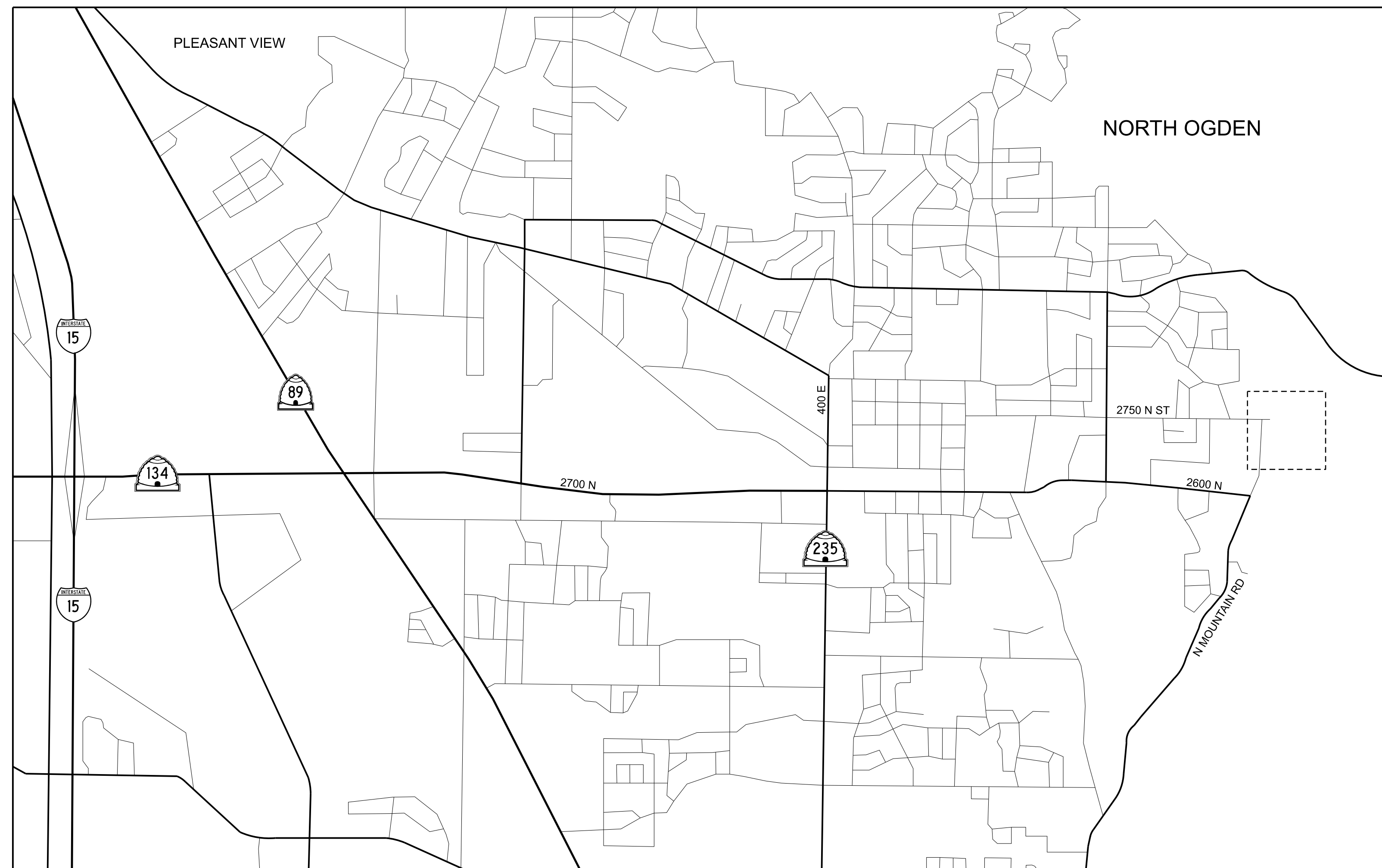
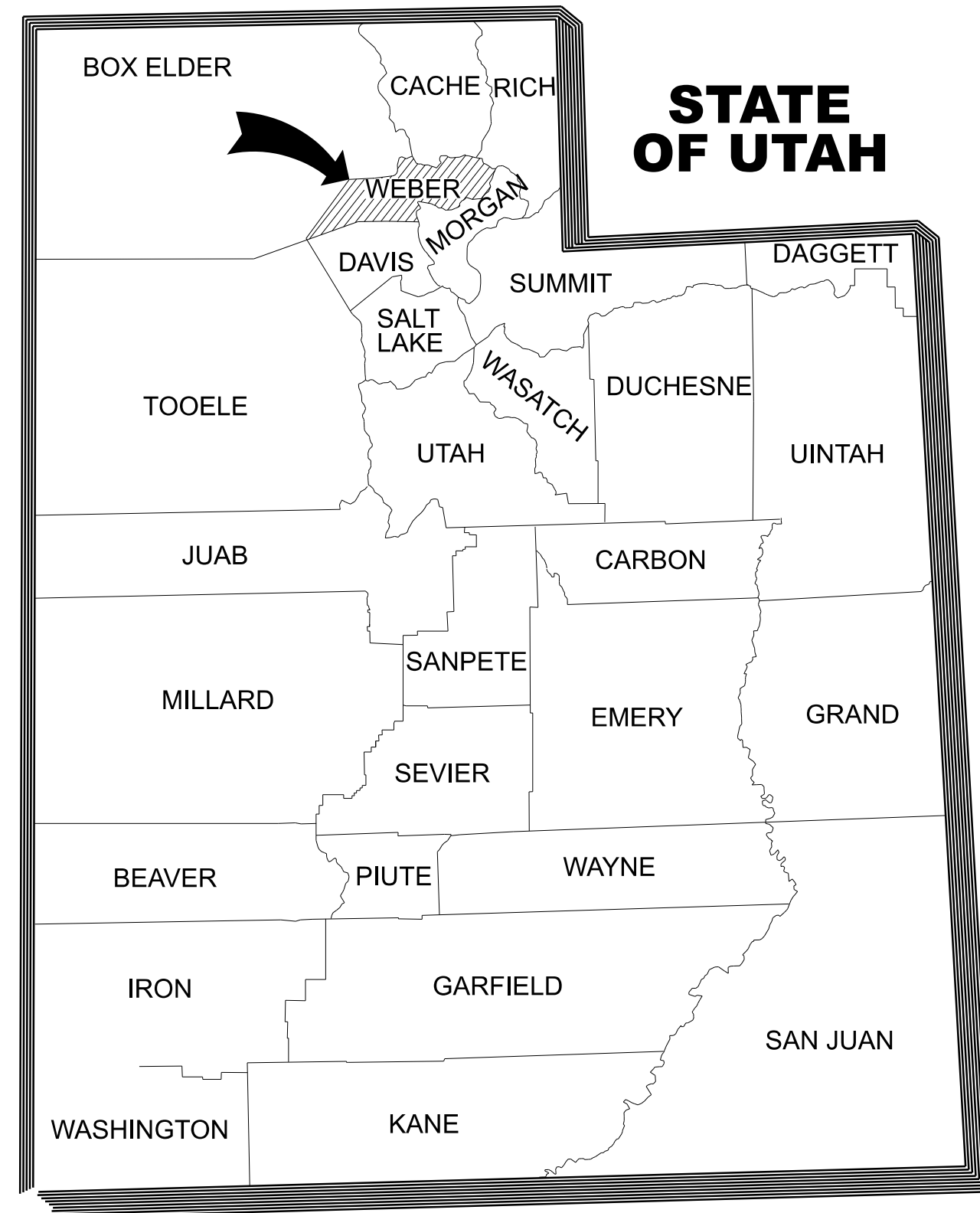


NORTH OGDEN CITY

2750 NORTH TRAILHEAD IMPROVEMENT PLAN



 **PROJECT LOCATION**



SHEET INDEX

SHEET NO.	SHEET TITLE
1	TITLE SHEET
2	NOTES AND CONTACTS
3	OVERALL SITE PLAN
4	GRADING PLAN
5	DETAILS

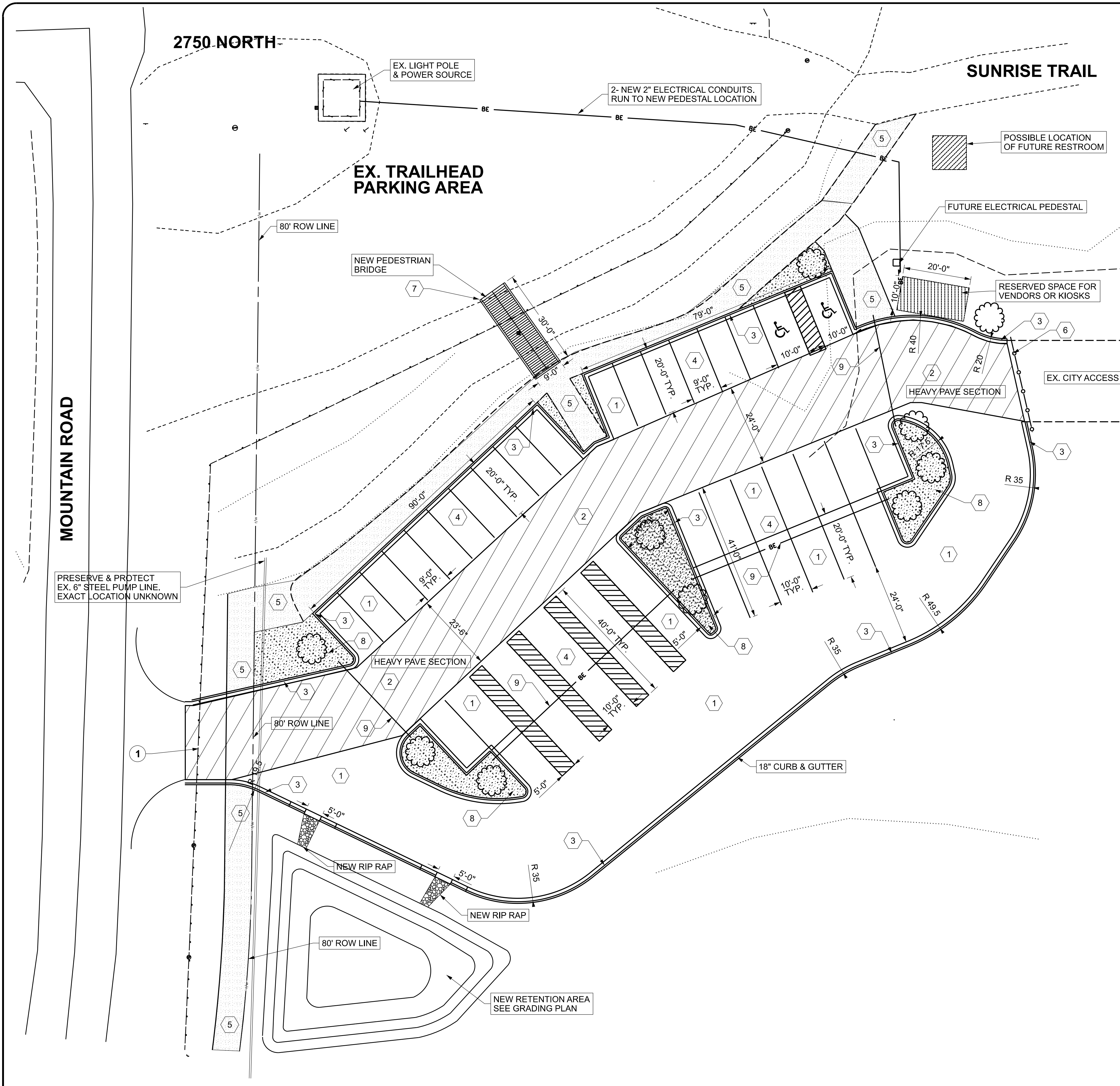
ESI ENGINEERING
 CONSULTING ENGINEERS AND LAND SURVEYORS
 4141 W 2100 S SUITE 100
 WEST VALLEY CITY, UTAH 84120
 TEL: (801) 263-1752

DESIGN	BFC	CHECK	BFC
DRAWN	MDF	CHECK	BFC
QUANT.	BFC	CHECK	BFC

APPROVED _____ DATE _____ CITY ENGINEER _____

NO	BY	DATE	REMARKS
REVISIONS			

PROJECT NUMBER **23-042** OF **1** OF **5**



GENERAL NOTES

ALL DIMENSIONS SHOWN ARE FROM TBC

PARKING STALL COUNT

REGULAR PARKING STALL: 32
 ADA PARKING STALL: 2
 HORSE TRAILER STALL: 4

CONSTRUCTION NOTES

- ① INSTALL NEW 3" THICK ASPHALT OVER 8" COMPACTED BASE COURSE
- ② INSTALL NEW 4" THICK ASPHALT OVER 12" COMPACTED BASE COURSE
- ③ INSTALL NEW 18" CURB AND GUTTER
- ④ STRIP PARKING AREAS AS SHOWN AND DIMENSIONED
- ⑤ INSTALL NEW 3" THICK BARK MULCH TRAIL SURFACING
- ⑥ INSTALL RELOCATED GATE
- ⑦ FURNISH AND INSTALL NEW PEDESTRIAN TRUSS BRIDGE. SEE DETAIL SHEET.
- ⑧ LANDSCAPE ISLANDS. LANDSCAPE BY CITY.
- ⑨ INSTALL 2-2" PVC CONDUITS

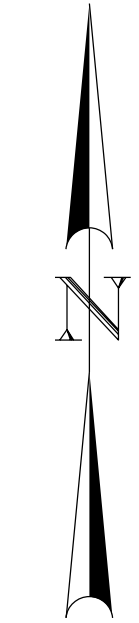
DEMO NOTES

- ① REMOVE EX. GATE

LEGEND

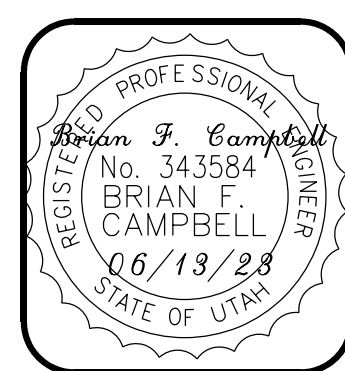
- ⊗ WATER VALVE & LINE
- ⊕ POWER POLE & LINE
- ⊙ SEWER MANHOLE & LINE
- ⊠ TELEPHONE PEDESTAL & LINE
- ⊖ STORM DRAIN MANHOLE & LINE
- ⊗ IRRIGATION VALVE & LINE
- ▭ BUILDING
- NEW CONTOURS
- ⊕ FENCE
- ⊕ EXISTING CURB & GUTTER
- ⊕ SIDEWALK
- TREE
- ⊕ FIRE HYDRANT

SCALE 1:15
 PRINT 24" X 36"



DATE	APPRO. MARK

DESCRIPTION	



ESI ENGINEERING
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 AND LAND SURVEYORS
 4141 WEST 2400 SOUTH SUITE 100
 WEST VALLEY CITY, UT 84120
 801-263-1752 - FAX 801-263-1780

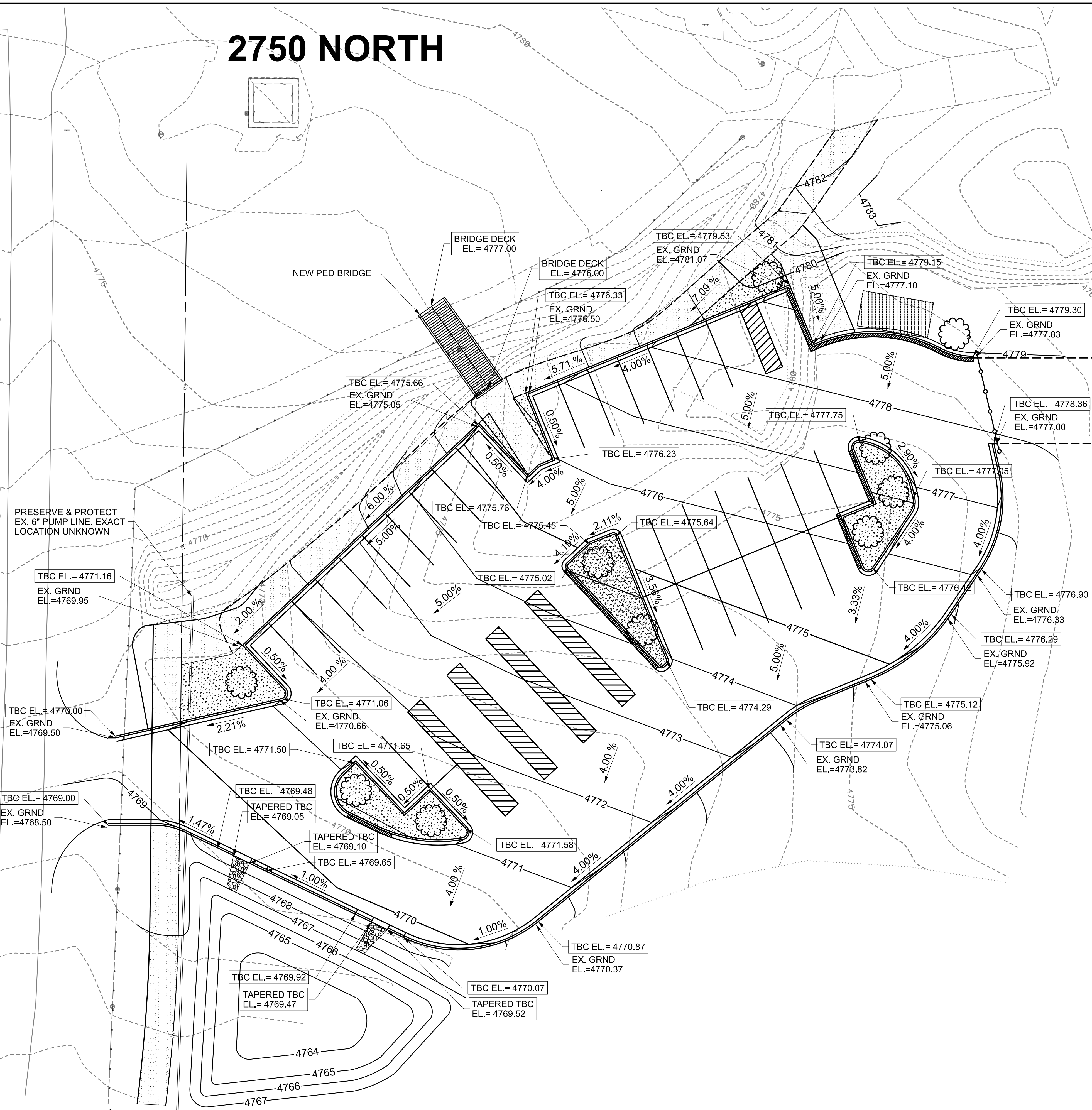
DESIGNED BY: BEC
 DRAWN BY: MFP
 CHECKED BY: COP
 DATE: 06-07-2023

TRAILHEAD PARKING LOT
 NORTH OGDEN CITY
 2750 NORTH MOUNTAIN ROAD
 NORTH OGDEN, UT

C-101
 OVERALL
 SITE
 PLAN
 PROJECT #
 23-042

2750 NORTH

MOUNTAIN ROAD



ESI Retention Volume Calculations

Rational Formula

Project: 2750 North Trailhead
 Project No.: 23-042
 Location: 2750 North Mountain Road, North Ogden, UT
 Date: June 7, 2023
 Prepared By: MDF
 Checked By: BFC

Input Data				
	Area	Runoff Coeff.	Weighted Runoff Coeff.	C _w A
	square feet	C	C _w	square feet
Roof	0	0.85		
Pavement	25,530	0.90		
Landscape	9,415	0.15		
Total	34,945		0.70	24,389
Total acres	0.80			
Percolation Rate	0.15	in/min		
Storm Frequency	100	year		

Analysis					
Storm Interval	Precipitation	C _w A	Storm Volume	Percolation	Required Retention
minutes	inches	square feet	cubic feet	cubic feet	cubic feet
15	1.32	24,389	2,683	53	2,630
30	1.78	24,389	3,618	107	3,511
60	2.20	24,389	4,471	213	4,258
120	2.57	24,389	5,223	426	4,797
180	2.66	24,389	5,406	639	4,767
360	3.06	24,389	6,219	1,278	4,941
720	4.04	24,389	8,211	2,556	5,655
1440	5.57	24,389	11,321	5,112	6,209

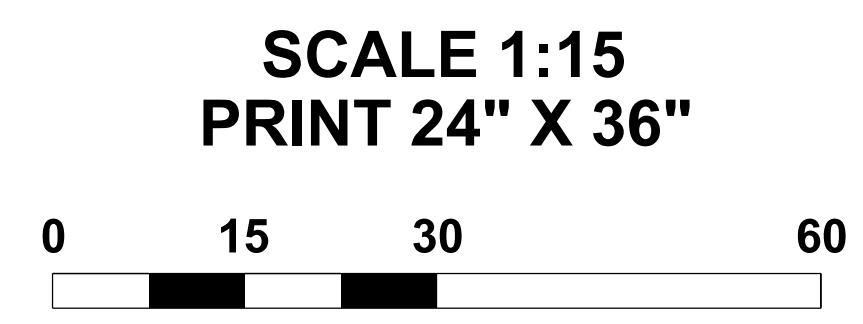
REQUIRED RETENTION (3-HR, 100YR) 4,767 cubic feet
 MAXIMUM PERCOLATION RATE 0.15 in/min

RETENTION

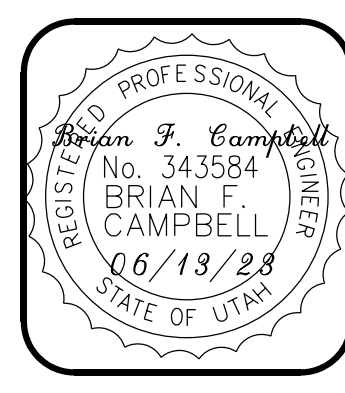
BASED ON A 3-HR 100 YEAR STORM
 TOTAL RETENTION REQ'D = 4,767 CF
 TOTAL DETENTION PROVIDED = 4,900 CF
 BUILDING = 0 S.F.
 IMPERVIOUS AREA = 25,530 S.F.
 PERVIOUS AREA = 9,415 S.F.
 TOTAL AREA = 34,945 S.F.

LEGEND

- ⊗ WATER VALVE & LINE
- ⊕ POWER POLE & LINE
- ⊙ SEWER MANHOLE & LINE
- ⊠ TELEPHONE PEDESTAL & LINE
- ⊙ STORM DRAIN MANHOLE & LINE
- ⊗ IRRIGATION VALVE & LINE
- ▨ INVERTED GUTTER PAN
- ▭ BUILDING
- NEW CONTOURS
- FENCE
- EXISTING CURB & GUTTER
- SIDEWALK
- TREE
- ⊕ FIRE HYDRANT



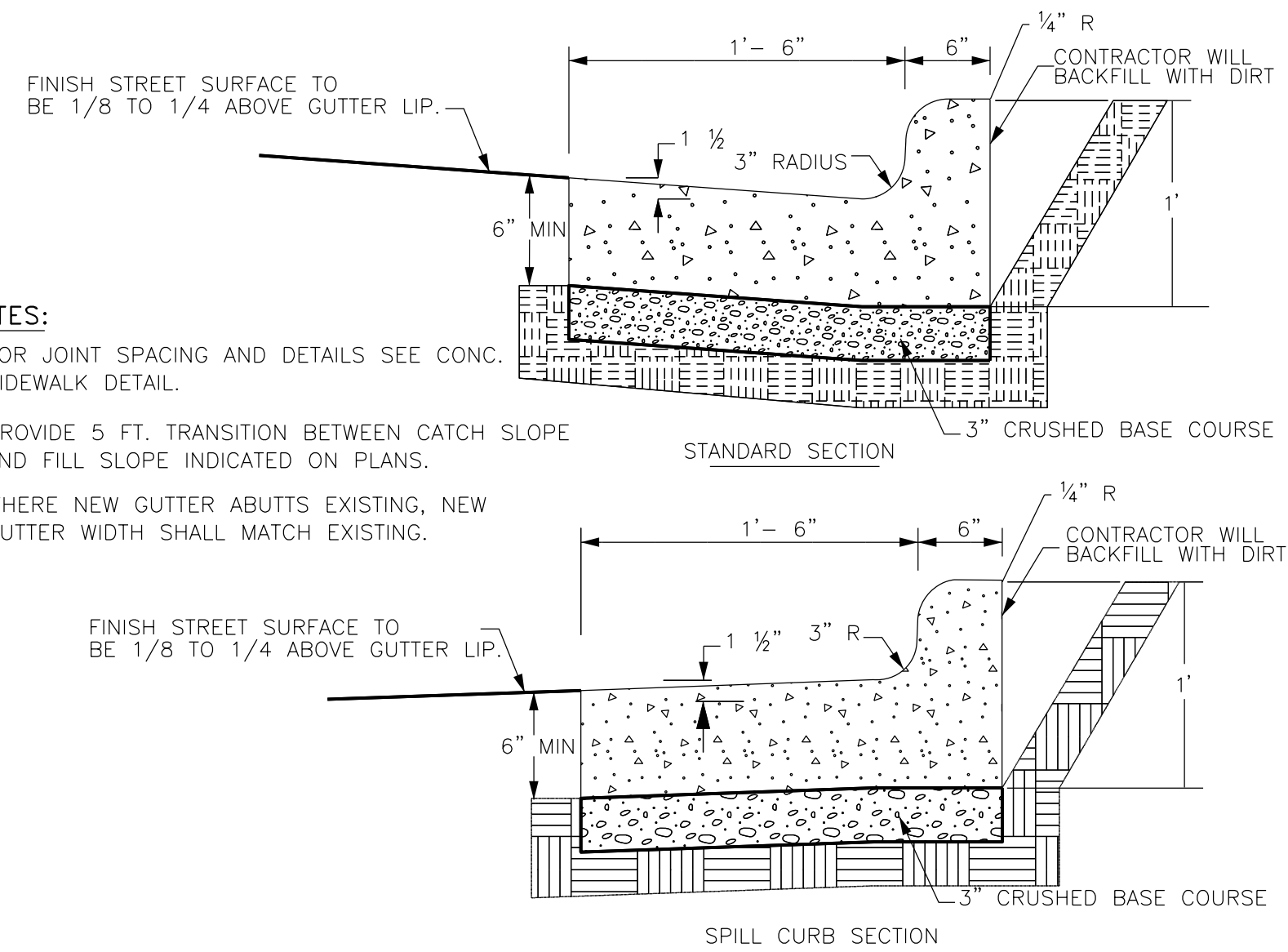
DATE	APPROVAL



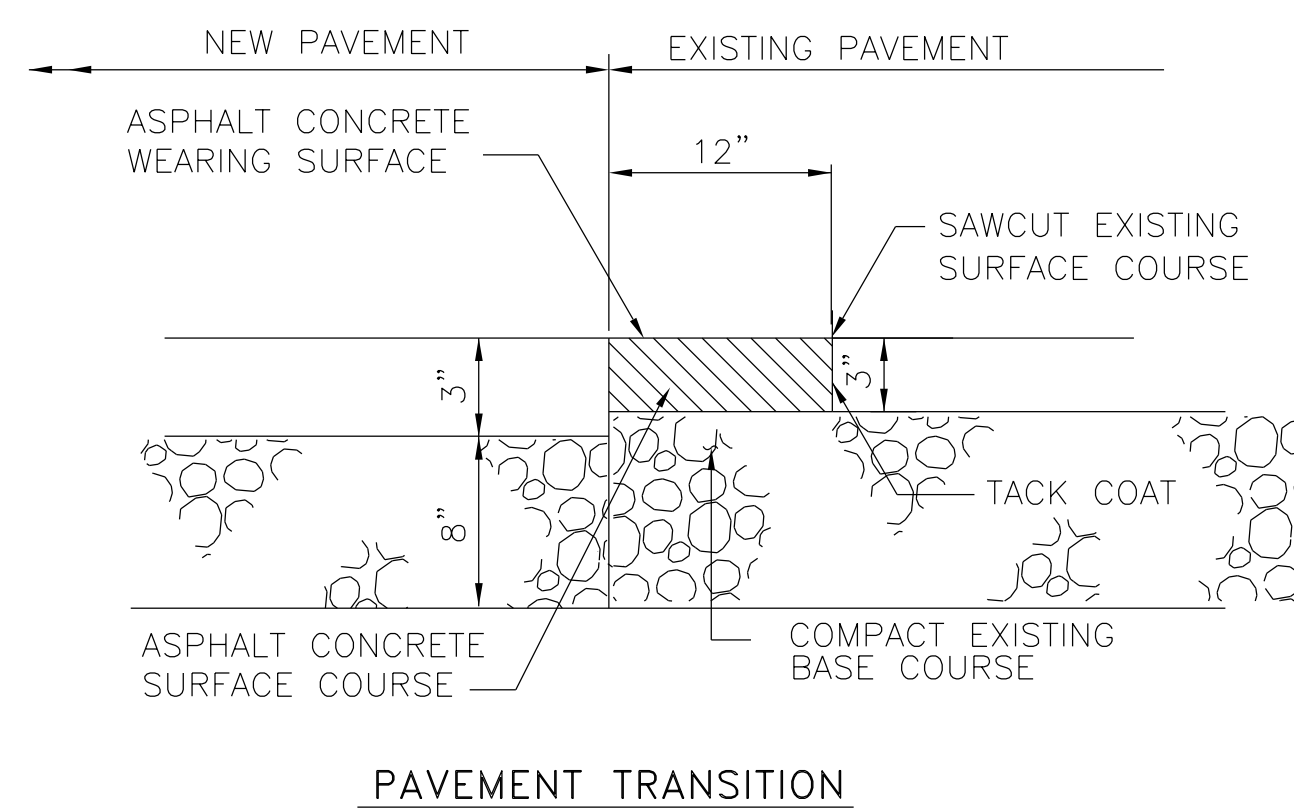
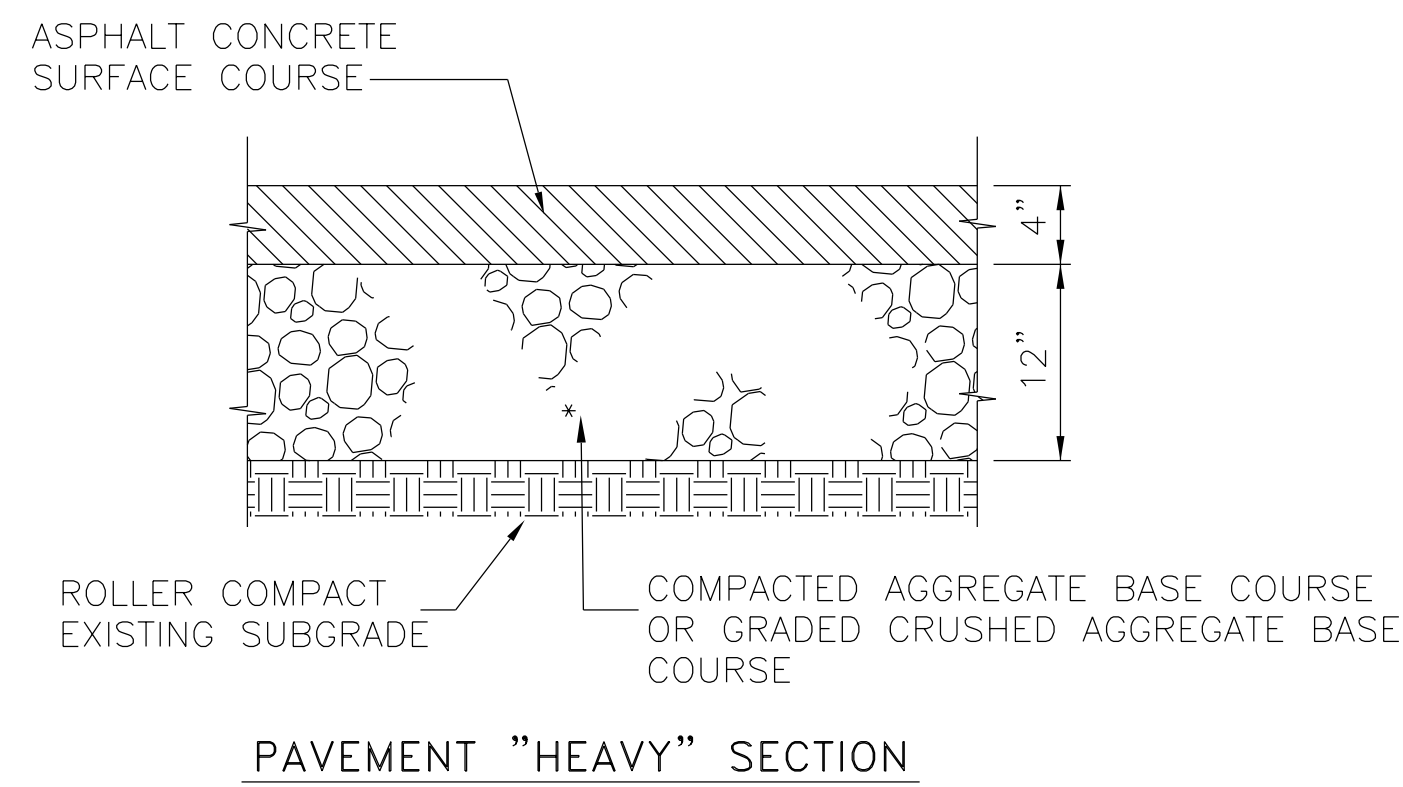
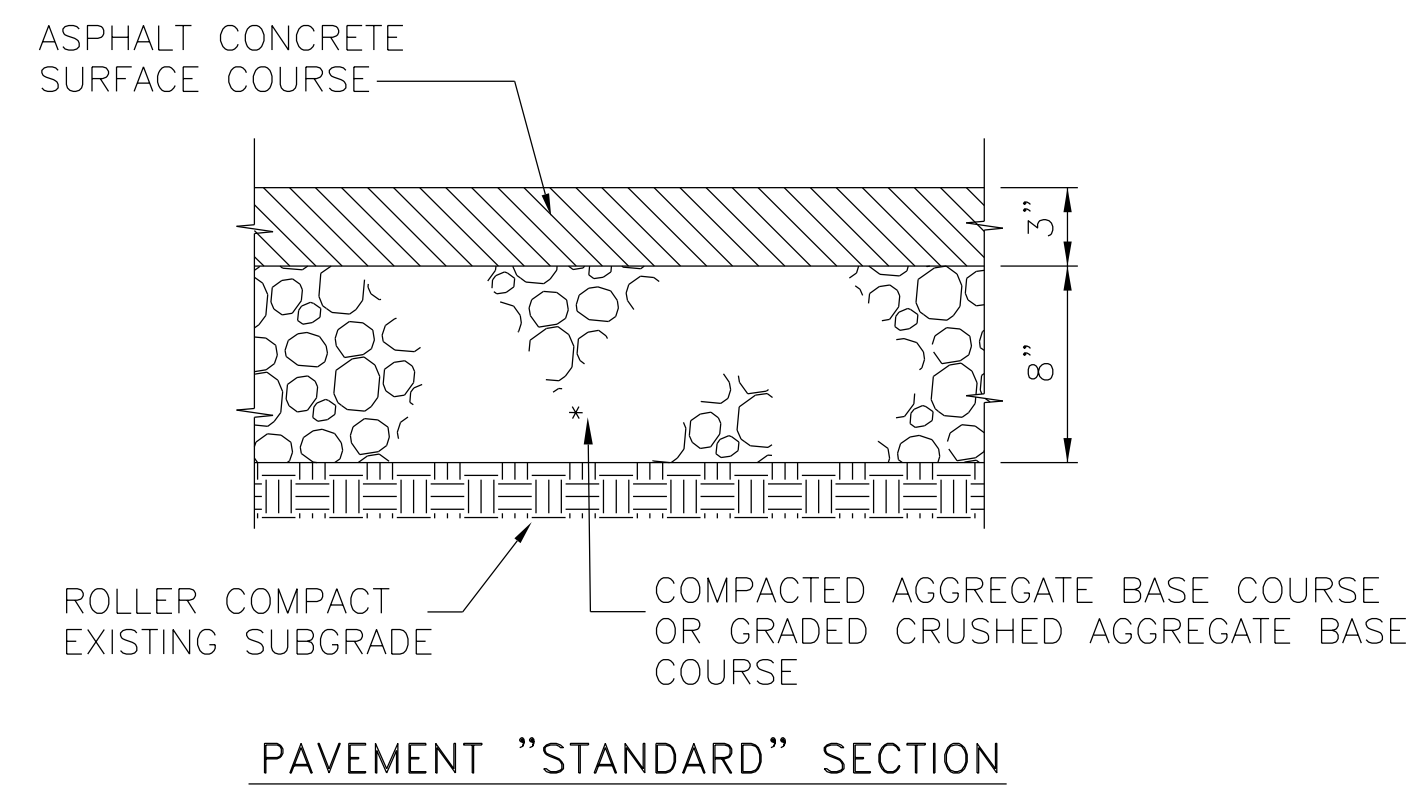
ESI ENGINEERING
 CONSULTING ENGINEERS
 AND LAND SURVEYORS
 4141 WEST 7400 SOUTH SUITE 100
 WEST VALLEY CITY, UT 84120
 801-263-7552 • FAX 801-263-1780

TRAILHEAD PARKING LOT
 NORTH OGDEN CITY
 2750 NORTH MOUNTAIN ROAD
 NORTH OGDEN, UT

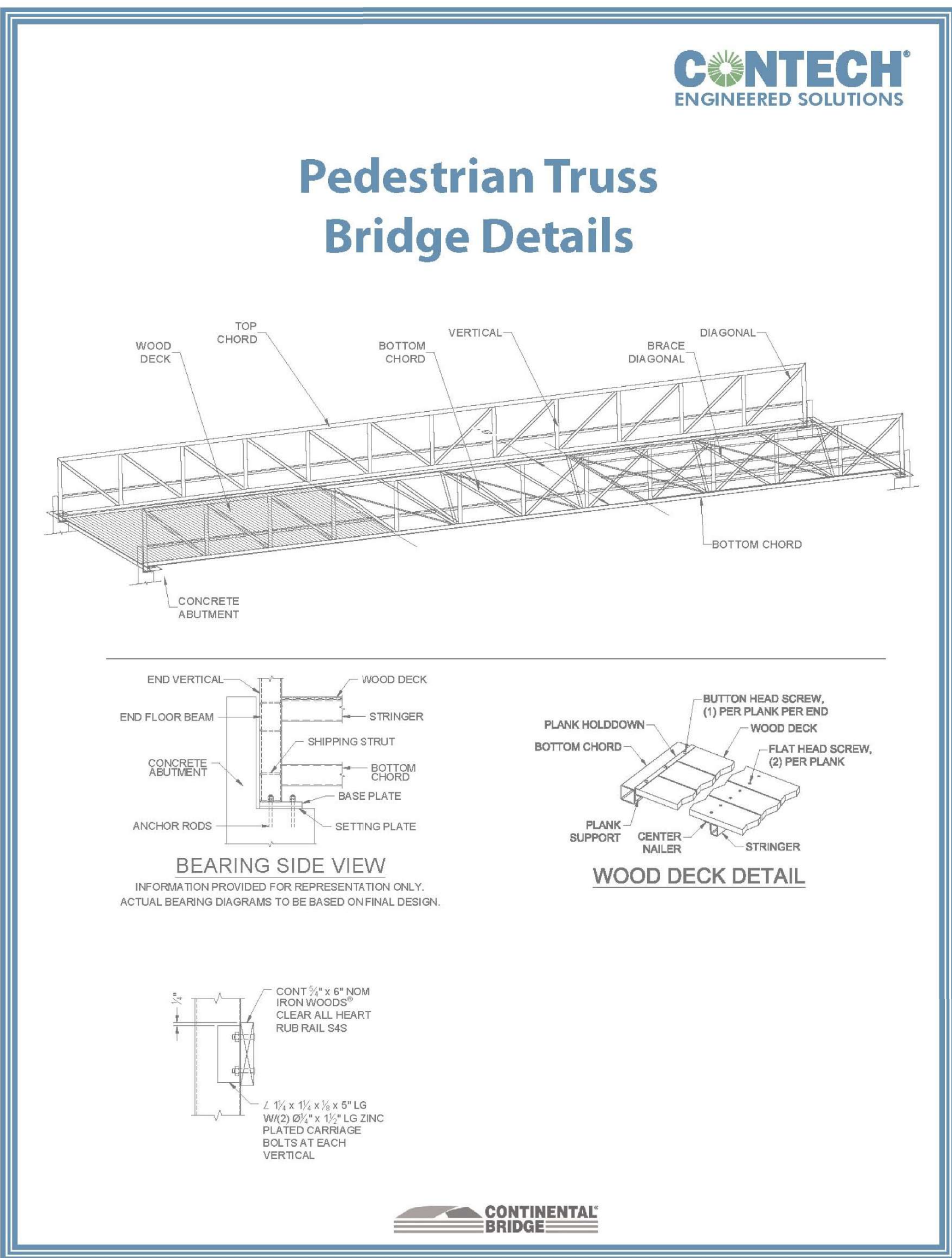
C-201
 GRADING PLAN
 PROJECT # 23-042



1 CURB & GUTTER
NO SCALE

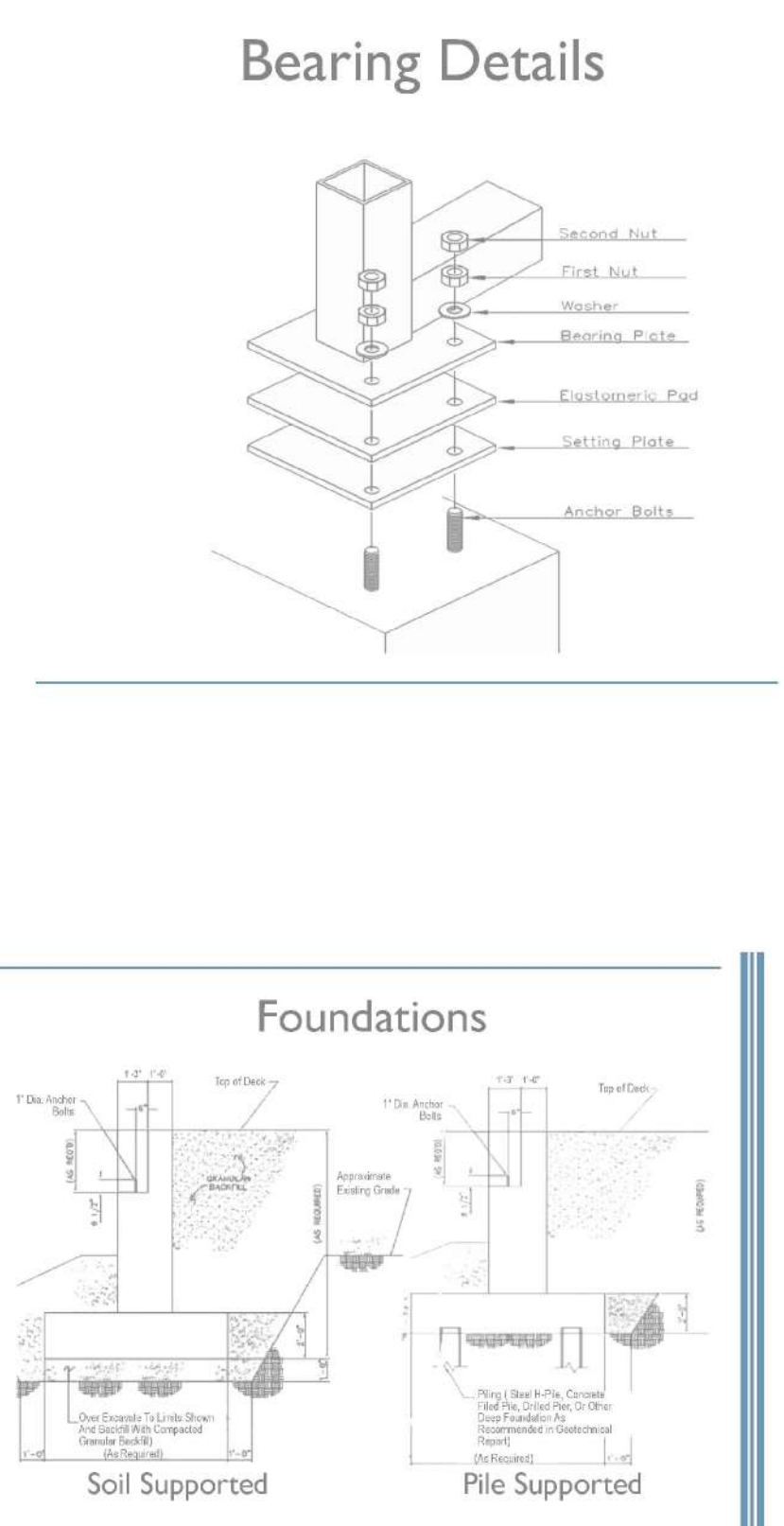


2 PAVEMENT SECTION
NO SCALE



- For Pedestrian Truss Bridges**
- Material & Finishes:**
- Steel Types Used (50 ksi material):**
- A588 Weathering or A847 (Pedestrian Only)
 - A500 Painted (Pedestrian Only)
 - A572 Painted (2 Coat and 3 Coat (Zinc Rich Primer) - Any Color)
 - A572 Galvanized (35-year Limited Warranty)
 - A325 Galvanized or Type 3 Weathering (Bolts Provided)
 - A307 Galvanized Anchor Bolts are Specified (By Contractor)
- Design Specifications:**
- AISC
 - AASHTO Standard Specifications for Highway Bridges
 - AASHTO Guide Specifications for Pedestrian Bridges
 - AAS D.I.1, D.I.5
- Manufacturing/Installation Specifications:**
- AISC Shop Certification
 - Fracture Critical Endorsement
 - Sophisticated Paint Endorsement
 - AAYS

3 CONTECH PEDESTRIAN BRIDGE (OR EQUAL)
NO SCALE



DATE	APPROVAL
DESCRIPTION	
ESI ENGINEERING CONSULTING ENGINEERS AND LAND SURVEYORS 4141 WEST 7400 SOUTH SUITE 100 WEST VALLEY CITY, UT 84120 801-263-1752 - FAX 801-263-1780	
DESIGNED BY: BFC	CHECKED BY: COP
DRAWN BY: MWP	
DATE: 06-07-2023	
TRAILHEAD PARKING LOT NORTH OGDEN CITY 2750 NORTH MOUNTAIN ROAD NORTH OGDEN, UT C-501 SITE DETAILS PROJECT # 23-042	