GENERAL DEMOLITION NOTES:

1. Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.
2. Refer to site improvement plans for more details on limits of removal.
3. Demolish existing buildings and clear from site. (Including removal of all footings and foundations.)
4. All curbs, gutters, walks, slabs, walls, fences, flatwork, asphalt, waterlines and meters, gas lines, sewer lines, light poles, buried cables, storm drain piping and structures to be cleared from site unless otherwise shown.
5. All utilities, sewer, water, gas, telephone and electrical services to be disconnected and capped according to city, county and utility company requirements, unless otherwise shown.
6. Basements and other excavated areas to be backfilled with clean granular material compacted to 95% of maximum lab density as determined by ASTM D 1557–78. (Test results to be given to owner)
7. Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off–site except where noted otherwise.
8. DO NOT interrupt any services or disrupt the operation of any businesses shown outside the demolition limits.
9. If ASBESTOS is found in existing structures, the Asbestos must be removed in a legal manner by a contractor licensed to handle asbestos materials. (Not a part of contract)
10. Remove debris, rubbish, and other materials resulting from the demolition and site clearing operations from the site and dispose of in a legal manner.
11. The location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied upon as being exact or complete. Contractor shall contact authorities having jurisdiction for field locations. Contractor shall be responsible for protection of in place and relocated utilities during construction.
12. Stockpiles shall be graded to maintain slopes not greater than 3 horizontal to 1 vertical. Provide erosion control as needed to prevent sediment transport to adjacent drainage ways.
13. Contractor shall be responsible for disposal of all waste material. Disposal shall be at an approved site for such material. Burning onsite is not permitted.
14. Contractor shall verify with city any street removal, curb cuts, and any restoration required for utility line removal.
15. Install traffic warning devices as needed in accordance with local standards.
16. Contractor shall obtain all permits necessary for demolition from City, County, State or Federal Agencies as required.

CAUTION NOTICE TO CONTRACTOR

The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the propose improvements shown on the plans.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

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ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

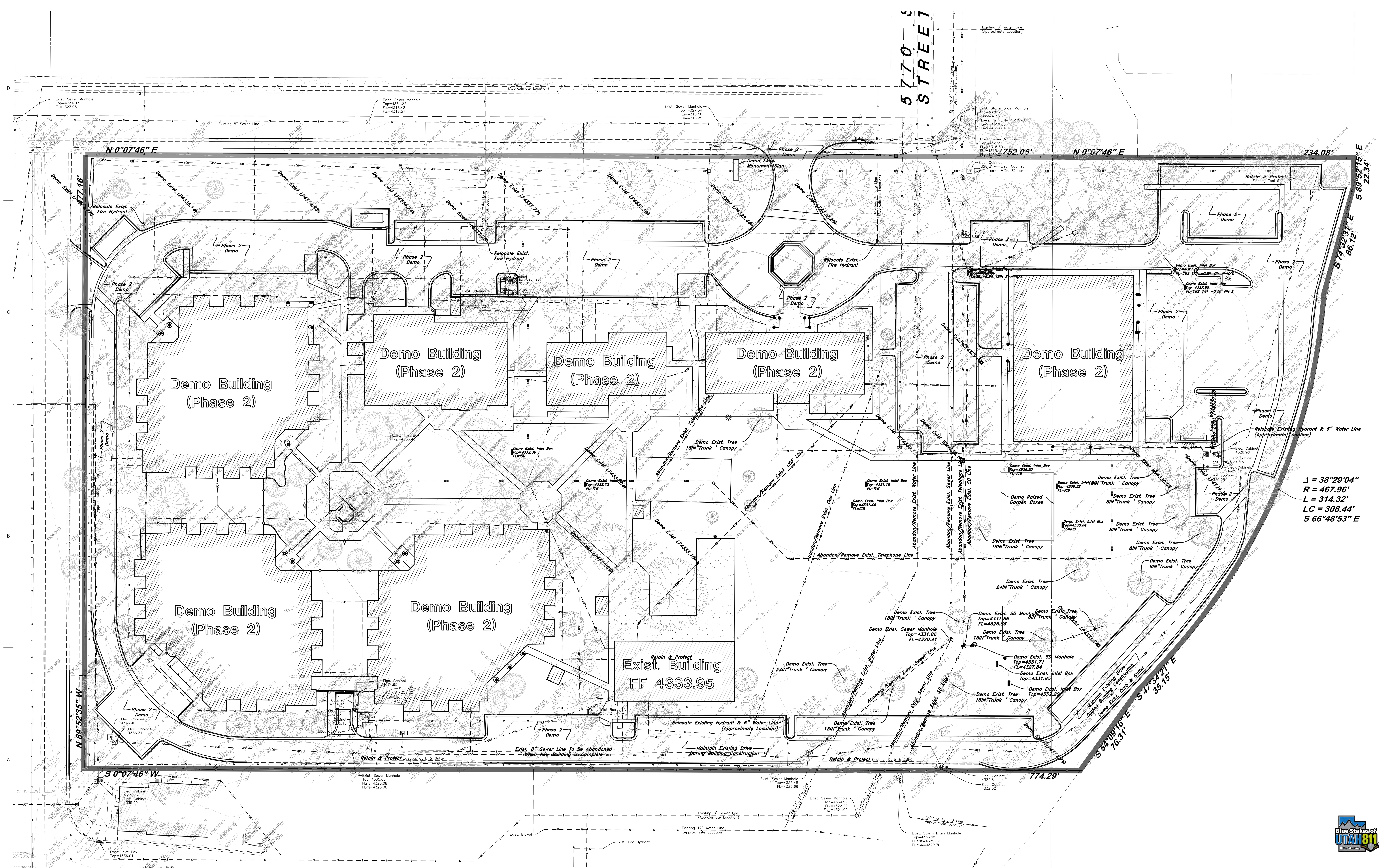
Scale: 1" = 30'

Graphic Scale (30, 0, 15, 30, 40, 50, 60)

Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	(S)	Top of Walk	TW
Water Manhole	(W)	Top of Concrete	TCN
Storm Drain Manhole	(SD)	Natural Ground	NG
Cleanout	(CO)	Finish Grade	FG
Electrical Manhole	(E)	Match Existing	ME
Catch Basins		Fire Department Connection	FDC
Exist. Fire Hydrant		Finish Contour	90
Fire Hydrant		Exist. Contour	90
Fire Department Connection		Finish Grade	95.33TA
Post Indicator Valve		Exist. Grade	95.72TA
Exist. Water Valve		Ridge Line	R
Water Valve		Direction of Flow	
Sanitary Sewer	S	Existing Asphalt	
Culinary Water	W	New Asphalt	
Gas Line	G	Heavy Duty Asphalt	
Irrigation Line	IW	Existing Concrete	
Storm Drain	SD	New Concrete	
Telephone Line	T	Demo'd Road Base	
Secondary Waterline	SW	Spill Curb & Gutter	
Power Line	P	Demo Tree	
Fire Line	F	Tree To Remain in Place	
Land Drain	LD		
Power pole			
Power pole w/guy			
Light Pole			
Fence	x x x		
Flowline of ditch			
Overhead Power line	OHP		
Corrugated Metal Pipe	CMP		
Concrete Pipe	CP		
Reinforced Concrete Pipe	RCP		
Ductile Iron	DI		
Polyvinyl Chloride	PVC		
Top of Asphalt	TA		
Edge of Asphalt	EA		
Centerline	CL		
Flowline	FL		
Finish Floor	FF		
Top of Curb	TC		
Top of Wall	TWL		



HDR

HDR ARCHITECTURE P.C
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S.L.C (801)521-0222 Fax 801-392-7544
www.greatbasinengineering.com

Intermountain Health

PRIMARY CHILDREN'S WASATCH CANYONS BEHAVIORAL HEALTH REPLACEMENT PROJECT

5770 SOUTH 1500 WEST
TAYLORSVILLE, UTAH 84123

CONSTRUCTION DOCUMENT

Project Manager	STEVE K.
Project Designer	ERIC M./ BRIAN S. / ANNETTE H./ BRIAN G.
Project Architect	NEIL C.
Landscape Architect	ARCSITIO DESIGN
Civil Engineer	GREAT BASIN ENGINEERS
Structural Engineer	REAVELEY ENGINEERS
Mechanical Engineer	VBFA
Electrical Engineer	SPECTRUM ENGINEERS
Plumbing Engineer	VBFA
Interior Designer	RUBY T.
Equipment Planner	- -
Wayfinding	WENDY W. / JEFF Z.

Project Number	10346477
Original Issue	06/28/2023

LICENSED PROFESSIONAL ENGINEER No. 166484 MARK EUGENE BABBITT 6-12-23 STATE OF UTAH

Sheet Name
DEMOLITION PLAN

Scale

Sheet Number
CD100

Project Status
CONSTRUCTION DOCUMENT

Blue Stakes of UTAH 811 Bluestakes.org

4/25/2023 7:13:30 PM Autodesk Docs://10346477_IHC_Children's_Wasatch_Canyons_Replacement_2022/10346477-A-WCBH.rvt

GENERAL SITE NOTES:

1. Stalls designated as accessible will require a painted accessible symbol and sign. (See Details)
2. Fire lane markings and signs to be installed as directed by the Fire Marshall.
3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
4. Building sidewalks, ramps, and bollards are building contractor responsible items. See architectural plans.
5. All dimensions are to back of curb unless otherwise noted.

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ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

	Note	Detail Reference
(1)	Construct Standard Asphalt Paving	
(2)	Construct Heavy Duty Asphalt Paving	
(3)	Construct Concrete Sidewalk	
(4)	Construct Concrete Paving	
	a) T=4"	
	b) T=6"	
(5)	Construct 24" Standard Curb & Gutter	
(6)	Construct 24" Spill Curb & Gutter	
(7)	Construct 30" Standard Curb & Gutter	
(8)	Construct 30" Spill Curb & Gutter	
(9)	Construct Waterway	
(10)	Construct NO PARKING Striping	
(11)	Construct Striping	
(12)	Construct Crosswalk Striping	
(13)	Construct ADA Striping	
(14)	Construct ADA Ramp	
(15)	Construct Depressed ADA Walk with Detectable Warning Device	
(16)	Install ADA Parking Signs	

	Note	Detail Reference
(17)	Construct Stairs: (x) Treads with (x) x" Risers	
(18)	Construct EV Charging Stations	
(19)	Construct EV Parking Signs	
(20)	Construct "Police Parking Only" Sign	
(21)	Construct Directional Traffic Arrows	
(22)	Construct Landscaping	

Legend

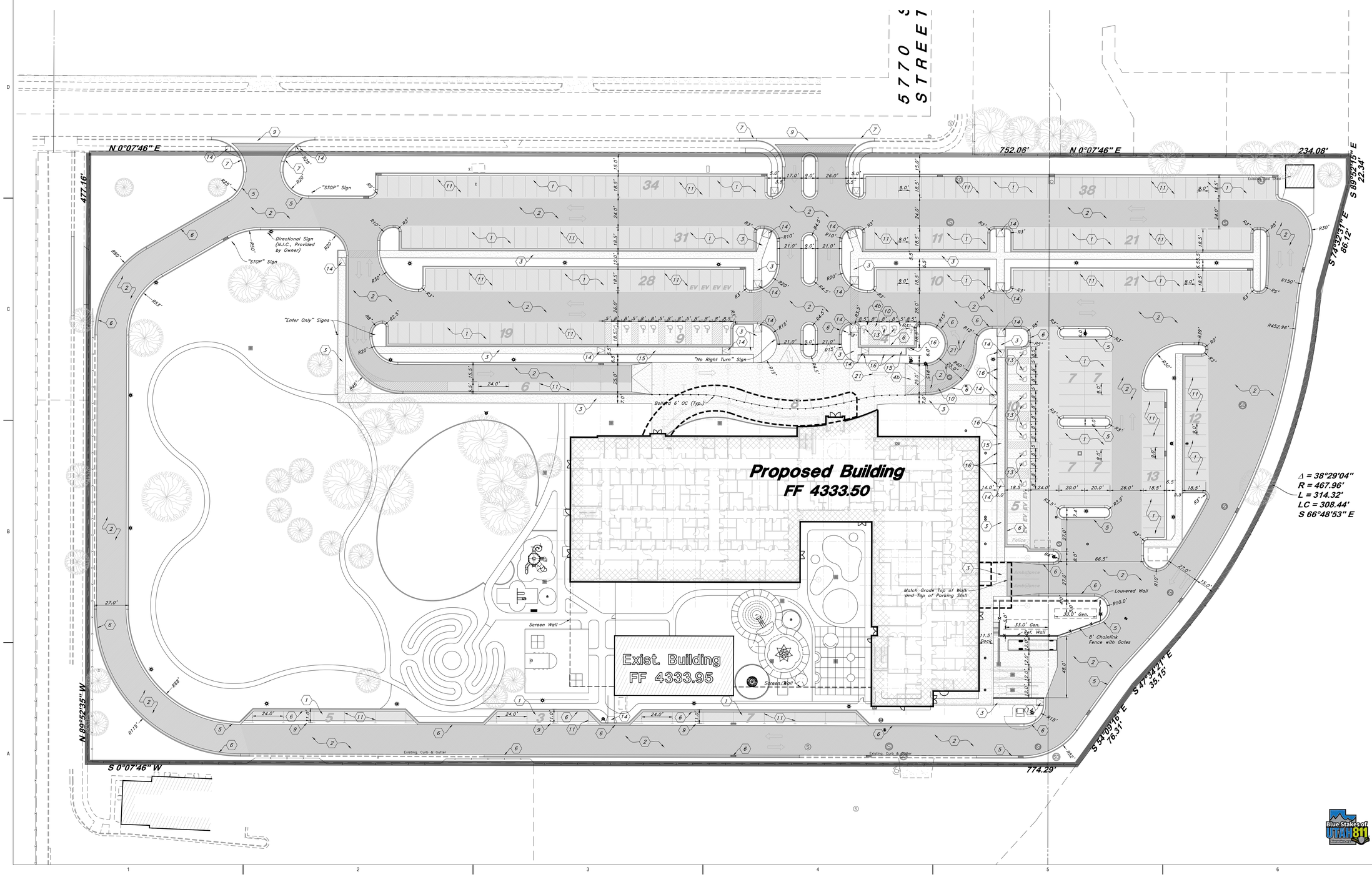
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Water Manhole	(W)	Top of Concrete	TCN
Storm Drain Manhole	(S)	Natural Ground	NG
	(D)	Finish Grade	FG
Cleanout	(C)	Match Existing	ME
		Fire Department Connection	FDC
Electrical Manhole	(E)	Finish Contour	90
Catch Basins		Exist. Contour	90
Exist. Fire Hydrant		Finish Grade	95.33TA
Fire Hydrant		Exist. Grade	95.72TA
Fire Department Connection		Ridge Line	
Post Indicator Valve		Direction of Flow	
Exist. Water Valve			
Water Valve		Existing Asphalt	
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Land Drain	LD	New Concrete	
Power pole			
Power pole w/guy		Demo'd Road Base	
Light Pole			
Fence	X X X		
Flowline of ditch		Spill Curb & Gutter	
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Concrete Pipe	CP		
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Top of Asphalt	TA		
Edge of Asphalt	EA		
Centerline	CL		
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Finish Floor	FF	Tree To Remain In Place	
Top of Curb	TC		
Top of Wall	TW		

Scale: 1" = 30'

30 0 15 30 40 50 60

Graphic Scale



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Intermountain Health

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5770 SOUTH 1500 WEST
TAYLORSVILLE, UTAH 84123

CONSTRUCTION DOCUMENT

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Project Architect	NEIL C.
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Electrical Engineer	SPECTRUM ENGINEERS
Plumbing Engineer	VBFA
Interior Designer	RUBY T.
Equipment Planner	- -
Wayfinding	WENDY W. / JEFF Z.

Project Number	10346477
Original Issue	06/28/2023

No. 166484 MARK EUGENE BABBITT 4-12-23 STATE OF UTAH LICENSED PROFESSIONAL ENGINEER

Sheet Name

SITE PLAN

Scale

Sheet Number

CS100

Project Status

CONSTRUCTION DOCUMENT

Blue Stakes of UTAH 811

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ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

Legend

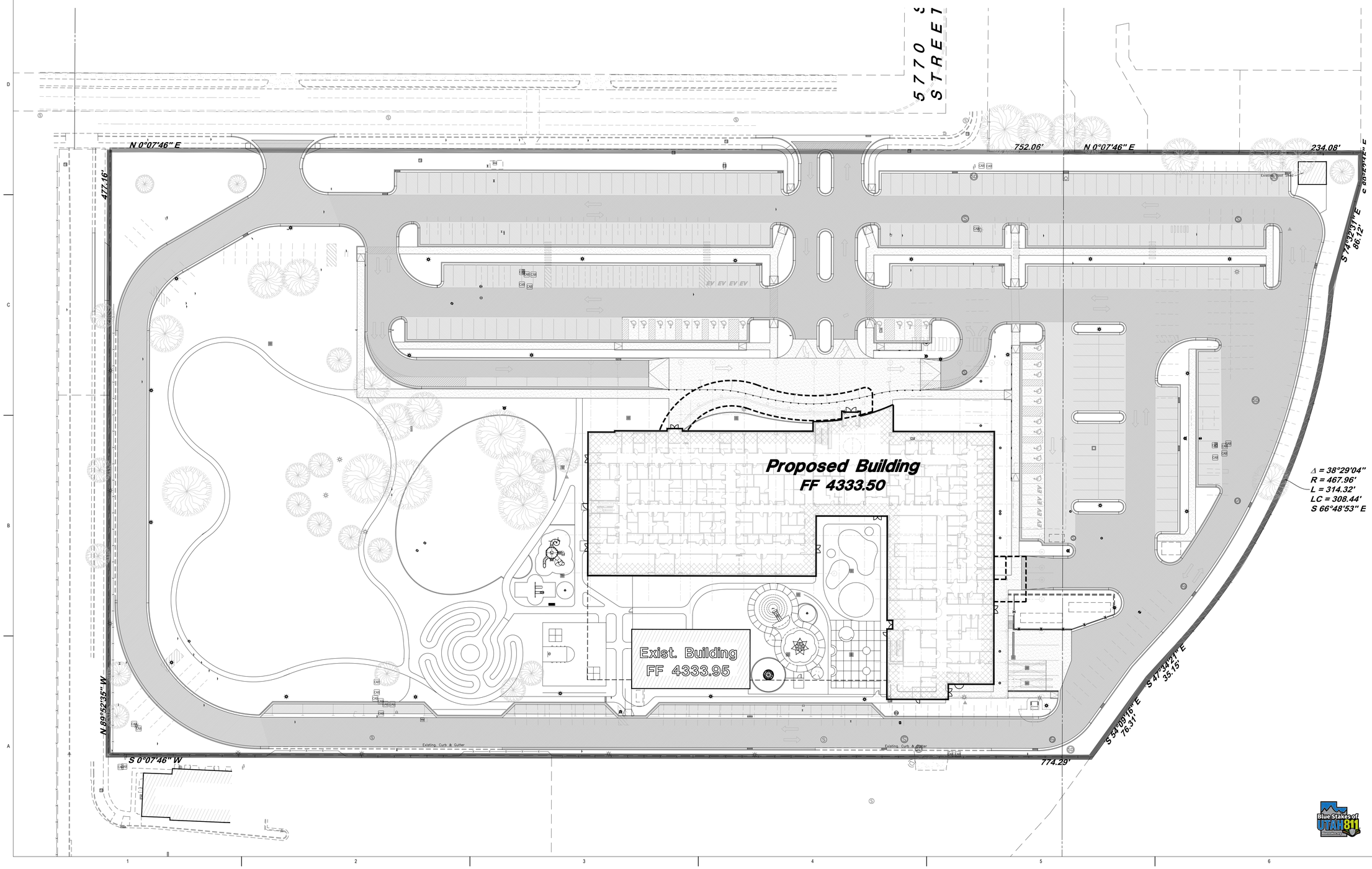
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Cleanout	C	Fire Department Connection	FDC
Electrical Manhole	E	Finish Contour	90
Catch Basins		Exist. Contour	90
Exist. Fire Hydrant		Finish Grade	95.33TA
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Exist. Water Valve			
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Scale: 1" = 30'

30 0 15 30 40 50 60

Graphic Scale



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Intermountain Health

PRIMARY CHILDREN'S WASATCH CANYONS BEHAVIORAL HEALTH REPLACEMENT PROJECT

5770 SOUTH 1500 WEST
TAYLORSVILLE, UTAH 84123

CONSTRUCTION DOCUMENT

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Project Designer	ERIC M./ BRIAN S. / ANNETTE H./ BRIAN G.
Project Architect	NEIL C.
Landscape Architect	ARCSITIO DESIGN
Civil Engineer	GREAT BASIN ENGINEERS
Structural Engineer	REAVELEY ENGINEERS
Mechanical Engineer	VBFA
Electrical Engineer	SPECTRUM ENGINEERS
Plumbing Engineer	VBFA
Interior Designer	RUBY T.
Equipment Planner	- -
Wayfinding	WENDY W. / JEFF Z.

Project Number	10346477
Original Issue	06/28/2023

LICENSED PROFESSIONAL ENGINEER
No. 166484
MARK EUGENE BABBITT
4-12-23
STATE OF UTAH

Sheet Name

SITE PLAN (WITH EXISTING LINEWORK)

Scale

Sheet Number

CS101

Project Status

CONSTRUCTION DOCUMENT

Blue Stakes of UTAH 811

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GENERAL GRADING NOTES:

1. All work shall be in accordance with the City Public Works Standard.
2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
5. Areas to receive fill shall be properly prepared and approved by the City inspector and geotechnical Engineer prior to placing fill.
6. Fills shall be benched into competent material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
8. A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
9. The final compaction report and certification from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
10. Dust shall be controlled by watering.
11. The location and protection of all utilities is the responsibility of the permitee.
12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the city engineer.
14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
17. Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
18. The recommendations in the following Geotechnical Engineering Report by xxxx are included in the requirements of grading and site preparation.
    The report is titled "GEOTECHNICAL INVESTIGATION"
    Job No.: Address
    Dated:
19. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
20. Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to strain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

CURB AND GUTTER CONSTRUCTION NOTES:

1. Open face gutter shall be constructed where drainage is directed away from curb.
2. Open face gutter locations are indicated by shading and notes on site and grading plan.
3. It is the responsibility of the surveyor to adjust top of curb grades at the time construction staking.
4. Refer to the typical details for a standard and open face curb and gutter for dimensions.
5. Transitions between open face and standard curb and gutter are to be smooth. Hand form these areas if necessary.

ADA NOTES:

Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routs must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If grades on plans do not meet this requirement notify Consultants immediately.

The Client, Contractor, and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the ADA and/or FHAA.

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Legend

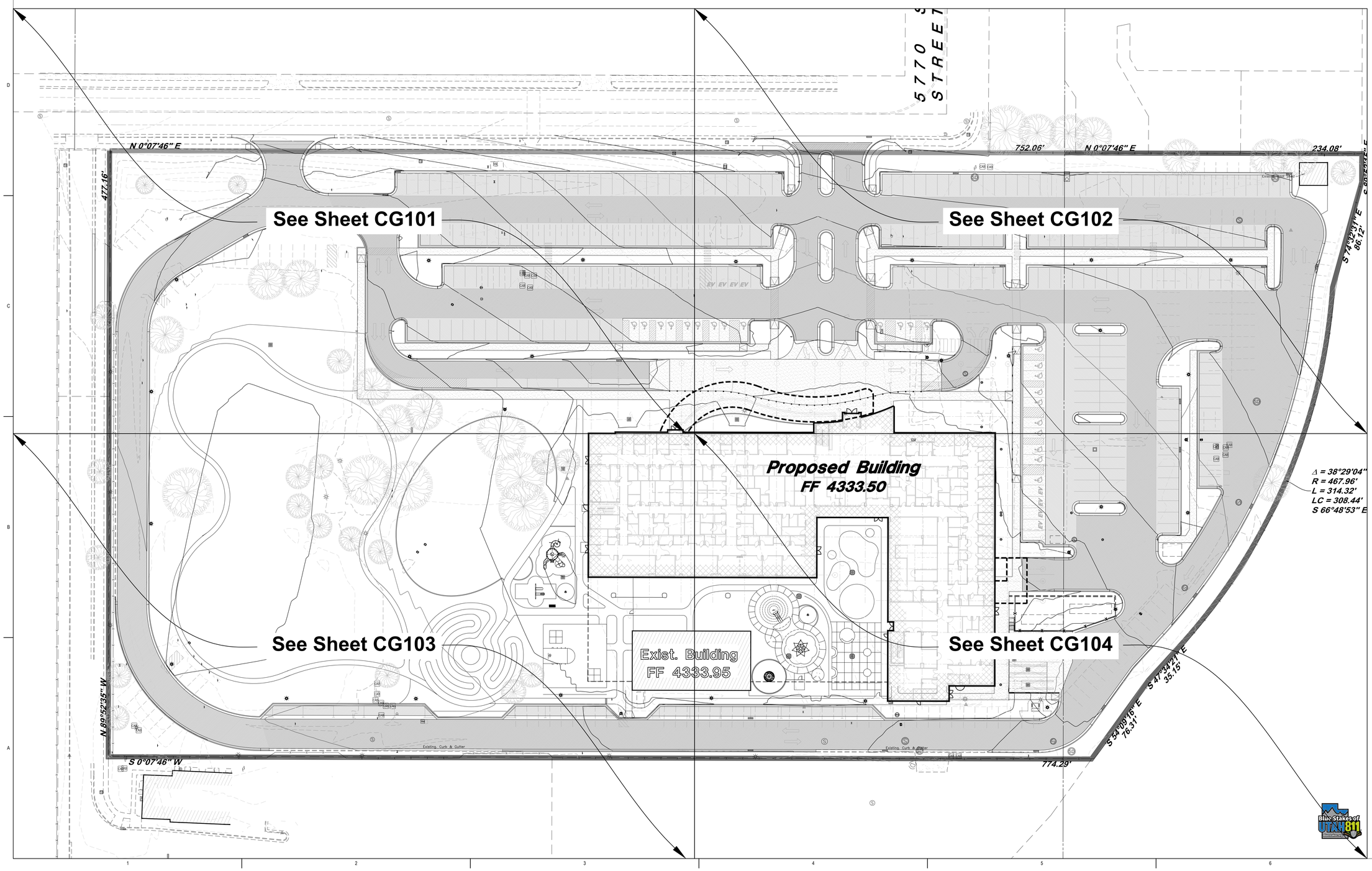
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Scale: 1" = 30'

30 0 15 30 40 50 60

Graphic Scale



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Intermountain Health

PRIMARY CHILDREN'S WASATCH CANYONS BEHAVIORAL HEALTH REPLACEMENT PROJECT

5770 SOUTH 1500 WEST
TAYLORSVILLE, UTAH 84123

CONSTRUCTION DOCUMENT

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Project Designer	ERIC M. / BRIAN S. / ANNETTE H. / BRIAN G.
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Project Number	10346477
Original Issue	06/28/2023

LICENSED PROFESSIONAL ENGINEER
No. 166484
MARK EUGENE BABBITT
6-12-23
STATE OF UTAH

Sheet Name
GRADING PLAN

Scale

Sheet Number
CG100

Project Status
CONSTRUCTION DOCUMENT

Blue Stakes of Utah 811

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Legend

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Top of Asphalt	TA		
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Centerline	CL		
Flowline	FL		
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Top of Curb	TC		
Top of Wall	TW		

Scale: 1" = 20'

20 0 10 20 25 30 35 40

Graphic Scale

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Project Number	10346477
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No. 166484
MARK EUGENE BABBITT
4-12-24
STATE OF UTAH

Sheet Name

GRADING PLAN 'A'

Scale

Sheet Number

CG101

Project Status

CONSTRUCTION DOCUMENT

Blue Stakes of UTAH 811

4/25/2023 7:13:39 PM Autodesk Docs://10346477_IHC_Children's_Wasatch_Canyons_Replacement_2022/10346477-A-WCBH.rvt

Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	S	Top of Walk	TW
Water Manhole	W	Top of Concrete	TCN
Storm Drain Manhole	D	Natural Ground	NG
		Finish Grade	FG
Cleanout	C	Match Existing	ME
		Fire Department Connection	FDC
Electrical Manhole	E	Finish Contour	90
Catch Basins		Exist. Contour	90
Exist. Fire Hydrant		Finish Grade	95.33TA
Fire Hydrant		Exist. Grade	95.72TA
Fire Department Connection		Ridge Line	R
Post Indicator Valve		Direction of Flow	
Exist. Water Valve	WV		
Water Valve	WV	Existing Asphalt	
Sanitary Sewer	SS		
Culinary Water	W	New Asphalt	
Gas Line	G		
Irrigation Line	IW	Heavy Duty Asphalt	
Storm Drain	SD		
Telephone Line	T	Existing Concrete	
Secondary Waterline	SW		
Power Line	P	New Concrete	
Fire Line	F		
Land Drain	LD	Demo'd Road Base	
Power pole	PP		
Power pole w/guy	PP	Spill Curb & Gutter	
Light Pole	LP		
Fence	X X X	Demo Tree	
Flowline of ditch			
Overhead Power line	OHP	Tree To Remain In Place	
Corrugated Metal Pipe	CMP		
Concrete Pipe	CP		
Reinforced Concrete Pipe	RCP		
Ductile Iron	DI		
Polyvinyl Chloride	PVC		
Top of Asphalt	TA		
Edge of Asphalt	EA		
Centerline	CL		
Flowline	FL		
Finish Floor	FF		
Top of Curb	TC		
Top of Wall	TWL		

Scale: 1" = 20'

20 0 10 20 25 30 35 40

Graphic Scale

5770 S STREET

Proposed Building
FF 4333.50

HDR ARCHITECTURE P.C
350 SOUTH GRAND AVENUE, SUITE 2900
LOS ANGELES, CA 90071-3406

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Ogden, Utah 84403 Main (801)394-4515
S.L.C (801)521-8222 Fax 801-392-7544
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Intermountain Health

PRIMARY CHILDREN'S
WASATCH CANYONS
BEHAVIORAL HEALTH
REPLACEMENT
PROJECT

5770 SOUTH 1500 WEST
TAYLORSVILLE, UTAH 84123

CONSTRUCTION DOCUMENT

Project Manager	STEVE K.
Project Designer	ERIC M./ BRIAN S. / ANNETTE H./ BRIAN G.
Project Architect	NEIL C.
Landscape Architect	ARCSITIO DESIGN
Civil Engineer	GREAT BASIN ENGINEERS
Structural Engineer	REAVELEY ENGINEERS
Mechanical Engineer	VBFA
Electrical Engineer	SPECTRUM ENGINEERS
Plumbing Engineer	VBFA
Interior Designer	RUBY T.
Equipment Planner	...
Wayfinding	WENDY W. / JEFF Z.

Project Number	10346477
Original Issue	06/26/2023

No. 166484
MARK EUGENE
BABBITT
4-12-23
STATE OF UTAH

Sheet Name
GRADING PLAN 'B'

Scale

Sheet Number
CG102

Project Status
CONSTRUCTION DOCUMENT

Blue Stakes of Utah 811

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Legend

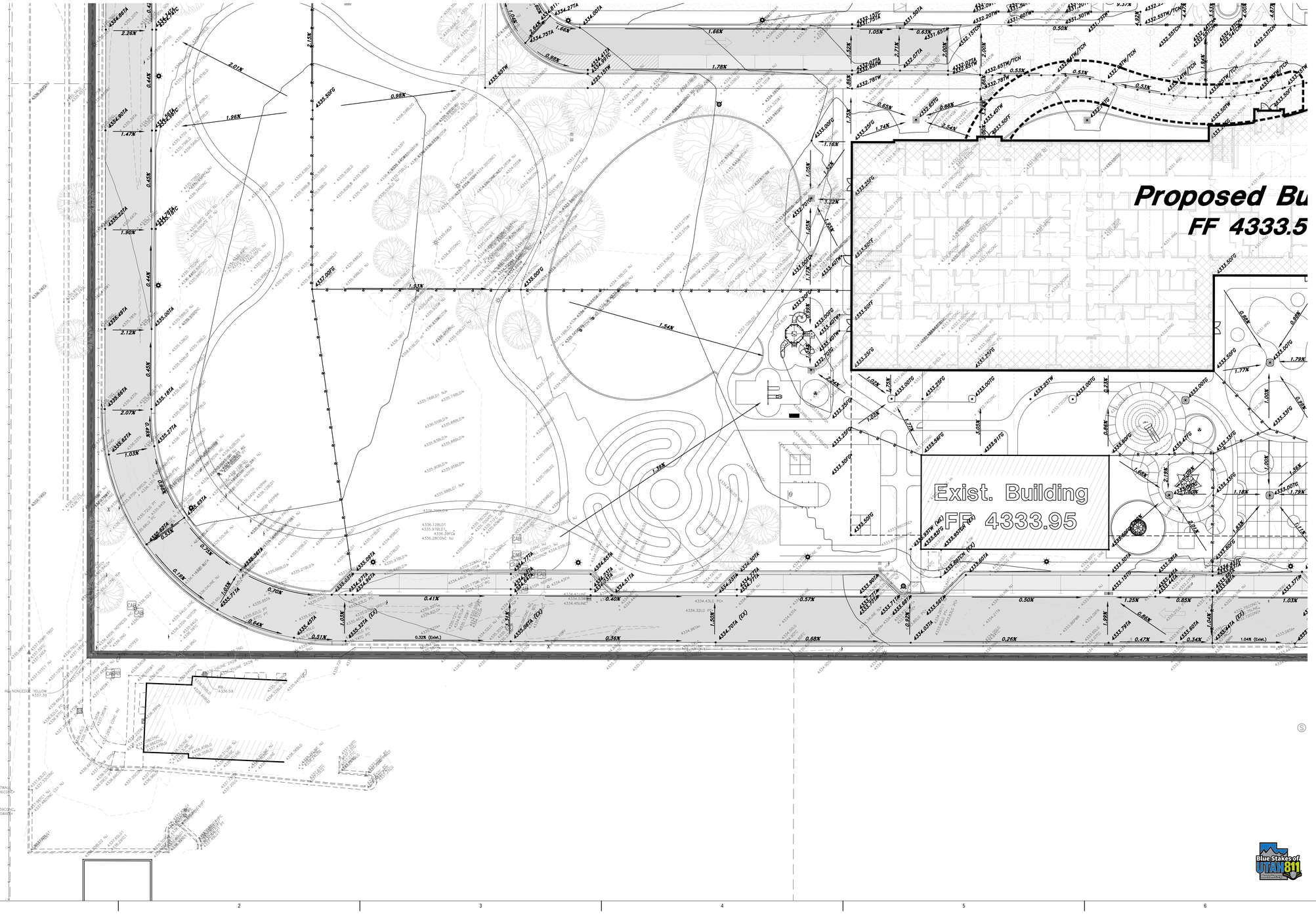
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Water Manhole	W	Top of Concrete	TCN
Storm Drain Manhole	D	Natural Ground	NG
Cleanout	C	Finish Grade	FG
Electrical Manhole	E	Match Existing	ME
Catch Basins		Fire Department Connection	FDC
Exist. Fire Hydrant		Finish Contour	90
Fire Hydrant		Exist. Contour	90
Fire Department Connection		Finish Grade	95.33TA
Post Indicator Valve		Exist. Grade	95.72TA
Exist. Water Valve		Ridge Line	R
Water Valve		Direction of Flow	
Sanitary Sewer	S		
Culinary Water	W	Existing Asphalt	
Gas Line	G		
Irrigation Line	IW	New Asphalt	
Storm Drain	SD	Heavy Duty Asphalt	
Telephone Line	T		
Secondary Waterline	SW	Existing Concrete	
Power Line	P		
Fire Line	F	New Concrete	
Land Drain	LD		
Power pole	PP	Demo'd Road Base	
Power pole w/guy	PP		
Light Pole		Spill Curb & Gutter	
Fence	x x x		
Flowline of ditch		Demo Tree	
Overhead Power line	OHP		
Corrugated Metal Pipe	CMP	Tree To Remain In Place	
Concrete Pipe	CP		
Reinforced Concrete Pipe	RCP		
Ductile Iron	DI		
Polyvinyl Chloride	PVC		
Top of Asphalt	TA		
Edge of Asphalt	EA		
Centerline	CL		
Flowline	FL		
Finish Floor	FF		
Top of Curb	TC		
Top of Wall	TW		

Scale: 1" = 20'

20 0 10 20 25 30 35 40

Graphic Scale



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Intermountain Health

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5770 SOUTH 1500 WEST
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Mechanical Engineer	VBFA
Electrical Engineer	SPECTRUM ENGINEERS
Plumbing Engineer	VBFA
Interior Designer	RUBY T.
Equipment Planner	--
Wayfinding	WENDY W. / JEFF Z.

Project Number	10346477
Original Issue	06/28/2023

LICENSED PROFESSIONAL ENGINEER
No. 166484
MARK EUGENE BABBITT
6-12-23
STATE OF UTAH

Sheet Name

GRADING PLAN 'C'

Scale

Sheet Number

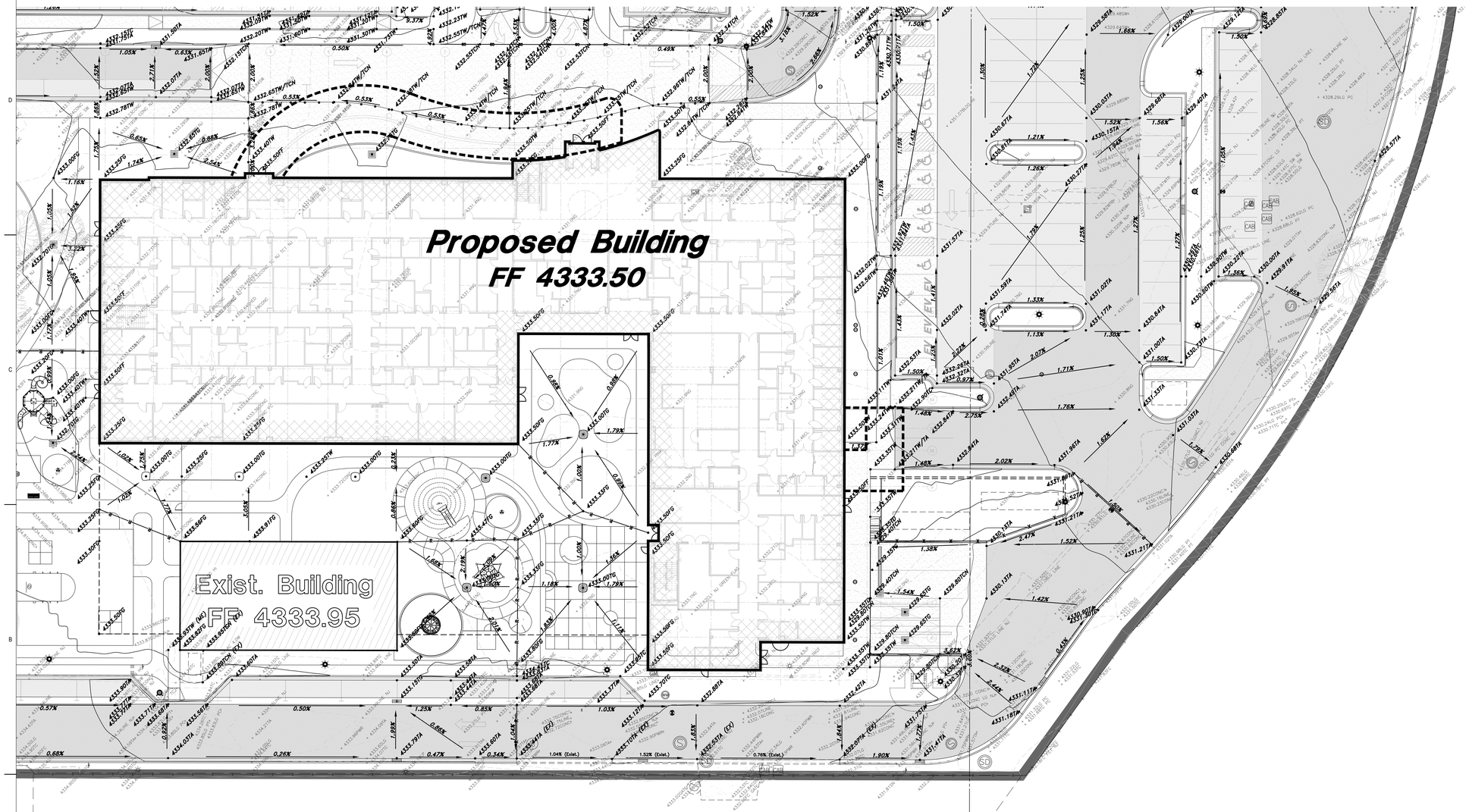
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Project Status

CONSTRUCTION DOCUMENT

Blue Stakes of Utah 811

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Legend

(Note: All Items may not appear on drawing)

San. Sewer Manhole	S	Top of Walk	TW
Water Manhole	W	Top of Concrete	TCN
Storm Drain Manhole	D	Natural Ground	NG
		Finish Grade	FG
Cleanout	C	Match Existing	ME
		Fire Department Connection	FDC
Electrical Manhole	E	Finish Contour	90
Catch Basins		Exist. Contour	90
Exist. Fire Hydrant		Finish Grade	95.33TA
Fire Hydrant		Exist. Grade	95.72TA
Fire Department Connection		Ridge Line	R
Post Indicator Valve		Direction of Flow	
Exist. Water Valve			
Water Valve		Existing Asphalt	
Sanitary Sewer	S		
Culinary Water	W	New Asphalt	
Gas Line	G		
Irrigation Line	IW	Heavy Duty Asphalt	
Storm Drain	SD		
Telephone Line	T	Existing Concrete	
Secondary Waterline	SW		
Power Line	P	New Concrete	
Fire Line	F		
Land Drain	LD	Demo'd Road Base	
Power pole			
Power pole w/guy		Spill Curb & Gutter	
Light Pole			
Fence	X X X		
Flowline of ditch		Demo Tree	
Overhead Power line	OHP		
Corrugated Metal Pipe	CMP		
Concrete Pipe	CP		
Reinforced Concrete Pipe	RCP	Tree To Remain In Place	
Ductile Iron	DI		
Polyvinyl Chloride	PVC		
Top of Asphalt	TA		
Edge of Asphalt	EA		
Centerline	CL		
Flowline	FL		
Finish Floor	FF		
Top of Curb	TC		
Top of Wall	TWL		

Scale: 1" = 20'

20 0 10 20 25 30 35 40

Graphic Scale

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Interior Designer	RUBY T.
Equipment Planner	--
Wayfinding	WENDY W. / JEFF Z.

Project Number	10346477
Original Issue	06/28/2023

LICENSED PROFESSIONAL ENGINEER
No. 166484
MARK EUGENE BABBITT
04-12-23
STATE OF UTAH

Sheet Name
GRADING PLAN 'D'

Scale

Sheet Number
CG104

Project Status
CONSTRUCTION DOCUMENT

Blue Stakes of Utah 811

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GENERAL UTILITY NOTES:
1. Coordinate all utility connections to building with plumbing plans and building contractor.
2. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
3. All catch basin and inlet box grates are to be bicycle proof.
4. All inlet boxes located in curb and gutter are to be placed parallel to the curb and gutter and set under the frame and grate. Improperly placed boxes will be removed and replaced at no additional cost to the owner. Precast or cast in place boxes are acceptable.
5. Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
6. Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise noted.
7. Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
8. Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible to construct any vertical adjustments necessary to clear sewer, storm drain or other utilities as necessary including valve boxes and hydrant spools to proper grade.
9. Field verify all existing and/or proposed Roof Drain/Roof Drain down spout connections to Storm Water System with Civil, Plumbing & Architectural plans. Notify Engineer of any discrepancies.
10. All gravity flow utility lines shall be installed prior to any pressurized utilities unless written permission is obtained from the engineer of record before construction begins.
11. Maintain water service throughout construction period.
12. Water line shall be installed with minimum 3.5 feet of cover.
13. Maintain sewer service throughout construction to existing buildings (provide by-pass pumping, if necessary).

UTILITY PIPING MATERIALS:
All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

CULINARY SERVICE LATERALS
1. 3/4" to 2" diameter pipe – copper tube ASTM B, Type K, Soft Temper
2. Over 2" diameter pipe – AWWA C-900 Class 150 pipe

WATER MAIN LINES AND FIRE LINES
1. Pipe material as shown on utility plan view or to meet city standards.

SANITARY SEWER LINES
1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D 3034, Type PSM, SDR 35

STORM DRAIN LINES
1. 12" pipes or smaller – Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
2. 12" or larger – Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover, Class IV for 13' to 21' of cover, Class V for 21' to 32' of cover, and Special Design for cover greater than 32 feet.

NATURAL GAS SERVICE LATERALS (QUESTAR)
1. PLASTIC PIPING MATERIAL: Plastic polyethylene pipe materials and compression couplings must be approved for natural gas applications and must be installed underground. All plastic pipe and fittings must conform to ASTM D2513 (60 psi and above high density pipe approved 3408).
2. Plastic pipe must be joined by individuals qualified in the heat fusion method of connecting pipe and fittings or approved mechanical fittings. A minimum number 18 insulated yellow copper tracer wire shall be installed with underground nonmetallic gas piping and shall terminate above grade at each end. Tracer wire shall not come in contact with plastic piping.
3. Risers and prefabricated risers inserted with plastic pipe shall conform to ASTM D2513, shall be metallic, have a space of 10 inches from the bottom of the service valve and grade, and shall be wrapped or coated to a point at least 6 inches above grade or protected in an approved manner. When a riser connects underground to plastic pipe, the underground horizontal metallic portion of the riser shall extend at least 12 inches before connecting to the plastic pipe by means of an approved transition fitting, adapter or heat fusion.
4. Plastic pipe used underground for customer fuel lines must be approved polyethylene material and be buried a minimum of 12 inches. It shall not be used inside buildings or above ground. PVC (Polyvinyl Chloride) is not approved for piping systems in Questar Gas's service area. Individual gas lines (metallic or plastic) to single outside appliance (outside lights, grilles, etc.) shall be installed a minimum of 8 inches below grade, provided such installation is approved and installed in locations not susceptible to physical damage.

CAUTION NOTICE TO CONTRACTOR

The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the propose improvements shown on the plans.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property: that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

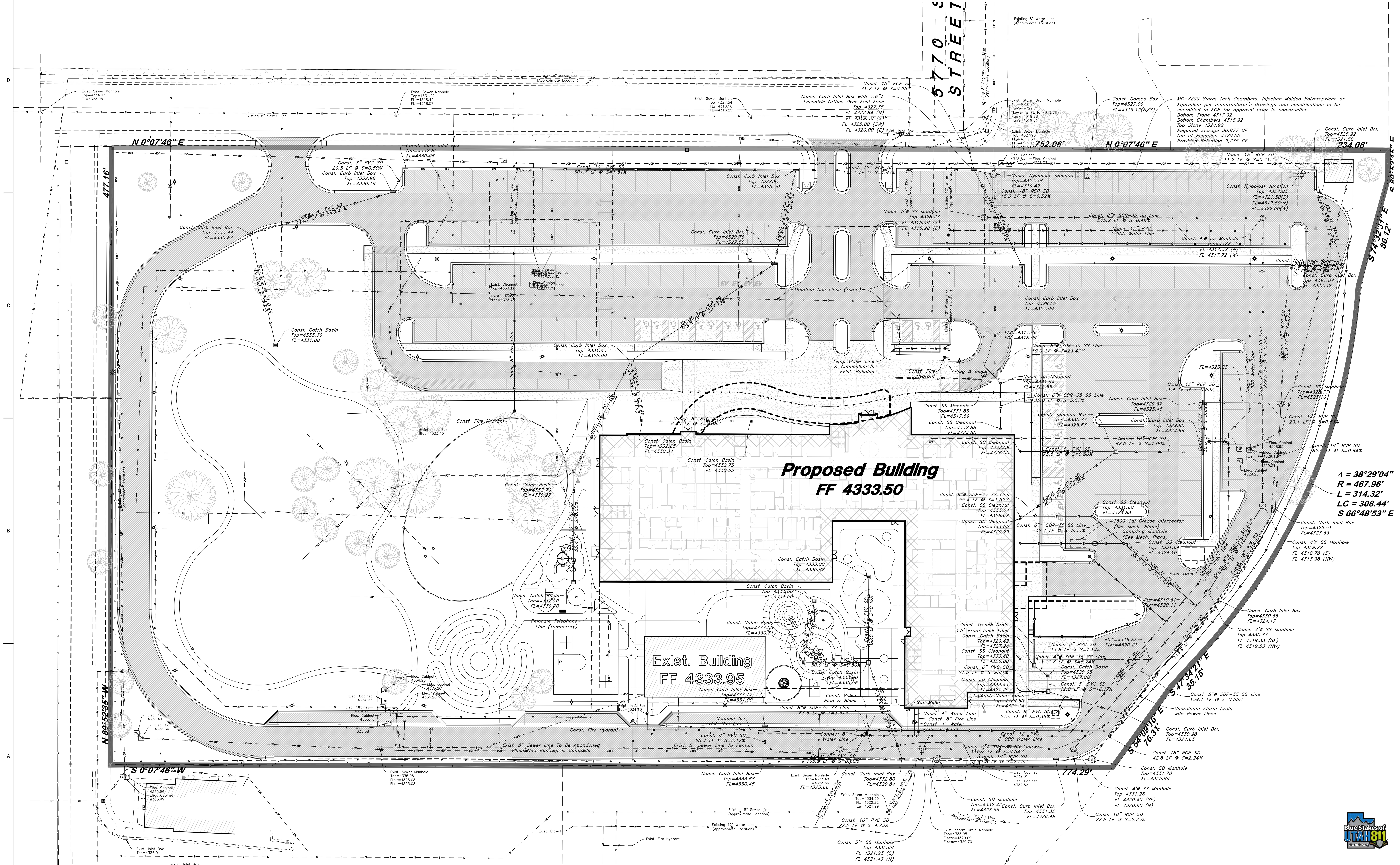
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Graphic Scale

Legend
(Note: All items may not appear on drawing)

San. Sewer Manhole	(S)	Top of Walk	TW
Water Manhole	(W)	Top of Concrete	TCN
Storm Drain Manhole	(SD)	Natural Ground	NG
Cleanout	(CO)	Finish Grade	FG
Electrical Manhole	(E)	Match Existing	ME
Catch Basins		Fire Department Connection	FDC
Exist. Fire Hydrant		Finish Contour	—90—
Fire Hydrant		Exist. Contour	--90--
Fire Department Connection		Finish Grade	95.33TA
Post Indicator Valve		Exist. Grade	95.72TA
Exist. Water Valve		Ridge Line	—R—
Water Valve		Direction of Flow	
Sanitary Sewer	—S—	Existing Asphalt	
Culinary Water	—W—	New Asphalt	
Gas Line	—G—	Heavy Duty Asphalt	
Irrigation Line	—IW—	Existing Concrete	
Storm Drain	—SD—	New Concrete	
Telephone Line	—T—	Demo'd Road Base	
Secondary Waterline	—SW—	Spill Curb & Gutter	
Power Line	—P—	Demo Tree	
Fire Line	—F—	Tree To Remain in Place	
Land Drain	—LD—		
Power pole			
Power pole w/guy			
Light Pole			
Fence	—x—x—x—		
Flowline of ditch			
Overhead Power line	—OHP—		
Corrugated Metal Pipe	CMP		
Concrete Pipe	CP		
Reinforced Concrete Pipe	RCP		
Ductile Iron	DI		
Polyvinyl Chloride	PVC		
Top of Asphalt	TA		
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Centerline	CL		
Flowline	FL		
Finish Floor	FF		
Top of Curb	TC		
Top of Wall	TWL		



HDR ARCHITECTURE P.C
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Intermountain Health

PRIMARY CHILDREN'S WASATCH CANYONS BEHAVIORAL HEALTH REPLACEMENT PROJECT

5770 SOUTH 1500 WEST
TAYLORSVILLE, UTAH 84123

CONSTRUCTION DOCUMENT

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Interior Designer	RUBY T.
Equipment Planner	- -
Wayfinding	WENDY W. / JEFF Z.

Project Number	10346477
Original Issue	06/28/2023

LICENSED PROFESSIONAL ENGINEER No. 166484 MARK EUGENE BABBITT 6-12-23 STATE OF UTAH

Sheet Name
UTILITY PLAN (PHASE 1)

Scale

Sheet Number
CU100

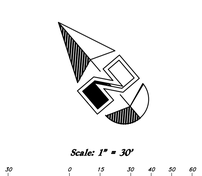
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CONSTRUCTION DOCUMENT

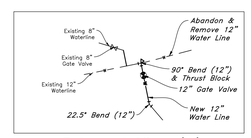
Blue Stakes of UTAH 811 Bluestakes.org

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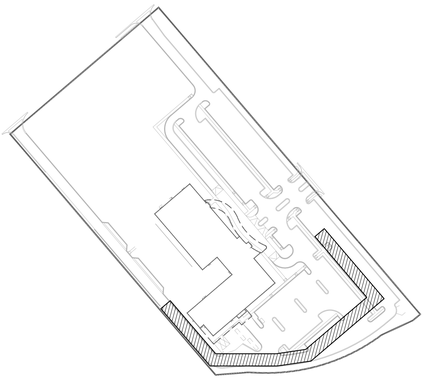
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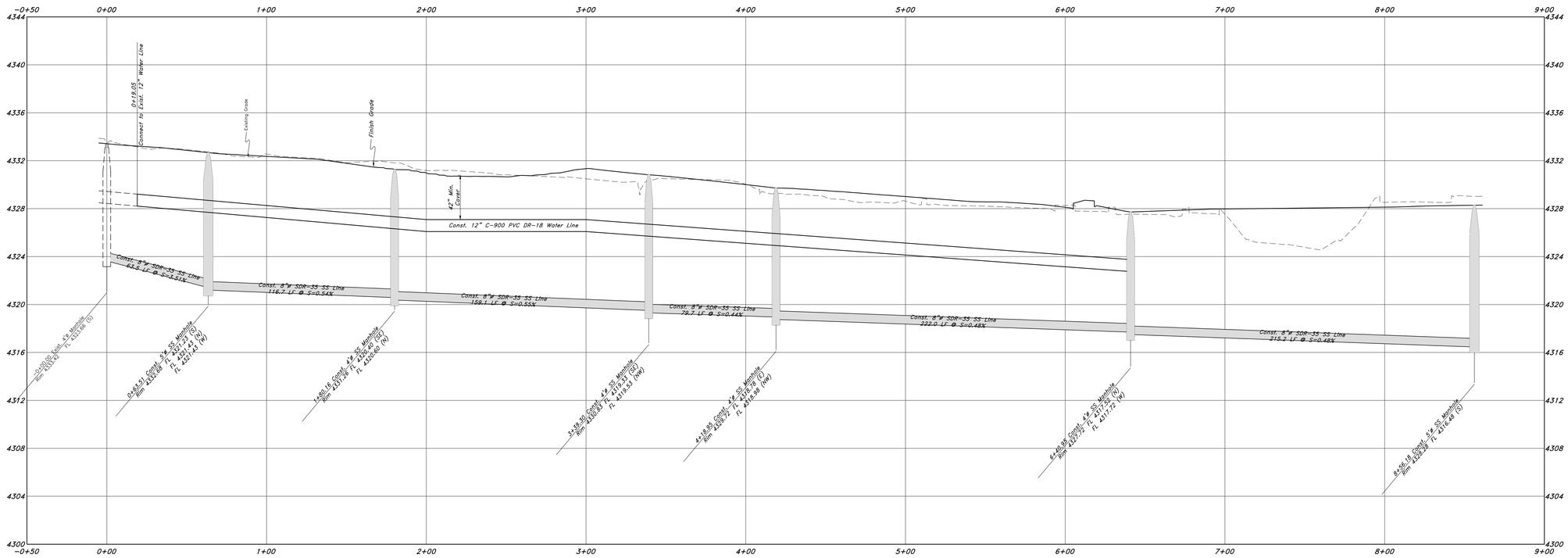
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Enlarged View 'A'





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LICENSED PROFESSIONAL ENGINEER
No. 166184
MARK EUGENE BABBITT
6-12-23
STATE OF UTAH

Sheet Name

PLAN & PROFILE - SEWER & WATER

Scale

Sheet Number

PP101

Project Status

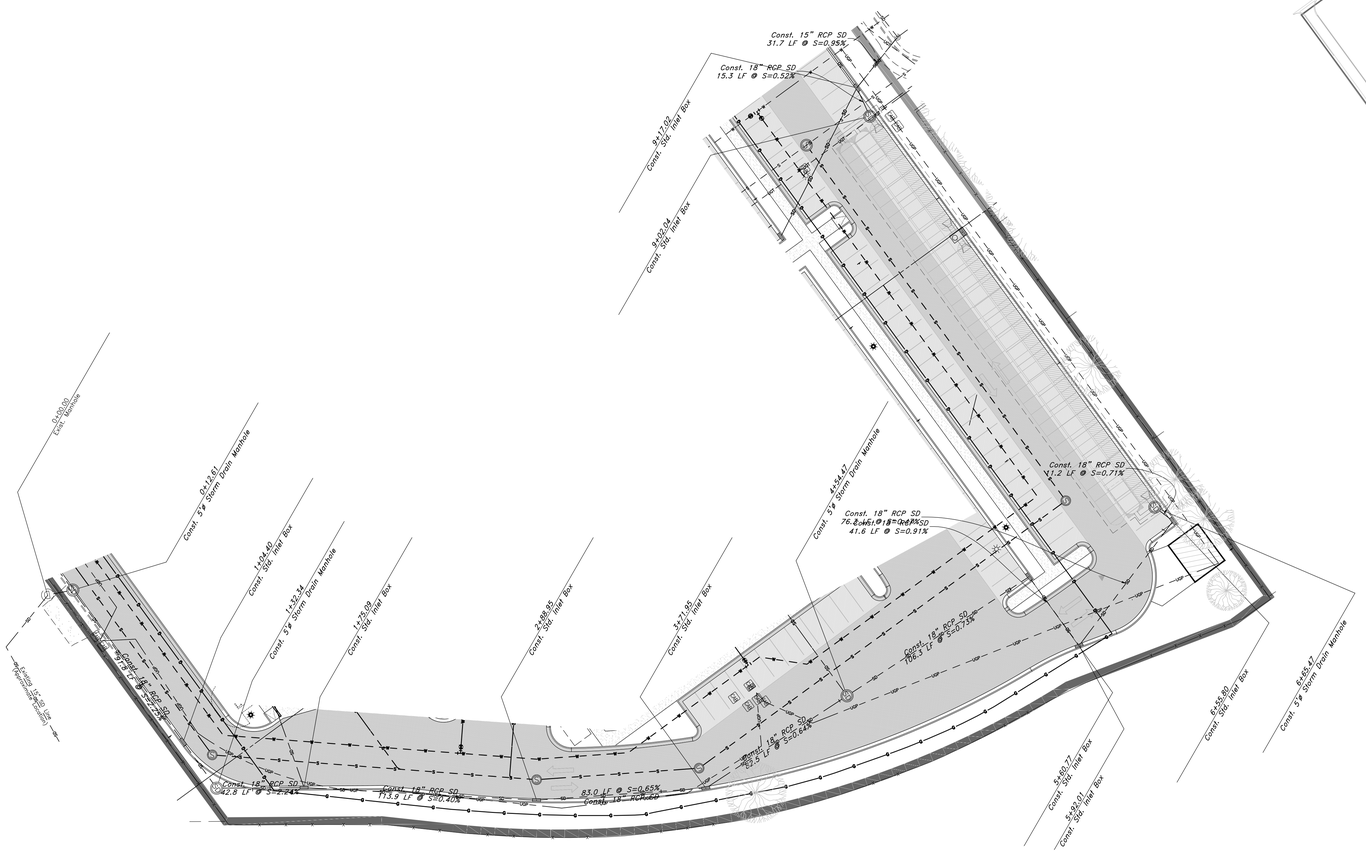
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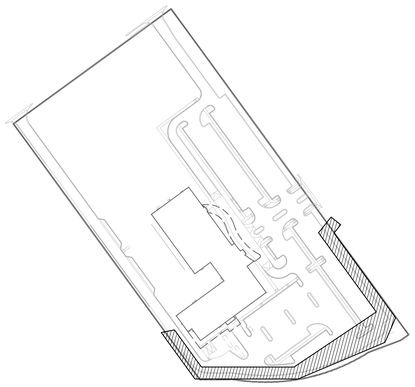
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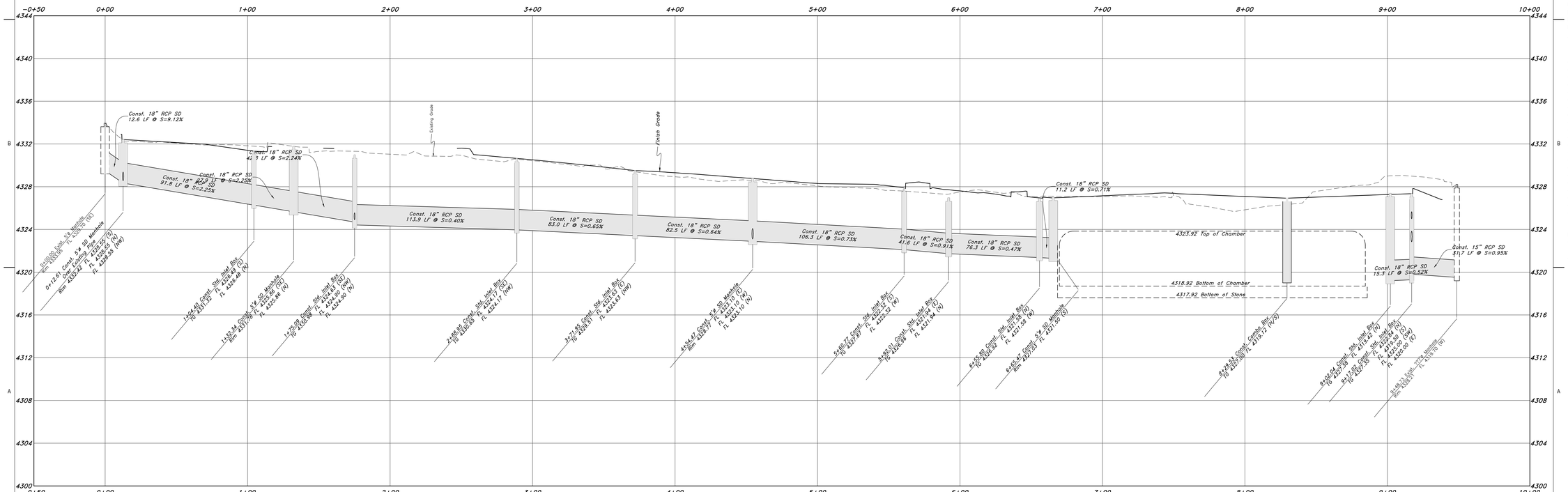
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Graphic Scale









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Sheet Name

PLAN & PROFILE - STORM DRAIN

Scale

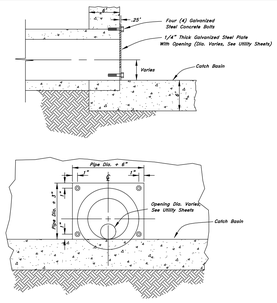
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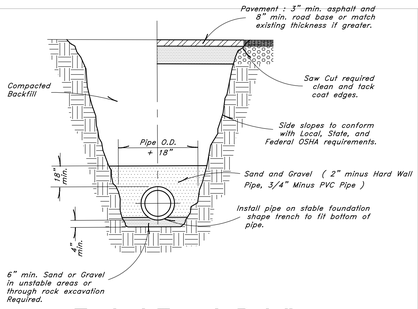
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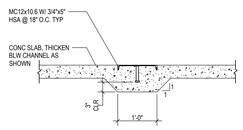


16 Orifice Plate Detail



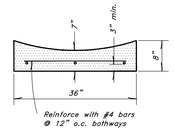
15 Typical Trench Detail

TRENCH



14 Thickened Slab at Compactor Rail

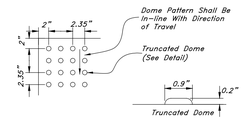
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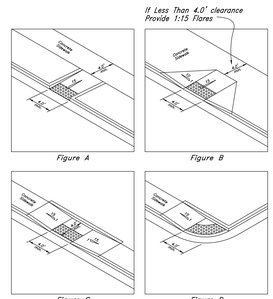
13 Typical Waterway Detail

WATWAY

Not to Scale



All Sidewalk Curb Ramps Shall Have Detectable Warning Surfaces That Extend The Full Width Of Curb Ramp and 36" Deep. Ramp shall be different color, 20% minimum different shade, than rest of sidewalk

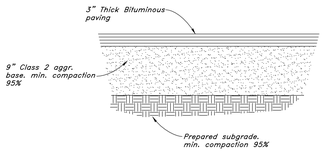


TRUNCATED DOMES TEXTURE @ ALL HAZARDOUS ROUTES.

NOTE: CURB HEIGHT VARIES, SEE CIVIL PLANS FOR ELEVATIONS.

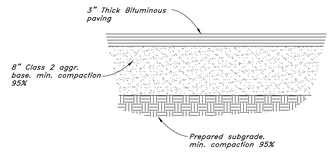
9 Typical ADA Ramp Detail

Not to Scale



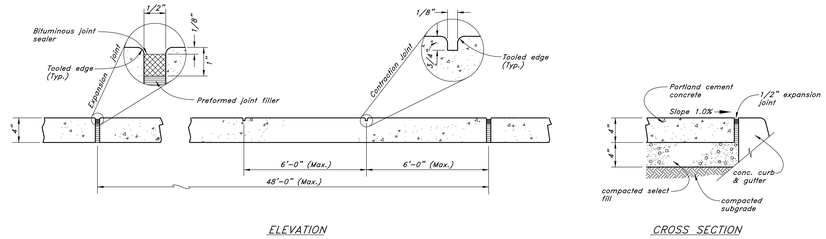
12 Typical Bituminous Pavement Section - Heavy Duty

Not to Scale



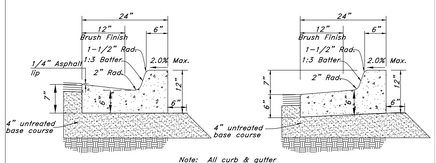
11 Typical Bituminous Pavement Section - Light Duty

Not to Scale



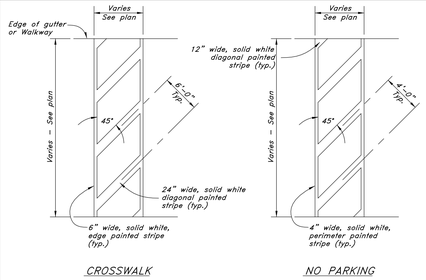
10 Concrete Sidewalk

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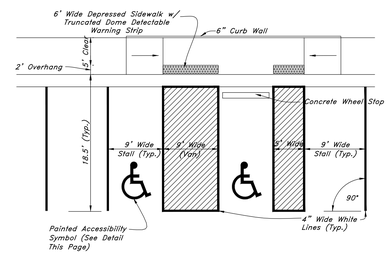
8 Typical Section - 24" Curb & Gutter

Not to Scale



7 Striping

Not to Scale

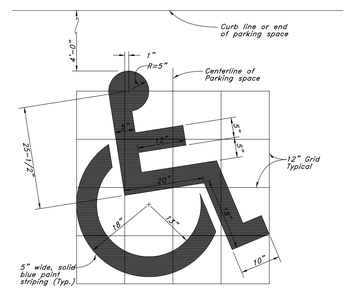


6 Typical Accessible Parking Striping Plan

Not to Scale

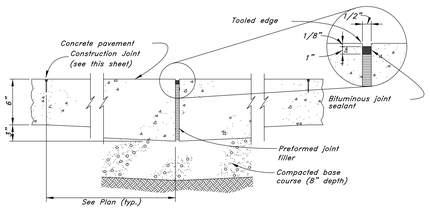
5 Typical Parking Lot Striping Plan

Not to Scale



4 Handicap Symbol

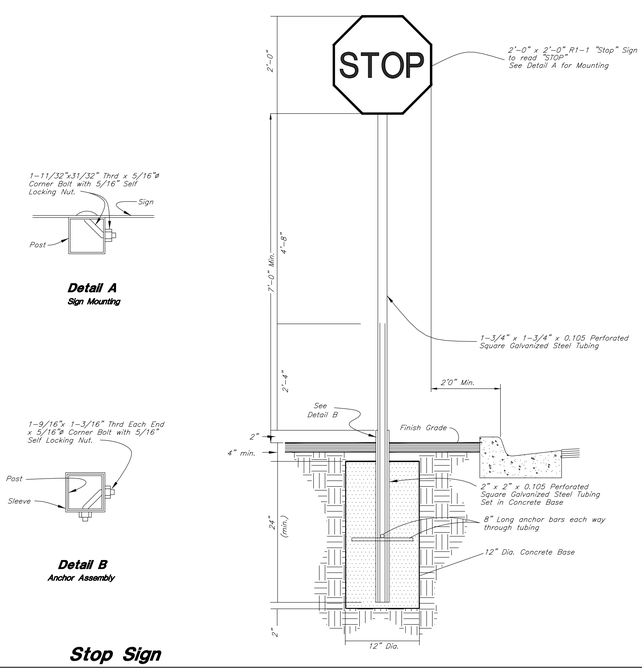
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NOTE:
For information not otherwise shown or noted see concrete pavement section.
For pavement thickness, see site plan.

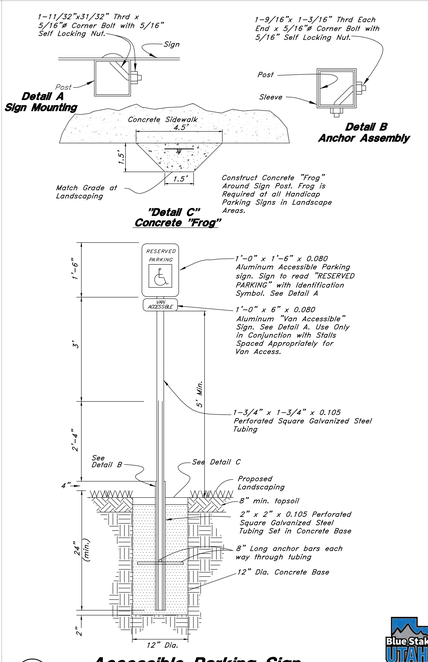
3 Portland Cement Concrete Pavement

Not to Scale



2 Stop Sign

Not to Scale



1 Accessible Parking Sign

Not to Scale

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Intermountain Health

PRIMARY CHILDREN'S
WASATCH CANYONS
BEHAVIORAL HEALTH
REPLACEMENT
PROJECT

5770 SOUTH 1500 WEST
TAYLORSVILLE, UTAH 84123

CONSTRUCTION DOCUMENT

Project Manager	STEVE K.
Project Designer	ERIC M / BRIAN S. / ANNETTE H / BRIAN G.
Project Architect	NEIL C.
Landscape Architect	ARCSITIO DESIGN
Civil Engineer	GREAT BASIN ENGINEERS
Structural Engineer	REAVELEY ENGINEERS
Mechanical Engineer	VBFA
Electrical Engineer	SPECTRUM ENGINEERS
Plumbing Engineer	VBFA
Interior Designer	RUBY T.
Equipment Planner	--
Wayfinding	WENDY W. / JEFF Z.

Project Number	10346477
Original Issue	06/28/2023

LICENSED PROFESSIONAL ENGINEER
No. 166484
MARK EUGENE BABBITT
4-12-23
STATE OF UTAH

Sheet Name
DETAIL SHEET

Scale

Sheet Number
CD500

Project Status
CONSTRUCTION DOCUMENT

Blue Stakes of Utah 811

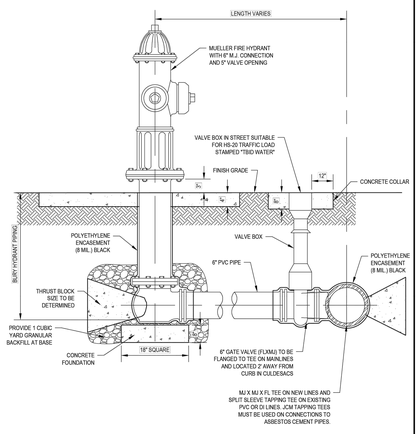
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FIRE HYDRANT CONNECTION NOTES:

1. CONCRETE SHALL BE INSTALLED AS FOLLOWS: IN PARKSTRIP A SQUARE WITH SIDE DIMENSIONS EQUAL THE WIDTH OF THE PARKSTRIP. OUTSIDE PARKSTRIP - 5' SQUARE.
2. LEVEL & ADJUST LID & FRAME TO FINISH SURFACE (1/4" MAX BELOW SURFACE).
3. FM GREASE REQUIRED ON BOLTS. WRAP FITTINGS WITH 8 MIL POLYETHYLENE WRAP AND TAPE.
4. BOLLARDS ARE REQUIRED AROUND HYDRANTS WHERE NEEDED FOR PROTECTION AS DETERMINED BY TBID.

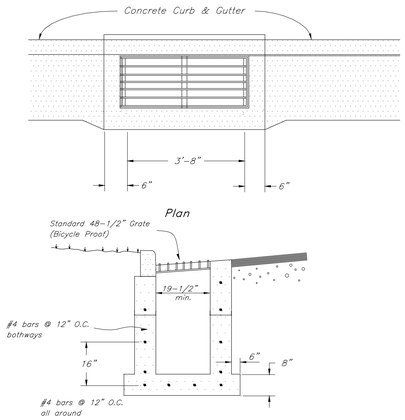
UPDATED DEC 2021

	FIRE HYDRANT CONNECTION NOTES	TB-209 PAGE 1 OF 2

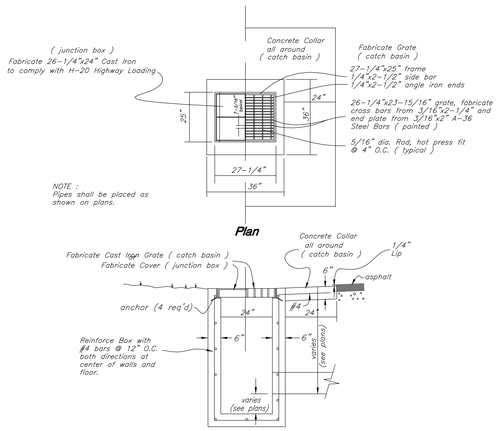


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	FIRE HYDRANT CONNECTION NOT TO SCALE	TB-209 PAGE 2 OF 2



2 Typical Catch Basin in curb & gutter



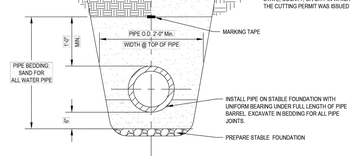
1 Typical Catch Basin

TYPICAL WATER TRENCH:

1. BLUE STAKES SHALL BE CONTACTED 48 HOURS BEFORE ANY EXCAVATION IS COMMENCED.
2. BACKFILL, ROAD BASE, AND PAVEMENT CONSTRUCTION SHALL CONFORM TO REQUIREMENTS, STANDARDS, AND REGULATIONS OF THE ROADWAY JURISDICTION.
3. TBID RECOMMENDS THE CONTRACTOR MEET ALL TRENCH SAFETY REQUIREMENTS ESTABLISHED BY OSHA & UOSHA.
4. THE DISTRICT INSPECTOR MAY REQUIRED UNSUITABLE MATERIALS BENEATH THE PIPE ZONE TO BE OVER-EXCAVATED, BACKFILLED, AND COMPACTED TO 95% MAX DENSITY.
5. EXCAVATE AT PIPE BELLS TO ENSURE PIPE IS SUPPORTED PROPERLY ALONG ITS ENTIRE LENGTH
6. PERMITS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.

UPDATED DEC 2021

	TYPICAL WATER TRENCH SECTION NOTES	TB-201 PAGE 1 OF 2



UPDATED DEC 2021

	TYPICAL WATER TRENCH SECTION NOT TO SCALE	TB-201 PAGE 2 OF 2

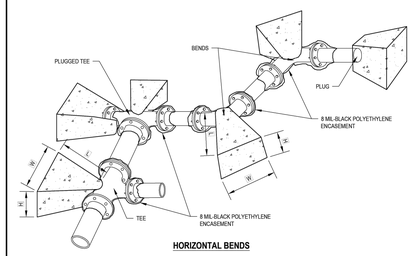
THRUST BLOCKING DETAIL NOTES:

1. 8 MIL-BLACK POLYETHYLENE ENCASEMENT SHALL BE PROVIDED FOR ALL FITTINGS, VALVES, FIRE HYDRANTS, AND COUPLINGS IN ACCORDANCE WITH AWWA C105.
2. FM GREASE REQUIRED ON ALL BOLTS.
3. SIZE BLOCKS BASED UPON 200 PSI LINE PRESSURE AND SPECIFIC SOIL BEARING VALUE OF CONSTRUCTION SITE.
4. ALL THRUST BLOCK BEARING FACES SHALL BE POURED AGAINST UNDISTURBED SOIL OR AN APPROVED, COMPACTED BACKFILL.
5. THRUST BLOCK SIZES SHOWN IN THE TABLE BELOW ARE FOR HORIZONTAL BENDS BASED ON 200PSI OPERATING PRESSURE AND 1500 LBS/SQ FT SOIL BEARING PRESSURE. THRUST BLOCK SIZES MAY NEED TO BE ADJUSTED TO CONFORM WITH PROJECT SPECIFIC CONDITIONS. THRUST BLOCKS FOR VERTICAL BENDS TO BE DESIGNED BY ENGINEER.

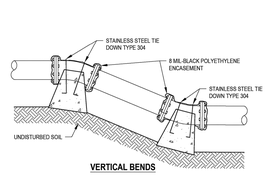
	11.25° BEND			22.5° BEND			45° BEND			90° BEND			TEE			DEAD END		
	L	W	H	L	W	H	L	W	H	L	W	H	L	W	H	L	W	H
6-INCH	0.8'	1.0'	1.0'	1.2'	1.3'	1.3'	1.6'	1.9'	1.9'	2.2'	2.5'	2.5'	1.8'	2.1'	2.1'	1.8'	2.1'	2.1'
8-INCH	1.1'	1.3'	1.3'	1.5'	1.8'	1.8'	2.1'	2.5'	2.5'	2.9'	3.3'	3.3'	2.4'	2.8'	2.8'	2.4'	2.8'	2.8'
10-INCH	1.4'	1.6'	1.6'	1.9'	2.2'	2.2'	2.6'	3.0'	3.0'	3.6'	4.1'	4.1'	3.0'	3.5'	3.5'	3.0'	3.5'	3.5'
12-INCH	1.6'	1.9'	1.9'	2.3'	2.6'	2.6'	3.1'	3.6'	3.6'	4.3'	4.9'	4.9'	3.6'	4.1'	4.1'	3.6'	4.1'	4.1'

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	THRUST BLOCKING NOTES	TB-202 PAGE 1 OF 2



HORIZONTAL BENDS



VERTICAL BENDS

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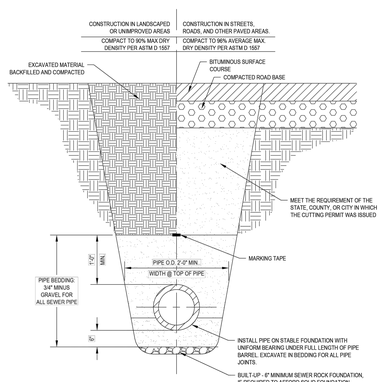
	THRUST BLOCKING NOTES	TB-202 PAGE 2 OF 2

TYPICAL SEWER TRENCH NOTES:

1. BLUE STAKES SHALL BE CONTACTED 48 HOURS BEFORE ANY EXCAVATION IS COMMENCED.
2. BACKFILL, ROAD BASE, AND PAVEMENT CONSTRUCTION SHALL CONFORM TO REQUIREMENTS, STANDARDS, AND REGULATIONS OF THE ROADWAY JURISDICTION.
3. TBID RECOMMENDS THE CONTRACTOR MEET ALL TRENCH SAFETY REQUIREMENTS ESTABLISHED BY OSHA & UOSHA.
4. THE DISTRICT INSPECTOR MAY REQUIRE UNSUITABLE MATERIALS BENEATH THE PIPE ZONE TO BE OVER-EXCAVATED, BACKFILLED, AND COMPACTED TO 95% MAX DENSITY.
5. EXCAVATE AT PIPE BELLS TO ENSURE PIPE IS SUPPORTED PROPERLY ALONG ITS ENTIRE LENGTH
6. PERMITS SHALL BE OBTAINED AND PAID FOR BY THE CONTRACTOR.
7. SEWER LINES SHALL BE PVC SDR35 PIPE. MINIMUM SEWER MAIN SIZE SHALL BE 8".
8. PIPE LAYING OPERATIONS SHALL PROCEED IN AN UPHILL DIRECTION WITH ALL BELLS FACING UPHILL.
9. PIPE PLUGS SHALL BE INSTALLED DURING CONSTRUCTION AT THE END OF EACH LENGTH OF PIPE TO PREVENT DEBRIS FROM ENTERING PIPE.

UPDATED DEC 2021

	TYPICAL SEWER TRENCH NOTES	TB-101 PAGE 1 OF 2



UPDATED DEC 2021

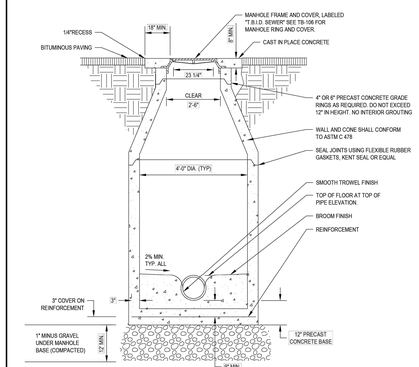
	TYPICAL SEWER TRENCH NOT TO SCALE	TB-101 PAGE 2 OF 2

TYPICAL MANHOLE SECTION NOTES:

1. CONCENTRIC OR ECCENTRIC MANHOLE CONES ARE ACCEPTABLE .
2. NO STEPS IN CONE OR ON MANHOLE WALL IN CONCENTRIC MANHOLES.STEPS SHALL BE ALIGNED OVER THE SHELF OF ECCENTRIC MANHOLES
3. MANHOLES SHALL BE OF WATERTIGHT CONSTRUCTION, UTILIZING EITHER BITUMASTIC SEALANT OR RUBBER GASKET BETWEEN ADJACENT MANHOLE SECTIONS.
4. MANHOLE SHALL BE 5'-0" Ø IF SEWER MAIN IS GREATER THAN 10" Ø, OR IF THREE OR MORE SEWER MAIN PIPES CONNECT TO MANHOLE, OR IF OTHERWISE SPECIFIED ON DRAWINGS.
10. ALL MANHOLES WILL BE VACUUM TESTED. SEE SECTION 33 31 00 OF TBID STANDARD SPECIFICATIONS FOR MANHOLE TESTING REQUIREMENTS
11. LEVEL & ADJUST LID & FRAME TO FINISH GRADE (1/4" MAX BELOW SURFACE).
12. CONCRETE COLLARS REQUIRED IN PAVED AREAS.
13. MANHOLE REQUIRED ON ALL SEWER MAIN STUB ENDS.
14. THERE IS TO BE A 0.2' DROP THROUGH EVERY MANHOLE.
15. INSTALL SUITABLE BARRIERS OR COVERS DURING CONSTRUCTION TO PREVENT DEBRIS FROM ENTERING SEWER MAIN PIPING VIA MANHOLES.
16. COMPACT TO 96% MAX DENSITY UNDER PAVEMENTS AND IMPROVED AREAS. COMPACT TO 90% MAX DENSITY IN UNIMPROVED AREAS.
17. SEE TB-104 FOR ADDITIONAL INFORMATION.

UPDATED DEC 2021

	TYPICAL MANHOLE SECTION NOTES	TB-105 PAGE 1 OF 2



UPDATED DEC 2021

	TYPICAL MANHOLE SECTION NOT TO SCALE	TB-105 PAGE 2 OF 2

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Intermountain Health

PRIMARY CHILDREN'S WASATCH CANYONS BEHAVIORAL HEALTH REPLACEMENT PROJECT

5770 SOUTH 1500 WEST
TAYLORSVILLE, UTAH 84123

CONSTRUCTION DOCUMENT

Project Manager	STEVE K.
Project Designer	ERIC M./ BRIAN S. / ANNETTE H./ BRIAN G.
Project Architect	NEIL C.
Landscape Architect	ARCSITIO DESIGN
Civil Engineer	GREAT BASIN ENGINEERS
Structural Engineer	REAVELEY ENGINEERS
Mechanical Engineer	VBFA
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Project Number	10346477
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LICENSED PROFESSIONAL ENGINEER
No. 166484
MARK EUGENE BABBITT
4-12-23
STATE OF UTAH

Sheet Name
DETAIL SHEET

Scale

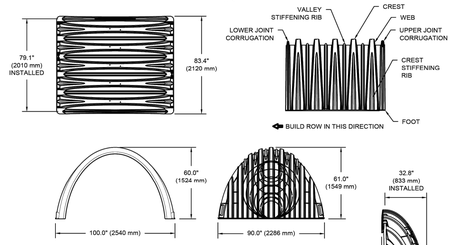
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Project Status
CONSTRUCTION DOCUMENT

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MC-7200 TECHNICAL SPECIFICATION

NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	100.0" X 60.0" X 79.1"	(2540 mm X 1524 mm X 2010 mm)
CHAMBER STORAGE	175.9 CUBIC FEET	(4.98 m³)
MINIMUM INSTALLED STORAGE*	267.3 CUBIC FEET	(7.56 m³)
WEIGHT (NOMINAL)	205 lbs.	(92.9 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	90.0" X 61.0" X 32.8"	(2286 mm X 1549 mm X 833 mm)
END CAP STORAGE	39.5 CUBIC FEET	(1.12 m³)
MINIMUM INSTALLED STORAGE*	115.3 CUBIC FEET	(3.26 m³)
WEIGHT (NOMINAL)	90 lbs.	(40.8 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

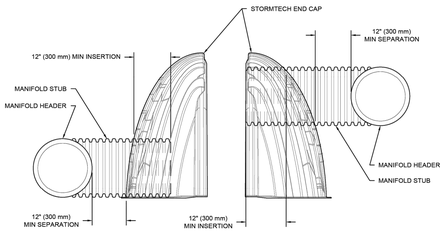
PART #	STUB	B	C
MC7200IEPP06T	6" (150 mm)	42.54" (1081 mm)	---
MC7200IEPP06B		---	0.86" (22 mm)
MC7200IEPP08T	8" (200 mm)	40.50" (1029 mm)	---
MC7200IEPP08B		---	1.01" (26 mm)
MC7200IEPP10T	10" (250 mm)	38.37" (975 mm)	---
MC7200IEPP10B		---	1.33" (34 mm)
MC7200IEPP12T	12" (300 mm)	35.69" (907 mm)	---
MC7200IEPP12B		---	1.55" (39 mm)
MC7200IEPP15T	15" (375 mm)	32.72" (831 mm)	---
MC7200IEPP15B		---	1.70" (43 mm)
MC7200IEPP18T	18" (450 mm)	29.36" (746 mm)	---
MC7200IEPP18TW		---	
MC7200IEPP18B		---	1.97" (50 mm)
MC7200IEPP18BW			
MC7200IEPP24T	24" (600 mm)	23.05" (585 mm)	---
MC7200IEPP24TW			
MC7200IEPP24B		---	2.26" (57 mm)
MC7200IEPP24BW			
MC7200IEPP30BW	30" (750 mm)	---	2.95" (75 mm)
MC7200IEPP36BW	36" (900 mm)	---	3.25" (83 mm)
MC7200IEPP42BW	42" (1050 mm)	---	3.55" (90 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

CUSTOM PREFABRICATED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-7200 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'B' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

MC-SERIES END CAP INSERTION DETAIL

NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

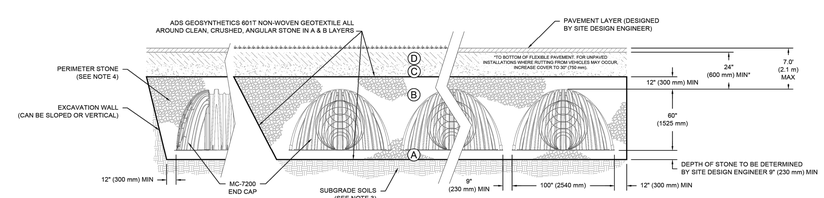
NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x101
2. MC-7200 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 450 LBS/FT/% . THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

ACCEPTABLE FILL MATERIALS: STORMTECH MC-7200 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 4	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

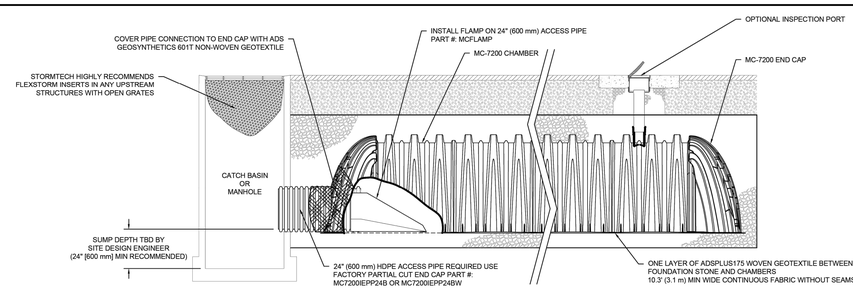
STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



MC-7200 ISOLATOR ROW PLUS DETAIL

NTS

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Intermountain Health

PRIMARY CHILDREN'S WASATCH CANYONS BEHAVIORAL HEALTH REPLACEMENT PROJECT

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CONSTRUCTION DOCUMENT

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Structural Engineer	REAVELEY ENGINEERS
Mechanical Engineer	VBFA
Electrical Engineer	SPECTRUM ENGINEERS
Plumbing Engineer	VBFA
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Project Number	10346477
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LICENSED PROFESSIONAL ENGINEER — No. 166484 — MARK EUGENE BABBITT — 04-12-23 — STATE OF UTAH

Sheet Name

DETAIL SHEET

Scale

Sheet Number

CD501

Project Status

CONSTRUCTION DOCUMENT

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SHEET 3 OF 5 | SHEET 4 OF 5 | SHEET 5 OF 5

THE DRAWINGS HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS UNDER THE DIRECTION OF THE SITE DESIGN ENGINEER OF RECORD. IT IS THE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCTS SHOWN ON THESE PLANS MEET OR EXCEED ALL LOCAL AND REGIONAL REGULATIONS. THE SITE DESIGN ENGINEER SHALL REVIEW THE DRAWINGS PRIOR TO CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE SITE DESIGN ENGINEER TO ENSURE THAT THE PRODUCTS SHOWN ON THESE PLANS MEET OR EXCEED ALL LOCAL AND REGIONAL REGULATIONS.

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