFERS TO ARCHITECTURAL ELEVATION 100'-0".
 - SPOT ELEVATIONS INDICATE TOP OF CONCRETE UNLESS NOTED OTHERWISE
AS FOLLOWS:
FF = FINISH FLOOR
FG = FINISH GRADE
FL = FLOW LINE
GB = GRADE BREAK
LIP = LIP OF GUTTER
LP = LOW POINT
MX = MATCH EXISTING
RIM = RIM OF STRUCTURE
TBC = TOP BACK OF CURB
TC = TOP OF CONCRETE
 - SIDEWALK HARDSCAPE SHALL NOT EXCEED 2.0% CROSS SLOPE OR HAVE CROSS SLOPE LESS THAN 1.0%. LONGITUDINAL SLOPES SHALL NOT EXCEED 5%. SLOPES WITHIN PEDESTRIAN RAMPS SHALL NOT EXCEED 12:1 (H:V). NO TOLERANCES FOR SLOPES EXCEEDING MAXIMUMS WILL BE ALLOWED.
 - REFER TO SHEET C5.00 FOR UTILITY PLAN & SHEET C4.10 FOR DRAINAGE PLAN.
- Keynotes:**
- SLOPES SHALL NOT EXCEED 2% IN ANY DIRECTION WITHIN ADA ACCESSIBILITY PARKING AREA.
 - APPROXIMATE LIMITS OF CATCH SLOPE.
 - VERTICAL DIFFERENCE IN ADJACENT GRADES SHALL NOT EXCEED 1/4-IN. REFER TO STRUCTURAL DETAIL 5/4.01 FOR ADDITIONAL INFORMATION.
 - REFER TO SHEET CS.10 & CS.11 FOR RIM ELEVATIONS.

Sheet Notes:

CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET C3.00.

EXISTING AND PROPOSED CONTOURS ARE AT 1-FT INTERVALS.

ADD 3800 FEET TO ALL SPOT ELEVATIONS FOR ACTUAL ELEVATION.

BUILDING FINISH FLOOR ELEVATION 3842.20 REFERS TO ARCHITECTURAL ELEVATION 100'-0".

SPOT ELEVATIONS INDICATE TOP OF CONCRETE UNLESS NOTED OTHERWISE
AS FOLLOWS:
FF = FINISH FLOOR
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FL = FLOW LINE
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Keynotes:

- SLOPES SHALL NOT EXCEED 2% IN ANY DIRECTION WITHIN ADA ACCESSIBILITY PARKING AREA.
- APPROXIMATE LIMITS OF CATCH SLOPE.
- VERTICAL DIFFERENCE IN ADJACENT GRADES SHALL NOT EXCEED 1/4-IN. REFER TO STRUCTURAL DETAIL 5/4.01 FOR ADDITIONAL INFORMATION.
- REFER TO SHEET CS.10 & CS.11 FOR RIM ELEVATIONS.



PIVOT NORTH ARCHITECTURE, PLLC.
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Project:
TWIN FALLS FIRE STATION 3
1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Revisions:

1	CITY COMMENTS	4/11/2022 & 5/19/2022
2	ADDENDUM 2	5/19/2022

Project No: 20-042
Date: 03/14/2022
Checked By: EGBS
Drawn By: CRUL
Sheet Name:

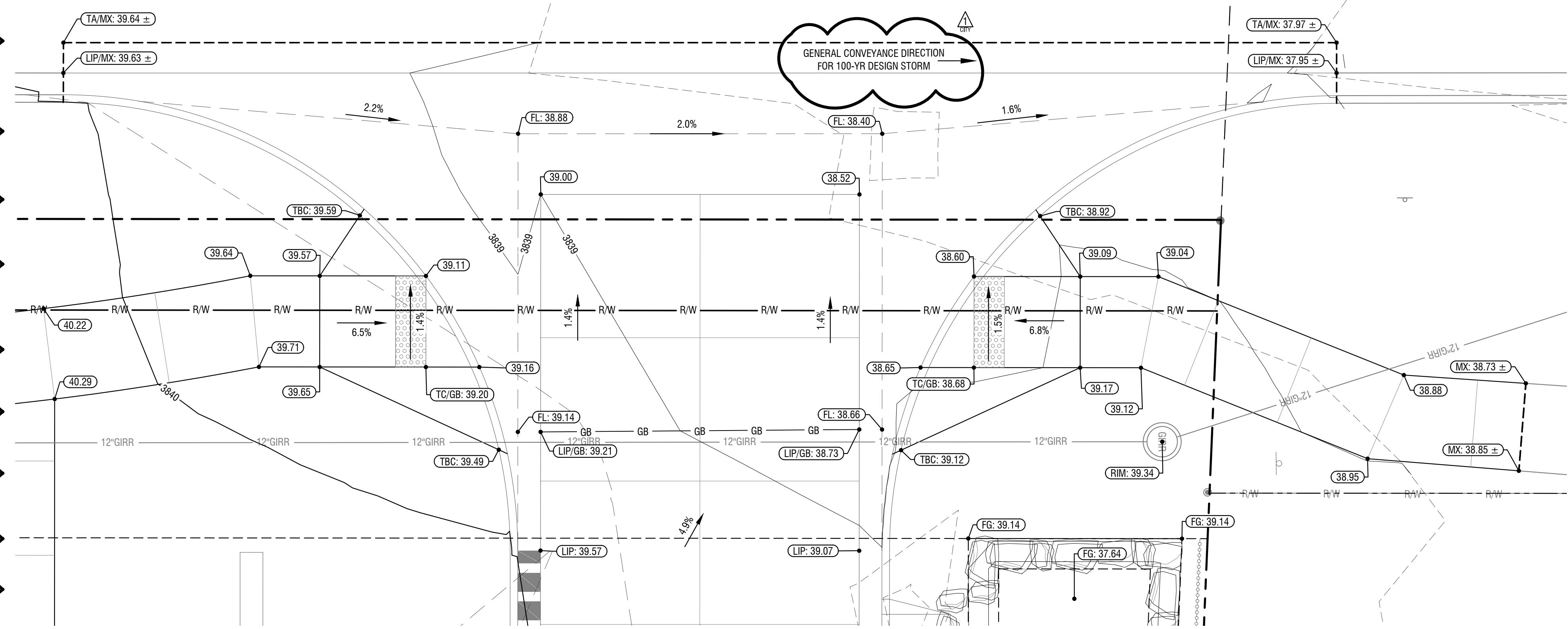
SITE GRADING PLAN

Sheet No:
C4.00

BID SET

STATE HIGHWAY 74 (WASHINGTON ST. SOUTH)

A



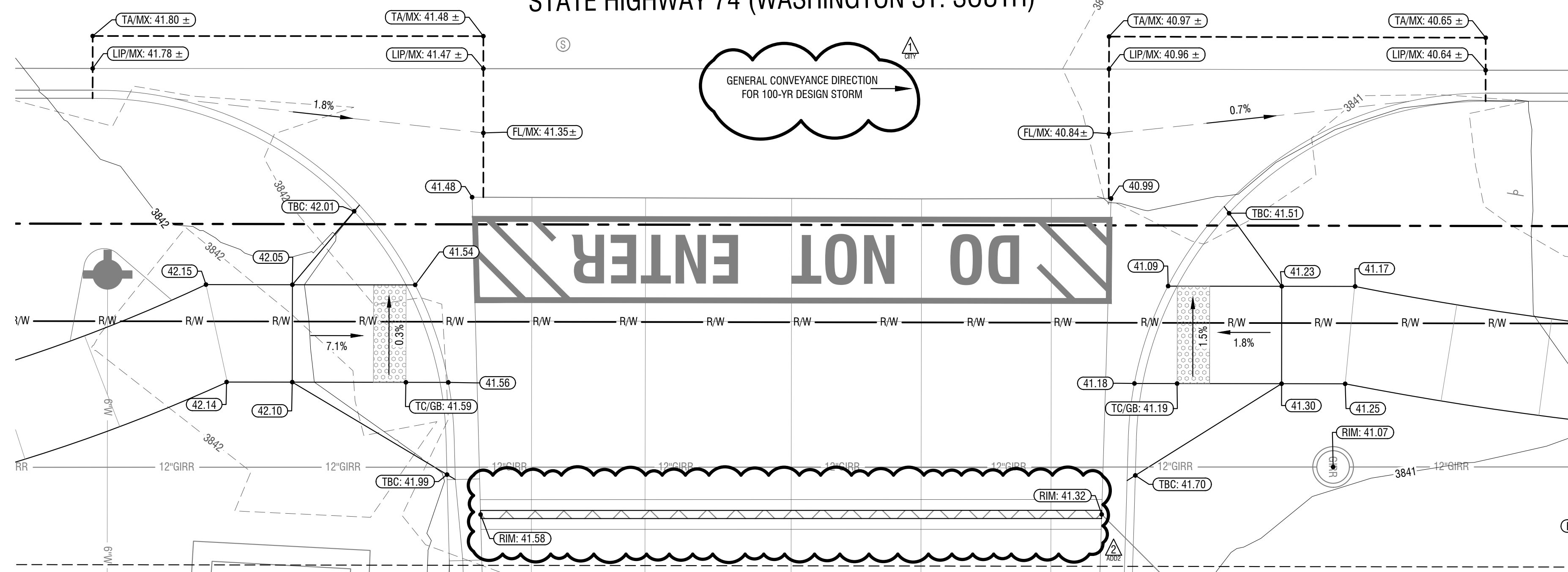
Grading Enlargement 1

Horizontal Scale: 1" = 5'



STATE HIGHWAY 74 (WASHINGTON ST. SOUTH)

C



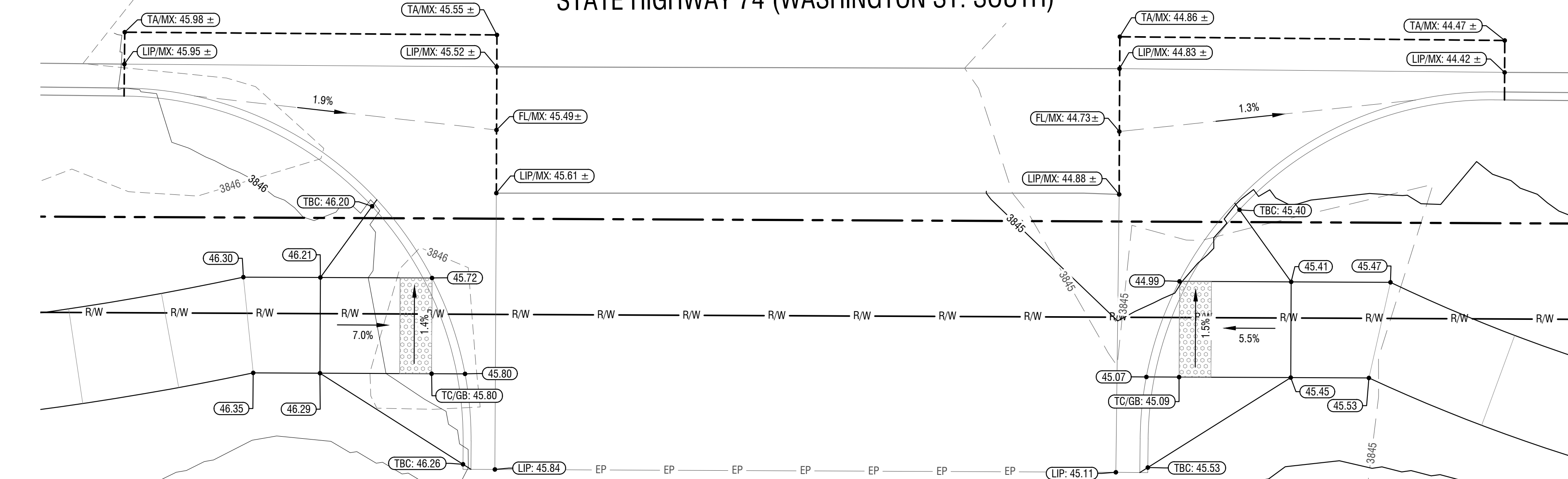
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Horizontal Scale: 1" = 5'



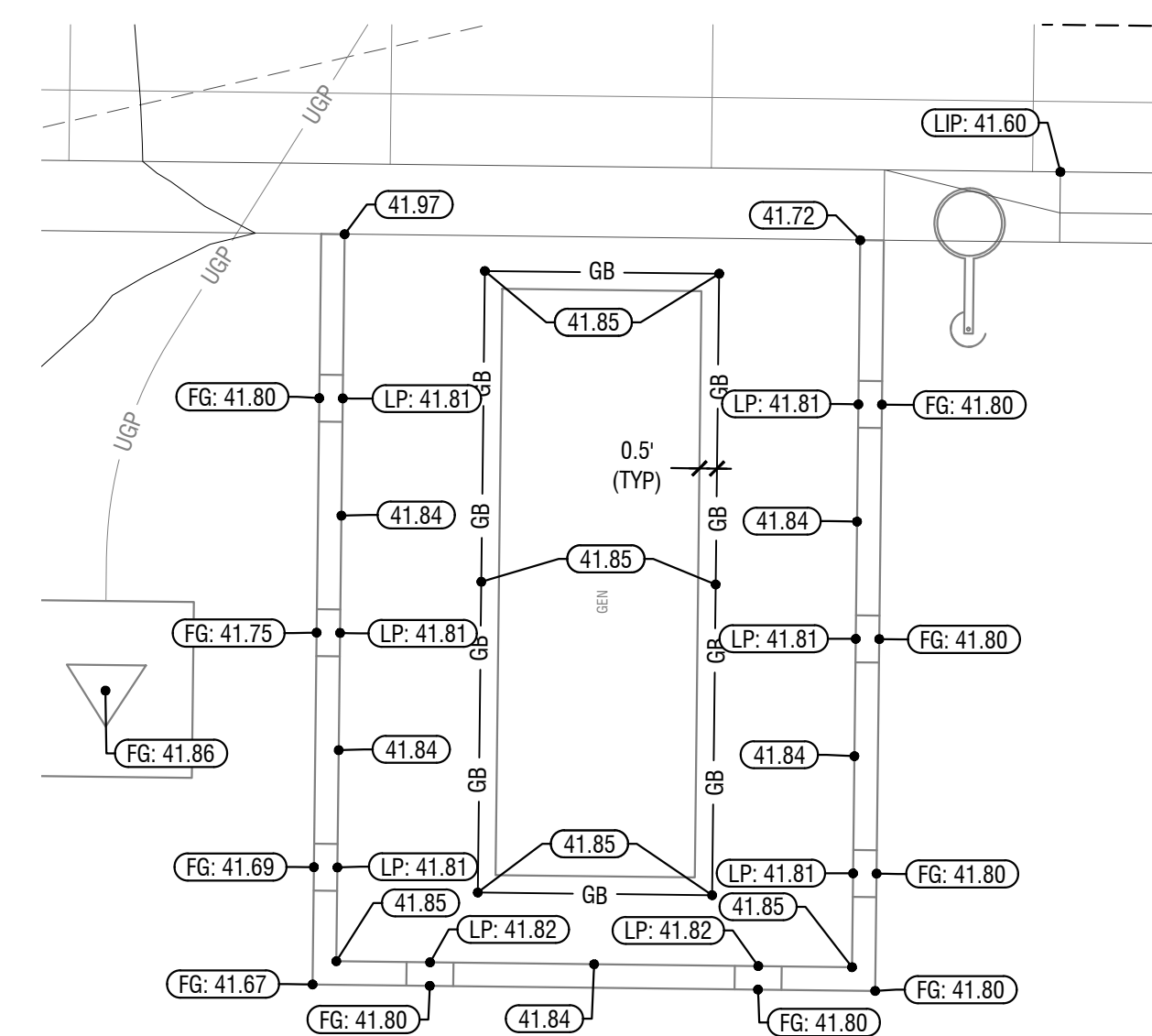
STATE HIGHWAY 74 (WASHINGTON ST. SOUTH)

E



Grading Enlargement 3

Horizontal Scale: 1" = 5'



Grading Enlargement 4

Horizontal Scale: 1" = 5'



Sheet Notes:

- A. CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET C3.00.
- B. EXISTING AND PROPOSED CONTOURS ARE AT 1-FT INTERVALS.
- C. ADD 3800 FEET TO ALL SPOT ELEVATIONS FOR ACTUAL ELEVATION.
- D. BUILDING FINISH FLOOR ELEVATION 3842.20 REFERS TO ARCHITECTURAL ELEVATION 100'-0".
- E. SPOT ELEVATIONS INDICATE TOP OF CONCRETE UNLESS NOTED OTHERWISE. AS FOLLOWS:
 FF = FINISH FLOOR
 FG = FINISH GRADE
 FL = FLOW LINE
 GB = GRADE BREAK
 LP = LIP OF GUTTER
 LP = LOW POINT
 MX = MATCH EXISTING
 RIM = RIM OF STRUCTURE
 TBC = TOP BACK OF CURB
 TC = TOP OF CONCRETE
- F. SIDEWALK HARDSCAPE SHALL NOT EXCEED 2.0% CROSS SLOPE OR HAVE CROSS SLOPE LESS THAN 1.0%. LONGITUDINAL SLOPES SHALL NOT EXCEED 5%. SLOPES WITHIN PEDESTRIAN RAMPS SHALL NOT EXCEED 12:1 (H:V). NO TOLERANCES FOR SLOPES EXCEEDING MAXIMUMS WILL BE ALLOWED.
- G. REFER TO SHEET C5.00 FOR UTILITY PLAN & SHEET C4.10 FOR DRAINAGE PLAN.



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Project:
TWIN FALLS FIRE STATION 3

1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Revisions: △

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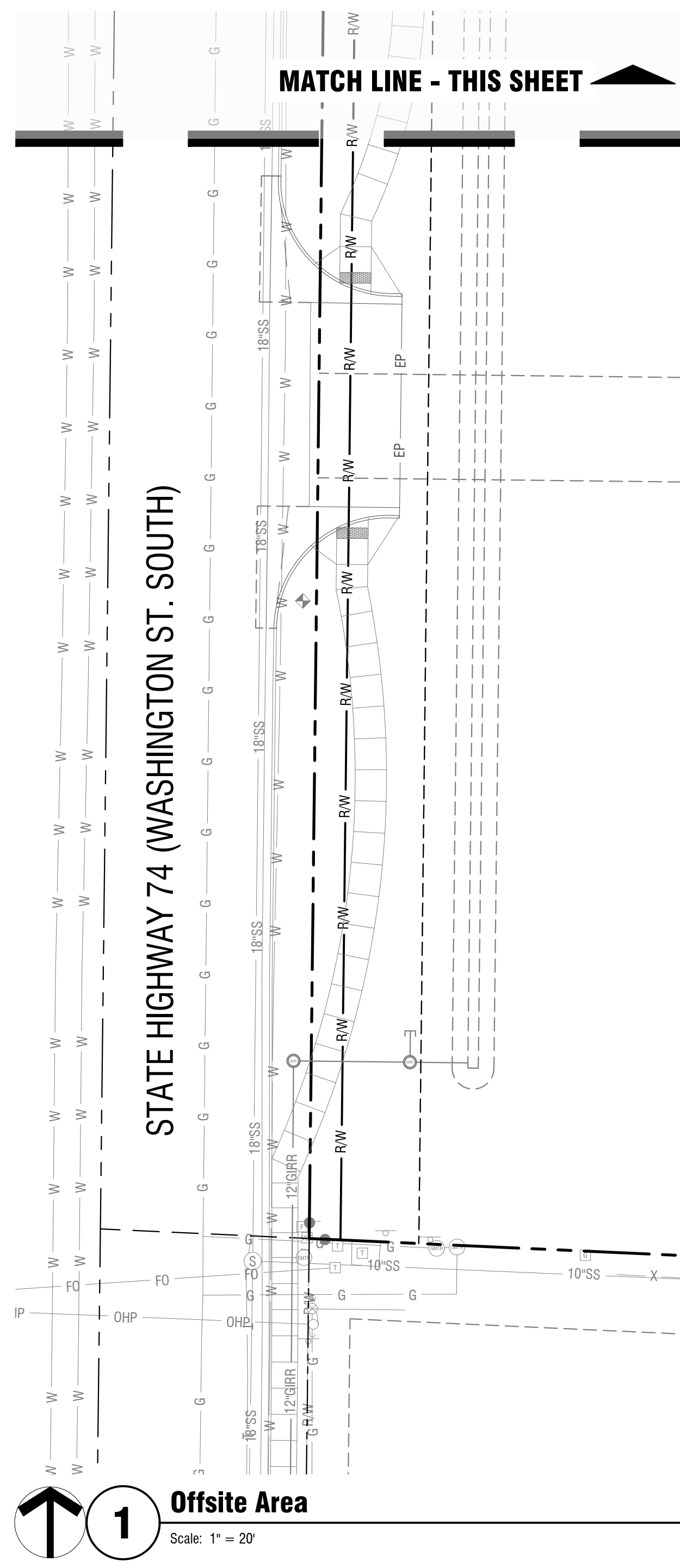
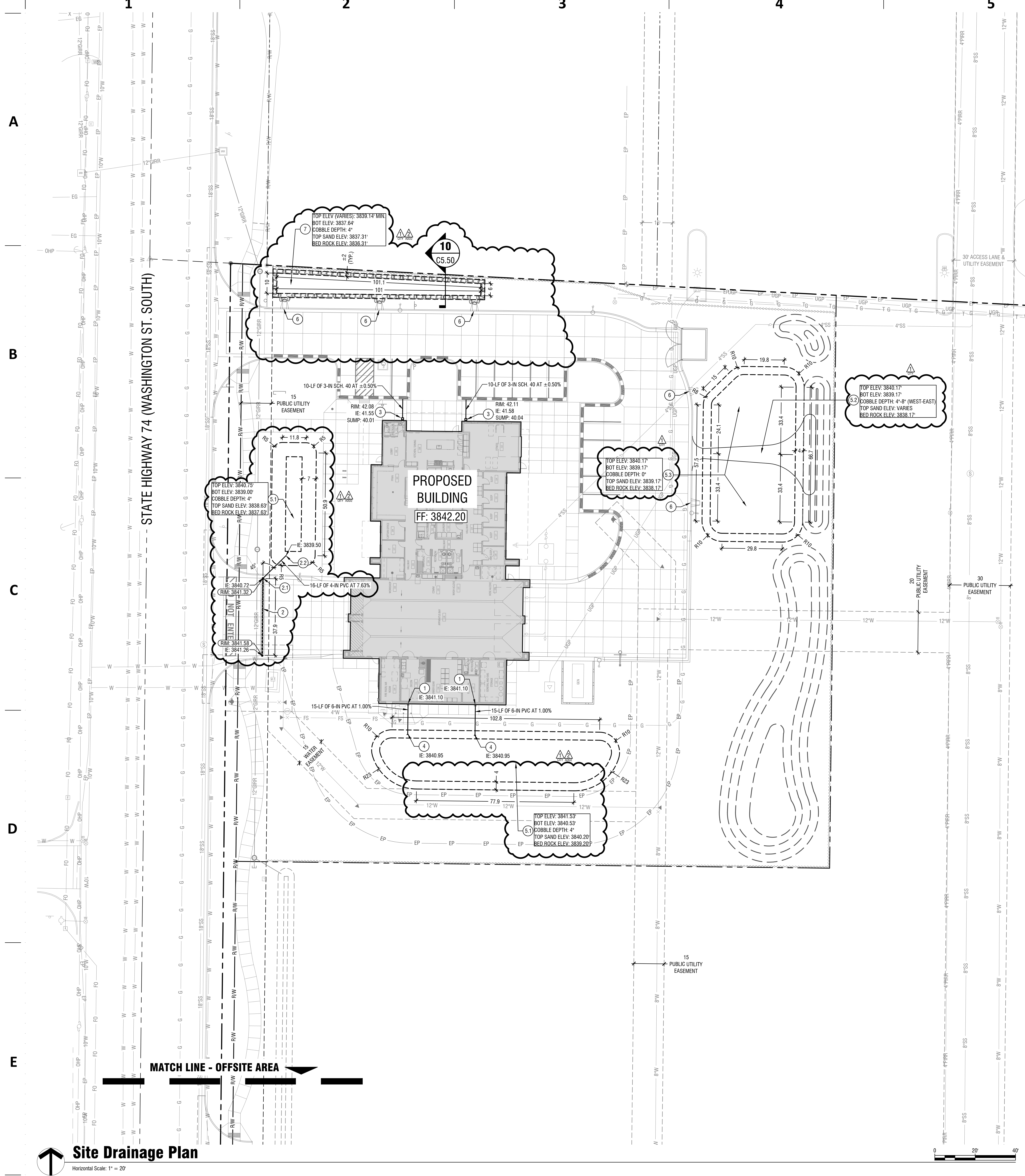
Sheet Name:

GRADING ENLARGEMENTS

BID SET

Sheet No:

C4.01



- Sheet Notes:**
- CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET CS.00.
 - BUILDING FINISH FLOOR ELEVATION 3842.20 REFERS TO ARCHITECTURAL ELEVATION 100'-0".
 - REFER TO SHEET CS.00 FOR A DETAILED UTILITY PLAN.
 - ALL SOLID WALL STORM DRAIN PIPE (SD) SHALL BE EITHER ASTM D3034 SDR-35 PVC (4"-15"), AASHTO M252 ADS N-12 WT (4"-10") OR AASHTO M294 ADS N-12 WT (12"-60") UNLESS OTHERWISE NOTED.
 - ALL PIPE FITTINGS, BENDS AND JOINTS SHALL BE WATER TIGHT. PROVIDE REQUIRED FITTINGS TO TRANSITION BETWEEN PIPE MATERIAL, SIZE AND TYPE.
 - PIPE LENGTHS NOTED MAY DIFFER FROM ACTUAL INSTALLED LENGTH AND ARE PROVIDED FOR REFERENCE.
- Keynotes:**
- DOWNSPOUT CONNECTION PER DETAIL 3/CS.50.
 - INSTALL TRENCH DRAIN PER DETAIL 1 & 6/CS.50 WITH DUCTILE IRON SLOTTED GRATE (PART NO. DS-232 LOAD CLASS D, COORDINATE WITH MANUFACTURER FOR FRAME REQUIREMENTS).
 - INSTALL NDS END OUTLET AT TRENCH DRAIN FOR 4-IN PVC PIPE CONNECTION PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE AND INSTALL FITTING AS REQUIRED.
 - DAYLIGHT 4-IN PVC AT SWALE BOTTOM, INVERT ELEVATION PER PLAN.
 - INSTALL NDS 12"x12" RISER, HIGH OUTLET CONFIGURATION, SUMP BOX AND GRATE. PART NUMBERS 1217, 1245, 1225 AND 1213 RESPECTIVELY. SEE DETAIL 5/CS.50 FOR ADDITIONAL INFORMATION.
 - DAYLIGHT STORM DRAIN PIPING TO SWALE, INVERT PER PLAN.
 - INFILTRATION SWALE WITH 50-YR DESIGN STORM STORAGE DEPTH. REFER TO PLAN FOR MINIMUM TOP & BOTTOM OF SWALE, TOP OF SAND AND ANTICIPATED BEDROCK ELEVATIONS. REFER TO SHEET C4.00 FOR ADDITIONAL DESIGN FINISH GRADE INFORMATION.
 - CONSTRUCT PER DETAIL 4/CS.50 (TYPE A - COBBLE SURFACE).
 - CONSTRUCT PER DETAIL 6/CS.50 (TYPE B - 8" MIN. WIDTH COBBLE SURFACE WITH PVC LINER).
 - CONSTRUCT PER DETAIL 9/CS.50 (TYPE C - SAND SURFACE).
 - CURB DRAIN. REFER TO MATERIALS PLAN FOR ADDITIONAL INFORMATION.
 - CONSTRUCT BOULDER RETAINED BIORETENTION SWALE BASIN PER DETAIL 10/CS.50. REFER TO PLAN FOR MINIMUM TOP & BOTTOM OF SWALE, TOP OF SAND AND ANTICIPATED BEDROCK ELEVATIONS. REFER TO SHEET C4.00 FOR ADDITIONAL DESIGN FINISH GRADE INFORMATION.

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 - DAYLIGHT 4-IN PVC AT SWALE BOTTOM, INVERT ELEVATION PER PLAN.
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- CURB DRAIN. REFER TO MATERIALS PLAN FOR ADDITIONAL INFORMATION.
- CONSTRUCT BOULDER RETAINED BIORETENTION SWALE BASIN PER DETAIL 10/CS.50. REFER TO PLAN FOR MINIMUM TOP & BOTTOM OF SWALE, TOP OF SAND AND ANTICIPATED BEDROCK ELEVATIONS. REFER TO SHEET C4.00 FOR ADDITIONAL DESIGN FINISH GRADE INFORMATION.

Project: TWIN FALLS FIRE STATION 3
1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Revisions:

1	CITY COMMENTS	4/11/2022 & 5/19/2022
2	ADDENDUM 2	5/19/2022

Project No: 20-042
Date: 03/14/2022
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Drawn By: CRUL

Sheet Name: SITE DRAINAGE PLAN

Sheet No: C4.10

Project: TWIN FALLS FIRE STATION 3
1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

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Sheet Name: SITE DRAINAGE PLAN

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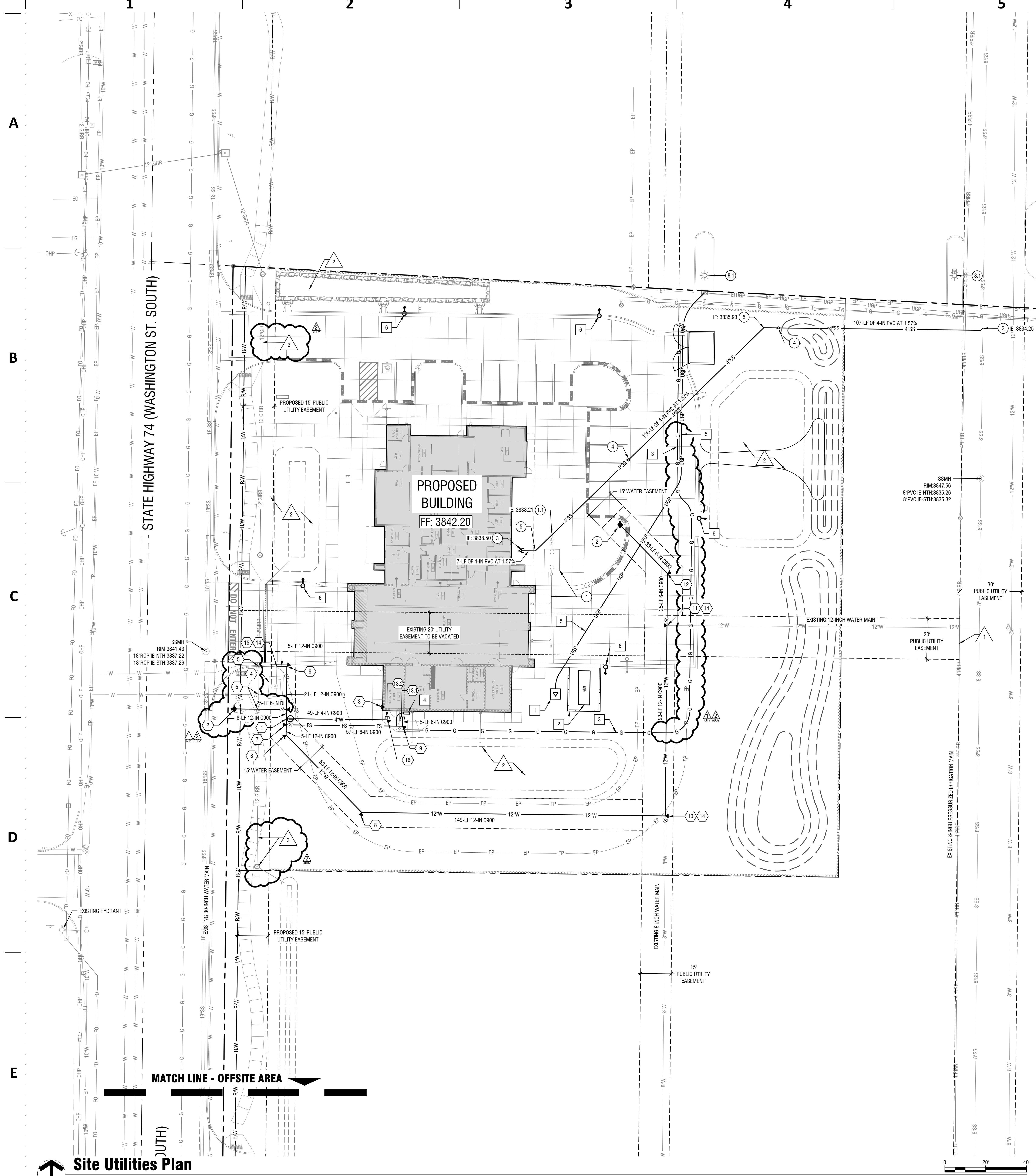


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BID SET

Site Drainage Plan
Horizontal Scale: 1" = 20'



Water Keynotes:

- INSTALL 2-IN DOMESTIC WATER SERVICE & METER PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-401A. TRANSITION TO 4-IN SERVICE AFTER METER BOX. 4-IN LENGTH NOTED IS FROM METER TO POINT OF CONNECTION WITH MECHANICAL.
- INSTALL FIRE HYDRANT ASSEMBLY WITH 5' STORZ CONNECTOR PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-404.
- BUILDING-MOUNTED FDC COORDINATE WITH BUILDING MECHANICAL & FIRE SPRINKLER CONTRACTOR.
- EXISTING PRESSURE REDUCING POTABLE WATER VALVE VAULT.
- POTABLE/NON-POTABLE WATER SEPARATION REQUIRED, REFER TO DOMESTIC WATER NOTES 10 & 11/C3.00.
- INSTALL 1-1/2" 90° BEND AND THRUST BLOCK.
- INSTALL 1-1/2"x12"x6" TEE, 1-6" GATE VALVE AND THRUST BLOCK.
- INSTALL 1-1/2" 45° BEND AND THRUST BLOCK.
- INSTALL 1-6" 90° BEND AND THRUST BLOCK.
- INSTALL 1-1/2" TEE, 1-12"x8" REDUCER, 1-8" GATE VALVE AND THRUST BLOCK.
- INSTALL 1-1/2" TEE, 1-12"x8" REDUCER, 1-6" GATE VALVE AND THRUST BLOCK.
- INSTALL 1-6" 45° BEND AND THRUST BLOCK.
- COORDINATE CONTINUATION WITH BUILDING MECHANICAL.
 - 13.1. 6" FIRE SERVICE CONNECTION.
 - 13.2. 4" DOMESTIC WATER SERVICE CONNECTION.
- INTERCEPT AND CONNECT TO EXISTING WATER MAIN, COORDINATE WITH CITY OF TWIN FALLS FOR ADDITIONAL REQUIREMENTS.
- REMOVE AND REPLACE EXISTING TEE. INSTALL 1-1/2" TEE AND THRUST BLOCK. INSTALL REDUCERS AS REQUIRED TO CONNECT TO EXISTING MAINLINES.
- INSTALL 1-4" 90° AND THRUST BLOCK.

Sheet Notes:

- CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET C3.00.
- UTILITY CONTRACTORS ARE RESPONSIBLE FOR VERIFYING LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND TIE IN POINTS PRIOR TO CONSTRUCTION. IF CONFLICTS OR DISCREPANCIES EXIST, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR ADDITIONAL DIRECTION.
- REFER TO SITE GRADING PLAN SHEET C4.00 FOR FINISH GRADING INFORMATION AND SITE DRAINAGE PLAN SHEET 4.10 FOR DRAINAGE INFORMATION.
- PIPE LENGTHS NOTED MAY DIFFER FROM ACTUAL INSTALLED LENGTH AND ARE PROVIDED FOR REFERENCE.
- BOTH DOMESTIC AND FIRE SERVICE WATER LINES REQUIRE A BACKFLOW PREVENTION DEVICE AT THE POINT OF ENTRY TO THE BUILDING. THE TYPE OF DEVICE IS CONTINGENT ON THE DEGREE OF HAZARD AND MUST MEET IDAHO DES STANDARDS.
- ALL SEWER & GRAVITY IRRIGATION PIPE SHALL BE BELL AND SPIGOT, PVC, SDR 35, ASTM D-3034, UNLESS SPECIFICALLY NOTED OTHERWISE.
- ALL WATER SERVICE LINES SHALL BE CONSTRUCTED WITH MINIMUM CLASS 200 POLYETHYLENE PIPE CONFORMING TO AWWA C-901.
- ALL WATER DISTRIBUTION MAINS INCLUDING FIRE SERVICE LATERALS SHALL BE CONSTRUCTED WITH CLASS 165 PVC PIPE CONFORMING TO AWWA C-900.
- ALL SANITARY SEWER CLEANOUT LIDS SHALL BE MARKED "SS CO" OR OTHER PRE-APPROVED ABBREVIATION.
- REFER TO IS/PWC SD-403 FOR THRUST BLOCK INSTALLATION AND REQUIREMENTS.
- ALL PIPE FITTINGS, BENDS AND JOINTS SHALL BE WATER TIGHT. PROVIDE REQUIRED FITTINGS TO TRANSITION BETWEEN PIPE MATERIAL, SIZE AND TYPE.

Sewer Keynotes:

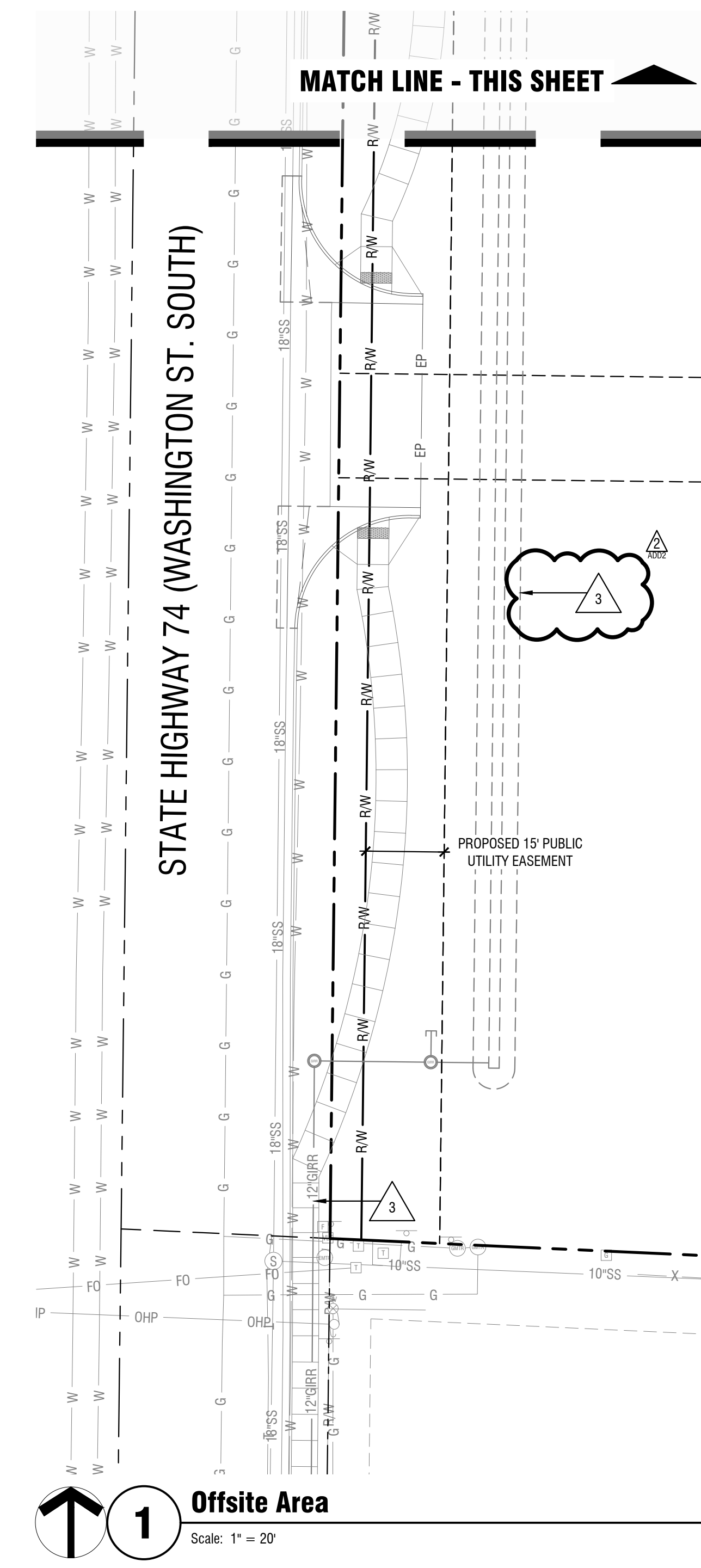
- APPARATUS BAY TRENCH DRAIN FLAMMABLE LIQUIDS INTERCEPTOR WITH DISCHARGE TO SEWER.
 - 1.1. COORDINATE WITH BUILDING MECHANICAL FOR WYE CONNECTION TO BUILDING SEWER SERVICE.
- INSTALL 4-IN SANITARY SEWER SERVICE PER CITY OF TWIN FALLS STANDARD DRAWING TFSD-S11, TYPE A OR TYPE D. FIELD VERIFY LOCATION AND CONNECTION INVERT AT MAINLINE.
- COORDINATE SEWER SERVICE CONTINUATION WITH BUILDING MECHANICAL.
- INSTALL CLEANOUT PER DETAIL 2/C5.50. INSTALL AT LOCATIONS PER PLAN, 100' MAX DISTANCE BETWEEN CLEANOUTS AND/OR MAINLINE CONNECTION.
- INSTALL 4-IN 45° ELBOW.

Dry Utility Keynotes:

- ELECTRICAL TRANSFORMER. REFER TO SITE ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.
- SITE GENERATOR AND GENERATOR ENCLOSURE. REFER TO SITE ELECTRICAL PLAN AND ARCHITECTURAL FOR ADDITIONAL INFORMATION.
- NATURAL GAS LINE. EXTEND TO METER AT BUILDING. COORDINATE WITH INTERMOUNTAIN GAS AND BUILDING MECHANICAL FOR ADDITIONAL INFORMATION. ROUTING ASSUMED.
- GAS METER. COORDINATE WITH INTERMOUNTAIN GAS AND BUILDING MECHANICAL FOR ADDITIONAL INFORMATION.
- POWER AND COMMUNICATION. REFER TO SITE ELECTRICAL FOR ADDITIONAL INFORMATION. ROUTING ASSUMED.
- SITE LIGHTING. REFER TO SITE ELECTRICAL PLAN FOR ADDITIONAL INFORMATION.

Miscellaneous Keynotes:

- PRESSURE IRRIGATION TAP LOCATION. COORDINATE WITH IRRIGATION PLAN L2.00 FOR ADDITIONAL INFORMATION.
- STORM WATER RETENTION BASIN. REFER TO SITE DRAINAGE PLAN SHEET C4.10 FOR ADDITIONAL INFORMATION.
- GRAVITY IRRIGATION PIPE, STRUCTURE, OR OPEN DITCH. REFER TO SHEETS C5.10 AND C5.11 FOR MORE INFORMATION.



1 Offsite Area
Scale: 1" = 20'

pivot north
ARCHITECTURE

PIVOT NORTH ARCHITECTURE, PLLC.
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BOISE, ID 83702
www.pivotnorthdesign.com

STAMP:

RICEfergusMILLER

THE LAND GROUP
LLC (INC. 12/10/06)

Project:
TWIN FALLS FIRE STATION 3
1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

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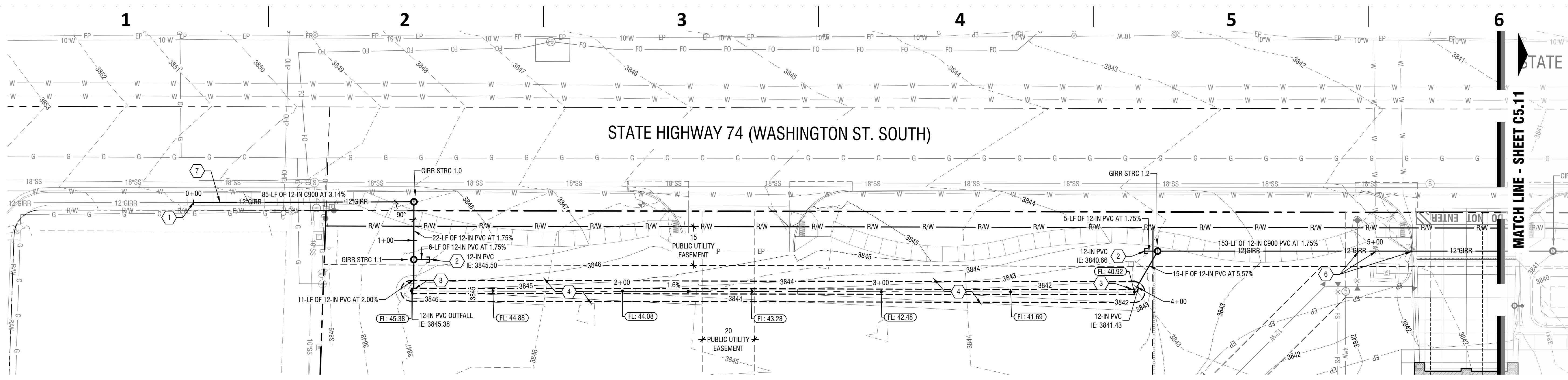
Project No: 20-042
Date: 03/14/2022
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Drawn By: CRUL

Sheet Name:
SITE UTILITIES PLAN

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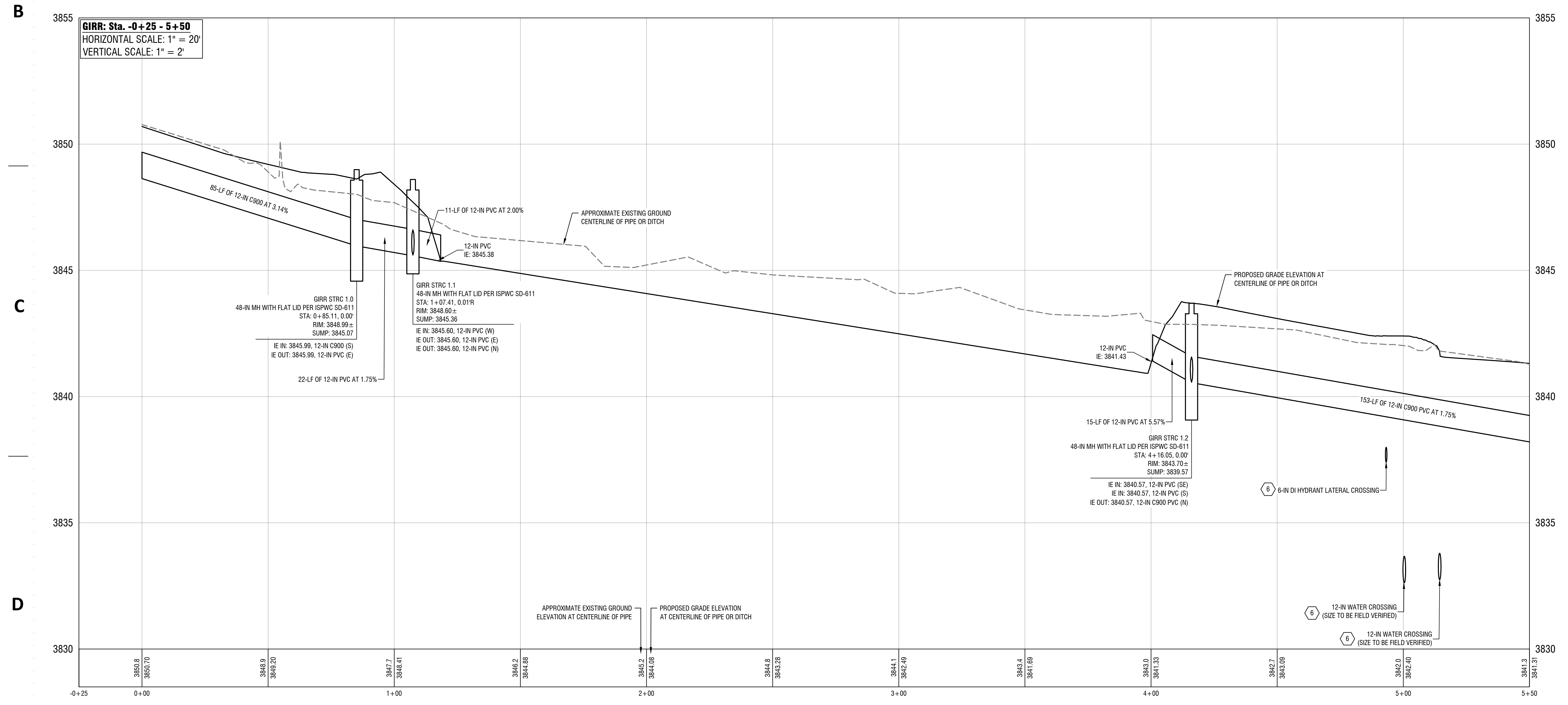
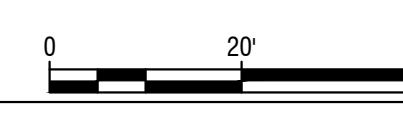
Sheet No:
C5.00

Site Utilities Plan
Horizontal Scale: 1" = 20'



Gravity Irrigation Plan - Area A

Horizontal Scale: 1" = 20'



Sheet Notes:

- A. CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET C3.00.
- B. UTILITY CONTRACTORS ARE RESPONSIBLE FOR VERIFYING LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND TIE IN POINTS PRIOR TO CONSTRUCTION. IF CONFLICTS OR DISCREPANCIES EXIST, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR ADDITIONAL DIRECTION.
- C. REFER TO SITE GRADING PLAN SHEET C4.00 FOR FINISH GRADING INFORMATION AND SITE DRAINAGE PLAN SHEET 4.10 FOR DRAINAGE INFORMATION.
- D. PIPE LENGTHS NOTED MAY DIFFER FROM ACTUAL INSTALLED LENGTH AND ARE PROVIDED FOR REFERENCE.
- E. ALL SEWER & GRAVITY IRRIGATION PIPE SHALL BE BELL AND SPIGOT, PVC, SDR 35, ASTM D-3034, UNLESS SPECIFICALLY NOTED OTHERWISE.
- F. ALL PIPE FITTINGS, BENDS AND JOINTS SHALL BE WATER TIGHT. PROVIDE REQUIRED FITTINGS TO TRANSITION BETWEEN PIPE MATERIAL, SIZE AND TYPE.
- G. ALIGNMENT REFERENCES PIPE AND DITCH CENTERLINE.
- H. EXISTING AND PROPOSED CONTOURS ARE AT 1-FT INTERVALS.
- I. SPOT ELEVATIONS INDICATE FINISH GRADE SURFACE AS FOLLOWS:
FL = FLOW LINE
- J. GRAVITY IRRIGATION SERVICE TO DOWNSTREAM USERS SHALL NOT BE INTERRUPTED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY MEANS OF CONVEYANCE, IN ADHERENCE TO LOCAL STANDARDS, UNTIL NEW DITCH AND IRRIGATION TUNNELS ARE COMPLETED.
- K. NOT ALL KEYNOTES ARE USED ON EACH SHEET.

Gravity Irrigation Keynotes:

- 1. CONNECT TO EXISTING 12-IN GRAVITY IRRIGATION PVC PIPE IN THIS APPROXIMATE LOCATION. PROVIDE AND INSTALL VERTICAL BEND AND FITTING(S) AS REQUIRED (45-DEG MAX.) TO ACHIEVE 18-IN MIN. COVER OVER TOP OF PIPE.
- 2. INSTALL CAP AT FUTURE STUB PIPE END TO PROVIDE WATER TIGHT SEAL.
- 3. INSTALL 12" DEPTH OF $D_{90} = 0.50$ ANGULAR RIP-RAP ABOVE DRAINAGE GEOTEXTILE PER SPECIFICATION SECTION 31 20 00 AT PIPE NILET/OUTLET. TOP OF RIP-RAP SHALL BE FLUSH WITH BOTTOM OF DITCH AND NOT IMPEDE FLOW.
- 4. CONSTRUCT OPEN IRRIGATION DITCH PER DETAIL 7/C5.50.
- 5. REGROUT NEW PIPE IN EXISTING PENETRATION, CORE DRILL AS REQUIRED TO ACCOMMODATE REVISED ORIENTATION.
- 6. POTABLE/NON-POTABLE WATER SEPARATION REQUIRED, REFER TO DOMESTIC WATER NOTES 10 & 11/C3.00.
- 7. C900 WATER CLASS PVC PIPE USED FOR GRAVITY IRRIGATION SHALL BE PRESSURE TESTED PER RSPWC SECTION 401. CONTRACTOR SHALL COORDINATE TESTING PLAN AND PROCEDURE WITH ENGINEER PRIOR TO CONSTRUCTION.

Sheet Notes:

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Project:
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1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

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Project No: 20-042
Date: 03/14/2022
Checked By: ECBS
Drawn By: CRUL

GRAVITY IRRIGATION PLAN - AREA A



BID SET

Sheet No:
C5.10

Sheet No: 20-042
Date: 03/14/2022
Checked By: ECBS
Drawn By: CRUL

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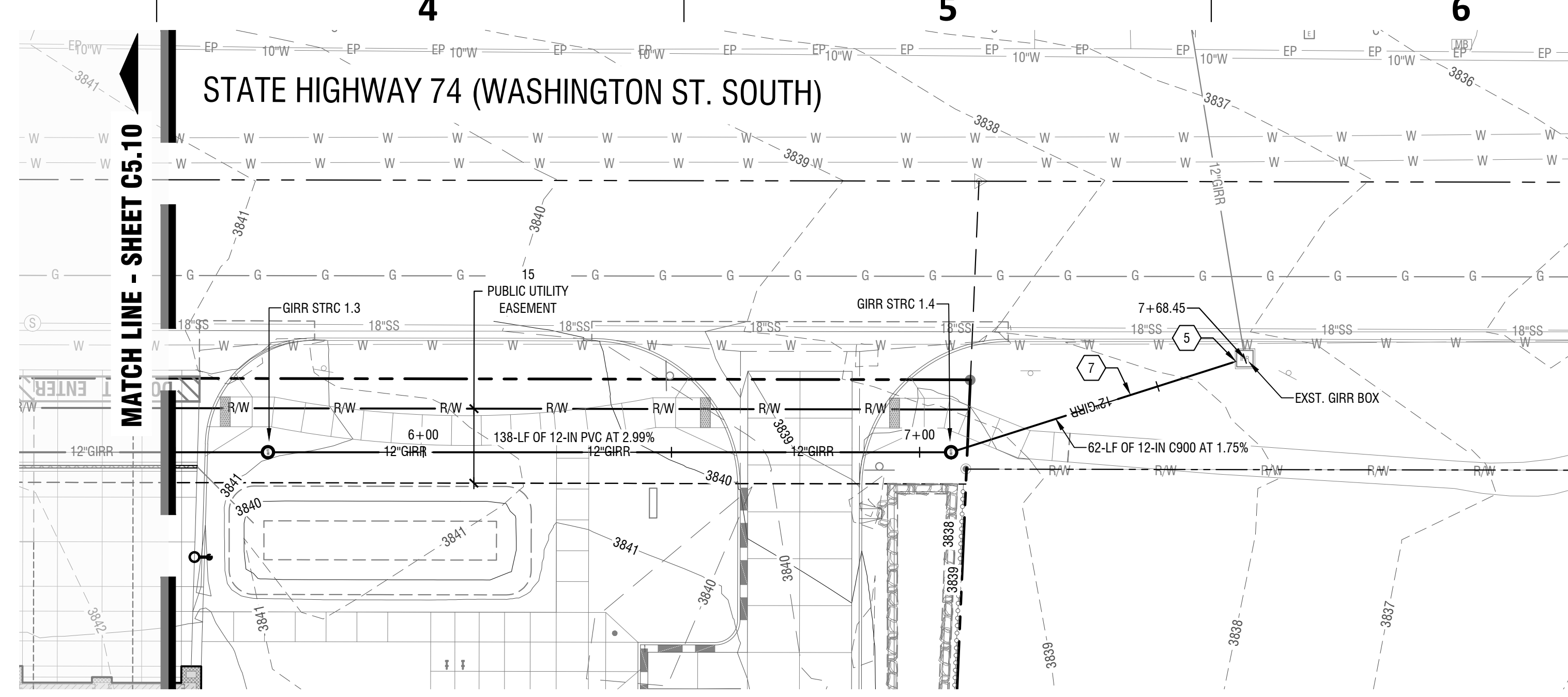
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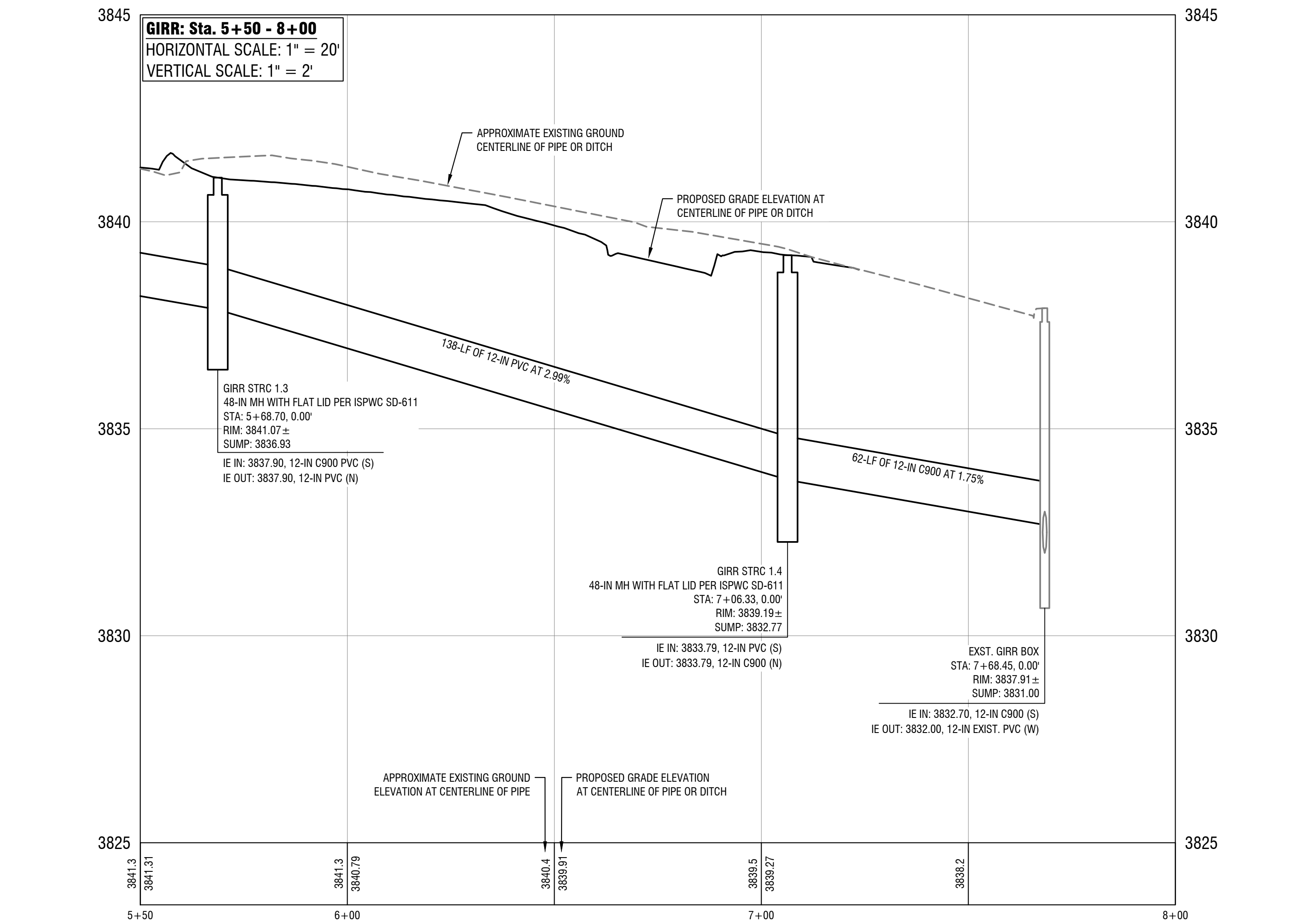
C

D

E



Gravity Irrigation Plan - Area B
 Horizontal Scale: 1" = 20'



Sheet Notes:

- A. CONTRACTOR SHALL COMPLY WITH ALL NOTES ON SHEET C3.00.
- B. UTILITY CONTRACTORS ARE RESPONSIBLE FOR VERIFYING LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND TIE IN POINTS PRIOR TO CONSTRUCTION. IF CONFLICTS OR DISCREPANCIES EXIST, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR ADDITIONAL DIRECTION.
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- F. ALL PIPE FITTINGS, BENDS AND JOINTS SHALL BE WATER TIGHT. PROVIDE REQUIRED FITTINGS TO TRANSITION BETWEEN PIPE MATERIAL SIZE AND TYPE.
- G. ALIGNMENT REFERENCES PIPE AND DITCH CENTERLINE.
- H. EXISTING AND PROPOSED CONTOURS ARE AT 1-FT INTERVALS.
- I. SPOT ELEVATIONS INDICATE FINISH GRADE SURFACE AS FOLLOWS:
 FL = FLOW LINE
- J. GRAVITY IRRIGATION SERVICE TO DOWNSTREAM USERS SHALL NOT BE INTERRUPTED DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY MEANS OF CONVEYANCE, IN ADHERENCE TO LOCAL STANDARDS, UNTIL NEW DITCH AND IRRIGATION TILING ARE COMPLETED.
- K. NOT ALL KEYNOTES ARE USED ON EACH SHEET.

Gravity Irrigation Keynotes:

- 1. CONNECT TO EXISTING 12-IN GRAVITY IRRIGATION PVC PIPE IN THIS APPROXIMATE LOCATION. PROVIDE AND INSTALL VERTICAL BEND AND FITTING(S) AS REQUIRED (45-DEG MAX.) TO ACHIEVE 18-IN MIN. COVER OVER TOP OF PIPE.
- 2. INSTALL CAP AT FUTURE STUB PIPE END TO PROVIDE WATER TIGHT SEAL.
- 3. INSTALL 12" DEPTH OF D₉₀=0.50° ANGULAR RIP-RAP ABOVE DRAINAGE GEOTEXTILE PER SPECIFICATION SECTION 31 20 00 AT PIPE NILET/OUTLET. TOP OF RIP-RAP SHALL BE FLUSH WITH BOTTOM OF DITCH AND NOT IMPEDE FLOW.
- 4. CONSTRUCT OPEN IRRIGATION DITCH PER DETAIL 7/C5.50.
- 5. REGROUT NEW PIPE IN EXISTING PENETRATION. CORE DRILL AS REQUIRED TO ACCOMMODATE REVISED ORIENTATION.
- 6. POTABLE/NON-POTABLE WATER SEPARATION REQUIRED, REFER TO DOMESTIC WATER NOTES 10 & 11/C3.00.
- 7. C900 WATER CLASS PVC PIPE USED FOR GRAVITY IRRIGATION SHALL BE PRESSURE TESTED PER ISPPWC SECTION 401. CONTRACTOR SHALL COORDINATE TESTING PLAN AND PROCEDURE WITH ENGINEER PRIOR TO CONSTRUCTION.



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STAMP:



Project:
TWIN FALLS FIRE STATION 3
 1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Revisions: △

1	CITY COMMENTS	4/11/2022 & 5/19/2022
2	ADDENDUM 2	5/19/2022

Project No:	20-042
Date:	03/14/2022
Checked By:	ECBS
Drawn By:	CRJL

Sheet Name:

**GRAVITY IRRIGATION
 PLAN - AREA B**



BID SET

Sheet No:

C5.11

STAMP:



Revisions: Δ

1	CITY COMMENTS	4/11/2022 & 5/19/2022
2	ADDENDUM 2	5/19/2022

Project No:	20-042
Date:	03/14/2022
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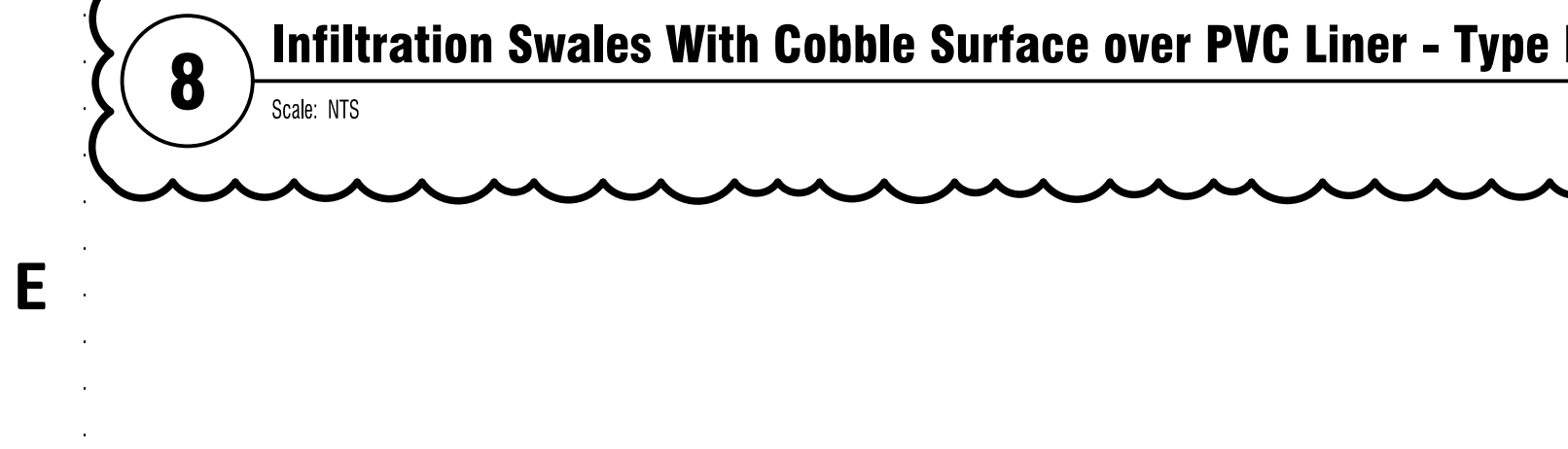
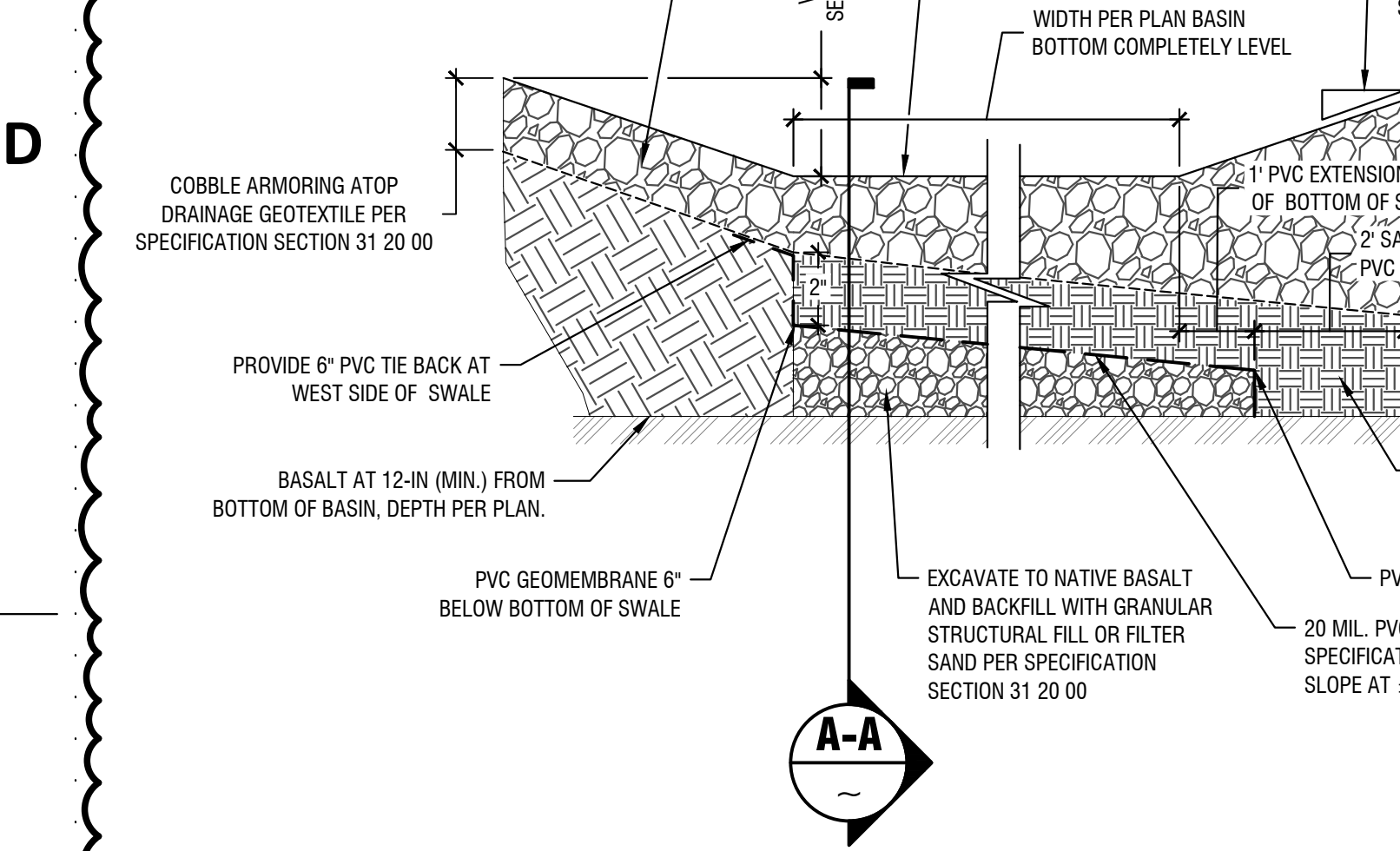
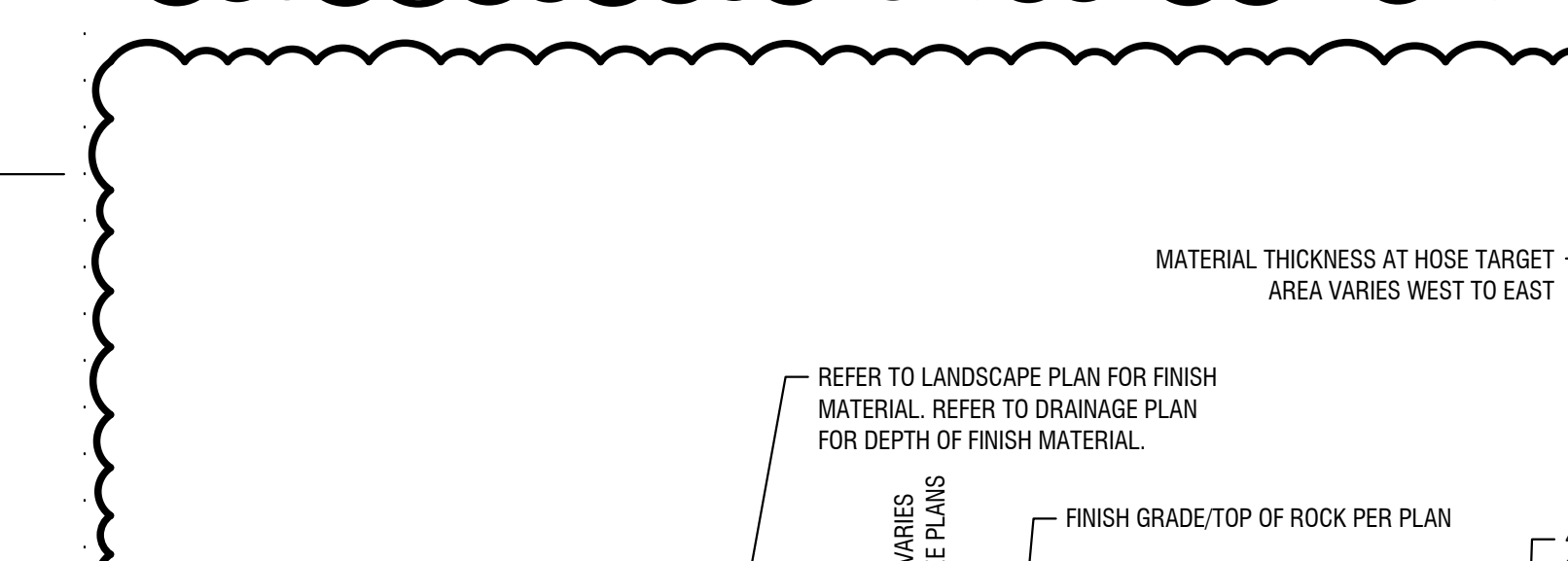
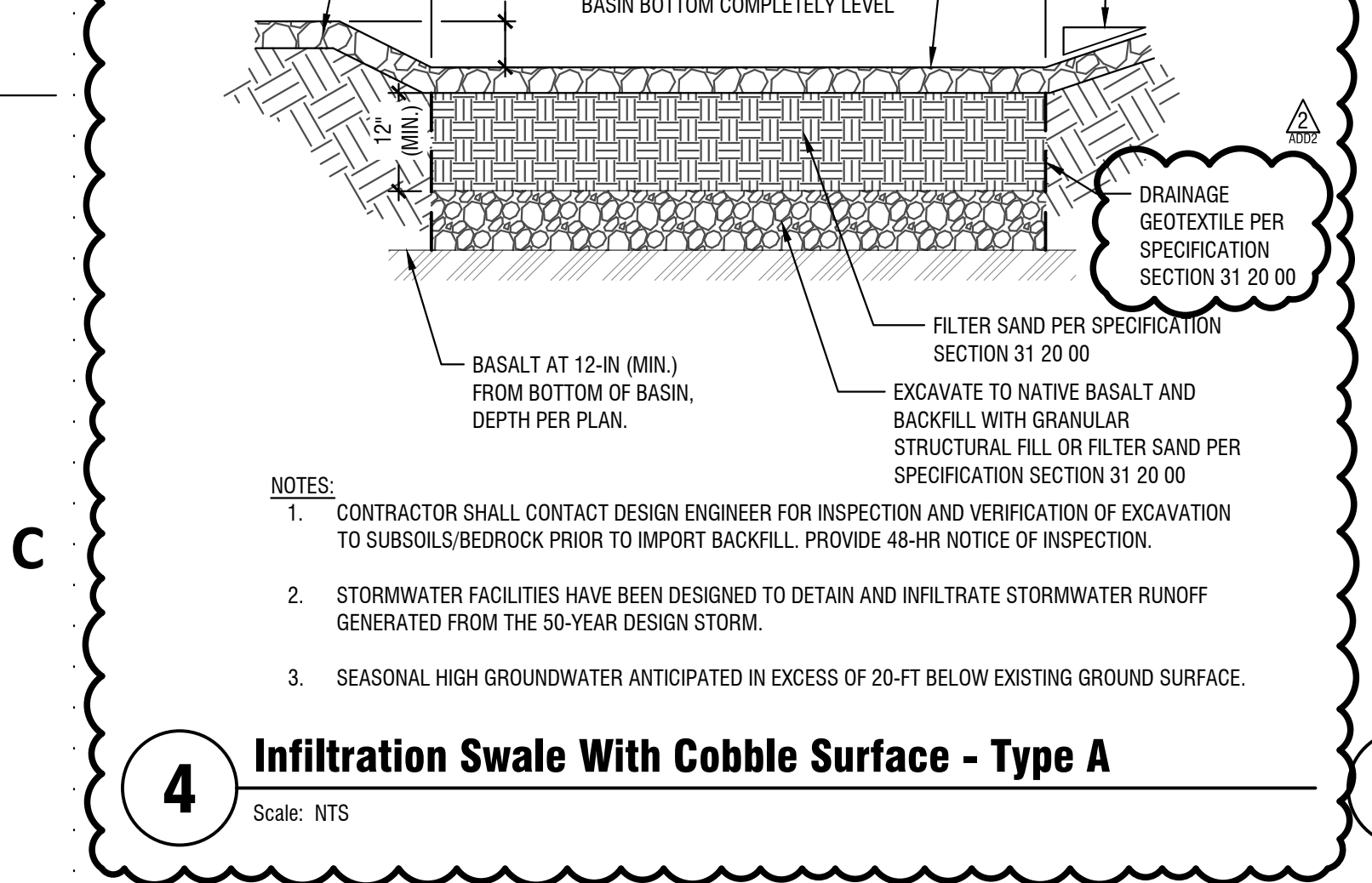
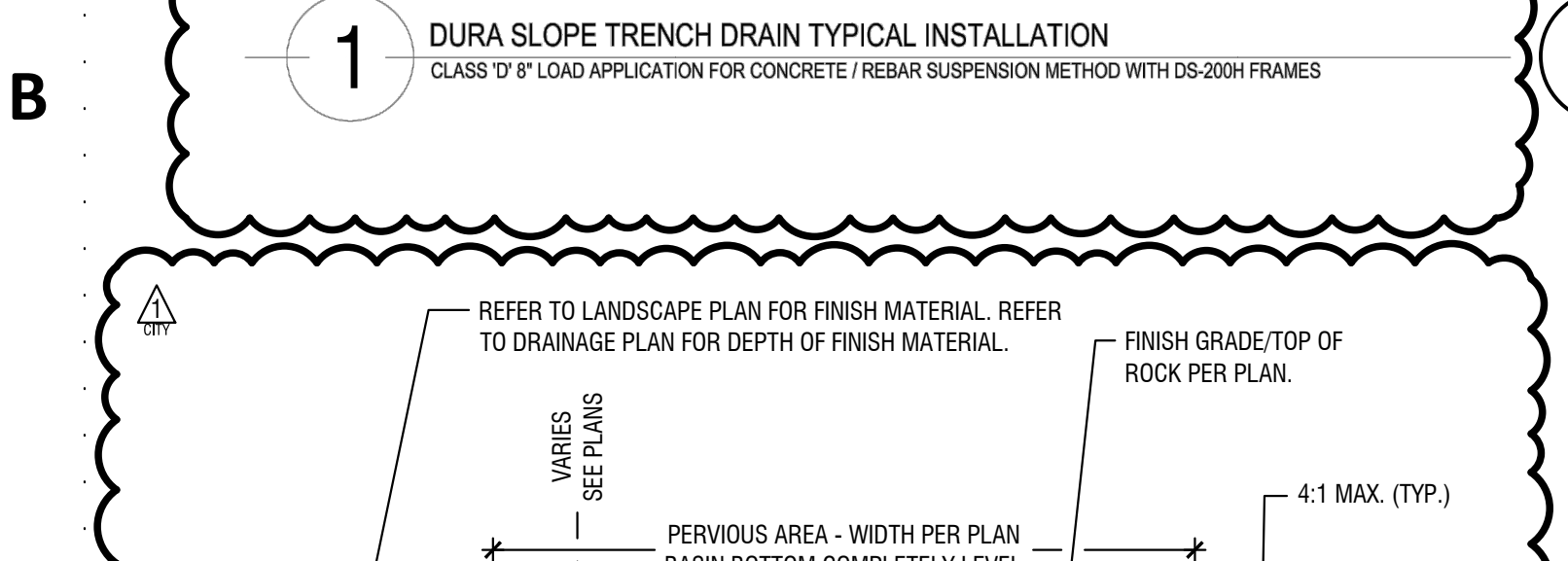
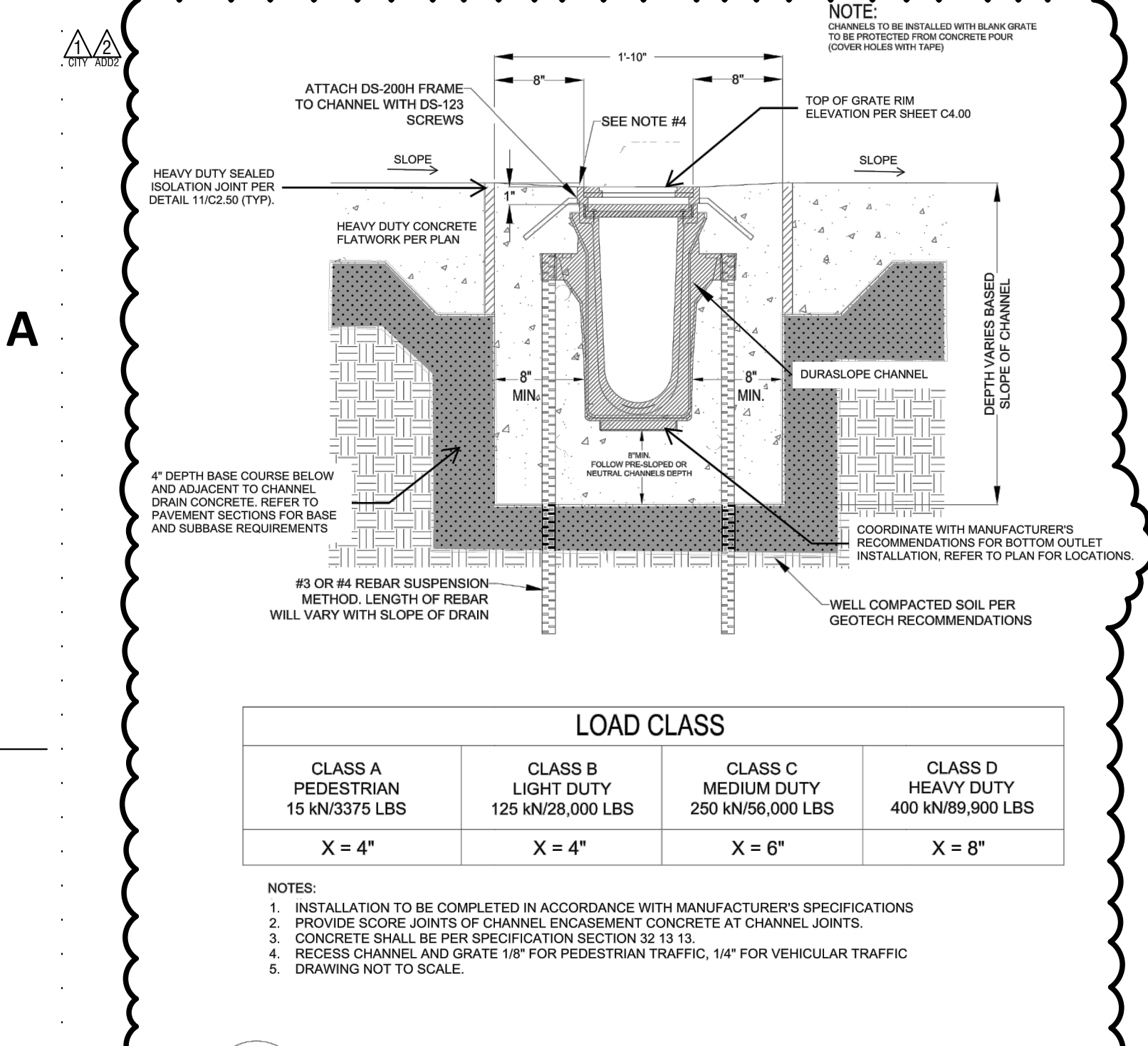
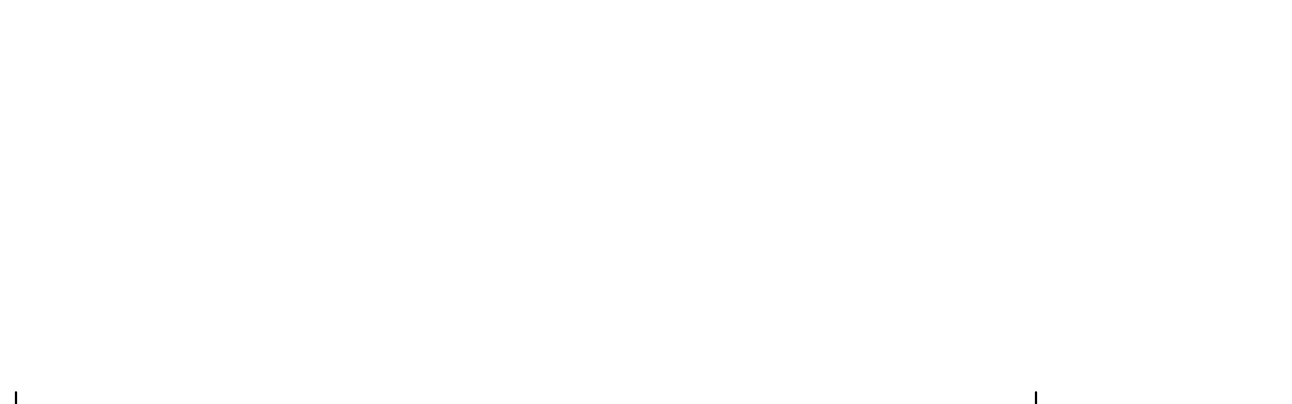
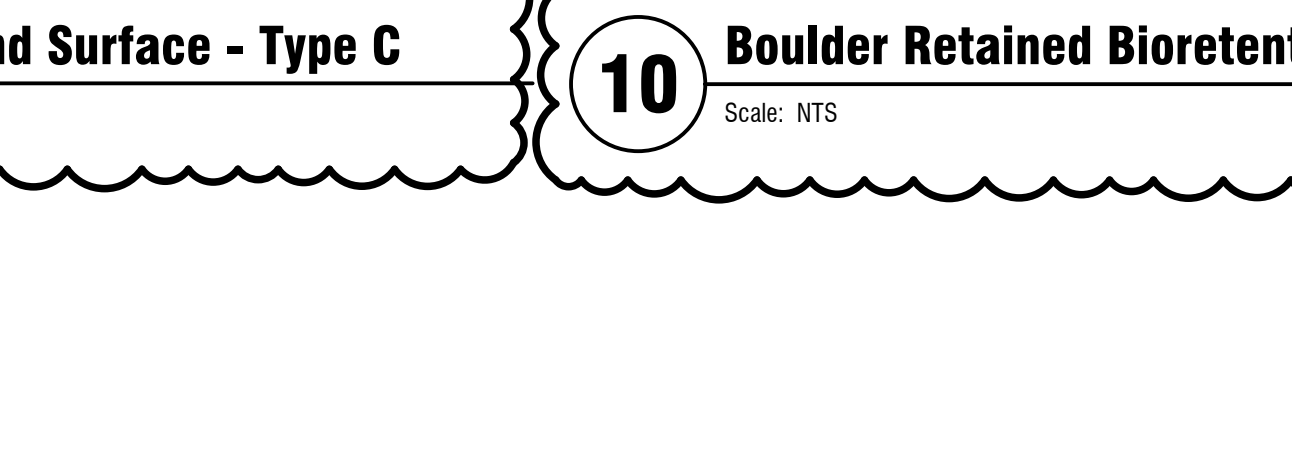
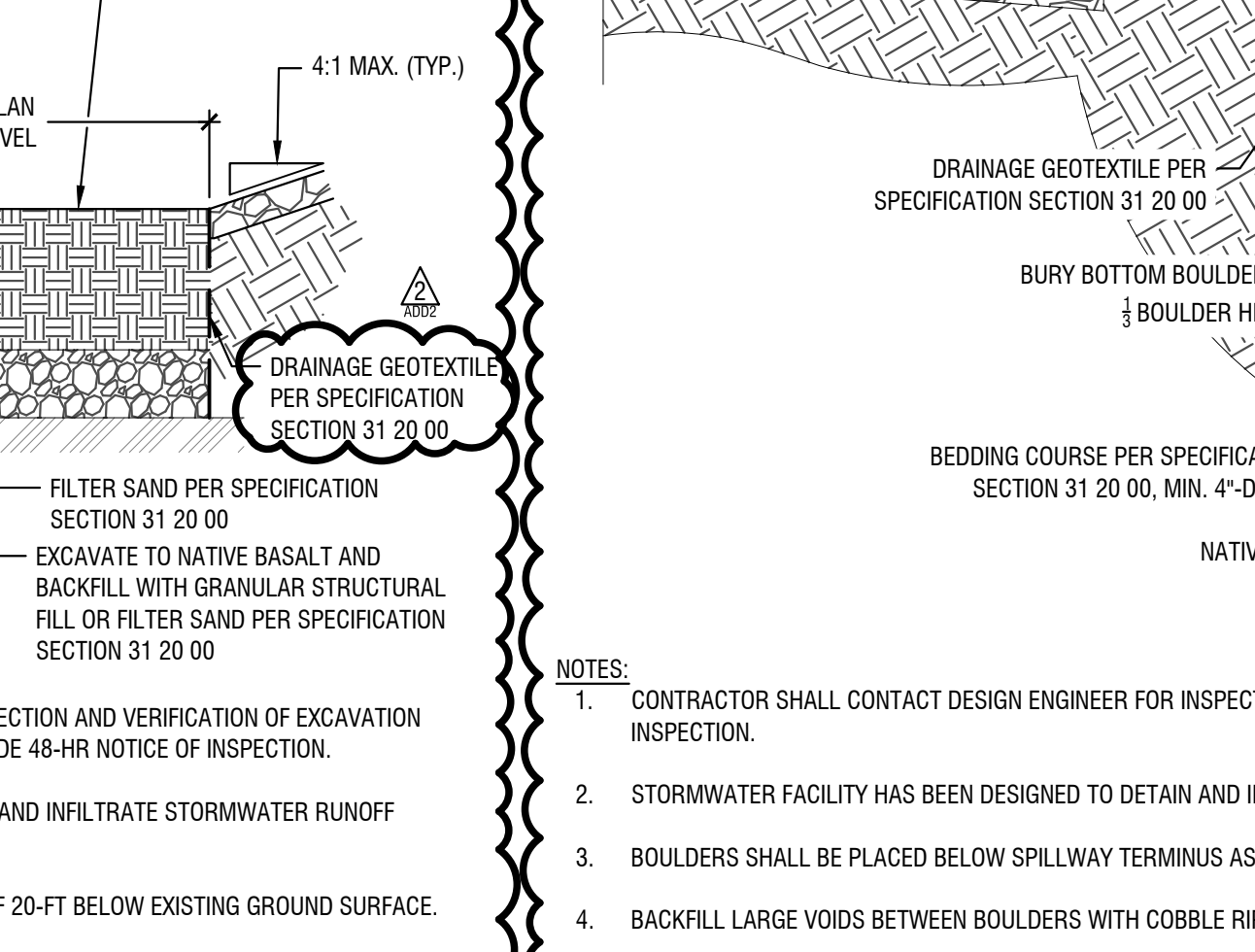
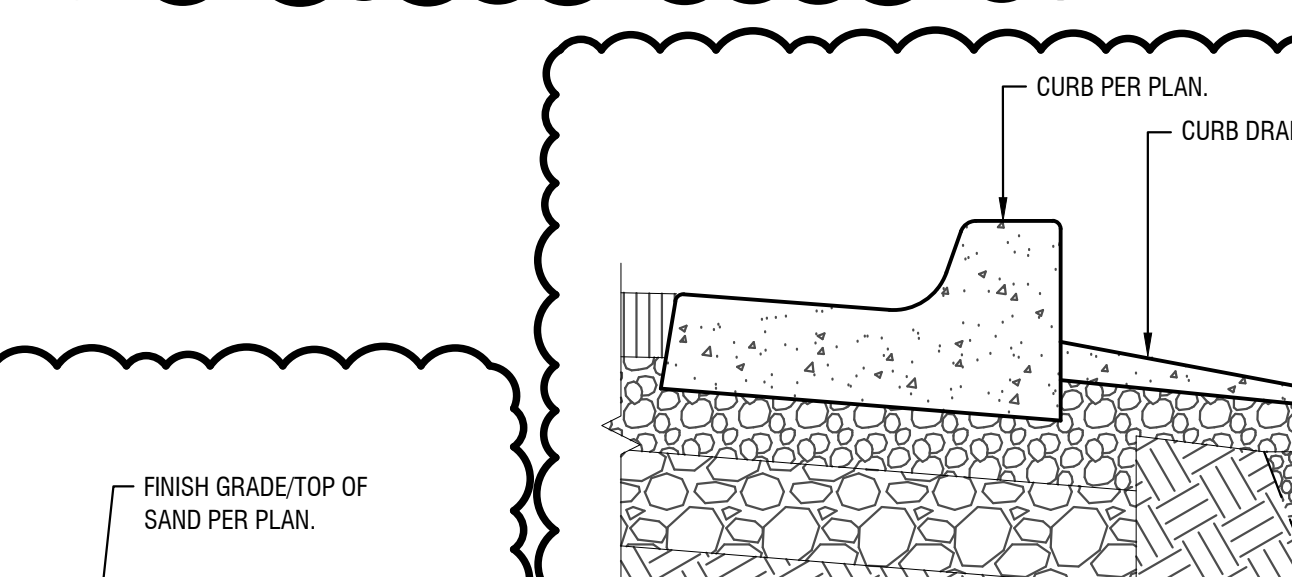
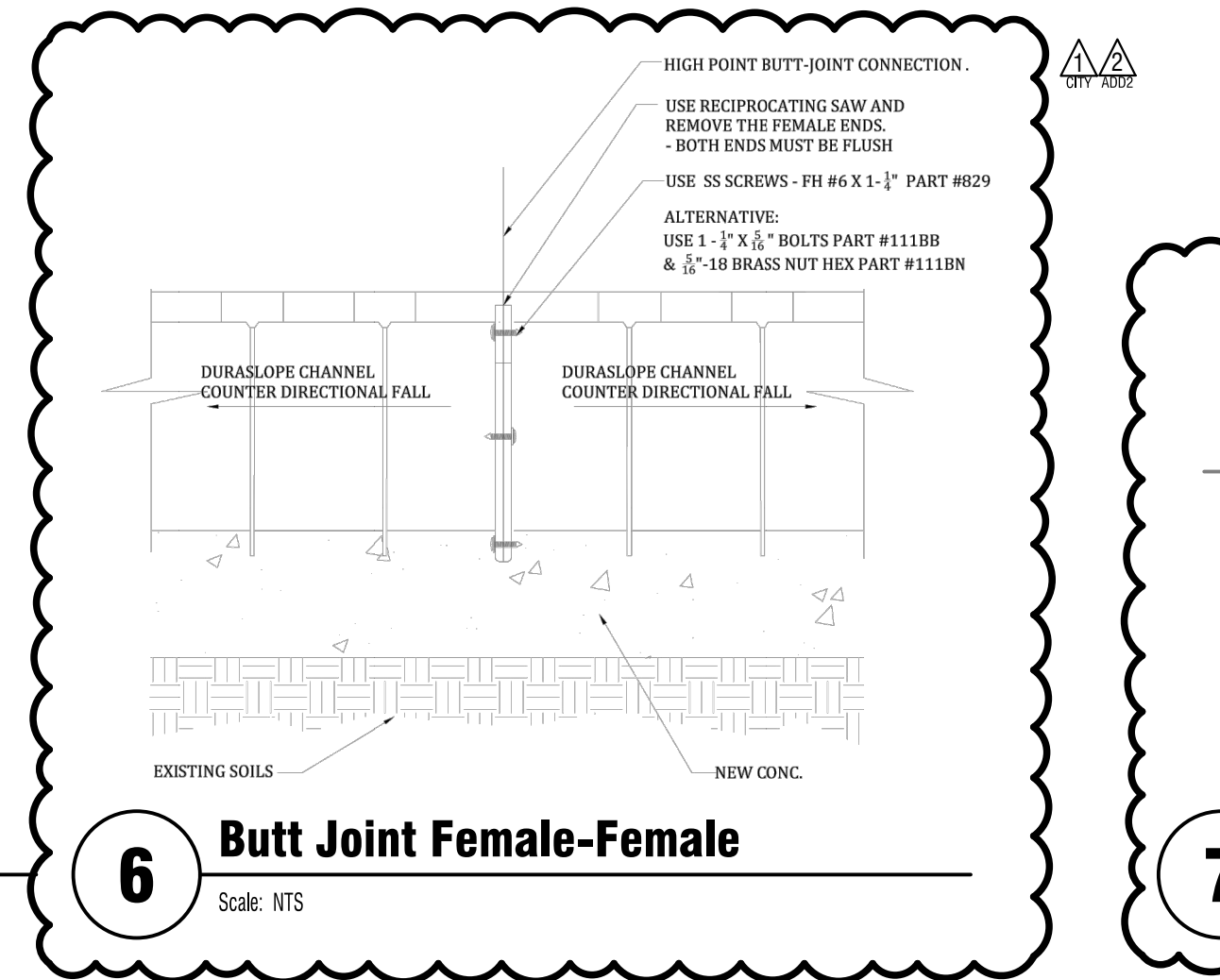
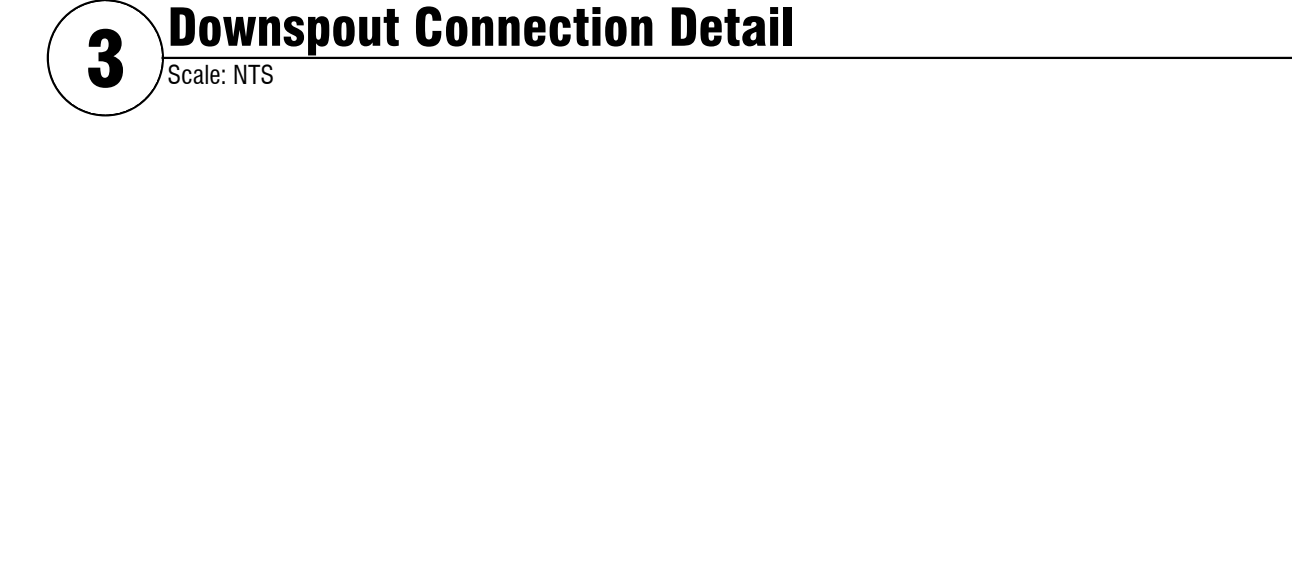
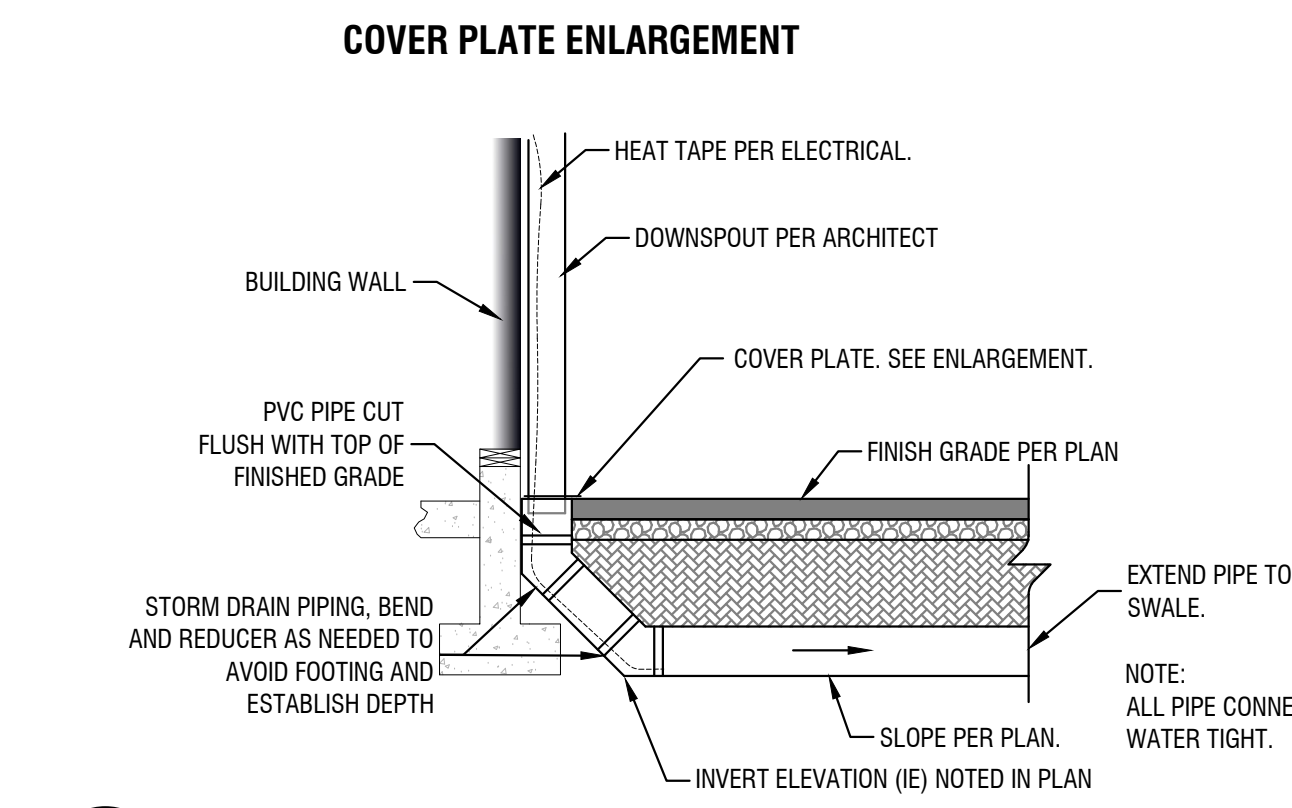
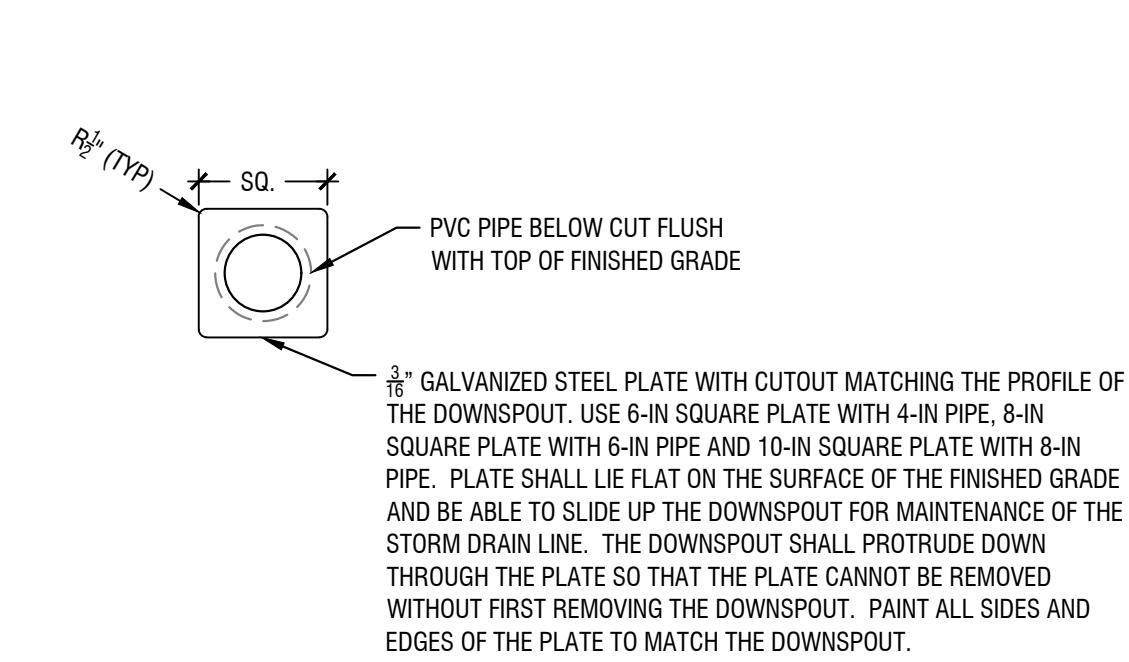
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DRAINAGE & UTILITY DETAILS

Sheet No:

C5.50

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LOAD CLASS

CLASS A	CLASS B	CLASS C	CLASS D
PEDESTRIAN 15 kN/375 LBS	LIGHT DUTY 125 kN/28,000 LBS	MEDIUM DUTY 250 kN/56,000 LBS	HEAVY DUTY 400 kN/89,500 LBS
X = 4"	X = 4"	X = 6"	X = 8"

- NOTES:
- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - PROVIDE SCREWS JOINTS OF CHANNEL ENCASEMENT CONCRETE AT CHANNEL JOINTS.
 - CONCRETE SHALL BE PER SPECIFICATION SECTION 32 13 13.
 - RECESS CHANNEL AND GRATE 1/8\"/>

1 DURA SLOPE TRENCH DRAIN TYPICAL INSTALLATION
CLASS 17\"/>

2 Cleanout Detail
Scale: NTS

3 Downspout Connection Detail
Scale: NTS

4 Infiltration Swale With Cobble Surface - Type A
Scale: NTS

5 Gutter Downspout Basin
Scale: NTS

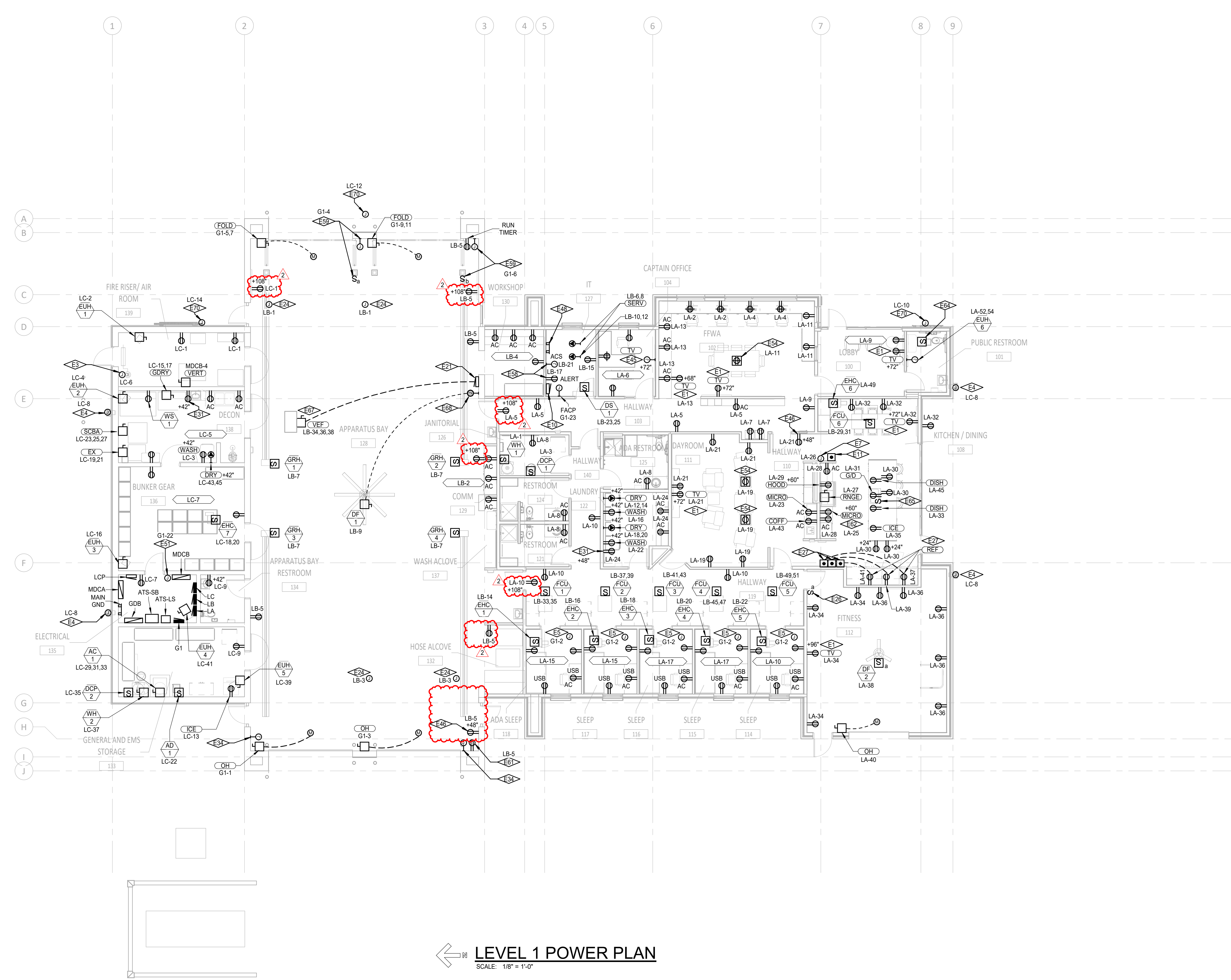
6 Butt Joint Female-Female
Scale: NTS

7 Typical Ditch Section
Scale: NTS

8 Infiltration Swales With Cobble Surface over PVC Liner - Type B
Scale: NTS

9 Infiltration Swales With Filter Sand Surface - Type C
Scale: NTS

10 Boulder Retained Bioretention Swale Basin
Scale: NTS



LEVEL 1 POWER PLAN
SCALE: 1/8" = 1'-0"

KEYNOTES	
E1	PROVIDE 2-GANG RECESSED WALL BOX (LEGRAND EFSB2 OR EQUIVALENT) FOR POWER AND DATA TO TV AT INDICATED HEIGHT. INSTALL DUPLEX RECEPTACLE IN WALL BOX. COORDINATE WITH TECHNOLOGY CONTRACTOR FOR AV REQUIREMENTS.
E3	PROVIDE 120V CONNECTION TO MOTORIZED DAMPER. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL CONTRACTOR.
E4	PROVIDE 120V CONNECTION TO ELECTRIC HEAT TRACE FOR DOWNSPOUT INDICATED. PROVIDE 30-MILLIAMP TRIP GFCI CIRCUIT BREAKER FOR CIRCUIT INDICATED.
E5	PROVIDE 120V CONNECTION TO FIRE ALARM SOUNDER BASE. COORDINATE EXACT REQUIREMENTS WITH FIRE ALARM VENDOR.
E7	PROVIDE 120V CONNECTION TO MOTORIZED GAS SHUTOFF VALVE. TIE INTO EMERGENCY RESPONSE PANEL FOR CONTROL.
E10	FURNISH AND INSTALL NEMA 1 ENCLOSURE WITH LOCKABLE HINGED COVER FOR KITCHEN EQUIPMENT CONTACTORS. REFER TO DETAILS FOR ELECTRICAL REQUIREMENTS.
E11	PROVIDE PUSHBUTTON RESET TO RE-ACTIVATE KITCHEN CIRCUITS SHUT OFF VIA EMERGENCY RESPONSE PANEL. COORDINATE REQUIREMENTS WITH ALERTING SYSTEM INSTALLER.
E21	MAGNEGRIP DIESEL EXHAUST CONTROL PANEL. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN. COORDINATE REQUIREMENTS WITH EQUIPMENT VENDOR.
E24	PROVIDE SURFACE MOUNTED JUNCTION BOX AND 30A SO CORD REEL WITH SIMPLEX RECEPTACLE AND ASSOCIATED STRAIN RELIEF MOUNTED AT APPROXIMATELY 6' AFF FOR SHORE POWER AT APPROXIMATE LOCATION INDICATED. ROUTE (1) 1" CONDUIT WITH 2#10 AND #10 GND TO CORD REEL. COORDINATE INSTALLATION WITH OWNER PRIOR TO ROUGH-IN. REFER TO SURFACE MOUNTED CORD REEL DETAIL.
E26	PROVIDE 120V CONNECTION TO CEILING FAN AND ASSOCIATED CONTROLLER. COORDINATE EXACT REQUIREMENTS WITH VENDOR SHOP DRAWINGS AND CUT SHEET.
E27	PROVIDE REMOTE GFI RESET PUSH BUTTON TO COMPLY WITH NEC REQUIREMENTS FOR ACCESSIBILITY OF GFCI DEVICES.
E31	PROVIDE DUPLEX RECEPTACLE FOR ELECTRIC SOAP INJECTOR. MOUNT ADJACENT TO SOAP INJECTOR EQUIPMENT. COORDINATE MOUNTING HEIGHT PRIOR TO ROUGH-IN.
E34	PROVIDE SINGLE GANG J-BOX AT 48" AFF WITH 1/2" CONDUIT ROUTED TO OVERHEAD DOOR OPERATOR. COORDINATE WITH OVERHEAD DOOR SHOP DRAWINGS.
E45	PROVIDE 2-GANG RECESSED WALL BOX (LEGRAND EFSB2 OR EQUIVALENT) WITH COVERPLATES FOR FUTURE TV POWER AND DATA AT INDICATED HEIGHT. COORDINATE LOCATION WITH OWNER. ROUTE CONDUIT WITH PULLSTRING 10' ABOVE ACCESSIBLE CEILING FOR FUTURE CONDUCTORS. COORDINATE LOCATION WITH OWNER.
E46	PROVIDE RECEPTACLE FOR TIMELOCK. COORDINATE LOCATION WITH OWNER.
E48	PROVIDE GROUND BAR. REFER TO DETAILS FOR REQUIREMENTS. REFER TO TECHNOLOGY DRAWINGS FOR LOCATION.
E51	FURNISH AND INSTALL GENERATOR ANNUNCIATOR PANEL IN ELECTRICAL ROOM. COORDINATE FINAL LOCATION WITH OWNER.
E54	FURNISH AND INSTALL RECESSED FLOOR BOX (HUBBELL SYSTEMONE OR EQUIVALENT). PROVIDE ALL INTERIOR FITTINGS REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE FINAL LOCATION WITH FURNITURE INSTALLER AND COVERPLATE FINISH WITH OWNER.
E58	PROVIDE CONNECTION TO IT PANELS. REFER TO TECHNOLOGY DRAWINGS.
E59	PROVIDE 120V CONNECTION TO FOUR-FOLD DOOR CONTROL PANEL AND ASSOCIATED CONTROLLER AT APPROXIMATE LOCATION. COORDINATE WITH VENDOR SHOP DRAWINGS FOR ADDITIONAL CONDUIT AND WIRING REQUIREMENTS FOR INTERFACE BETWEEN MOTOR, CONTROLLER, AND PHOTO-EYE SENSORS.
E61	PROVIDE RECEPTACLE FOR HOSE WASHER. COORDINATE REQUIREMENTS WITH EQUIPMENT PROVIDER.
E62	PROVIDE RECESSED RECEPTACLE IN CASEWORK ABOVE COUNTER. COORDINATE WITH CASEWORK INSTALLER.
E64	INTERCONNECT FAN WITH LOCAL LIGHTING CONTROLS TO CONTROL FAN WITH LIGHTS.
E65	PNEUMATIC SWITCH FOR GARBAGE DISPOSAL PROVIDED AND INSTALLED ON COUNTERTOP BY PLUMBING CONTRACTOR. PROVIDE ROUGH-IN AS REQUIRED.
E67	ROUTE POWER TO DIESEL EXHAUST FAN VIA MAGNEGRIP EXHAUST CONTROL PANEL IN APPARATUS BAY. COORDINATE REQUIREMENTS WITH EQUIPMENT VENDOR.
E68	INSTALL JUNCTION BOX AT INDICATED LOCATION FOR APPARATUS BAY FAN LOW-VOLTAGE CONTROLLER FURNISHED WITH FAN. ROUTE 3/4" CONDUIT FROM CONTROLLER TO FAN. COORDINATE WITH MECHANICAL CONTRACTOR.
E70	PROVIDE 120V CONNECTION TO INTERNALLY LIT SIGN. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH VENDOR SHOP DRAWINGS. SIGN TO BE CONTROLLED WITH EXTERIOR BUILDING MOUNTED LIGHTINGS. CONTROL SEQUENCE "LOB".

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2 Addendum 02 05/20/22

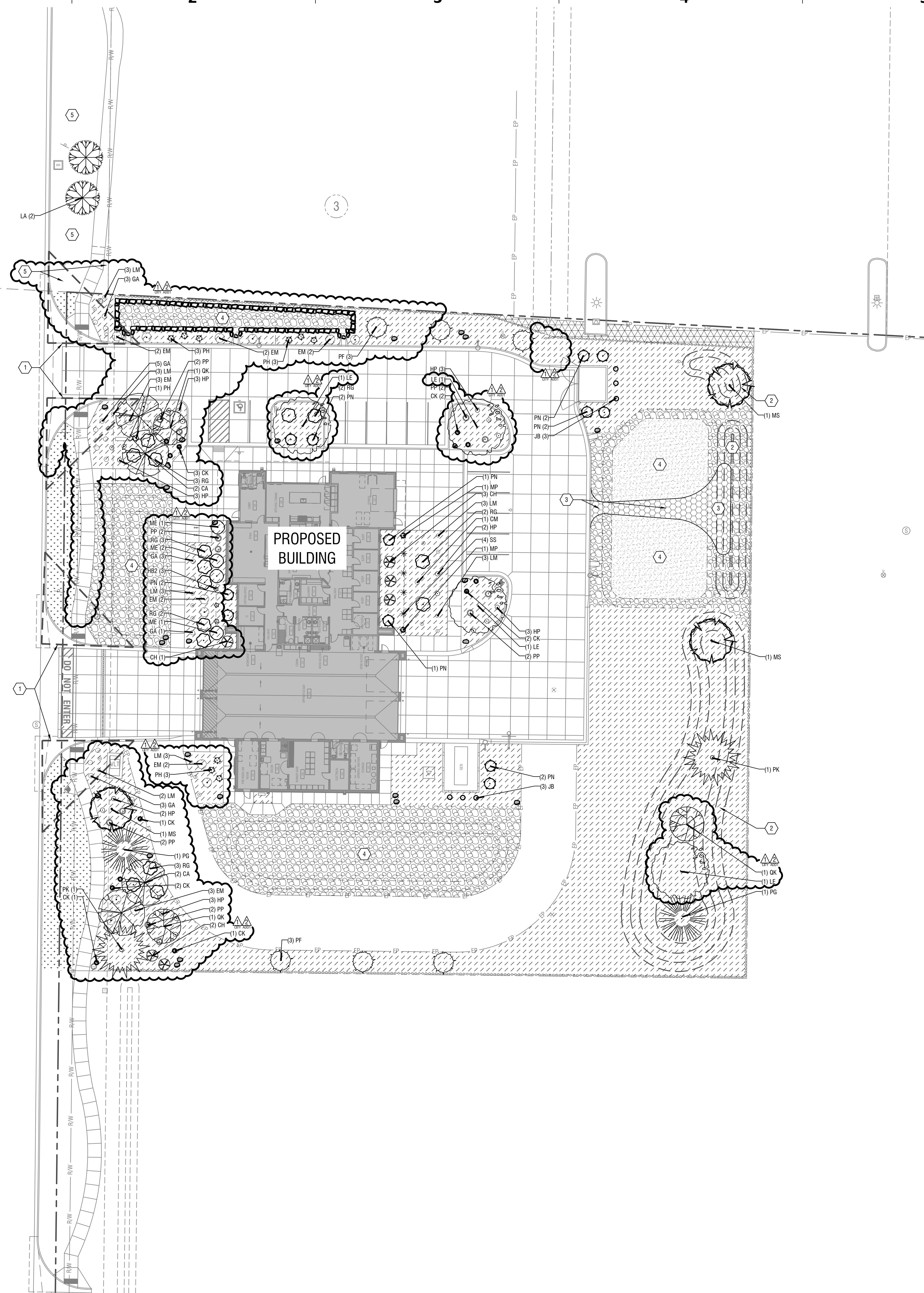
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POWER PLAN

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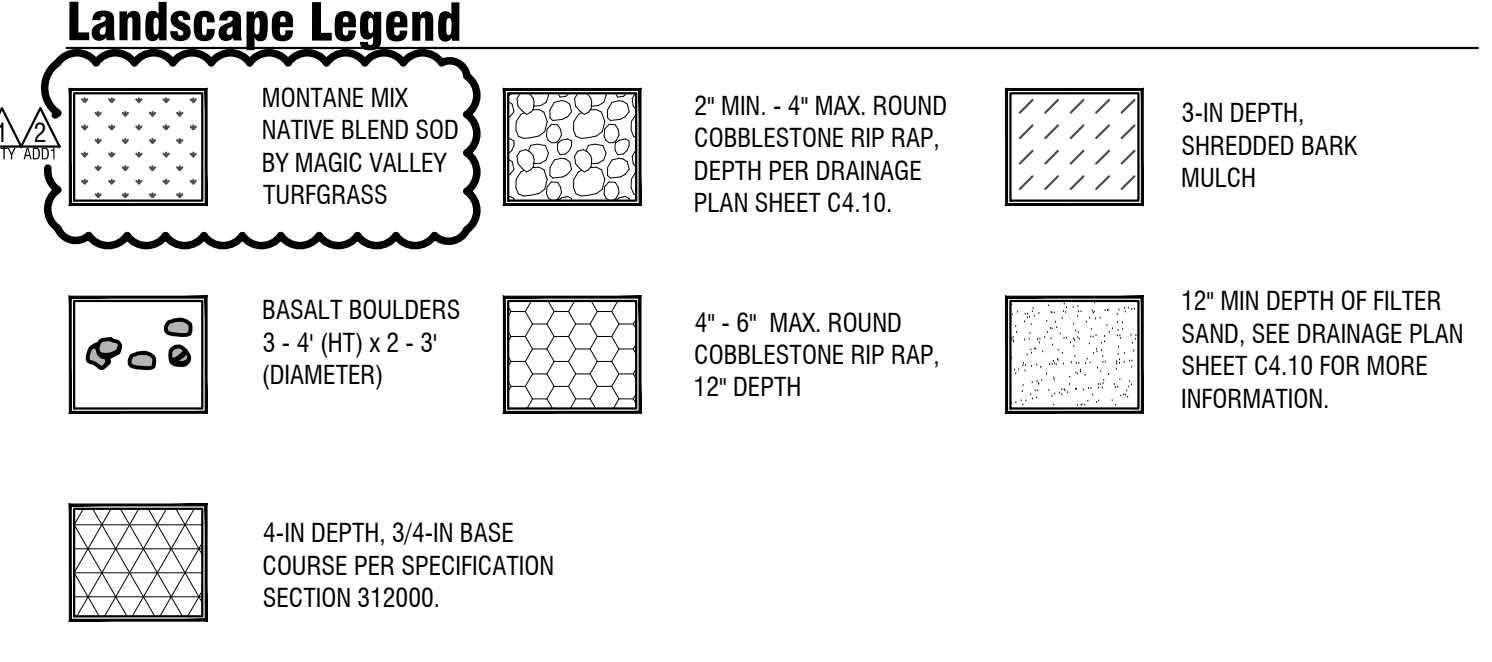
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- Landscape Notes:**
- CONTRACTOR SHALL REPORT TO LANDSCAPE ARCHITECT ALL CONDITIONS WHICH IMPAIR AND/OR PREVENT THE PROPER EXECUTION OF THIS WORK, PRIOR TO BEGINNING WORK.
 - FINISH GRADES TO BE SMOOTH AND EVEN GRADIENTS WITH POSITIVE DRAINAGE IN ACCORDANCE WITH SITE GRADING PLAN. REMOVE RIDGES AND FILL DEPRESSIONS, AS REQUIRED TO MEET FINISH GRADES. PLACE 3" OF SHREDED BARK MULCH OVER SUBGRADE SOIL TO ACHIEVE FINISH GRADE. FINISH GRADE RELATED TO ADJACENT SITE ELEMENTS SHALL BE:
 - B.A. 1-INCH BELOW TOP OF ADJACENT PAVEMENT, VALVE BOX, VAULT, ETC.
 - B.B. 3-INCHES BELOW TOP OF CURB UNLESS NOTED OTHERWISE.
 - ALL PLANTING BEDS SHALL HAVE A MINIMUM OF 18" OF TOPSOIL, SOD AREAS A MINIMUM OF 12" OF TOPSOIL. SPREAD, COMPACT AND FINE GRADE TOPSOIL TO A SMOOTH AND UNIFORM GRADE.
 - RE-USE EXISTING SURFACE TOPSOIL WHERE POSSIBLE. VERIFY SUITABILITY OF SURFACE SOIL TO PRODUCE TOPSOIL MEETING REQUIREMENTS AND AMEND WHEN NECESSARY. TOPSOIL SHALL BE A LOOSE, FRABLE, SANDY LOAM, CLEAN AND FREE OF TOXIC MATERIALS, NOXIOUS WEEDS, WEED SEEDS, ROCKS, GRASS OR OTHER FOREIGN MATERIAL AND A PH OF 5.5 TO 7.0. IF ON-SITE TOPSOIL DOES NOT MEET THESE MINIMUM STANDARDS, CONTRACTORS ARE RESPONSIBLE TO EITHER: A) PROVIDE APPROVED IMPORTED TOPSOIL, OR B) IMPROVE ON-SITE TOPSOIL WITH METHODS APPROVED BY LANDSCAPE ARCHITECT. SUPPLEMENT WITH IMPORTED TOPSOIL WHEN QUANTITIES ARE INSUFFICIENT. CLEAN TOPSOIL OF ROOTS, PLANTS, SOOTS, STONES, CLAY LUMPS AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
 - IF IMPORTED TOPSOIL FROM OFF-SITE SOURCES IS REQUIRED, PROVIDE NEW TOPSOIL THAT IS FERTILE, FRABLE, NATURAL LOAM, SURFACE SOIL, REASONABLY FREE OF SUBSOIL, CLAY LUMPS, BRUSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS, STUMPS, STONES LARGER THAN 2 INCHES IN ANY DIMENSION, AND OTHER EXTRANEOUS OR TOXIC MATTER HARMFUL TO PLANT GROWTH. OBTAIN TOPSOIL FROM LOCAL SOURCES OR FROM AREAS HAVING SIMILAR SOIL CHARACTERISTICS TO THAT FOUND AT PROJECT SITE. OBTAIN TOPSOIL ONLY FROM NATURALLY, WELL-DRAINING SITES WHERE TOPSOIL OCCURS IN A DEPTH OF NOT LESS THAN 4 INCHES.
 - ALL LANDSCAPE AREAS SHALL BE WEED FREE AT THE TIME OF LANDSCAPE INSTALLATION. REMOVE ALL ROOTS, WEEDS, ROCKS AND FOREIGN MATERIAL ON THE SURFACE.
 - NEW TREE PLANTING, SEE SHEET L1.50. CONTRACTOR SHALL STAKE ALL TREES DEEMED NECESSARY, I.E., FROM BEING BLOWN OVER, PLANTED WITH LOOSE ROOT BALL, ETC. CONTRACTOR'S OPTION.
 - NEW SHRUB PLANTING, SEE DETAIL L1.50.
 - ALL PLANT MATERIAL SHALL CONFORM TO THE AMERICAN NURSERYMAN STANDARDS FOR TYPE AND SIZE SHOWN. PLANTS WILL BE REJECTED IF NOT IN A SOUND AND HEALTHY CONDITION.
 - ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF SUBSTANTIAL COMPLETION. REPLACE ALL PLANT MATERIAL FOUND DEAD OR NOT IN A HEALTHY CONDITION IMMEDIATELY WITH THE SAME SIZE AND SPECIES AT NO COST TO THE OWNER.
 - TREE PIT BACKFILL, PLANTING MIX: BLEND TOPSOIL AND SOIL AMENDMENTS AND FERTILIZER FOR TREE PIT BACKFILL AT THE FOLLOWING RATES: BLEND AMENDMENTS THOROUGHLY WITH SOIL BACKFILL. TREE PITS SHALL BE 5'x1.5' (3.75 CF/ 1.5 CY).
 - L.A.A. APPLICATION RATES: HUMIC ACID: 25 LBS PER TREE PIT
 - L.A.B. COMMERCIAL GRADE COMPOST - 10 CUBIC FEET PER TREE PIT
 - L.A.C. PLANTING TABLET FERTILIZER - 4 TABLETS PER TREE PIT
 - L.A.D. CALCIFIED DIATOMACEOUS EARTH - 75 LBS PER TREE PIT
 - SHRUB PIT BACKFILL, PLANTING MIX: BLEND TOPSOIL AND SOIL AMENDMENTS AND FERTILIZER FOR SHRUB PIT BACKFILL AT THE FOLLOWING RATES: BLEND AMENDMENTS WITH THOROUGHLY WITH SOIL BACKFILL. SHRUB PITS SHALL BE 2.5'x1.5' (6.25 CF/ 0.25 CY).
 - M.A.A. APPLICATION RATES: HUMIC ACID: 2 LBS PER SHRUB PIT
 - M.A.B. COMMERCIAL GRADE COMPOST - 2 CUBIC FEET PER SHRUB PIT
 - M.A.C. PLANTING TABLET FERTILIZER - 2 TABLETS PER SHRUB PIT
 - M.A.D. CALCIFIED DIATOMACEOUS EARTH - 15 LBS PER SHRUB PIT
 - IMMEDIATELY CLEAN UP ANY TOPSOIL OR OTHER DEBRIS ON THE SITE CREATED FROM LANDSCAPE OPERATIONS AND DISPOSE OF PROPERLY OFF SITE.
 - CONTRACTOR SHALL SUBMIT MATERIAL SAMPLES FOR LANDSCAPE BARK MULCH TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO PROCUREMENT. LANDSCAPE BOULDERS, PHOTO SUBMITTAL IS ADEQUATE. FOR ROCK MULCH, SUBMIT 1 GALLON BAG SAMPLE TO OWNER.

- Sheet Notes:**
- COORDINATE WITH TWIN FALLS PARKS AND RECREATION FOR MAINTENANCE SPECIFICATIONS.
CONTACT: TODD ANDERSON
208-736-2277
tanderson@tfd.org
 - SEE SHEET L1.50 FOR DETAILS.

- Keynotes:**
- 40' x 40' INTERSECTION CLEAR VISION TRIANGLE
 - 3'-4" LANDSCAPE BERM, MAX 33% SLOPE
 - INSTALL RIP RAP IN THIS AREA OVER DRAINAGE GEOTEXTILE PER SPECIFICATION SECTION 31.20.00.
 - INFILTRATION SWALE, SEE DRAINAGE PLAN SHEET C4.10
 - REPAIR ANY EXISTING LANDSCAPE DISTURBED TO NEW CONDITIONS, MATCH EXISTING.



PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL / COMMON NAME	SIZE	CONTAINER
CA	CERCIS CANADENSIS 'APPALACHIAN RED' / APPALACHIAN RED EASTERN REDBUD	2" CAL.	B&B
LA	LIRIODENDRON TULIPIFERA 'ARNOLO' / ARNOLO TULIP POPLAR	2" CAL.	B&B
LE	LIRIODENDRON TULIPIFERA 'JUS-OC' TM / EMERALD CITY TULIP POPLAR	2" CAL.	B&B
ME	MAGNOLIA X 'GENIE' / GENIE MAGNOLIA	2" CAL.	B&B
OK	QUERCUS ROBUR 'ALBA' 'JFS-KW10X' TM / STREET SPIRE OAK	2" CAL.	B&B

EVERGREEN TREES

BOTANICAL / COMMON NAME	SIZE	CONTAINER
PF	PINUS FLEXILIS 'VANDERWOLF'S PYRAMID' / VANDERWOLF'S PYRAMID LIMBER PINE	6' HT. B&B
PG	PICEA PUNGENS 'GLAUCH' / BLUE COLORADO SPRUCE	6' HT. B&B
PK	PINUS KORAIENSIS / KOREAN PINE	6' HT. B&B

SHRUBS

BOTANICAL / COMMON NAME	SIZE	CONTAINER
CH	CORNUS ALBA 'BAIHALO' TM / IVORY HALO DOGWOOD	5 GAL.
CK	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER' / FEATHER REED GRASS	1 GAL.
CM	COREOPSIS VERTICILLATA 'MOONBEAM' / MOONBEAM THICKLEAF TICKSEED	1 GAL.
EM	EUONYMUS FORTUNEI 'MOONSHADOW' TM / MOONSHADOW EUONYMUS	2 GAL.
GA	GALLIARDIA X GRANDIFLORA 'ARIZONA SUN' / BLANKETFLOWER	1 GAL.
HB2	HELICTOTRICHON SEMPERVIRENS 'BLUE OATS' / BLUE OAT GRASS	1 GAL.
HP	HEMEROCALLIS X 'PARDON ME' / PARDON ME DAYLILY	1 GAL.
JB	JUNIPERUS SCOPULORUM 'BLUE ARROW' / BLUE ARROW JUNIPER	5 GAL.
LM	LAVANDULA ANGUSTIFOLIA 'MUNSTEAD' / MUNSTEAD ENGLISH LAVENDER	1 GAL.
MP	MISCANTHUS SINENSIS 'PURPURESCENS' / FLAME GRASS	1 GAL.
PH	PANICUM VIRGATUM 'HEAVY METAL' / BLUE SWITCH GRASS	1 GAL.
PN	PHYSCARPUS OPULIFOLIUS 'SUMMER WINE' / SUMMER WINE NINEBARK	5 GAL.
PP	PINUS MUGO VAR. 'PUMILIO' / MUGO PINE	3 GAL.
RG	RHUS AROMATICA 'GRO-LOW' / GRO-LOW FRAGRANT SUMAC	2 GAL.
SS	SCHIZACHYRIUM SCOPARIUM 'THE BLUES' / THE BLUES LITTLE BLUESTEM	1 GAL.

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Revisions:

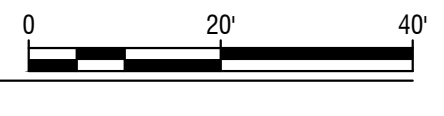
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2	ADDENDUM 2	5/19/2022

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Drawn By: CRUL
Sheet Name:

LANDSCAPE PLAN

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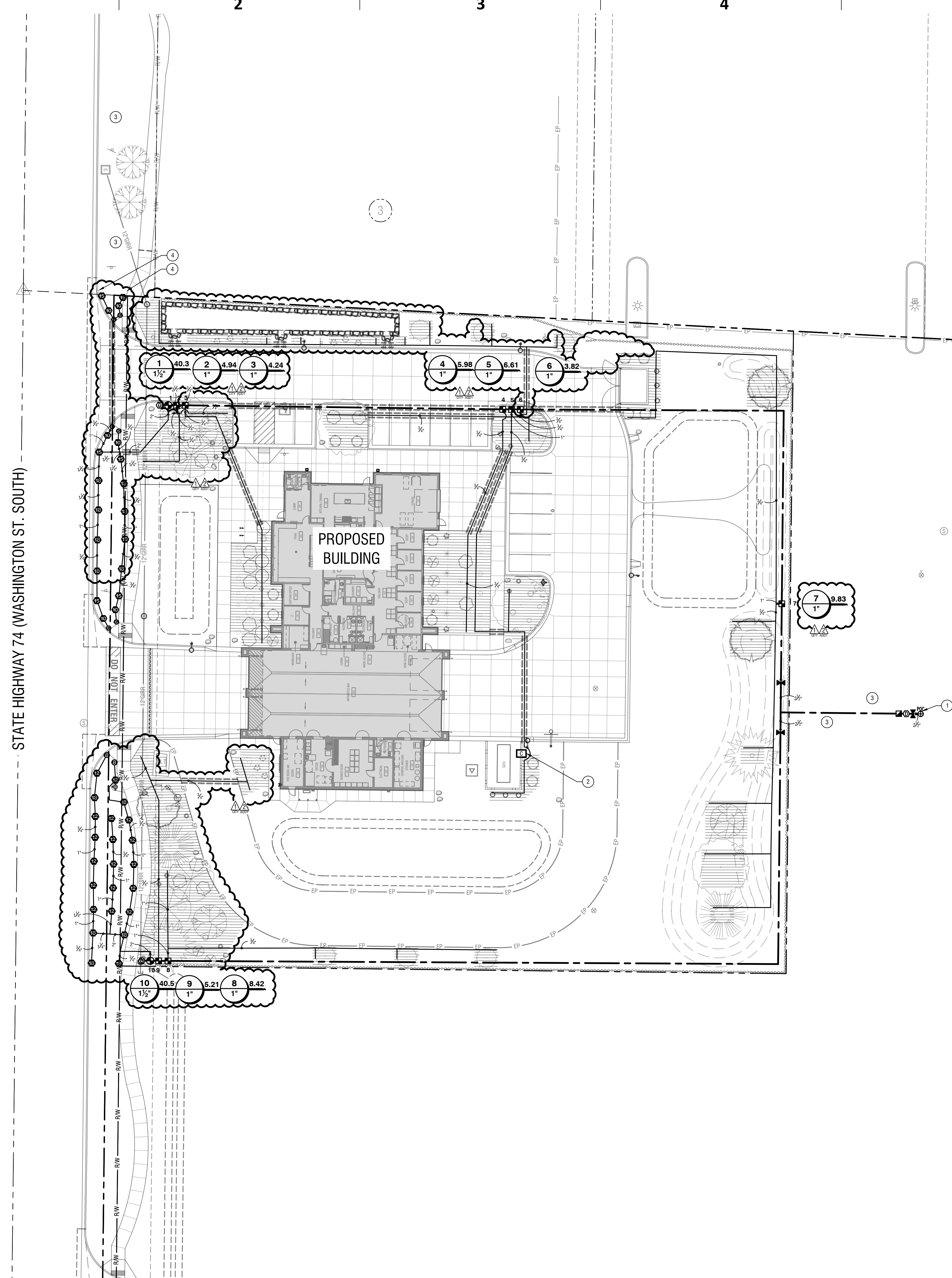
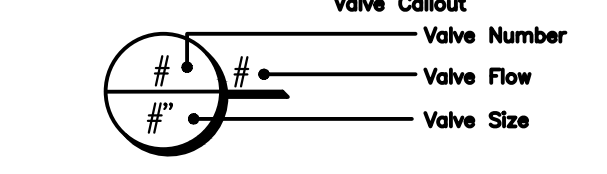
- COORDINATE WITH TWIN FALLS PARKS AND RECREATION FOR MAINTENANCE SPECIFICATIONS.
CONTACT: TODD ANDERSEN
208-738-2277
tanderson@prrd.org
- THE IRRIGATION CONTRACTOR SHALL NOTIFY THE TWIN FALLS PARKS & RECREATION DEPARTMENT BEFORE STARTING THE PROJECT. A SITE AND INSTALLATION OVERVIEW BETWEEN CONTRACTOR AND OWNER/OWNER'S REPRESENTATIVE SHALL BE CONDUCTED.
- SEE SHEET L2.50 FOR DETAILS AND IRRIGATION SYSTEM NOTES.

Keynotes:

- FIELD LOCATE EXISTING 4-IN PRESSURE IRRIGATION MAINLINE AT THIS LOCATION. TAP AND CONNECT WATER TIGHT ONTO SAID MAIN USING A 4-IN X 4-IN X 2-IN DUCTILE IRON TEE BY LEECMCO. EXTEND MAINLINE DOWNSTREAM AS SHOWN.
- INSTALL IRRIGATION CONTROLLER IN A STAINLESS STEEL ENCLOSURE IN THIS APPROXIMATE LOCATION. IRRIGATION CONTRACTOR SHALL PROVIDE ALL REQUIRED ELECTRICAL CONNECTIONS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR SHALL CONNECT ALL LOW VOLTAGE AND 120 VOLT POWER WIRES. ALL ABOVE GRADE WIRES SHALL BE LOCATED IN RIGID STEEL CONDUIT. INSTALL (2) BLUE 14 GAUGE WIRES FROM THE CONTROLLER TO THE LAST VALVE FROM EACH CONTROLLER FOR FUTURE USE.
- REPAIR EXISTING LANDSCAPE AND/OR IRRIGATION DISTURBED TO NEW CONDITIONS. MATCH EXISTING.
- CUT AND CAP IRRIGATION LATERAL AT THIS LOCATION. INSTALL A QUARTER CIRCLE HEAD NORTH OF PROPERTY LINE THAT SPRAYS ONTO EXISTING IRRIGATION RETAINED (KEYNOTE 3). RELOCATE/RE-NOZZLE HEADS AS REQUIRED TO ENSURE HEAD TO HEAD COVERAGE AND THAT NO SPRAY HITS HARDSCAPE. ANY DISTURBANCES MADE SHALL BE REPAIRED TO NEW CONDITIONS. EQUIPMENT SHALL MATCH EXISTING RIGHT-OF-WAY IRRIGATION SYSTEM.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	RAIN BIRD 100S-SAM-PRS ADJ TURF SPRAY 6 0 POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. 1/2 NPT FEMALE THREADED INLET. WITH SEAL-A-MATIC CHECK VALVE. PRESSURE REGULATING.	30	6/L2.50
	RAIN BIRD X2C-100-PRS-R WIDE FLOW DRIP CONTROL KIT FOR COMMERCIAL APPLICATIONS. PURPLE CAP DESIGNATES FOR RECLAIMED WATER, NON-POTABLE USE. 1 PPSBR VALVE AND 1 PRESSURE REGULATING 40PSI BASKET FILTER. 0.3GPM TO 200GPM.		8/L2.50
	AREA TO RECEIVE DRIPLINE NETAFIM T16C-08-18 TECHLINE PRESSURE COMPENSATING LANDSCAPE DRIPLINE WITH CHECK VALVE. 0.6 GPH EMITTERS AT 18" O.C. DRIPLINE LATERALS SPACED AT 18" APART. WITH EMITTERS OFFSET FOR TRIANGULAR PATTERN. 17MM.		9/L2.50
	RAIN BIRD PPSBR-PRS-D 1 1/2 2 DURABLE CHLORINE-RESISTANT VALVES FOR RECLAIMED WATER APPLICATIONS. WITH SCRUBBER MECHANISM TECHNOLOGY. PURPLE FLOW CONTROL HANDLE. AND PRESSURE REGULATOR MODULE.		7/L2.50
	RAIN BIRD 44-RC 1 BRASS QUICK-COUPLING VALVE. WITH CORROSION-RESISTANT STAINLESS STEEL SPRING. THERMOPLASTIC RUBBER COVER. AND 2-PIECE BODY.		5/L2.50
	SHUT OFF VALVE		3/L2.50
	DRAIN VALVE		4/L2.50
	BASELINE BL-3200X TWO-WIRE CONTROLLER IN LARGE 16-GAUGE POWDER-COATED WALL MOUNT CABINET. EXPANDABLE TO 200 STATIONS.		12/L2.50
	POINT OF CONNECTION AT EXISTING 4-IN PIRR LINE (PIRR SYSTEM)		
	IRRIGATION LATERAL LINE: PVC SCHEDULE 40 PVC SCH. 40 PIPE SHALL BE USED WITH SOLVENT WELD SCH. 40 FITTINGS FROM 1/2 2 1/2 PIPE SIZES. ALL PIPE 3 AND ABOVE SHALL BE CLASS 200 WITH DUCTILE JOINT RESTRAIN FITTINGS BY LEECMCO.		1/L2.50
	IRRIGATION MAINLINE: PVC SCHEDULE 40 PVC SCH. 40 PIPE SHALL BE USED WITH SOLVENT WELD SCH. 40 FITTINGS FROM 1/2 2 1/2 PIPE SIZES. ALL PIPE 3 AND ABOVE SHALL BE CLASS 200 WITH DUCTILE JOINT RESTRAIN FITTINGS BY LEECMCO.		1/L2.50
	PIPE SLEEVE: PVC CLASS 200 SDR 21 PIPE SLEEVE SHALL BE TWICE THE SIZE OF DESIGNED PIPE DIAMETER FOR MAINLINE AND 4 FOR LATERAL LINES. INSTALL ADDITIONAL 2 SLEEVE AT ALL MAINLINE SLEEVES FOR CONTROL WIRES OR WHERE CONTROL WIRE LEAVES MAINLINE ROUTE.		2/L2.50



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1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

Revisions:

1	CITY COMMENTS	4/11/2022 & 5/19/2022
2	ADDENDUM 2	5/19/2022

Project No: 20-042
Date: 03/14/2022
Checked By: EC/BS
Drawn By: CR/L

Sheet Name:

IRRIGATION PLAN

BID SET

Sheet No:
L2.00

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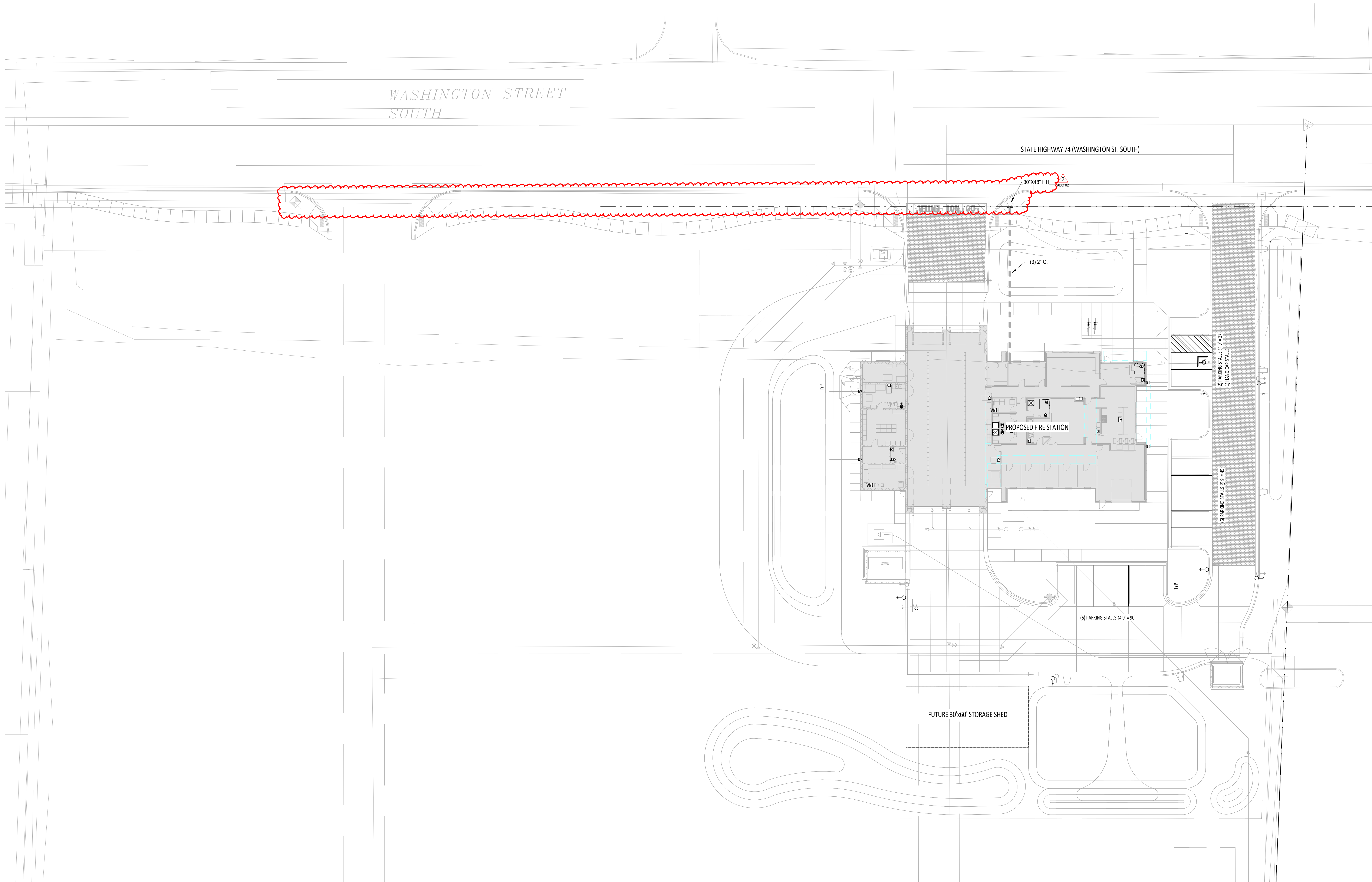
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E



← **TECHNOLOGY SITE PLAN**
SCALE: 1" = 20'-0"

STAMP

Project:
TWIN FALLS FIRE STATION 3

1025 WASHINGTON STREET SOUTH, TWIN FALLS, IDAHO

2 Addendum 02 05/20/22

Project No: 20-042
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Drawn By: Author

Sheet Name:

TECHNOLOGY SITE PLAN

BID SET

Sheet No:

T1.01

KEYNOTES	
T1	PROVIDE 4'-11/16" SQUARE DEEP BOX WITH SINGLE GANG MUD RING. ROUTE 1" CONDUIT TO ROOF WITH WEATHER HEAD FOR RADIO ANTENNA.
T2	PROVIDE 4'-11/16" SQUARE DEEP BOX WITH SINGLE GANG MUD RING. ROUTE 1" CONDUIT FROM RADIO CABINET TO IT ROOM.
T3	PROVIDE 3/4" CONDUIT BETWEEN BOXES.
T4	PROVIDE A TURN OUT TIMER CLOCK. CLOCK SHALL BE DIGITAL WITH MINIMUM 4" NUMBERS. TIMER IS TO START ON TRIGGER FROM INCOMING CALL OF STATION ALERTING SYSTEM. PROVIDE MANUAL STOP/PRESET BUTTON UNDER CLOCK.
T6	PROVIDE SINGLE LINE PHONE. PROGRAM RING DOWN CIRCUIT TO 911 DISPATCH.
T7	COORDINATE EXACT LOCATION AND TERMINATION REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
T8	ALERTING SYSTEM DEVICE J-BOX. PROVIDE 4" SQ. DEEP BOX WITH SINGLE GANG MUD RING. ROUTE 3/4" C. TO ACCESSIBLE CEILING, CABLE TRAY, OR CONDUIT CONSOLIDATION BOX LOCATION.



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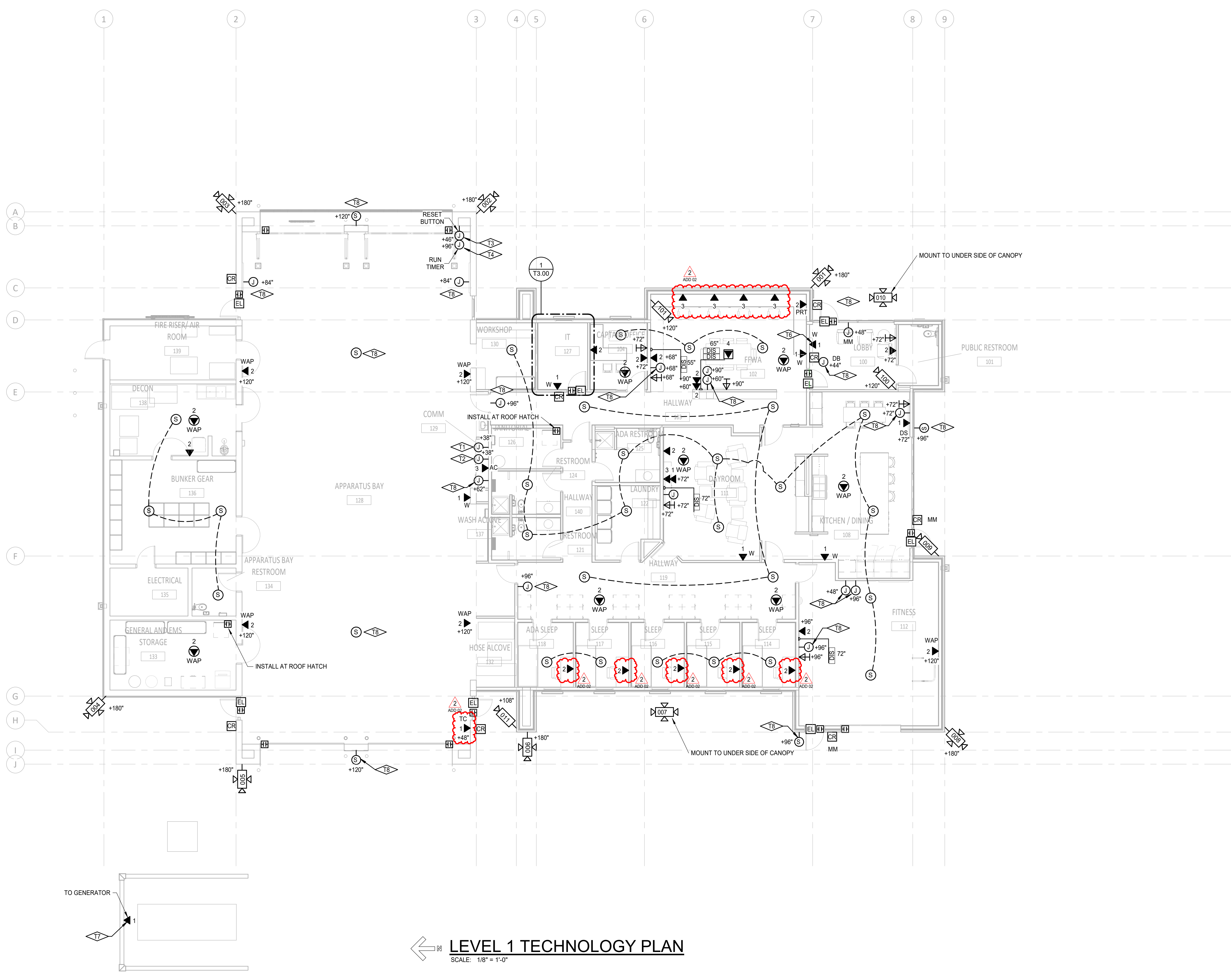
2 Addendum 02 05/20/22

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TECHNOLOGY FLOOR PLAN SERIES

Sheet No:

T2.11



BID SET