BIG O TIRES

LOT 2, PONY EXPRESS BUSINESS PARK SUBDIVISION 1ST AMENDMENT
PORTER CROSSING PKWY
EAGLE MOUNTAIN, UTAH

SEPTEMBER 17, 2021

LEGEND

PROPERTY LINE	EXISTING FIRE HYDRANT
EASEMENT LINE	PROPOSED FIRE HYDRANT
4240.0 PROPOSED GRADE CONTOURS	EXISTING STREET LIGHT
4240.0 EXISTING GRADE CONTOURS	PROPOSED STREET LIGHT
EXISTING CURB	PROPOSED PARKING LOT LIGHT
PROPOSED CURB AND GUTTER	
PROPOSED CURB WALL	EXISTING WATER METER
REVERSE PAN CURB & GUTTER	EXISTING WATER VALVE
EXISTING SEWER	EXISTING GATE VALVE
PROPOSED SEWER	EXISTING OVERHEAD POWER POLE
EXISTING WATER	TBC TOP BACK CONCRETE
PROPOSED WATER	FF FINISHED FLOOR
EXISTING FIRE LINE	HW HIGH WATER
PROPOSED FIRE LINE	TOG TOP OF GRATE
EXSITING STORM DRAIN	TOL TOP OF LID
PROPOSED STORM DRAIN	IE INVERT ELEVATION
PROPOSED ROOF DRAIN	EX EXISTING
EXISTING GAS	NG NATURAL GROUND
PROPOSED GAS	TA TOP OF ASPHALT
EXISTING OVERHEAD POWER	TC TOP OF CONCRETE
EXISTING UNDERGROUND POWER	EC EDGE OF CONCRETE
PROPOSED UNDERGROUND POWER	EA EDGE OF ASPHALT
EXISTING TELEPHONE LINE	TOW TOP OF WALL
PROPOSED TELEPHONE LINE	TG TOP OF GRAVEL
EXISTING FIBER OPTIC LINE	TL TOP OF LANDSCAPING
PROPOSED FIBER OPTIC LINE	TS TOP OF SIDEWALK
	PROP PROPOSED
PROPOSED CONCRETE	350 TBC CALLOUT UNLESS OTHERWISE DESIGNATED
PROPOSED ASPHALT	
PROPOSED LANDSCAPING	

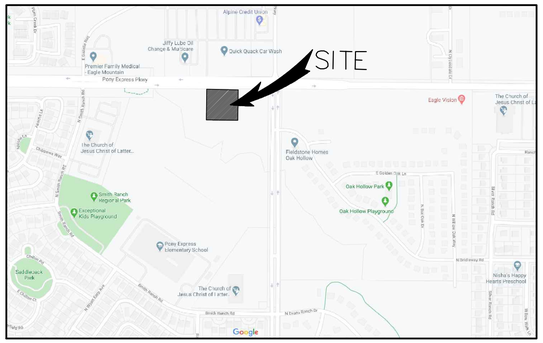
EAGLE MOUNTAIN CITY GENERAL NOTES FOR CONSTRUCTION DRAWINGS:

SEWER–
- PIPE BEDDING: ¾" GRAVEL REQUIRED 6" BELOW, ON THE SIDES, & 12" ABOVE THE PIPE (MINIMUM).
- DEPTH: SEWER MAIN/LATERALS TO MAINTAIN 4' OF COVER (MINIMUM) FROM FINISHED GRADE, 3' MINIMUM FROM TOP OF PIPE AT TIME OF INSTALLATION.
- SEPARATION: SEWER MAINS & LATERALS TO MAINTAIN 10' SEPARATION (MINIMUM) FROM CULINARY WATER AMINS & LATERALS.
- SEWER Y'S: 3' MINIMUM SEPARATION BETWEEN SEWER Y'S.
- LATERAL STUBS: A)STUBS MUST EXTEND 15' INTO PROPERTY AND BE MARKED WITH 2x4 PAINTED GREEN. B)ALL LATERALS MUST BE GIS (SHOT IN) AT THE Y'S AND STUBS. ALSO. SLOPES (2% MIN. ON 4" PIPE) TO BE CHECKED BEFORE BACKFILL.
- MANHOLES: MANHOLES TO BE WITHIN 1' OF FINISHED GRADE. 12" OF WHIRLY GIG FORM (MAX) AND NO FLAT RINGS ALLOWED. 12" OF ¾" GRAVEL REQUIRED UNDER MANHOLES/BOXES.

STORM DRAIN–
- BEDDING: ¾" GRAVEL 6" BELOW AND ON SIDES OF PIPE & 12" ABOVE PIPE (MINIMUM).
- ADS: ALL ADS PIPE TO BE "HP" BRAND.
- COLLARS: COLLARS TO BE 1'x1' AROUND PIPE, 4000 PSI CONCRETE, INSPECTION IS NEEDED PRE & POST COLLAR POUR.
- MANHOLES: MANHOLES TO BE WITHIN 1' OF FINISHED GRADE. 12" OF WHIRLY GIG FORM (MAX) AND NO FLAT RINGS ALLOWED. 12" OF ¾" GRAVEL REQUIRED UNDER MANHOLES/BOXES.

ROAD SECTION–
- PROOF ROLLS: PROOF ROLL REQUIRED ON ALL SECTIONS OF ROAD: I.E. SUB-GRADE, SUB-BASE, AND CURB BASE AND ROAD BASE. CURB STAKES REQUIRED FOR SUB-GRADE INSPECTION AND STRIN LINE REQUIRED FOR SUB-BASE AND ROAD BASE INSPECTION.
- UTBC: STATE SPEC. ROAD BASE REQUIRED FOR ALL ROADS, COMMERCIAL BASE ACCEPTABLE FOR THE SIDEWALKS & TRAILS.
- COLLARDS: ALL COLLARS TO BE 1' WIDE BY 1' DEEP WITH A 6000 PSI CONCRETE WITH 1.5# FIBER MESH PER CUBIC YARD (¾" MONOFILAMENT) REQUIRED FOR ALL STREET COLLARS. MANHOLE COVERS AND WATER VALVE TOWERS TO BE ½" DOWN FROM ASPHALT EDGE AND CONCRETE TO BE ¼" TO ⅜" DOWN FROM ASPHALT EDGE.

WATER–
- VALVES: 1. VALVES MUST BE FLANGED TO TEE'S (FITTINGS). 2. VALVES 12" AND LARGER TO BE BUTTERFLY VALVES.
- BEDDING: SAND MUST MEET AASHTO (A-3) GRADATION WITH 100% PASSING THE #4 SIEVE. 6" BELOW PIPE ON THE SIDES & 12" ABOVE PIPE (MINIMUM).
- DEPTH: WATER MAIN & LATERALS MUST MAINTAIN 4' COVER FROM FINISHED GRADE (MINIMUM), 3' MINIMUM FROM TOP OF PIPE AT TIME OF INSTALLATION. MAX DEPTH 72" FROM FINISHED GRADE.
- SERVICES & FITTINGS: SERVICES & FITTINGS TO MAINTAIN 3' MINIMUM SEPARATION FROM PIPE JOINTS AND OTHER FITTINGS.
- SETTERS: ALL SETTERS TO BE 21" TALL (MINIMUM), HAVE UNIONS AT THE BASE AND BE DUAL CHECK MODEL, ALSO ¾" SETTERS TO HAVE DOUBLE BRACES. SETTERS TO BE SET AT: 18" TO 22" FROM THE TOP OF SETTER TO TOP OF LID. 21" INSIDE DIAMETER CAN HDPE.
- WATER CAN LID: ALL LIDS TO SAY "EAGLE MOUNTAIN" ON THEM RECESSED WITH A HOLE FOR THE ERT AND TO BE SET AT LEVEL TO 1" ABOVE THE PLANE OF THE CURB & SIDEWALK.
- WATER CAN: THE WATER CAN FOR ¾" & 1" SERVICES WILL NEED TO BE A 21" MINIMUM INSIDE DIAMETER. WATER CAN FOR 1-1/2" TO 2" SERVICE WILL NEED FOLLOW APWA SPECIFICATION.
- HYDRANT: HYDRANTS TO BE 5' BURY MINIMUM.
- LATERALS: ALL LATERALS NEED TO BE GIS (SHOT IN) AT THE CORP. STOP & SETTER, AND ALSO VISUAL INSPECTION ON POLY INSERTS BEFORE BACKFILL. WATER LATERALS TO EXTEND 15' INTO PROPERTY AND BE MARKED WITH A 2x4 PAINTED BLUE. ALL POLY LINES TO HAVE VISUAL POLY INSERT INSPECTION.
- TRACER WIRE: RUN TRACER WIRE ALONG MAIN & EXTEND UP SETTERS AND HYDRANTS, DO NOT RUN UP VALVE BOXES.
- WATER FITTINGS: ALL WATER FITTINGS TO BE CHECKED FOR THRUST BLOCKS (PRE & POST) AND GIS (SHOT IN) BEFORE BACKFILL.
- VERTICAL SEPARATION: WATER MAIN TO MAINTAIN 18" MINIMUM SEPARATION FROM STORM DRAIN OR OTHER OBSTACLES/UTILITIES.
- WATER LINE FITTINGS: ALL FITTINGS TO HAVE MEGA LUG FOLLOWERS.
- WATER MAIN LINE: NO DEFLECTION OR BENDING OF PIPE WILL BE ALLOWED IN THE WATER LINES AND BENC FITTINGS WILL BE REQUIRED. ALL FITTINGS TO BE MEGA-LUG FITTINGS.



VICINITY MAP
NOT TO SCALE

SHEET INDEX

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C2.1	DRAINAGE PLAN
C3.0	UTILITY PLAN
C4.0	DETAIL SHEET
C4.1	DETAIL SHEET
C5.0	EROSION CONTROL PLAN (SWPPP)

PROJECT CONSTRUCTION NOTES:

1. CONTRACTOR TO NOTIFY BLUE STAKES PRIOR TO CONSTRUCTION, 1-800-662-4111.
2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. SEE SOILS REPORT FOR PAVEMENT SECTION DETAILS, INSTALLATION SPECIFICATIONS AND ALL SITE EARTHWORK REQUIRMENTS.
4. ALL CONSTRUCTION SHALL CONFORM TO CITY STANDARDS AND SPECIFICATIONS. IF A CONFLICT BETWEEN THESE PLANS AND THE CITY STANDARDS AND SPECIFICATIONS OCCURS, THE CITY STANDARDS AND SPECIFICATIONS SHALL GOVERN.
5. ALL HANDICAP PARKING STALLS TO BE INSTALLED PER ADA STANDARDS. SLOPE ON ANY ADA STALL IS TO BE LESS THAN 2% IN ALL DIRECTIONS.
6. CONTRACTOR TO VERIFY PRIOR TO ANY CONSTRUCTION THAT THE BUILDING AND BUILDING LOCATION SHOWN ON CIVIL DRAWINGS MATCHES THE ARCHITECTURAL PLANS.
7. CONTRACTOR TO VERIFY, WITH ARCHITECT, THAT F.F. ELEVATION SHOWN ON CIVIL PLANS EQUALS THE ARCHITECTS 100.0' ELEVATION.
8. CONTRACTOR TO REPLACE IN KIND ANY AREAS THAT ARE DAMAGED DURING CONSTRUCTION.
9. INSTALL ALL SIDEWALKS PER CITY STANDARDS OR APWA PLAN NO. 231, 235, AND 236 WHERE APPLICABLE.
10. INSTALL ALL CONCRETE PAVEMENT JOINTS PER CITY STANDARDS OR APWA PLAN NO. 261.
11. ALL SEWER, WATER AND STORM DRAIN PIPES SHALL BE BACKFILLED WITH SELECT GRANULAR FILL PER APWA STANDARDS AND SPECIFICATIONS.
12. ALL CATCH BASINS AND MANHOLES TO BE INSTALLED PER CITY STANDARDS.
13. ALL STORM DRAIN PIPING TO BE CUT OFF FLUSH WITH INSIDE WALL OF DRAINAGE BOX. INSIDE WALL TO BE GROUTED SMOOTH WITH A NON-SHRINK GROUT.
14. FOR STORM DRAIN INLET BOXES AND MANHOLES THE I.E. IN AND I.E. OUT ELEVATIONS ARE THE SAME UNLESS OTHERWISE CALLED OUT ON THE PLANS
15. ALL WATER LINES TO HAVE A MINIMUM 5' OF COVER WITH A MINIMUM VERTICAL CLEARANCE OF 1' OF COVER BETWEEN OTHER UTILITY LINES (1.5' VERTICAL SEPARATION WITH SEWER).
16. THRUST BLOCKS TO BE INSTALLED PER APWA PLAN NO'S 561 AND 562. SEE DETAIL SHEET C5.
17. CONTRACTOR SHALL COORDINATE CONSTRUCTION AND INSTALLATION OF ELECTRICAL, TELEPHONE, NATURAL GAS AND CABLE TV SERVICES WITH THE RESPECTIVE UTILITY COMPANY.
18. THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITY PIPES, LINES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED AND SHOWN FROM SURVEYED INFORMATION AND EXISTING UTILITY LOCATIONS PROVIDED BY OTHERS. THERE IS NO GUARANTEE THAT ALL EXISTING UTILITY INFORMATION IS SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE FOR CONTACTING BLUE STAKES AND FIELD VERIFYING THE LOCATION AND ELEVATION OF ALL EXISTING UTILITY PIPES, LINES AND STRUCTURES, PRIOR TO CONSTRUCTION.
19. ANY OFF SITE DAMAGE TO EXISTING ASPHALT, CURB & GUTTER, LANDSCAPING AND ALL UTILITIES TO BE REPLACED IN KIND.
20. PUBLIC WAY IMPROVEMENTS SUCH AS EXISTING CURB, GUTTER, SIDEWALK AND DRIVE APPROACHES REQUIRE INSPECTION BY THE SLC ENGINEERING DEPT. PRIOR TO FINAL INSPECTION AND CERTIFICATION OF OCCUPANCY ISSUANCE, TO DETERMINE REPLACEMENT REQUIREMENTS OF DEFECTIVE AND HAZARDOUS CONDITIONS.
21. ALL CURB AND GUTTER DONE WITHIN THE PUBLIC WAY SHALL BE CONSTRUCTED AS PER APWA 205A, AND 251 OR 252.
22. THE DRIVE APPROACHES APRONS MUST BE CONCRETE TO THE PROPERTY LINE.
23. ALL ACCESSIBLE ROUTES AND ACCESSIBLE MEANS OF EGRESS ROUTES, THE MAXIMUM SLOPE SHALL NOT EXCEED 5% AND THE CROSS SLOPE SHALL NOT EXCEED 2%. ALL EXTERIOR LANDINGS AT DOORS SHALL NOT EXCEED 2% SLOPE.

FIRE DEPARTMENT NOTES:
1. FIRE HYDRANTS SHALL BE EQUIPPED WITH ONE 4½", AND 2½" OUTLETS, WHICH HAS NATIONAL STANDARD THREADS (NST).
2. FIRE HYDRANTS SHALL BE INSTALLED SO THAT THE CENTER LINE OF THE LOWEST CAP, NUT SHALL NOT BE CLOSER THAN 18" FROM THE FINISHED GRADE.
3. FIRE HYDRANTS SHALL HAVE THE 4½" BUTT FACING THE FIRE ACCESS ROADWAY.
4. UNDERGROUND PIPING SHALL BE TESTED AT 200 PSIA FOR TWO HOURS. TEST CERTIFICATE SHALL BE PROVIDED TO FIRE DEPARTMENT OFFICE.
5. BURNING OF TRASH, SCRAP WOOD OR OTHER MATERIALS IS A VIOLATION OF CITY ORDINANCE.
6. A 3 FOOT CLEARANCE SHALL BE MAINTAINED AT ALL TIMES AROUND FIRE EQUIPMENT TO INCLUDE BUT NOT LIMITED TO HYDRANTS, FIRE DEPARTMENT CONNECTIONS AND FIRE SUPPRESSION CONTROL VALVES.
7. NEW FIRE HYDRANTS SHALL BE COLOR CODED AND BE DIRECTED BY PUBLIC UTILITIES AS TO THE COLOR AND SHADE OF THE HYDRANT BONNET.
8. FIRE HYDRANTS SHALL BE EQUIPPED WITH AN INDEPENDENT LATERAL CONTROL VALVE PLACED AT THE BASE INLET OF THE FIRE HYDRANT.
9. FIRE DEPARTMENT ACCESS ROADS AND FIRE HYDRANTS SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF THE FOOTINGS AND FOUNDATIONS OF ANY STRUCTURE. FIRE HYDRANTS SHALL BE ACCESSIBLE, OPERATIONAL AND MAINTAINED IN THAT CAPACITY.
10. WATER LATERALS WHICH ARE 16 FOOT IN LENGTH OR LONGER SHALL BE PROVIDED WITH CONTROL VALVES AT THE TAP OF THE WATER MAIN AND AT THE FIRE HYDRANT.
11. WATER LATERALS WHICH SUPPLY WATER BASED FIRE PROTECTION SHALL BE FERROUS PIPE WHEN PASSING UNDER OR THROUGH FOOTINGS OR FOUNDATION WALLS.

CIVIL ENGINEER:
CIR | CIVIL ENGINEERING + SURVEYING

ARCHITECT:
AE URBIA
909 W. SOUTH JORDAN PARKWAY
SOUTH JORDAN, UTAH 84095
CONTACT PERSON: GARRETT MACKLIN
PH: (801) 746-0456

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3032 SOUTH 1030 WEST, SUITE 202
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NO.	REVISIONS	BY	DATE
DESIGNER: TLH	PROJECT ENGINEER: TLH		

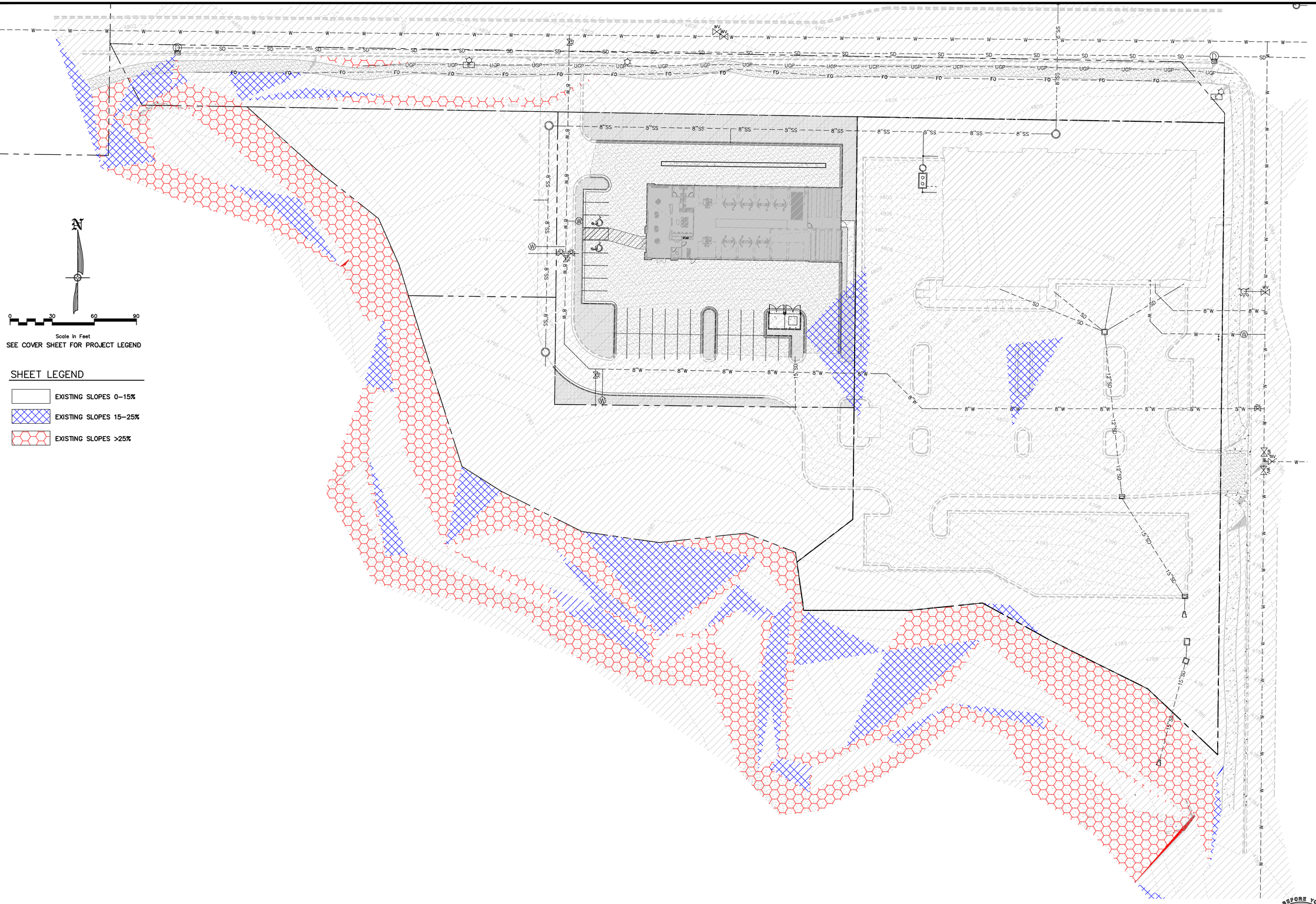
BIG O TIRES
PORTER CROSSING PKWY, EAGLE MOUNTAIN, UTAH
COVER SHEET

PROFESSIONAL ENGINEER
No. 12072623
TREVOR L HODGSON
STATE OF UTAH

CALL BEFORE YOU DIG
BLUE STAKES 1-800-662-4111

SHEET NO.
CV

PROJECT ID	DATE:
S1070-02	09/17/21
FILE NAME: PRJ-TEM2	SCALE:



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PROJECT ENGINEER: TLH

BIG O TIRES

PORTER CROSSING PKWY, EAGLE MOUNTAIN, UTAH

SLOPE ANALYSIS MAP

PROFESSIONAL ENGINEER
No. 12072623
TREVOR L HODGSON
STATE OF UTAH

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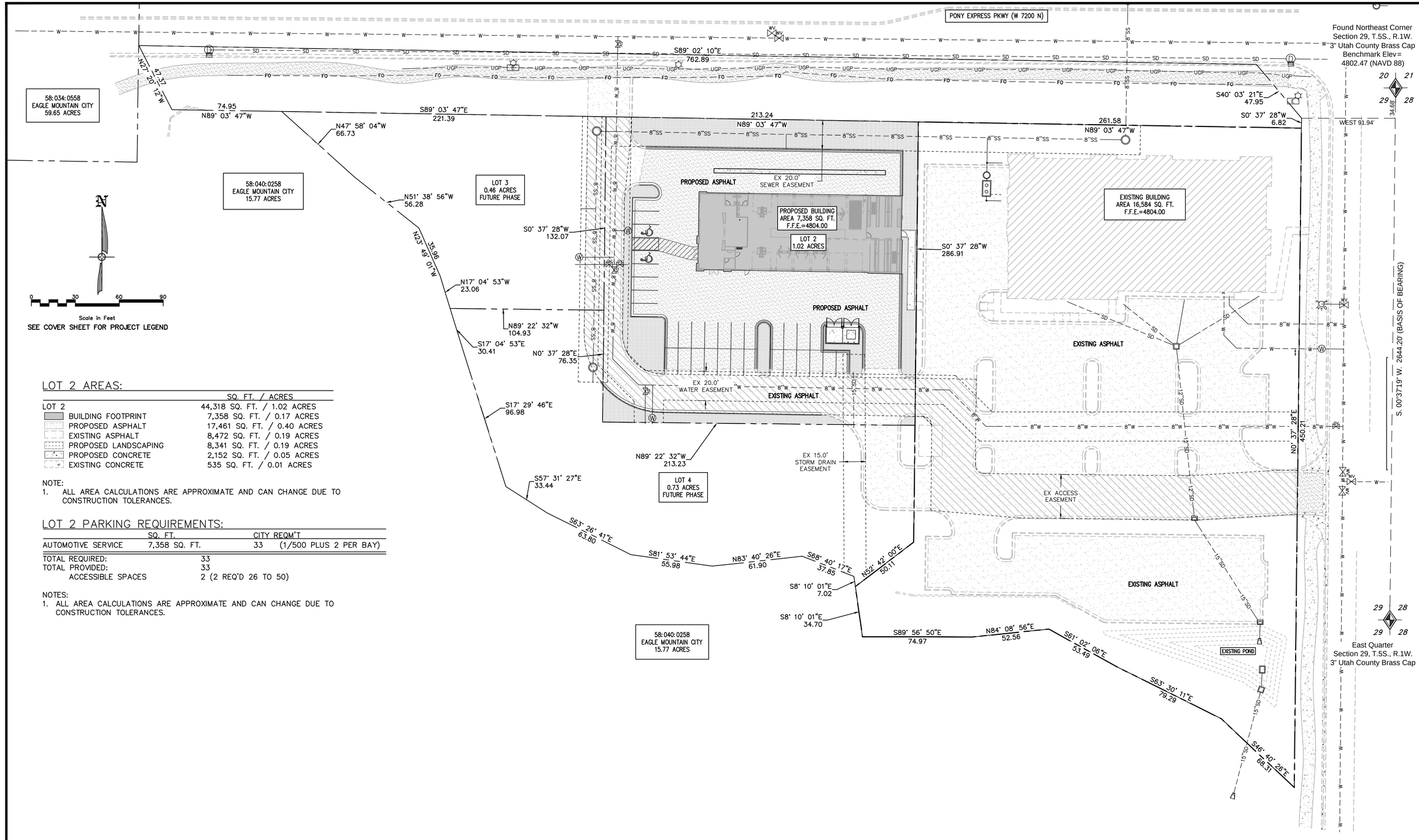
SHEET NO.
C0.1

PROJECT ID	DATE:
S1070-02	09/17/21
FILE NAME: PRJ-TEM2	SCALE: 1"=30'



SEE COVER SHEET FOR PROJECT LEGEND

LOT 2 AREAS:

	SQ. FT. / ACRES
LOT 2	44,318 SQ. FT. / 1.02 ACRES
BUILDING FOOTPRINT	7,358 SQ. FT. / 0.17 ACRES
PROPOSED ASPHALT	17,461 SQ. FT. / 0.40 ACRES
EXISTING ASPHALT	8,472 SQ. FT. / 0.19 ACRES
PROPOSED LANDSCAPING	8,341 SQ. FT. / 0.19 ACRES
PROPOSED CONCRETE	2,152 SQ. FT. / 0.05 ACRES
EXISTING CONCRETE	535 SQ. FT. / 0.01 ACRES

NOTE:
1. ALL AREA CALCULATIONS ARE APPROXIMATE AND CAN CHANGE DUE TO CONSTRUCTION TOLERANCES.

LOT 2 PARKING REQUIREMENTS:

	SQ. FT.	CITY REQM'T
AUTOMOTIVE SERVICE	7,358 SQ. FT.	33 (1/500 PLUS 2 PER BAY)
TOTAL REQUIRED:		33
TOTAL PROVIDED:		33
ACCESSIBLE SPACES		2 (2 REQ'D 26 TO 50)

NOTES:
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PORTER CROSSING PKWY, EAGLE MOUNTAIN, UTAH

OVERALL SITE PLAN

PROFESSIONAL ENGINEER
No. 12072623
TREVOR L HODGSON
STATE OF UTAH

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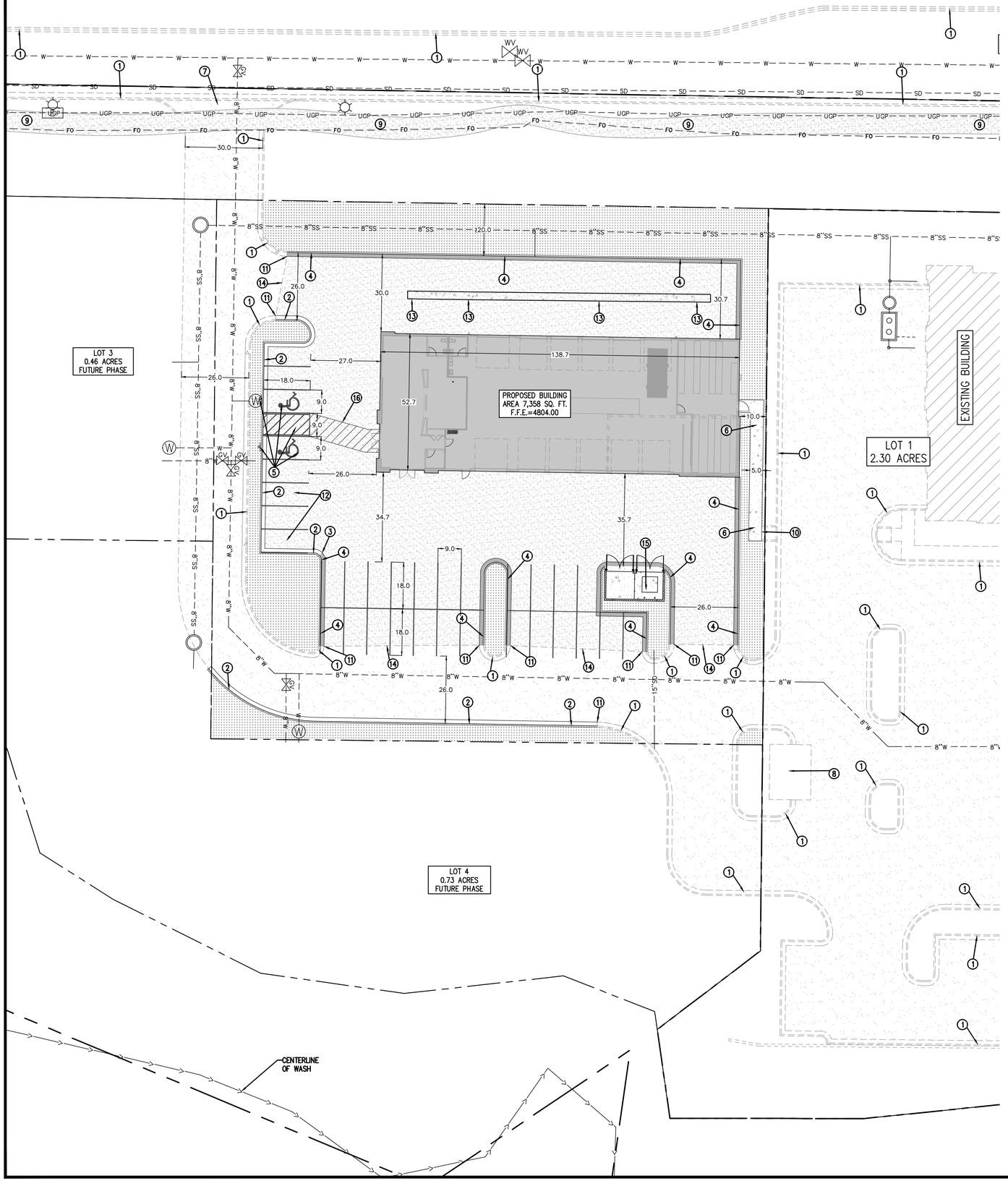
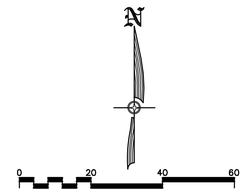
SHEET NO.	
C1.0	
PROJECT ID: S1070-02	DATE: 09/17/21
FILE NAME: PRJ-TEM2	SCALE: 1"=30'





SEE COVER SHEET FOR PROJECT LEGEND

SITE PLAN NOTES:

1. EXISTING CURB & GUTTER.
2. PROPOSED 24" CURB & GUTTER. SEE DETAIL 1/C4.0.
3. PROVIDE SMOOTH TRANSITION FROM CURB & GUTTER TO REV. PAN CURB & GUTTER.
4. PROPOSED 24" REV PAN CURB & GUTTER. SEE DETAIL 2/C4.0.
5. PROPOSED ADA PARKING STALL AND ADA PARKING SIGN. ALL ADA STALLS SHALL HAVE SLOPES OF LESS THAN 2% IN ALL DIRECTIONS. SEE DETAIL 8/C4.0 & 9/C4.0.
6. PROPOSED 5' WIDE CONCRETE SIDEWALK. TANGENTIAL SLOPE NOT TO EXCEED 5%. CROSS SLOPE NOT TO EXCEED 2%.
7. EXISTING DRIVE APPROACH.
8. EXISTING TRASH ENCLOSURE.
9. EXISTING SIDEWALK, TO REMAIN.
10. MATCH PROPOSED SIDEWALK TO EXISTING ADA RAMP.
11. MATCH PROPOSED CURB & GUTTER TO EXISTING CURB & GUTTER.
12. PROPOSED SNOW STORAGE LOCATION.
13. INSTALL 3' WIDE ROLL GUTTER. SEE DETAIL 10/C4.0.
14. SAWCUT EXISTING ASPHALT TO PROVIDE A SMOOTH EDGE FOR PROPOSED ASPHALT TO MATCH INTO.
15. PROPOSED DUMPSTER LOCATION. SEE ARCHITECTURAL PLANS FOR DETAILS.
16. PROPOSED PAINTED PEDESTRIAN WALKWAY.

NO.	REVISIONS	BY	DATE
DESIGNER: TLH		PROJECT ENGINEER: TLH	

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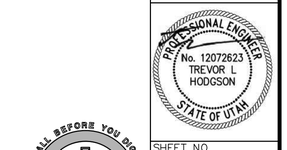
BIG O TIRES

PORTER CROSSING PKWY, EAGLE MOUNTAIN, UTAH

SITE PLAN



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SHEET NO.	
C1.1	
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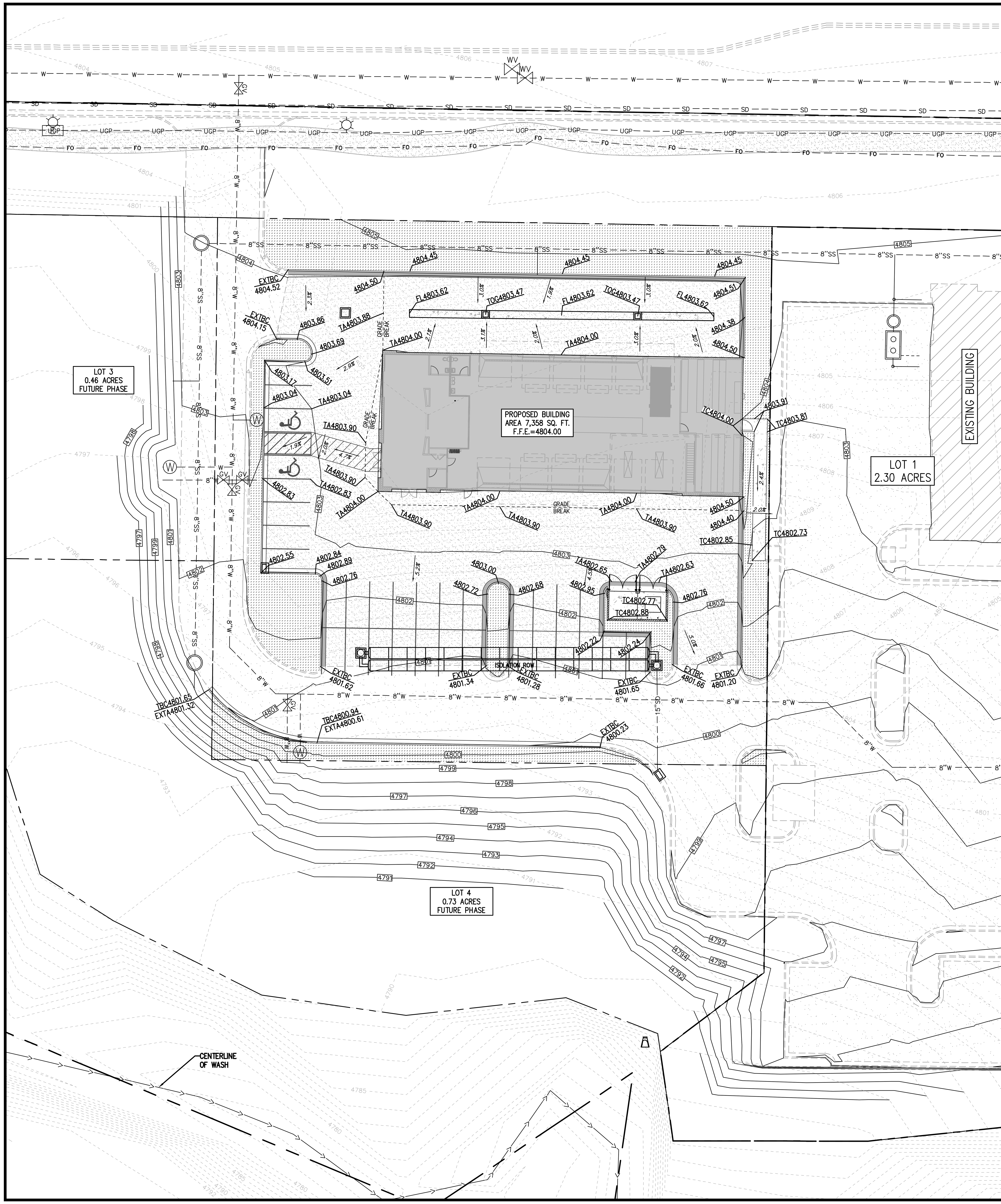
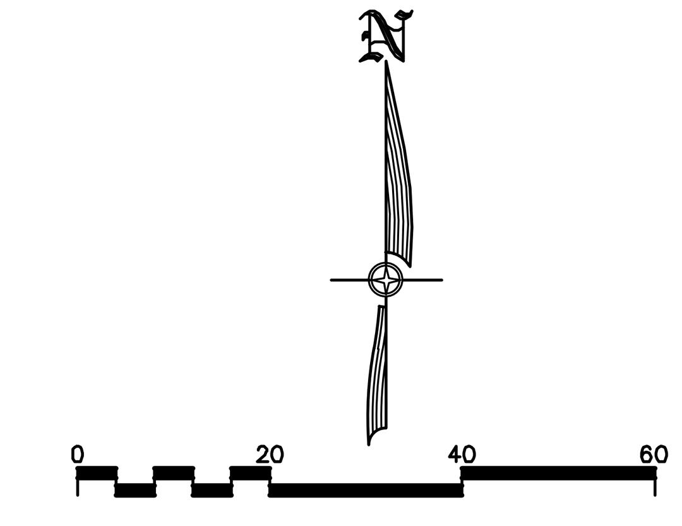
FILE NAME: PRJ-TEM2	SCALE: 1"=20'





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PROJECT ENGINEER: TLH

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SLC, Utah 84119 – 801-949-6296

BIG O TIRES

PORTER CROSSING PKWY, EAGLE MOUNTAIN, UTAH

GRADING PLAN

PROFESSIONAL ENGINEER
No. 12072623
TREVOR L
HODGSON
STATE OF UTAH

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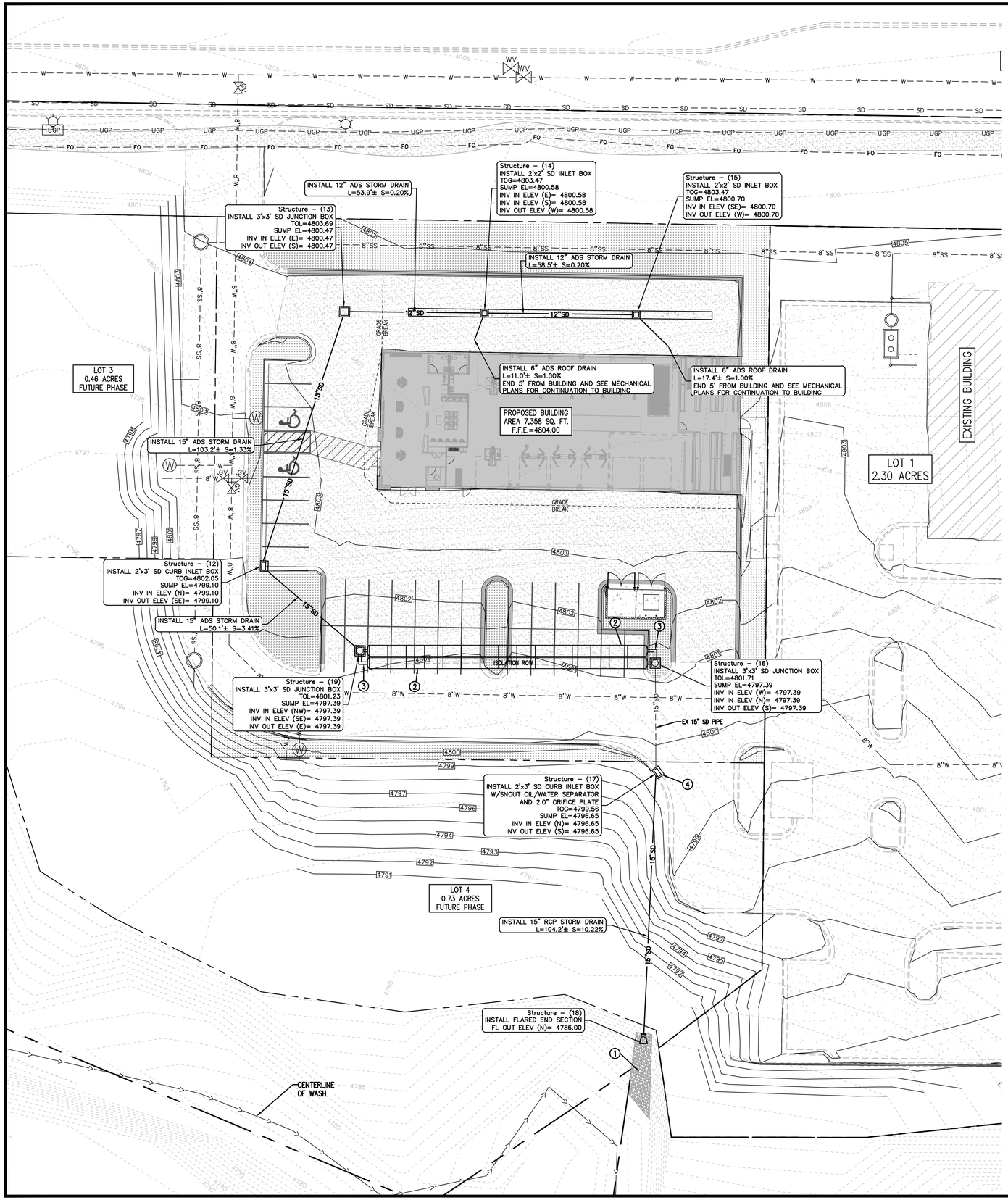
SHEET NO.
C2.0

PROJECT ID	DATE:
S1070-02	09/17/21
FILE NAME:	SCALE:
PRJ-TEM2	1"=20'



DRAINAGE CALCULATION SUMMARY:

DESIGN STORM	=	100-YEAR, 24-HR
DETENTION VOLUME REQURIED	=	2,309 CU. FT.
DETENTION VOLUME PROVIDED	=	2,309 CU. FT.
RELEASE RATE	=	0.20 CFS (0.20 CFS/ACRE)
ORIFICE SIZE/ELEVATION	=	2.0" AT 4796.65
PRE-TREATMENT DEVICE	=	18F BMP SNOUT OIL/WATER SEPARATOR

N

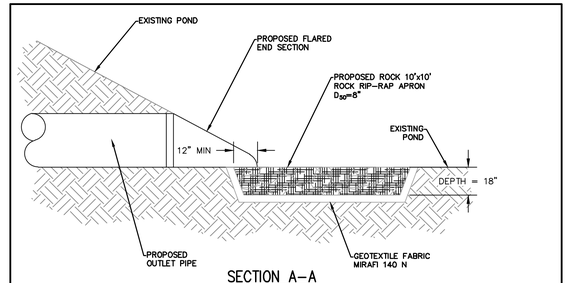
0 20 40 60

Scale in Feet

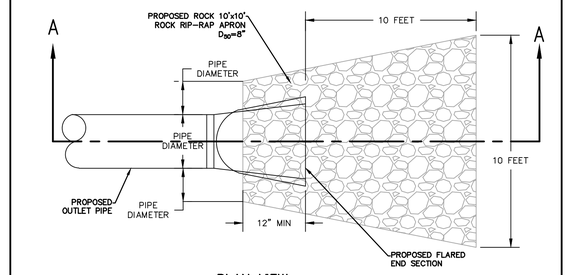
SEE COVER SHEET FOR PROJECT LEGEND

DRAINAGE PLAN NOTES:

1. INSTALL RIP-RAP EROSION PROTECTION. D50=8" SEE DETAIL 1/THIS SHEET.
2. INSTALL STORMTECH SC-740 SUBSURFACE STORMWATER MANAGEMENT SYSTEM. INSTALLATION TO BE DONE PER MANUFACTURER SPECIFICATIONS. BOTTOM OF CHAMBERS TO BE SET AT ELEVATION 4797.39. CONTRACTOR TO INSTALL 2 LEGS OF 15 CHAMBERS EACH. TOTAL CHAMBERS TO BE 28. SEE DETAIL SHEET C4.1.
3. INSTALL 12" TEES (TYP.).
4. CUT EXISTING 15" STORM DRAIN PIPE AND CONNECT PROPOSED CURB INLET BOX AT I.E.=4796.65.



SECTION A-A



PLAN VIEW

1 ROCK RIP-RAP DETAIL
N.T.S.

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DESIGNER: TLH
PROJECT ENGINEER: TLH

BIG O TIRES

PORTER CROSSING PKWY, EAGLE MOUNTAIN, UTAH

DRAINAGE PLAN

PROFESSIONAL ENGINEER
No. 12072623
TREVOR L HODGSON
STATE OF UTAH

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SHEET NO.
C2.1

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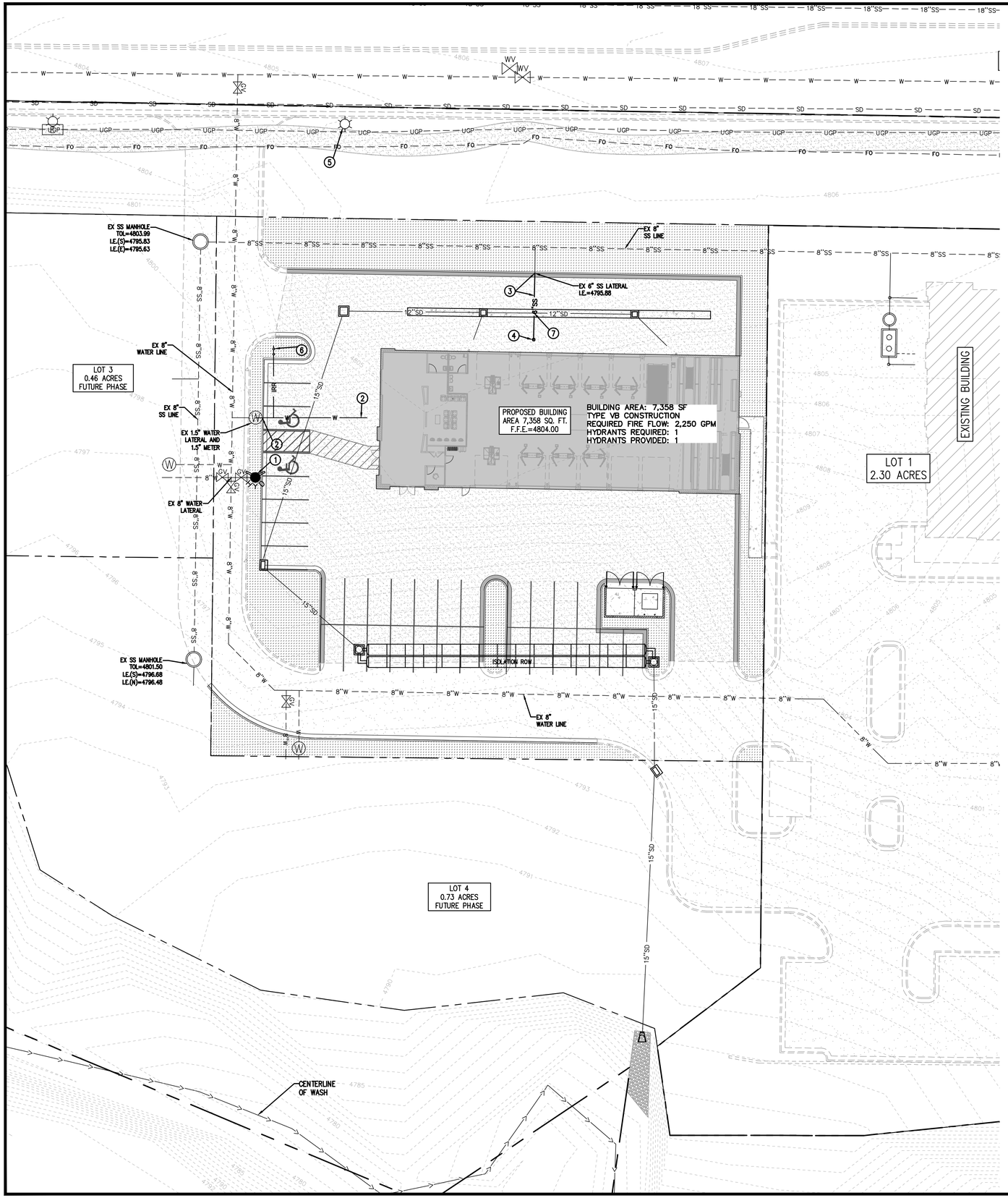
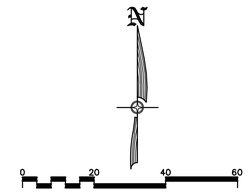
FILE NAME: PRJ-TEM2	SCALE: 1"=20'





Scale in Feet

SEE COVER SHEET FOR PROJECT LEGEND

1. CONNECT EXISTING 8" WATER LATERAL AND INSTALL FIRE HYDRANT PER EAGLE MOUNTAIN STANDARDS AND SPECIFICATIONS.
2. CONNECT TO EXISTING 1.5" WATER METER AND INSTALL 1.5" HDPE CTS-OD SDR-9 POLY PIPE. END PIPE 5' FROM BUILDING AND SEE MECHANICAL PLANS FOR CONTINUATION INTO BUILDING.
3. CONNECT TO EXISTING 6" SEWER LATERAL AT I.E.=4795.88 AND INSTALL 26'± OF 6" PVC SEWER PIPE, S=1.0%
4. INSTALL 6" CLEANOUT WYE 5' FROM BUILDING, TOL=MATCH TOP OF ASPHALT (4803.8±), I.E.=4796.14 AND SEE MECHANICAL PLANS FOR CONTINUATION TO THE BUILDING.
5. EXISTING STREET LIGHT.
6. INSTALL 1" IRRIGATION STUB AND VAULT PER APWA STANDARDS AND SPECIFICATIONS. SEE IRRIGATION PLANS FOR CONTINUATION TO BACKFLOW PREVENTOR.
7. TOP(6"SS)=4796.53
I.E.(12"SD)=4800.62

CIR
CIVIL ENGINEERING + SURVEYING
3032 SOUTH 1030 WEST, SUITE 202
SLC, Utah 84119 - 801-949-6296

NO.	REVISIONS	BY	DATE

DESIGNER: TLH
PROJECT ENGINEER: TLH

BIG O TIRES

PORTER CROSSING PKWY, EAGLE MOUNTAIN, UTAH

UTILITY PLAN

PROFESSIONAL ENGINEER
No. 12072623
TREVOR L HODGSON
STATE OF UTAH

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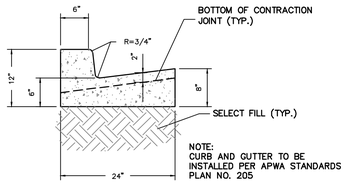
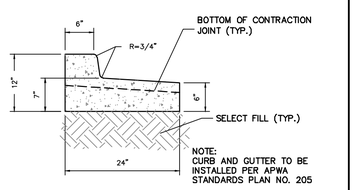
SHEET NO.
C3.0

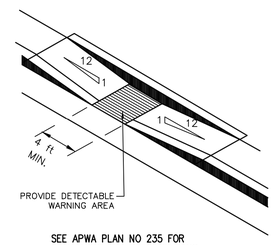
PROJECT ID	DATE:
S1070-02	09/17/21
FILE NAME: PRJ-TEM2	SCALE: 1"=20'



1 24" CURB & GUTTER
N.T.S.

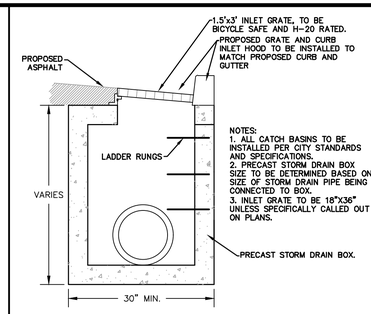


2 24" REVERSE PAN CURB & GUTTER
N.T.S.

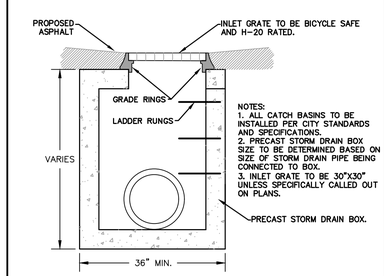


SEE APWA PLAN NO 235 FOR STANDARDS AND SPECIFICATIONS

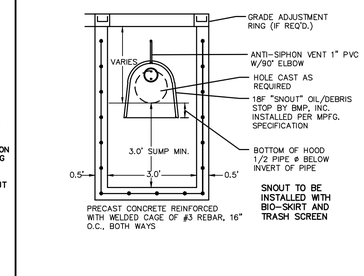
3 ADA RAMP
N.T.S.



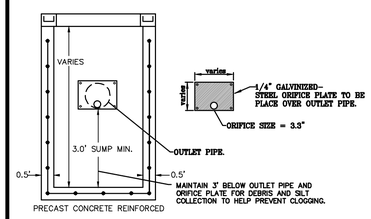
4 STANDARD STORM DRAIN CURB INLET BOX
N.T.S.



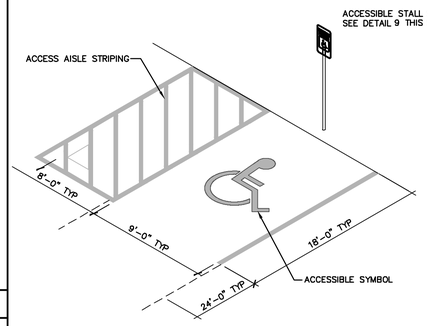
5 STANDARD STORM DRAIN INLET BOX
N.T.S.



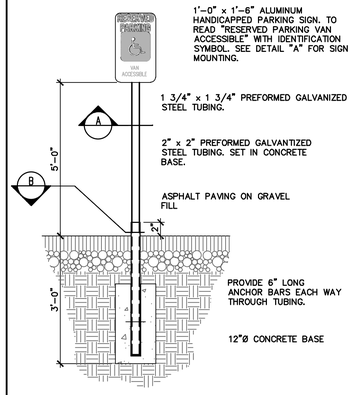
6 SNOUT OIL & DEBRIS STOP
N.T.S.



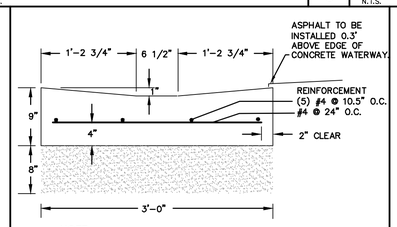
7 ORIFICE PLATE
N.T.S.



8 ACCESSIBLE PARKING STALL
N.T.S.

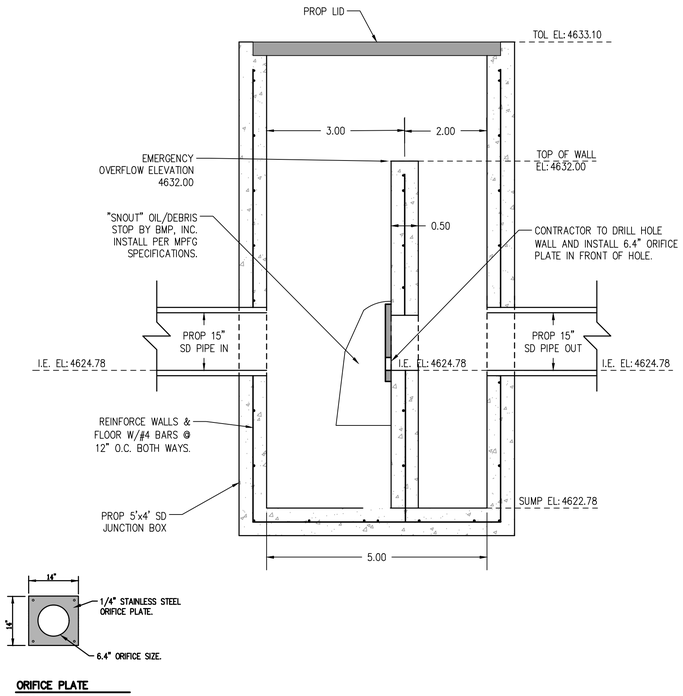


9 HANDICAPPED PARKING SIGN
N.T.S.



NOTE:
1. PER APWA PLAN NO. 211
2. ASPHALT PAVEMENT SECTION TO BE INSTALLED AT 0.03' HIGHER THAT THE TOP EDGE OF THE CONCRETE ROLL GUTTER, BOTH SIDES.

10 3'-0" ROLL GUTTER
N.T.S.



ORIFICE PLATE
N.T.S.

11 SITE OUTLET STRUCTURE-SOUTHWEST
N.T.S.

NO.	REVISIONS	BY	DATE
DESIGNER: TLH	PROJECT ENGINEER: TLH		

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DETAIL SHEET

PROFESSIONAL ENGINEER
No. 12072623
TREVOR L HODGSON
STATE OF UTAH

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SHEET NO.
C4.0

PROJECT ID	DATE:
S1070-02	09/17/21
FILE NAME: PRJ-TEM2	SCALE:

STORMTECH SC-740 CHAMBER

Designed to meet the most stringent industry performance standards for superior structural integrity while providing designers with a cost-effective method to save valuable land and protect water resources. The StormTech system is designed primarily to be used under parking lots, thus maximizing land usage for private (commercial) and public applications. StormTech chambers can also be used in conjunction with Green Infrastructure, thus enhancing the performance and extending the service life of these practices.

STORMTECH SC-740 CHAMBER
(not to scale)

Nominal Chamber Specifications

Size (L x W x H)
85.4" x 51" x 30"
2,170 mm x 1,295 mm x 762 mm

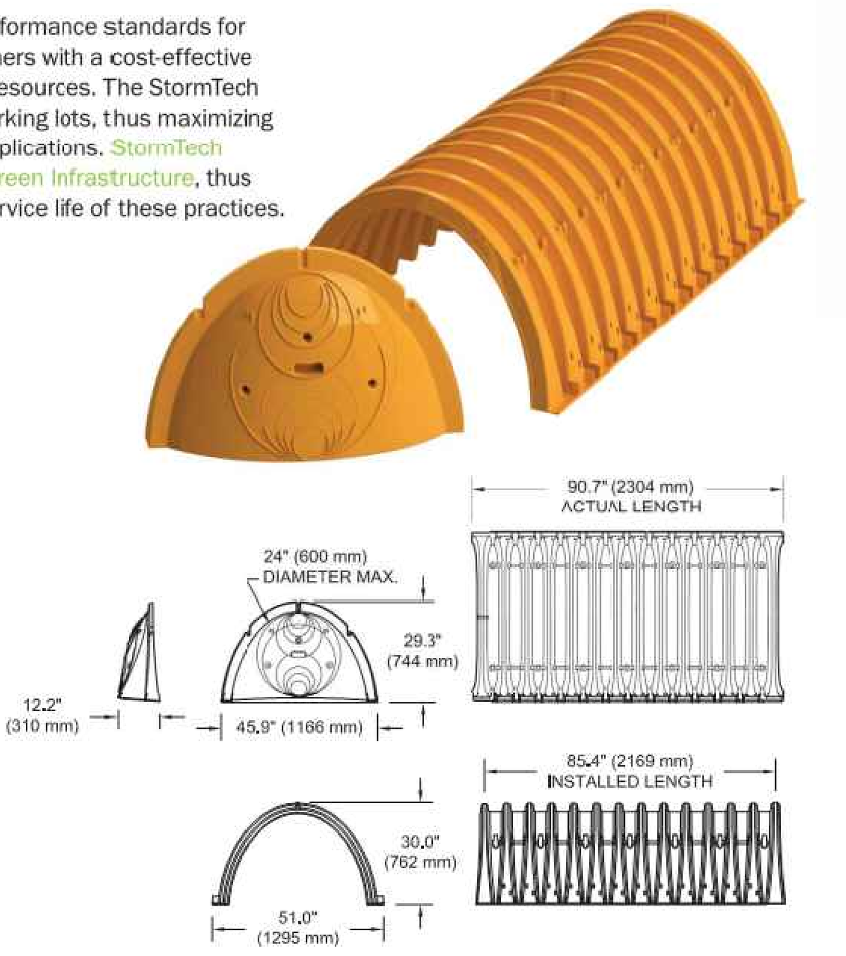
Chamber Storage
45.9 ft³ (1.30 m³)

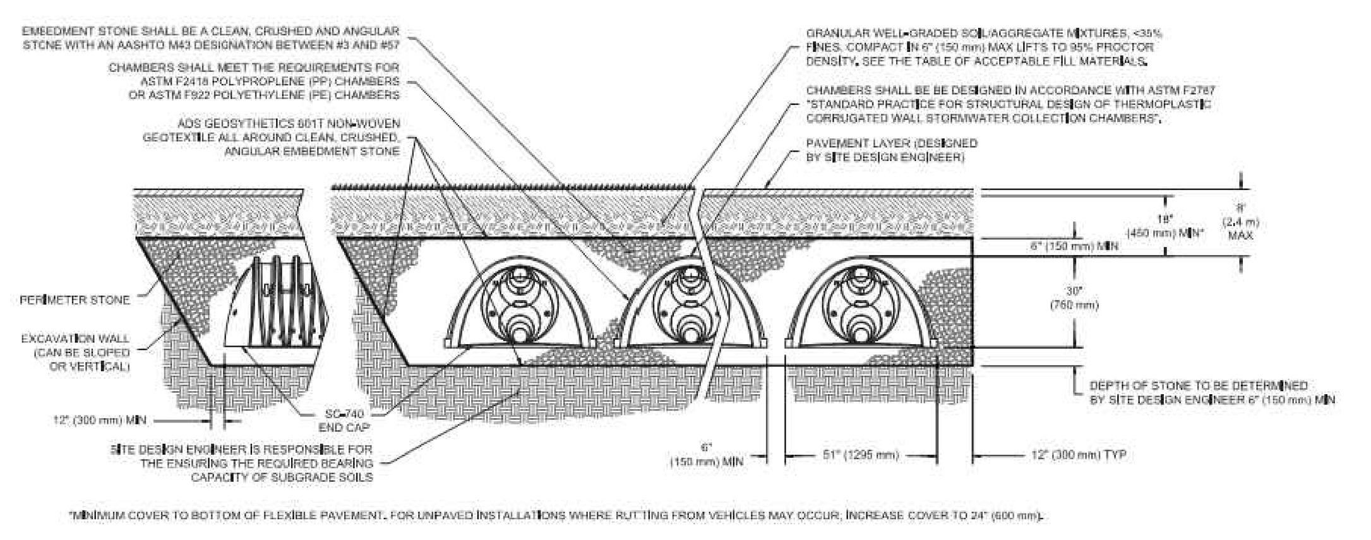
Min. Installed Storage*
74.9 ft³ (2.12 m³)

Weight
74.0 lbs (33.6 kg)

Shipping
30 chambers/pallet
60 end caps/pallet
12 pallets/truck

*Assumes 6" (150 mm) stone above, below and between chambers and 40% stone porosity.





EMBEDMENT STONE SHALL BE A CLEAN, CRUSHED AND ANGULAR STONE WITH AN AASHTO M43 DESIGNATION BETWEEN #3 AND #57
CHAMBERS SHALL MEET THE REQUIREMENTS FOR ASTM F2418 POLYPROPLENE (PP) CHAMBERS OR ASTM F922 POLYETHYLENE (PE) CHAMBERS
ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR EMBEDMENT STONE
PAVEMENT LAYER (DESIGNED BY SITE DESIGN ENGINEER)

SC-740 CUMULATIVE STORAGE VOLUMES PER CHAMBER

Assumes 40% Stone Porosity. Calculations are Based Upon a 6" (150 mm) Stone Base Under Chambers.

Depth of Water in System Inches (mm)		Cumulative Chamber Storage ft³ (m³)	Total System Cumulative Storage ft³ (m³)
42 (1067)	↑	45.90 (1.300)	74.90 (2.121)
41 (1041)		45.90 (1.300)	73.77 (2.089)
40 (1016)	Stone	45.90 (1.300)	72.64 (2.057)
39 (991)	Cover	45.90 (1.300)	71.52 (2.025)
38 (965)		45.90 (1.300)	70.39 (1.993)
37 (940)	↓	45.90 (1.300)	69.26 (1.961)
36 (914)		45.90 (1.300)	68.14 (1.929)
35 (889)		45.85 (1.298)	66.98 (1.897)
34 (864)		45.69 (1.294)	65.75 (1.862)
33 (838)		45.41 (1.286)	64.46 (1.825)
32 (813)		44.81 (1.269)	62.97 (1.783)
31 (787)		44.01 (1.246)	61.36 (1.737)
30 (762)		43.06 (1.219)	59.66 (1.689)
29 (737)		41.98 (1.189)	57.89 (1.639)
28 (711)		40.80 (1.155)	56.05 (1.587)
27 (686)		39.54 (1.120)	54.17 (1.534)
26 (660)		38.18 (1.081)	52.23 (1.479)
25 (635)		36.74 (1.040)	50.23 (1.422)
24 (610)		35.22 (0.977)	48.19 (1.365)
23 (584)		33.64 (0.953)	46.11 (1.306)
22 (559)		31.99 (0.906)	44.00 (1.246)
21 (533)		30.29 (0.858)	1.85 (1.185)
20 (508)		28.54 (0.808)	39.67 (1.123)
19 (483)		26.74 (0.757)	37.47 (1.061)
18 (457)		24.89 (0.705)	35.23 (0.997)
17 (432)		23.00 (0.651)	32.96 (0.939)
16 (406)		21.06 (0.596)	30.68 (0.869)
15 (381)		19.09 (0.541)	28.36 (0.803)
14 (356)		17.08 (0.484)	26.03 (0.737)
13 (330)		15.04 (0.426)	23.68 (0.670)
12 (305)		12.97 (0.367)	21.31 (0.608)
11 (279)		10.87 (0.309)	18.92 (0.535)
10 (254)		8.74 (0.247)	16.51 (0.468)
9 (229)		6.58 (0.186)	14.09 (0.399)
8 (203)		4.41 (0.125)	11.66 (0.330)
7 (178)		2.21 (0.063)	9.21 (0.264)
6 (152)	↑	0 (0)	6.76 (0.191)
5 (127)		0 (0)	5.63 (0.160)
4 (102)	Stone	0 (0)	4.51 (0.128)
3 (76)	Foundation	0 (0)	3.38 (0.096)
2 (51)		0 (0)	2.25 (0.064)
1 (25)	↓	0 (0)	1.13 (0.032)

Note: Add 1.13 ft³ (0.032 m³) of storage for each additional inch (25 mm) of stone foundation.

STORAGE VOLUME PER CHAMBER FT³ (M³)

	Bare Chamber Storage ft³ (m³)	Chamber and Stone Foundation Depth in. (mm)		
		6 (150)	12 (300)	18 (450)
SC-740 Chamber	45.9 (1.3)	74.9 (2.1)	81.7 (2.3)	88.4 (2.5)

Note: Assumes 6" (150 mm) stone above chambers, 6" (150 mm) row spacing and 40% stone porosity.

AMOUNT OF STONE PER CHAMBER

ENGLISH TONS (yds³)	Stone Foundation Depth		
	6"	12"	16"
SC-740	3.8 (2.8)	4.6 (3.3)	5.5 (3.9)
METRIC KILOGRAMS (m³)	150 mm	300 mm	450 mm
SC-740	3,450 (2.1)	4,170 (2.5)	4,490 (3.0)

Note: Assumes 6" (150 mm) of stone above and between chambers.

VOLUME EXCAVATION PER CHAMBER YD³ (M³)

	Stone Foundation Depth		
	6 (150)	12 (300)	18 (450)
SC-740	5.5 (4.2)	6.2 (4.7)	6.8 (5.2)

Note: Assumes 6" (150 mm) of row separation and 18" (450 mm) of cover. The volume of excavation will vary as depth of cover increases.

Working on a project?
Visit us at www.stormtech.com
and utilize the StormTech Design Tool

For more information on the StormTech SC-740 Chamber and other ADS products, please contact our Customer Service Representatives at 1-800-821-6710

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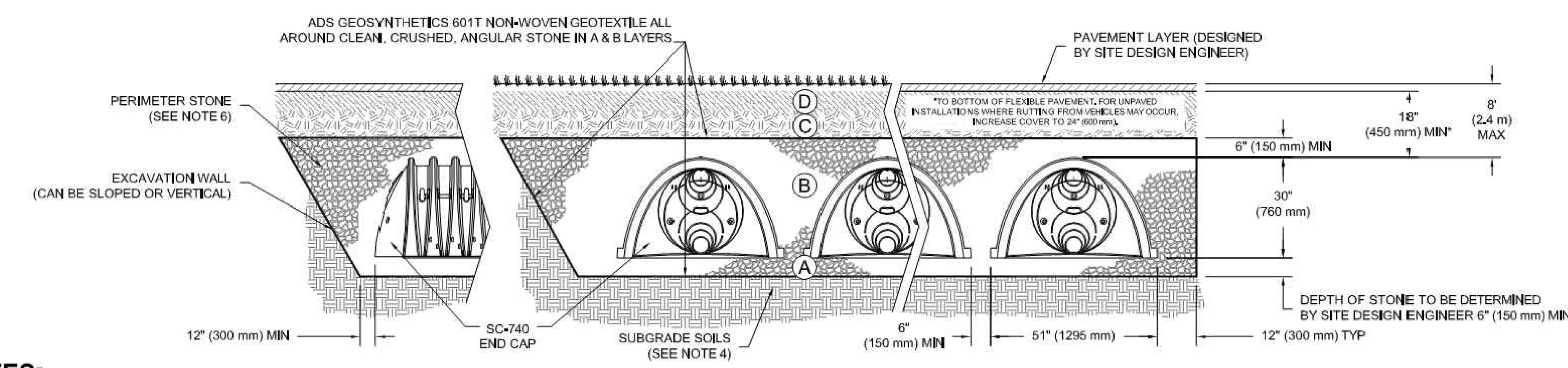
ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE ALL AROUND CLEAN, CRUSHED, ANGULAR STONE IN A & B LAYERS
PAVEMENT LAYER (DESIGNED BY SITE DESIGN ENGINEER)
PERIMETER STONE (SEE NOTE 6)
EXCAVATION WALL (CAN BE SLOPED OR VERTICAL)
*TO BOTTOM OF FLEXIBLE PAVEMENT. FOR UNPAVED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24" (600 mm).
18" (450 mm) MIN*
8' (2.4 m) MAX
6" (150 mm) MIN
30" (760 mm)
DEPTH OF STONE TO BE DETERMINED BY SITE DESIGN ENGINEER 6" (150 mm) MIN
12" (300 mm) MIN
SC-740 END CAP
SUBGRADE SOILS (SEE NOTE 4)
6" (150 mm) MIN
51" (1295 mm)
12" (300 mm) TYP

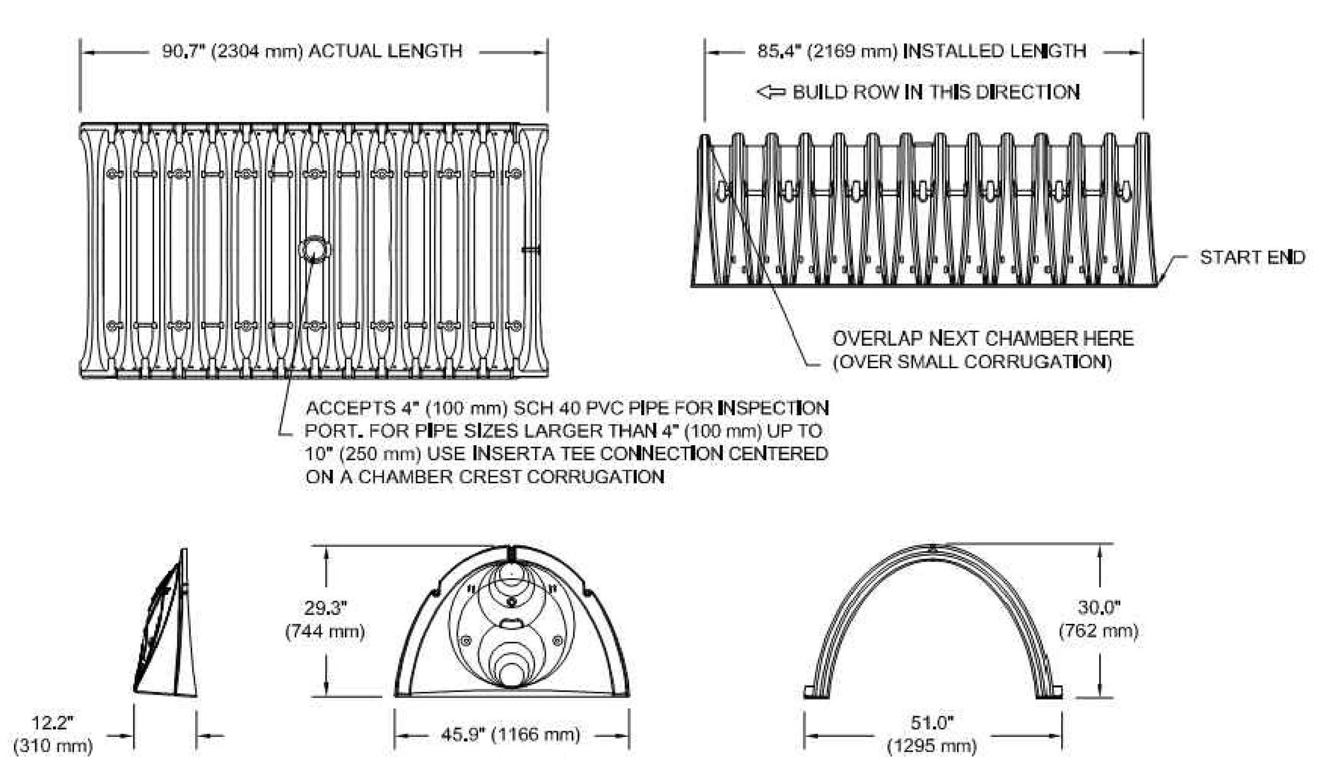
NOTES:

1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

SC-740 STANDARD CROSS SECTION
SHEET 1 OF 1

SC-740 TECHNICAL SPECIFICATION

NTS

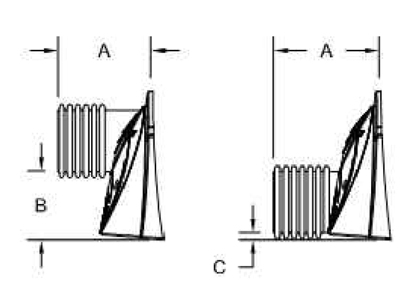


90.7" (2304 mm) ACTUAL LENGTH
85.4" (2169 mm) INSTALLED LENGTH
BUILD ROW IN THIS DIRECTION
START END
OVERLAP NEXT CHAMBER HERE (OVER SMALL CORRUGATION)
ACCEPTS 4" (100 mm) SCH 40 PVC PIPE FOR INSPECTION PORT. FOR PIPE SIZES LARGER THAN 4" (100 mm) UP TO 10" (250 mm) USE INSERTA TEE CONNECTION CENTERED ON A CHAMBER CREST CORRUGATION
29.3" (744 mm)
30.0" (762 mm)
12.2" (310 mm)
45.9" (1166 mm)
51.0" (1295 mm)

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X INSTALLED LENGTH)	51.0" X 30.0" X 85.4"	(1295 mm X 762 mm X 2169 mm)
CHAMBER STORAGE	45.9 CUBIC FEET	(1.30 m³)
MINIMUM INSTALLED STORAGE*	74.9 CUBIC FEET	(2.12 m³)
WEIGHT	75.0 lbs.	(33.6 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS



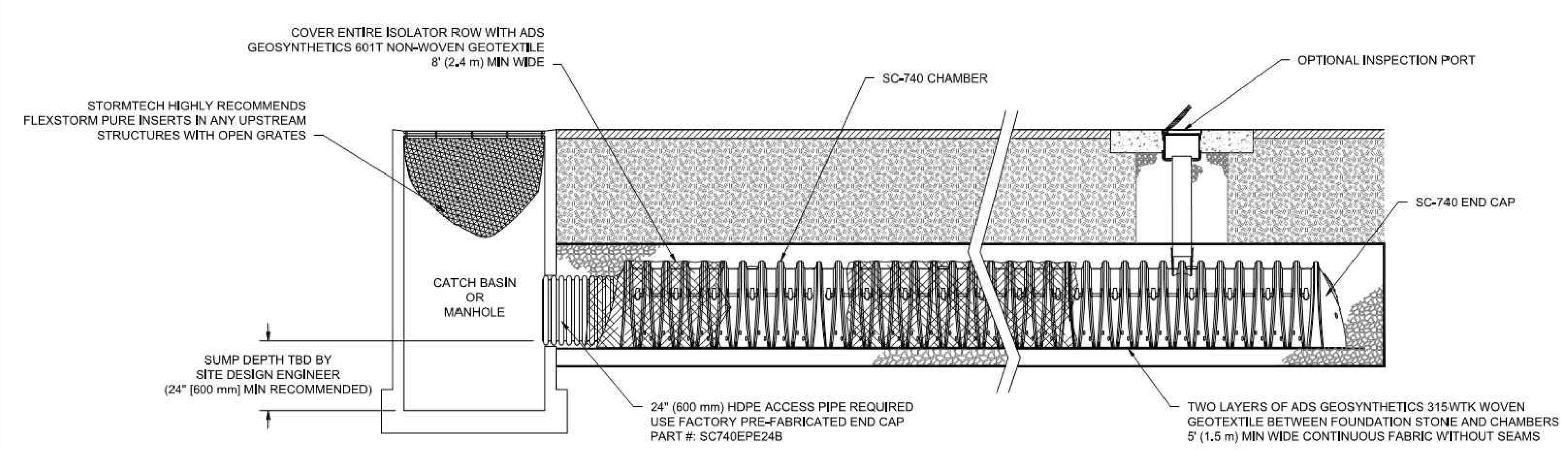
STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"

PART #	STUB	A	B	C
SC740EPE06T / SC740EPE06TPC	6" (150 mm)	10.9" (277 mm)	18.5" (470 mm)	—
SC740EPE06B / SC740EPE06BPC			—	0.5" (13 mm)
SC740EPE08T /SC740EPE08TPC	8" (200 mm)	12.2" (310 mm)	16.5" (419 mm)	—
SC740EPE08B / SC740EPE08BPC			—	0.6" (15 mm)
SC740EPE10T / SC740EPE10TPC	10" (250 mm)	13.4" (340 mm)	14.5" (368 mm)	—
SC740EPE10B / SC740EPE10BPC			—	0.7" (18 mm)
SC740EPE12T / SC740EPE12TPC	12" (300 mm)	14.7" (373 mm)	12.5" (318 mm)	—
SC740EPE12B / SC740EPE12BPC			—	1.2" (30 mm)
SC740EPE15T / SC740EPE15TPC	15" (375 mm)	18.4" (467 mm)	9.0" (229 mm)	—
SC740EPE15B / SC740EPE15BPC			—	1.3" (33 mm)
SC740EPE18T / SC740EPE18TPC	18" (450 mm)	19.7" (500 mm)	5.0" (127 mm)	—
SC740EPE18B / SC740EPE18BPC			—	1.6" (41 mm)
SC740EPE24B*	24" (600 mm)	18.5" (470 mm)	—	0.1" (3 mm)

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

* FOR THE SC740EPE24B THE 24" (600 mm) STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75" (44 mm). BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SITS LEVEL.

NOTE: ALL DIMENSIONS ARE NOMINAL



COVER ENTIRE ISOLATOR ROW WITH ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE 8' (2.4 m) MIN WIDE
STORMTECH HIGHLY RECOMMENDS FLEXSTORM PURE INSERTS IN ANY UPSTREAM STRUCTURES WITH OPEN GRATES
SC-740 CHAMBER
OPTIONAL INSPECTION PORT
SC-740 END CAP
CATCH BASIN OR MANHOLE
SUMP DEPTH TBD BY SITE DESIGN ENGINEER (24" [600 mm] MIN RECOMMENDED)
24" (600 mm) HDPE ACCESS PIPE REQUIRED USE FACTORY PRE-FABRICATED END CAP PART #: SC740EPE24B
TWO LAYERS OF ADS GEOSYNTHETICS 315WTK WOVEN GEOTEXTILE BETWEEN FOUNDATION STONE AND CHAMBERS 5' (1.5 m) MIN WIDE CONTINUOUS FABRIC WITHOUT SEAMS

SC-740 ISOLATOR ROW DETAIL

NTS

INSPECTION & MAINTENANCE

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

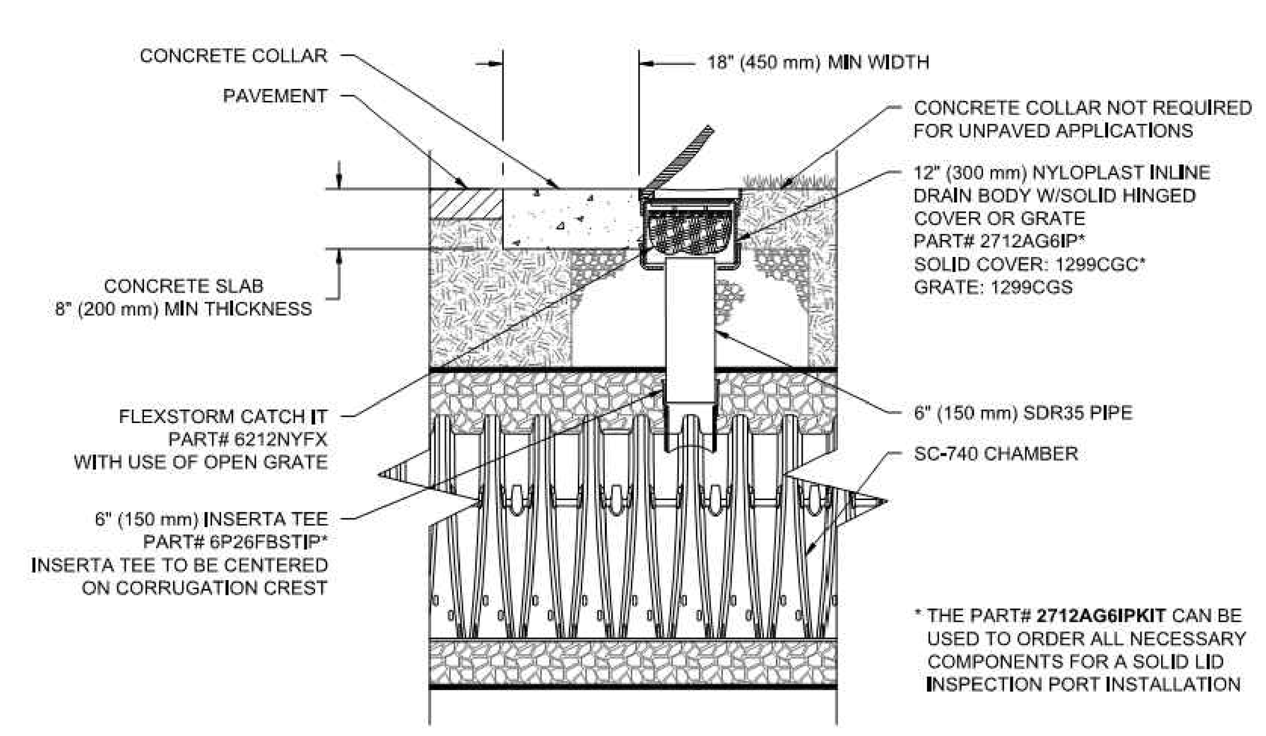
STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45" (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

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

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

NOTES

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



CONCRETE COLLAR
PAVEMENT
18" (450 mm) MIN WIDTH
CONCRETE COLLAR NOT REQUIRED FOR UNPAVED APPLICATIONS
12" (300 mm) NYLOPLAST INLINE DRAIN BODY W/SOLID HINGED COVER OR GRATE
CONCRETE SLAB 8" (200 mm) MIN THICKNESS
FLEXSTORM CATCH IT PART# 6212NYFX WITH USE OF OPEN GRATE
6" (150 mm) SDR35 PIPE
SC-740 CHAMBER
6" (150 mm) INSERTA TEE PART# 6P26FBSTIP* INSERTA TEE TO BE CENTERED ON CORRUGATION CREST

SC-740 6" INSPECTION PORT DETAIL

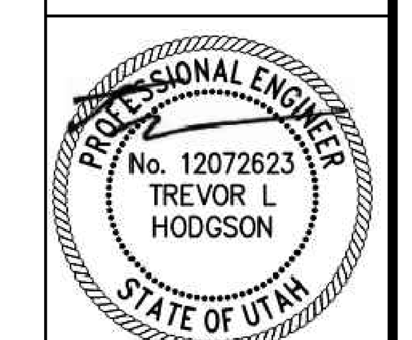
NTS

ISOLATOR ROW DETAILS SC-740
SHEET 1 OF 1

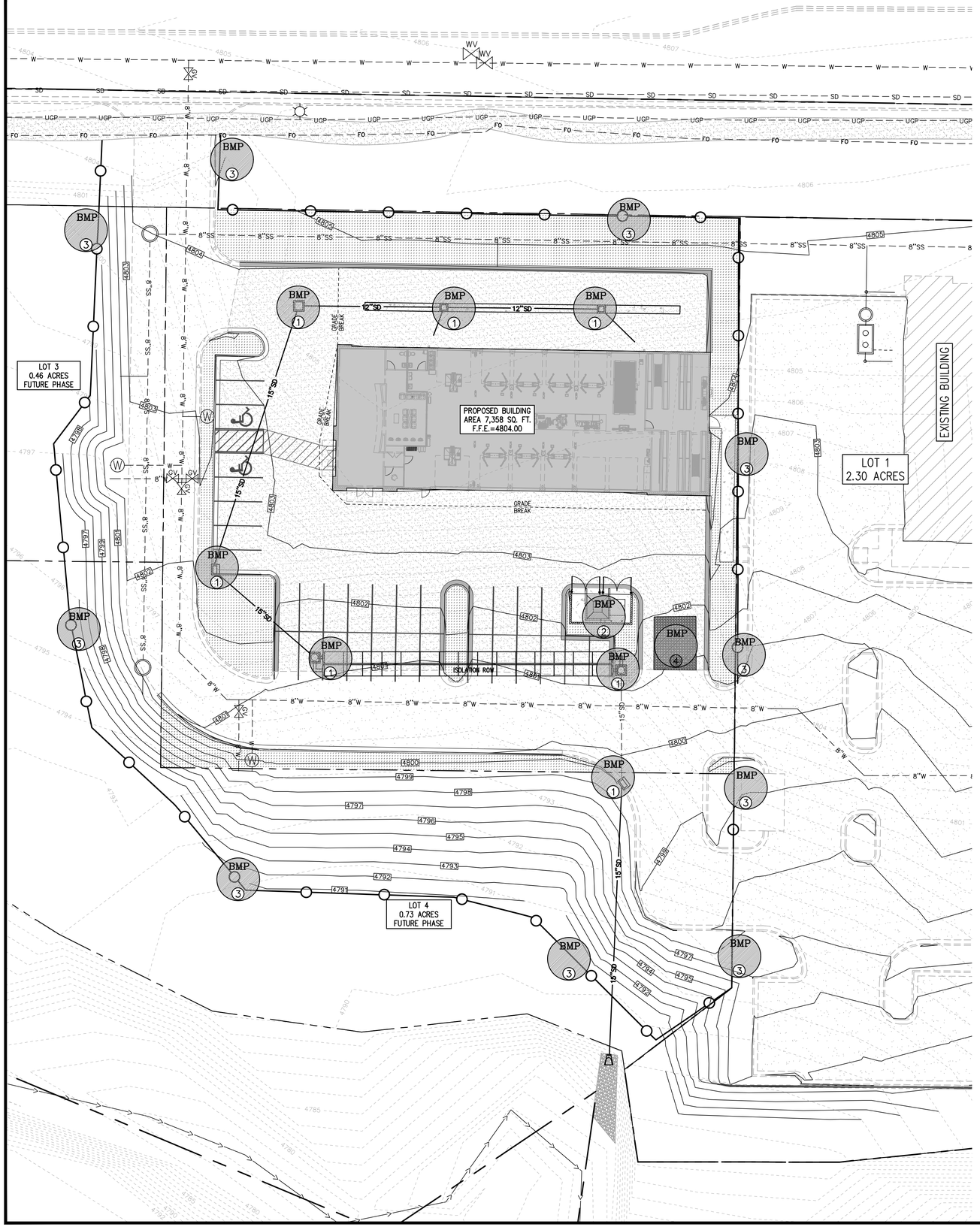
CIR CIVIL ENGINEERING + SURVEYING
3032 SOUTH 1030 WEST, SUITE 202
SLC, Utah 84119 – 801-949-6296

BIG O TIRES
PORTER CROSSING PKWY, EAGLE MOUNTAIN, UTAH
DETAIL SHEET

REVISIONS | NO. | BY | DATE
DESIGNER: TLH | PROJECT ENGINEER: TLH

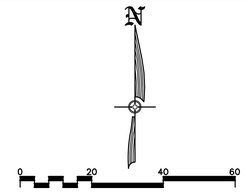


SHEET NO.
C4.1
PROJECT ID: S1070-02 | DATE: 09/17/21
FILE NAME: PRJ-TEM2 | SCALE:



BMP CALLOUTS

1. PLACE A SILT FENCE AROUND THE PERIMETER OF THE INLET, ONCE PAVEMENT AND/OR CURB HAS BEEN INSTALLED PLACE GRAVEL BAGS AROUND THE INLET. GRAVEL BAGS TO BE USED ON PAVED OR CONCRETE SURFACES AND SILT FENCE TO BE USED ON UNIMPROVED SURFACES.
   NOTE: IN HIGH TRAFFIC AREAS CONTRACTOR TO USE INSERT FILTER FABRIC. IF INLET HAS CURB OPENING, THE FILTER FABRIC IS TO BE EXTENDED UP TO COVER THE CURB OPENING AND GRAVEL BAGS PLACED IN GUTTER AT EACH SIDE OF OPENING TO KEEP FILTER FABRIC SNUG AGAINST CURB WALL.
2. CONTRACTOR TO INSTALL CONCRETE WASHOUT AREA. THE LOCATION MAY VARY FROM LOCATION SHOWN ON PLANS.
3. INSTALL TYPICAL SILT FENCE, SILT FENCE TO BE INSTALLED PERPENDICULAR TO STORM WATER FLOW. INSTALLATION TO BE DONE SO AS TO PREVENT SEDIMENT FROM LEAVING THE SITE.
   NOTE: CONTRACTOR TO USE VEGETATIVE BUFFER AND OR CUT BACK INSTEAD OF SILT FENCE WHERE POSSIBLE.
4. CONTRACTOR TO INSTALL A MIMIMUM OF 6" DEEP GRAVEL (3" TO 6") OF SUFFICIENT SIZE (MINIMUM OF 50' IN LENGTH AND 20' WIDE) AS TO PROVIDE A WHEEL WASH AREA TO PREVENT THE TRACKING OF MUD OFFISTE. THE LOCATION OF WHEEL WASH MAY VARY FROM LOCATION SHOWN ON PLANS SO AS TO PROVIDE THE BEST PROTECTION AGAINST TRACKING MUD OFFSITE. CONTRACTOR TO MAINTAIN AND CLEAN WHEEL WASH AREA AS NEEDED TO PREVENT THE TRACKING OF MUD OFFSITE.



SHEET LEGEND

SILT FENCE

WHEEL WASH AREA

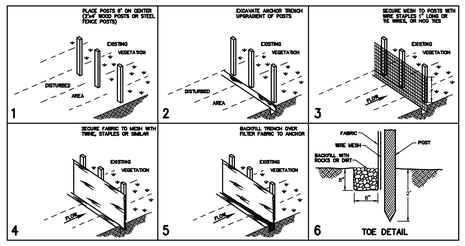
BMP AREA (X)

SILT FENCE

DEFINITION: A TEMPORARY SEDIMENT BARRIER CONSISTING OF FILTER FABRIC STRETCHED ACROSS AND SECURED TO SUPPORTING POSTS AND ENTRENCHED.

PURPOSE: TO FILTER STORM WATER RUNOFF FROM UPGRADIENT DISTURBED AREA AND TRAP SEDIMENT ON SITE.

APPLICATION:
- PERIMETER CONTROL: PLACE FENCE AT DOWNGRADIENT LIMITS OF DISTURBANCE
- SEDIMENT BARRIER: PLACE FENCE AT TOE OF SLOPE OR SOIL STOCKPILE
- PROTECTION OF EXISTING WATERWAYS: PLACE FENCE AT TOP OF STREAM BANK
- INLET PROTECTION: PLACE FENCE SURROUNDING CATCH BASINS
- BUILDING SITES: PLACE FENCE ON THE DOWNHILL LOCATION OF ALL BUILDING SITES
- ROADWAYS: PLACE FENCE ON THE DOWNHILL LOCATION OF ALL ROADWAY GRADED AREAS



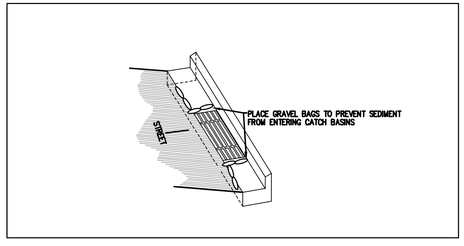
INSTALLATION:
- PLACE POSTS 6 FOOT ON CENTER ALONG CONTOUR (OR USE PRE-ASSEMBLED UNIT) AND DRIVE 2 FEET MINIMUM INTO GROUND. EXCAVATE AN ANCHOR TRENCH IMMEDIATELY UPGRADIENT OF POSTS.
- SECURE WIRE MESH (14 GAUGE MIN. WITH 6 INCH OPENINGS) TO UPSLOPE SIDE OF POSTS. ATTACH WITH HEAVY DUTY WIRE STAPLES 1 INCH LONG, TIE WIRES OR HOG RINGS.
- CUT FABRIC TO REQUIRED WIDTH, UNROLL ALONG LENGTH OF BARRIER AND DRAPE OVER BARRIER. SECURE FABRIC TO MESH WITH TWINE, STAPLES, OR SIMILAR, WITH TRAILING EDGE EXTENDING INTO ANCHOR TRENCH.
- BACKFILL TRENCH OVER FILTER FABRIC TO ANCHOR.
- SPLICES TO OCCUR ONLY @ POSTS W/A MIN 6" OVERLAP AND SECURE SEAL.

MAINTENANCE:
- INSPECT IMMEDIATELY AFTER ANY RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- LOOK FOR RUNOFF BYPASSING ENDS OF BARRIERS OR UNDERCUTTING FENCE.
- REPAIR OR REPLACE DAMAGED AREAS OF THE FENCE AND REMOVE ACCUMULATED SEDIMENT.
- REANCHOR FENCE AS NECESSARY TO PREVENT SHORTCUTTING.
- REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/2 THE HEIGHT OF THE FENCE.

GRAVEL BAG BARRIER

DEFINITION: TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF GRAVEL BAGS.

PURPOSE: TO FILTER STORM WATER RUNOFF FROM UP-GRADIENT DISTURBED AREA AND TRAP SEDIMENT ON SITE.



MAINTENANCE:
- INSPECT IMMEDIATELY AFTER ANY RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.
- LOOK FOR RUNOFF BYPASSING ENDS OF BARRIERS OR UNDERCUTTING BARRIERS.
- REPAIR OR REPLACE DAMAGED AREAS OF THE BARRIER AND REMOVE ACCUMULATED SEDIMENT.
- REALIGN BAGS AS NECESSARY TO PROVIDE CONTINUOUS BARRIER AND FILL GAPS.

CALL BEFORE YOU DIG! IT'S THE LAW! BLUE STAKES 1 800 662 4111

NO.	REVISIONS	BY	DATE
DESIGNER: TLH	PROJECT ENGINEER: TLH		

CIR CIVIL ENGINEERING + SURVEYING
3032 SOUTH 1030 WEST, SUITE 202
SLC, Utah 84119 - 801-949-6296

BIG O TIRES
PORTER CROSSING PKWY, EAGLE MOUNTAIN, UTAH

EROSION CONTROL PLAN (SWPPP)

PROFESSIONAL ENGINEER
No. 12072623
TREVOR L HODGSON
STATE OF UTAH

SHEET NO.	
C5.0	
PROJECT ID: S1070-02	DATE: 09/17/21
FILE NAME: PRJ-TEM2	SCALE: 1"=20'