

JORDAN SCHOOL DISTRICT MOUNTAIN RIDGE HIGH SCHOOL ACCESS DRIVES CONSTRUCTION DOCUMENTS

14202 S. Sentinel Ridge Boulevard
Herriman City, Utah

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.
- All curbs, walks, slabs, flatwork, light fixtures, flag poles, benches, and buried cables, to be cleared from site unless otherwise shown.
- All utilities, sewer, water, gas, telephone and electrical services to remain unless otherwise shown.
- Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off-site. Except where noted otherwise.
- DO NOT interrupt any services or disrupt the operation of any businesses shown outside the demolition limits.
- 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.

GENERAL SITE NOTES:

- Stalls designated as handicap will require a painted handicap symbol and sign. (See Details)
- See Horizontal Control plan for coordinates, radiuses and detailed dimensions of site improvements.
- All dimensions are to back of curb and edge of pavement unless otherwise noted.

General Grading Notes:

- All work shall be in accordance with the City Public Works 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.
- Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
- Areas to receive fill shall be properly prepared and approved by the City inspector and geotechnical Engineer prior to placing fill.
- Fills shall be benched into competent material as per specifications and geotechnical report.
- All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
- A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
- 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 geotechnical report prepared for the project.
- Elevations shown on this plan are finish grades. Rough grades are the subgrades 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 boxes, catch basins, etc. with straw boles or other approved method to strain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

ADA NOTES:

Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routes 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.

CAUTION NOTICE TO CONTRACTOR

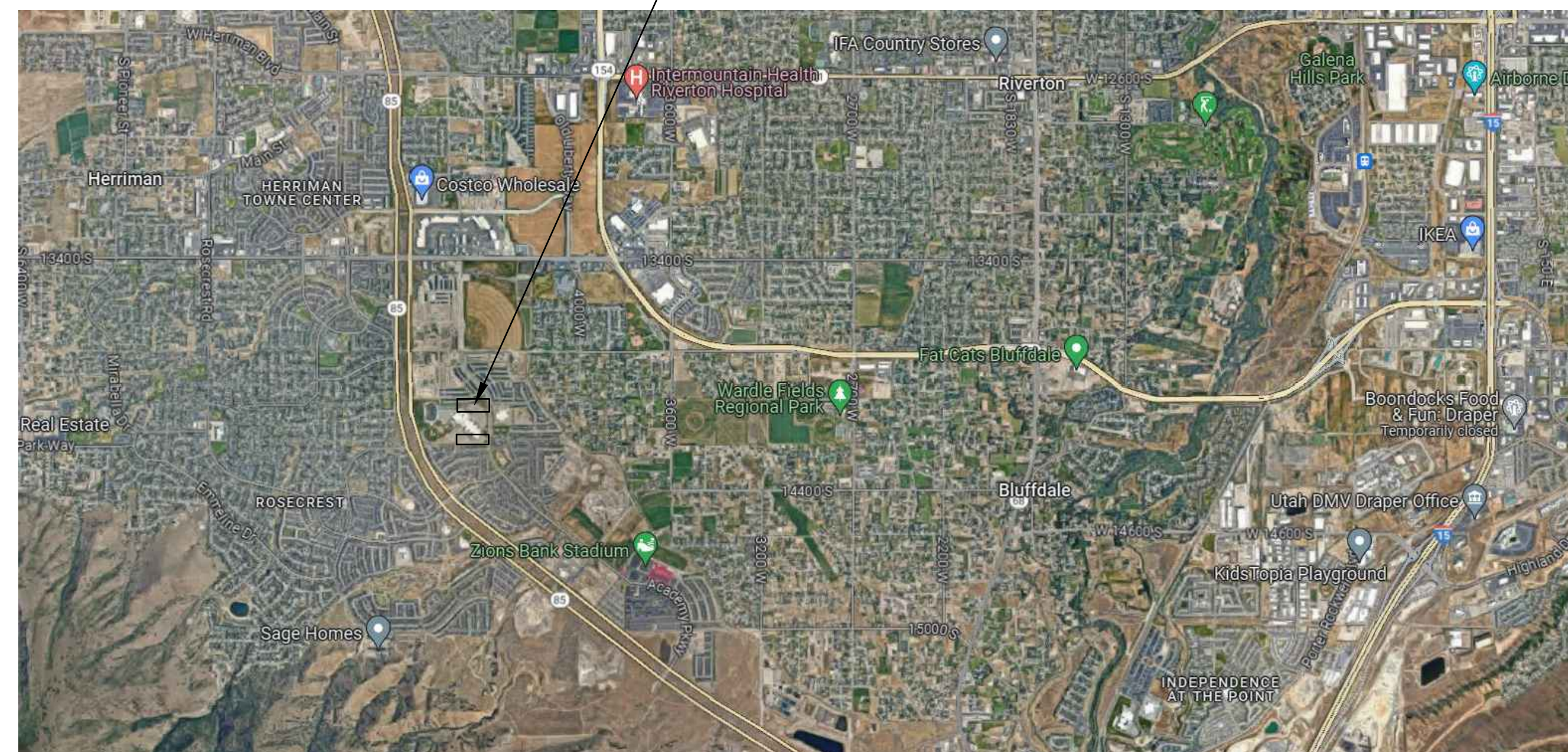
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PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

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 TOOELE COUNTY STANDARDS AND SPECIFICATIONS

Project Location



Vicinity Map
Not to Scale



Call before you Dig
Avoid cutting underground utility lines. It's costly.



1-800-662-4111

SHEET INDEX

CIVIL

- CV.0 COVER SHEET
- C0.1 DEMOLITION PLAN - NORTH (ALTERNATE #1)
- C0.2 DEMOLITION PLAN - SOUTH
- C1.1 SITE PLAN - NORTH (ALTERNATE #1)
- C1.2 SITE PLAN - SOUTH
- C2.1 GRADING PLAN - NORTH (ALTERNATE #1)
- C2.2 GRADING PLAN - SOUTH
- C3.1 UTILITY PLAN - NORTH (ALTERNATE #1)
- C3.2 UTILITY PLAN - SOUTH
- C5.1 CONSTRUCTION DETAILS

LANDSCAPE

- LP.1 LANDSCAPE PLAN - NORTH (ALTERNATE #1)
- LP.2 LANDSCAPE PLAN - SOUTH
- ID.1 IRRIGATION DEMOLITION PLAN - NORTH (ALTERNATE #1)
- ID.2 IRRIGATION DEMOLITION PLAN - SOUTH
- IP.1 IRRIGATION PLAN - NORTH (ALTERNATE #1)
- IP.2 IRRIGATION PLAN - SOUTH
- IP5.1 IRRIGATION DETAILS

ELECTRICAL

- EO.1 ELECTRICAL SYMBOLS AND NOTES
- EO.2 ELECTRICAL SCHEDULE
- EO.3 ELECTRICAL SPECIFICATIONS
- ED1.1 ELECTRICAL SITE DEMOLITION PLAN - NORTH (ALTERNATE #1)
- ED1.2 ELECTRICAL SITE DEMOLITION PLAN - SOUTH
- E1.1 ELECTRICAL SITE PLAN - NORTH (ALTERNATE #1)

ENGINEER/SURVEYOR:

GREAT BASIN ENGINEERING INC.
CONTACT: MARK BABBITT PE/PLS- PRINCIPAL
OFFICE: 801-394-4515
ADDRESS: 5746 SOUTH 1475 EAST SUITE 200
OGDEN, 84403
EMAIL: MARKB@GREATBASINENG.COM

LANDSCAPE ARCHITECT:

GREAT BASIN ENGINEERING INC.
CONTACT: JIM ZAUGG - PROJECT MANAGER/LANDSCAPE ARCHITECT
OFFICE: 801-394-4515
ADDRESS: 5746 SOUTH 1475 EAST SUITE 200
OGDEN, 84403
EMAIL: JZAUGG@GREATBASINENG.COM

ELECTRICAL ENGINEER:

BNA CONSULTING
CONTACT: DRAYTON BAILEY - PRINCIPAL
OFFICE: 801-532-2196
ADDRESS: 4225 LAKE PARK BOULEVARD
SUITE 275
WEST VALLEY CITY, UTAH 84120
EMAIL: RICHARD@BNACONSULTING.COM

REV	DATE	DESCRIPTION



GREAT BASIN ENGINEERING
 5746 SOUTH 1475 EAST SUITE 200
 OGDEN, UTAH 84403
 MAIN (801)394-4515 FAX (801)392-7544
 WWW.GREATBASINENGINEERING.COM

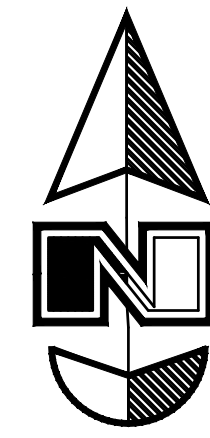
Cover Sheet
Mountain Ridge High School Access Roads
 14202 S. Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
 A part of Section 6, T4S, R1W, S1B&M, U.S. Survey

12 Jan, 2024

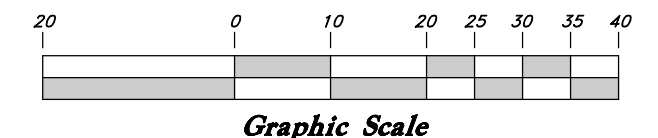
SHEET NO.

CV.0

23/216



Scale: 1" = 20'



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
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- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- Top of Walk
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- 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

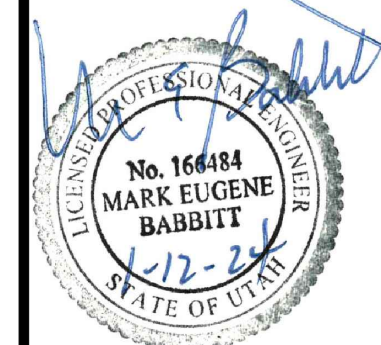
New Concrete

Demo'd Road Base

Spill Curb & Gutter

Demo Tree

Tree To Remain in Place



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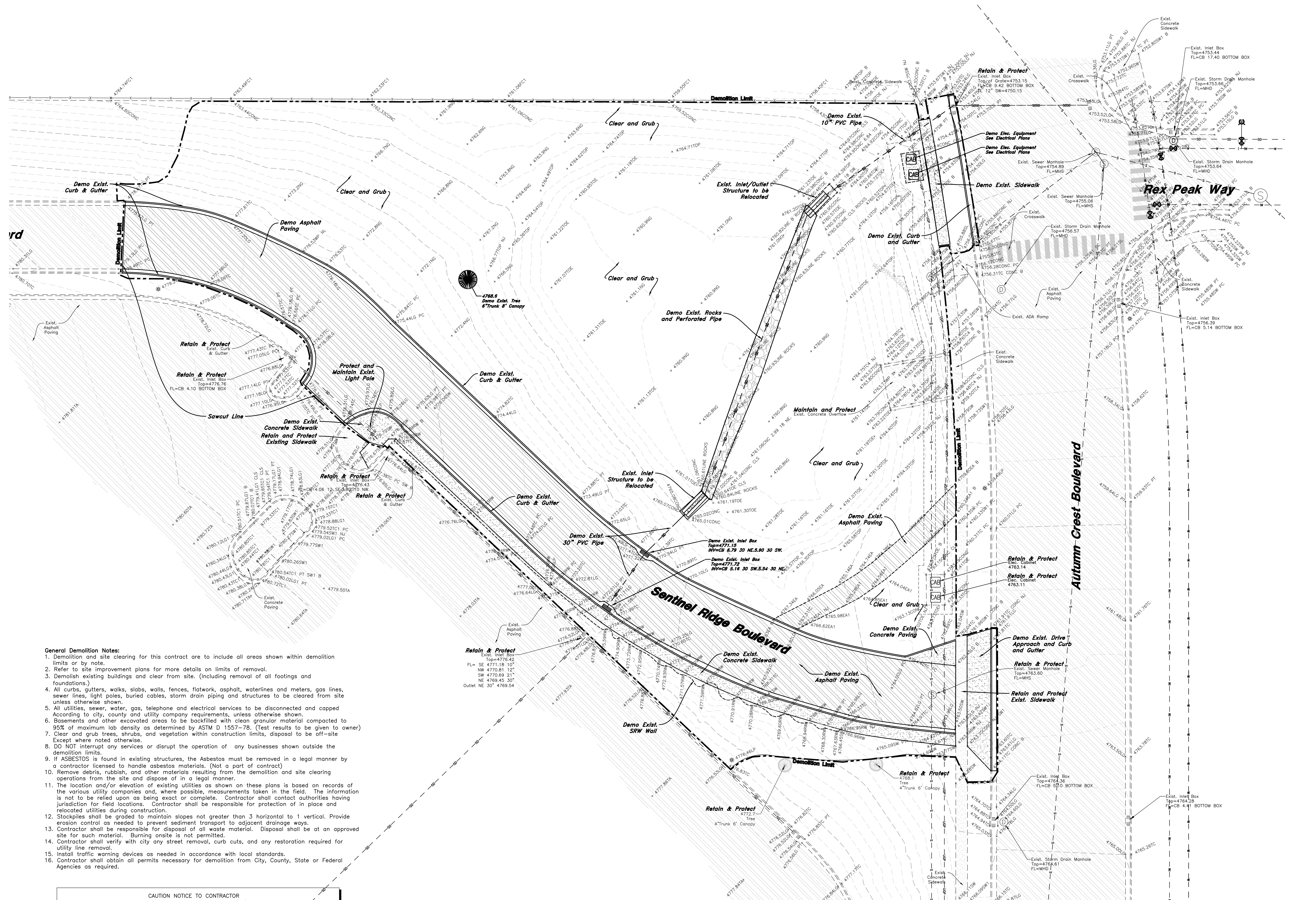
Demolition Plan - North (Alternate #1)
Mountain Ridge High School Access Roads
 14202 S Sentinel Ridge Boulevard
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SHEET NO.

CO.1

23N216

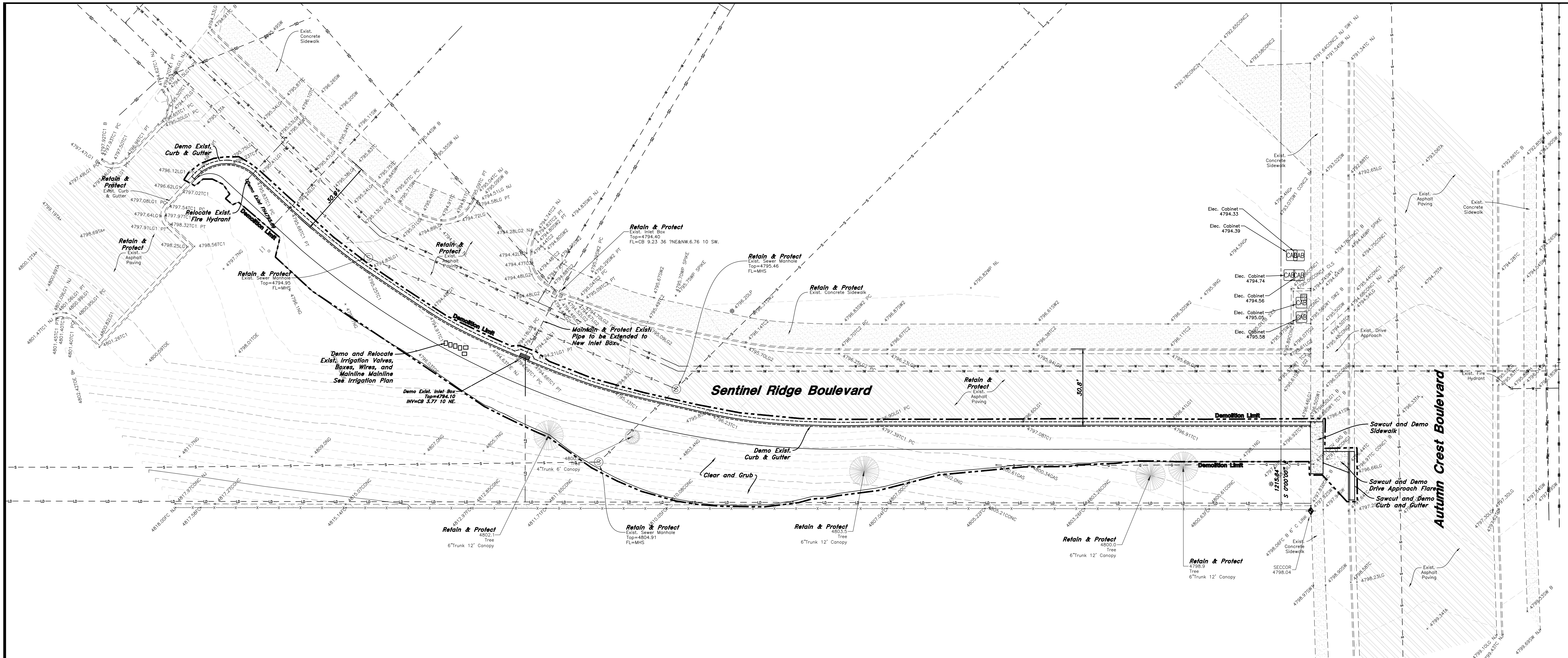


- General Demolition Notes:**
- Demolition and site clearing for this contract are to include all areas shown within demolition limits or by note.
 - Refer to site improvement plans for more details on limits of removal.
 - Demolish existing buildings and clear from site. (Including removal of all footings 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)
 - Clear and grub trees, shrubs, and vegetation within construction limits, disposal to be off-site except where noted otherwise.
 - 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.
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 - Install traffic warning devices as needed in accordance with local standards.
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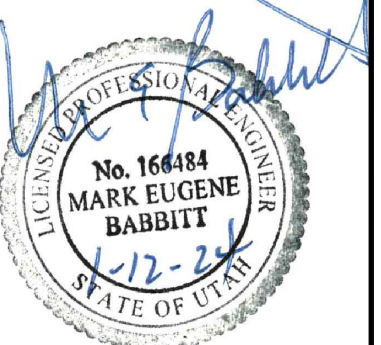
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- Concrete Pipe
- Reinforced Concrete Pipe
- Ductile Iron
- PVC
- Polyvinyl Chloride
- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Grade
- Match Existing

- Fire Department Connection FDC
- 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

Scale: 1" = 20'

Graphic Scale

NO.	DATE	DESCRIPTION



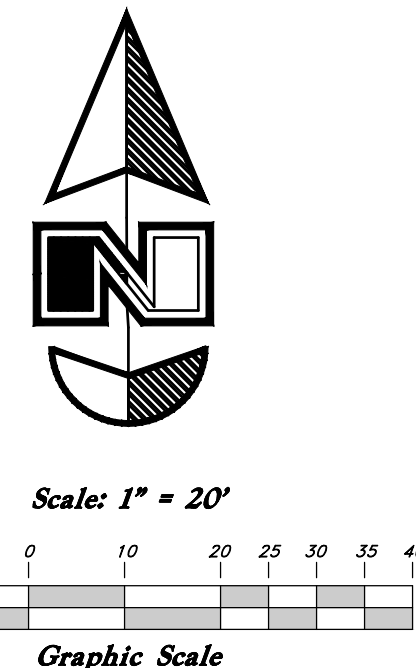
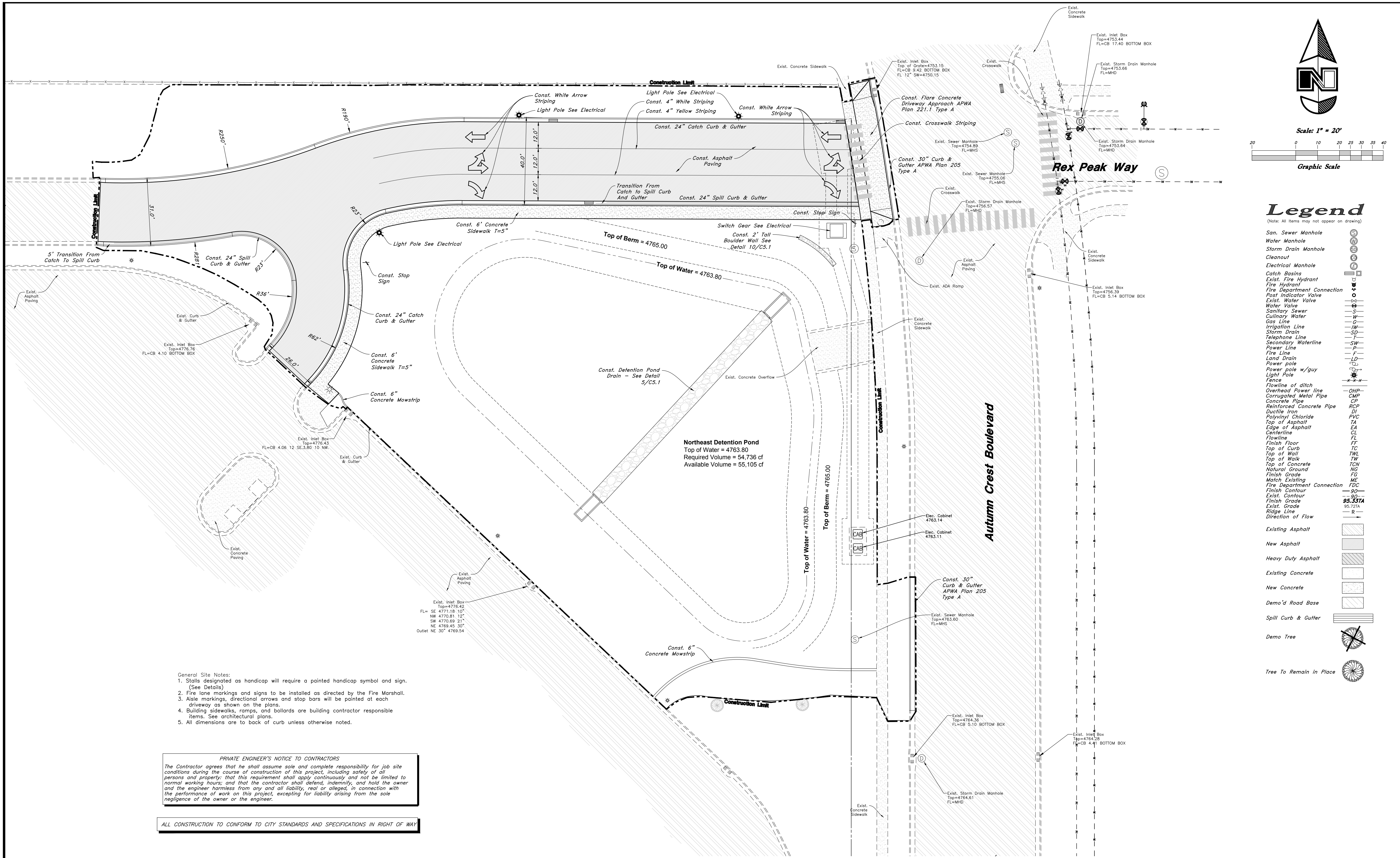
GREAT BASIN ENGINEERING

5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801)394-4515 S.L.L.C. (801)521-0222 FAX (801)392-7544
 W.W.W.G.R.E.A.T.B.A.S.I.N.E.N.G.I.N.E.E.R.I.N.G.C.O.M

Demolition Plan - South

Mountain Ridge High School Access Roads

14202 S Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
 A part of Section 6, T4S, R1W, S1B&M, U.S. Survey



Legend

(Note: All items may not appear on drawing)

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
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- Existing Asphalt
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- New Concrete
- Demo'd Road Base
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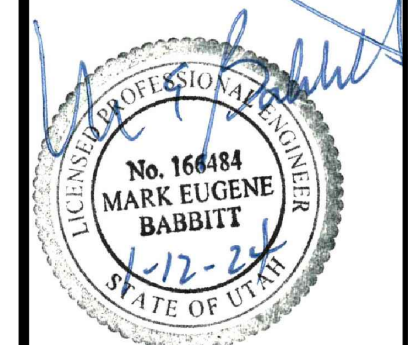
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1. Stalls designated as handicap will require a painted handicap symbol and sign. (See Details)
 2. Fire lane markings and signs to be installed as directed by the Fire Marshall.
 3. Aisle markings, directional arrows and stop bars will be painted 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.

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

NO.	DESCRIPTION	DATE	REV.



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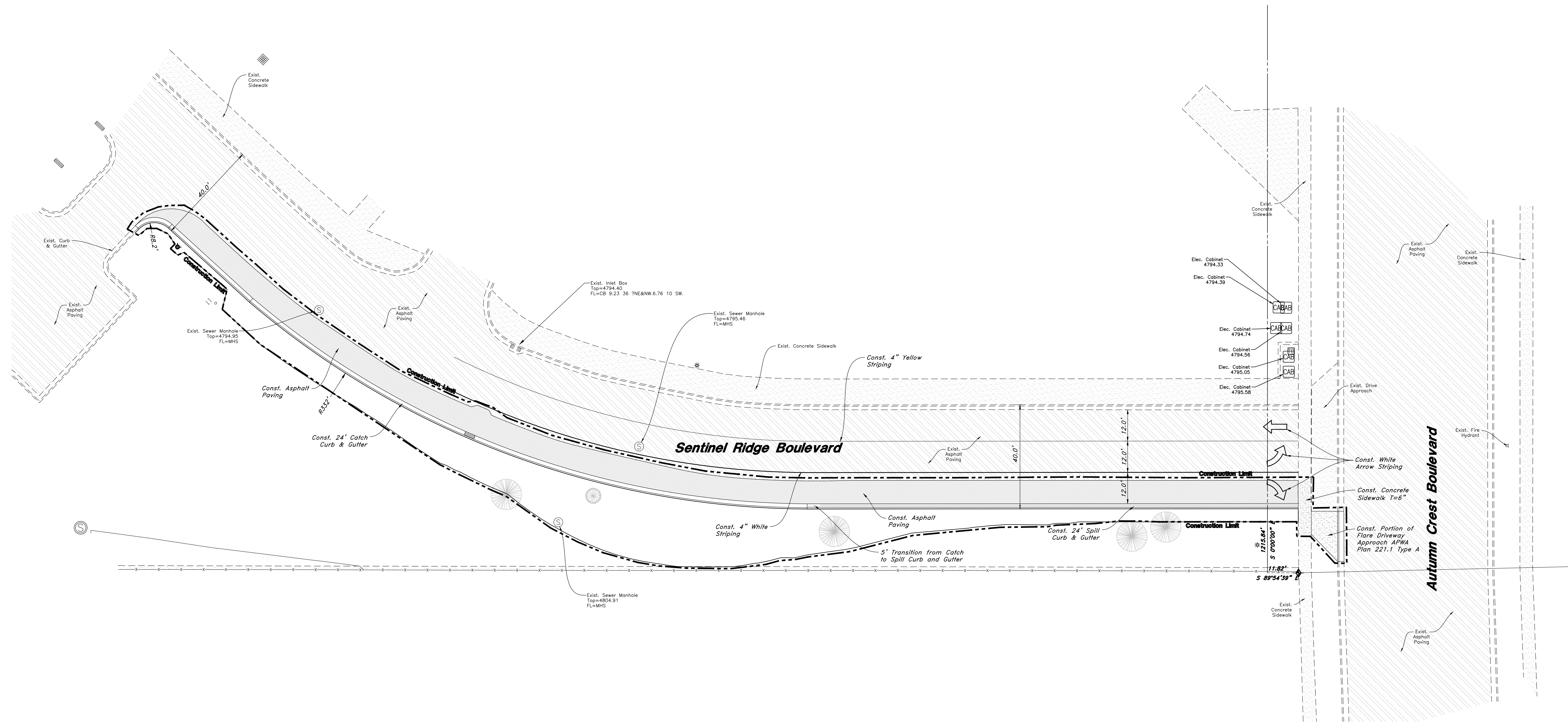
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Site Plan - North (Alternate #1)

Mountain Ridge High School Access Roads

14202 S Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
 A part of Section 6, T4S, R1W, S16&M, U.S. Survey





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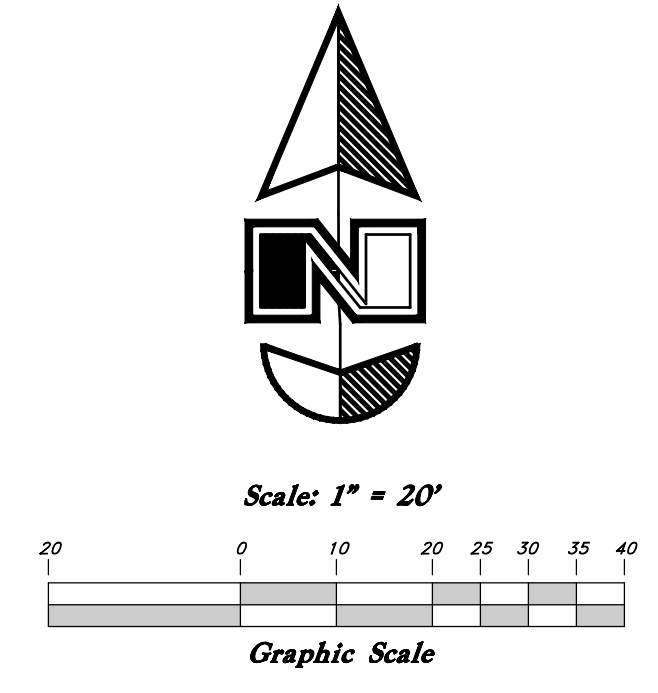
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ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	⊙	Fire Department Connection FDC	—FD—
Water Manhole	⊙	Finish Contour	—90—
Storm Drain Manhole	⊙	Exist. Contour	—91—
Cleanout	⊙	Finish Grade	—95.33TA
Electrical Manhole	⊙	Exist. Grade	—95.72TA
Catch Basins	⊙	Ridge Line	—R—
Exist. Fire Hydrant	⊙	Direction of Flow	→
Fire Department Connection	⊙	Existing Asphalt	[Hatched]
Post Indicator Valve	⊙	New Asphalt	[Solid]
Water Valve	⊙	Heavy Duty Asphalt	[Hatched]
Water Valve	⊙	Existing Concrete	[Hatched]
Sanitary Sewer	—S—	New Concrete	[Solid]
Culinary Water	—W—	Demo'd Road Base	[Hatched]
Gas Line	—G—	Spill Curb & Gutter	[Hatched]
Irrigation Line	—IW—	Demo Tree	[Symbol]
Storm Drain	—SD—	Tree To Remain in Place	[Symbol]
Telephone Line	—T—		
Secondary Waterline	—SW—		
Power Line	—P—		
Fire Line	—F—		
Land Drain	—LD—		
Power pole	—CP—		
Power pole w/guy	—CG—		
Light Pole	—LP—		
Fence	—X—		
Flowline of ditch	—OHP—		
Overhead Power line	—CMP—		
Corrugated Metal Pipe	—RCP—		
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—		
Top of Walk	—TW—		
Top of Concrete	—TCN—		
Natural Ground	—NG—		
Finish Grade	—FG—		
Match Existing	—ME—		

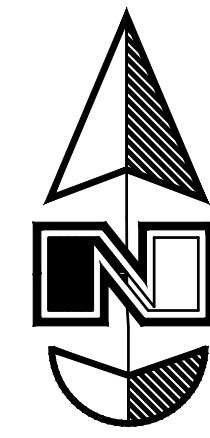


REV	DATE	DESCRIPTION

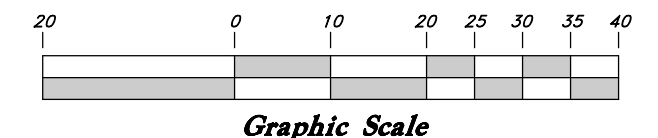


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 W.W.W. GREATBASINENGINEERING.COM

Site Plan - South
Mountain Ridge High School Access Roads
 14202 S Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
 A part of Section 6, T4S, R1W, S16&M, U.S. Survey
 12 Jan, 2024
 SHEET NO.
C1.2
 23N216



Scale: 1" = 20'



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
- TA
- EA
- CL
- Centerline
- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- TW
- Top of Walk
- TCN
- Natural Ground
- FG
- Finish Grade
- ME
- 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

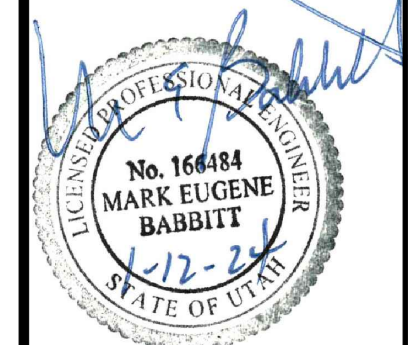
New Concrete

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)394-4515 SLLC (801)521-0222
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Grading and Drainage Plan - North (Alternate #1)

Mountain Ridge High School Access Roads

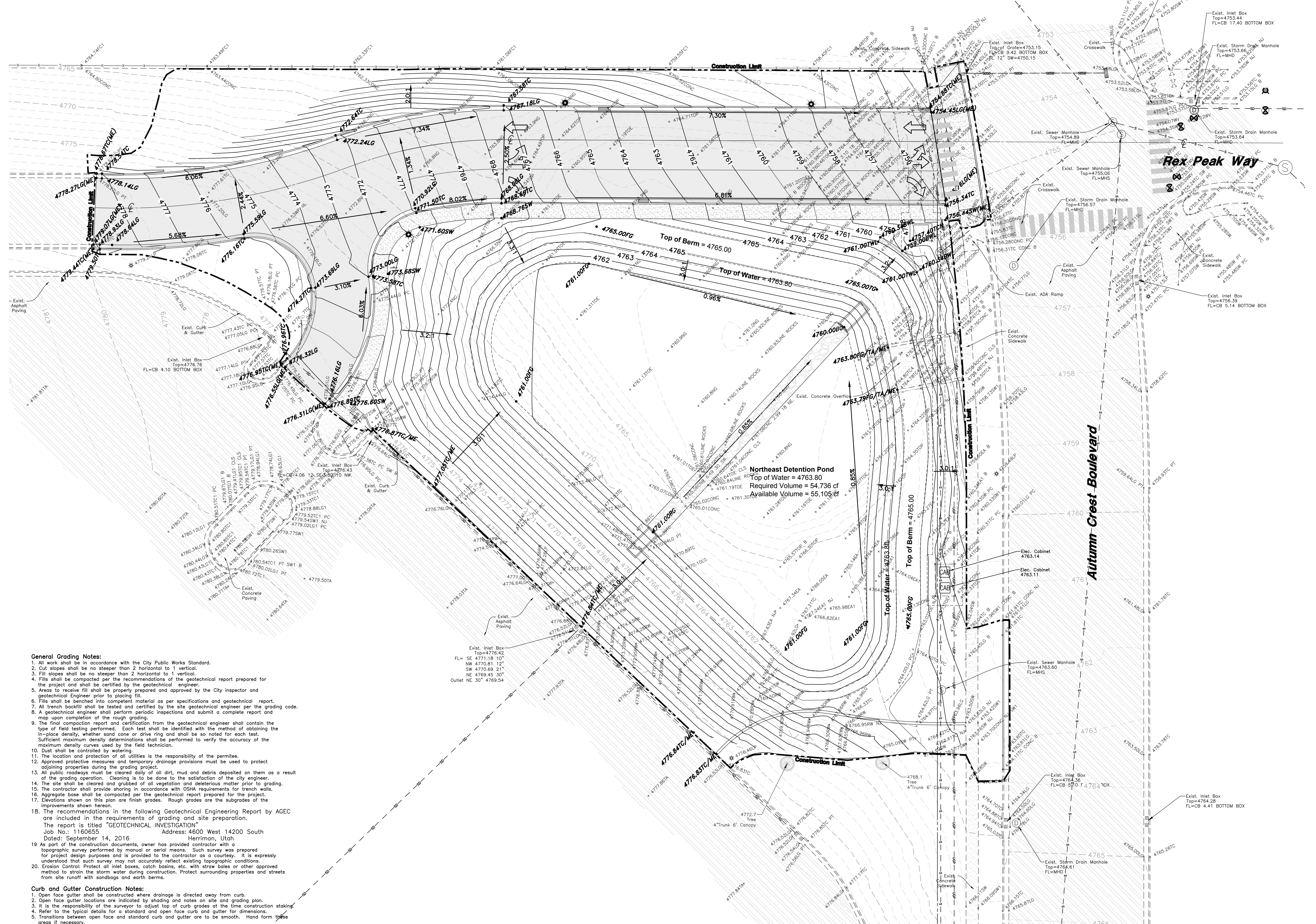
14202 S. Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
 A part of Section 6, T4S, R1W, S18&M, U.S. Survey

12 Jan, 2024

SHEET NO.

C2.1

23N216

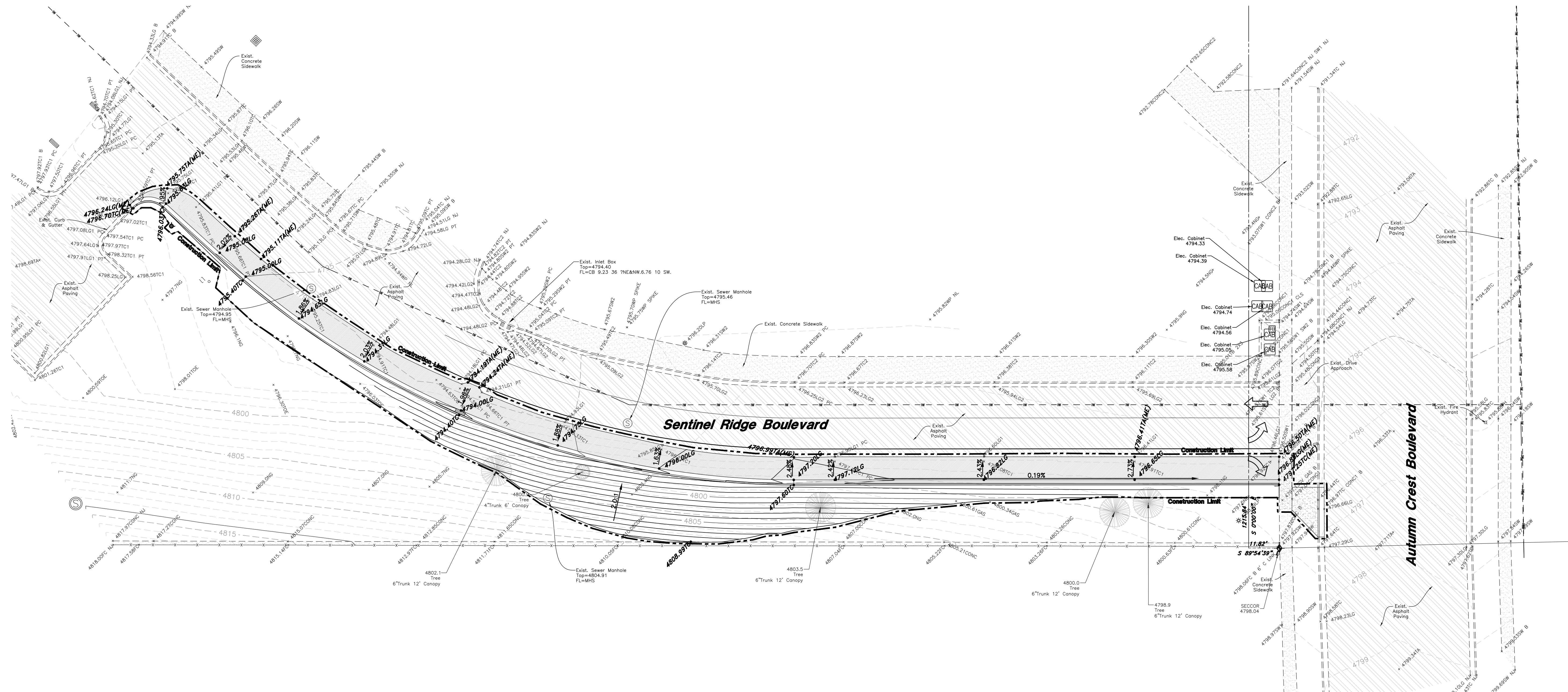


- General Grading Notes:**
- All work shall be in accordance with the City Public Works Standard.
 - Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
 - Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
 - Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
 - Areas to receive fill shall be properly prepared and approved by the City Inspector and geotechnical Engineer prior to placing fill.
 - Fills shall be benched into compact material as per specifications and geotechnical report.
 - All trench basins shall be tested and certified by the site geotechnical engineer per the grading code.
 - A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
 - The final construction 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 related to 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 placed and compacted per the geotechnical report prepared for the project.
 - Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
 - The recommendations in the following Geotechnical Engineering Report by AGEC are included in the requirements of grading and site preparation.
 The report is titled "GEOTECHNICAL INVESTIGATION"
 Job No.: 1160655 Address: 4600 West 14200 South
 Dated: September 14, 2016 Herriman, Utah
 - 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 strain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.
- Curb and Gutter Construction Notes:**
- Open face gutter shall be constructed where drainage is directed away from curb.
 - Open face gutter locations are indicated by shading and notes on site and grading plan.
 - It is the responsibility of the surveyor to adjust top of curb grades at the time construction staking.
 - Refer to the typical details for a standard and open face curb and gutter for dimensions.
 - 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 routes 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.

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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 - Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
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 - Fills shall be benched into competent material as per specifications and geotechnical report.
 - All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
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 - 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.
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 - The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
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 - Aggregate base shall be compacted per the geotechnical report prepared for the project.
 - Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
 - The recommendations in the following Geotechnical Engineering Report by AGECC are included in the requirements of grading and site preparation.
The report is titled "GEOTECHNICAL INVESTIGATION"
Job No.: 1160555 Address: 4800 West 14200 South
Dated: September 14, 2016 Herriman, Utah
 - 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 strain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

Curb and Gutter Construction Notes:

- Open face gutter shall be constructed where drainage is directed away from curb.
- Open face gutter locations are indicated by shading and notes on site and grading plan.
- It is the responsibility of the contractor to adjust top of curb grades at the time construction staking.
- Refer to the typical details for a standard and open face curb and gutter for dimensions.
- 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 routes 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 FMMA.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

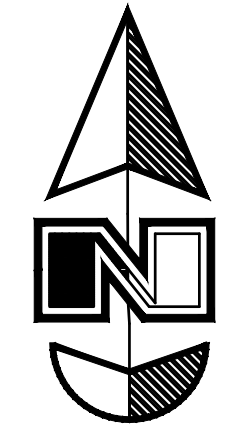
The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the 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

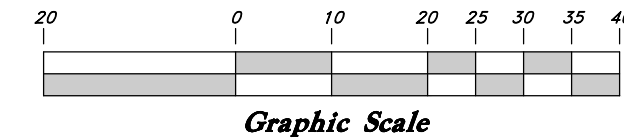
Legend

(Note: All items may not appear on drawing)

San. Sewer Manhole	⊙	Fire Department Connection	— FDC
Water Manhole	⊙	Finish Contour	— 90
Storm Drain Manhole	⊙	Finish Contour	— 95.33TA
Cleanout	⊙	Exist. Grade	— 95.72TA
Electrical Manhole	⊙	Ridge Line	— R
Catch Basins	⊙	Direction of Flow	→
Exist. Fire Hydrant	⊙	Existing Asphalt	▨
Fire Department Connection	⊙	New Asphalt	▨
Post Indicator Valve	⊙	Heavy Duty Asphalt	▨
Exist. Water Valve	⊙	Existing Concrete	▨
Water Valve	⊙	New Concrete	▨
Sanitary Sewer	— S	Demo'd Road Base	▨
Culinary Water	— W	Spill Curb & Gutter	▨
Gas Line	— G	Demo Tree	⊙
Irrigation Line	— I	Tree To Remain in Place	⊙
Storm Drain	— SD		
Telephone Line	— T		
Secondary Waterline	— SW		
Power Line	— P		
Fire Line	— F		
Land Drain	— LD		
Power pole	⊙		
Power pole w/guy	⊙		
Light Pole	⊙		
Fence	—		
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		
Top of Walk	— TW		
Top of Concrete	— TCN		
Natural Ground	— NG		
Finish Grade	— FG		
Match Existing	— ME		



Scale: 1" = 20'



NO.	DATE	DESCRIPTION



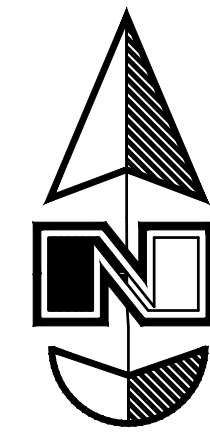
GREAT BASIN ENGINEERING

14202 S. Sentinel Ridge Boulevard
Herriman City, Salt Lake County, Utah
A part of Section 6, T4S, R1W, S18&M, U.S. Survey

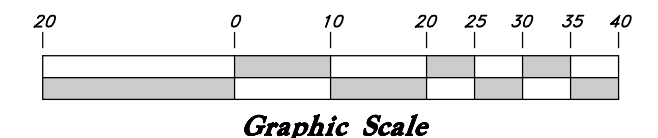
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801)394-4515 S.L.L.C. (801)521-0222 FAX (801)392-7544
WWW.GREATBASINENGINEERING.COM

Grading and Drainage Plan - South

Mountain Ridge High School Access Roads



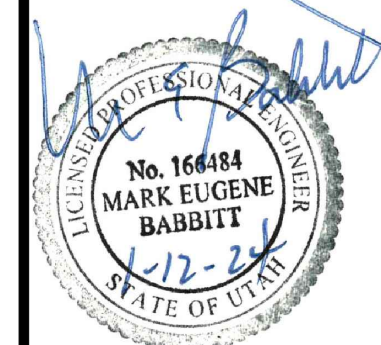
Scale: 1" = 20'



Legend

(Note: All items may not appear on drawing)

- San. Sewer Manhole
- Water Manhole
- Storm Drain Manhole
- Catch Basin
- Electrical Manhole
- Fire Hydrant
- Fire Department Connection
- Post Indicator 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
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- Corrugated Metal Pipe
- Concrete Pipe
- Reinforced Concrete Pipe
- Ductile Iron
- Polyvinyl Chloride
- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Finish Floor
- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Grade
- Match Existing
- Fire Department Connection
- Finish Contour
- Existing Contour
- Finish Grade
- Existing Grade
- Ridge Line
- Direction of Flow



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Utility Plan - North (Alternate #1)

Mountain Ridge High School Access Roads

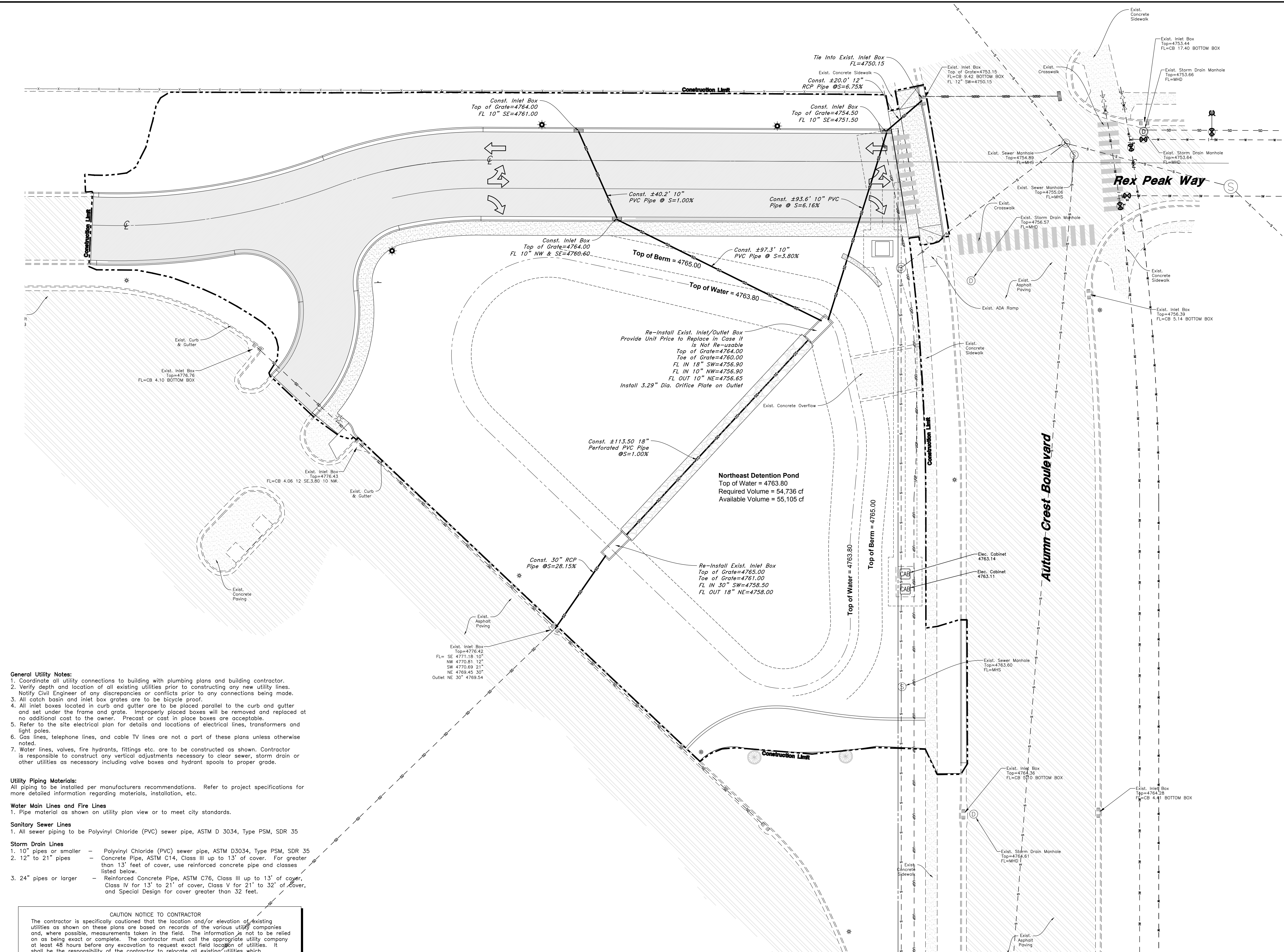
14202 S. Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
 A part of Section 6, T4S, R1W, S1B&M, U.S. Survey

12 Jan, 2024

SHEET NO.

C3.1

23N216



- 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 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.

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

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

- 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.

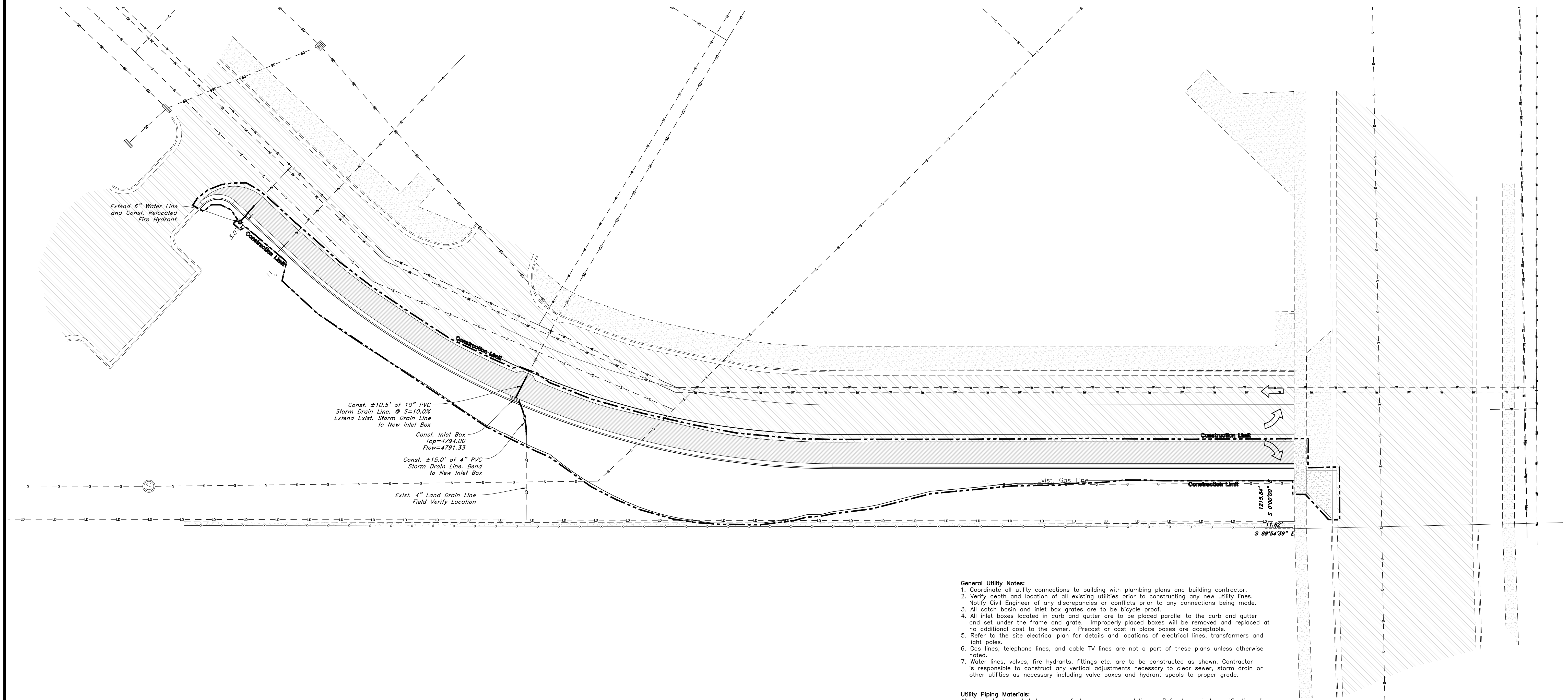
CAUTION NOTICE TO CONTRACTOR

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

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



Const. ±10.5' of 10" PVC Storm Drain Line, ϕ S=10.0%
Extend Exist. Storm Drain Line to New Inlet Box

Const. Inlet Box
Top=4794.00
Flow=4791.33

Const. ±15.0' of 4" PVC Storm Drain Line, Bend to New Inlet Box

Exist. 4" Land Drain Line
Field Verify Location

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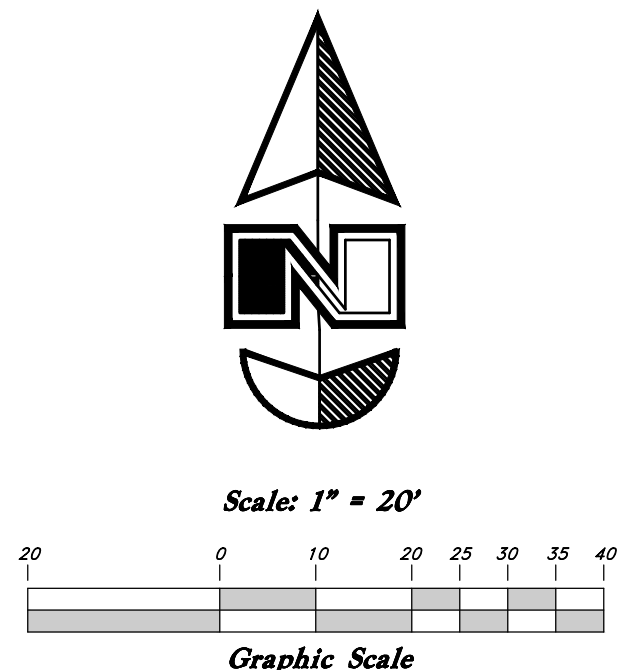
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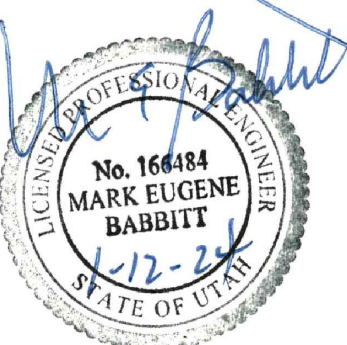
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ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY



REV	DATE	DESCRIPTION



GREAT BASIN ENGINEERING

5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801)394-4515 S.L.L.C. (801)392-7544
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Utility Plan - South

Mountain Ridge High School Access Roads

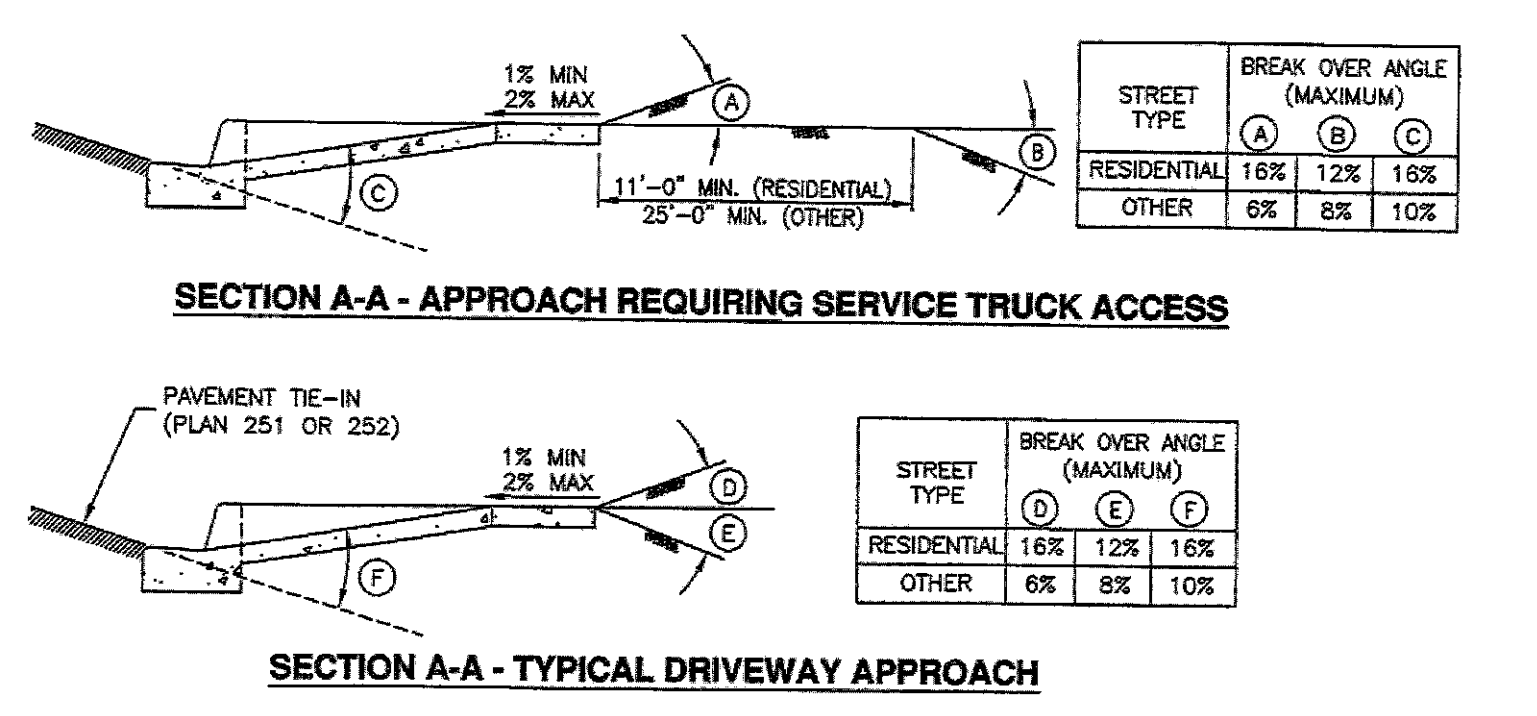
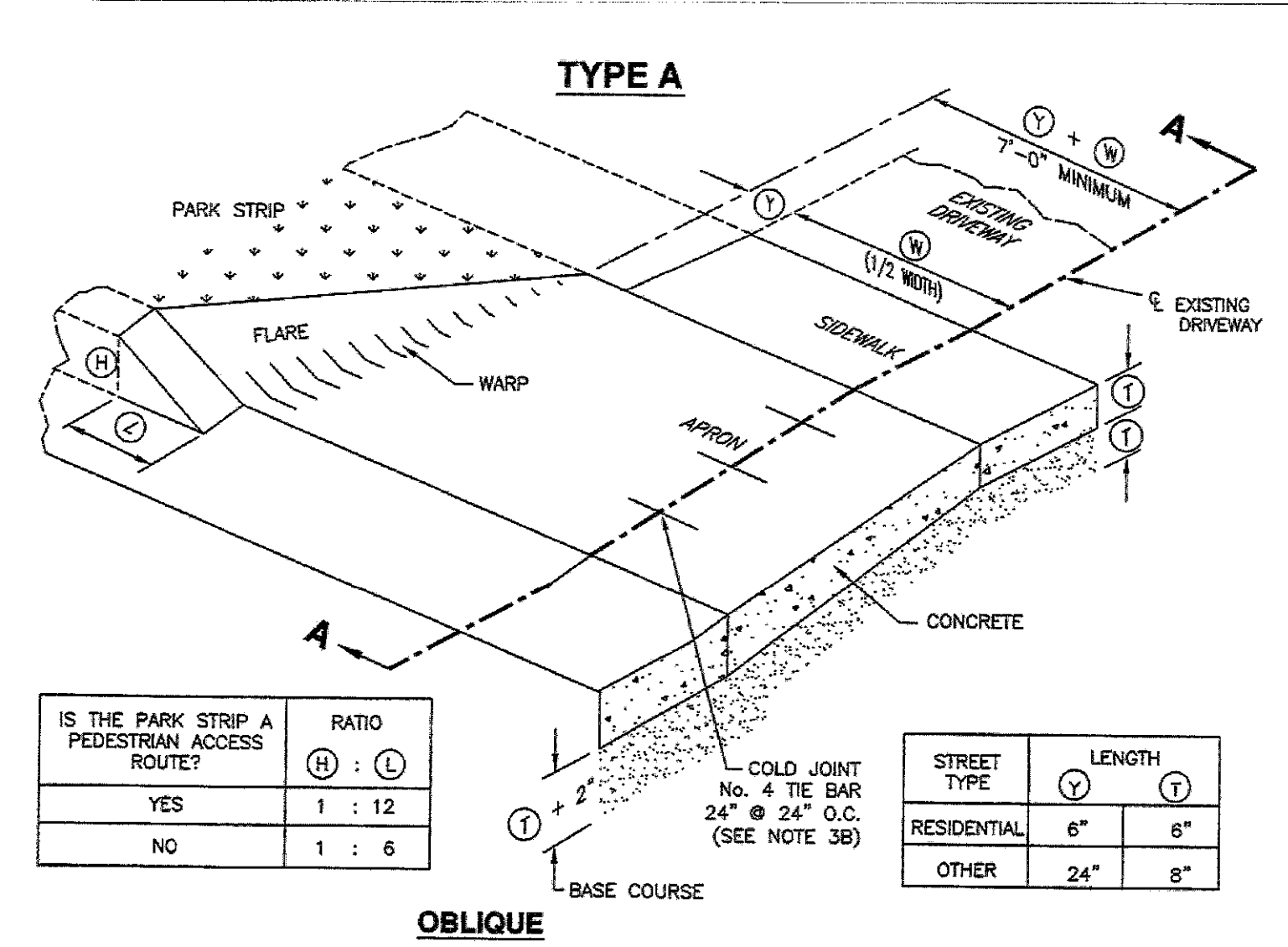
14202 S Sentinel Ridge Boulevard
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12 Jan, 2024

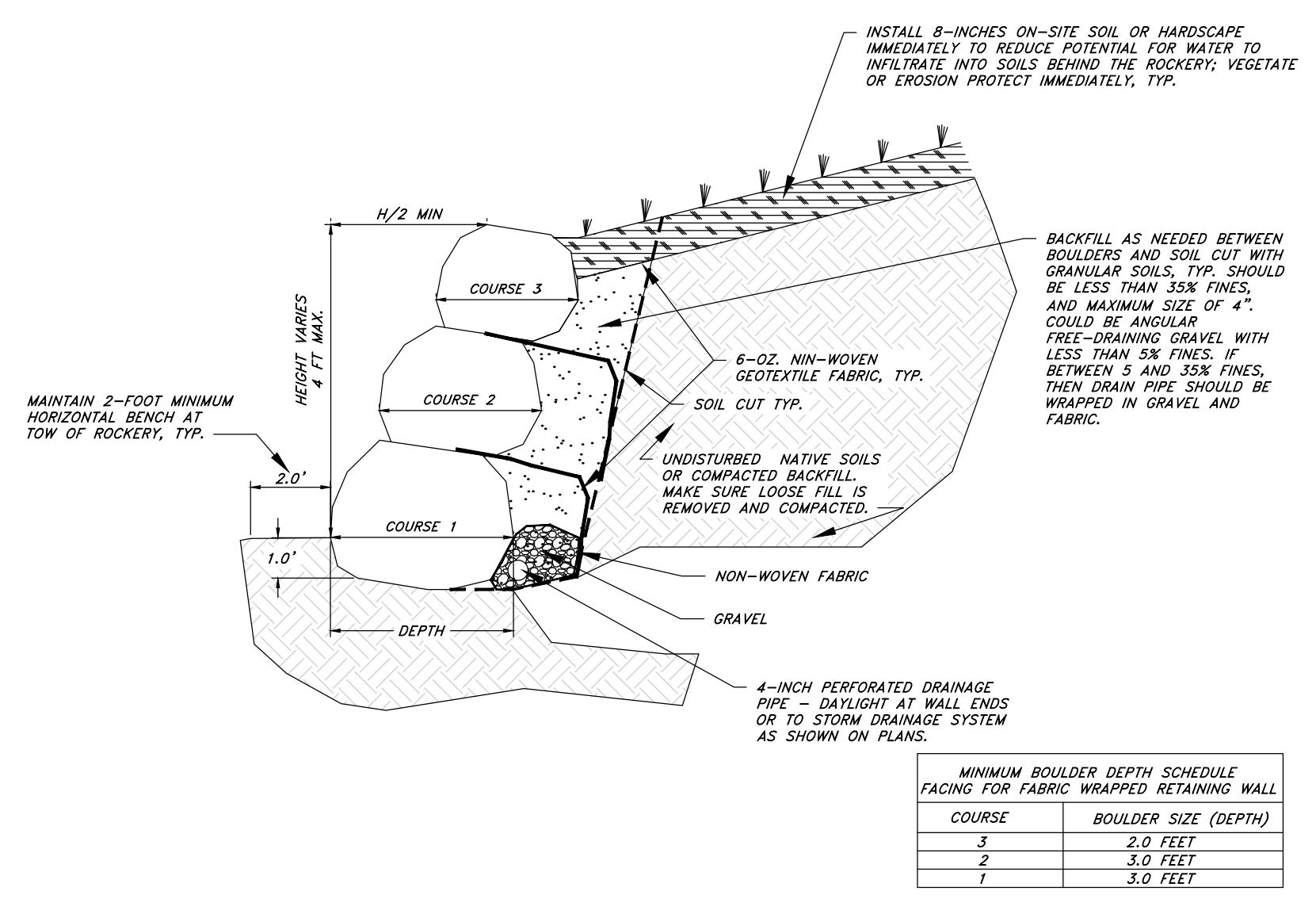
SHEET NO.

C3.2

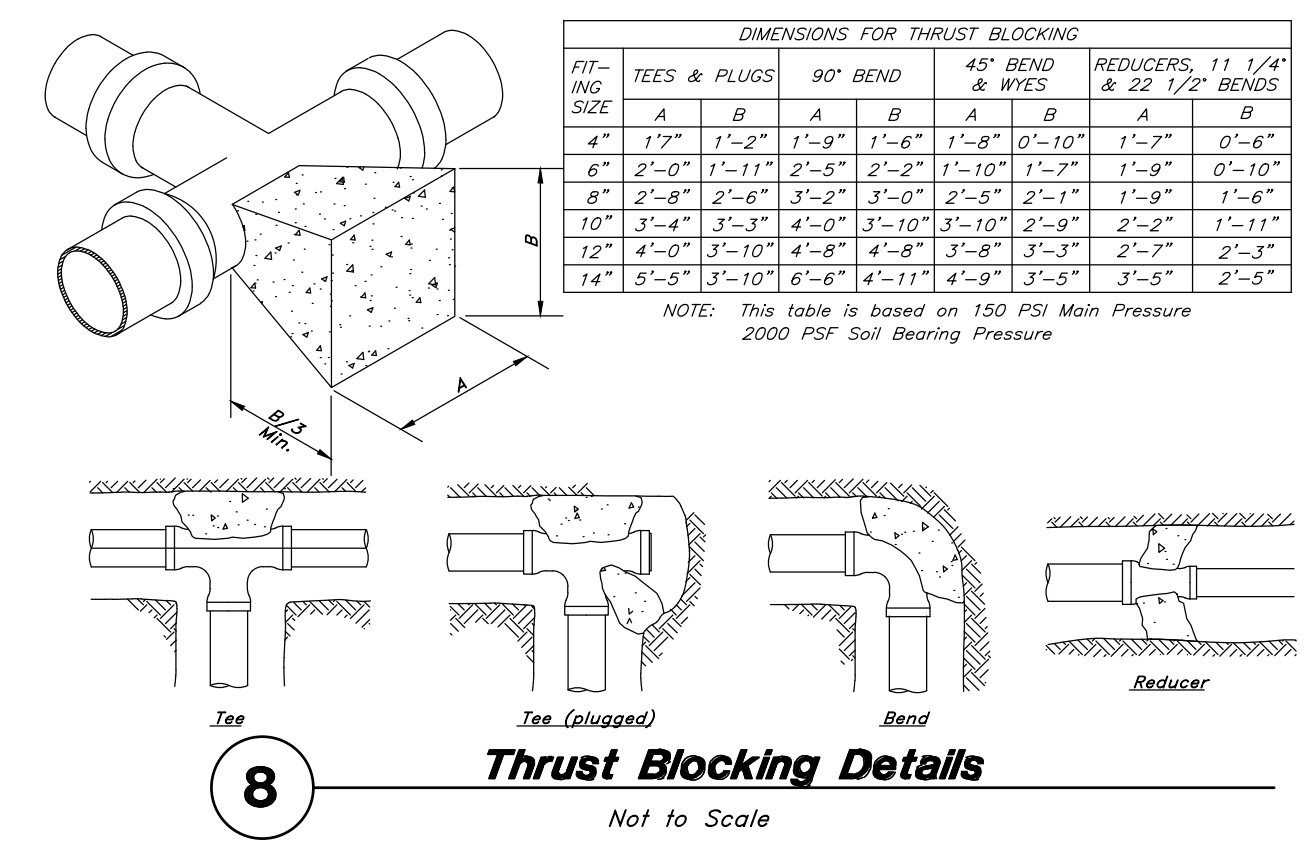
23N216



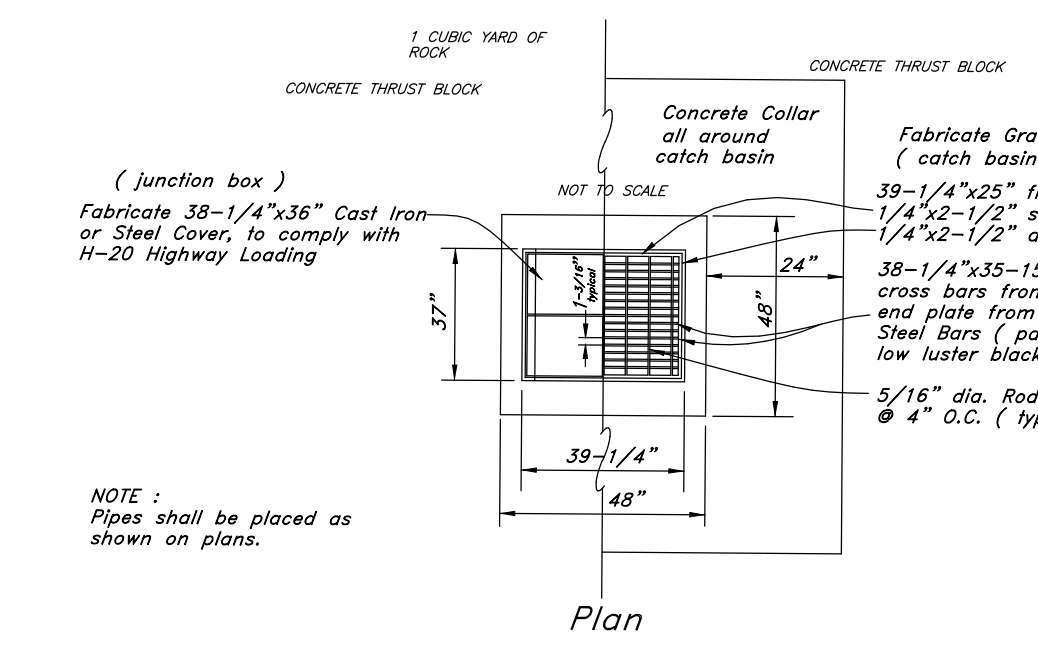
APWA Utah Chapter
 Flare driveway approach
 Plan 221.1
 December 2009



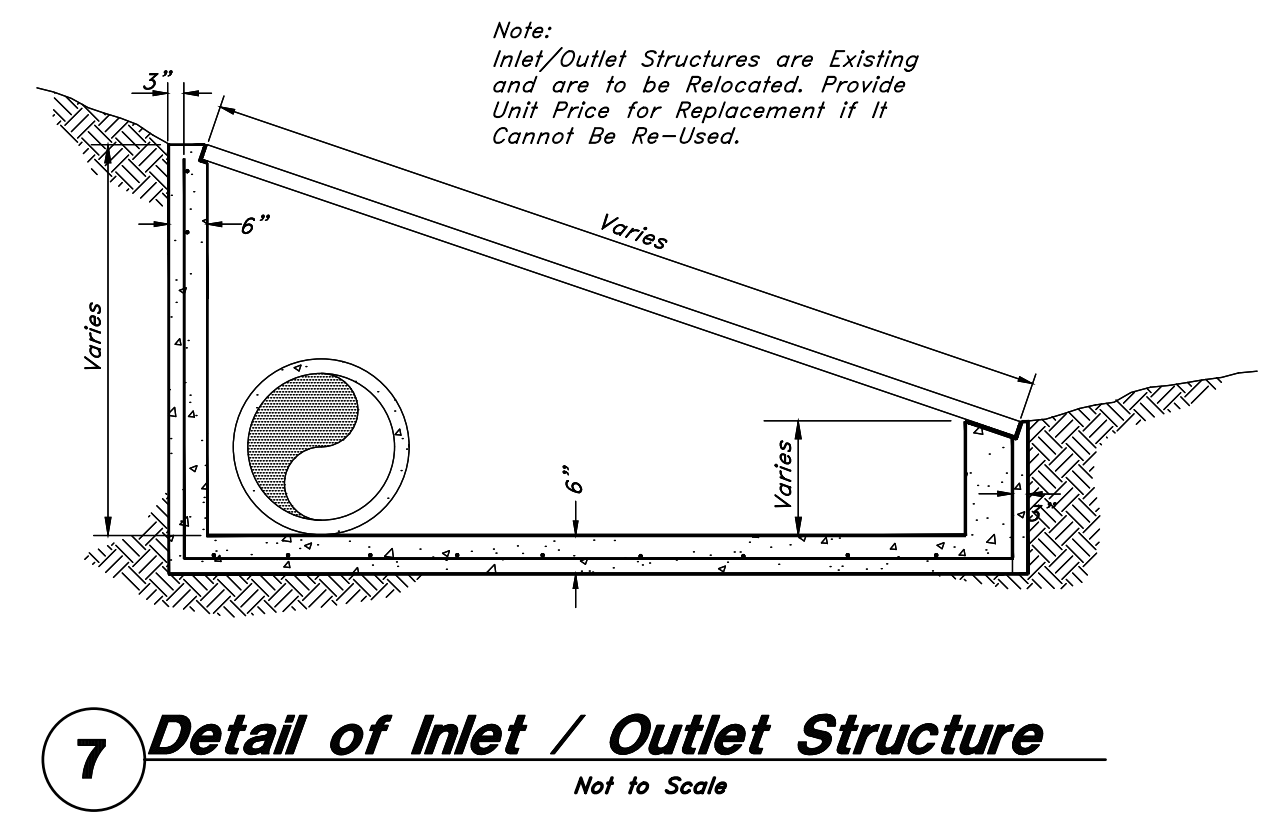
10 Rock Wall Detail
 Not to Scale



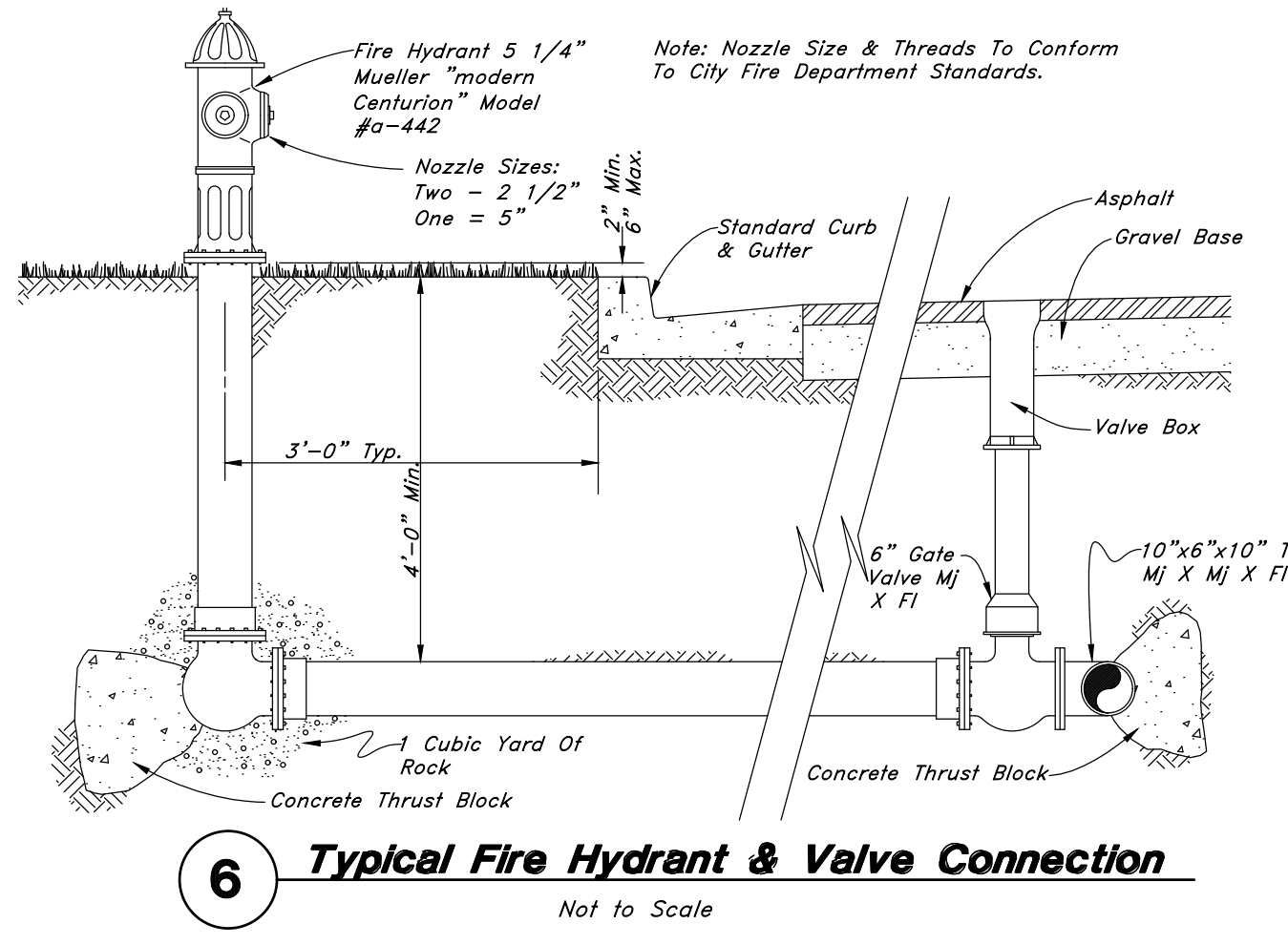
8 Thrust Blocking Details
 Not to Scale



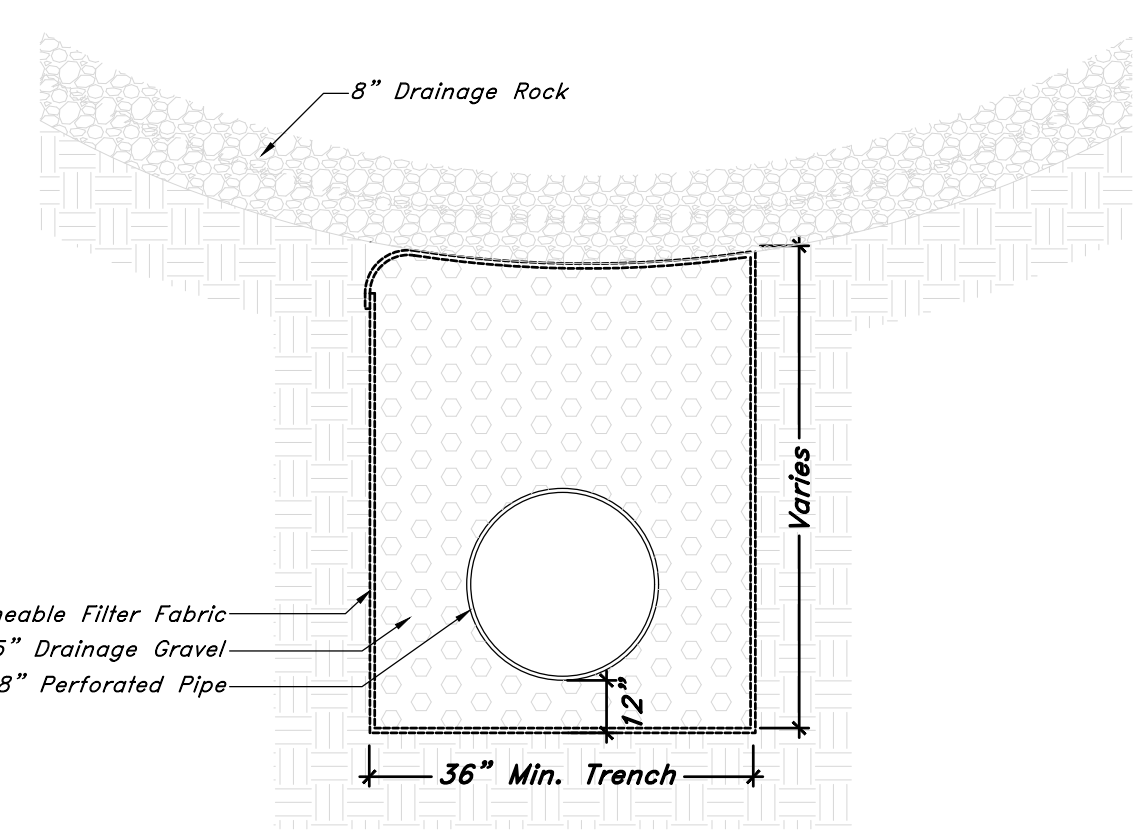
9 Large 36"x36" Catch Basin
 Not to Scale



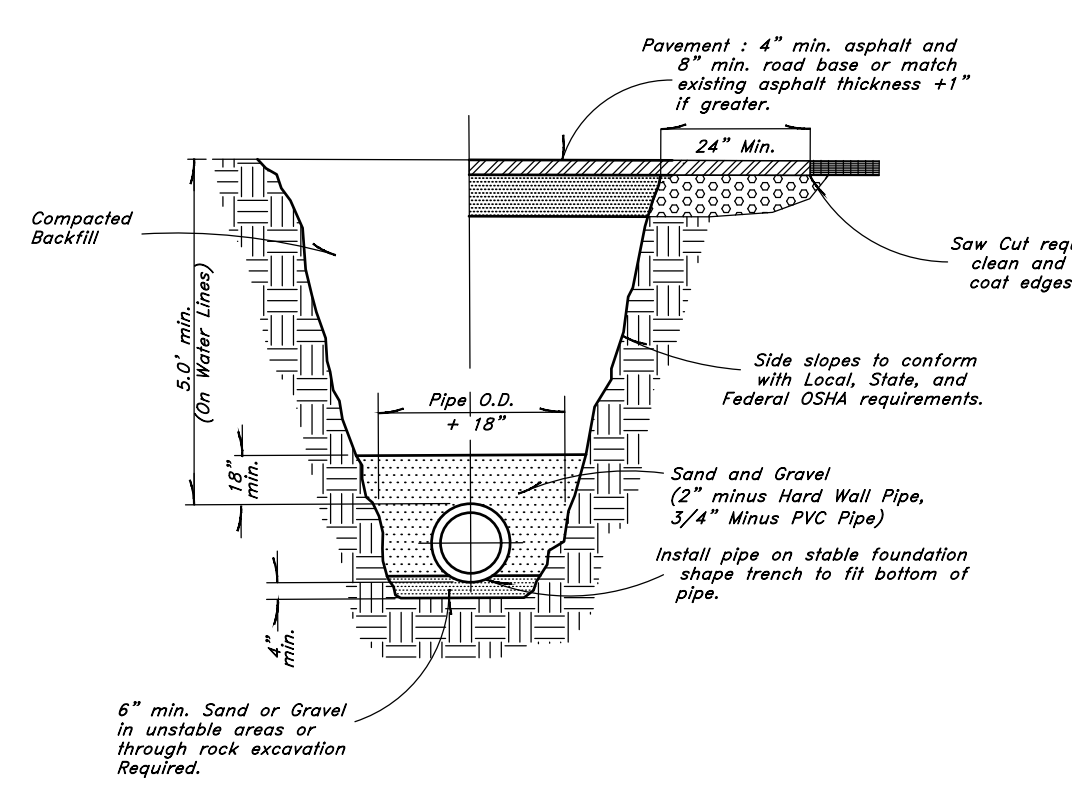
7 Detail of Inlet / Outlet Structure
 Not to Scale



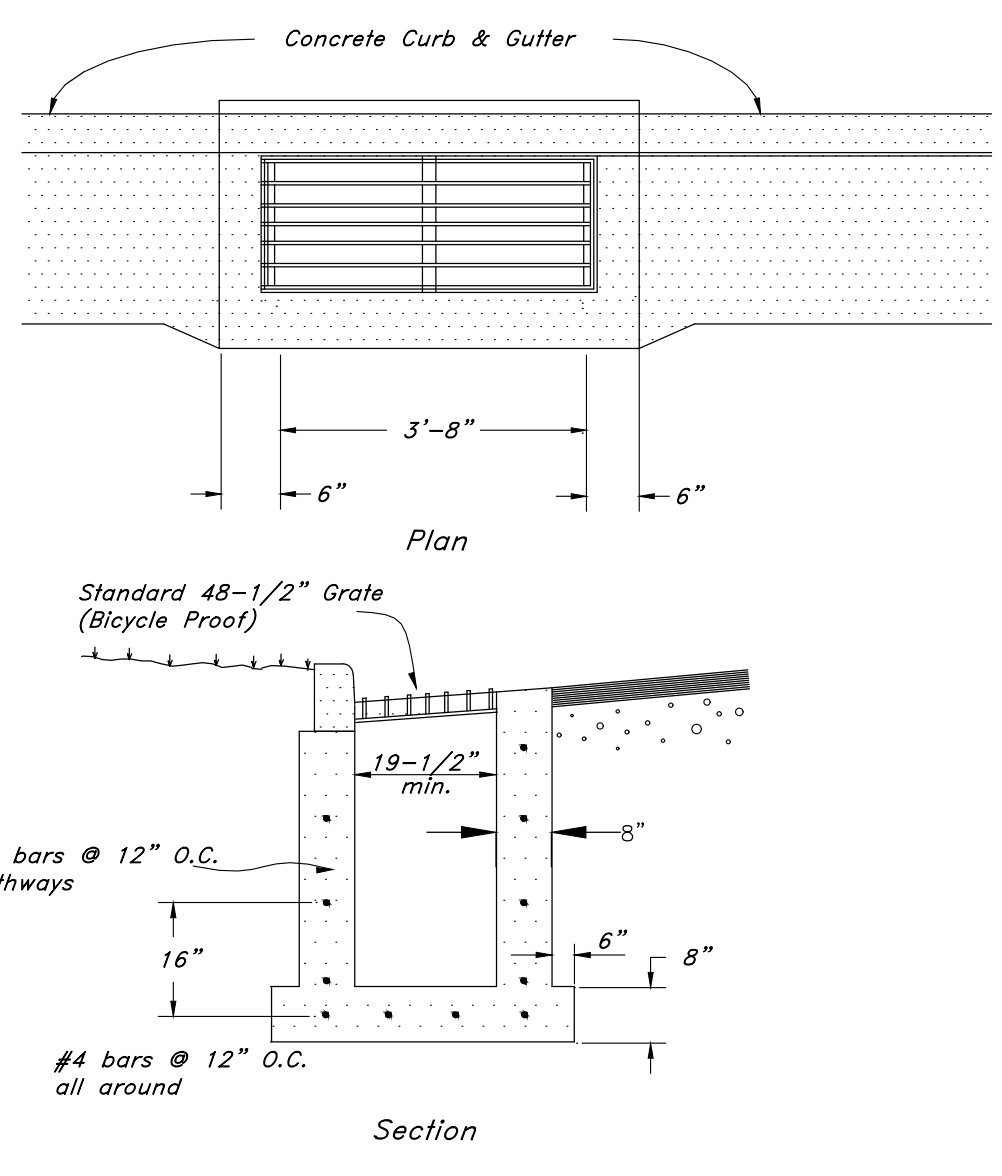
6 Typical Fire Hydrant & Valve Connection
 Not to Scale



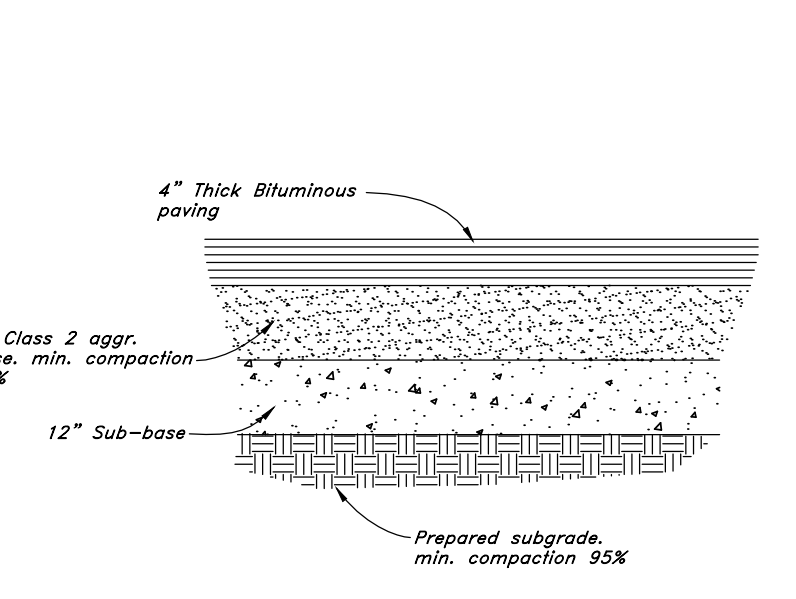
5 Detention Pond Drain
 Not to Scale



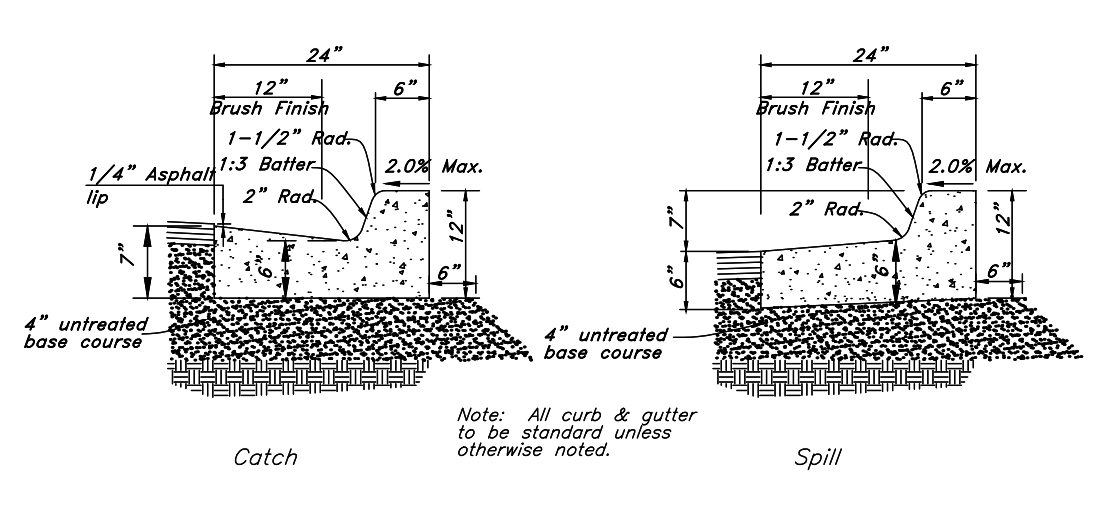
4 Typical Trench Detail
 Not to Scale



3 Typical Inlet Box
 in curb & gutter
 Not to Scale



2 Typical Bituminous Pavement Section
 Heavy Duty Drives
 Not to Scale

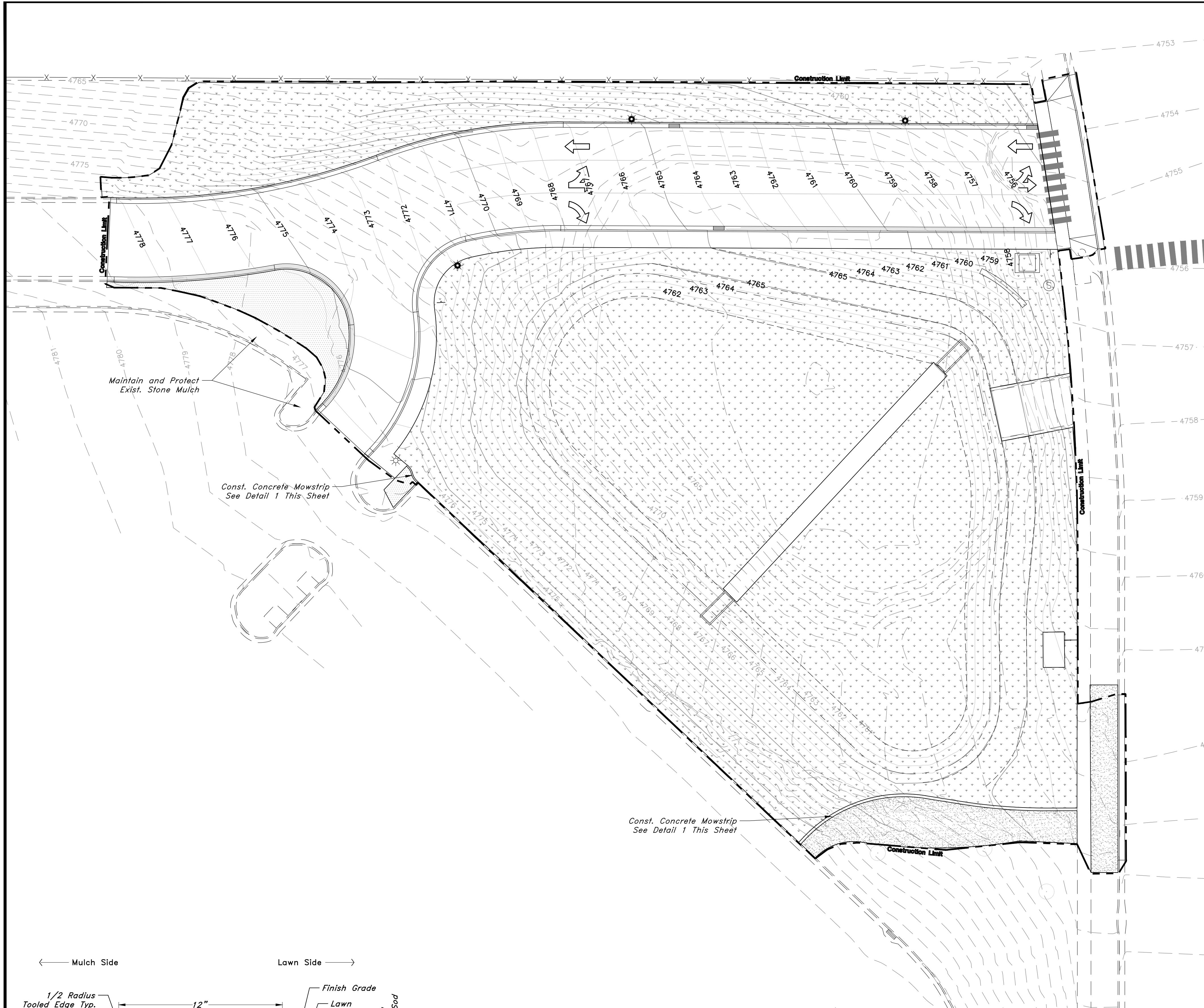


1 Typical Section - 24" Curb & Gutter
 Not to Scale

NO.	DATE	REV.	DESCRIPTION

GREAT BASIN ENGINEERING
 No. 166484
 MARK EUGENE BABBITT
 STATE OF UTAH
 5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801)394-4515 S.L.L.C. (801)392-7544
 WWW.GREATBASINENGINEERING.COM

Construction Details
 Mountain Ridge High School Access Roads
 14202 S. Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
 A part of Section 6, T4S, R1W, S1B&M, U.S. Survey



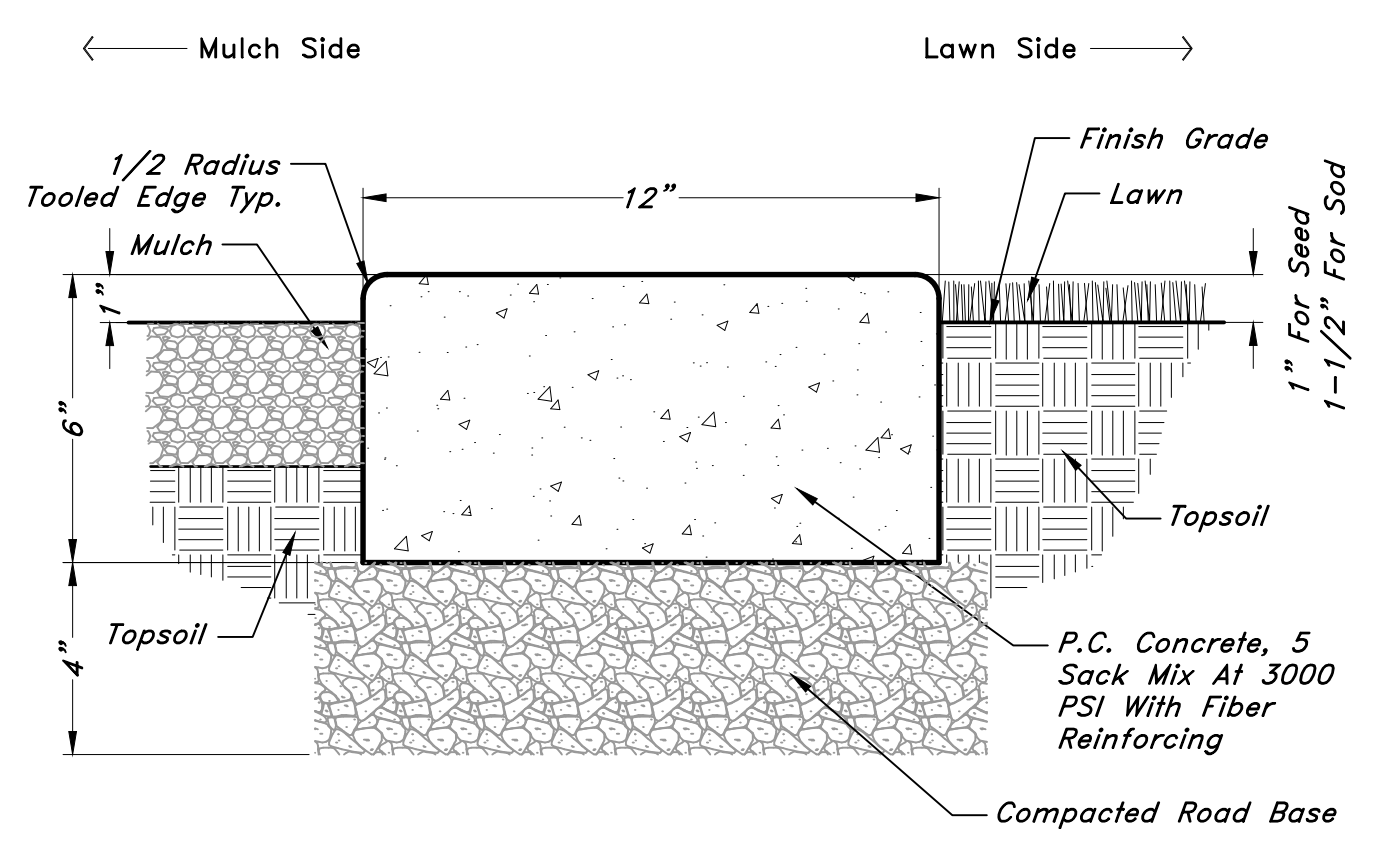
PLANT SCHEDULE NORTH

SYMBOL	QTY	BOTANICAL / COMMON NAME
GROUND COVERS		
	1,304 sf	Decorative Gravel Mulch / 1.5"-2" Washed Crushed/Angular Gravel
	2,079 sf	1.5-2" Gray Washed Angular Gravel to Match Exist. Place 4" Deep Over Dewitt Pro5 Weed Barrier Fabric - Submit Physical Samples for Approval
	47,384 sf	Dwarf fescue Sod Plant Over 6" Deep Topsoil - See Specifications Grass & Wildflower Seed Mix Hydroseed over 2" thick Stockpiled Topsoil- See Grass & Wildflower Seed Mix Schedule

Grass & Wildflower Seed Mix		Seed Rate 18.26 lbs/acre				
Grasses						
% of mix	Scientific Name	Common Name	lbs/acre	Seeds/lb	Seeds/acre	Seed/sf
9.9%	Bouteloua gracilis 'Hachita'	Blue Grama	1.8	825,000	1,485,000	34
11.0%	Bouteloua curtipendula	Side Oats Grama	2	190,000	380,000	9
32.9%	Buchloe dactyloides	Buffalograss	6	56,000	336,000	8
32.9%	Paspalum smithii	Western Wheatgrass	6	110,000	660,000	15
7.7%	Schizachyrium scoparium	Little Bluestem	1.4	260,000	364,000	8
0.5%	Sporobolus cryptandrus	Sand Dropseed	0.1	5,298,000	529,800	12
2.7%	Nassella viridula	Green Needlegrass	0.5	181,000	90,500	2
Wildflowers						
% of mix	Scientific Name	Common Name	lbs/acre	Seeds/lb	Seeds/acre	Seed/sf
1.1%	Gaillardia aristata	Blanketflower	0.2	132,000	26,400	1
0.5%	Liatris punctata	Greyfeather	0.1	116,000	11,600	0.3
0.5%	Petalostamum purpurem	Purple Prairie Clover	0.1	260,000	26,000	1
0.3%	Ratibida columnaris	Prairie Coneflower	0.06	260,000	15,600	0.4
100%			18.26		3,924,900	90

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 IMPORTED (HARVESTED AND STOCKPILED ON SITE) TO THE SITE. SUBMIT TOPSOIL TEST. SCREEN AND AMEND TO MEET THE FOLLOWING STANDARDS:
 - ORGANIC MATTER: GREATER THAN 1.0%
 - SOLUBLE SALTS: LESS THAN 4 dS/m
 - PH: BETWEEN 5.0 AND 8.2
 - TEXTURE: SAND: 15-60%, SILT: 10-60% CLAY 5-30%.
 - SODIUM ADSORPTION RATIO (SAR): BELOW 10 FOR SANDY CLAY LOAM, SANDY LOAM AND LOAM. BELOW 7 FOR SILT LOAM, SILTY CLAY LOAM, AND CLAY LOAM.
 - COARSE FRAGMENTS 2mm AND SMALLER: LESS THAN 5%.
 - NO ROCKS OVER 1.5"
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING 6" OF TOPSOIL FOR TURF AND 12" OF TOPSOIL FOR 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.
- TURFGRASS SOD SHALL BE CERTIFIED NUMBER 1 QUALITY/PREMIUM SOD - SEE SPECIFICATIONS.



1 12" MOWSTRIP
3" = 1'-0"
DETAIL-FILE

DESCRIPTION
DATE
REV

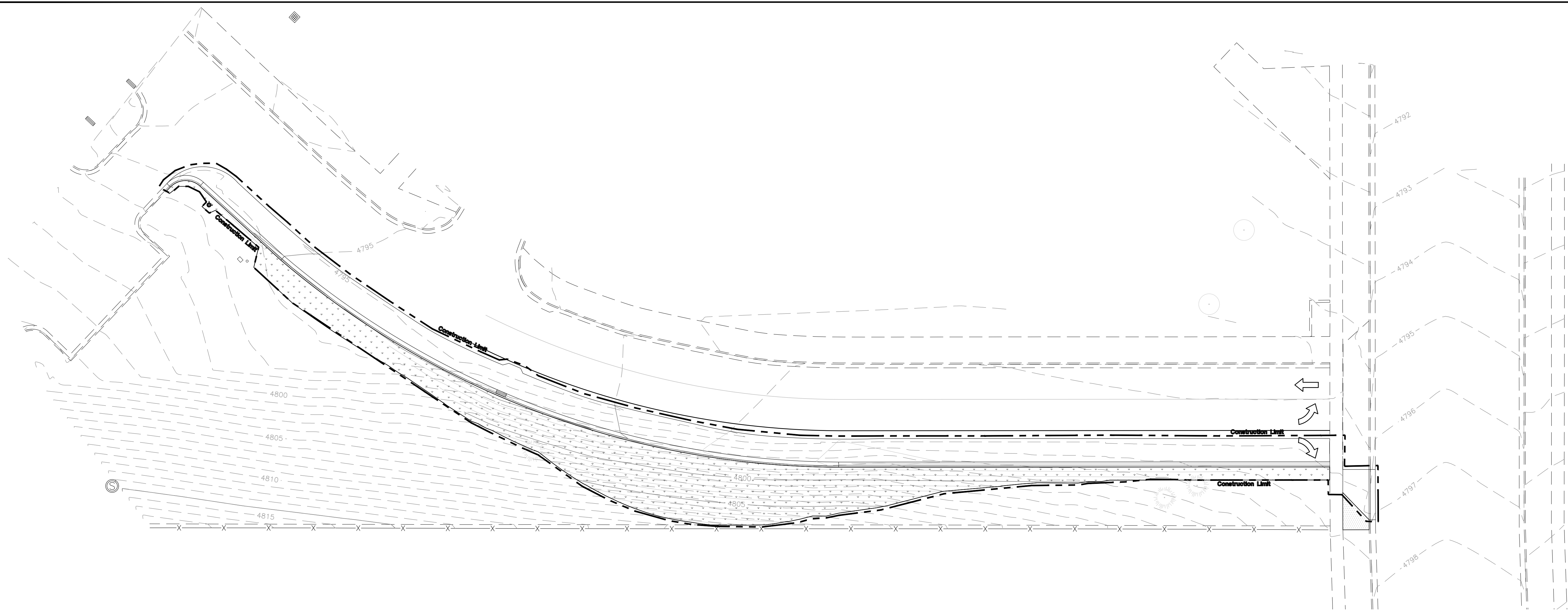
JAMES D. ZAUGG
 3095204
 01/18/2024
 LANDSCAPE ARCHITECT

GREAT BASIN ENGINEERING
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LP.1
 23N216

Landscape Plan - North (Alternate #1)
Mountain Ridge High School Access Roads
 14202 S. Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
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12 Jan, 2024
 SHEET NO.



PLANTING NOTES

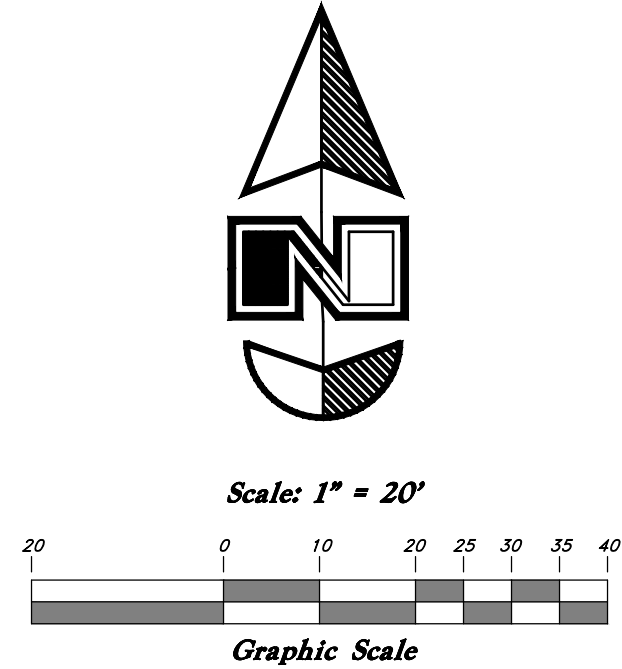
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PLANT SCHEDULE NORTH

SYMBOL	QTY	BOTANICAL / COMMON NAME
[Pattern]	1,304 sf	Decorative Gravel Mulch / 1.5"-2" Washed Crushed/Angular Gravel
[Pattern]	2,079 sf	1.5-2" Gray Washed Angular Gravel to Match Exist. Place 4" Deep Over Dewitt Pro5 Weed Barrier Fabirc - Submit Physical Samples for Approval
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Grass & Wildflower Seed Mix **Seed Rate 18.26 lbs/acre**

Grasses		Common Name	lbs/acre	Seeds/lb	Seeds/acre	Seeds/sf
% of mix	Scientific Name					
9.9%	Bouteloua gracilis 'Hachita'	Blue Grama	1.8	825,000	1,485,000	34
11.0%	Bouteloua curtipendula	Side Oats Grama	2	190,000	380,000	9
32.9%	Buchloe dactyloides	Buffalograss	6	56,000	336,000	8
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7.7%	Schizachyrium scoparium	Little Bluestem	1.4	260,000	364,000	8
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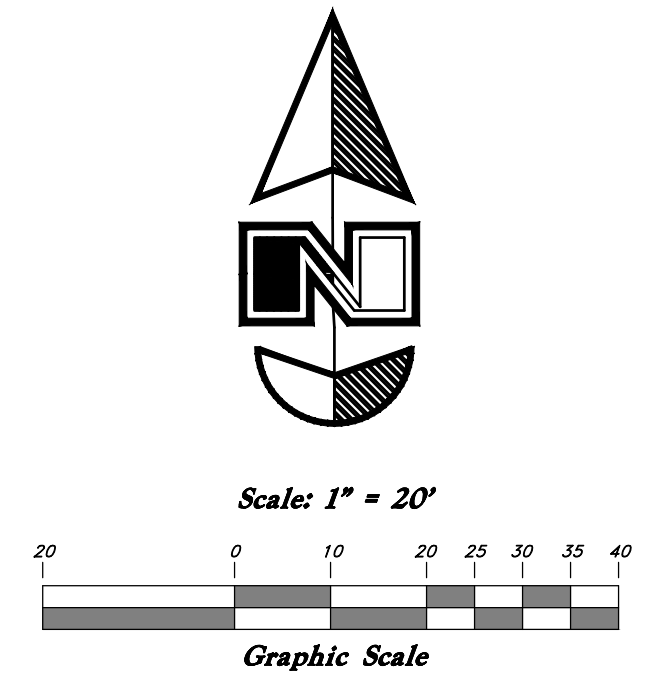
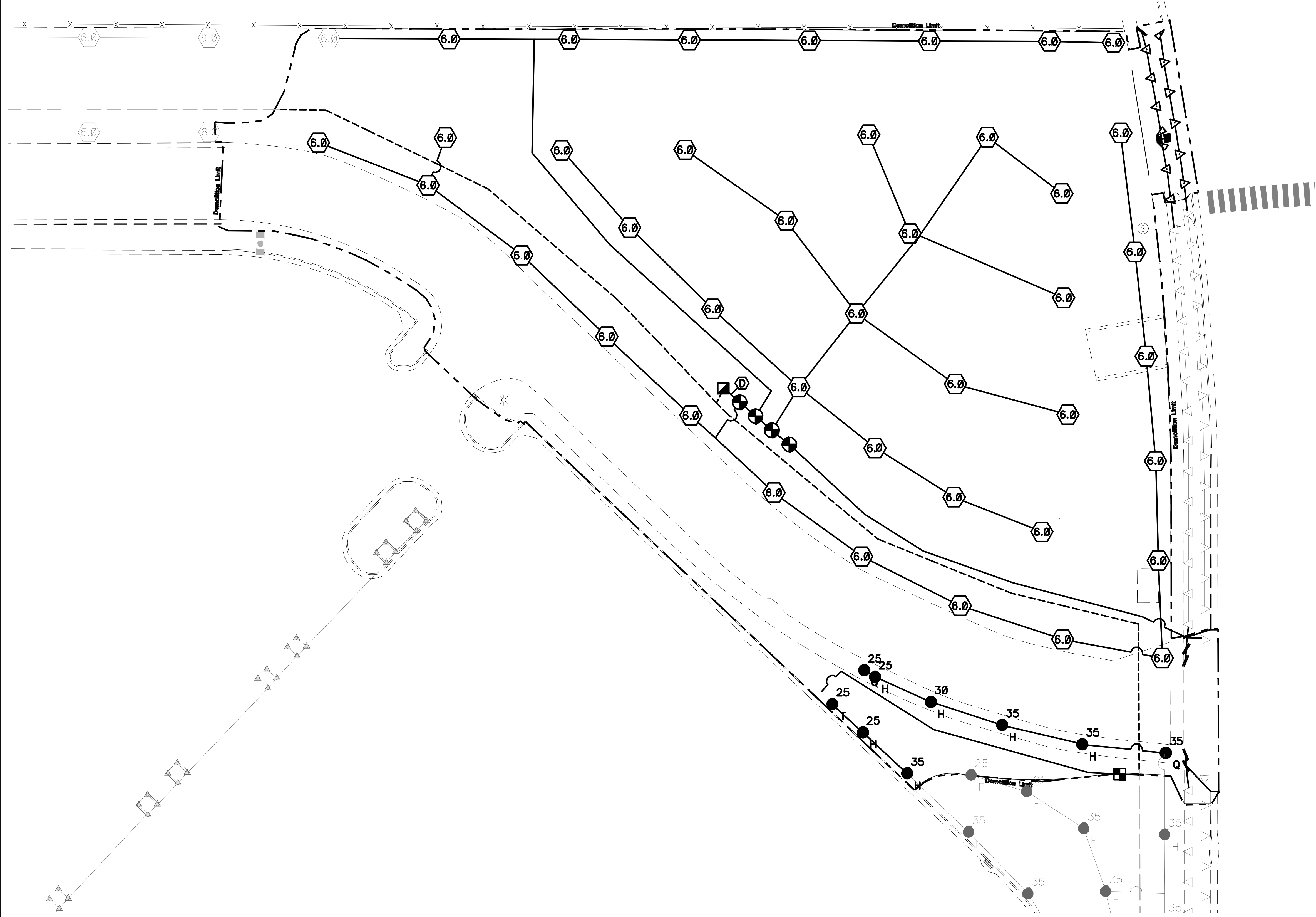


REV	DATE	DESCRIPTION

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 01/18/2024
 LANDSCAPE ARCHITECT

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Landscape Plan - South
Mountain Ridge High School Access Roads
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 A part of Section 6, T4S, R1W, S1B&M, U.S. Survey



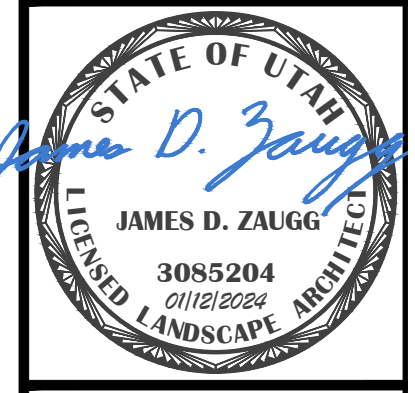
IRRIGATION DEMOLITION SCHEDULE

- Existing Irrigation Valves - Maintain and Protect
- Existing Irrigation Valves - To be Removed
- Existing Heads - Maintain and Protect
- Demo Existing Head
- Existing 6" Mainline to Remain - Field Verify Location
- Existing 6" Mainline - To be Removed
- Existing Lateral Line - Maintain and Protect
- Existing Lateral Line - To be Removed

IRRIGATION DEMOLITION NOTES

1. This project requires the remodel of an existing irrigation system. Protect and maintain portions of the existing system to remain.
2. The existing mainline along with existing irrigation system shall be maintained and operational as much as possible throughout construction.
3. Hand water any plant material if irrigation is interrupted for more than three days. Hand water every other day throughout the interrupted period.
4. Field verify the locations and sizes of the expected tie-ins for main lines and lateral lines.
5. Maintain and protect the existing controller and existing control wires.

NO.	DESCRIPTION	DATE	REV.

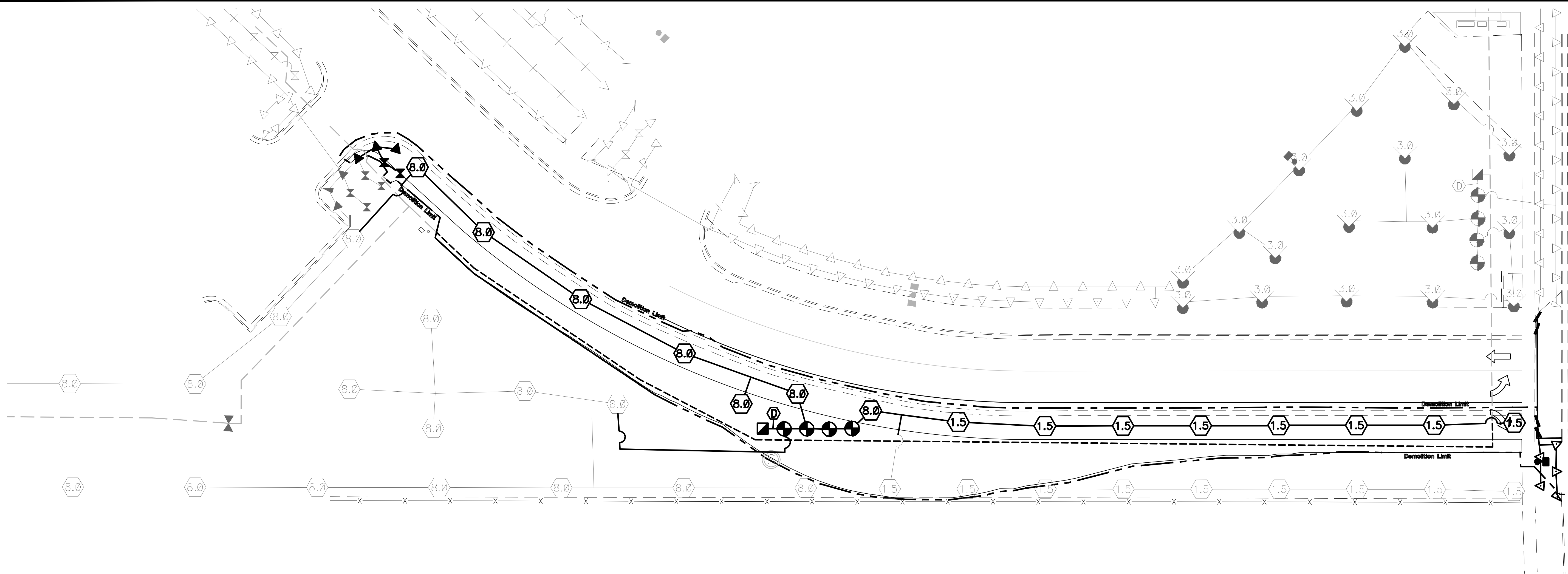


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Irrigation Demolition Plan - North (Alternate #1)
Mountain Ridge High School Access Roads
 14202 S Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
 A part of Section 6, T4S, R1W, SLB&M, U.S. Survey

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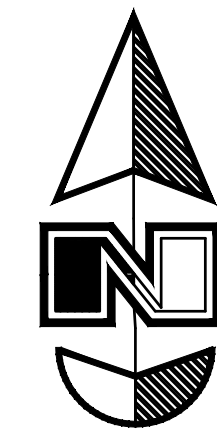


IRRIGATION DEMOLITION SCHEDULE

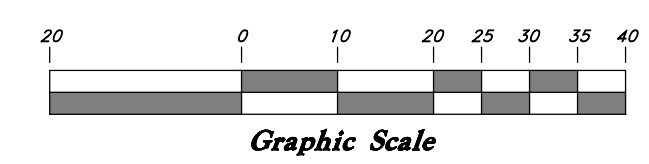
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- Existing Heads - Maintain and Protect
- Demo Existing Head
- Existing 6" Mainline to Remain - Field Verify Location
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- Existing Lateral Line - To be Removed

IRRIGATION DEMOLITION NOTES

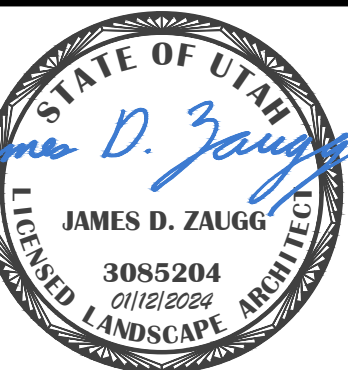
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Scale: 1" = 20'



REV	DATE	DESCRIPTION



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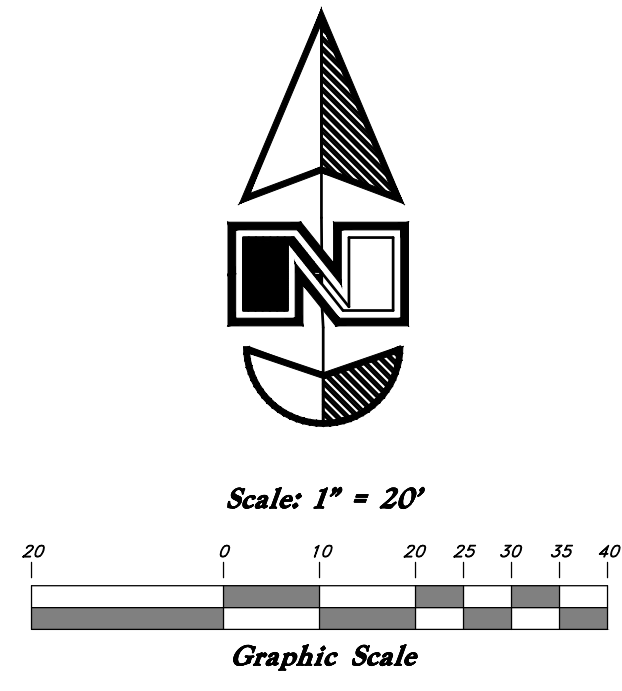
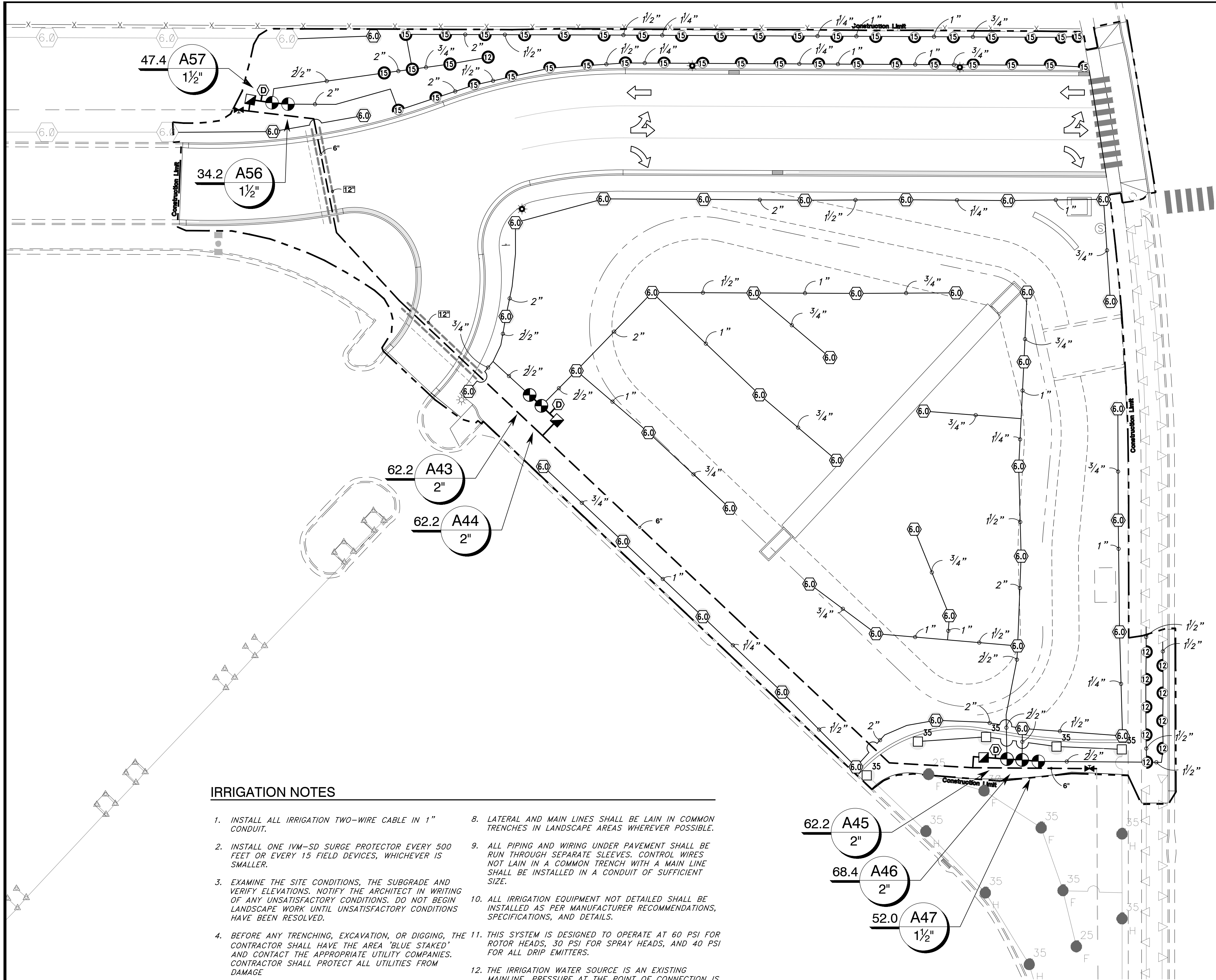
Irrigation Demolition Plan - South
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 Herriman City, Salt Lake County, Utah
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12 Jan, 2024

SHEET NO.

ID.2

23N216



IRRIGATION SCHEDULE NORTH

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
12 12 12 12	Rain Bird 1806-SAM-PRS 12 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal, 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.	30		
15 15 15 15	Rain Bird 1806-SAM-PRS 15 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal, 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve, and Pressure Regulating.	30		
35	Rain Bird 5006-PL-PC-SAM-MPR 35 Turf Rotor, 6in. Pop-Up, Plastic Riser, with Flow Shut-Off Device, Matched Precipitation Rotor (MPR Nozzle), Arc and Radius as per Symbol. 25 H=red, 30 H=green, 35H=beige. With Seal-A-Matic Check Valve.	55		35'
6.0	Rain Bird 5006-PL-PC-SAM-R-SS 6.0 Turf Rotor, 6in. Pop-Up with Stainless Steel Riser. Adjustable to Full Circle. Standard Angle Nozzle, In-Stem Pressure Regulator, and Flow Shut-Off Device. With Seal-A-Matic Check Valve.	65	6.22	44'
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION			
⊙	Rain Bird PEB-PRS-D And Weathertrak H2O Decoder 1in., 1-1/2in., 2in. Plastic Industrial Valves. Globe Configuration. With Pressure Regulator Module. With Single Station Decoder			
■	Rain Bird 44-LRC 1in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Locking Thermoplastic Rubber Cover, and 2-Piece Body.			
⊗	Matco Norca Resilient Wedge Gate Valve 2in. to 12in. ductile iron gate valve, same size as mainline pipe where located. Resilient wedge non-rising stem, flanged, with operating nut. (Expected to be 6", Filed Verify Mainline Size)			
⊕	Drain Valve Manual Drain Valve			
—	Irrigation Lateral Line: 2			
---	Irrigation Mainline: PVC Class 200 SDR 21			
---	Pipe Sleeve: PVC Class 200 SDR 21 Sleeves to be Twice the Size of Through Pipes. At Mainlines, Run Separate Sleeve for Control Wires.			
⊕	Valve Callout			
⊕	Valve Number			
⊕	Valve Flow			
⊕	Valve Size			

IRRIGATION NOTES

- INSTALL ALL IRRIGATION TWO-WIRE CABLE IN 1" CONDUIT.
- INSTALL ONE IVM-SD SURGE PROTECTOR EVERY 500 FEET OR EVERY 15 FIELD DEVICES, WHICHEVER IS SMALLER.
- 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.
- 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
- 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.
- ALL LINES SHALL SLOPE TO DRAIN, ADD MANUAL DRAINS AT ALL MAINLINE LOW POINTS AS NECESSARY FOR COMPLETE DRAINAGE OF THE ENTIRE SYSTEM. INDICATE ALL DRAIN LOCATIONS ON RECORD DRAWINGS.
- 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.
- LATERAL AND MAIN LINES SHALL BE LAID IN COMMON TRENCHES IN LANDSCAPE AREAS WHEREVER POSSIBLE.
- ALL PIPING AND WIRING UNDER PAVEMENT SHALL BE RUN THROUGH SEPARATE SLEEVES. CONTROL WIRES NOT LAID IN A COMMON TRENCH WITH A MAIN LINE SHALL BE INSTALLED IN A CONDUIT OF SUFFICIENT SIZE.
- ALL IRRIGATION EQUIPMENT NOT DETAILED SHALL BE INSTALLED AS PER MANUFACTURER RECOMMENDATIONS, SPECIFICATIONS, AND DETAILS.
- THIS SYSTEM IS DESIGNED TO OPERATE AT 60 PSI FOR ROTOR HEADS, 30 PSI FOR SPRAY HEADS, AND 40 PSI FOR ALL DRIP EMITTERS.
- THE IRRIGATION WATER SOURCE IS AN EXISTING MAINLINE. PRESSURE AT THE POINT OF CONNECTION IS EXPECTED TO BE 60 PSI MIN. IF ACTUAL PRESSURE VARIES FROM THE EXPECTED, CONTACT LANDSCAPE ARCHITECT.
- SUPPLY PRODUCTS AS SPECIFIED. NO SUBSTITUTIONS WILL BE ALLOWED UNLESS PRE-APPROVED IN WRITING BY THE OWNER OR LANDSCAPE ARCHITECT.
- CONTRACTOR TO SUPPLY ALL KEYS AND ATTIC STOCK PER THE SPECIFICATIONS.
- CONTRACTOR TO SHUT DOWN AND WINTERIZE THE IRRIGATION SYSTEM AT THE END OF THE FIRST SEASON AND TURN ON THE SYSTEM AT THE BEGINNING OF THE FOLLOWING SEASON. THIS WORK IS TO BE DONE IN THE PRESENCE OF THE OWNERS' MAINTENANCE PERSONNEL
- REPROGRAM THE EXISTING WEATHERTRAK CONTROLLER FOR THE NEW AND MODIFIED VALVES. PROGRAM OR HAVE THE CONTROLLER LEARN NEW FLOW RATES. SCHEDULE FOR ESTABLISHMENT OF NEW SEED AND A LONG TERM SCHEDULE AFTER ESTABLISHMENT.

IRRIGATION REMODEL NOTES

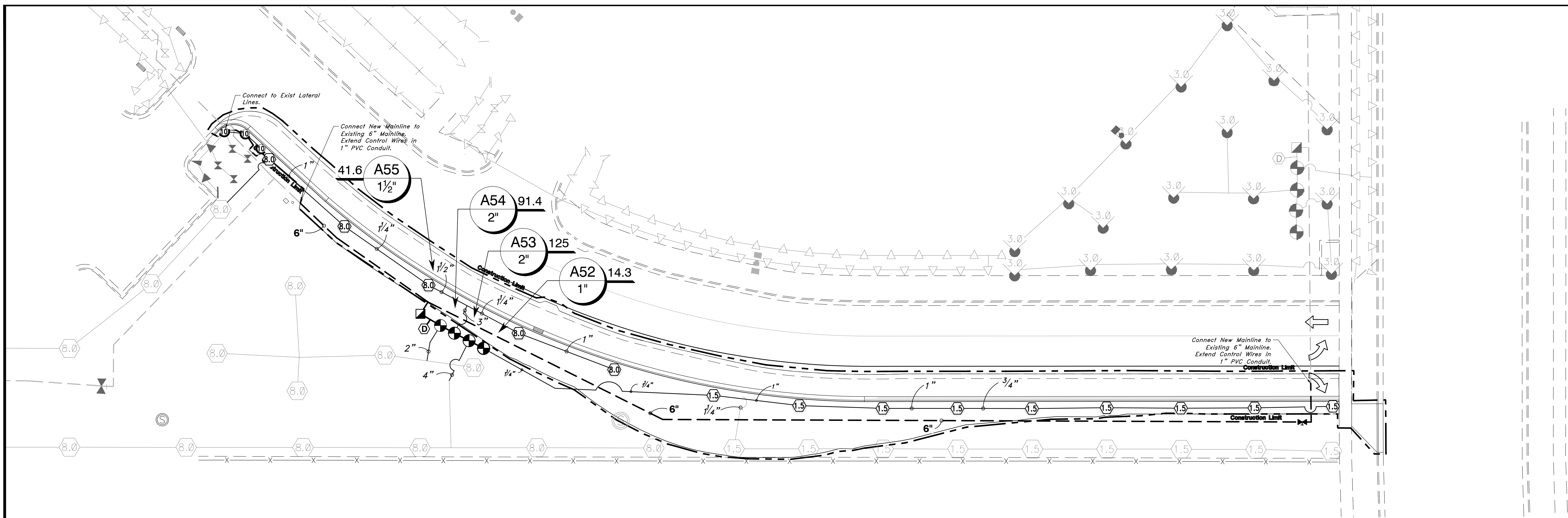
- THIS PROJECT REQUIRES THE REMODEL OF AN EXISTING IRRIGATION SYSTEM. PROTECT AND MAINTAIN PORTIONS OF THE EXISTING SYSTEM TO REMAIN.
- COORDINATE WITH OWNER FOR ANY DISRUPTIONS OF SERVICE. CONTRACTOR IS RESPONSIBLE FOR HAND WATERING VEGETATION THAT LACKS WATER DUE TO DISRUPTION OF SERVICE. ANY PLANTS LOST DUE TO LACK OF WATER DUE TO CONTRACTOR NEGLIGENCE WILL BE REPLACED AT NOT COST TO THE OWNER.
- FIELD VERIFY THE LOCATIONS AND SIZES OF THE EXPECTED TIE-INS FOR MAIN LINES AND LATERAL LINES.
- 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.

STATE OF UTAH
 JAMES D. ZAUGG
 3085204
 011818064
 LANDSCAPE ARCHITECT

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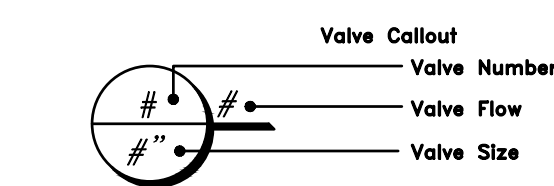
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IRRIGATION SCHEDULE SOUTH

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI	GPM	RADIUS
	Rain Bird 1806-SAM-PRS 10 Series MPR Turf Spray 6.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal, 1/2in. NPT Female Threaded Inlet, With Seal-A-Matic Check Valve, and Pressure Regulating.	30		
	Rain Bird 5006-PL-PC-SAM-R-SS 1.5 Turf Rotor, 6in. Pop-Up with Stainless Steel Riser, Adjustable to Full Circle, Standard Angle Nozzle, In-Stem Pressure Regulator, and Flow Shut-Off Device. With Seal-A-Matic Check Valve.	65	1.59	35'
	Rain Bird 5006-PL-PC-SAM-R-SS 8.0 Turf Rotor, 6in. Pop-Up with Stainless Steel Riser, Adjustable to Full Circle, Standard Angle Nozzle, In-Stem Pressure Regulator, and Flow Shut-Off Device. With Seal-A-Matic Check Valve.	65	8.31	44'
	Rain Bird PEB-PRS-D And Weathertrak H2O Decoder 1in., 1-1/2in., 2in. Plastic Industrial Valves, Globe Configuration. With Pressure Regulator Module. With Single Station Decoder			
	Rain Bird 44-LRC 1in. Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Locking Thermoplastic Rubber Cover, and 2-Place Body.			
	Matco Narca Resilient Wedge Gate Valve 2in. to 12in. ductile iron gate valve, same size as mainline pipe where located. Resilient wedge non-rising stem, flanged, with operating nut. (Expected to be 6", Filed Verify Mainline Size)			
	Drain Valve Manual Drain Valve			
	Irrigation Lateral Line: 2			
	Irrigation Mainline: PVC Class 200 SDR 21			

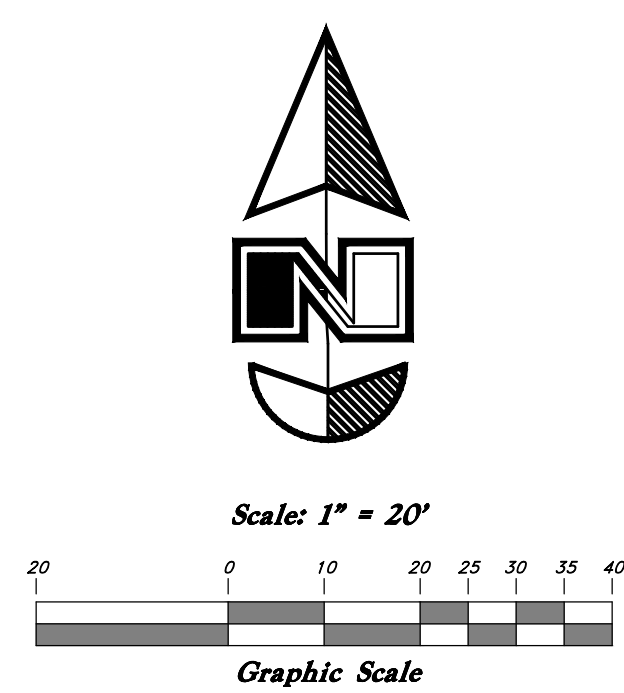


IRRIGATION REMODEL NOTES

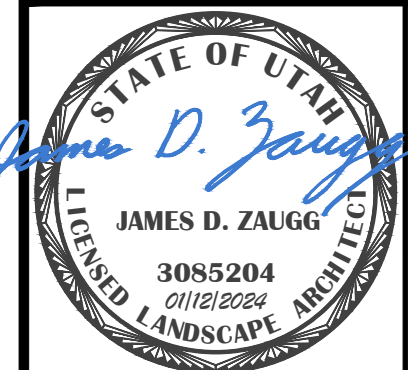
- THIS PROJECT REQUIRES THE REMODEL OF AN EXISTING IRRIGATION SYSTEM. PROTECT AND MAINTAIN PORTIONS OF THE EXISTING SYSTEM TO REMAIN.
- COORDINATE WITH OWNER FOR ANY DISRUPTIONS OF SERVICE. CONTRACTOR IS RESPONSIBLE FOR HAND WATERING VEGETATION THAT LACKS WATER DUE TO DISRUPTION OF SERVICE. ANY PLANTS LOST DUE TO LACK OF WATER DUE TO CONTRACTOR NEGLIGENCE WILL BE REPLACED AT NOT COST TO THE OWNER.
- FIELD VERIFY THE LOCATIONS AND SIZES OF THE EXPECTED TIE-INS FOR MAIN LINES AND LATERAL LINES.
- 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

- INSTALL ALL IRRIGATION TWO-WIRE CABLE IN 1" CONDUIT.
- INSTALL ONE IVM-SD SURGE PROTECTOR EVERY 500 FEET OR EVERY 15 FIELD DEVICES, WHICHEVER IS SMALLER.
- 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.
- 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
- 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.
- ALL LINES SHALL SLOPE TO DRAIN, ADD MANUAL DRAINS AT ALL MAINLINE LOW POINTS AS NECESSARY FOR COMPLETE DRAINAGE OF THE ENTIRE SYSTEM. INDICATE ALL DRAIN LOCATIONS ON RECORD DRAWINGS.
- 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.
- LATERAL AND MAIN LINES SHALL BE LAIN IN COMMON TRENCHES IN LANDSCAPE AREAS WHEREVER POSSIBLE.
- ALL PIPING AND WIRING UNDER PAVEMENT SHALL BE RUN THROUGH SEPARATE SLEEVES. CONTROL WIRES NOT LAIN IN A COMMON TRENCH WITH A MAIN LINE SHALL BE INSTALLED IN A CONDUIT OF SUFFICIENT SIZE.
- ALL IRRIGATION EQUIPMENT NOT DETAILED SHALL BE INSTALLED AS PER MANUFACTURER RECOMMENDATIONS, SPECIFICATIONS, AND DETAILS.
- THIS SYSTEM IS DESIGNED TO OPERATE AT 60 PSI FOR ROTOR HEADS, 30 PSI FOR SPRAY HEADS, AND 40 PSI FOR ALL DRIP EMITTERS.
- THE IRRIGATION WATER SOURCE IS AN EXISTING MAINLINE. PRESSURE AT THE POINT OF CONNECTION IS EXPECTED TO BE 60 PSI MIN. IF ACTUAL PRESSURE VARIES FROM THE EXPECTED, CONTACT LANDSCAPE ARCHITECT.
- SUPPLY PRODUCTS AS SPECIFIED. NO SUBSTITUTIONS WILL BE ALLOWED UNLESS PRE-APPROVED IN WRITING BY THE OWNER OR LANDSCAPE ARCHITECT.
- CONTRACTOR TO SHUT DOWN AND WINTERIZE THE IRRIGATION SYSTEM AT THE END OF THE FIRST SEASON AND TURN ON THE SYSTEM AT THE BEGINNING OF THE FOLLOWING SEASON. THIS WORK IS TO BE DONE IN THE PRESENCE OF THE OWNERS' MAINTENANCE PERSONNEL
- REPROGRAM THE EXISTING WEATHERTRAK CONTROLLER FOR THE NEW AND MODIFIED VALVES. PROGRAM OR HAVE THE CONTROLLER LEARN NEW FLOW RATES. SCHEDULE FOR ESTABLISHMENT OF NEW SEED AND A LONG TERM SCHEDULE AFTER ESTABLISHMENT.



REV	DATE	DESCRIPTION



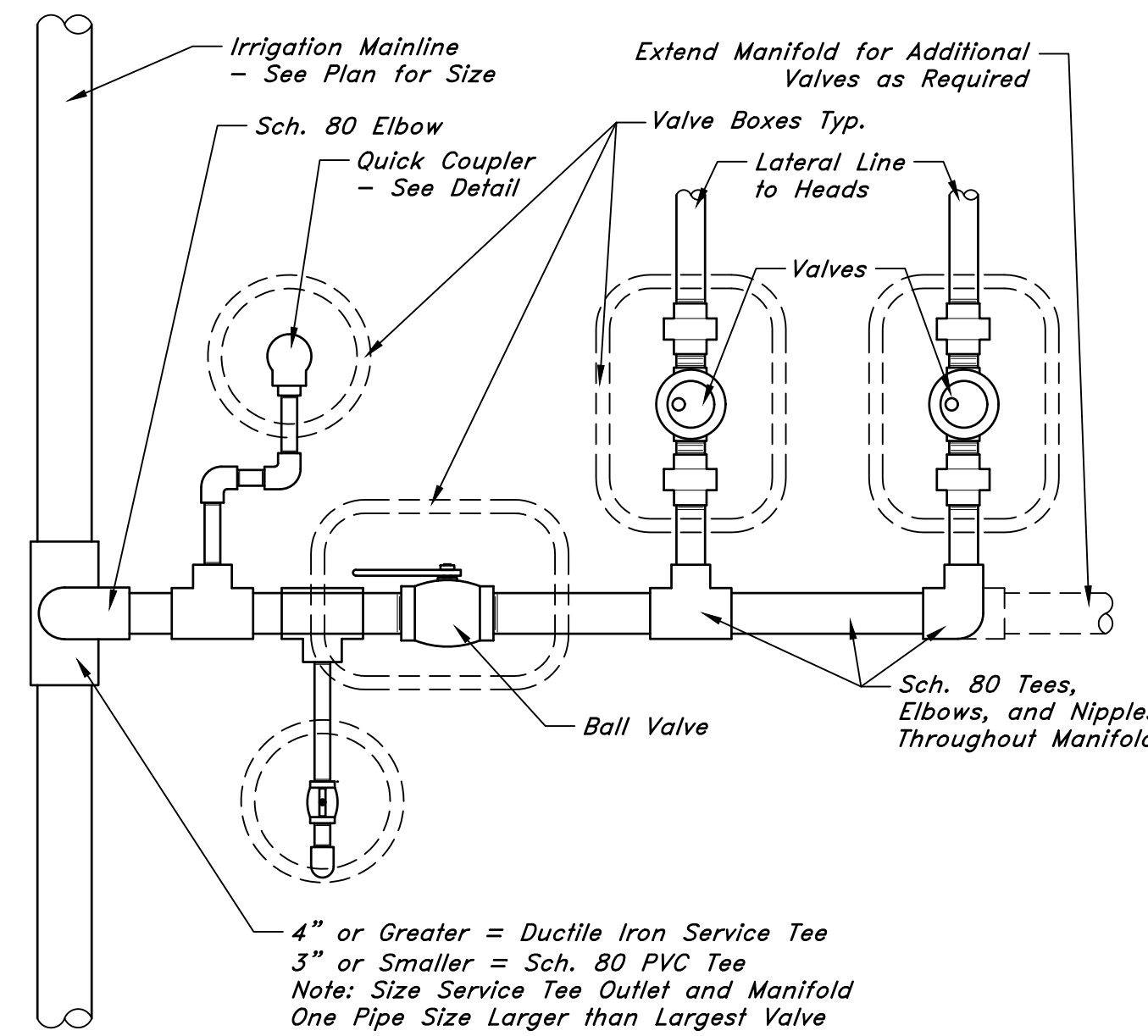
GREAT BASIN ENGINEERING

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

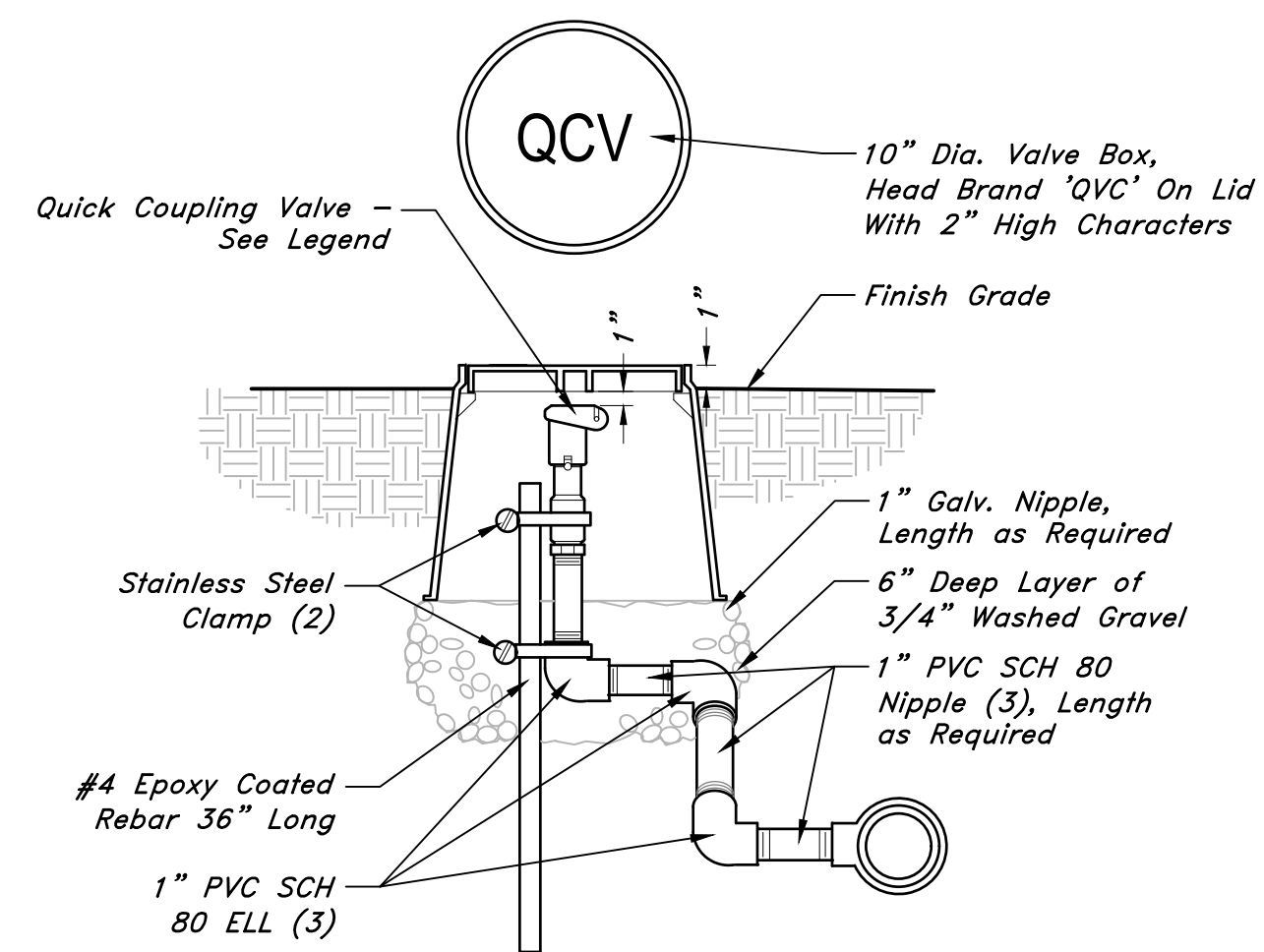
Irrigation Plan - South

Mountain Ridge High School Access Roads

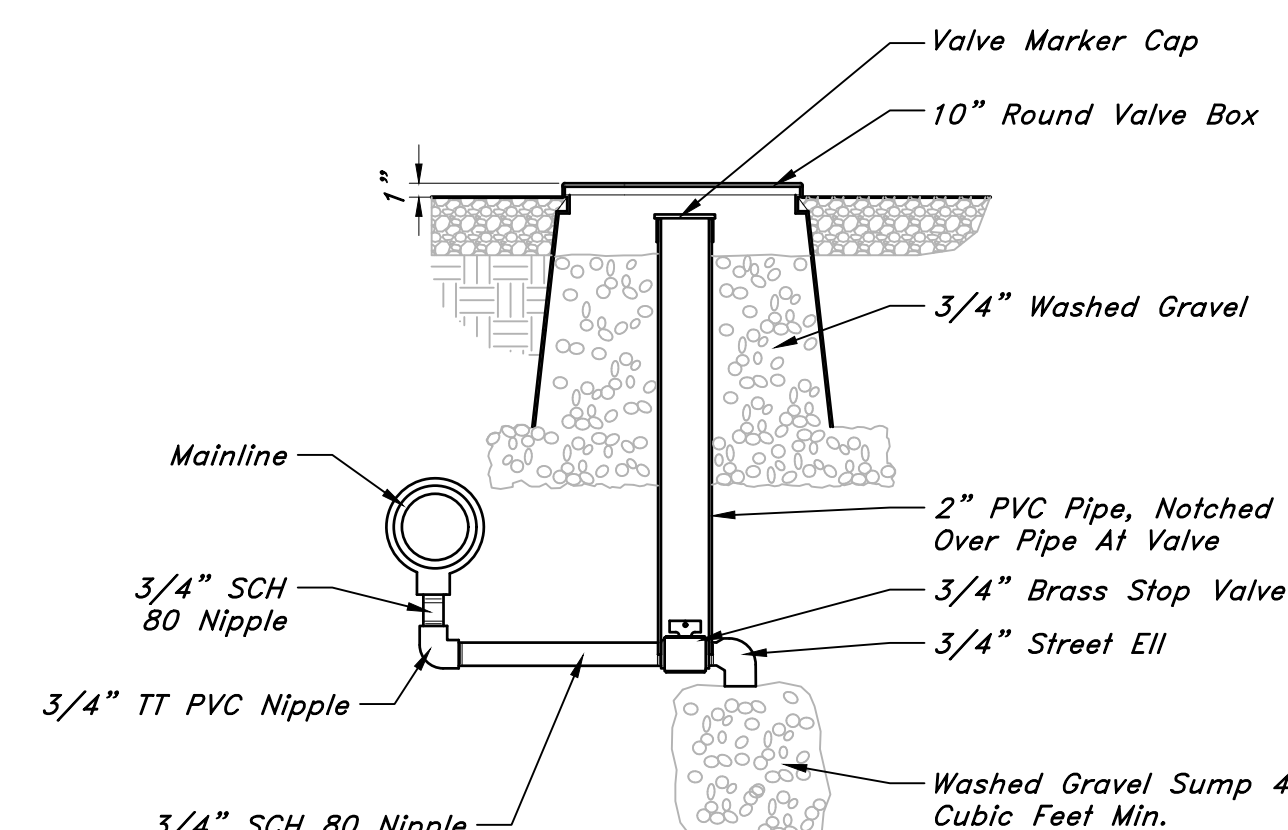
14202 S Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
 A part of Section 6, T4S, R1W, S18&M, U.S. Survey



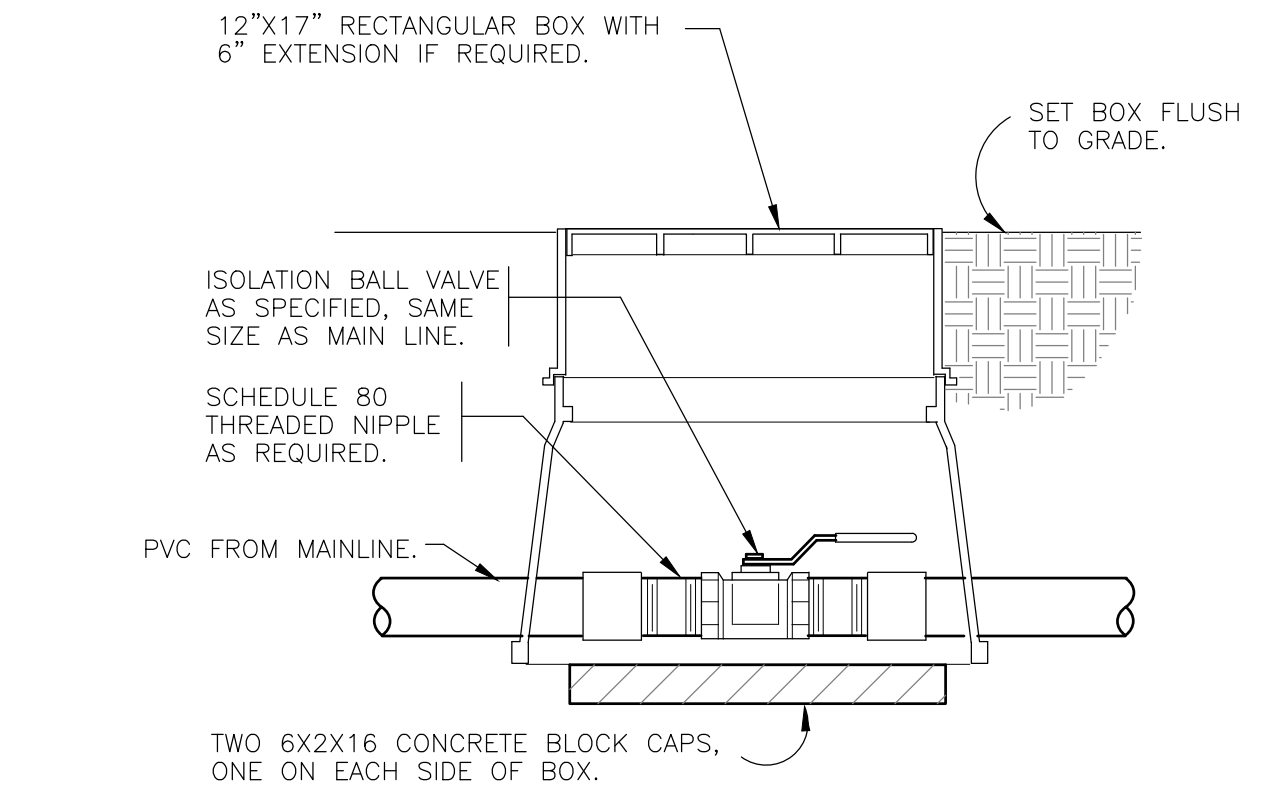
8 VALVE MANIFOLD
1" = 1'-0"
DETAIL-FILE



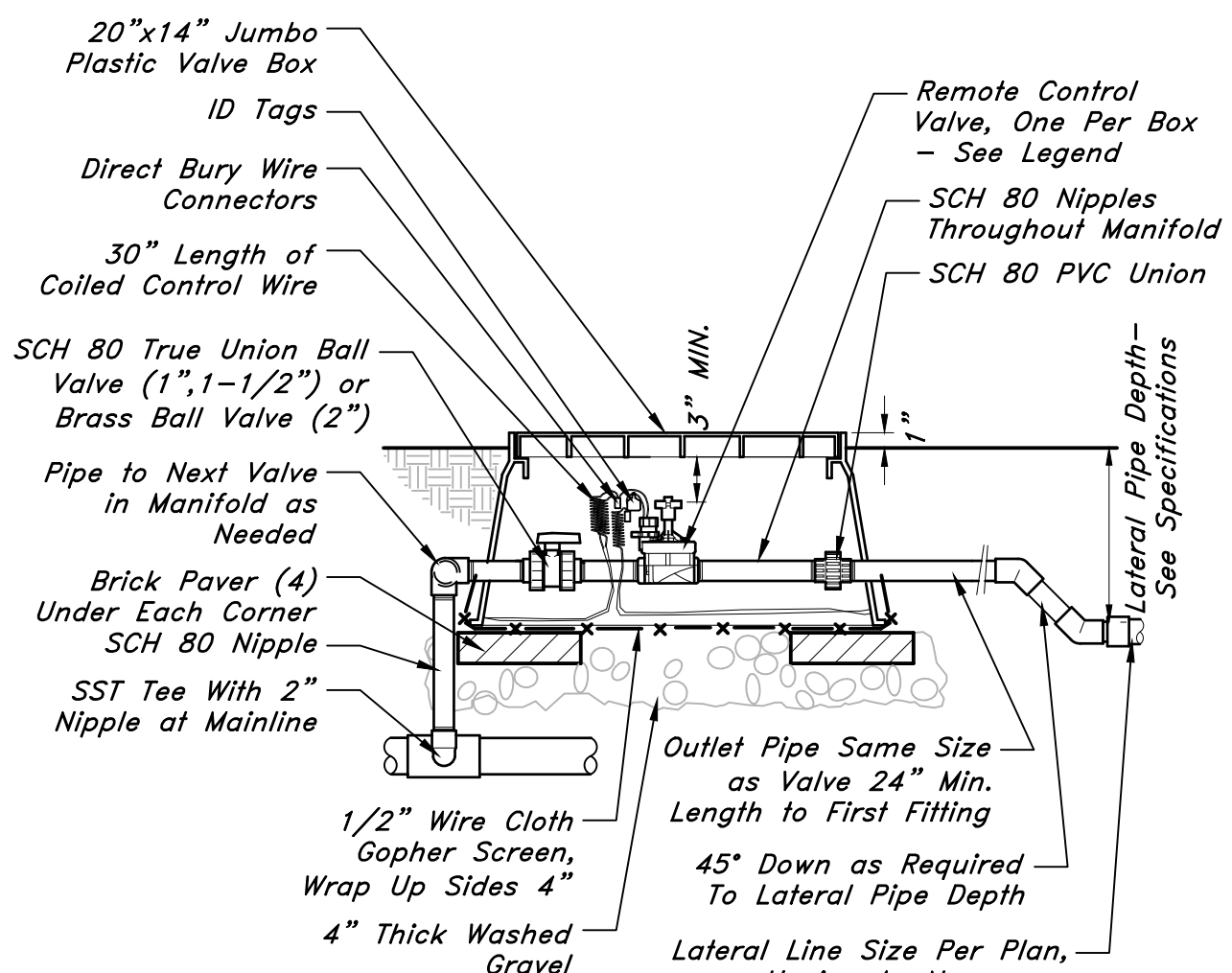
7 QUICK COUPLER
1 1/2" = 1'-0"
328406.43-06



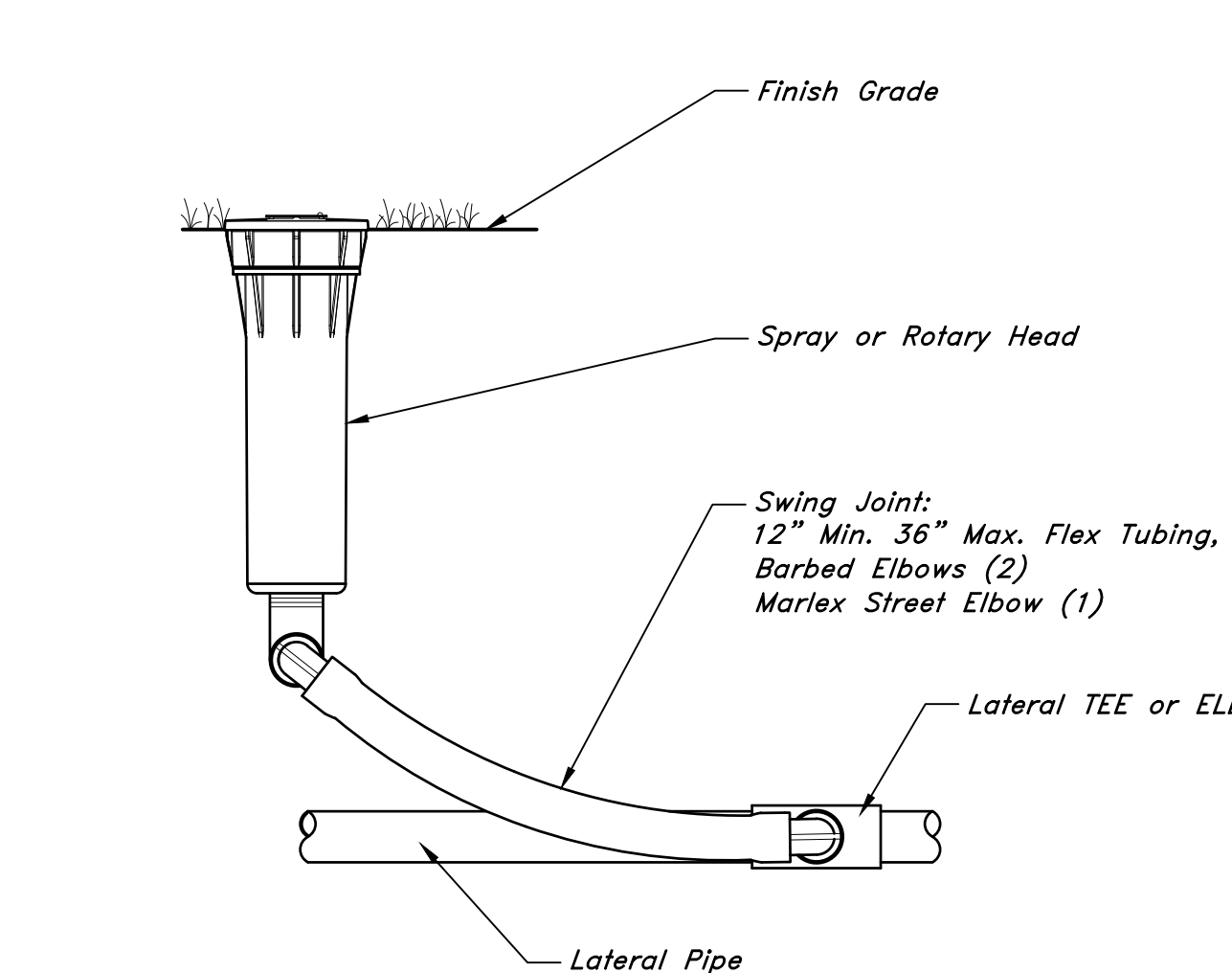
6 MANUAL DRAIN
1 1/2" = 1'-0"
328409.86-01



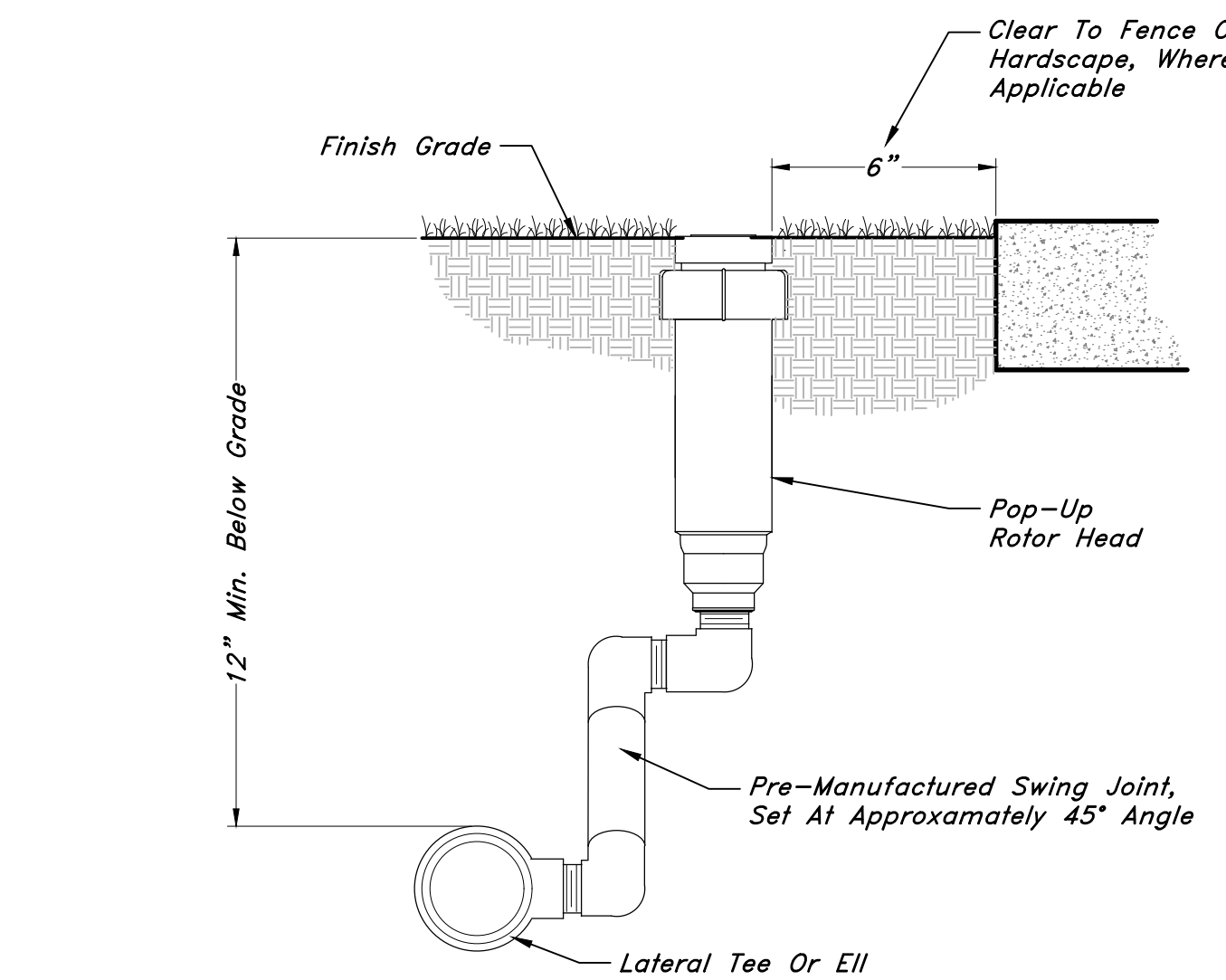
9 BRASS BALL ISOLATION VALVE AT MANIFOLD
1 1/2" = 1'-0"
FX-IR-FX-ISOV-03



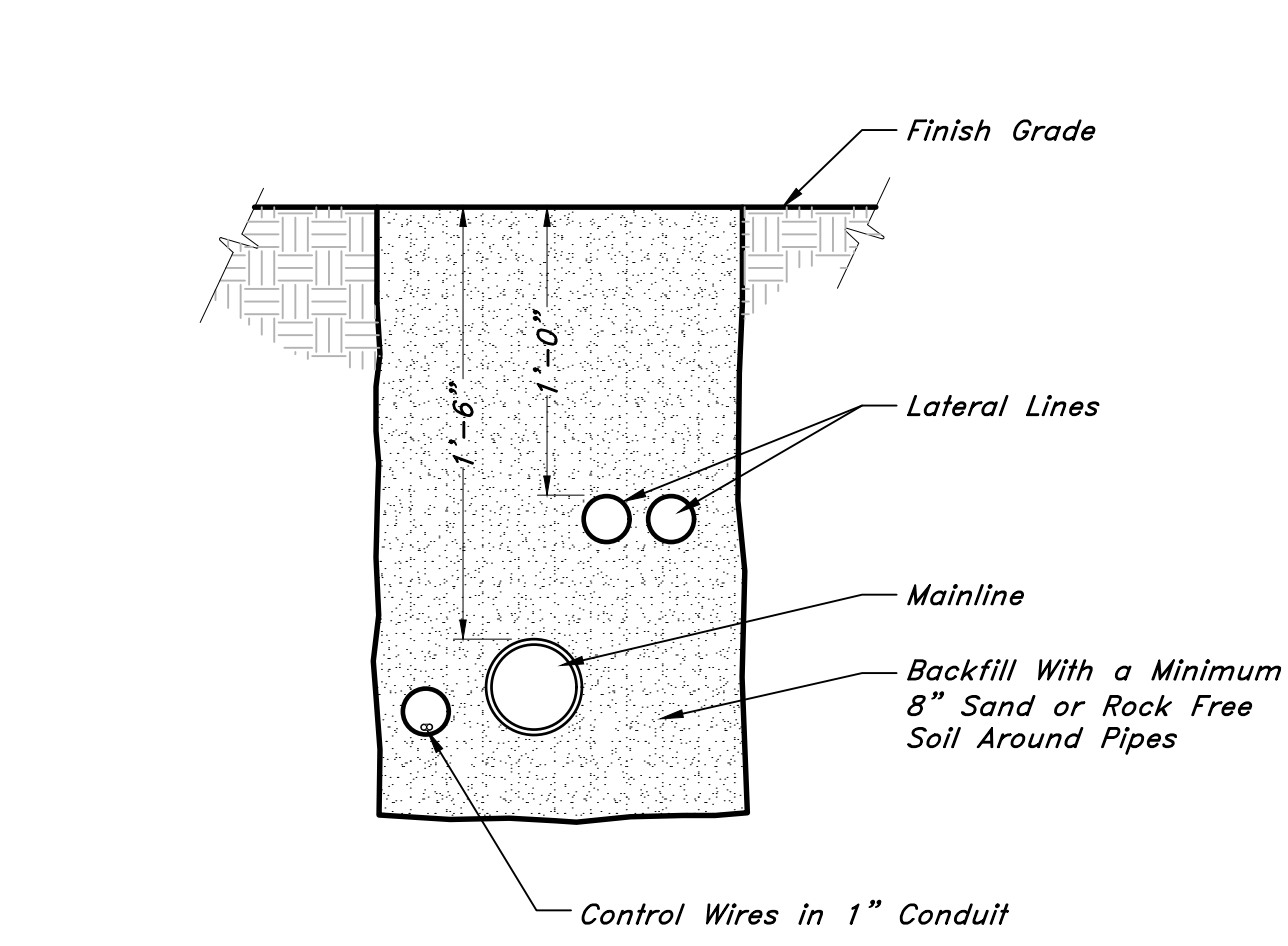
5 REMOTE CONTROL VALVE
1" = 1'-0"
328406.13-08



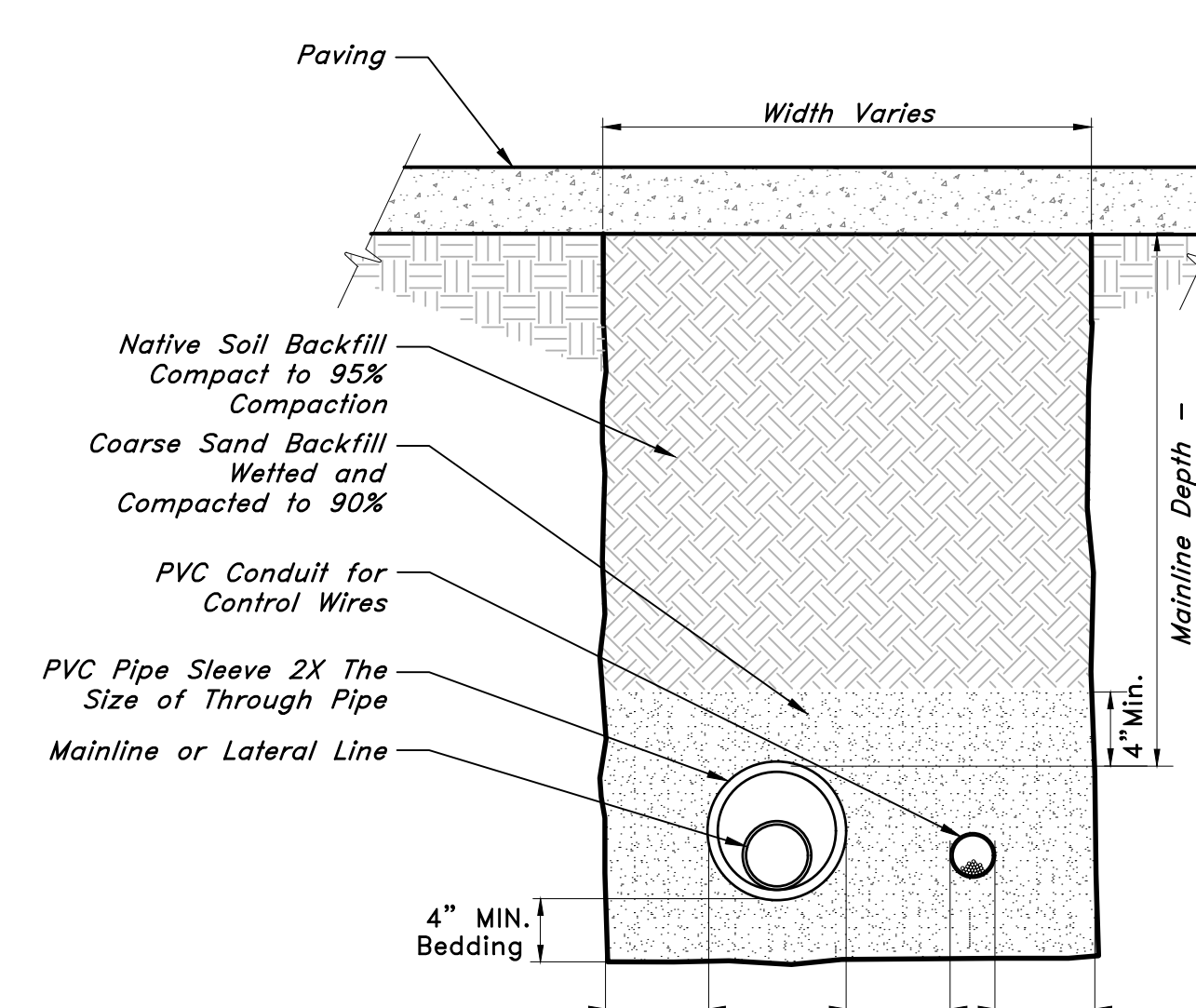
4 POP-UP SPRAY HEAD
NTS
328403.01-02



3 POP-UP ROTOR HEAD
NTS
328403.01-01



2 TRENCHING
1 1/2" = 1'-0"
328401-02



1 SLEEVING
1 1/2" = 1'-0"
328401-01

STATE OF UTAH
JAMES D. ZAUGG
3085204
011818024
LANDSCAPE ARCHITECT

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

Irrigation Details
Mountain Ridge High School Access Roads
14202 S Sentinel Ridge Boulevard
Herriman City, Salt Lake County, Utah
A part of Section 6, T4S, R1W, S18&M, U.S. Survey

UTILITY CONDUIT SCHEDULE

EUGP	EUGP	EXISTING UNDERGROUND POWER
EULP	EULP	EXISTING UNDERGROUND LIGHTING POWER
NULP	NULP	NEW UNDERGROUND LIGHTING POWER
NUGP	NUGP	NEW UNDERGROUND POWER

GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 26510 (16510) OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY OWNER.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CONTRACTOR SHALL VERIFY FURNITURE LAYOUT PRIOR TO ANY FLOORBOX OR POKE-THRU INSTALLATION. COORDINATE EXACT LOCATION OF FLOOR BOX OR POKE-THRU WITH OWNER AND FURNITURE PROVIDER PRIOR TO ROUGH-IN.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

MAXIMUM LENGTH CONDUCTOR LENGTH (FT)	BRANCH CIRCUIT VOLTAGE	
	120 VOLT	277 VOLT
<70	MIN. #12 AWG	MIN. #12 AWG
70 - 115	MIN. #10 AWG	MIN. #10 AWG
115 - 170	MIN. #8 AWG	MIN. #10 AWG
170 - 270	MIN. #6 AWG	MIN. #8 AWG
271 - 380	NOTE B	MIN. #8 AWG
>380	NOTE B	NOTE B

- THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
- PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
- CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY, CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.

DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26 (16).
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

SHEET INDEX

E0.1	ELECTRICAL SYMBOLS AND NOTES
E0.2	ELECTRICAL SCHEDULE
E0.3	ELECTRICAL SPECIFICATIONS
ED1.1	ELECTRICAL SITE DEMOLITION PLAN - NORTH
ED1.2	ELECTRICAL SITE DEMOLITION PLAN - SOUTH
E1.1	ELECTRICAL SITE PLAN - NORTH

SYMBOL LEGEND

- NOTES:
- SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
 - HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.
 - REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
 - SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.
 - NEMA TYPE 'ND' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.
 - HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.
 - PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
 - DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT.
 - DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
 - SUBSCRIPT INDICATES NEMA CONFIGURATION.
 - SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.
 - COORDINATE WITH DOOR HARDWARE SUPPLIER.
 - FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.
 - ARROWS SHOWN ON DEVICE INDICATE SENSOR AIMING DIRECTION.
 - CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.
 - MOUNT ON TRACK OF OVERHEAD DOOR, 8" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.
 - INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
 - SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION.
 - MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.

*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

GENERAL				GENERAL			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
—	ONE CIRCUIT, HOME RUN TO PANEL			□	ELECTRICAL EQUIPMENT SEE DRAWINGS	+72"	6.
—	CONDUIT RUN CONCEALED IN WALL OR CEILING						
—	CONDUIT RUN CONCEALED IN FLOOR OR GROUND			—	GROUND BUS BAR	+18"	6.
—	CONDUIT UP			X	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
—	CONDUIT DOWN			X	EQUIPMENT NUMBER		
—	CONDUIT STUB LOCATION	CAP CONDUIT		X	ARCHITECTURAL ROOM NUMBER		
—	CONDUIT / CIRCUIT CONTINUATION						

LIGHTING

○	CEILING LIGHT FIXTURE	CEILING	1.	PP	POWER PACK	ABOVE CEILING	SEE DIAGRAM, SPEC.
○	WALL LIGHT FIXTURE	AS NOTED	1.	RC _x	DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE CEILING	SEE DIAGRAM, SPEC.
□	RECESSED DOWNLIGHT FIXTURE	CEILING	1.	EP	EMERGENCY LIGHTING CONTROL UNIT	ABOVE CEILING	SEE DIAGRAM, SPEC.
□	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.	S ³	THREE-WAY SWITCH	+46"	2, 4.
□	LIGHT FIXTURE	AS NOTED	1.	S ⁴	FOUR-WAY SWITCH	+46"	2, 4.
□	EGRESS LIGHT FIXTURE	AS NOTED	1.	S ^K	KEY OPERATED SWITCH	+46"	2, 4.
■	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	1. SEE DIAGRAM	S ^P	SWITCH WITH PILOT LIGHT	+46"	2, 4.

POWER

IG	ISOLATED GROUND RECEPTACLE	+18" OR AS NOTED	2, 9.	Q	PLUGMOLD	+46" OR AS NOTED	2. SEE SPEC.
IT	TAMPER-PROOF RECEPTACLE	+18" OR AS NOTED	2, 9.	DP	FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED	SEE DIAGRAM, SPEC. 28-726
U	DUPLEX RECEPTACLE WITH USB OUTLET	+18" OR AS NOTED	2, 9.	CP	CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING	SEE DIAGRAM, SPEC.
U	CONTROLLED DUPLEX RECEPTACLE	+18" OR AS NOTED	2, 9.	CO	CLOCK OUTLET	+90"	2.
U	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2, 9, 11.	CB	DOORBELL CHIME	+90"	2.
U	CONTROLLED FOURPLEX RECEPTACLE	+18" OR AS NOTED	2, 9.	FB	FLOOR BOX - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
U	TVSS PROTECTED RECEPTACLE	+18" OR AS NOTED	2, 9.	PT	POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.
U	SPECIAL PURPOSE OUTLET	+18" OR AS NOTED	2, 10. W/CAP.	■	PANEL BOARD	+72"	6.
U	CORD DROP		SEE DIAGRAM				

COLOR LEGEND

■	LIGHTING FIXTURES	■	POWER DEVICES	■	AUDIOVISUAL
■	LIGHTING DEVICES	■	TELECOMMUNICATIONS	■	SECURITY
■	POWER EQUIPMENT	■	FIRE ALARM	■	NURSECALL
■	CABLE TRAY	■	CONDUIT		



4225 Lake Park Blvd, Suite 275
West Valley City, UT 84120

P: 801.532.2196
F: 801.532.2305

www.bnacconsulting.com

ELECTRICAL SYMBOLS AND NOTES

Mountain Ridge High School Access Roads

14202 S Sentinel Ridge Boulevard
Herriman City, Salt Lake County, Utah
A part of Section 6, T4S, R1W, SLB&M, U.S. Survey

12 JAN, 2024

SHEET NO.

E0.1

23N216

DATE
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GREAT BASIN ENGINEERING
5746 South 1475 East Odean, Utah 84403
MAIN (801) 594-4515 S.L.C (801) 521-0222 FAX
(801) 392-7544 WWW.GREATBASINENGINEERING.COM

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE ABBREVIATION SCHEDULE		PROJECT MANAGER: DRAYTON BAILEY	
A.F.F.	ABOVE FINISH FLOOR	SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT
WALL@CLG	WALL MOUNT AT CORNER OF WALL AND CEILING	CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT

LIGHT FIXTURE GENERAL NOTES	
1.	REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES AND, CONFIRM CEILING TYPES WITH LIGHT FIXTURE TRIMS. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, LED DRIVERS, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
4.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
5.	REFER TO LIGHTING PLANS FOR ALL LINEAR FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF LINEAR FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH.
6.	REFER TO LIGHTING PLANS FOR ALL UNDERCABINET FIXTURE LENGTHS. THE CATALOG NUMBER IS BASED ON THE FIXTURE SPECIFIED AND MAY NOT REFLECT THE QUANTITY OR OVERALL LENGTH OF THE UNDERCABINET FIXTURES REQUIRED. CONTRACTOR TO NOTE THAT VARIOUS FIXTURE LENGTHS MAY BE REQUIRED TO ACHIEVE THE OVERALL RUN LENGTH OR TO FIT WITHIN THE MILLWORK. COORDINATE LIGHTING LAYOUT WITH MILLWORK SHOP DRAWINGS PRIOR TO LIGHTING SUBMITTALS.
7.	WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
8.	PRIOR APPROVALS ARE REQUIRED BEFORE BIDDING THE PROJECT AND SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE...
9.	REFER TO SPECIFICATIONS 20 0500, 26 5100 & 26 5600 (16001, 16510 & 16551).
10.	VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.

TYPE	DESCRIPTION	MFR.	CATALOG #	VOLTS	TOTAL WATTS	LAMP TYPE	DELIVERED LUMENS	COLOR TEMP	CRI
OP12	OP12 - LITHONIA MEDIUM ARCHITECTURAL AREA LED SITE LUMINAIRE; DIE-CAST & EXTRUDED ALUMINUM HOUSING; TYPE IV OPTIC; FULL CUTOFF; INTERNAL HOUSE SIDE SHIELD; IP66 RATED; DIMMING MOTION SENSOR; PROGRAMMED PER OWNERS REQUIREMENTS; 250,000 HOUR (L70); 5 YR. WARRANTY; 0-10 DIMMING; MOUNTED ON A 25' ROUND TAPERED ALUMINUM POLE w/VIBRATION DAMPENING; MAX EPA 9.4 @ 120'; LIFETIME WARRANTY ON POLE; SINGLE HEAD LUMINAIRE MOUNTING; FIXTURE AND POLE COLOR SHALL MATCH EXISTING	METALLIX, LITHONIA, VISIONAIRE, BEACON	GLEON-SA4-A-740-480-T4-QMEA-SILVER METALLIX-MS/ DIM-L40W-HSS(SEE PLANS)+RTA25DB84-SCBA-w/VIBRATION DAMPENING 13,000 LUMEN LED, 4000K CCT, 70 CRI (WATTS = 96)	96 V	50 VA	LED	13,000	4000 K	70
OP14	OP14 - LITHONIA MEDIUM ARCHITECTURAL AREA LED SITE LUMINAIRE; DIE-CAST & EXTRUDED ALUMINUM HOUSING; TYPE IV OPTIC; FULL CUTOFF; IP66 RATED; DIMMING MOTION SENSOR; PROGRAMMED PER OWNERS REQUIREMENTS; 250,000 HOUR (L70); 5 YR. WARRANTY; 0-10 DIMMING; MOUNTED ON A 25' ROUND TAPERED ALUMINUM POLE w/VIBRATION DAMPENING; MAX EPA 9.4 @ 120'; LIFETIME WARRANTY ON POLE; SINGLE HEAD LUMINAIRE MOUNTING; FIXTURE AND POLE COLOR SHALL MATCH EXISTING	METALLIX, LITHONIA, VISIONAIRE, BEACON	GLEON-SA4-A-740-480-T4-QMEA-SILVER METALLIX-MS/ DIM-L40W-HSS(SEE PLANS)+RTA25DB84-SCBA-w/VIBRATION DAMPENING 13,000 LUMEN LED, 4000K CCT, 70 CRI (WATTS = 96)	96 V	50 VA	LED	13,000	4000 K	70

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	MH	MANHOLE
AC	ALTERNATING CURRENT	MIC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	NA	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BC	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
C	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
CATB	COMMUNITY ANTENNA TELEVISION	PB	PUSHBUTTON
CATV	CABLE TELEVISION	PF	POWER FACTOR
CKT	CIRCUIT	PF	PHASE FAILURE RELAY
CLG	CEILING	PNL	PANEL
CNTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT	COMPUTER TERMINAL	(R)	RELOCATE
CT	CURRENT TRANSFORMER	RECEP	RECEPTACLE
CU	COPPER	REQ	REQUIREMENT
CW	COMPLETE WITH	RLA	RATED LOAD AMPS
DB	DECIBEL	RMP	ROCKY MOUNTAIN POWER
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING TO REMAIN (UNLESS OTHERWISE NOTED)	SPEC	SPECIFICATIONS
EC	EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	TTB	TELEPHONE TERMINAL BOARD
FT	FOOT	TTC	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UPS	UNINTERRUPTED POWER SUPPLY
HZ	HERTZ	V	VOLT (KV-KILOVOLT)
IFC	INTERNATIONAL FIRE CODE	VAR	VOLT-AMPS/REACTIVE
IG	ISOLATED GROUND	VM	VOLT METER
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
IN	INCH	W	WITH
J-BOX	JUNCTION BOX	WH	WATTHOUR METER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT AMPERES	WP	WEATHERPROOF
KVAR	KILOVARS	XFMR	TRANSFORMER
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTG	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MB	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	Ø	PHASE
MCM	1000 CIRCULAR MILLS		

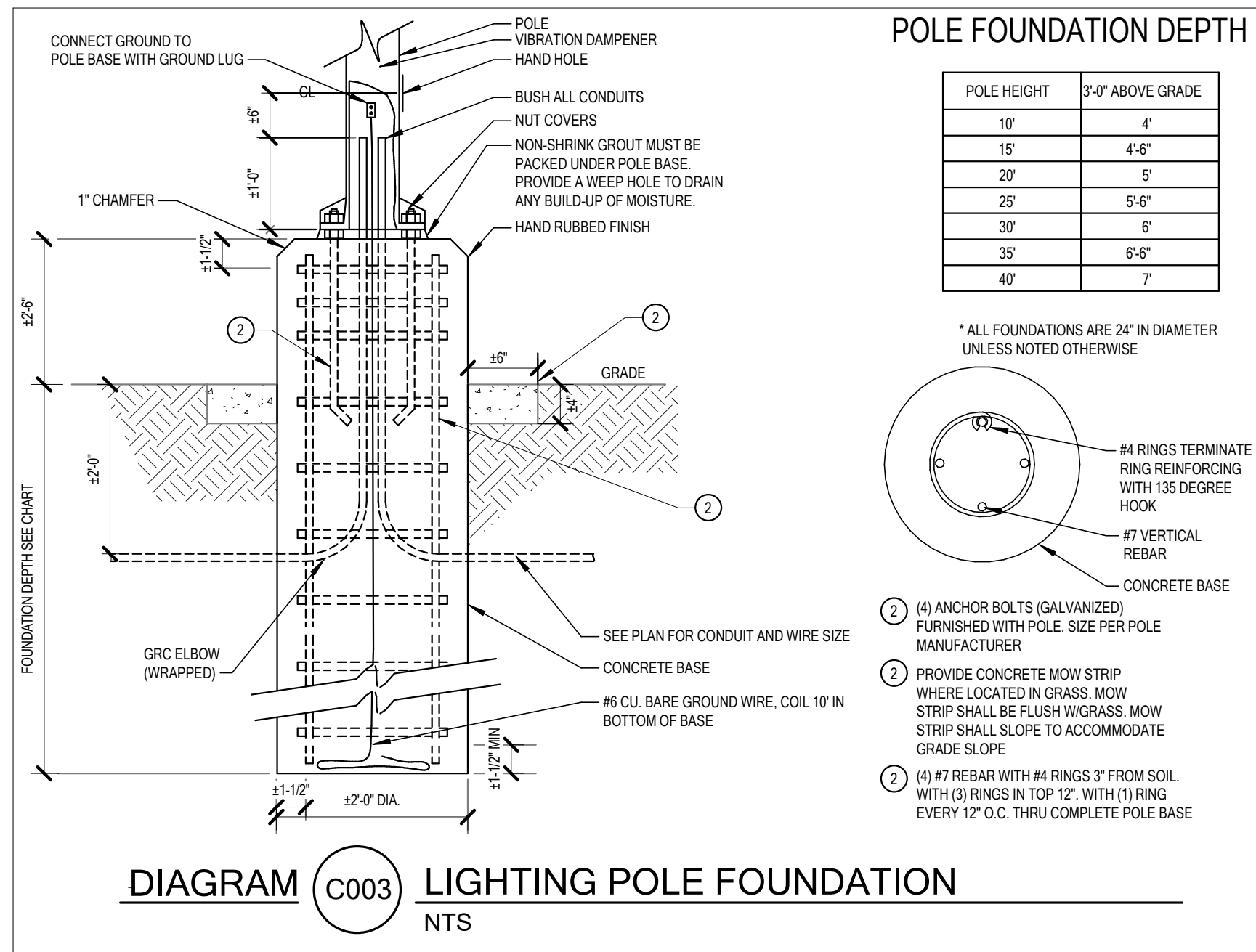


DIAGRAM C003 LIGHTING POLE FOUNDATION NTS

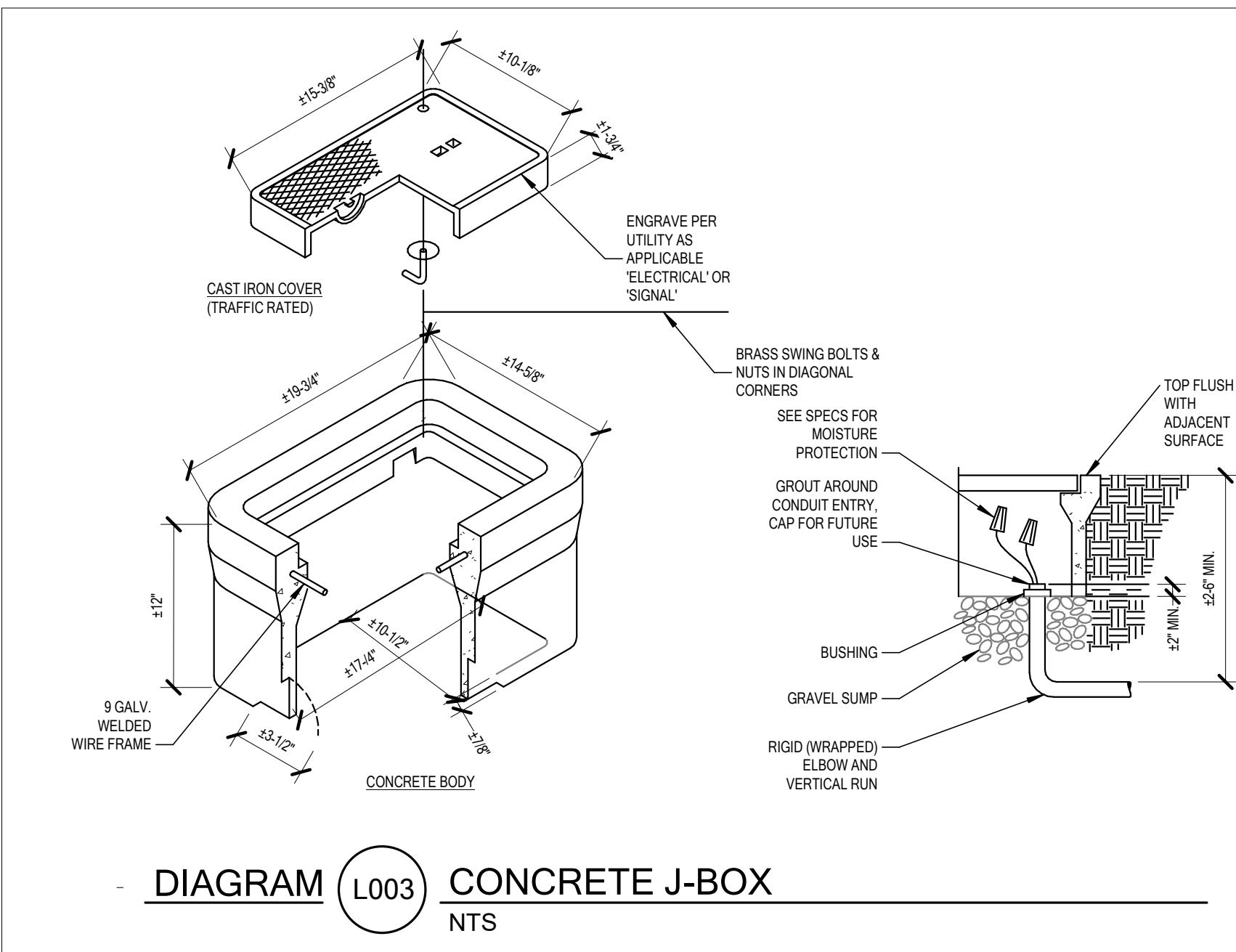


DIAGRAM L003 CONCRETE J-BOX NTS

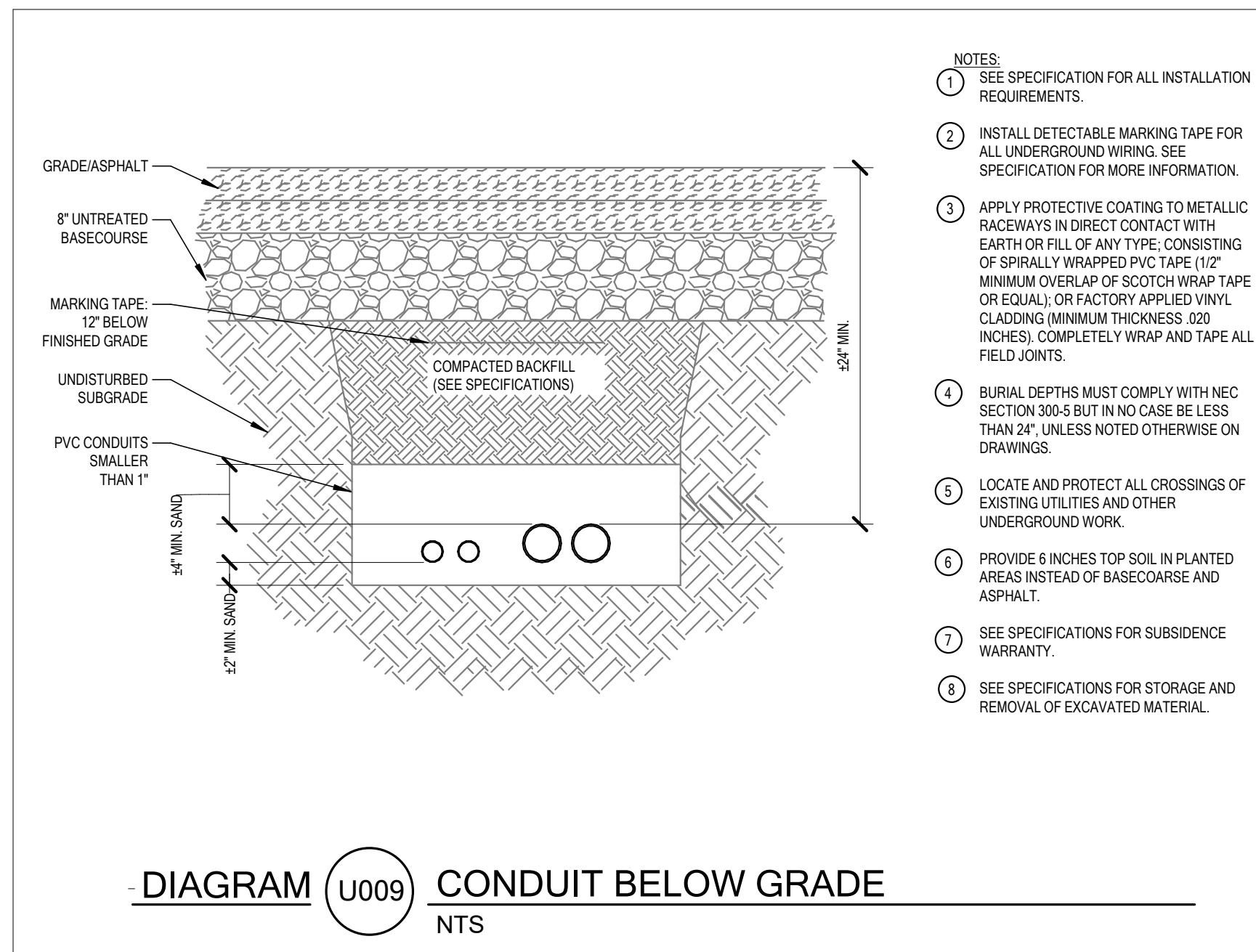


DIAGRAM U009 CONDUIT BELOW GRADE NTS

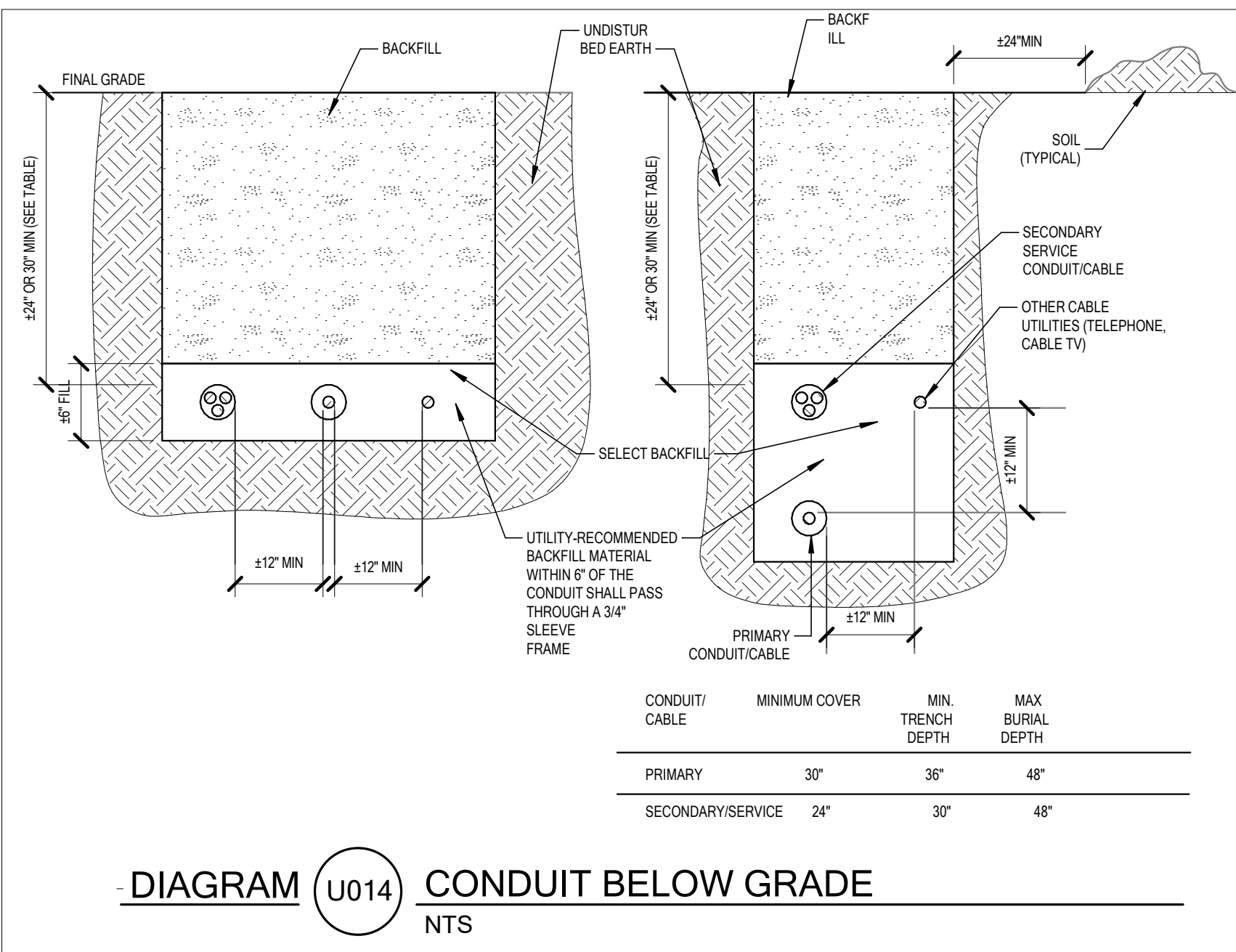
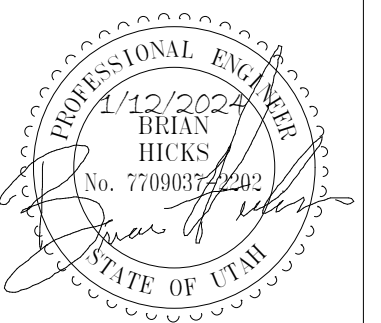


DIAGRAM U014 CONDUIT BELOW GRADE NTS



GREAT BASIN ENGINEERING
 5746 SOUTH 1475 EAST OGDEN, UTAH 84403
 MAIN (801) 924-4515 S.L.C (801) 521-0222 FAX (801) 922-7544 WWW.GREATBASINENGINEERING.COM

ELECTRICAL SCHEDULE
 Mountain Ridge High School Access Roads
 14202 S Sentinel Ridge Boulevard
 Herriman City, Salt Lake County, Utah
 A part of Section 6, T4S, R1W, SLB&M, U.S. Survey



4225 Lake Park Blvd, Suite 275
 West Valley City, UT 84120
 P: 801.532.2196
 F: 801.532.2305
 www.bnaconsulting.com

ELECTRICAL SPECIFICATIONS

ELECTRICAL GENERAL PROVISIONS

DESCRIPTION OF WORK: EXTENT OF ELECTRICAL WORK IS INDICATED ON DRAWINGS. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION AND SERVICE NECESSARY FOR A COMPLETE ELECTRICAL SYSTEM. WORK INCLUDES, BUT IS NOT NECESSARILY LIMITED TO THE FOLLOWING ITEMS:

- ELECTRICAL CONNECTIONS FOR EQUIPMENT
GROUNDING
CONDUIT RACEWAY
CONDUCTORS AND CABLES
ELECTRICAL BOXES AND FITTINGS
SUPPORTING DEVICES
LIGHT FIXTURES
ELECTRICAL IDENTIFICATION
VISIT THE SITE DURING THE BIDDING PERIOD TO DETERMINE EXISTING CONDITIONS AFFECTING ELECTRICAL AND OTHER WORK...
QUALITY ASSURANCE: PERFORM WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC)...
SUBMITTALS: AFTER THE CONTRACT IS AWARDED BUT PRIOR TO MANUFACTURE OR INSTALLATION OF ANY EQUIPMENT...
RECORD DRAWINGS: MAINTAIN ON A DAILY BASIS, A COMPLETE SET OF RECORD DRAWINGS...
OPERATION AND MAINTENANCE MANUALS: PROVIDE OPERATING INSTRUCTION AND MAINTENANCE DATA BOOKS...

ELECTRICAL CONNECTION FOR EQUIPMENT

VERIFY EXACT LOAD AND LOCATION OF ALL EQUIPMENT BEFORE ROUGH-IN FOR EACH ELECTRICAL CONNECTION. PROVIDE COMPLETE ASSEMBLY OF MATERIAL, INCLUDING BUT NOT NECESSARILY LIMITED TO, RACEWAYS, CONDUCTORS, CORDS, CORD CAPS, PLUGS, WIRING DEVICES, PRESSURE CONNECTORS, TERMINALS (LUGS), ELECTRICAL INSULATING TAPE, HEAT-SHRINKABLE INSULATING TUBING, CABLE TIES, SOLDERLESS WIRE NUTS, AND OTHER ITEMS AND ACCESSORIES AS NEEDED TO COMPLETE SPLICES, TERMINATIONS, AND CONNECTIONS AS REQUIRED...

GROUNDING

PROVIDE GROUNDING AND BONDING OF ALL ELECTRICAL AND COMMUNICATION APPARATUS, MACHINERY, APPLIANCES, BUILDING COMPONENTS, AND ITEMS REQUIRED BY THE NEC TO PROVIDE A PERMANENT, CONTINUOUS LOW IMPEDANCE, GROUNDING SYSTEM...

CONDUIT RACEWAYS

PROVIDE METAL CONDUIT, TUBING, AND FITTINGS OF TYPES, GRADES, SIZES, AND WEIGHTS (WALL THICKNESS) AS REQUIRED. WITH MINIMUM TRADE SIZE OF 3/4". INSTALL ELECTRICAL RACEWAY SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPLICABLE REQUIREMENTS OF NEC AND NECA 'STANDARD OF INSTALLATION' IN ACCORDANCE WITH THE FOLLOWING:
FEEDERS: INSTALL FEEDERS RATED 100 AMPS AND GREATER, IN ELECTRICAL METALIC CONDUIT (EMT), WHERE BURIED BELOW GRADE...
BRANCH CIRCUITS, AND INDIVIDUAL EQUIPMENT CIRCUITS RATED LESS THAN 100 AMPS...
RIGID METAL CONDUIT (RMC) FOR ALL BENDS IN BURIED CONDUIT GREATER THAN 30 DEGREES...

CONDUCTORS AND CABLES

PROVIDE FACTORY-FABRICATED CONDUCTORS FOR SIZED, RATINGS, MATERIAL, AND TYPES INDICATED FOR EACH SERVICE. PROVIDE COPPER CONDUCTORS, WITH THIN THIN INSULATION. SIZE ALL CONDUCTORS IN ACCORDANCE WITH NEC; MINIMUM SIZE TO BE #12 AWG. PROVIDE STRANDED CONDUCTORS FOR #8 AWG AND LARGER.

ELECTRICAL BOXES AND FITTINGS

PROVIDE ONE PIECE GALVANIZED FLAT ROLLED SHEET STEEL INTERIOR OUTLET WIRING BOXES, CORROSION-RESISTANT CAST-METAL WEATHERPROOF OUTLET WIRING BOXES, CODE-GAGE SHEET STEEL JUNCTIONS AND PULL BOXES, CAST-IRON WATERPROOF ADJUSTABLE FLOOR BOXES, GALVANIZED CAST-METAL CONDUIT BODIES, CORROSION-RESISTANT PUNCHED-STEEL BOX KNOCKOUT CLOSURES, CONDUIT LOCKOUTS AND MALLEABLE STEEL CONDUIT BUSHINGS AND OFFSET CONNECTORS, AND ALL ACCESSORIES AS REQUIRED TO SUIT EACH RESPECTIVE LOCATION AND INSTALLATION...

SUPPORTING DEVICES

PROVIDE SUPPORTS, ANCHORS, SLEEVES AND SEALS AS REQUIRED FOR A COMPLETE RACEWAY SUPPORT SYSTEM, INCLUDING BUT NOT LIMITED TO: CLEVIS HANGERS, RISER CLAMPS, C-CLAMPS, BEAM CLAMPS, ONE AND TWO HOLE CONDUIT STRAPS, OFFSET CONDUIT CLAMPS, EXPANSION ANCHORS, TOGGLE BOLTS, THREADED RODS, U-CHANNEL STRUT SYSTEM, AND ALL ASSOCIATED ACCESSORIES. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND WITH RECOGNIZED INDUSTRY PRACTICES TO INSURE SUPPORTING DEVICES COMPLY WITH REQUIREMENTS...

LIGHTING FIXTURES

PROVIDE LIGHTING FIXTURES COMPLETE WITH ALL COMPONENTS FOR EACH SIZE, TYPE, AND RATING INDICATED. THIS INCLUDES, BUT NOT LIMITED TO HOUSING, DRIVER, REFLECTORS, AND WIRING. SIZE FUSES PER BALLAST MANUFACTURER'S RECOMMENDATION. PROVIDE ALL NECESSARY SUPPORTS, BRACKETS, AND MISCELLANEOUS EQUIPMENT FOR MOUNTING OF FIXTURES. SUPPORT ALL GRID MOUNTED FIXTURES FROM THE BUILDING STRUCTURE WITH #12 GA. STEEL WIRE ATTACHED TO EACH CORNER, INDEPENDENT OF THE CEILING SYSTEM...

ELECTRICAL IDENTIFICATION

PROVIDE ELECTRICAL IDENTIFICATION PRODUCTS FOR BURIED ELECTRICAL LINES, ARC-FLASH HAZARD LABELS (ANSI Z535.4), SOURCE OF SUPPLY LABELS, AVAILABLE FAULT CURRENT LABELS AND EMERGENCY OPERATING SIGNS TO EQUIPMENT INSTALLED AS PART OF THIS PROJECT. PROVIDE NYLON TYPE COVERPLATES THAT MATCH DEVICES. PROVIDE METAL COVERS FOR ALL DEVICES IN UNFINISHED SPACES. PROVIDE LABELS ON COVERPLATES INDICATING SOURCE OF POWER (I.E. PANEL - CIRCUIT #).

UTILITY COORDINATION

COORDINATE CLOSELY WITH ROCKY MOUNTAIN POWER (RMP) TO FINALIZE THE CONDUIT ROUTING SHOWN ON THE SITE PLAN. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND RMP ESR 2016 TO INSURE RMP CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT, TRENCHING AND BURIAL DEPTHS, AND IDENTIFICATION REQUIREMENTS ARE MET. ADJUST LOCATIONS OF ELECTRICAL WORK, BOXES, OUTLETS ETC. AS NECESSARY TO AVOID OBSTRUCTING ELECTRICAL EQUIPMENT OR BUILDING APERTURES... EXTENT OF SERVICE-ENTRANCE WORK IS INDICATED BY DRAWINGS AND SCHEDULES. SWITCHBOARDS, PANELS, DISCONNECTS, TRANSFORMERS, ETC., USED FOR SERVICE-ENTRANCE EQUIPMENT ARE SPECIFIED IN APPLICABLE DIVISION-26 SECTIONS, AND ARE INCLUDED AS WORK OF THIS SECTION. CONSULT LOCAL UTILITY RELATIVE TO ALL COSTS FOR LINE EXTENSIONS, CONNECTIONS, ETC., AND INCLUDE ALL COSTS FOR BRINGING SERVICE TO THE FACILITY IN BASE BID...

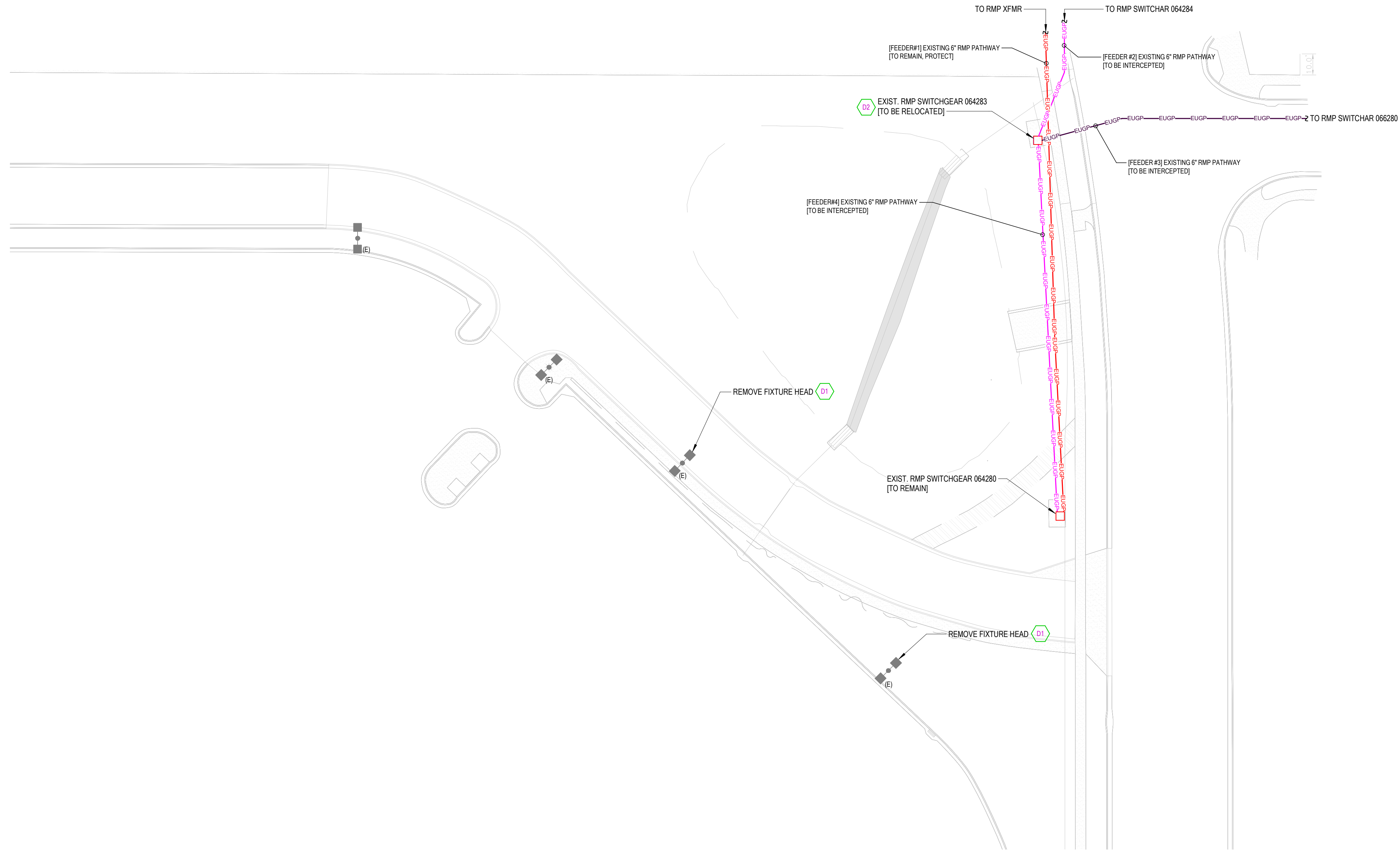
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GREAT BASIN ENGINEERING logo and contact information: 5746 SOUTH 1475 EAST OGDEN, UTAH 84403. MAIN (801)594-4515. S.L.C (801)521-0222. FAX (801)392-7544. WWW.GREATBASINENGINEERING.COM

ELECTRICAL SPECIFICATIONS
Mountain Ridge High School Access Roads
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Herriman City, Salt Lake County, Utah
A part of Section 6, T4S, R1W, SL&M, U.S. Survey
12 JAN, 2024
SHEET NO. E0.3
23N216

Blue Stakes of UTAH 811 logo
BNA CONSULTING logo
4225 Lake Park Blvd, Suite 275
West Valley City, UT 84120
P: 801.532.2196
F: 801.532.2305
www.bnaconsulting.com



ELECTRICAL SITE DEMOLITION PLAN-NORTH
 SCALE = 1" = 30'-0"
[ALTERNATE #1]

ELECTRICAL SITE UTILITY COORDINATION	
ELECTRICAL SITE UTILITY INFORMATION HAS BEEN COORDINATED WITH THE FOLLOWING UTILITY COMPANY REPRESENTATIVES. VERIFY ALL LOCATIONS, DIMENSIONS, CLEARANCES, REGULATIONS, ETC., PRIOR TO INSTALLATION. NOTIFY ENGINEER OF ANY REVISIONS REQUIRED.	
POWER COMPANY	ROCKY MOUNTAIN POWER [RMP]
CONTACT	John Langl Jr.
PHONE NO.	(801) 576-6102
EMAIL	John.Langl@rockymountainpower.net
WORK ORDER NO.	9139044

- ### GENERAL SITE PLAN NOTES
- REFER TO CIVIL DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
 - DIVISION 26 SHALL VISIT THE SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTIONS AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM. DIVISION 26 SHALL COORDINATE PROJECT PHASING WITH THE GENERAL CONTRACTOR AND BID AND PERFORM RESPONSIBILITIES FOR THIS PROJECT TO CONTRACT EXPECTATIONS.
 - DIVISION 26 SHALL CONFIRM EXACT LOCATION OF EXISTING AND NEW EQUIPMENT WITH OWNERS. ROUGH-IN LOCATIONS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. EXISTING ELECTRICAL FIXTURES, DEVICES, EQUIPMENT, CIRCUITING AND/OR CONDITIONS ARE NOT SPECIFIED UNLESS NOTED ON DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING, AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR AND CLOSELY COORDINATED WITH OWNER. ALL EXISTING CONDITIONS MUST BE VERIFIED WITHOUT EXCEPTION.
 - DIVISION 26 SHALL BLUE STAKE THE AREA OF NEW CONSTRUCTION PRIOR TO EXCAVATION FOR FOOTINGS, ETC. IDENTIFY BURIED ELECTRICAL SYSTEMS (UTILITIES, POWER, COMMUNICATIONS, ETC.) AND COORDINATE LOCATIONS WITH THE GENERAL CONTRACTOR. IF EXISTING ELECTRICAL SYSTEMS ARE DISTURBED (POWER, AUXILIARY, ETC.) E.C. SHALL MAKE NECESSARY REPAIRS (AS APPROVED BY DISTRICT REPRESENTATIVE) AS PART OF THIS CONTRACT.
 - CONTRACTOR TO CLOSELY COORDINATE ALL NEW AND EXISTING DEVICE LOCATIONS WITH CIVIL & RMP DRAWINGS. CONTRACTOR TO VERIFY ALL FINAL GRADE REQUIREMENTS WITH CIVIL DRAWINGS.
 - COORDINATE DEMOLITION AND PROJECT PHASING REQUIREMENTS WITH THE ENTIRE CONSTRUCTION SET AND GENERAL CONTRACTOR. PROVIDE SELECT DEMOLITION OF ELECTRICAL APPARATUS IN AREAS SHOWN FOR DEMOLITION. MAKE DEMOLITION AREAS SAFE AS REQUIRED. LEAVE ALL EXISTING EQUIPMENT IN PORTIONS OF THE BUILDING, SITE, AND CAMPUS NOT BEING REMODELED AND AREAS NOT YET DEMOLISHED IN WORKING.
 - THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
 - CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH GENERAL, HEAD CUSTODIAN, AND OWNER.
 - ELECTRICAL UTILITY SERVICE FROM ROCKY MOUNTAIN POWER (RMP) HAS BEEN GENERALLY COORDINATED AND GENERAL DIRECTION GIVEN HEREIN. DIVISION 26 RESPONSIBLE FOR COMPLETELY COORDINATING THE EXACT PATHWAYS AND REQUIREMENTS WITH RMP PRIOR TO ROUGH-IN. PROVIDE FIBERGLASS LONG RADIUS SWEEPS FOR ALL SFCP CONDUITS. COORDINATE ALL ROUGH-IN AND INSTALLATION REQUIREMENTS WITH LATEST RMP ELECTRICAL SERVICE REQUIREMENTS AND CONTACT PERSON PROVIDED ON PLAN ALL NEW DEVELOPMENTS WILL BE SERVICED UNDERGROUND; CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL UNDERGROUND CONDUIT, SECONDARY CONDUCTORS, TRANSFORMER PADS, AND SECONDARY BOXES. THE UNDERGROUND ELECTRICAL DISTRIBUTION LAYOUT SHALL BE COMPLETED OR APPROVED BY RMP ENGINEERING DIVISION.
 - TRENCHING AND BACKFILL: LOCATE AND PROTECT EXISTING UTILITIES AND OTHER UNDERGROUND WORK IN A MANNER WHICH WILL ENSURE THAT NO DAMAGE OR SERVICE INTERRUPTIONS WILL RESULT FROM EXCAVATING AND BACKFILLING. PERFORM EXCAVATION IN A MANNER WHICH PROTECTS WALLS, FOOTINGS, AND OTHER STRUCTURAL MEMBERS FROM BEING DISTURBED OR DAMAGED IN ANY WAY. BURIAL DEPTHS MUST COMPLY WITH NEC SECTION 300-5 (OR STATE OF UTAH REQUIREMENTS, WHICHEVER IS MORE STRINGENT), UNLESS NOTED OTHERWISE. PATCH AND REPAIR ROADS, PARKING AREAS, SIDEWALKS, CURBS, OTHER PAVED AREAS, PLANTING AND ANY OTHER DISTURBED AREAS CAUSED BY THE ELECTRICAL CONTRACTOR DURING CONSTRUCTION.
 - BORING, TRENCHING, ASPHALT CUTTING AND PATCH WORK BY DIVISION 26. ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISION 26. SCHEDULING OF THE TRENCHING SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.

- ### SHEET KEYNOTES
- EXISTING DUAL HEADED LIGHT POLE. REMOVE (1) LIGHT FIXTURE HEAD AS INDICATED, LEAVING ONLY ONE LEFT LIGHTING THE EXISTING PARKING LOT. RETURN REMOVED LIGHT FIXTURE HEAD TO OWNER. PROVIDE SILVER METALLIC COVER PLATE OVER MOUNTING HOLES AND SEAL UP POLES AS REQUIRED (EXISTING VISIONAIRE LIGHTING 25' ROUND TAPERED LIGHT POLE).
 - EXISTING RMP SWITCHGEAR AND THE ACCOMPANYING CONDUIT PATHWAYS/FEEDERS ARE TO BE REWORKED (E.G. RELOCATED, INTERCEPTED/ROUTED, PROTECTED, ETC.) AS REQUIRED FOR THE NEW DRIVE. DIVISION 26 SHALL COORDINATE DIRECTLY WITH RMP AND GC REGARDING THE TIMING AND PHASING OF THE TEMPORARY SHUTDOWN OF UTILITY POWER AND REMOVAL OF UTILITY CONDUCTORS AS REQUIRED FOR REWORK. DIVISION 26 RESPONSIBLE FOR THE ENTIRTY OF THE WORK SHOWN.

Blue Stakes of UTAH 811
Bluestakes.org

BNA CONSULTING
4225 Lake Park Blvd, Suite 275
West Valley City, UT 84120
P: 801.532.2196
F: 801.532.2305
www.bnaconsulting.com

ELECTRICAL SITE DEMOLITION PLAN - NORTH

Mountain Ridge High School Access Roads
14202 S Sentinel Ridge Boulevard
Herriman City, Salt Lake County, Utah
A part of Section 6, T4S, R1W, SLB&M, U.S. Survey

12 JAN, 2024

SHEET NO. **ED1.1**

DATE: _____
REV: _____

PROFESSIONAL ENGINEER
BRIAN HICKS
No. 77090372202
STATE OF UTAH

GREAT BASIN ENGINEERING
5746 SOUTH 1475 EAST OGDEN, UTAH 84403
MAIN (801) 944-4515 S.L.C. (801) 521-0222 FAX
(801) 392-7544 WWW.GREATBASINENGINEERING.COM

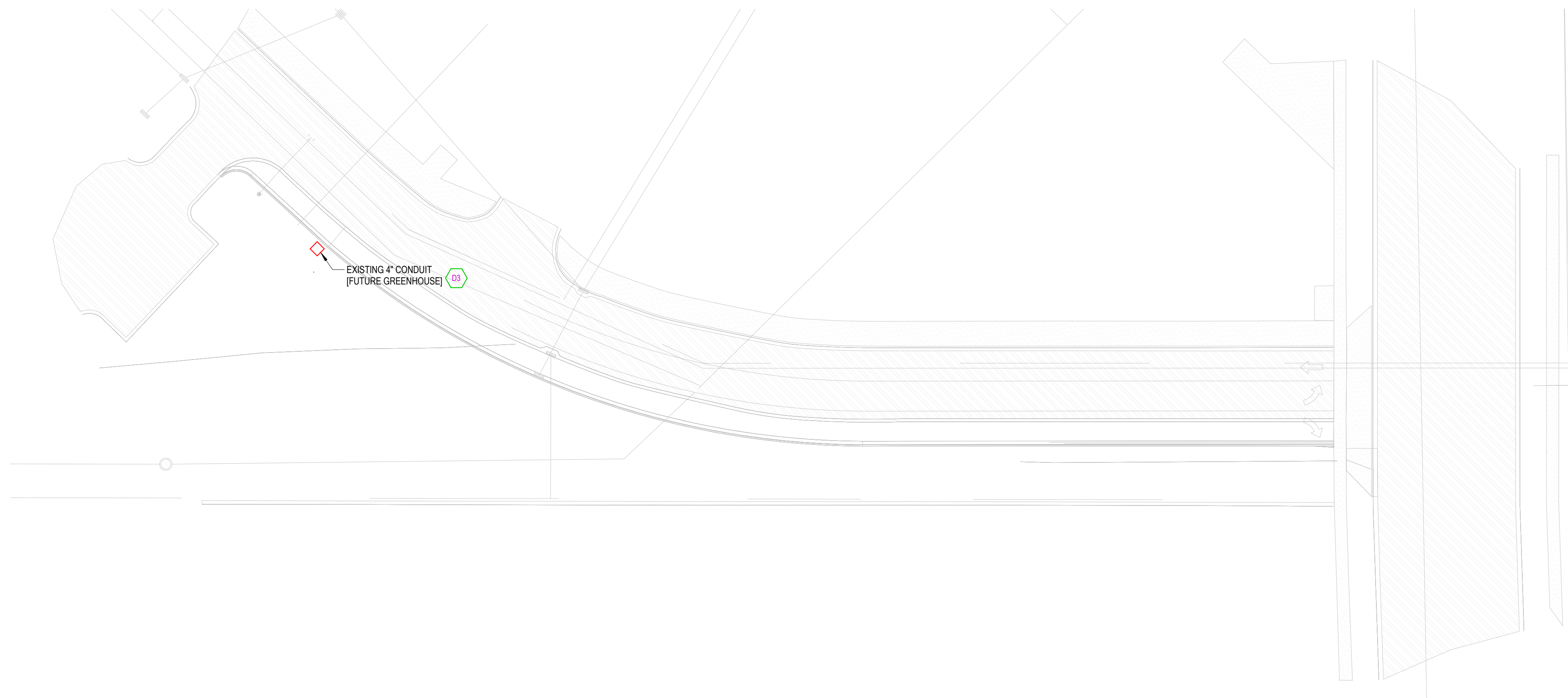
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GENERAL SITE PLAN NOTES

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- MAINTAIN AND PROTECT EXISTING UTILITY SERVICES AND ELECTRIFIED EQUIPMENT FOR EXISTING FACILITIES. COORDINATE REQUIRED DISRUPTION OF THESE SERVICES WITH OWNER PRIOR TO DISCONNECTING. PROVIDE TEMPORARY UTILITY SERVICES TO KEEP FACILITIES IN OPERATION DURING UTILITY RELOCATION INCLUDING BUT NOT LIMITED TO FIRE WATCHES, ELECTRICAL GENERATORS, ETC.
- ANY ELECTRICAL ROUGH-IN, EQUIPMENT AND CONDUIT PATHWAYS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING, AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR.
- DIVISION 26 SHALL BLUE STAKE THE AREA OF NEW CONSTRUCTION PRIOR TO EXCAVATION FOR FOOTINGS, ETC. IDENTIFY BURIED ELECTRICAL SYSTEMS (UTILITIES, POWER, COMMUNICATIONS, ETC.) AND COORDINATE LOCATIONS WITH THE GENERAL CONTRACTOR. IF EXISTING ELECTRICAL SYSTEMS ARE DISTURBED (POWER AUXILIARY, ETC.) E.C. SHALL MAKE NECESSARY REPAIRS (AS APPROVED BY DISTRICT REPRESENTATIVE) AS PART OF THIS CONTRACT.
- CONTRACTOR TO CLOSELY COORDINATE ALL NEW AND EXISTING DEVICE LOCATIONS WITH CIVIL DRAWINGS. CONTRACTOR TO VERIFY ALL FINAL GRADE REQUIREMENTS WITH CIVIL DRAWINGS.
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- BORING, TRENCHING, ASPHALT CUTTING AND PATCHWORK BY DIVISION 26. ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISION 26. SCHEDULING OF THE TRENCHING SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
- CABLE RUNS SHALL BE MARKED WITH RED PLASTIC MARKING TAPE INSTALLED IN THE TRENCH ONE FOOT BELOW SURFACE. BACKFILL SHALL BE FREE OF ROCKS AND OTHER OBJECTS WHICH MIGHT DAMAGE THE CABLE.
- TRENCHING, ASPHALT CUTTING AND PATCHWORK BY DIVISION 26. ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISION 26. SCHEDULING OF THE TRENCHING AND INSTALLATION OF CABLE SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
- VERIFY LOCATION OF LIGHT POLES WITH THE OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE HAND-RUBBED FINISHES FOR ALL SITE POLES. REFER TO DIAGRAM C003 FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO PROVIDE PULL BOXES AS REQUIRED PER NEC AND NECESSARY TO PROVIDE SUCCESSFUL CABLE PULLS.

SHEET KEYNOTES

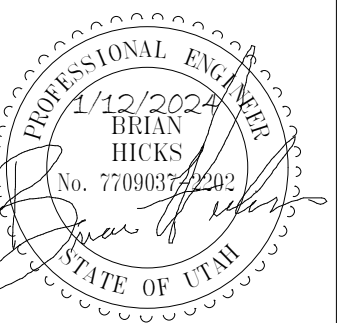
- D3 EXISTING 4" CONDUIT STUB. INTERCEPT AND REROUTE TO THE SOUTH AND OUT OF THE NEW DRIVE EXPANSION. COORDINATE WITH OWNER THE EXACT FINAL DESIRED NEW LOCATION OF CONDUIT. WEATHERPROOF AND CAP CONDUIT AS REQUIRED.



**ELECTRICAL SITE DEMOLITION
PLAN-SOUTH**
SCALE = 1" = 30'-0"



4225 Lake Park Blvd, Suite 275
West Valley City, UT 84120
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F: 801.532.2305
www.bnaconsulting.com



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ELECTRICAL SITE DEMOLITION PLAN - SOUTH
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Herriman City, Salt Lake County, Utah
A part of Section 6, T4S, R1W, SLB&M, U.S. Survey

12 JAN, 2024

SHEET NO.
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ELECTRICAL SITE UTILITY COORDINATION

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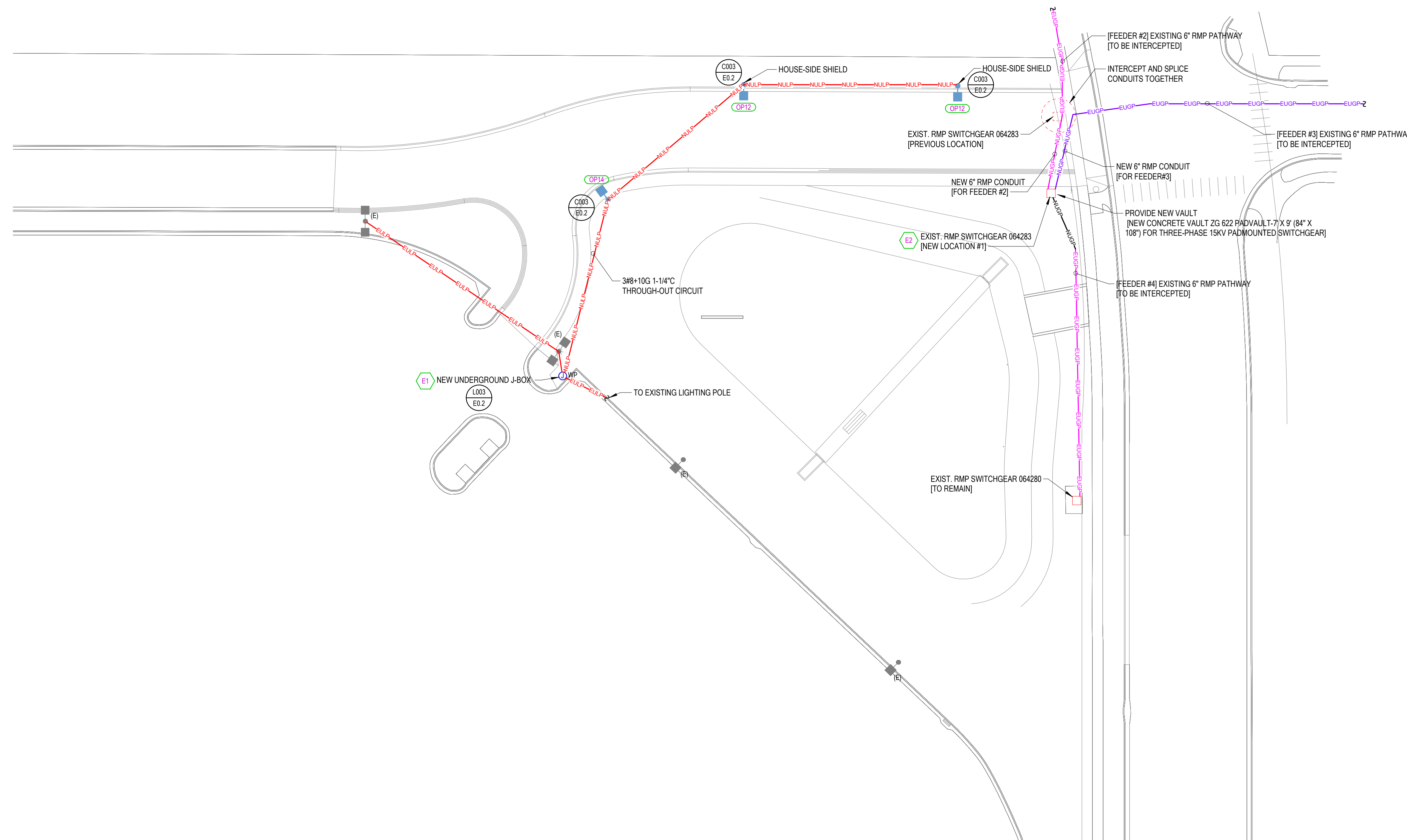
POWER COMPANY	ROCKY MOUNTAIN POWER [RMP]
CONTACT	John Langl Jr.
PHONE NO.	(801) 576-6102
EMAIL	John.Langl@rockymountainpower.net
WORK ORDER NO.	9139044

GENERAL SITE PLAN NOTES

- DIVISION 26 SHALL VISIT THE SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTIONS AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM. DIVISION 26 SHALL COORDINATE PROJECT PHASING WITH THE GENERAL CONTRACTOR AND BID AND PERFORM RESPONSIBILITIES FOR THIS PROJECT TO CONTRACT EXPECTATIONS.
- MAINTAIN AND PROTECT EXISTING UTILITY SERVICES AND ELECTRIFIED EQUIPMENT FOR EXISTING FACILITIES. COORDINATE REQUIRED DISRUPTION OF THESE SERVICES WITH OWNER PRIOR TO DISCONNECTING. PROVIDE TEMPORARY UTILITY SERVICES TO KEEP FACILITIES IN OPERATION DURING UTILITY RELOCATION INCLUDING BUT NOT LIMITED TO FIRE WATCHES, ELECTRICAL GENERATORS, ETC.
- ANY ELECTRICAL ROUGH-IN, EQUIPMENT AND CONDUIT PATHWAYS ARE DIAGRAMMATICALLY SHOWN ON THE DRAWINGS. FINAL ROUTING OF THE CONDUITS, CIRCUITING, AND CABLING SHALL BE DETERMINED BY THE CONTRACTOR.
- DIVISION 26 SHALL BLUE STAKE THE AREA OF NEW CONSTRUCTION PRIOR TO EXCAVATION FOR FOOTINGS, ETC. IDENTIFY BURIED ELECTRICAL SYSTEMS (UTILITIES, POWER, COMMUNICATIONS, ETC.) AND COORDINATE LOCATIONS WITH THE GENERAL CONTRACTOR. IF EXISTING ELECTRICAL SYSTEMS ARE DISTURBED (POWER, AUXILIARY, ETC.) E.C. SHALL MAKE NECESSARY REPAIRS (AS APPROVED BY DISTRICT REPRESENTATIVE) AS PART OF THIS CONTRACT.
- CONTRACTOR TO CLOSELY COORDINATE ALL NEW AND EXISTING DEVICE LOCATIONS WITH CIVIL DRAWINGS. CONTRACTOR TO VERIFY ALL FINAL GRADE REQUIREMENTS WITH CIVIL DRAWINGS.
- CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH THE GENERAL, HEAD CUSTODIAN, AND OWNER.
- ELECTRICAL UTILITY SERVICE FROM ROCKY MOUNTAIN POWER (RMP) HAS BEEN GENERALLY COORDINATED AND GENERAL DIRECTION GIVEN HEREIN. DIVISION 26 RESPONSIBLE FOR COMPLETELY COORDINATING THE EXACT PATHWAYS AND REQUIREMENTS WITH RMP PRIOR TO ROUGH-IN. PROVIDE FIBERGLASS LONG RADIUS SWEEPS FOR ALL STOP CONDUITS. COORDINATE ALL ROUGH-IN AND INSTALLATION REQUIREMENTS WITH LATEST RMP ELECTRICAL SERVICE REQUIREMENTS AND CONTACT PERSON PROVIDED ON PLAN ALL NEW DEVELOPMENTS WILL BE SERVICED UNDERGROUND; CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL UNDERGROUND CONDUIT, SECONDARY CONDUCTORS, TRANSFORMER PADS, AND SECONDARY BOXES. THE UNDERGROUND ELECTRICAL DISTRIBUTION LAYOUT SHALL BE COMPLETED OR APPROVED BY RMP ENGINEERING DIVISION.
- TRENCHING AND BACKFILL: LOCATE AND PROTECT EXISTING UTILITIES AND OTHER UNDERGROUND WORK IN A MANNER THAT WILL ENSURE THAT NO DAMAGE OR SERVICE INTERRUPTIONS WILL RESULT FROM EXCAVATING AND BACKFILLING. PERFORM EXCAVATION IN A MANNER THAT PROTECTS WALLS, FOOTINGS, AND OTHER STRUCTURAL MEMBERS FROM BEING DISTURBED OR DAMAGED IN ANY WAY. BURIAL DEPTHS MUST COMPLY WITH NEC SECTION 300-5 (OR STATE OF UTAH REQUIREMENTS, WHICHEVER IS MORE STRINGENT), UNLESS NOTED OTHERWISE. PATCH AND REPAIR ROADS, PARKING AREAS, SIDEWALKS, CURBS, OTHER PAVED AREAS, PLANTING AND ANY OTHER DISTURBED AREAS CAUSED BY THE ELECTRICAL CONTRACTOR DURING CONSTRUCTION.
- BORING, TRENCHING, ASPHALT CUTTING AND PATCHWORK BY DIVISION 26. ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISION 26. SCHEDULING OF THE TRENCHING SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
- CABLE RUNS SHALL BE MARKED WITH RED PLASTIC MARKING TAPE INSTALLED IN THE TRENCH ONE FOOT BELOW SURFACE. BACKFILL SHALL BE FREE OF ROCKS AND OTHER OBJECTS WHICH MIGHT DAMAGE THE CABLE.
- TRENCHING, ASPHALT CUTTING AND PATCHWORK BY DIVISION 26. ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISION 26. SCHEDULING OF THE TRENCHING AND INSTALLATION OF CABLE SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
- VERIFY LOCATION OF LIGHT POLES WITH THE OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDE HAND-RUBBED FINISHES FOR ALL SITE POLES. REFER TO DIAGRAM C003 FOR ADDITIONAL INFORMATION.
- CONTRACTOR TO PROVIDE PULL BOXES AS REQUIRED PER NEC AND NECESSARY TO PROVIDE SUCCESSFUL CABLE PULLS.

SHEET KEYNOTES

- PROVIDE NEW UNDERGROUND ELECTRICAL J-BOX WITHIN THE NEARBY LANDSCAPING. LOCATE AND INTERCEPT EXISTING BRANCH CIRCUIT SERVING EXISTING LIGHT POLES. EXTEND ONTO EXISTING SITE LIGHTING CIRCUITRY AND EXTEND CIRCUIT TO NEW LIGHT POLES LOCATIONS AS SHOWN. EXISTING CIRCUITRY UTILIZES 480V 3P CIRCUITING TOPOLOGY. VERIFY THE EXISTING CIRCUITING AND WIRE EACH EACH NEW 480V 1P LUMINAIRE ACCORDINGLY WHILE DISTRIBUTING LIGHTING LOAD EVENLY ACROSS ALL THREE PHASES e.g. AB (FIRST), CA (SECOND), BC (THIRD) ETC. REWORK CIRCUIT AS REQUIRED TO ENSURE A COMPLETE AND WORKING SITE LIGHTING CIRCUIT FOR THE EXISTING AND NEW LIGHT POLES.
- NEW LOCATION OF EXISTING RMP SWITCHGEAR. PROVIDE NEW VAULT AS INDICATED AND REWORKED PATHWAYS AS INDICATED. COORDINATE EXACT LOCATION OF SWITCHGEAR WITH GC, RMP, AND OWNER PRIOR TO REWORK.



 ELECTRICAL SITE PLAN - NORTH
SCALE = 1" = 30'-0"
[ALTERNATE #1]



4225 Lake Park Blvd, Suite 275
West Valley City, UT 84120

P: 801.532.2196
F: 801.532.2305

www.bnaconsulting.com

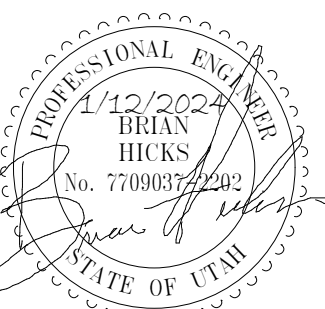
ELECTRICAL SITE PLAN - NORTH
Mountain Ridge High School Access Roads
14202 S Sentinel Ridge Boulevard
Herriman City, Salt Lake County, Utah
A part of Section 6, T4S, R1W, SLB&M, U.S. Survey

12 JAN, 2024

SHEET NO.

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GREAT BASIN ENGINEERING
5746 South 1475 East Odean, Utah 84403
MAIN (801) 944-4515 S.L.C. (801) 521-0222 FAX
(801) 392-7544 WWW.GREATBASINENGINEERING.COM

DATE

REV

DESCRIPTION