

OWTC HEALTH TECHNOLOGY BUILDING PARKING ISLANDS & STORM DRAINAGE



OWNER:
OGDEN-WEBER TECHNICAL COLLEGE
 200 N. Washington Blvd.
 Ogden, UT 84404
 Contact: Josh Ulm

ARCHITECT:
SANDERS ASSOCIATES ARCHITECTS
 2688 Grant Ave. Suite 100
 Ogden, UT 84401
 Contact: M. Shane Sanders, AIA
 Telephone: 801.621.7303

CIVIL:
GREAT BASIN ENGINEERING
 5746 S. 1475 E.
 Ogden, UT 84403
 Contact: Mark Babbitt, PE
 Telephone: 801.394.4515

LANDSCAPE:
GREAT BASIN ENGINEERING
 5746 S. 1475 E.
 Ogden, UT 84403
 Contact: James Zaugg, RLA
 Telephone: 801.394.4515

DRAWING INDEX
 GENERAL INFORMATION

GI001 COVER SHEET

CIVIL

- D100 OVERALL DEMOLITION PLAN
- C101 OVERALL SITE PLAN
- C201 GRADING & DRAINAGE PLAN
- C202 GRADING & DRAINAGE PLAN
- C301 UTILITY PLAN
- C302 UTILITY PLAN
- C501 DETAIL SHEET

LANDSCAPE

- LP100 OVERALL LANDSCAPE PLAN
- LP101 LANDSCAPE PLAN
- LI101 IRRIGATION PLAN
- LI501 IRRIGATION DETAILS



Consultant

OWTC HEALTH TECHNOLOGY BUILDING
PARKING ISLANDS & STORM DRAINAGE
 TECH COLLEGE CIRCLE
 OGDEN CITY, UT

Project Name

Issued		
No.	Date	Description

Revision		
No.	Date	Description

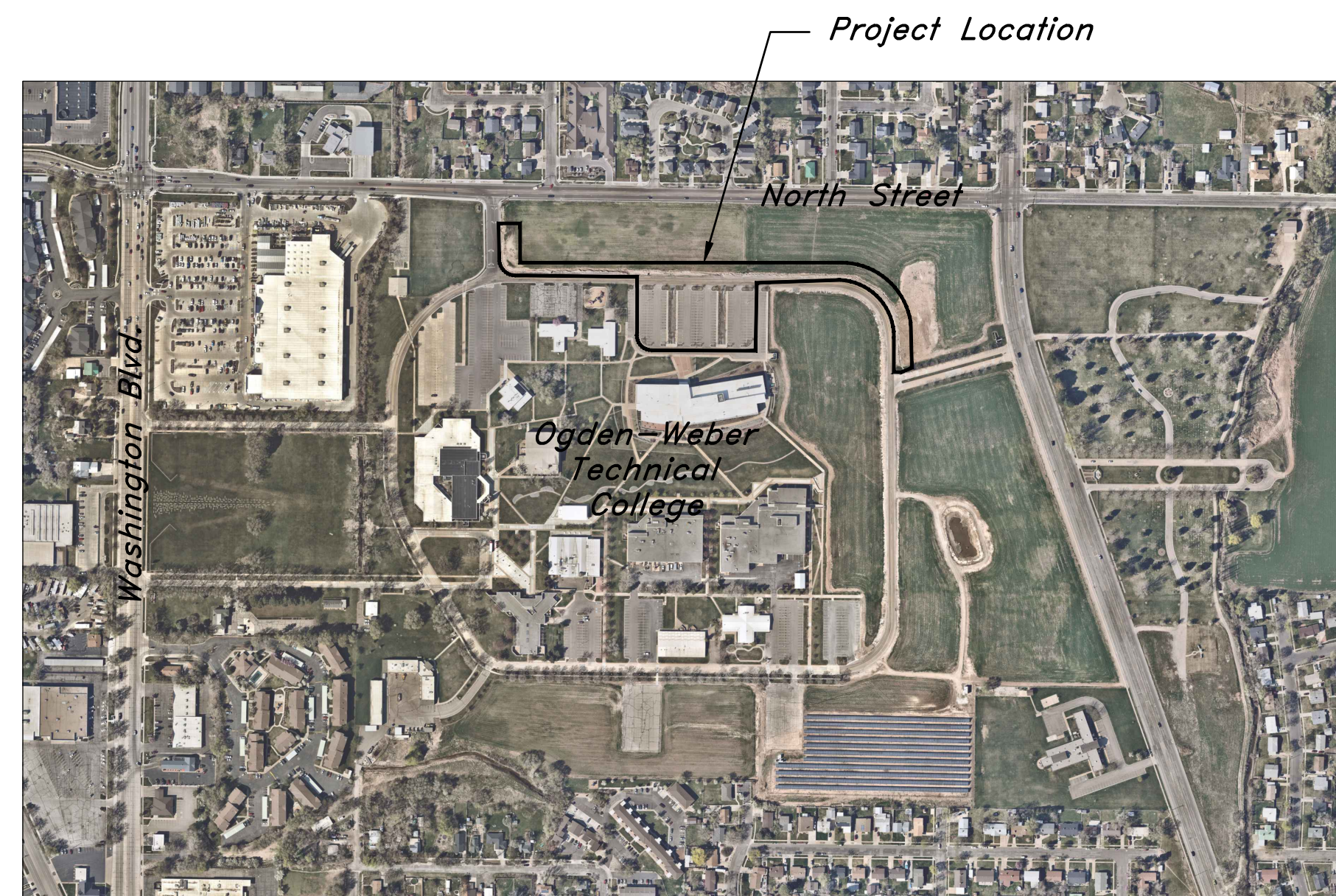
SAA Project No. 2023-33
 Drawing Title

COVER SHEET

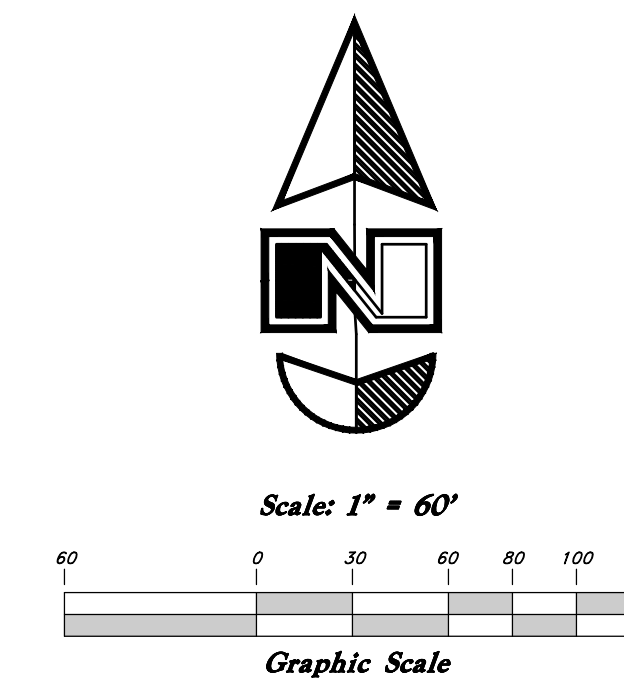
Sheet Number

GI001

- General Demolition Notes:**
- Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.
 - Refer to site improvement plans for more details on limits of removal.
 - Demolish existing buildings and clear from site. (Including removal of all footings and foundations.)
 - 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.
 - 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.
 - 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) Except where noted otherwise.
 - Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off-site.
 - DO NOT interrupt any services or disrupt the operation of any businesses shown outside the demolition limits.
 - 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)
 - Remove debris, rubbish, and other materials resulting from the demolition and site clearing operations from the site and dispose of in a legal manner.
 - 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.
 - 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.
 - 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.
 - Contractor shall verify with city any street removal, curb cuts, and any restoration required for utility line removal.
 - Contractor shall obtain all permits necessary for demolition from City, County, State or Federal Agencies as required.



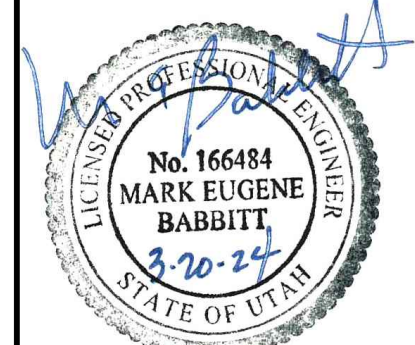
Vicinity Map



Legend

(Note: All items may not appear on drawing)

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Cleanout
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Fire Hydrant
- Fire Department Connection
- Post Indicator Valve
- Exist. Water Valve
- Water Valve
- Sanitary Sewer
- Culinary Water
- Gas Line
- Irrigation Line
- Storm Drain
- Telephone Line
- Secondary Waterline
- Power Line
- Fire Line
- Land Drain
- Power pole
- Power pole w/guy
- Light Pole
- Fence
- Flowline of ditch
- Overhead Power line
- Corrugated Metal Pipe
- Concrete Pipe
- Reinforced Concrete Pipe
- Ductile Iron
- Polyvinyl Chloride
- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Grade
- Match Existing
- Fire Department Connection
- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Existing Concrete
- New Concrete
- Demo'd Road Base
- Spill Curb & Gutter
- Demo Tree
- Tree To Remain in Place



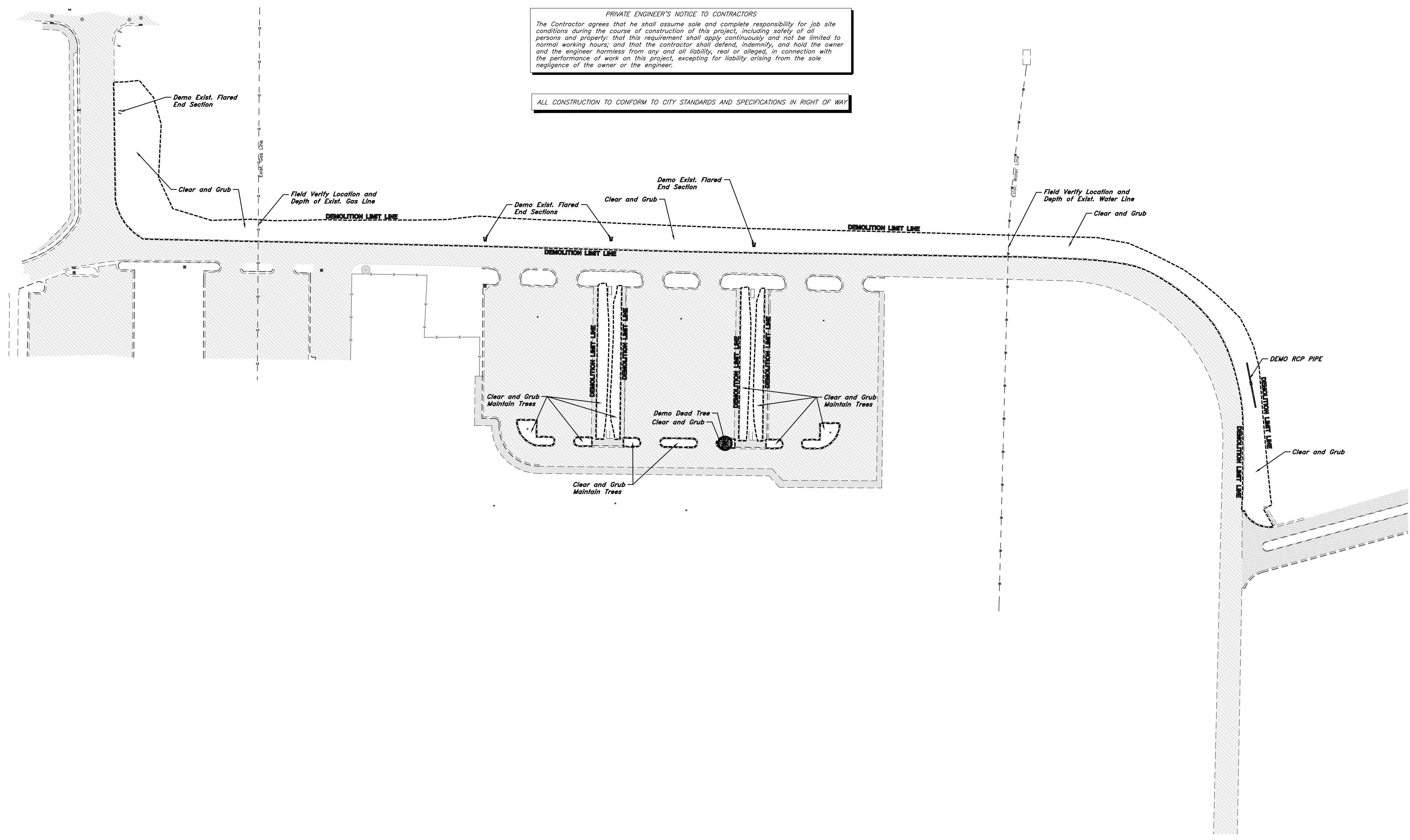
CAUTION NOTICE TO CONTRACTOR

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 upon 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



GREAT BASIN ENGINEERING

5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 594-4415 S.L.C. (801) 522-2222 FAX (801) 392-7544
 WWW.GREATBASINENGINEERING.COM

Overall Demolition Plan
OWTC Health Technology Building
Parking Islands & Storm Drainage

Ogdan-Weber Technical College
 College Circle
 Ogdan City, Weber County, Utah
 A part of Section 9, T8N, R1W, SE&M, U.S. Survey

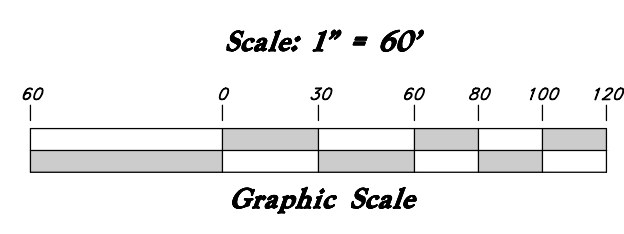
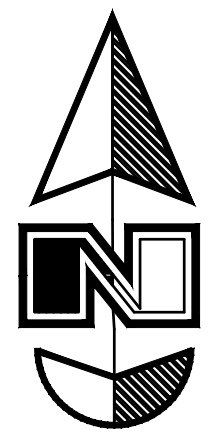


- General Site Notes:
1. Stalls designated as handicap will require a painted handicap symbol and sign. (See Details)
 2. Fire lane markings and signs to be installed as directed by the Fire Marshall.
 3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the 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.

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.

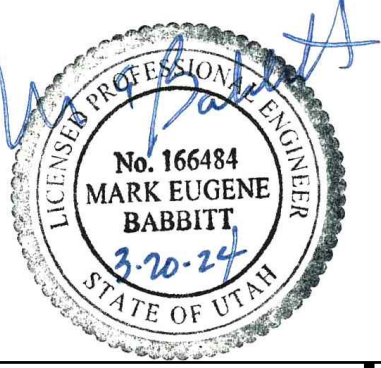
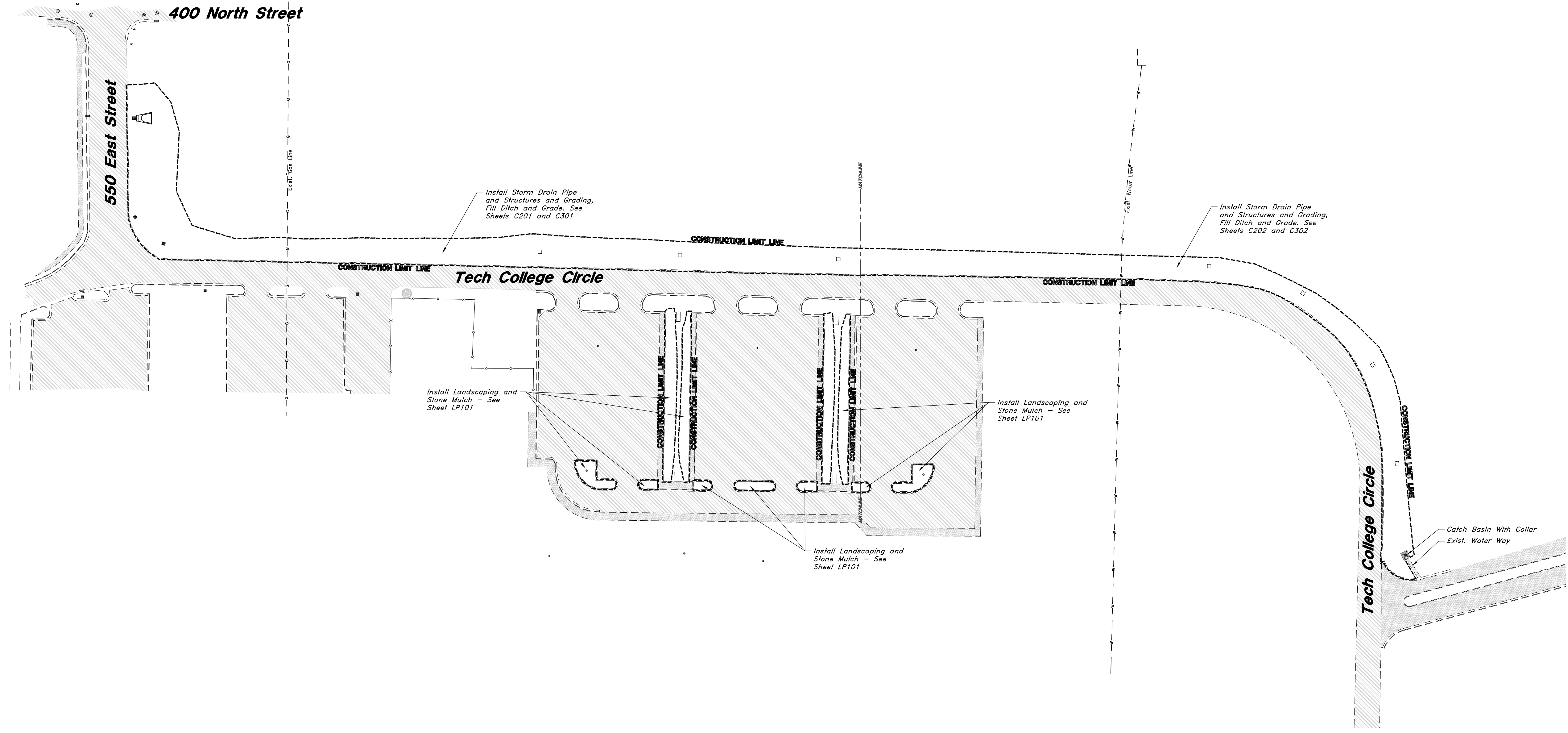
ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY



Legend

(Note: All items may not appear on drawing)

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Cleanout
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Fire Hydrant
- Fire Department Connection
- Post Indicator Valve
- Exist. Water Valve
- Water Valve
- Sanitary Sewer
- Culinary Water
- Gas Line
- Irrigation Line
- Storm Drain
- Telephone Line
- Secondary Waterline
- Power Line
- Fire Line
- Land Drain
- Power pole
- Power pole w/guy
- Light Pole
- Fence
- Flowline of ditch
- Overhead Power line
- Corrugated Metal Pipe
- Concrete Pipe
- Reinforced Concrete Pipe
- Ductile Iron
- Polyvinyl Chloride
- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Grade
- Match Existing
- Fire Department Connection
- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Existing Concrete
- New Concrete
- Demo'd Road Base
- Spill Curb & Gutter
- Demo Tree
- Tree To Remain in Place



GREAT BASIN ENGINEERING

5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 944-4515 S.L.C. (801) 520-0222 FAX (801) 392-7544
 WWW.GREATBASINENGINEERING.COM

Overall Site Plan

OWTC Health Technology Building

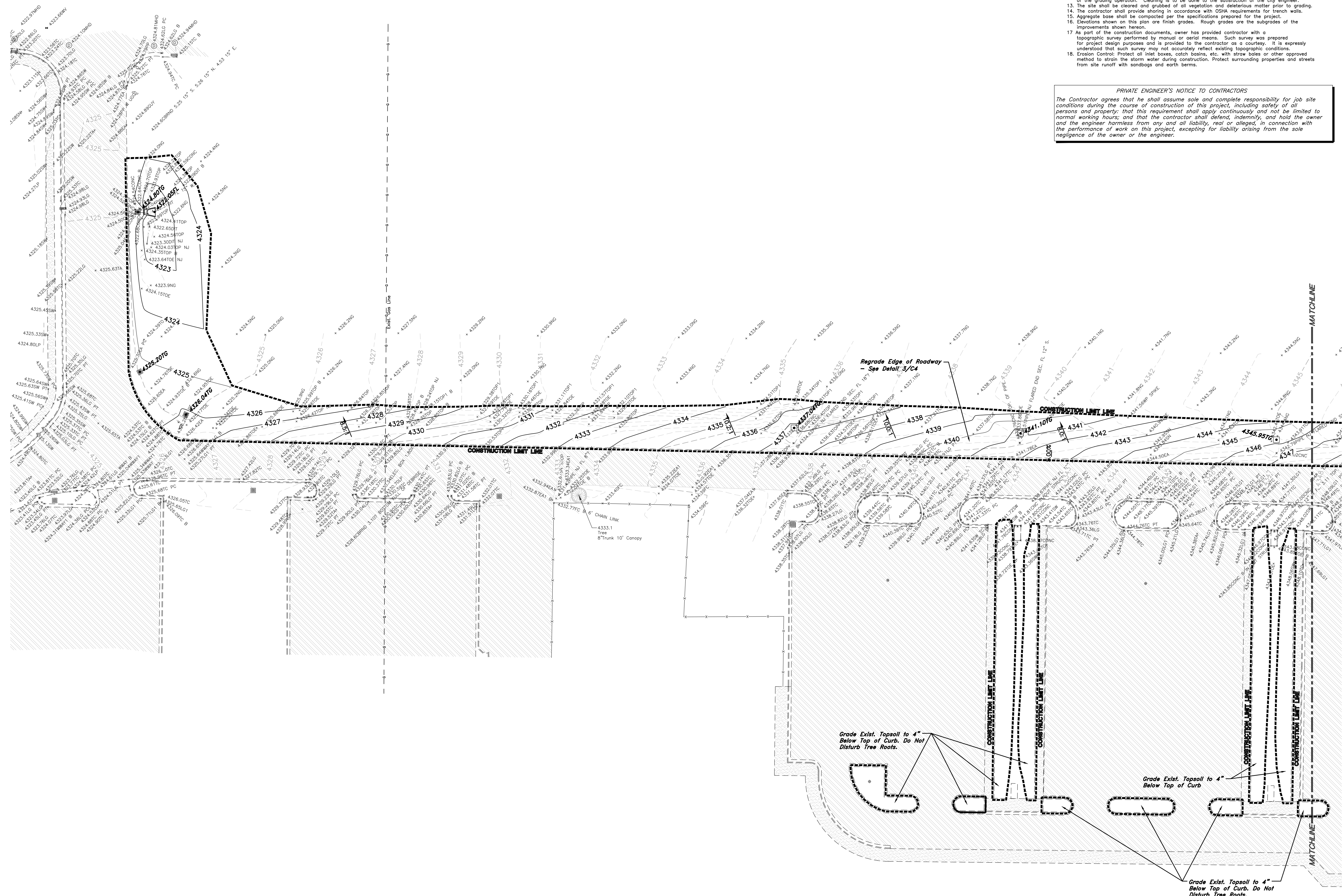
Parking Islands & Storm Drainage

Tech College Circle
 Ogdén City, Weber County, Utah
 A part of Section 9, T8N, R1W, SE&M, U.S. Survey



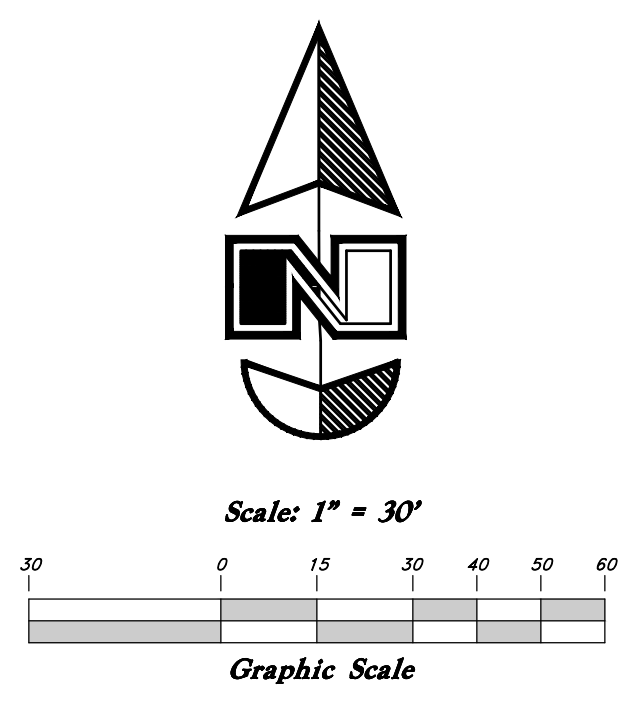
20 Mar, 2024

SHEET NO.
C101



General Grading Notes:

- All work shall be in accordance with the Ogden-Weber Technical College Standard.
- Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
- Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
- Fill shall be compacted per the typical industry standards.
- Areas to receive fill shall be properly prepared and approved by the College Inspector.
- Fills shall be benched into competent material as per specifications.
- All trench backfill shall be tested and certified by the materials tester per the grading code.
- 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.
- Dust shall be controlled by watering.
- The location and protection of all utilities is the responsibility of the permittee.
- Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
- 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.
- The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
- The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
- Aggregate base shall be compacted per the specifications prepared for the project.
- Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
- 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.
- Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to retain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.



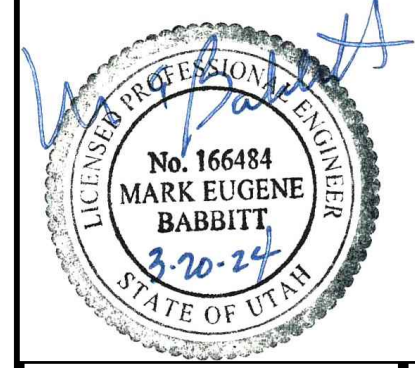
PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

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.

Legend

(Note: All items may not appear on drawing)

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Cleanout
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Fire Hydrant
- Fire Department Connection
- Fast Indicator Valve
- Exist. Water Valve
- Sanitary Sewer
- Culinary Water
- Gas Line
- Irrigation Line
- Storm Drain
- Telephone Line
- Secondary Waterline
- Power Line
- Fire Line
- Land Drain
- Power pole
- Power pole w/guy
- Light Pole
- Fence
- Towline of ditch
- Overhead Power line
- Corrugated Metal Pipe
- Concrete Pipe
- Reinforced Concrete Pipe
- Ductile Iron
- Polyvinyl Chloride
- Edge of Asphalt
- Centerline
- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Grade
- Match Existing
- Fire Department Connection
- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Existing Concrete
- New Concrete
- Demo'd Road Base
- Spill Curb & Gutter
- Demo Tree
- Tree To Remain in Place

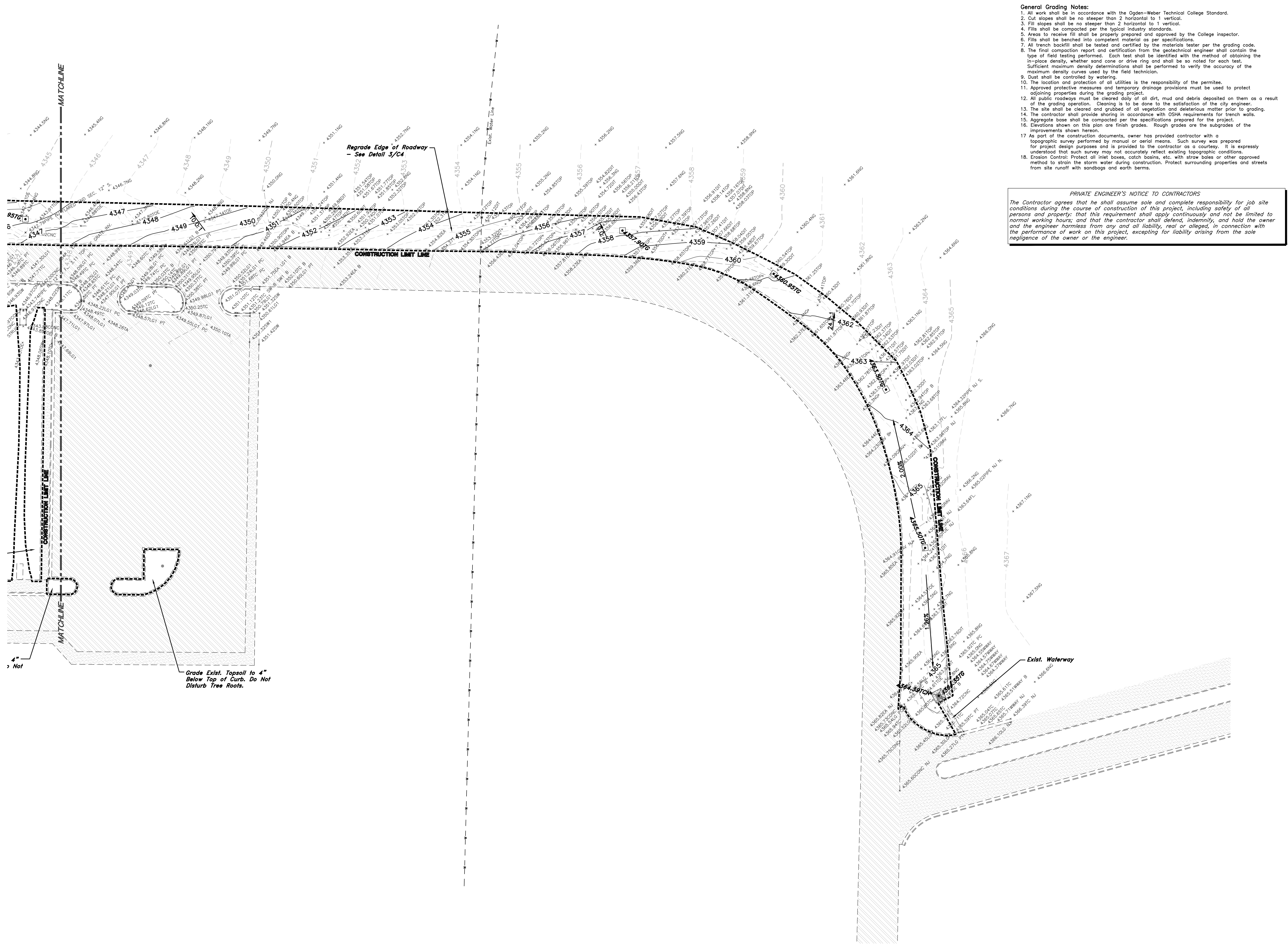


GREAT BASIN ENGINEERING

5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 944-1515 S.L.C. (801) 944-0222 FAX (801) 392-7544
 WWW.GREATBASINENGINEERING.COM

Grading & Drainage Plan
OWTC Health Technology Building
Parking Islands & Storm Drainage
 Tech College Circle
 Ogden City, Weber County, Utah
 A part of Section 9, T8N, R1W, SE&M, U.S. Survey

20 Mar, 2024
 SHEET NO.
C201
 23N504

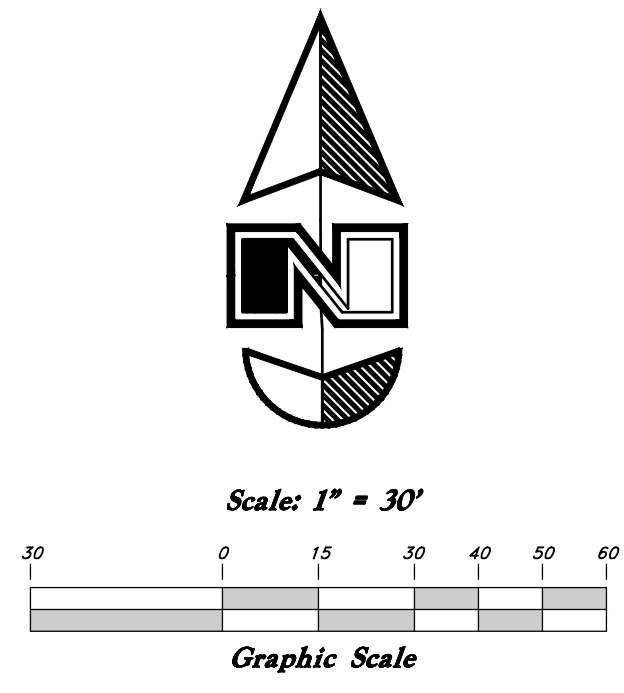


Grade Exist. Topsoil to 4" Below Top of Curb. Do Not Disturb Tree Roots.

- General Grading Notes:**
- All work shall be in accordance with the Ogden-Weber Technical College Standard.
 - Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
 - Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
 - Fill shall be compacted per the typical industry standards.
 - Areas to receive fill shall be properly prepared and approved by the College Inspector.
 - Fill shall be benched into competent material as per specifications.
 - All trench backfill shall be tested and certified by the materials tester per the grading code.
 - 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.
 - Dust shall be controlled by watering.
 - The location and protection of all utilities is the responsibility of the permittee.
 - Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
 - All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Clearing is to be done to the satisfaction of the city engineer.
 - The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
 - The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
 - Aggregate base shall be compacted per the specifications prepared for the project.
 - Elevations shown on this plan are finish grades. Rough grades are the grades of the improvements shown herein.
 - 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.
 - Erosion Control: Protect all inlet basins, 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.

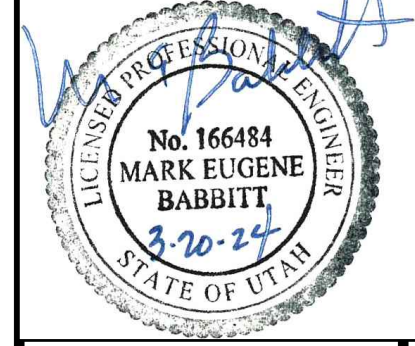
PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

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.



Legend

- (Note: All items may not appear on drawing)
- San. Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Cleanout
 - Electrical Manhole
 - Catch Basins
 - Exist. Fire Hydrant
 - Fire Hydrant
 - Fire Department Connection
 - Post Indicator Valve
 - Exist. Water Valve
 - Water Valve
 - Sanitary Sewer
 - Culinary Water
 - Gas Line
 - Irrigation Line
 - Storm Drain
 - Telephone Line
 - Secondary Waterline
 - Power Line
 - Fire Line
 - Land Drain
 - Power pole
 - Power pole w/guy
 - Light Pole
 - Fence
 - Flowline of ditch
 - Overhead Power line
 - Corrugated Metal Pipe
 - Concrete Pipe
 - Reinforced Concrete Pipe
 - Ductile Iron
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
 - Topline
 - Finish Floor
 - Top of Curb
 - Top of Wall
 - Top of Concrete
 - Top of Walk
 - Natural Ground
 - Finish Grade
 - Match Existing
 - Fire Department Connection
 - Exist. Contour
 - Finish Contour
 - Exist. Grade
 - Ridge Line
 - Direction of Flow
 - Existing Asphalt
 - New Asphalt
 - Heavy Duty Asphalt
 - Existing Concrete
 - New Concrete
 - Demo'd Road Base
 - Spill Curb & Gutter
 - Demo Tree
 - Tree To Remain in Place



GREAT BASIN ENGINEERING

5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 394-4451 FAX (801) 392-7544
 WWW.GREATBASINENGINEERING.COM

Grading & Drainage Plan
OWTC Health Technology Building
Parking Islands & Storm Drainage

Ogden City, Weber County, Utah
 Tech College Circle
 A part of Section 9, T8N, R1W, SE&M, U.S. Survey

20 Mar, 2024

SHEET NO.
C202

23N504



- General Utility Notes:**
- Coordinate all utility connections to building with plumbing plans and building contractor.
 - 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.
 - All catch basin and inlet box grates are to be bicycle proof.
 - 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.
 - Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
 - Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise noted.
 - Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
 - 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.
 - 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.

Utility Piping Materials:
All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

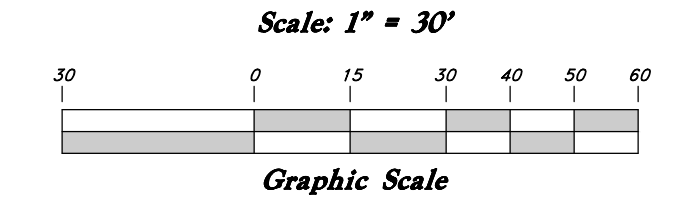
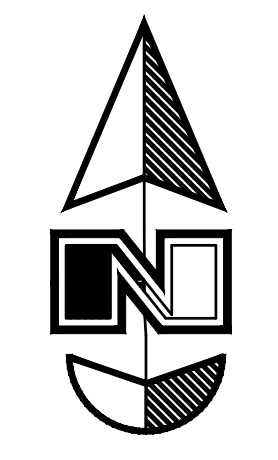
- Storm Drain Lines**
- 10" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
 - 12" to 21" pipes - Concrete Pipe, ASTM C14, Class III up to 13' of cover. For greater than 13' feet of cover, use reinforced concrete pipe and classes listed below.
 - 24" pipes or larger - 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.

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 proposed improvements shown on the plans.

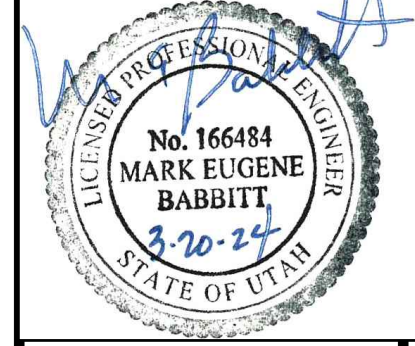
PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

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.



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

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Cleanout
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Fire Department Connection
- Post Indicator Valve
- Exist. Water Valve
- Water Valve
- Sanitary Sewer
- Culinary Water
- Gas Line
- Irrigation Line
- Storm Drain
- Telephone Line
- Secondary Waterline
- Power Line
- Fire Line
- Land Drain
- Power pole
- Power pole w/guy
- Light Pole
- Fence
- Flowline of ditch
- Overhead Power line
- Corrugated Metal Pipe
- Concrete Pipe
- Reinforced Concrete Pipe
- Ductile Iron
- Polyvinyl Chloride
- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Grade
- Match Existing
- Fire Department Connection
- Finish Contour
- Exist. Contour
- Finish Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Heavy Duty Asphalt
- Existing Concrete
- New Concrete
- Demo'd Road Base
- Spill Curb & Gutter
- Demo Tree
- Tree To Remain in Place



GREAT BASIN ENGINEERING

5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 944-4515 S.L.C. (801) 944-0222 FAX (801) 392-7544
 WWW.GREATBASINENGINEERING.COM

Utility Plan

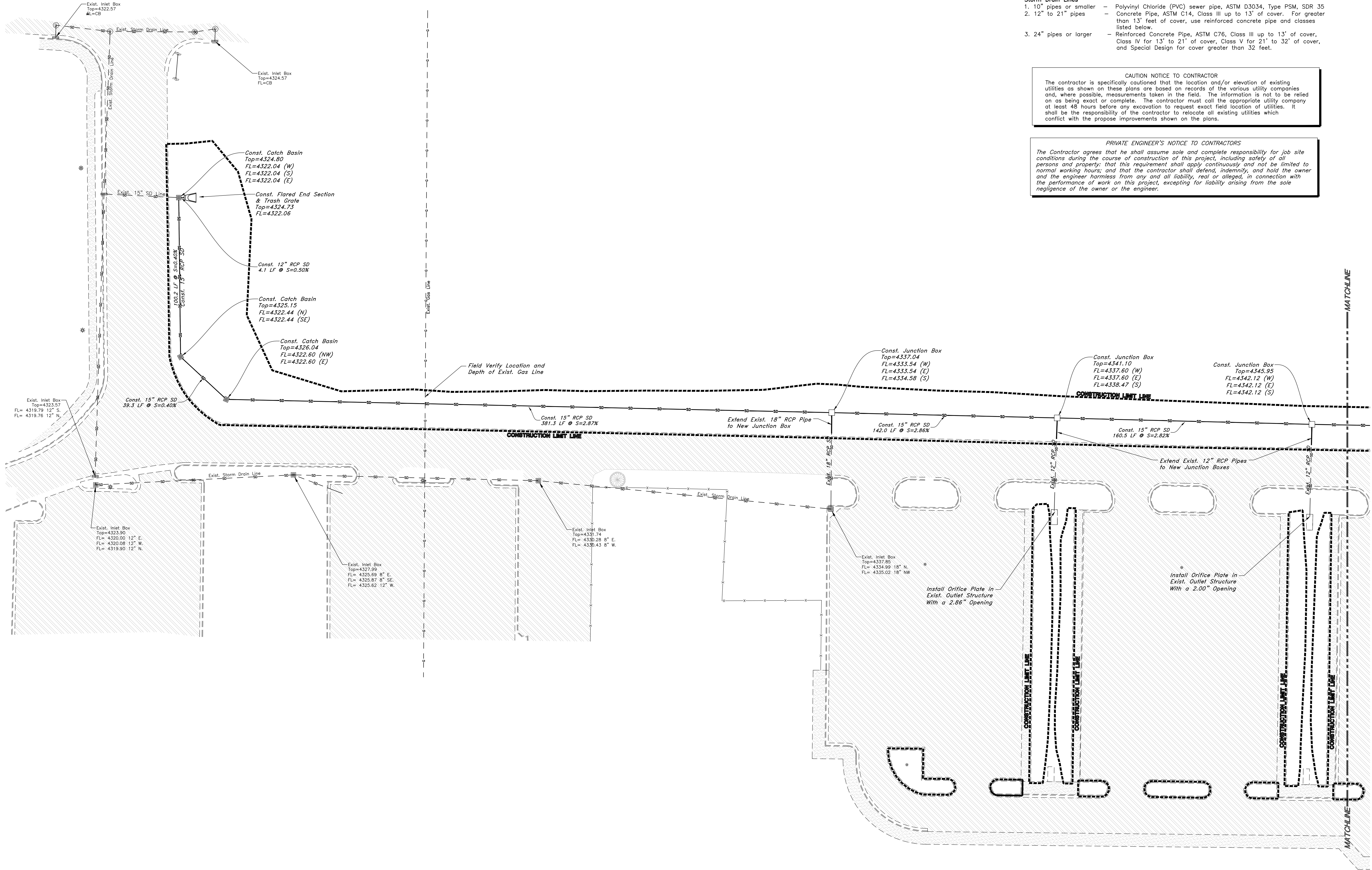
OWTC Health Technology Building
Parking Islands & Storm Drainage

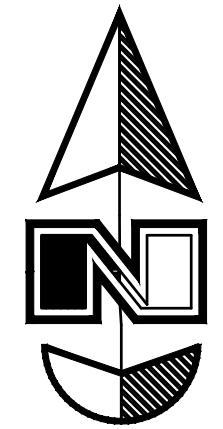
Ogden City, Weber County, Utah
 A part of Section 9, T8N, R1W, SE&M, U.S. Survey

20 Mar, 2024

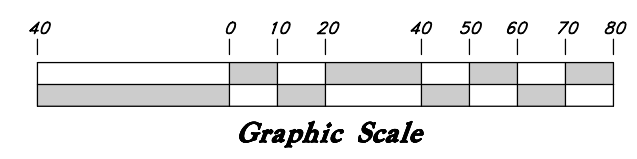
SHEET NO.
C301

23N504





Scale: 1" = 40'



Legend

(Note: All items may not appear on drawing)

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

General Utility Notes:

- Coordinate all utility connections to building with plumbing plans and building contractor.
- 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.
- All catch basin and inlet box grates are to be bicycle proof.
- 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.
- Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
- Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise noted.
- Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
- 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.
- 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.

Utility Piping Materials:

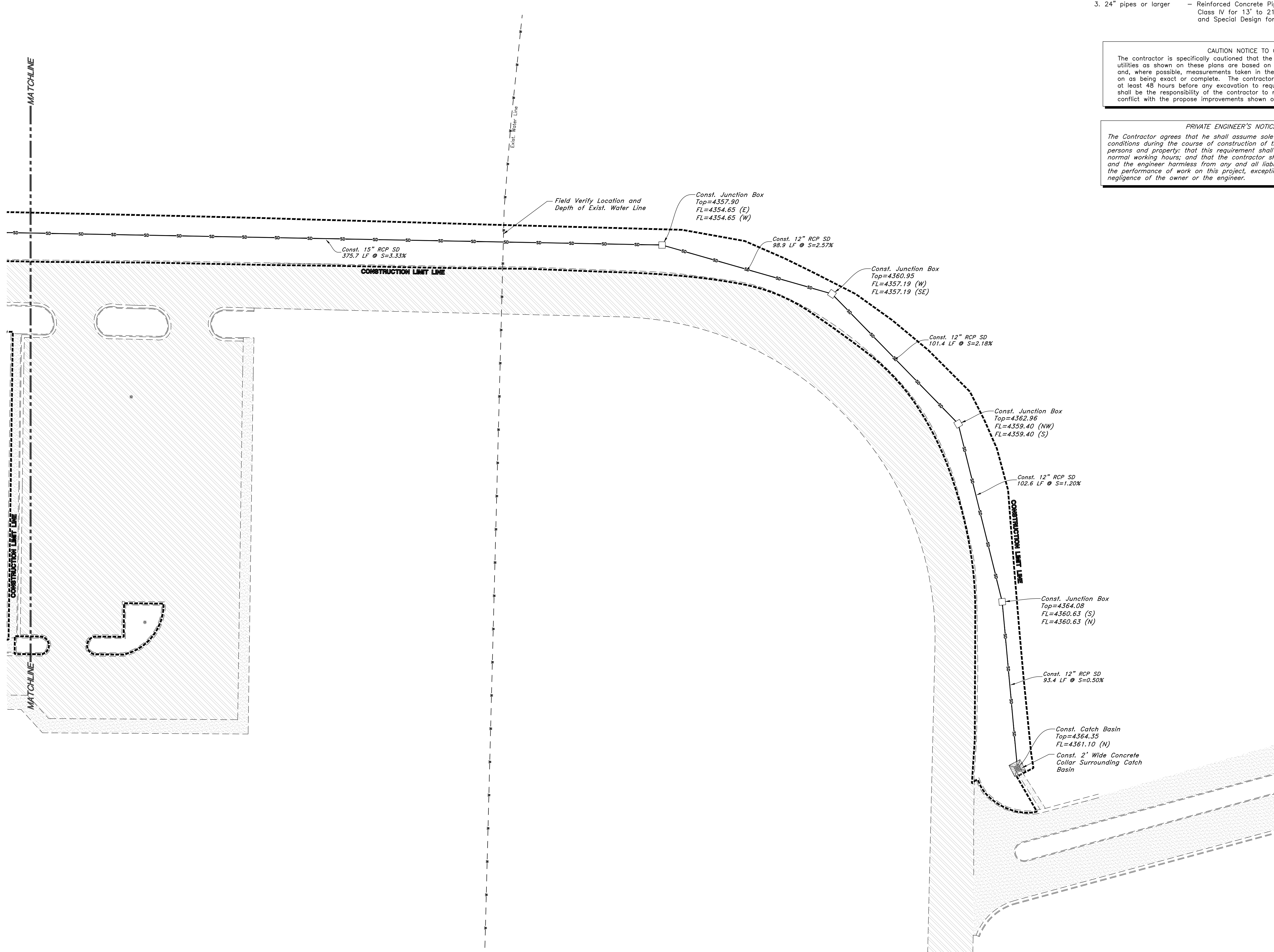
All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

Storm Drain Lines

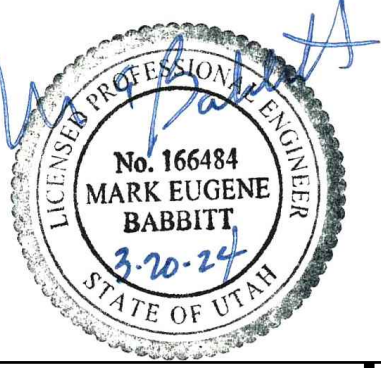
- 10" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
- 12" to 21" pipes - Concrete Pipe, ASTM C14, Class III up to 13' of cover. For greater than 13' feet of cover, use reinforced concrete pipe and classes listed below.
- 24" pipes or larger - Reinforced Concrete 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.

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 proposed 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.



REV	DATE	DESCRIPTION



GREAT BASIN ENGINEERING
 5746 SOUTH 1475 EAST, OGDEN, UTAH 84403
 MAIN (801) 994-4515 S.L.C. (801) 927-0222 FAX (801) 992-7544
 WWW.GREATBASINENGINEERING.COM

Utility Plan
OWTC Health Technology Building
Parking Islands & Storm Drainage
 Tech College Circle
 Ogden City, Weber County, Utah
 A part of Section 9, T8N, R1W, SE&M, U.S. Survey

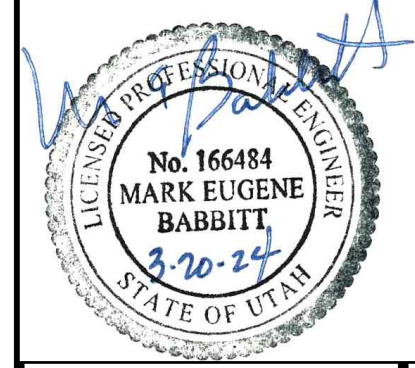


20 Mar, 2024

SHEET NO. **C302**

23N504

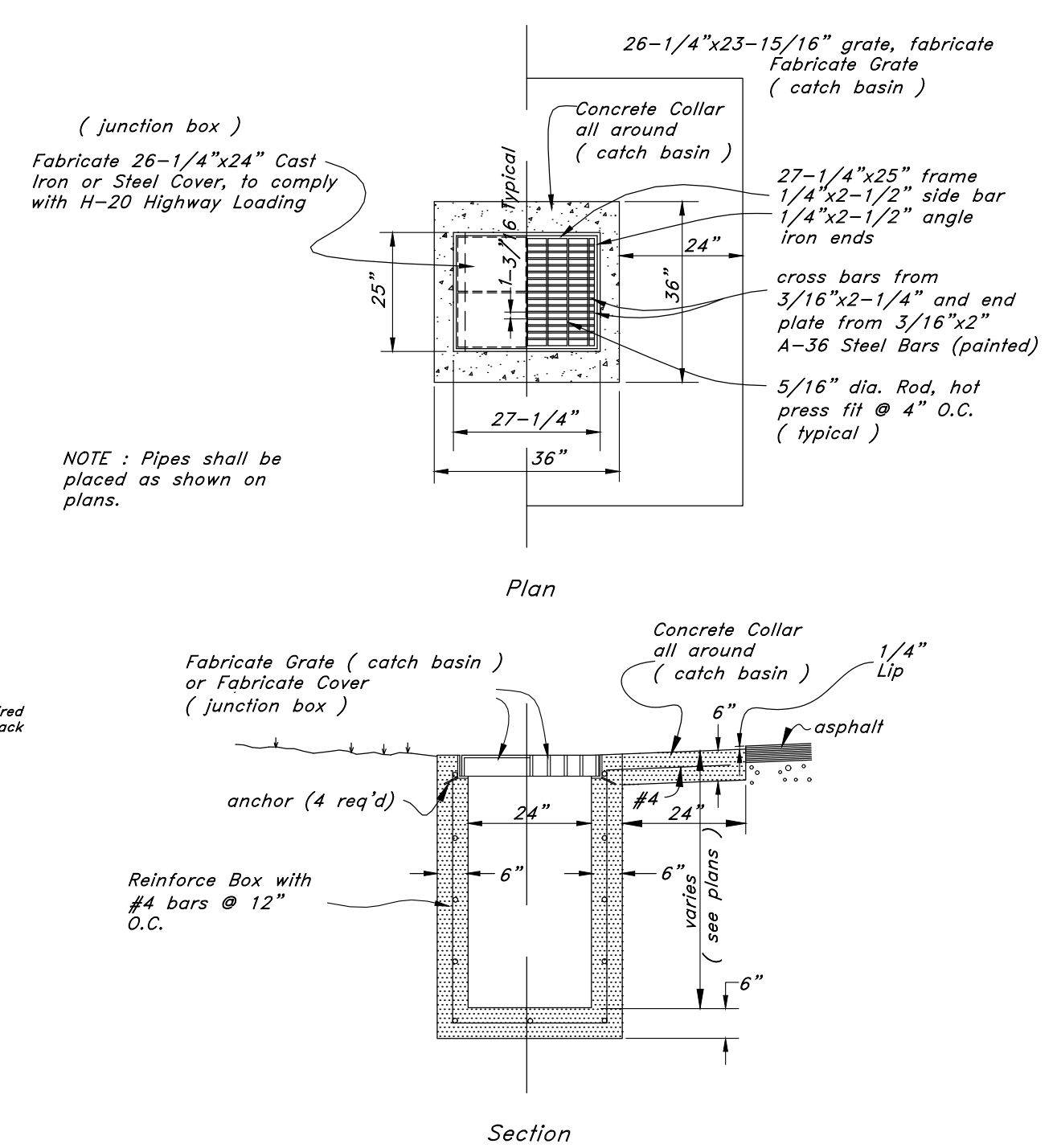
REV	DATE	DESCRIPTION



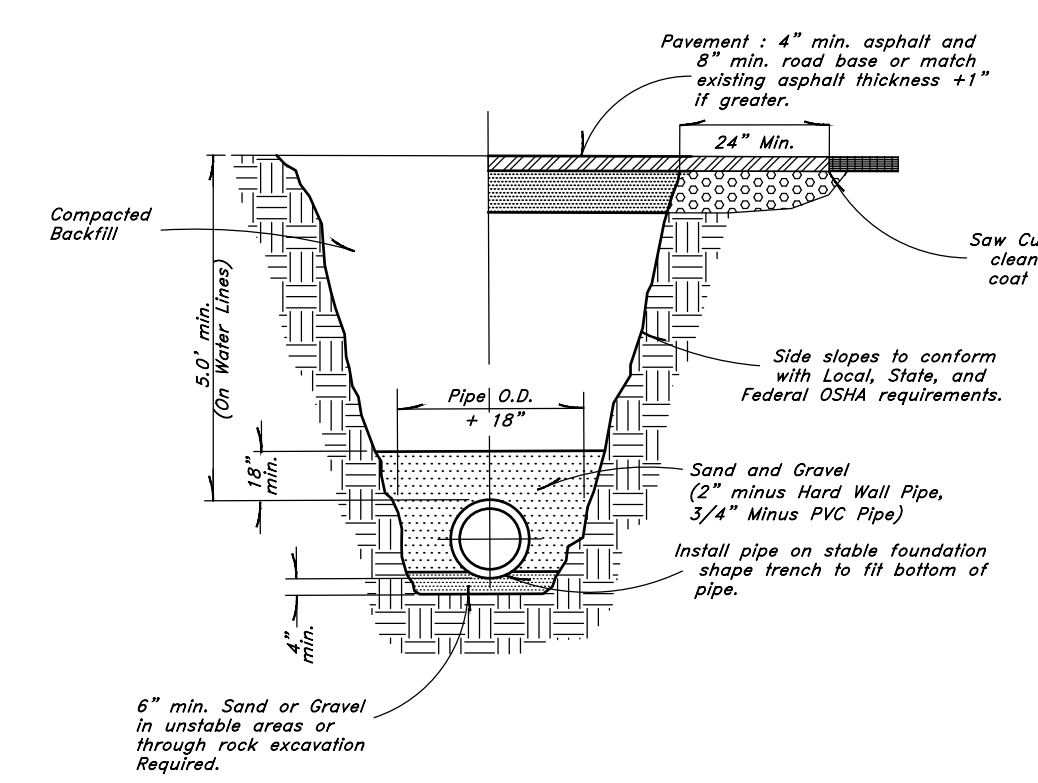
GREAT BASIN ENGINEERING
 5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 394-4515 S.L.C. (801) 392-7544
 WWW.GREATBASINENGINEERING.COM

Detail Sheet
OWTC Health Technology Building
Parking Islands & Storm Drainage
 Tech College Circle
 Ogden City, Weber County, Utah
 A part of Section 5, T&N, R1W, SB&M, U.S. Survey

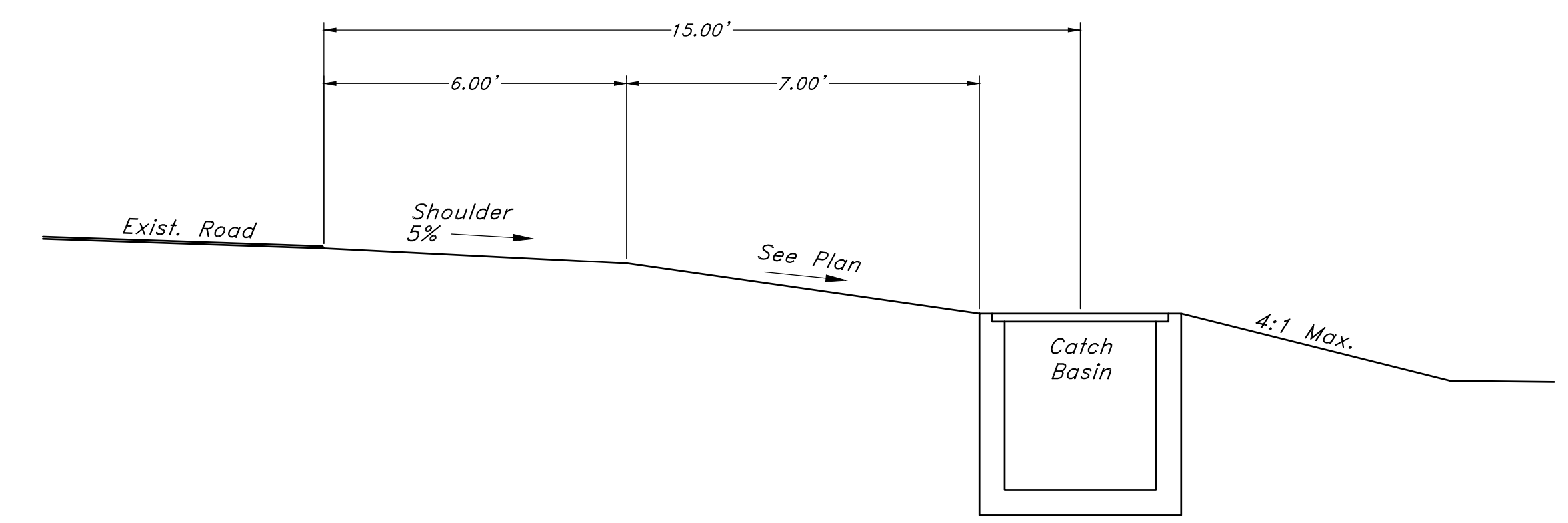
20 Mar, 2024
 SHEET NO.
C501
 23N504



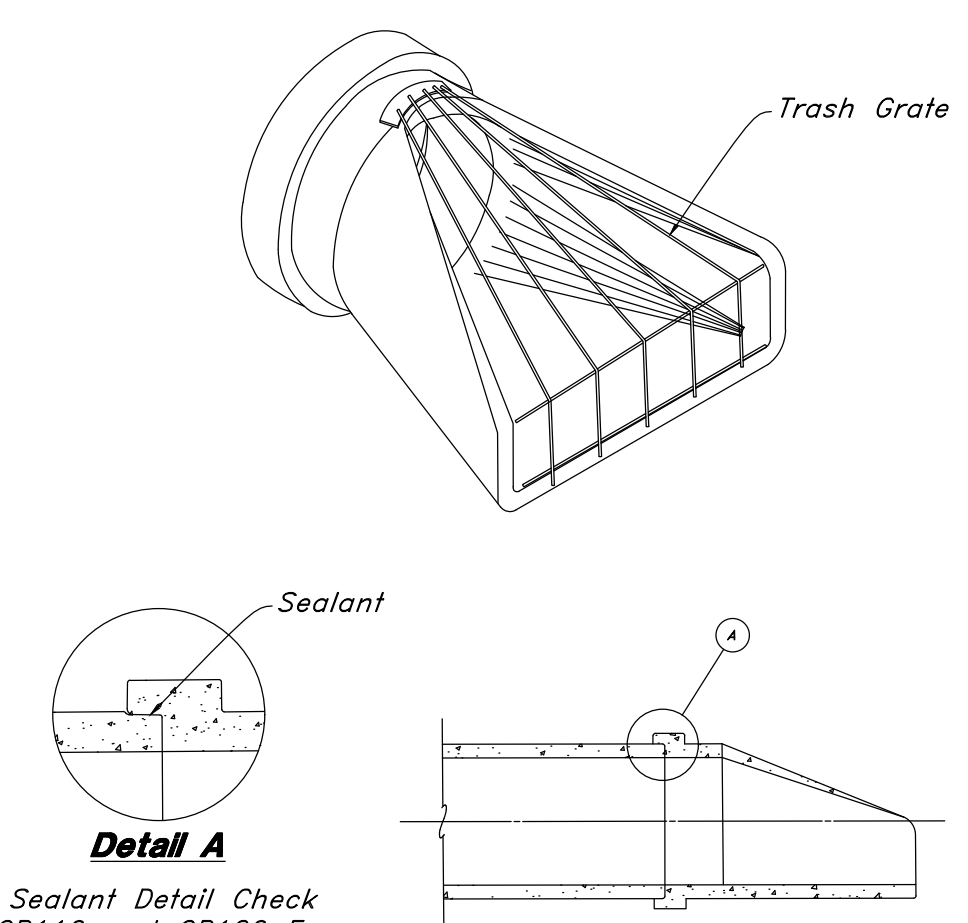
1 Catch Basin/Junction Box
 Not to Scale



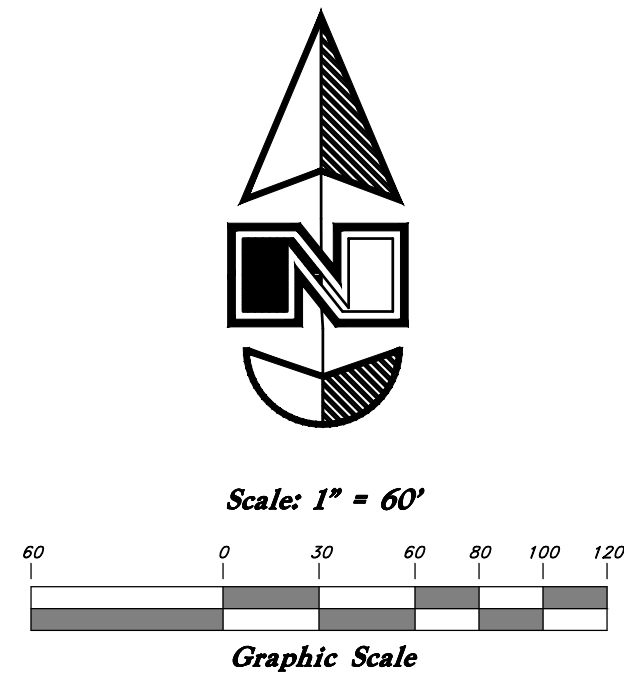
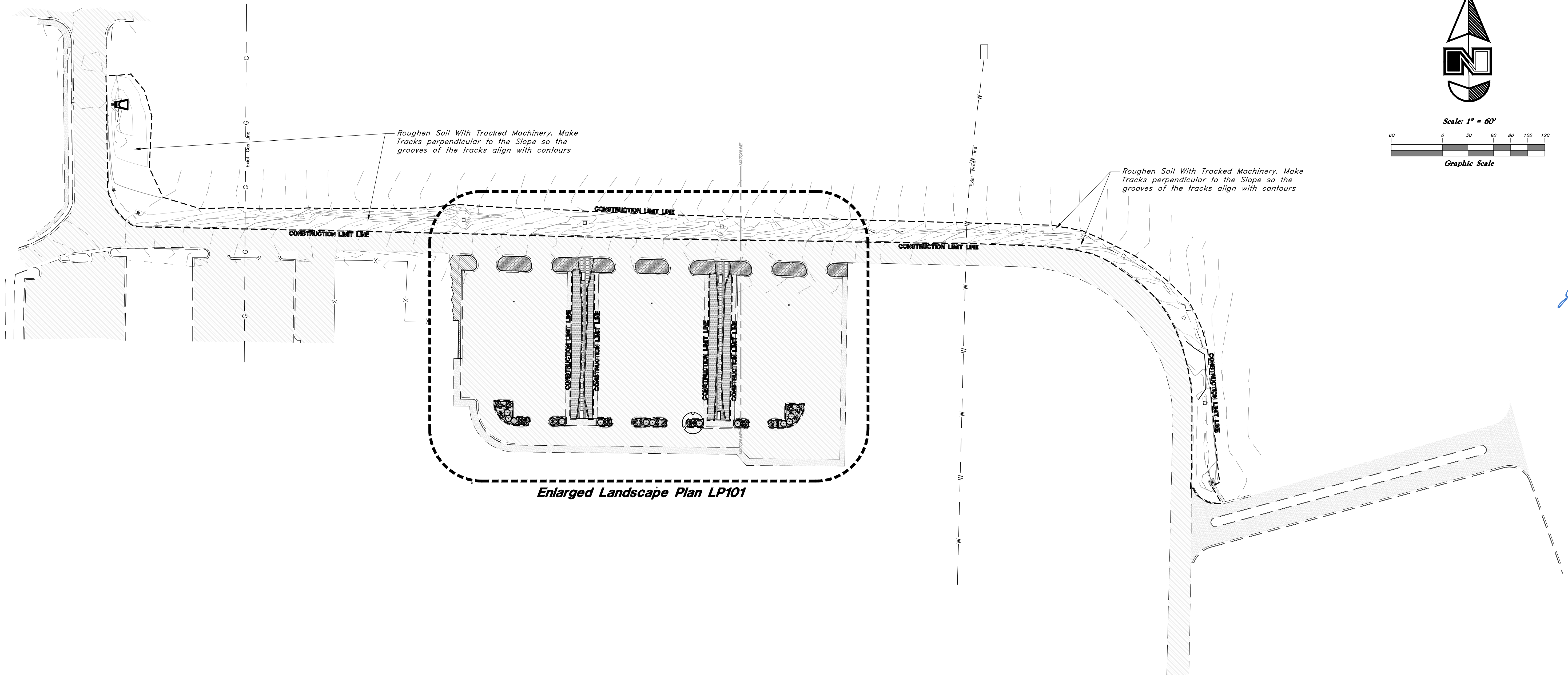
2 Typical Trench Detail
 Not to Scale



3 ROADSIDE DETAIL
 NTS



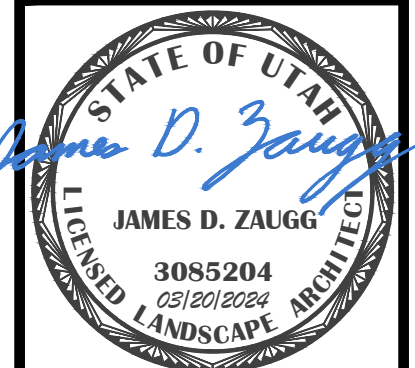
4 Flared End Section With Trash Grate
 NTS



Enlarged Landscape Plan LP101

SYMBOL	QTY	BOTANICAL / COMMON NAME
GROUND COVERS		
[Symbol: Dotted pattern]	7,818 sf	Const. Gravel Mulch to Match Existing
[Symbol: Diagonal lines]	3,728 sf	1" Washed Decorative Crushed Gravel Mulch. Place 4" deep over Dewitt Pro 5 weed barrier fabric.
[Symbol: Horizontal lines]	1,203 sf	Existing Gravel Mulch / Repair any Damage
[Symbol: Vertical lines]	1,203 sf	Existing Lawn / Maintain and Protect
[Symbol: Stippled pattern]	3,144 sf	Existing Rip Rap / Clean Stone and Repair any Damage.

REV	DATE	DESCRIPTION



GREAT BASIN ENGINEERING

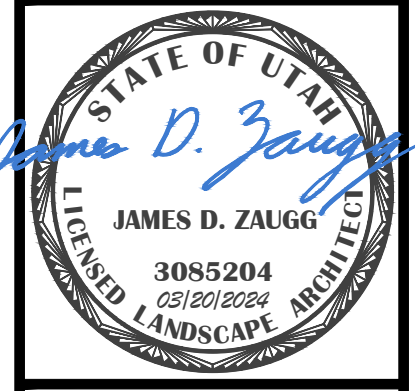
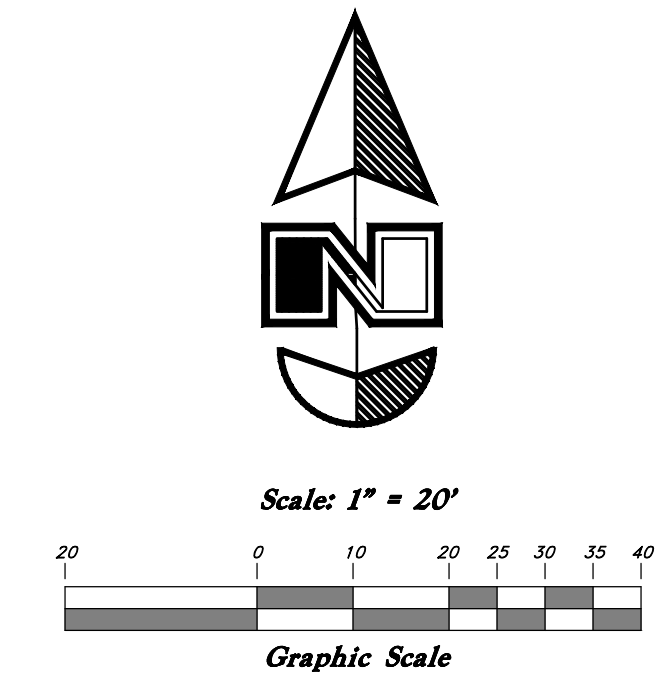
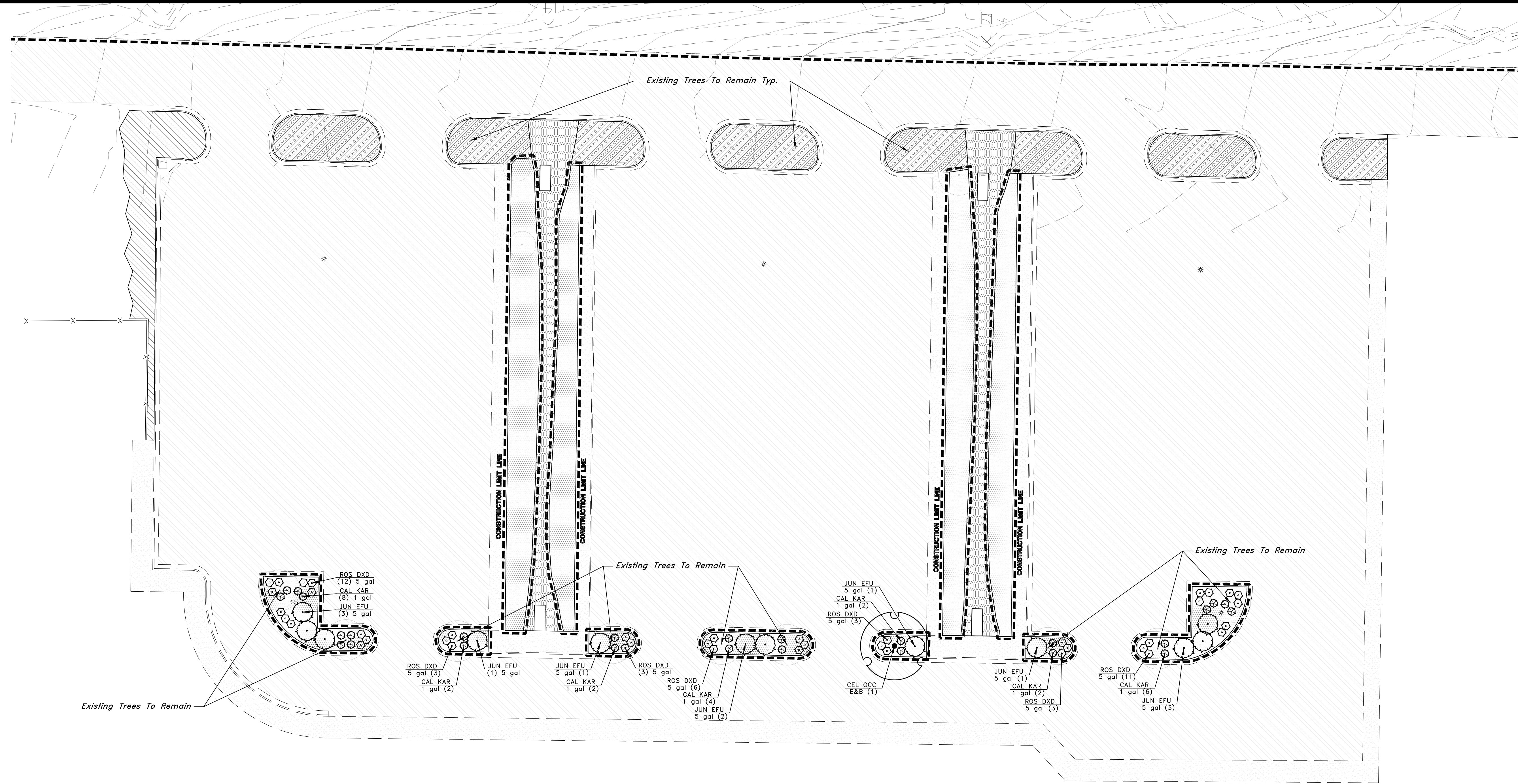
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 394-4515 S.L.C (801) 521-0222 FAX (801) 392-7544
 WWW.GREATBASINENGINEERING.COM

Overall Landscape Plan
OWTC Health Technology Building
Parking Islands & Storm Drainage
 Tech College Circle
 Ogden City, Weber County, Utah
 A part of Section 9, T8N, R1W, SE&W, U.S. Survey



20 Mar, 2024

SHEET NO.
LP100



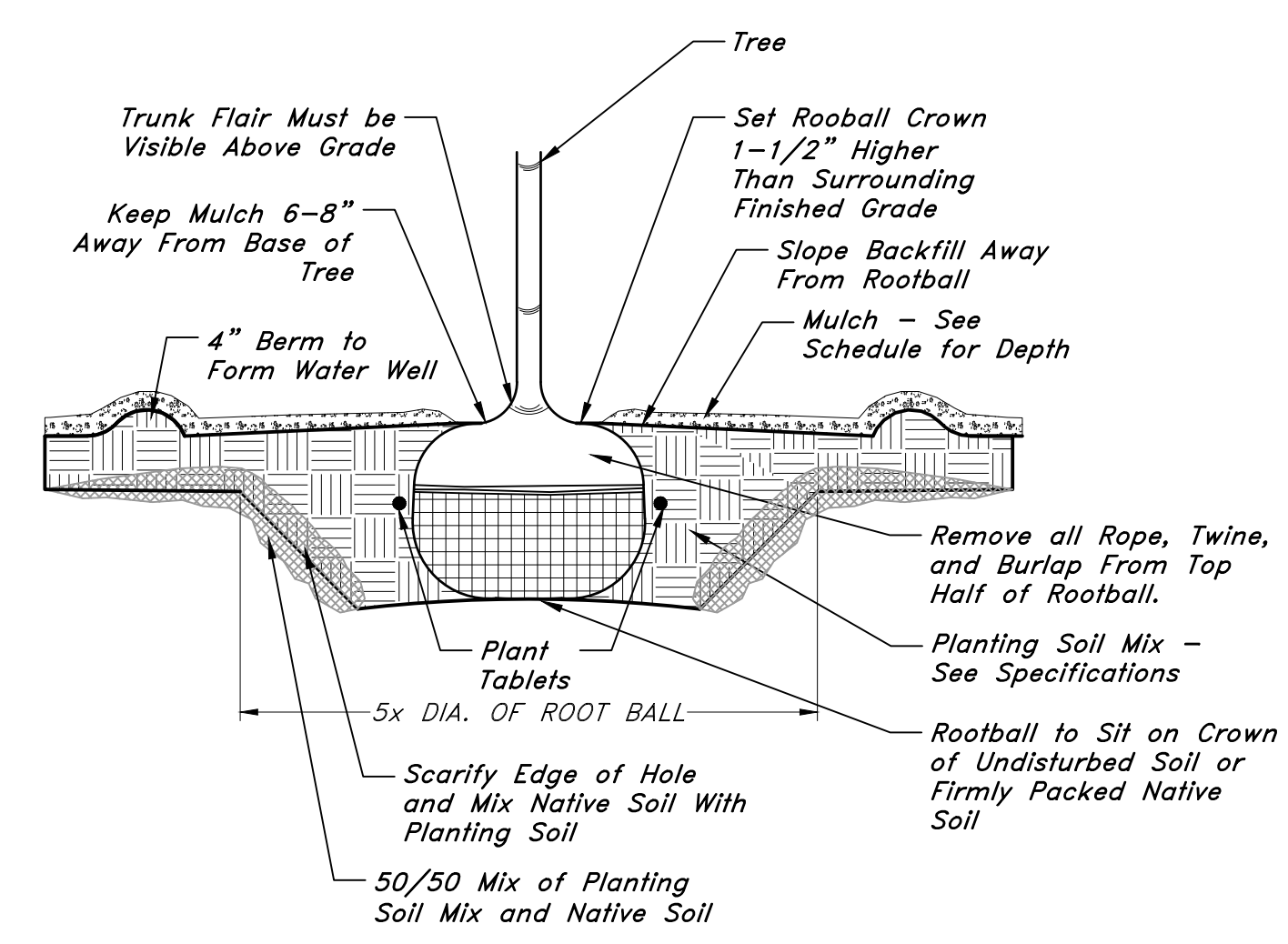
GREAT BASIN ENGINEERING
 5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 944-4515 S.L.C (801) 392-7544
 WWW.GREATBASINENGINEERING.COM

PLANT SCHEDULE

CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL
TREES				
CEL OCC	1	<i>Celtis occidentalis</i> / Common Hackberry	B&B	2" Cal
SHRUBS				
JUN EFU	12	<i>Juniperus communis</i> 'Effusa' / Creeping Juniper	5 gal	
ROS DXD	41	<i>Rosa x</i> 'Groundcover Pink' / Pink Groundcover Rose	5 gal	
GRASSES				
CAL KAR	26	<i>Calamagrostis x acutiflora</i> 'Karl Foerster' / Feather Reed Grass	1 gal	
GROUND COVERS				
	7,818 sf	Const. Gravel Mulch to Match Existing		
	3,728 sf	1" Washed Decorative Crushed Gravel Mulch. Place 4" deep over no Dewilt Pro 5 weed barrier fabric.		
	1,203 sf	Existing Gravel Mulch / Repair any Damage	na	
	3,144 sf	Existing Lawn / Maintain and Protect	na	
		Existing Rip Rap / Clean Stone and Repair any Damage.	na	

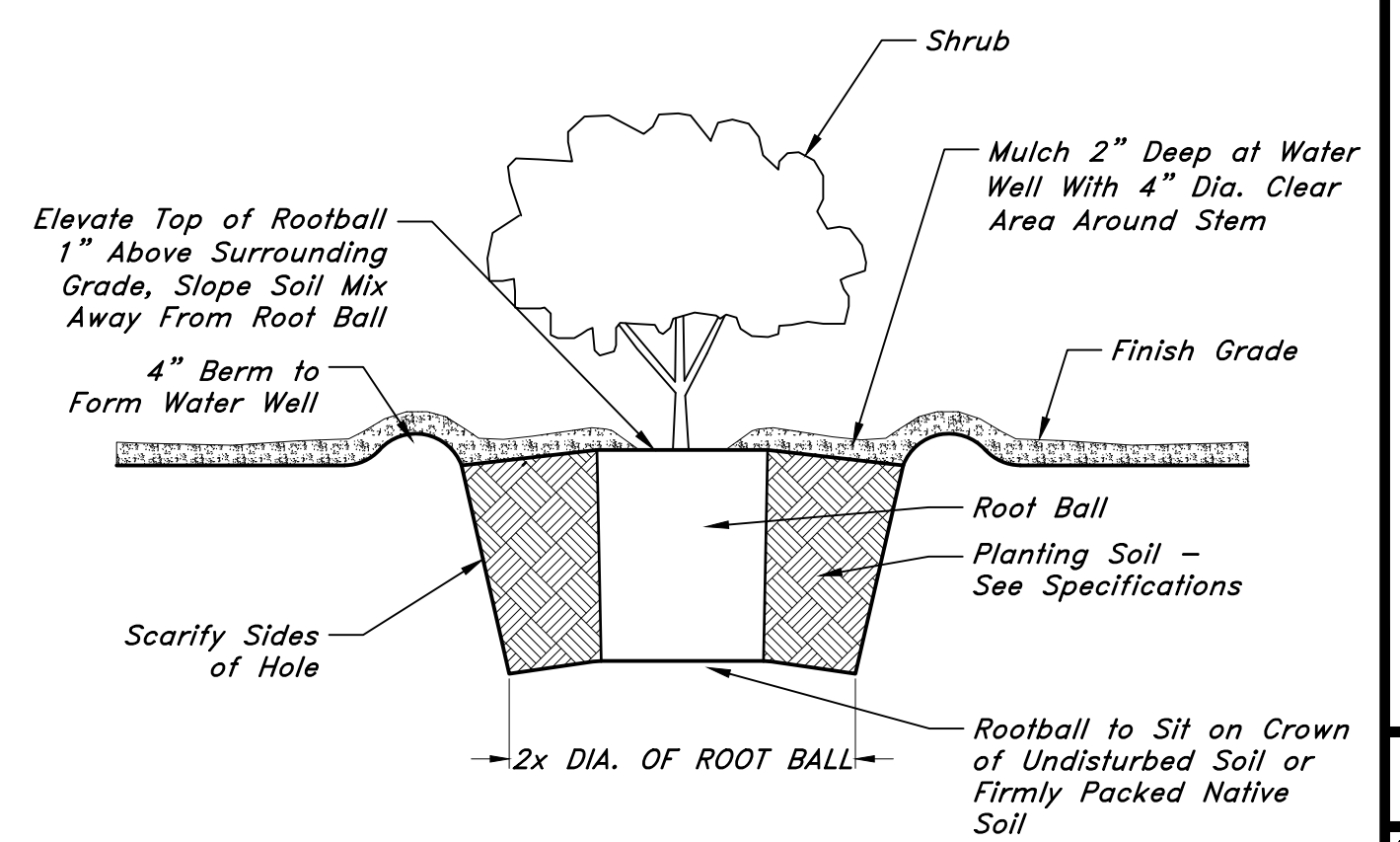
PLANTING NOTES

- EXAMINE THE SITE CONDITIONS, THE SUBGRADE AND VERIFY THE DEPTHS OF TOPSOIL AND MULCH. NOTIFY THE ARCHITECT IN WRITING OF ANY UNSATISFACTORY CONDITIONS. DO NOT BEGIN LANDSCAPE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN RESOLVED.
- ALL PLANTS SHOWN GRAPHICALLY ARE REQUIRED. ANY PLANT QUANTITIES ARE FOR CONVENIENCE ONLY. CONTRACTOR TO VERIFY PLAN QUANTITIES PRIOR TO BIDDING.
- SPACING BETWEEN PLANTS AND BETWEEN PLANTS AND PAVING ARE BASED ON THE MATURE SPREAD OF THE PLANTS. PRIOR TO PLANTING, VERIFY ROOM TO ACCOMMODATE MATURE PLANT WITHOUT OVERCROWDING AND ENCRoACHING ON PAVING.
- VERIFY LOCATIONS OF ALL UTILITIES PRIOR TO ANY DIGGING. ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THIS CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
- TOPSOIL IS TO BE HARVESTED AND STOCKPILED ON SITE.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING 2" OF TOPSOIL FOR SEED AREAS AND MAINTAIN EXISTING TOPSOIL AT SHRUBS AND TREES.
- THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR FINISH GRADE ELEVATIONS. ALLOW FOR SPECIFIED TOPSOIL AND MULCH LAYER THICKNESS. COORDINATE ROUGH GRADING WITH THE GENERAL CONTRACTOR.
- ALL PLANT MATERIAL MUST MEET THE SIZES AS INDICATED ON THE PLANT SCHEDULE. PLANT MATERIAL THAT DOES NOT MEET THE QUALITY STANDARDS OF THE PROJECT WILL BE REFUSED BY THE LANDSCAPE ARCHITECT.



Notes:
 1. If Wire Basket is Present, Cut and Fold Down Top Half of Wire Basket.

2 TREE PLANTING

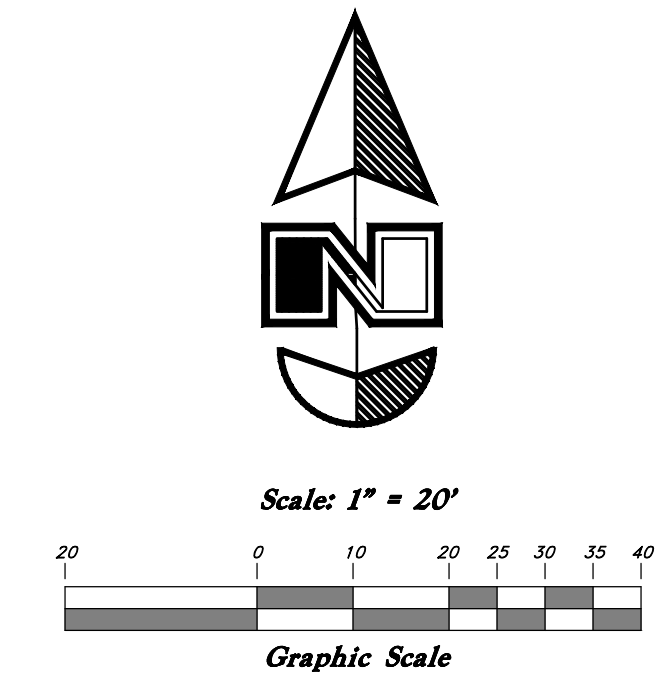
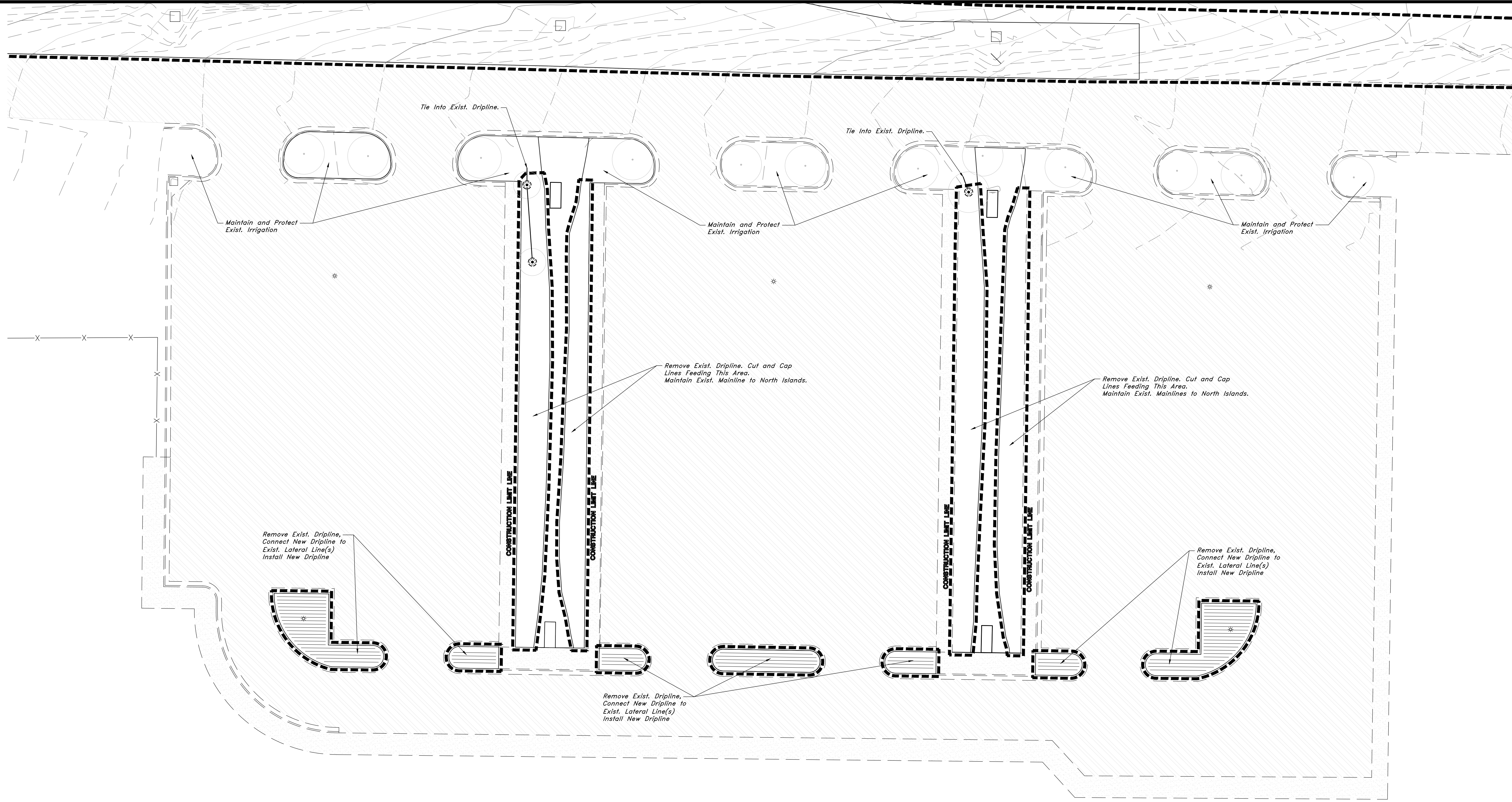


1 SHRUB PLANTING

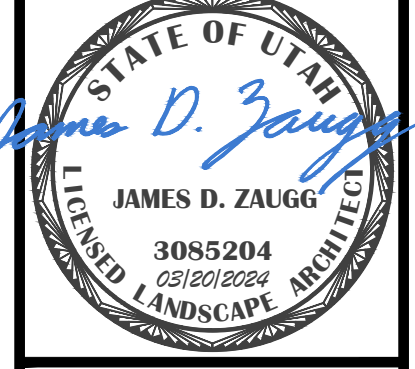
Landscape Plan
OWTC Health Technology Building
Parking Islands & Storm Drainage
 Tech College Circle
 Ogden City, Weber County, Utah
 A part of Section 9, TAN, R/W, S&B&M, U.S. Survey

20 Mar, 2024

SHEET NO.
LP101



REV	DATE	DESCRIPTION



GREAT BASIN ENGINEERING
 5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 994-4515 S.L.C (801) 521-0222 FAX (801) 392-7544
 WWW.GREATBASINENGINEERING.COM

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim TLCV-04-12 Tree Ring See Detail 3/LI-502
	Area to Receive Dripline Netafim TLCV-04-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.4 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Irrigation Lateral Line: PVC Schedule 40
	Valve Callout Valve Number Valve Flow Valve Size

IRRIGATION REMODEL NOTES

1. THIS PROJECT REQUIRES THE REMODEL OF AN EXISTING IRRIGATION SYSTEM. PROTECT AND MAINTAIN PORTIONS OF THE EXISTING SYSTEM TO REMAIN.
2. COORDINATE WITH OWNER FOR ANY DISRUPTIONS OF SERVICE. CONTRACTOR IS RESPONSIBLE FOR HAND WATERING VEGETATION THAT LACKS WATER DUE TO DISRUPTION OF SERVICE. ANY PLANTS LOST DUE TO LACK OF WATER DUE TO CONTRACTOR NEGLIGENCE WILL BE REPLACED AT NOT COST TO THE OWNER.
3. FIELD VERIFY THE LOCATIONS AND SIZES OF THE EXPECTED TIE-INS FOR MAIN LINES AND LATERAL LINES.
4. MAINTAIN AND PROTECT THE EXISTING CONTROLLER AND EXISTING CONTROL WIRES THAT ARE TO REMAIN. CONTRACTOR TO SUPPLY EQUIPMENT AND WIRING NECESSARY TO MAKE NEW EQUIPMENT WORK WITH EXISTING EQUIPMENT.

IRRIGATION NOTES

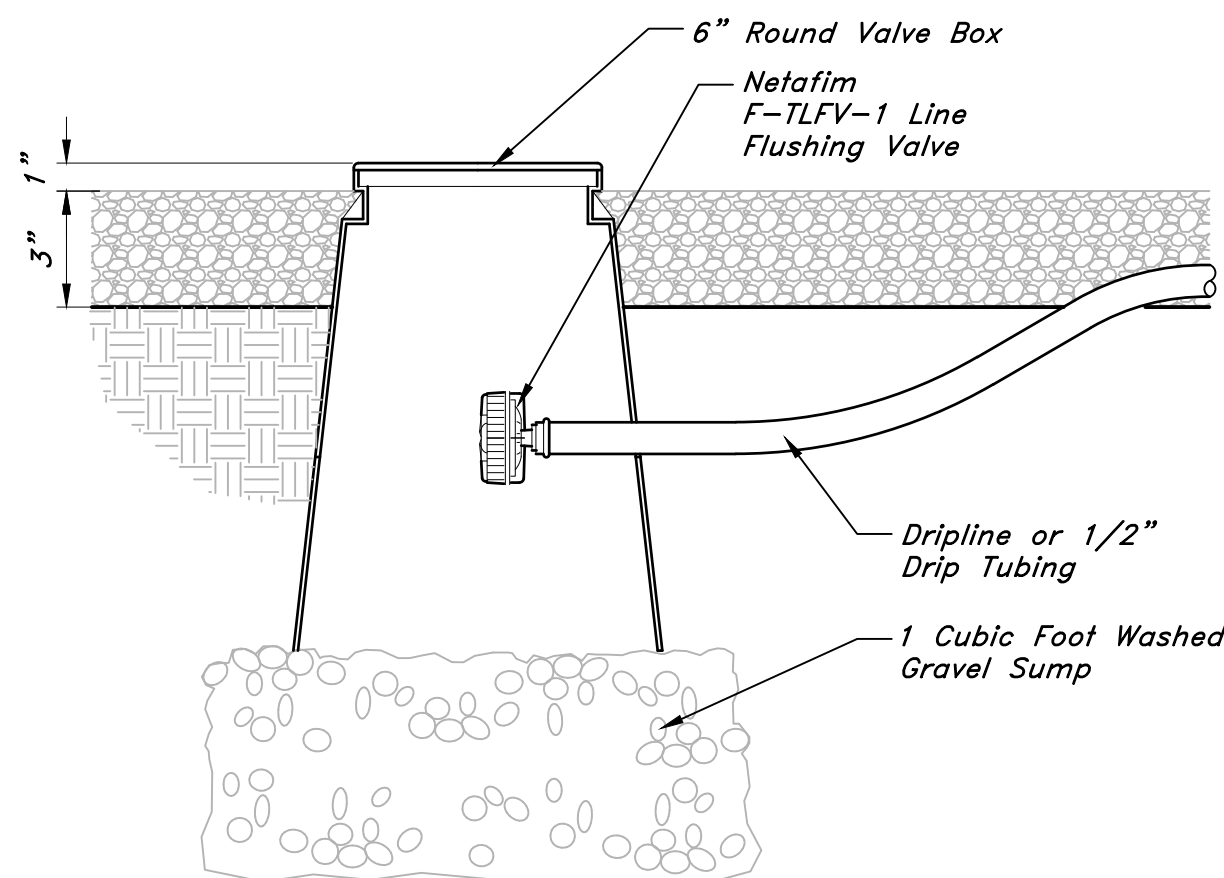
1. EXAMINE THE SITE CONDITIONS, THE SUBGRADE AND VERIFY ELEVATIONS. NOTIFY THE ARCHITECT IN WRITING OF ANY UNSATISFACTORY CONDITIONS. DO NOT BEGIN LANDSCAPE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN RESOLVED.
2. BEFORE ANY TRENCHING, EXCAVATION, OR DIGGING, THE CONTRACTOR SHALL HAVE THE AREA 'BLUE STAKED' AND CONTACT THE APPROPRIATE UTILITY COMPANIES. CONTRACTOR SHALL PROTECT ALL UTILITIES FROM DAMAGE.
3. VERIFY LOCATIONS OF ALL UTILITIES AND SITE FEATURES PRIOR TO ANY DIGGING. ANY DAMAGE TO EXISTING UTILITIES AND SITE FEATURES CAUSED BY THIS CONTRACTOR SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
4. THIS DRAWING IS DIAGRAMMATIC AND IS INTENDED TO CONVEY THE GENERAL LAYOUT OF IRRIGATION SYSTEM COMPONENTS. FIELD ADJUSTMENTS MAY BE NECESSARY TO MAINTAIN FULL COVERAGE IN ACTUAL SITE CONDITIONS. CONTACT THE LANDSCAPE ARCHITECT IF SIGNIFICANT CHANGES ARE NECESSARY. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR REVISIONS TO THE IRRIGATION SYSTEM IF THE IRRIGATION SYSTEM IS INSTALLED WHEN SITE CONDITIONS DIFFER FROM PLAN LAYOUT AND THE LANDSCAPE ARCHITECT WAS NOT INFORMED.
5. ALL IRRIGATION EQUIPMENT NOT DETAILED SHALL BE INSTALLED AS PER MANUFACTURER RECOMMENDATIONS, SPECIFICATIONS, AND DETAILS.
6. THIS SYSTEM IS DESIGNED TO OPERATE AT 40 PSI FOR ALL DRIPLINES.
7. SUPPLY PRODUCTS AS SPECIFIED. NO SUBSTITUTIONS WILL BE ALLOWED UNLESS PRE-APPROVED IN WRITING BY THE OWNER OR LANDSCAPE ARCHITECT.

Irrigation Plan
OWTC Health Technology Building
Parking Islands & Storm Drainage
 Tech College Circle
 Ogden City, Weber County, Utah
 A part of Section 9, T8N, R1W, SE&M, U.S. Survey

1 Mar, 2024

SHEET NO.
LI101

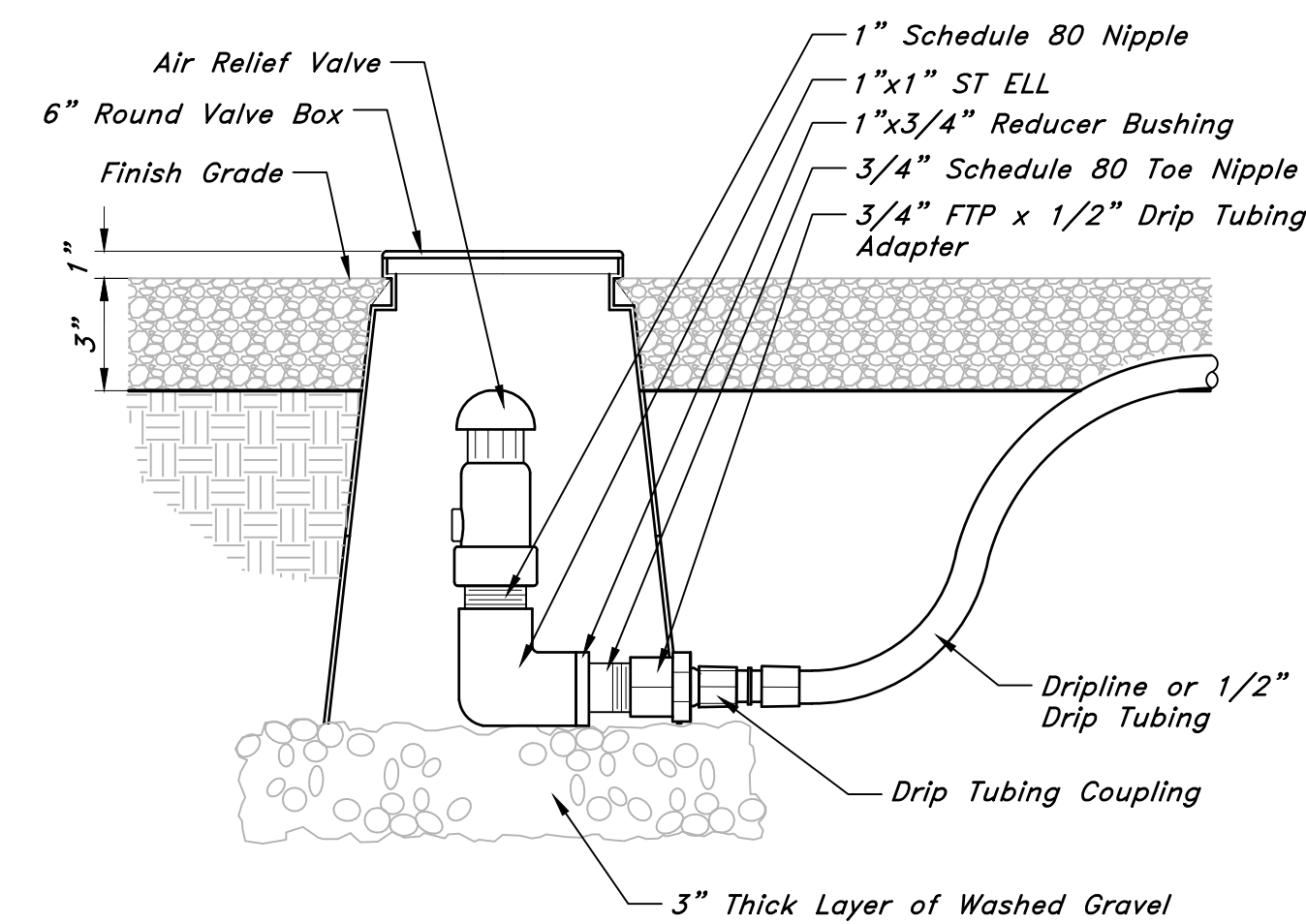
NOTE:
Install One Automatic Flush Valve
Per Zone At The Point Most
Distant From The Valve



3 FLUSH VALVE IN BOX
3" = 1'-0"

328413.49-02

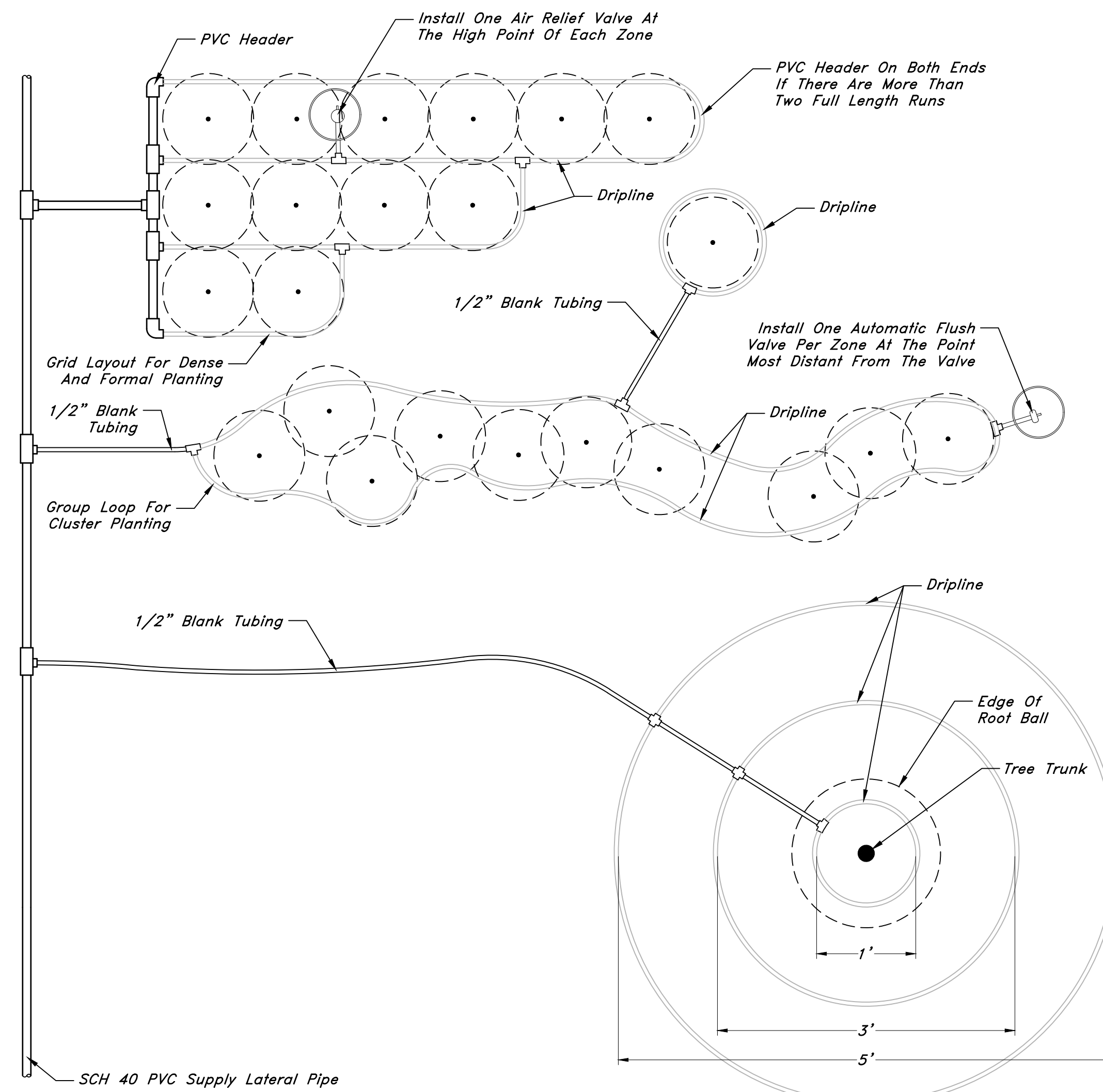
NOTE:
Install One Air Relief Valve At
The High Point Of Each Zone



2 AIR RELIEF VALVE IN BOX
3" = 1'-0"

328413.53-09

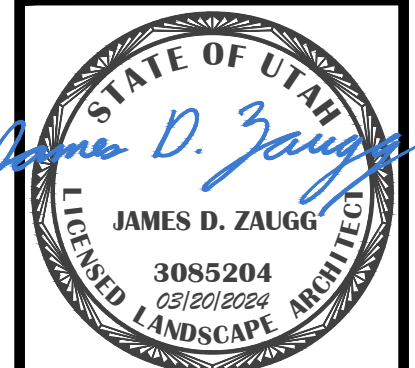
NOTE:
No Single Length Of
Dripline Shall Exceed 300'
In Length



1 DRIPLINE LAYOUT AT TREES AND SHRUBS
1" = 1'-0"

328413.43-02

REV	DATE	DESCRIPTION



GREAT BASIN ENGINEERING
 5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 994-4515 S.L.C. (801) 521-0222 FAX (801) 392-7544
 WWW.GREATBASINENGINEERING.COM

Irrigation Details
OWTC Health Technology Building
Parking Islands & Storm Drainage
 Ogdén City, Weber County, Utah
 A part of Section 9, TAN, R/W, SE&M, U.S. Survey

1 Mar, 2024

SHEET NO.
LI501

23/504