

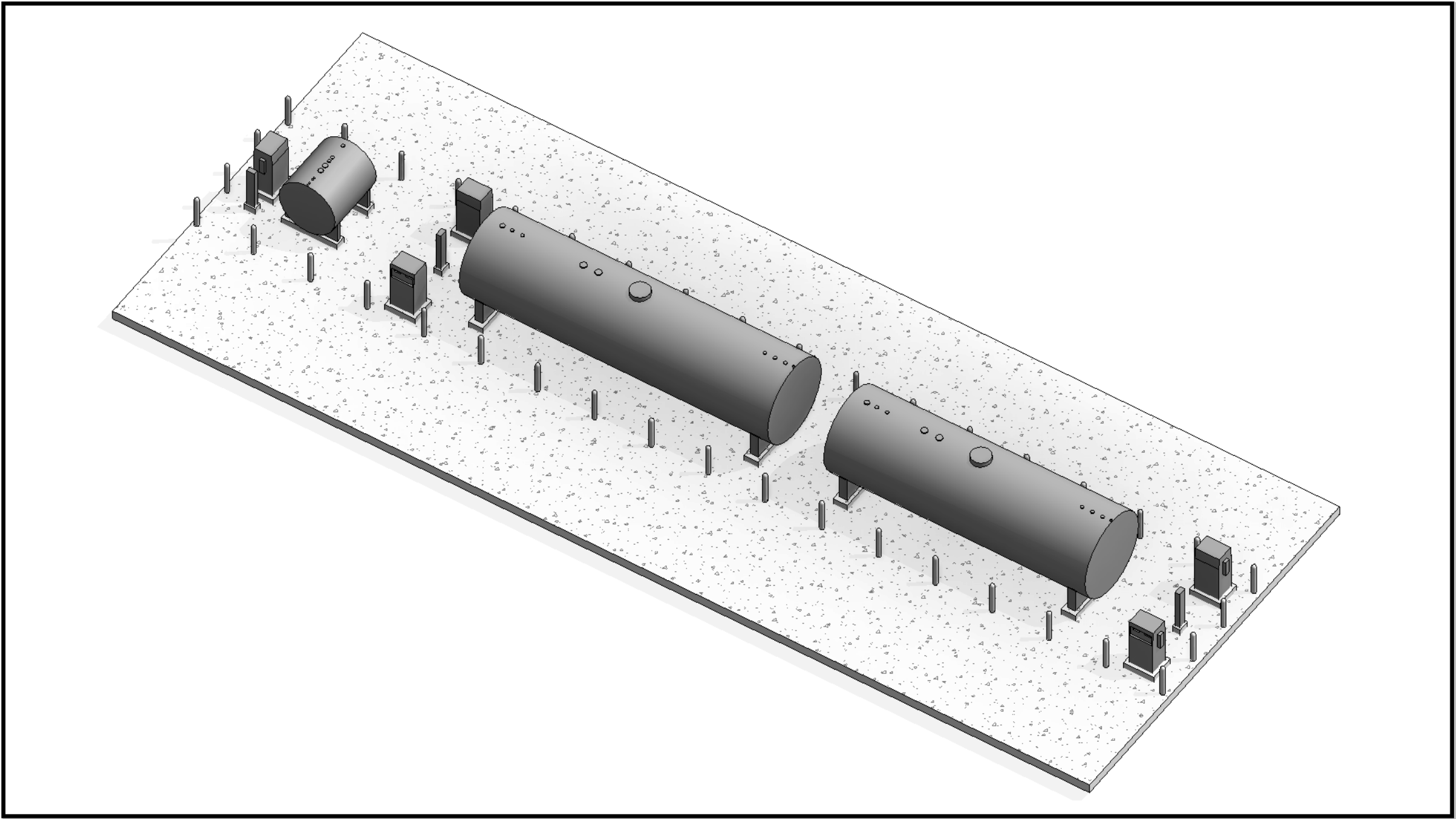


CSD TRANSPORTATION FUEL STATION RELOCATION

200 EAST 9300 SOUTH
SANDY UTAH 84070

MARCH 29, 2024

BID DOCUMENTS



CONSULTANTS

CIVIL
MERIDIAN ENGINEERING INC.
1628 W 11010 S, SUITE 102
SOUTH JORDAN, UT, 84095
PHONE 801.569.1319

ELECTRICAL
BNA CONSULTING
4225 LAKE PARK BLVD, SUITE 275
WEST VALLEY CITY, UT, 84120
PHONE 801.532.2196

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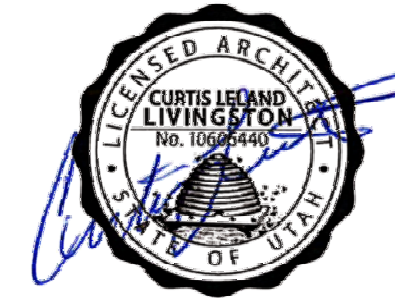
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233 SOUTH PLEASANT GROVE BLVD.
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PROFESSIONAL STAMP



3/29/24

CONSULTANT INFORMATION



BRIGHAM YOUNG
UNIVERSITY

PROJECT TITLE AND ADDRESS
**CSD TRANSPORTATION
FUEL STATION
RELOCATION**
200 EAST 9300 SOUTH
SANDY UTAH 84070

REVISIONS

△ DESCRIPTION	DATE

PROJECT INFORMATION

DATE: MARCH 29, 2024
PROJECT #: 23-089
PM / PA: KJM
PIC: CLL

DRAWING SET STATUS

BID DOCUMENTS

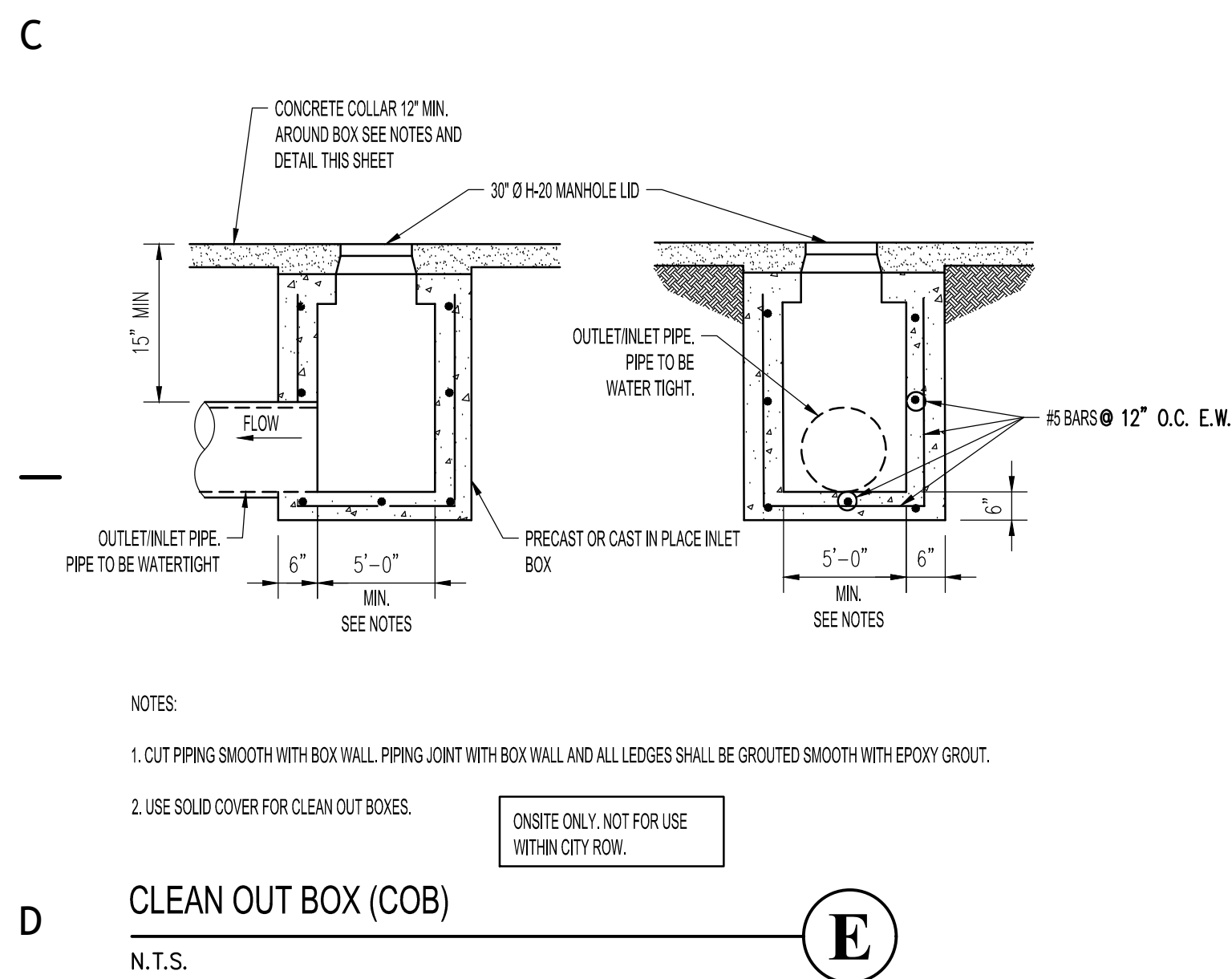
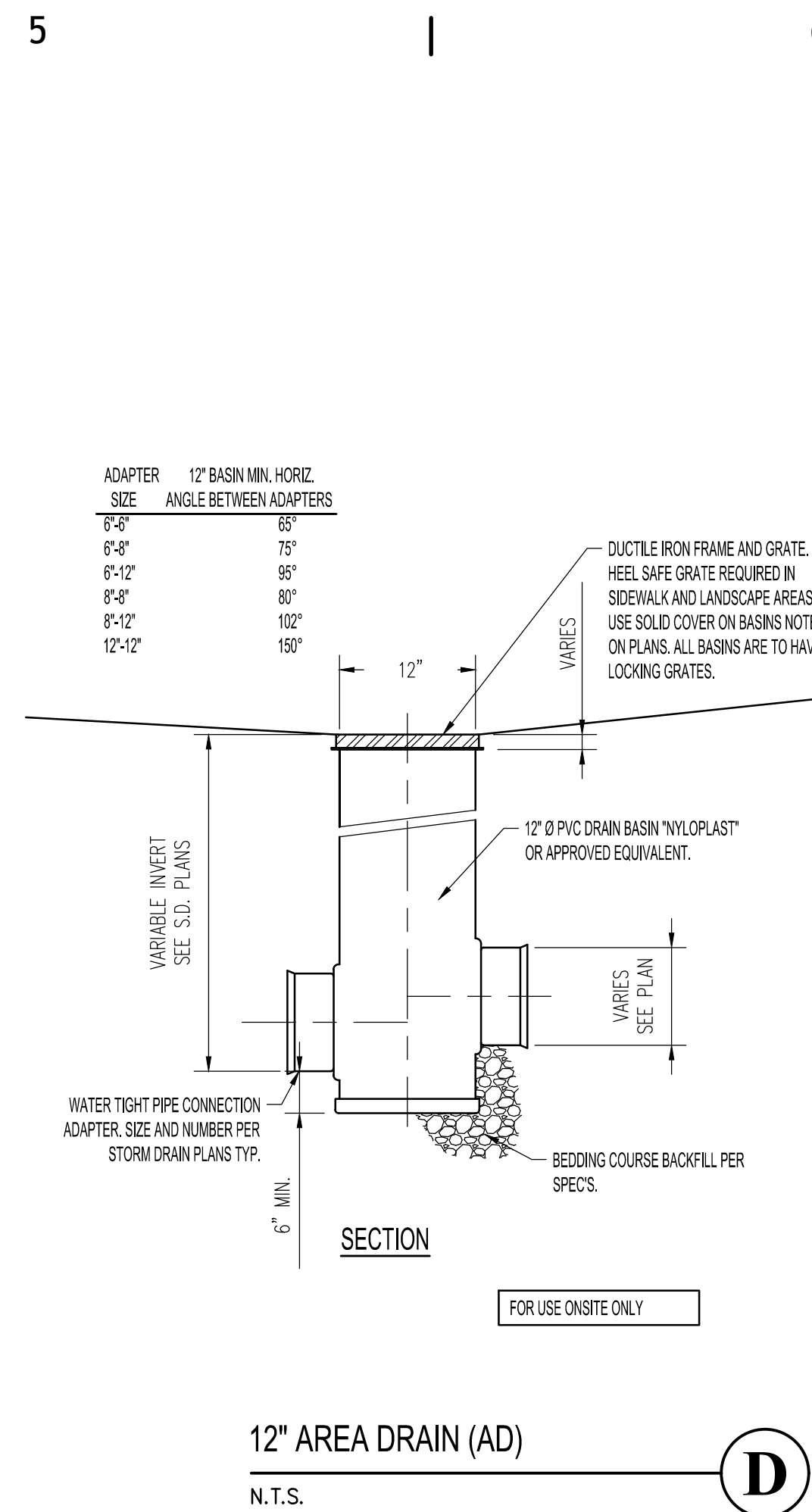
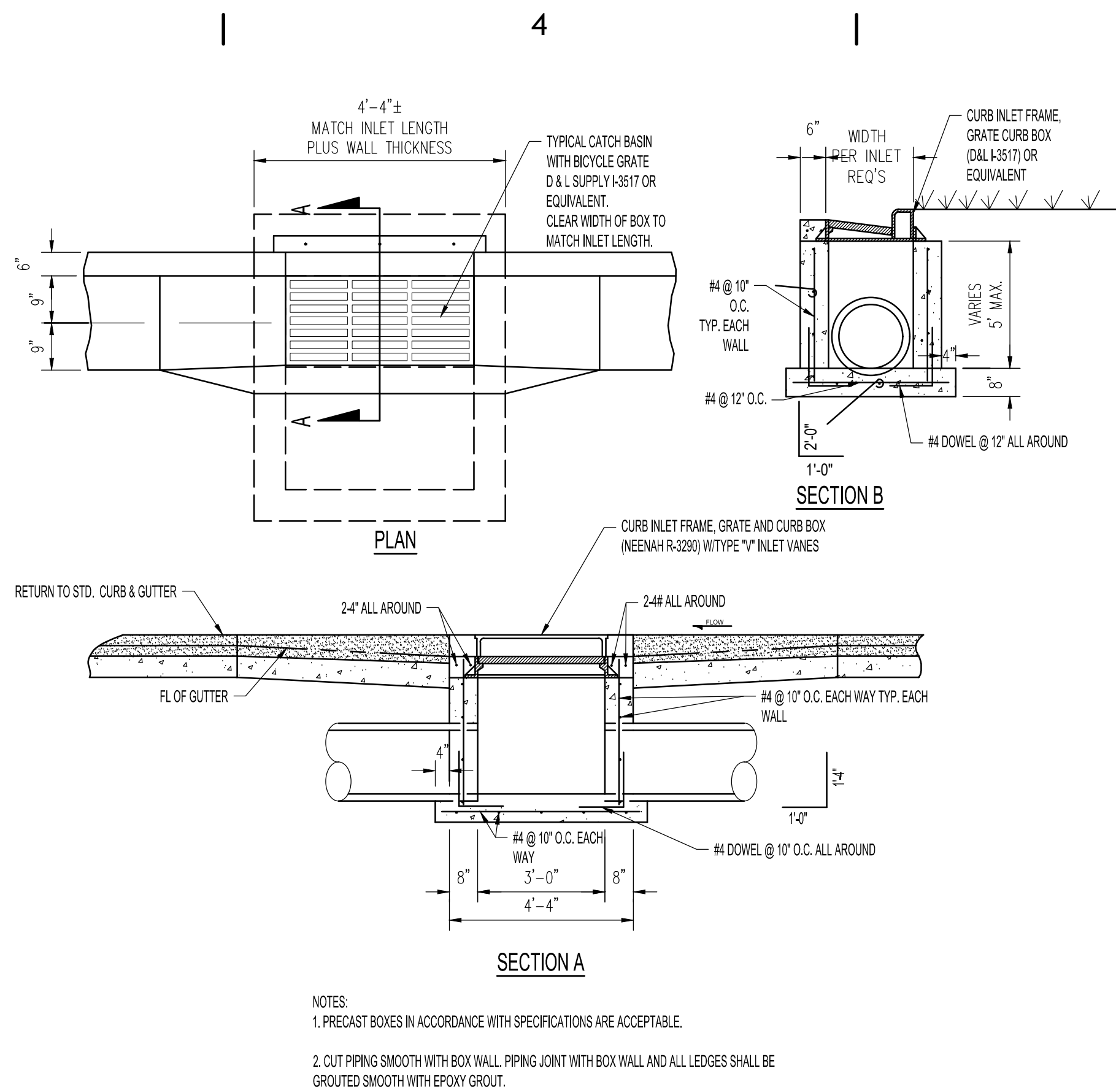
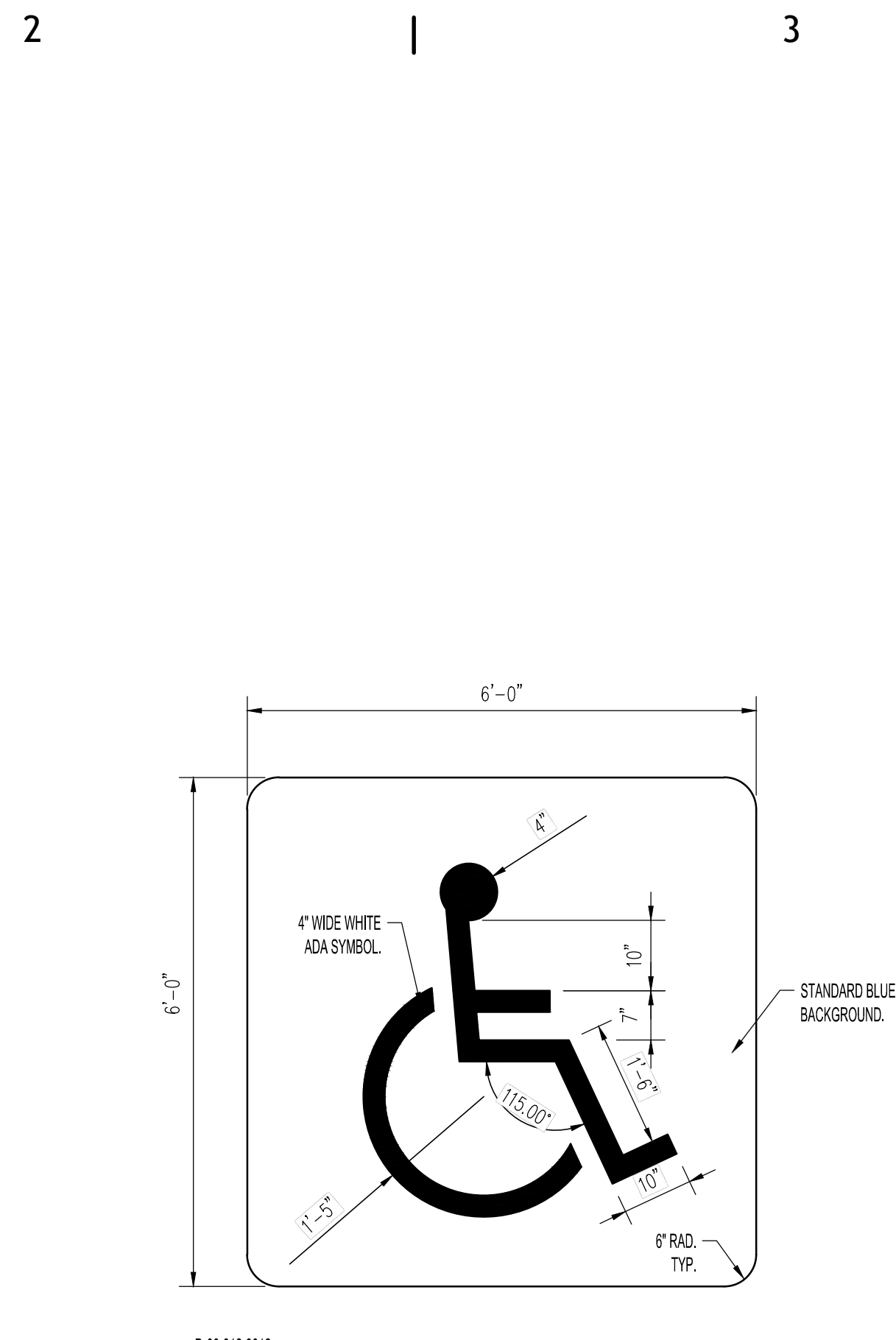
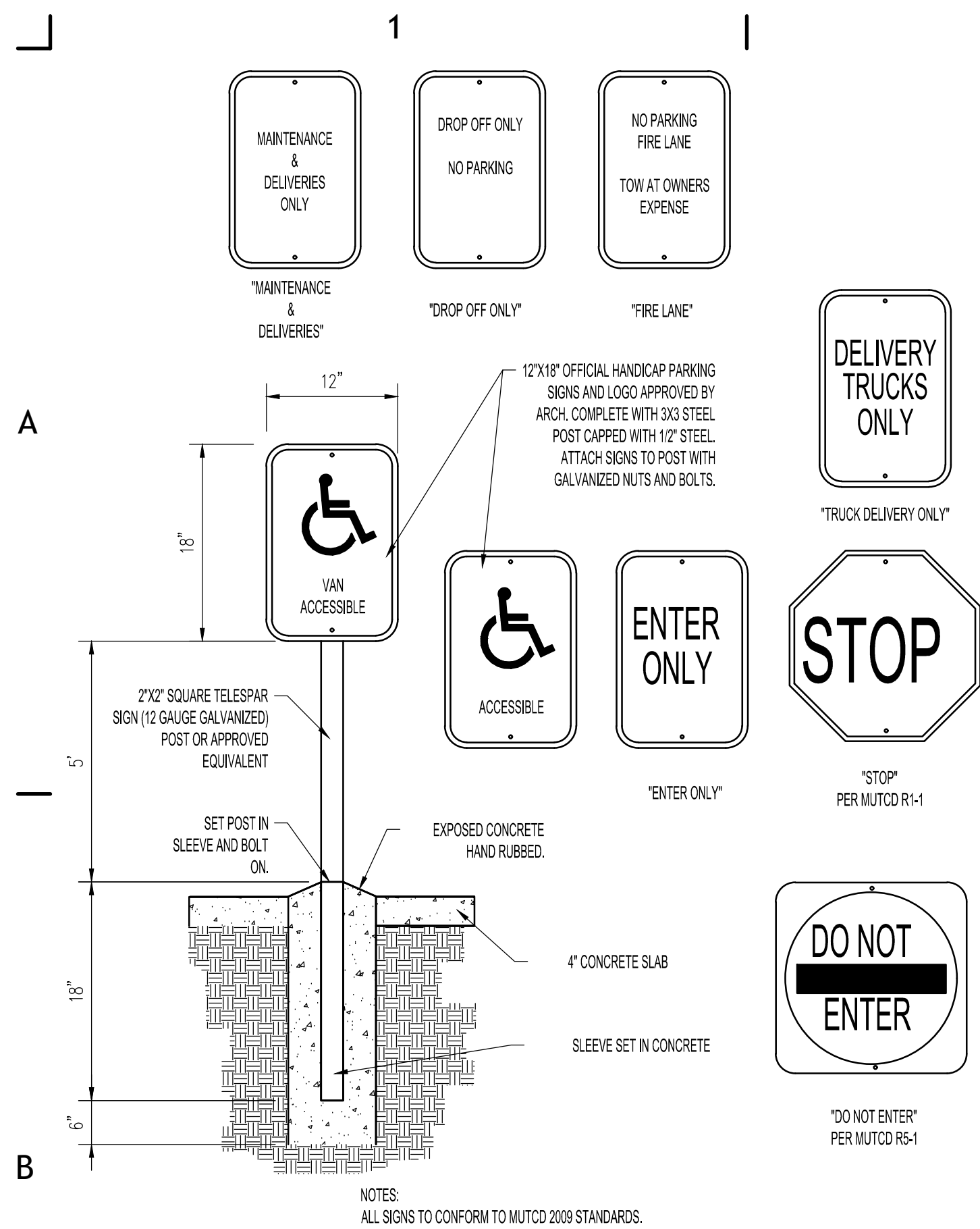
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TO BE PRINTED IN COLOR

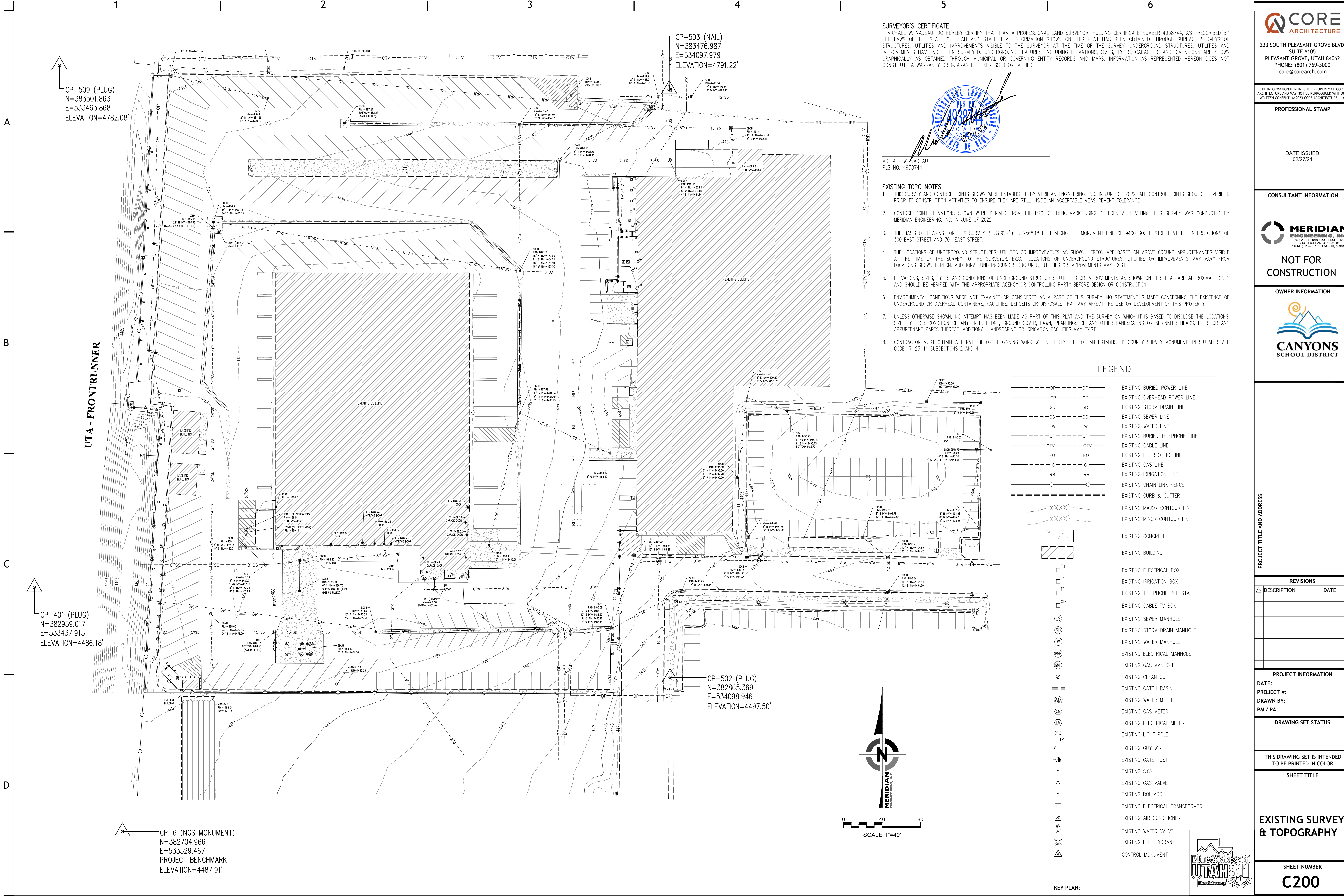
SHEET TITLE

COVER SHEET

SHEET NUMBER

CVR





SURVEYOR'S CERTIFICATE
I, MICHAEL W. NADEAU, DO HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR, HOLDING CERTIFICATE NUMBER 4938744, AS PRESCRIBED BY THE LAWS OF THE STATE OF UTAH AND STATE THAT INFORMATION SHOWN ON THIS PLAT HAS BEEN OBTAINED THROUGH SURFACE SURVEYS OF STRUCTURES, UTILITIES AND IMPROVEMENTS VISIBLE TO THE SURVEYOR AT THE TIME OF THE SURVEY. UNDERGROUND STRUCTURES, UTILITIES AND IMPROVEMENTS HAVE NOT BEEN SURVEYED. UNDERGROUND FEATURES, INCLUDING ELEVATIONS, SIZES, TYPES, CAPACITIES AND DIMENSIONS ARE SHOWN GRAPHICALLY AS OBTAINED THROUGH MUNICIPAL OR GOVERNING ENTITY RECORDS AND MAPS. INFORMATION AS REPRESENTED HEREON DOES NOT CONSTITUTE A WARRANTY OR GUARANTEE, EXPRESSED OR IMPLIED.

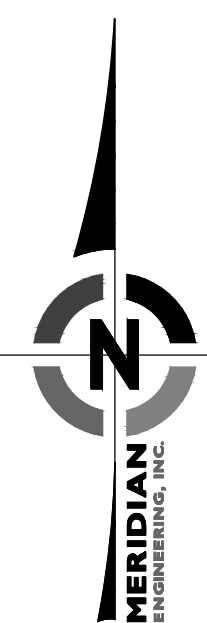


MICHAEL W. NADEAU
PLS NO. 4938744

- EXISTING TOPO NOTES:**
- THIS SURVEY AND CONTROL POINTS SHOWN WERE ESTABLISHED BY MERIDIAN ENGINEERING, INC. IN JUNE OF 2022. ALL CONTROL POINTS SHOULD BE VERIFIED PRIOR TO CONSTRUCTION ACTIVITIES TO ENSURE THEY ARE STILL INSIDE AN ACCEPTABLE MEASUREMENT TOLERANCE.
 - CONTROL POINT ELEVATIONS SHOWN WERE DERIVED FROM THE PROJECT BENCHMARK USING DIFFERENTIAL LEVELING. THIS SURVEY WAS CONDUCTED BY MERIDIAN ENGINEERING, INC. IN JUNE OF 2022.
 - THE BASIS OF BEARING FOR THIS SURVEY IS S.89°12'16"E. 2568.18 FEET ALONG THE MONUMENT LINE OF 9400 SOUTH STREET AT THE INTERSECTIONS OF 300 EAST STREET AND 700 EAST STREET.
 - THE LOCATIONS OF UNDERGROUND STRUCTURES, UTILITIES OR IMPROVEMENTS AS SHOWN HEREON ARE BASED ON ABOVE GROUND APPURTENANCES VISIBLE AT THE TIME OF THE SURVEY TO THE SURVEYOR. EXACT LOCATIONS OF UNDERGROUND STRUCTURES, UTILITIES OR IMPROVEMENTS MAY VARY FROM LOCATIONS SHOWN HEREON. ADDITIONAL UNDERGROUND STRUCTURES, UTILITIES OR IMPROVEMENTS MAY EXIST.
 - ELEVATIONS, SIZES, TYPES AND CONDITIONS OF UNDERGROUND STRUCTURES, UTILITIES OR IMPROVEMENTS AS SHOWN ON THIS PLAT ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED WITH THE APPROPRIATE AGENCY OR CONTROLLING PARTY BEFORE DESIGN OR CONSTRUCTION.
 - ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SURVEY. NO STATEMENT IS MADE CONCERNING THE EXISTENCE OF UNDERGROUND OR OVERHEAD CONTAINERS, FACILITIES, DEPOSITS OR DISPOSALS THAT MAY AFFECT THE USE OR DEVELOPMENT OF THIS PROPERTY.
 - UNLESS OTHERWISE SHOWN, NO ATTEMPT HAS BEEN MADE AS PART OF THIS PLAT AND THE SURVEY ON WHICH IT IS BASED TO DISCLOSE THE LOCATIONS, SIZE, TYPE OR CONDITION OF ANY TREE, HEDGE, GROUND COVER, LAWN, PLANTINGS OR ANY OTHER LANDSCAPING OR SPRINKLER HEADS, PIPES OR ANY APPURTENANT PARTS THEREOF. ADDITIONAL LANDSCAPING OR IRRIGATION FACILITIES MAY EXIST.
 - CONTRACTOR MUST OBTAIN A PERMIT BEFORE BEGINNING WORK WITHIN THIRTY FEET OF AN ESTABLISHED COUNTY SURVEY MONUMENT, PER UTAH STATE CODE 17-23-14 SUBSECTIONS 2 AND 4.

LEGEND

- BP---BP--- EXISTING BURIED POWER LINE
- OP---OP--- EXISTING OVERHEAD POWER LINE
- SD---SD--- EXISTING STORM DRAIN LINE
- SS---SS--- EXISTING SEWER LINE
- W---W--- EXISTING WATER LINE
- BT---BT--- EXISTING BURIED TELEPHONE LINE
- CTV---CTV--- EXISTING CABLE LINE
- FO---FO--- EXISTING FIBER OPTIC LINE
- G---G--- EXISTING GAS LINE
- IRR---IRR--- EXISTING IRRIGATION LINE
- O---O--- EXISTING CHAIN LINK FENCE
- ===== EXISTING CURB & GUTTER
- - - - - XXXX' - - - - - EXISTING MAJOR CONTOUR LINE
- - - - - XXXX' - - - - - EXISTING MINOR CONTOUR LINE
- [Hatched Box] EXISTING CONCRETE
- [Solid Box] EXISTING BUILDING
- [Box with E] EXISTING ELECTRICAL BOX
- [Box with I] EXISTING IRRIGATION BOX
- [Box with T] EXISTING TELEPHONE PEDestal
- [Box with B] EXISTING CABLE TV BOX
- [Box with S] EXISTING SEWER MANHOLE
- [Box with SD] EXISTING STORM DRAIN MANHOLE
- [Box with W] EXISTING WATER MANHOLE
- [Box with E] EXISTING ELECTRICAL MANHOLE
- [Box with G] EXISTING GAS MANHOLE
- [Box with C] EXISTING CLEAN OUT
- [Box with M] EXISTING CATCH BASIN
- [Box with W] EXISTING WATER METER
- [Box with G] EXISTING GAS METER
- [Box with EM] EXISTING ELECTRICAL METER
- [Box with L] EXISTING LIGHT POLE
- [Box with GW] EXISTING GUY WIRE
- [Box with GP] EXISTING GATE POST
- [Box with S] EXISTING SIGN
- [Box with V] EXISTING GAS VALVE
- [Box with B] EXISTING BOLLARD
- [Box with ET] EXISTING ELECTRICAL TRANSFORMER
- [Box with AC] EXISTING AIR CONDITIONER
- [Box with WV] EXISTING WATER VALVE
- [Box with FH] EXISTING FIRE HYDRANT
- [Box with CM] CONTROL MONUMENT



0 40 80
SCALE 1"=40'

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PROFESSIONAL STAMP

DATE ISSUED:
02/27/24

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PHONE: (801) 569-1319 FAX: (801) 569-1319

NOT FOR CONSTRUCTION

OWNER INFORMATION

CANYONS SCHOOL DISTRICT

PROJECT TITLE AND ADDRESS

REVISIONS	
DESCRIPTION	DATE

PROJECT INFORMATION

DATE:

PROJECT #:

DRAWN BY:

PM / PA:

DRAWING SET STATUS

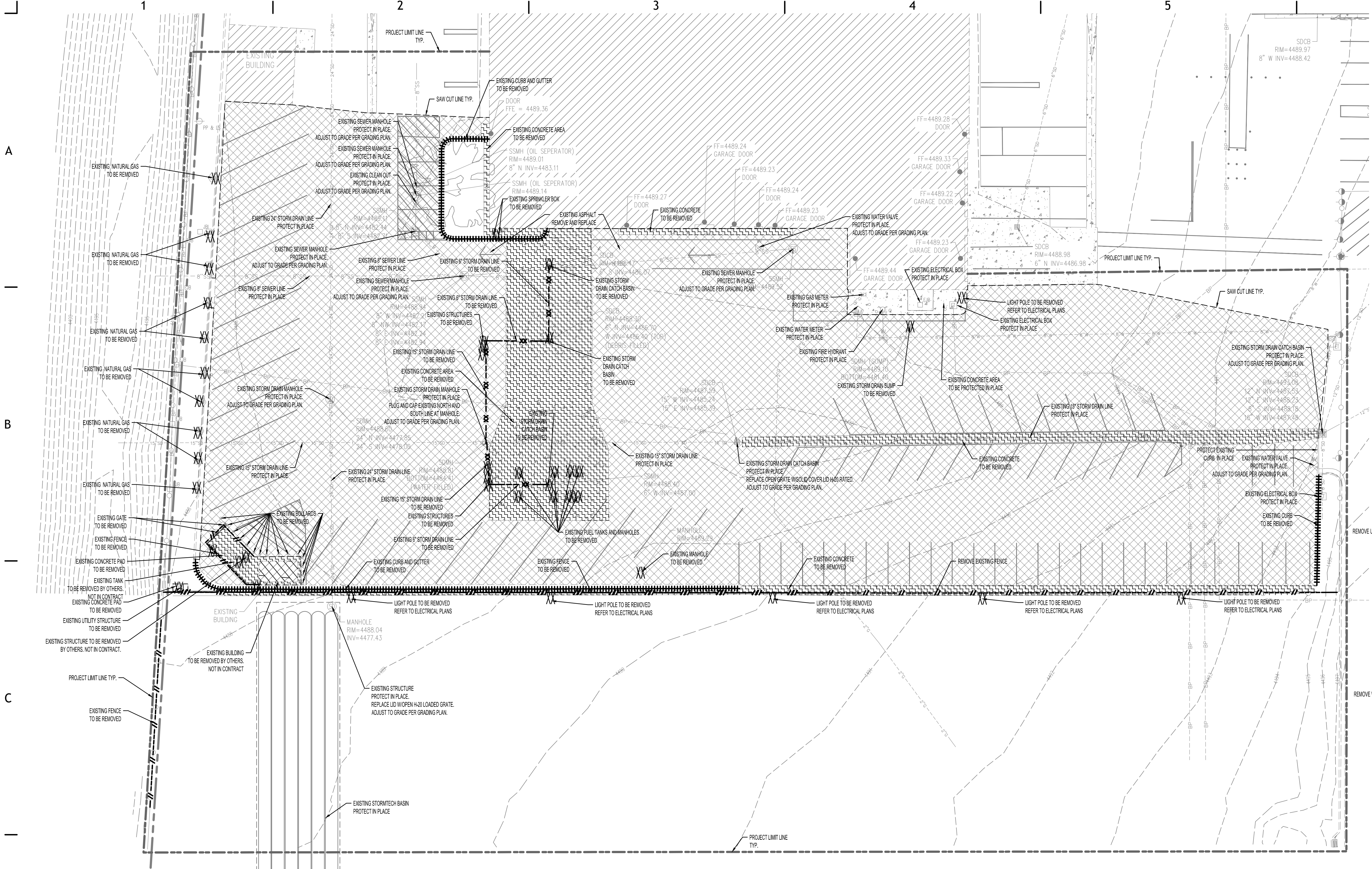
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SHEET TITLE

EXISTING SURVEY & TOPOGRAPHY

SHEET NUMBER

C200



SITE DEMOLITION PLAN NOTES

- COORDINATE ALL UTILITY INFORMATION WITH OWNER. THE COORDINATES SHOWN ON THE PLANS ARE BASED ON SURVEY CONTROL AND TOPOGRAPHIC SURVEY COMPLETED BY MERIDIAN. REFER TO EXISTING TOPOGRAPHIC PLAN FOR SURVEY CONTROL ON SHEET C200.
- REFER TO SITE LAYOUT PLANS ON SHEET CS203.
- SIDEWALK REMOVAL AND REPLACEMENT TO BE AS INDICATED ON THE SITE PLAN AND WILL MATCH EXISTING SIDEWALK WIDTHS.
- EXCAVATION ADJACENT TO TREES SHALL BE A MINIMUM OF 8' FROM THE CENTER OF THE TREE OR THE TREE DRIP LINE AS DIRECTED BY THE OWNER'S REPRESENTATIVE. IF TREE ROOTS ARE ENCOUNTERED NEAR TREES TO REMAIN, COORDINATE TREE ROOT PRUNING WITH OWNER WHENEVER TREE ROOTS MAY BE ENCOUNTERED BY EXCAVATION. DO NOT COVER TREE ROOTS DAMAGED BY EXCAVATION NEAR TREE THAT ARE TO REMAIN. WHERE NECESSARY FOR EQUIPMENT OPERATION, TREE MAY BE TRIMMED. COORDINATE ANY TRIMMING OF TREES TO REMAIN WITHIN LANDSCAPE PLANS AND OWNER. HAND EXCAVATING FOR UTILITIES MAY BE NECESSARY TO KEEP TREES INDICATED TO BE PROTECTED IN PLACE.
- ALL WORK WITHIN CITY ROAD ROW SHALL MEET CITY STANDARDS AND SPECIFICATIONS. OBTAIN CITY PERMIT PRIOR TO ANY WORK WITHIN CITY ROAD RIGHT OF WAY. OBTAIN ALL NECESSARY EXCAVATION PERMITS AND PROVIDE NECESSARY TRAFFIC CONTROL MEASURES PER CITY REQUIREMENTS.

UTILITY DEMOLITION NOTES

- REMOVE UTILITIES ONLY AFTER NEW TEMPORARY UTILITY LINES HAVE BEEN REROUTED AND CONNECTED.
- REFER TO THE ELECTRICAL PLANS FOR SITE DEMOLITION OF EXISTING TRANSFORMERS, ELECTRICAL LINES, EXISTING LIGHTING, ELECTRICAL EQUIPMENT INSIDE OR OUTSIDE THE PROJECT LIMITS.
- ALL EXISTING UTILITIES OR SURFACE IMPROVEMENTS SHALL BE RETAINED AND PROTECTED DURING CONSTRUCTION, UNLESS NOTED OTHERWISE. ANY DAMAGE TO THE UTILITIES OR SURFACE IMPROVEMENTS SHALL BE REPAIRED WITH NEW MATERIALS AT NO ADDITIONAL COST TO THE OWNER. ALL INTERRUPTIONS OF UTILITIES SERVICE WILL BE COORDINATED WITH THE OWNER AT LEAST ONE WEEK IN ADVANCE. NIGHTTIME INTERRUPTIONS OF A SERVICE MAY BE NECESSARY TO SUCCESSFULLY COMPLETE NEW UTILITY CONNECTIONS.
- UTILITIES ABANDONED IN PLACE UNDER PAVEMENT OR CONCRETE IMPROVEMENTS SHALL HAVE SAND BLOWN INTO THE ABANDONED PIPING. ALL OPEN ENDS OF ABANDONED PIPING SHALL BE PLUGGED AND CAPPED. REPAIR EXISTING MANHOLES AND INLETS WHERE PIPING IS REMOVED AS PART OF THE DEMOLITION. PLUG AND GROUT (EPOXY GROUT) HOLES IN THE EXISTING STRUCTURES. CORE DRILL AND EPOXY GROUT ALL NEW PIPING INTO EXISTING CONCRETE STRUCTURES.
- BACKFILL ALL EXCAVATIONS FOR UTILITY PIPING OR STRUCTURE REMOVAL (MANHOLES, INLETS, ETC.) WITH STRUCTURAL FILL TO THE ROUGH GRADE ELEVATION SHOWN ON GRADING PLANS.

DEMOLITION LEGEND

REMOVE UTILITY STRUCTURES, LIGHTS, ETC.	XX
REMOVE TREES	X
PLUG AND CAP	J
PROJECT LIMIT LINE	---
TEMPORARY PROJECT LIMIT LINE	---
SAWCUT	---
REMOVE UTILITY	XX XX XX
ABANDON UTILITY IN PLACE	~~~~~
REMOVE FENCING	==
REMOVE WALL, CURBING, CURB AND GUTTER	
REMOVE EXISTING BUILDING	
REMOVE EXISTING ASPHALT	
REMOVE EXISTING CONCRETE	

REVISIONS

DESCRIPTION	DATE

PROJECT INFORMATION

DATE: 28 MARCH 2024
PROJECT #: 23-089
DRAWN BY: MEI
PM / PA: NLL

DRAWING SET STATUS
BID DOCUMENTS

THIS DRAWING SET IS INTENDED TO BE PRINTED IN COLOR

SHEET TITLE

OVERALL SITE AND UTILITY DEMOLITION PLAN

SHEET NUMBER
CS210

CORE ARCHITECTURE

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PROFESSIONAL STAMP

STATE OF UTAH
03-28-2024
NICHOLE LEE LUTHE
8023335

CONSULTANT INFORMATION

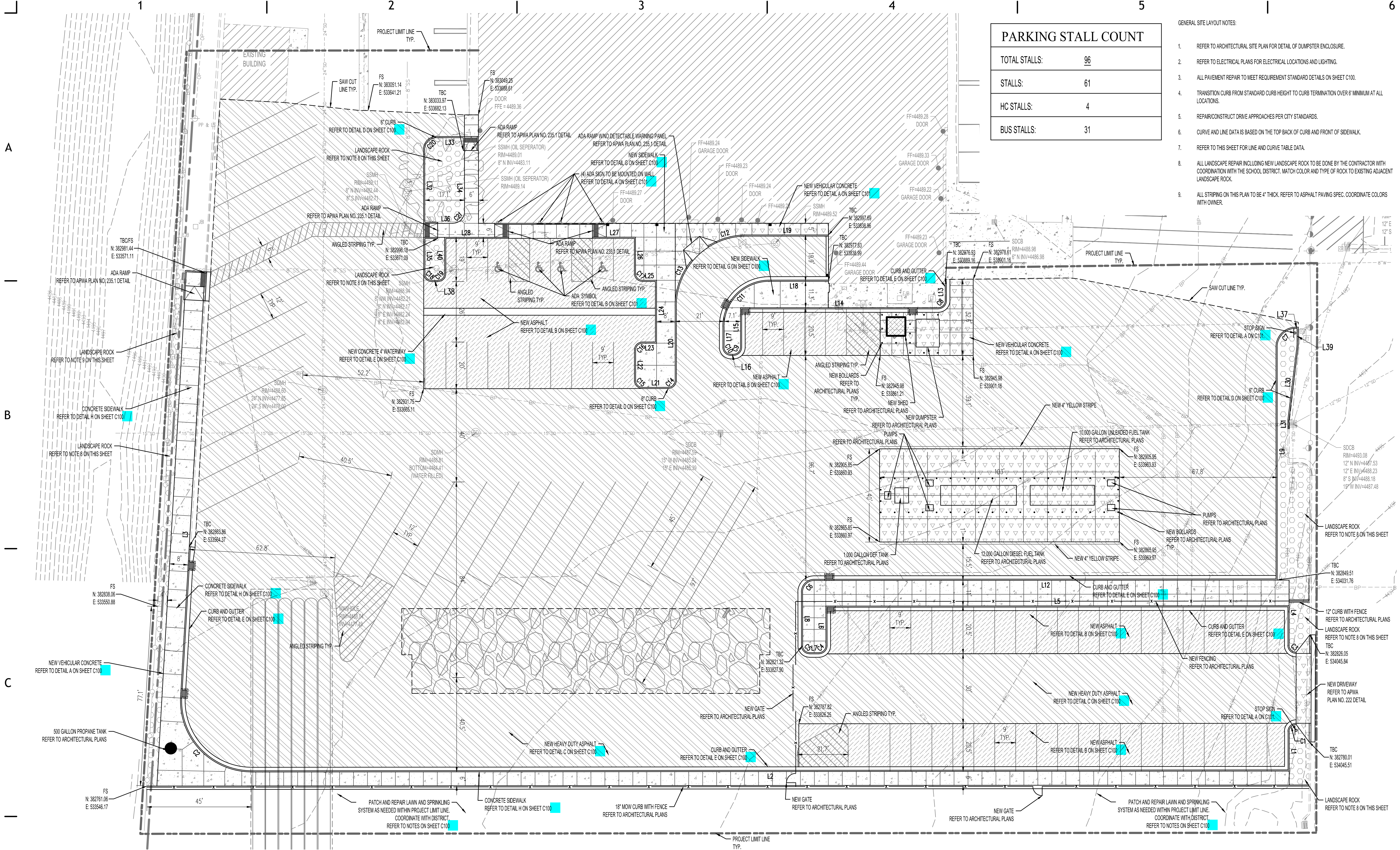
MERIDIAN ENGINEERING, INC.
100 WEST 1100 SOUTH, SUITE 110
SOUTH JORDAN, UTAH 84095
PHONE: (801) 559-1515 FAX: (801) 559-1519

CANYONS SCHOOL DISTRICT

CS210

200 EAST 9300 SOUTH
SANDY, UTAH 84070

BACK TO <



PARKING STALL COUNT	
TOTAL STALLS:	96
STALLS:	61
HC STALLS:	4
BUS STALLS:	31

- GENERAL SITE LAYOUT NOTES:
- REFER TO ARCHITECTURAL SITE PLAN FOR DETAIL OF DUMPSTER ENCLOSURE.
 - REFER TO ELECTRICAL PLANS FOR ELECTRICAL LOCATIONS AND LIGHTING.
 - ALL PAVEMENT REPAIR TO MEET REQUIREMENT STANDARD DETAILS ON SHEET C100.
 - TRANSITION CURB FROM STANDARD CURB HEIGHT TO CURB TERMINATION OVER 8" MINIMUM AT ALL LOCATIONS.
 - REPAIR/CONSTRUCT DRIVE APPROACHES PER CITY STANDARDS.
 - CURVE AND LINE DATA IS BASED ON THE TOP BACK OF CURB AND FRONT OF SIDEWALK.
 - REFER TO THIS SHEET FOR LINE AND CURVE TABLE DATA.
 - ALL LANDSCAPE REPAIR INCLUDING NEW LANDSCAPE ROCK TO BE DONE BY THE CONTRACTOR WITH COORDINATION WITH THE SCHOOL DISTRICT. MATCH COLOR AND TYPE OF ROCK TO EXISTING ADJACENT LANDSCAPE ROCK.
 - ALL STRIPING ON THIS PLAN TO BE 4" THICK. REFER TO ASPHALT PAVING SPEC. COORDINATE COLORS WITH OWNER.



233 SOUTH PLEASANT GROVE BLVD.
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PROFESSIONAL STAMP

CONSULTANT INFORMATION

MERIDIAN ENGINEERING, INC.
100 WEST 1100 SOUTH, SUITE 100
SOUTH JORDAN, UTAH 84095
PHONE: (801) 559-1515 FAX: (801) 559-1519

CANYONS SCHOOL DISTRICT

PROJECT TITLE AND ADDRESS

CSD TRANSPORTATION
FUEL STATION
RELOCATION

200 EAST 9300 SOUTH
SANDY-UTAH-84070

REVISIONS	
Δ DESCRIPTION	DATE

PROJECT INFORMATION

DATE: 28 MARCH 2024

PROJECT #: 23-089

DRAWN BY: MEI

PM / PA: NLL

DRAWING SET STATUS
BID DOCUMENTS

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TO BE PRINTED IN COLOR

SHEET TITLE

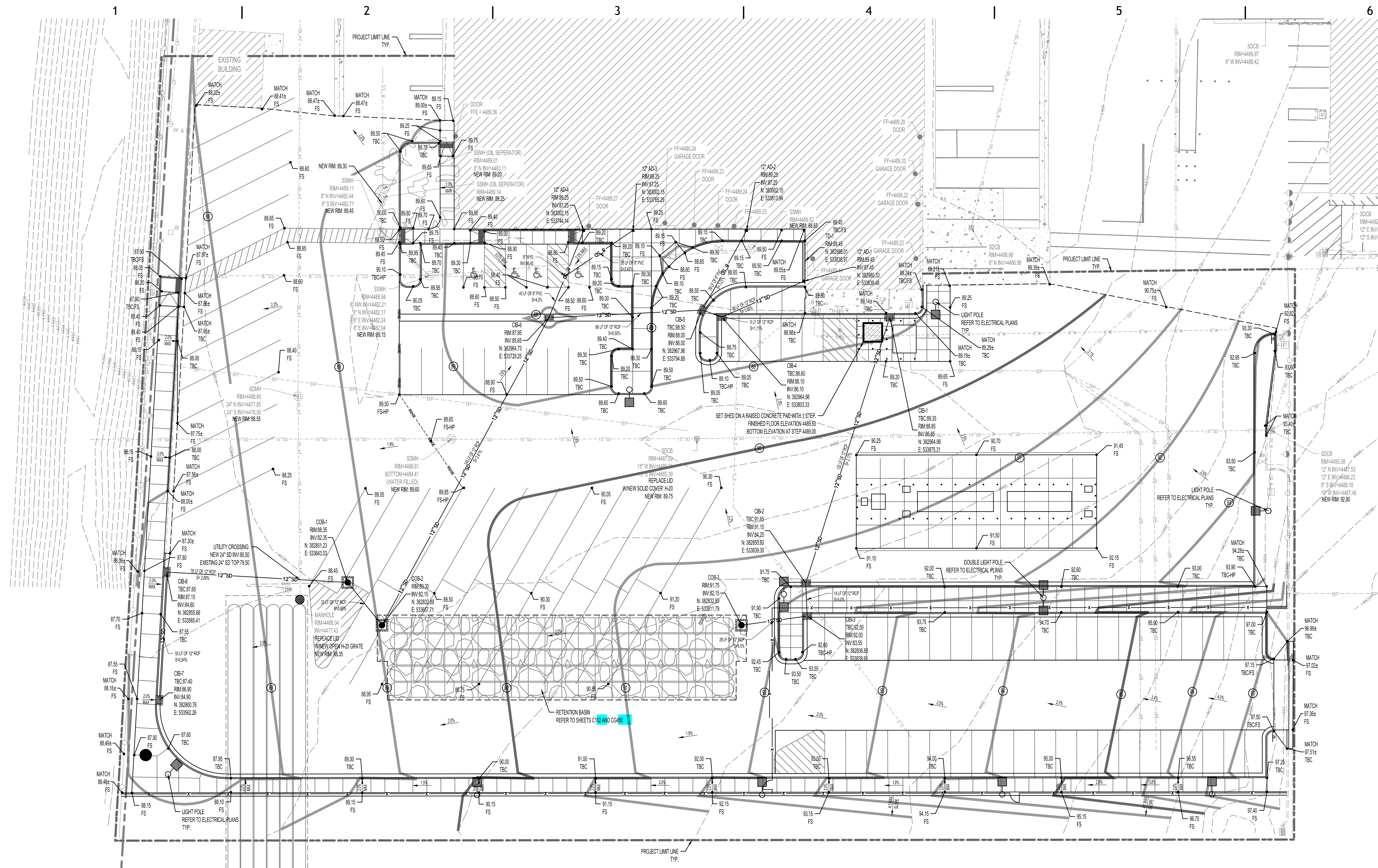
OVERALL SITE
LAYOUT PLAN

SHEET NUMBER
CS230

HATCH LEGEND

	VEHICULAR CONCRETE PER DETAIL A ON SHEET C100		24\"/>
	ASPHALT PAVEMENT SEE DETAIL B ON SHEET C100		3\"/>
	HEAVY DUTY ASPHALT PAVEMENT SEE DETAIL C ON SHEET C100		SIDEWALK PER DETAIL G ON SHEET C100
	6\"/>		NEW UNDERGROUND DETENTION BASIN REFER TO SHEETS C102 AND C049

 | TBC Line Table | | | |----------------|--------|--------------------| | L# | L | Bearing | | L1 | 17.03 | N0° 03' 33.71\"/> | | L2 | 445.79 | N89° 56' 50.58\"/> | | L3 | 176.38 | S3° 16' 35.41\"/> | | L4 | 28.16 | S0° 01' 47.03\"/> | | L5 | 199.00 | S89° 56' 50.58\"/> | | L6 | 17.00 | S0° 03' 09.42\"/> | | L7 | 4.00 | S89° 56' 50.58\"/> | | L8 | 23.00 | S0° 03' 09.42\"/> | | L9 | 100.08 | S0° 00' 00.00\"/> | | L12 | 198.89 | S89° 56' 50.58\"/> | | TBC Line Table | | | |----------------|-------|--------------------| | L# | L | Bearing | | L13 | 7.45 | S0° 00' 00.00\"/> | | L14 | 84.95 | N90° 00' 00.00\"/> | | L15 | 17.00 | S0° 00' 00.00\"/> | | L16 | 1.07 | N90° 00' 00.00\"/> | | L17 | 8.83 | S0° 00' 00.00\"/> | | L18 | 25.37 | S89° 56' 50.58\"/> | | L19 | 35.32 | S89° 59' 24.15\"/> | | L20 | 31.95 | N0° 00' 00.00\"/> | | L21 | 10.99 | N89° 56' 50.58\"/> | | L22 | 13.00 | S0° 03' 09.42\"/> | | TBC Line Table | | | |----------------|-------|--------------------| | L# | L | Bearing | | L23 | 6.00 | N90° 00' 00.00\"/> | | L24 | 27.00 | S0° 00' 00.00\"/> | | L25 | 6.03 | N90° 00' 00.00\"/> | | L26 | 15.52 | S0° 03' 09.42\"/> | | L27 | 18.50 | N89° 56' 50.58\"/> | | L28 | 36.50 | S89° 56' 50.58\"/> | | L30 | 31.90 | N6° 58' 36.47\"/> | | L31 | 3.91 | N0° 00' 00.00\"/> | | L32 | 31.27 | N0° 03' 09.42\"/> | | L33 | 11.57 | S89° 54' 04.22\"/> | | TBC Line Table | | | |----------------|-------|--------------------| | L# | L | Bearing | | L34 | 41.58 | S0° 03' 22.84\"/> | | L35 | 15.28 | S0° 03' 09.42\"/> | | L36 | 12.56 | S89° 57' 48.73\"/> | | L37 | 0.57 | N90° 00' 00.00\"/> | | L38 | 2.51 | N90° 00' 00.00\"/> | | L39 | 6.57 | N0° 00' 00.00\"/> | | L40 | 15.50 | N0° 03' 09.42\"/> | | TBC Curve Table | | | | | | |-----------------|-------|-------|------------|-----------------|---------| | C# | L | R | Δ | Chord Bearing | Chord L | | C1 | 4.71 | 3.00 | 090°00'00" | S44° 56' 51\"/> | 4.24 | | C2 | 49.68 | 30.50 | 093°19'45" | S43° 23' 17\"/> | 44.37 | | C3 | 4.71 | 3.00 | 090°00'00" | S45° 03' 09\"/> | 4.24 | | C4 | 4.71 | 3.00 | 090°00'00" | N44° 56' 51\"/> | 4.24 | | C5 | 4.71 | 3.00 | 090°00'00" | S45° 03' 09\"/> | 4.24 | | C6 | 7.85 | 5.00 | 090°00'00" | S44° 56' 51\"/> | 7.07 | | C7 | 12.57 | 8.00 | 090°00'00" | S45° 00' 00\"/> | 11.31 | | C8 | 4.71 | 3.00 | 090°00'00" | N45° 00' 00\"/> | 4.24 | | C9 | 4.71 | 3.00 | 090°00'00" | N45° 00' 00\"/> | 4.24 | | C10 | 4.71 | 3.00 | 090°00'00" | S45° 00' 00\"/> | 4.24 | | C11 | 30.61 | 19.50 | 089°56'51" | S44° 58' 25\"/> | 27.56 | | TBC Curve Table | | | | | | |-----------------|-------|-------|------------|-----------------|---------| | C# | L | R | Δ | Chord Bearing | Chord L | | C12 | 17.40 | 30.50 | 032°40'41" | S73° 40' 03\"/> | 17.16 | | C13 | 21.48 | 30.50 | 040°21'26" | S20° 10' 43\"/> | 21.04 | | C14 | 4.71 | 3.00 | 089°56'51" | N44° 58' 25\"/> | 4.24 | | C15 | 4.71 | 3.00 | 090°00'00" | S45° 03' 09\"/> | 4.24 | | C16 | 4.72 | 3.00 | 090°03'09" | S44° 58' 25\"/> | 4.24 | | C17 | 4.71 | 3.00 | 089°56'51" | S45° 01' 35\"/> | 4.24 | | C18 | 4.42 | 3.00 | 084°27'19" | S47° 46' 20\"/> | 4.03 | | C19 | 4.72 | 3.00 | 090°03'09" | N44° 58' 25\"/> | 4.24 | | C20 | 7.85 | 5.00 | 089°57'14" | S44° 55' 27\"/> | 7.07 | | C21 | 7.86 | 5.00 | 090°01'12" | S44° 57' 13\"/> | 7.07 | |

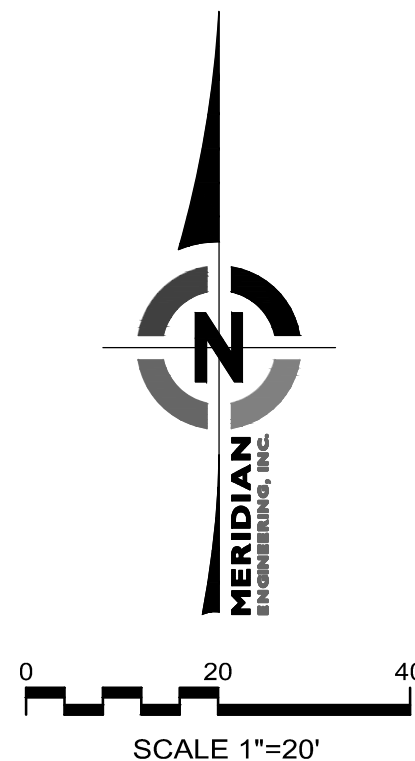


THE CONTRACTOR TO SCHEDULE THE ENGINEER OF RECORD IN WRITING 3 DAYS MINIMUM BEFORE PLACEMENT OF CONCRETE CURBING, FLATWORK, OR ASPHALT PAVING. ALL AREAS MUST BE FORMED AND HAVE COMPACTED BASE COURSE IN PLACE FOR THE ENGINEER TO COMPLETE A RANDOM SPOT GRADE CHECK BEFORE ASPHALT AND CONCRETE CONSTRUCTION. THE RANDOM GRADE CHECKS ARE FOR GENERAL CONFORMANCE TO SLOPES AND GRADING SHOWN ON PLANS USING A SMART LEVEL. RANDOM CHECKS DO NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GRADING IS IN CONFORMANCE WITH PLANS AND SPECIFICATIONS AND SATISFY PERFORMANCE OF HIS WORK. WITHIN 2 DAYS OF THE RANDOM SPOT CHECK, RESULTS OF THE SPOT CHECKS AND AREAS OF NON COMPLIANCE WILL BE PROVIDED TO THE CONTRACTOR AND ARCHITECT.

GRADING LEGEND	
	MAJOR CONTOUR
	MINOR CONTOUR

STRUCTURE LABEL	DETAIL #
AD - 12" AREA DRAIN	DETAIL D SHEET C101
CIB - CLEAN OUT BOX	DETAIL E SHEET C101
CIB - CURB AND GUTTER INLET	DETAIL C SHEET C101
TD - TRENCH DRAIN	SEE NOTE 18 ON SHEET CG401

NOTE:
1- REFER TO GENERAL GRADING NOTES AND GENERAL UTILITY NOTES ON SHEET CG401



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PROFESSIONAL STAMP

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CANYONS SCHOOL DISTRICT

PROJECT TITLE AND ADDRESS

**CSD TRANSPORTATION
FUEL STATION
RELOCATION**

200 EAST 9300 SOUTH
SANDY-UTAH-84707

REVISIONS	
DESCRIPTION	DATE

PROJECT INFORMATION	
DATE:	28 MARCH 2024
PROJECT #:	23-089
DRAWN BY:	MEI
PM / PA:	NLL

DRAWING SET STATUS
BID DOCUMENTS

THIS DRAWING SET IS INTENDED
TO BE PRINTED IN COLOR

SHEET TITLE

OVERALL
GRADING AND
UTILITY PLAN

SHEET NUMBER
CG400

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GENERAL GRADING NOTES:

- REFER TO SHEET ARCHITECTURAL SITE PLAN DETAILS FOR RAISED PLANTERS, FLUSH CURB, AND SITE FENCING WITH MON STRIP.
- CONTOURS OF THE SITE ARE BASED ON A SURVEY BY MERIDIAN ENGINEERING, INC., REFER TO SHEET **CG401** FOR PROJECT BENCH MARK AND BASIS OF BEARING.
- PROVIDE APPROVED SILT PROTECTION FOR ALL NEW AND EXISTING CATCH BASINS UNTIL LANDSCAPING IS WELL ESTABLISHED AND PARKING IS COMPLETE. THE PIPING SYSTEM SHALL BE CLEANED OUT BEFORE FINAL APPROVAL. USE MIRAFI "DANDY BAG" OR ANOTHER APPROVED EQUIVALENT FOR EXISTING INLET PROTECTION. REFER TO SHEET **CS300** AND **CS410**.
- DIMENSIONS OR COORDINATES ARE TO THE CENTER OF CATCH BASINS FOR AREA INLETS AND AT THE CENTER OF THE CATCH BASIN AT TBC FOR INLETS IN CURB AND GUTTER.
- HANDICAP PARKING AREA SHALL NOT EXCEED 2% IN ANY DIRECTION. THE PERPENDICULAR CROSS SLOPE TO PARKING STALL IN OTHER AREAS OF THE PARKING LOT SHALL NOT EXCEED 4% IN SLOPE AND SLOPE SHALL NOT EXCEED 6% IN ANY DIRECTION FOR DRIVEWAYS.
- ALL WALKWAYS SHALL NOT EXCEED 5% SLOPE. THE PERPENDICULAR CROSS SLOPE TO NOT EXCEED 2% MAX. SLOPE FOR WALKWAYS 2% MAX. FROM BUILDING OR STAIR RISERS FOR 5' MINIMUM. ALSO SLOPE 2% MAX FOR 5' AT THE END OF THE 1:12 SLOPE OF ALL H.C. RAMPS.
- REFER TO SHEET **CS300** FOR SITE LAYOUT PLAN.
- PIPING LENGTHS ARE APPROXIMATE LENGTHS AND ARE ROUNDED TO THE NEAREST FOOT. LENGTHS ARE FROM CENTER TO CENTER OF INLETS OR CLEANOUTS. PIPE SLOPES ARE ALSO APPROXIMATE. USE INVERTS AT EACH BOX FOR CONTROL OF PIPE INSTALLATION.
- "TBC" IS TOP BACK OF CURB ELEVATIONS. "FS" IS FINISH SURFACE ELEVATIONS. "TOC" IS TOP OF CONCRETE ELEVATIONS. "TOW" IS TOP OF WALL ELEVATIONS. "BOT" IS FINISH SURFACE AT BOTTOM OF WALL ELEVATIONS. "FL" IS FLOW LINE.
- TRANSITION FACE OF CURB TO BE FLUSH TO ADJACENT FINISHED SURFACE WHERE INDICATED BY "TBC/FS" TO FULL HEIGHT OVER 5' (MIN).
- PLACE CONCRETE COLLAR AROUND ALL NEW CATCH BASINS OR CLEANOUTS (NOT IN CURB AND GUTTER). COLLAR TO BE 1" MINIMUM WIDTH AND SHALL BE 8" MINIMUM THICKNESS. PLACE 2 #4 BARS AROUND OPENING. SEE DETAIL I ON SHEET C100.
- ALL SODDED LANDSCAPE REPAIRS SHALL HAVE 4" MINIMUM OF TOPSOIL.
- REFER TO SHEET **CS100** AND **CS200** FOR REQUIRED PAVEMENT SECTIONS.
- DO NOT DRIVE HEAVY EQUIPMENT OR TRUCKS OVER EXCAVATED SUBGRADE. SOFT AREAS CAUSED BY ROUTING HEAVY EQUIPMENT OR TRUCKS OVER SUBGRADE WILL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. REPAIRS TO BE COMPLETED AS OUTLINED IN THE SPEC SECTION WITH UP TO 2" OF IMPORTED STRUCTURAL GRANULAR FILL TO STABILIZE SOFT AREAS CAUSED BY ROUTING HEAVY EQUIPMENT OR TRUCKS OVER EXCAVATED SUBGRADE.
- SITE SOILS MAY NOT SUPPORT CONSTRUCTION TRAFFIC DURING WET PERIODS OF THE YEAR. CONTRACTOR WILL BE RESPONSIBLE TO PLACE GRANULAR FILL AND/OR COBBLE MATERIALS AS NECESSARY TO MAINTAIN ACCESS TO THE SITE OR BUILDING THROUGHOUT THE CONSTRUCTION SITE AT ALL TIMES. EXCESS MATERIAL SHALL BE REMOVED AS REQUIRED TO COMPLETE THE SITE TO THE GRADES SHOWN ON GRADING PLANS. ALSO REFER TO GEOTECHNICAL INVESTIGATION SHEETS FOR SITE SOIL PREPARATION REQUIREMENTS.
- PROVIDE TEMPORARY STORM DRAIN PUMPING, PONDING, BERMING, PIPING AND INLETS OR OTHER MEASURES TO RETAIN CONSTRUCTION STORM DRAIN RUNOFF ON SITE DURING CONSTRUCTION UNTIL THE NEW SYSTEM IS OPERATIONAL. ALL CONSTRUCTION SITE RUNOFF TO HAVE HEAVY SEDIMENT REMOVED PRIOR TO RELEASING TO EXISTING SITE DRAIN SYSTEM. PROTECT ADJACENT BUILDING FROM CONSTRUCTION RUNOFF AT ALL TIMES.
- THERE SHOULD BE NO STANDING WATER ONSITE. ALL STORM WATER SHALL DRAIN TO AN INLET OR AREA DRAIN. CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD IF ANY LOW SPOTS THAT DO NOT DRAIN ARE ENCOUNTERED. A WATER TEST WILL BE PERFORMED BY THE CONTRACTOR WITH THE ENGINEER OF RECORD IN ATTENDANCE OR A SURVEY OF THE NEW IMPROVEMENTS PROVIDED TO THE ENGINEER AT COMPLETION OF THE PROJECT TO VERIFY THAT ALL STORM DRAIN WATER DRAINS AS DESIGNED.
- ALL "MATCH" LOCATIONS INDICATE THAT THE CONTRACTOR IS TO MATCH THE EXISTING GRADE. AN APPROXIMATE ESTIMATE IS PROVIDED BY THE ENGINEER BASED ON AN INTERPOLATION OF NEAREST SPOT ELEVATIONS PROVIDED BY THE SURVEY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE ELEVATIONS. IF THE ELEVATION PROVIDED BY THE ENGINEER VARIES GREATLY FROM THE ACTUAL ELEVATION FOUND BY THE CONTRACTOR THE CONTRACTOR IS TO NOTIFY THE ENGINEER SO THAT THE ENGINEER CAN PROVIDE FURTHER DIRECTION.
- GRADE UNIFORMLY BETWEEN SPOT ELEVATIONS AND CONTOURS UNLESS NOTED OTHERWISE. IF ANY QUESTIONS ARISE ABOUT THE PROPOSED GRADING SHOWN ON PLANS CONTACT THE ENGINEER OF RECORD BEFORE FIELD GRADING.
- MAINTAIN DRAINAGE FROM ALL EXISTING ROOF DRAINS DURING CONSTRUCTION OF ALL PHASES. PROVIDE TEMPORARY MEASURES OF NEW PIPING, PUMPING, OR OTHER METHODS TO MAINTAIN DRAINAGE FROM ALL EXISTING ROOF DRAIN WHILE NEW PIPING SYSTEMS OUTFALLS ARE COMPLETED.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL STUDY REFERENCED IN PLAN SET. CONTRACTOR SHALL SUBMIT A COMPACTION REPORT PREPARED BY A QUALIFIED SOILS ENGINEER, REGISTERED WITHIN THE STATE WHERE THE WORK IS BEING

PERFORMED, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS WITHIN HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH IN THE SOIL REPORT.

- ADS INJECTION MOLDED 45" REDUCER WYE (OR APP EQUIVALENT) FLOWABLE FILL TO BE PLACED AROUND EACH WYE CONNECTION. TYP.
- NO STORM WATER TO ENTER THE RETENTION BASIN UNTIL THE PIPING SYSTEM HAS BEEN INSTALLED. CONTRACTOR TO CLEAN ENTIRE SYSTEM BEFORE IT IS ATTACHED TO THE RETENTION BASIN.
- NOTIFY ENGINEER OF RECORD IF THERE ARE ANY CONFLICTS WITH UTILITY LINES OR IF ASSUMED INVERTS VARY. FOR FURTHER COORDINATION, SEWER AND WATER LINES TO HAVE 18" SEPARATION WITH WATER OVER SEWER. ALL OTHER UTILITIES TO HAVE 12" SEPARATION MIN. IF 12" SEPARATION CANNOT BE ACHIEVED UTILITIES TO HAVE FLOWABLE FILL BETWEEN THE UTILITY LINES 5' EACH WAY.
- CONTRACTOR IS RESPONSIBLE TO INFORM THE ENGINEER OF RECORD IF THE GRADES SHOWN ON THE SURVEY DO NOT MEET THE ACTUAL GRADES IN THE FIELD.
- ALL STRUCTURE LIDS WITHIN THE PROJECT LIMITS WILL NEED TO HAVE THEIR GRADE ADJUSTED. WATER VALVES, SEWER MANHOLES, STORM DRAIN INLETS OR CLEANOUT BOXES, AND OTHER SURFACE UTILITY ACCESSORIES SHALL BE RAISED AND SLOPED TO ACCURATE FINISH SURFACE BY A CONCRETE GRADE COLLAR IN PAVEMENT. COLLAR SHALL BE 12" WIDE AROUND THE UTILITY APPARATUS AND 8" MINIMUM THICKNESS. PLACE 2 #4 REBAR HOOPS IN COLLAR. CONCRETE COLLARS TO BE USED ONLY IN ASPHALT/CONCRETE AND GRASS PAVEMENT AREAS.
- RESTORE SOD AND SPRINKLER SYSTEM AROUND NEW IMPROVEMENTS IN LANDSCAPE. SPRINKLER SYSTEM MUST BE MAINTAINED AND REMAIN IN SERVICE FOR REMAINDER OF GRASS AREA DURING CONSTRUCTION.
- REMOVE AND REPLACE ANY DAMAGED CURB, GUTTER, OR SIDEWALK ALONG FRONTAGE BEFORE FINAL INSPECTION.
- ALL GUTTERS TO SLOPE 0.5% MINIMUM TOWARDS CURB INLET BOX. CONTRACTOR TO NOTIFY ENGINEER OF RECORD IF THE PROPOSED GRADE DOES NOT MEET 0.5% SLOPE IN GUTTER.
- SPOT ELEVATION PREFIX OF 45 OR 44 HAS BEEN DROPPED FROM THE ELEVATIONS IE: ELEVATION 00.00 + 4500.00 AND 94.50 + 4406.50.

GENERAL UTILITY NOTES:

- ALL PROPOSED SITE ELECTRICAL EQUIPMENT STRUCTURES AND LINES SHOWN ON CIVIL PLANS ARE SCHEMATICALLY SHOWN ONLY AS A COORDINATION BETWEEN ELECTRICAL AND CIVIL. PLEASE REFER DIRECTLY TO ELECTRICAL PLANS FOR THE LAYOUT AND DETAILS OF ALL SITE ELECTRICAL EQUIPMENT AND LINES.
- COORDINATES FOR FIRE HYDRANTS, CURB INLETS, CATCH BASINS, OR CLEAN OUTS ARE AT THE CENTER OF THE UTILITY STRUCTURE. ALL STORM DRAIN BOXES ARE 3'X3', UNLESS OTHERWISE NOTED OR THOSE INLETS PLACES IN CURB AND GUTTER.
- ALL CONSTRUCTION, PIPING MATERIALS AND INSTALLATION TO BE:

STORM DRAIN:

- APWA AND SANDY MUNICIPALITY STANDARD: RCP FOR 12" OR LARGER PIPE (CLASS III). SITE STORM DRAIN LINES 8" OR SMALLER TO BE PVC PIPE (SDR 35).

RETENTION BASIN:

- SEE DETAILS ON SHEET **C102**

- USE FLOWABLE FILL BETWEEN UTILITY CROSSINGS THAT ARE LESS THAN 12" SEPARATION. ALL GRAVITY LINES MUST BE INSTALLED BEFORE PRESSURIZED LINES.
- POTHOLE ALL EXISTING UTILITY CROSSINGS PRIOR TO ROUTING ANY NEW UTILITIES. ALL NEW SEWER, DRAINAGE, OR OTHER GRAVITY LINES SHALL BE COMPLETED PRIOR TO ROUTING ANY PRESSURE LINES. WHERE EXISTING UTILITIES CONFLICT WITH NEW GRAVITY LINES, RAISE OR LOWER EXISTING UTILITIES TO ACCOMMODATE NEW GRAVITY LINES. PROVIDE 12" MIN. CLEARANCE BETWEEN WATER AND OTHER UTILITIES. WATER LINES SHALL NOT BE PLACED UNDER SEWER LINES AND SHALL HAVE A MINIMUM OF 18" CLEARANCE OF SEWER.
- USE HS-20 SOLID COVERS ON ALL MANHOLES, CIB, AND CFS. AD AND ADS BOXES TO HAVE PEDESTRIAN TRAFFIC HEEL SAFE GRATE GRATED COVERS EXCEPT AS NOTED. ALL CIB BOXES TO HAVE HS-20 FRAME AND GRATES.
- PROJECT LOCATED IN FEMA FLOOD PLAIN ZONE 48036C0343G EFF. 9/25/2009.
- ALL WYE FITTINGS FOR STORM DRAIN PIPING TO BE FACTORY FABRICATED. WHERE MAIN PIPE IS 8" OR LARGER, USE FLOWABLE FILL 3' UPSTREAM AND DOWNSTREAM FROM ALL FITTINGS. WYE FITTINGS CONNECTING TO PIPE LARGER THAN 8" SHALL BE NEAR THE TOP OF THE MAIN STORM DRAIN PIPE. FLOWABLE FILL MAY TERMINATE 6" ABOVE THE TOP OF THE SMALLER STORM DRAIN PIPE CONNECTION TO THE MAIN PIPE. PROVIDE A MINIMUM OF 18" TOPSOIL COVER OVER TOP OF FLOWABLE FILL IN LANDSCAPE AREAS.
- THE TRENCH DRAIN (TD-1) TO BE A "ZURN Z886-HPO" 6-INCH TRENCH DRAIN WITH HEEL SAFE GRATE OR APPROVED EQUIVALENT. THE DEEP INVERT OF THE TRENCH TO BE 12.5" MINIMUM DEPTH WITH A 4" END OUTLET TO AN AREA DRAIN BOX. SLOPE TRENCH PER MANUFACTURERS STANDARD SLOPE.

SANDY CITY STANDARD WATER NOTES

- NOTIFY SANDY CITY PUBLIC UTILITIES INSPECTOR (801-666-7280) AT LEAST ONE BUSINESS DAY (24 HOURS) PRIOR TO BEGINNING CONSTRUCTION.
- A PRE-CONSTRUCTION MEETING IS REQUIRED ONCE FINAL APPROVAL HAS BEEN GRANTED. THE PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED THROUGH SANDY CITY PUBLIC WORKS DEPARTMENT. SANDY CITY CORPORATION - PROD. 12/18 GC-B-24
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REVISION OF THE SANDY CITY STANDARD SPECIFICATIONS AND DETAILS FOR MUNICIPAL CONSTRUCTION AND/OR OTHER REQUIREMENTS AS SET FORTH IN THE PUBLIC UTILITIES FINAL REVIEW AND APPROVAL LETTER ESTABLISHED FOR THE DEVELOPMENT. SPECIFICATIONS AND DETAILS CAN BE OBTAINED ON THE SANDY CITY WEBSITE.
- SUBMITTALS ARE REQUIRED TO BE APPROVED BY THE ENGINEER FOR ALL BEDDING, BACKFILL, PIPE, METERS, BOXES, VAULTS, VALVES, FIRE HYDRANTS, BLOWOFFS, VAULTS, ETC. RELATING TO THE WATER SYSTEM. SUBMITTALS MUST HAVE SUFFICIENT INFORMATION TO SHOW THAT THE PROPOSED ITEMS CONFORM TO SANDY CITY STANDARDS AND SPECIFICATIONS.
- CONSTRUCTION WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE UTAH POLLUTION DISCHARGE ELIMINATION SYSTEM (UPDES) REGULATIONS.
- WATER LINES SHALL BE INSTALLED 4-FEET OFF LIP OF GUTTER ON THE NORTH AND/OR EAST SIDE OF ROADWAY. WATER LINES SHALL NOT BE INSTALLED WITHIN OR THROUGH PARKING STALLS OR UNDER CONCRETE PAVEMENT, UNLESS WATER LINE IS TO BE MAINTAINED BY PRIVATE PROPERTY OWNER.
- A MINIMUM OF 48-INCHES AND A MAXIMUM BRANCHES OF COVER FROM THE TOP OF THE PIPE TO THE FINISH GRADE IS REQUIRED.
- FOR CONSTRUCTION EAST OF THE UTAH TRANSIT AUTHORITY'S TRAX LINE, USE DUCTILE IRON PIPE. USE THICKNESS CLASS 52 OR BETTER.
- FOR CONSTRUCTION WEST OF UTAH TRANSIT AUTHORITY'S TRAX LINE, USE POLY(VINYL CHLORIDE) (PVC) PIPE, USE CLASS DR-14 OR BETTER. 10 GAUGE WIRE SHALL BE PLACED ON TOP OF THE PIPE (PER SANDY CITY SPECIFICATIONS) FOR FUTURE RELOCATION. NO DEFLECTION IN PIPE JOINTS WILL BE ALLOWED ON PVC PIPES.
- ALL MECHANICAL JOINTS MUST BE RESTRAINED USING MEGA LUGS FOR DIP AND ROMAC GRIP RINGS FOR PVC OR APPROVED EQUAL. MEGA LUGS SHALL NOT BE ALLOWED ON PVC PIPE.
- USE 6-INCH COMPRESSION TYPE HYDRANT BY MUELLER CENTURION OR CLOW MEDALLION. EXISTING HYDRANTS REQUIRED FOR FIRE PROTECTION THAT DO NOT MEET CURRENT STANDARDS SHALL BE UPGRADED TO MEET CURRENT SANDY CITY STANDARDS AND SPECIFICATIONS.
- WHEN THE DISTANCE FROM THE WATER MAIN TO THE FIRE HYDRANT IS GREATER THAN 6-FEET, AN ADDITIONAL AUXILIARY VALVE SHALL BE PLANGED TO THE FIRE HYDRANT.
- ALL DEAD ENDS SHALL BE PLUGGED WITH A 2-INCH WASHOUT OR END WITH A FIRE HYDRANT.
- ALL DUCTILE IRON WATER LINES, FITTINGS, AND VALVES SHALL BE POLY-BAGGED IN ACCORDANCE WITH SANDY CITY STANDARDS AND SPECIFICATIONS.
- ALL WATER LINES SHALL BE BEDDED WITH SAND (6-INCHES MINIMUM BELOW AND 12-INCHES MINIMUM ON EACH SIDE AND ON TOP OF THE PIPE).

SANDY CITY STANDARD STORM WATER NOTES


- NOTIFY SANDY CITY PUBLIC UTILITIES INSPECTOR (801-666-7280) AT LEAST ONE BUSINESS DAY (24 HOURS) PRIOR TO BEGINNING CONSTRUCTION.
- A PRE-CONSTRUCTION MEETING IS REQUIRED ONCE FINAL APPROVAL HAS BEEN GRANTED. THE PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED THROUGH SANDY CITY PUBLIC WORKS DEPARTMENT. SANDY CITY CORPORATION - PROD. 12/18 GC-B-25
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REVISION OF THE SANDY CITY STANDARD SPECIFICATIONS AND DETAILS FOR MUNICIPAL CONSTRUCTION AND/OR OTHER REQUIREMENTS AS SET FORTH IN THE PUBLIC UTILITIES FINAL REVIEW AND APPROVAL LETTER ESTABLISHED FOR THE DEVELOPMENT. SPECIFICATIONS AND DETAILS CAN BE OBTAINED ON THE SANDY CITY WEBSITE.
- SUBMITTALS ARE REQUIRED TO BE APPROVED BY THE ENGINEER FOR ALL BEDDING, BACKFILL, PIPE, AND STRUCTURES (INLET BOXES, COMBO BOXES, AND JUNCTION BOXES). SUBMITTALS MUST HAVE SUFFICIENT INFORMATION TO SHOW THAT THE PROPOSED ITEMS CONFORM TO SANDY CITY STANDARDS AND SPECIFICATIONS.
- CONSTRUCTION WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE UTAH POLLUTION DISCHARGE ELIMINATION SYSTEM (UPDES) REGULATIONS.
- ALL MATERIALS AND WORK DONE IN UDOT RIGHT-OF-WAY SHALL CONFORM TO UDOT STANDARDS AND SPECIFICATIONS (DELETE IF NOT APPLICABLE).
- NON-SHRINK GROUT SHALL BE USED WHEREVER GROUT IS REQUIRED FOR THE STORM DRAIN FACILITIES.
- CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX OR MANHOLE AND GROUT AT CONNECTION OF PIPE TO BOX TO A SMOOTH FINISH. ADDITIONALLY, ALL JAGGED OR SHARP EDGES AT PIPE CONNECTIONS ARE TO BE REMOVED AND GROUTED SMOOTH.
- GROUT BETWEEN GRADE RINGS. FOR EACH INLET BOX THAT IS LOCATED NEXT TO A CURB, THE CURB AND GUTTER CONTRACTOR IS RESPONSIBLE TO REMOVE ALL PROTRUDING, JAGGED OR SHARP CONCRETE EDGES AND TO GROUT BETWEEN BOTTOM OF INLET LID FRAME AND TOP OF CONCRETE BOX. GROUT TO CREATE A SMOOTH, BEVELED TRANSITION AT ALL EDGES IN CLEAN OUT AND INLET BOXES. GROUT AROUND ALL EDGES OF THE RESTRICTIVE ORIFICE PLATE.
- REMOVE SNAP TIES, WALLS, REBAR AND OTHER PROTRUSIONS FROM THE BOX OR PIPE INSIDE SURFACE, AS WELL AS ALL FORM WORK, PLASTIC AND CARDBOARD.
- SILT AND DEBRIS ARE TO BE CLEANED OUT OF ALL INLET BOXES, COMBO BOXES, JUNCTION BOXES, AND PIPE. THE BOXES AND PIPES ARE TO BE MAINTAINED IN A CLEAN CONDITION UNTIL AFTER THE FINAL BOND RELEASE INSPECTION.
- CLEAN OFF ALL MANHOLE LIDS AND INLET GRATES OF ASPHALT, CONCRETE, TAR OR OTHER ADHESIVES TO ALLOW ACCESS.
- WHERE A SUMP IS REQUIRED, THE SANDY CITY PUBLIC UTILITIES INSPECTOR SHALL BE CONTACTED PRIOR TO CONSTRUCTION TO PROVIDE AN OPPORTUNITY TO CHECK THE VOLUME OF GRAVEL AND GRAVEL GRADATION.
- SIGNS MUST BE POSTED NEAR EACH INLET BOX LOCATED IN A DRINKING WATER RECHARGE ZONE. WITH THE FOLLOWING WORDS "WARNING THIS IS A DRINKING WATER AQUIFER RECHARGE AREA. DISPOSAL OF ANY WASTE MATERIALS IN THE STORM WATER IS STRICTLY PROHIBITED."
- ALL INLET, COMBO AND JUNCTION BOXES SHALL BE PLACED ON 12-INCH (MIN.) COMPACTED STABILIZATION MATERIAL.
- A VIDEO OF ALL PIPES MUST BE COMPLETED BEFORE THE 80% OR 90% BOND RELEASE AND AGAIN BEFORE FINAL BOND RELEASE. SANDY CITY CORPORATION - PROD. 12/18 GC-B-26
- A REPRESENTATIVE OF THE MANUFACTURER OR SUPPLIER SHALL BE ON SITE DURING INSTALLATION OF OIL/WATER SEPARATOR, MECHANICAL TREATMENT DEVICES, MEDIA FILTERS, AND UNDERGROUND DETENTION/RETENTION SYSTEMS. THE MANUFACTURER OR SUPPLIER SHALL PROVIDE A LETTER STATING THAT THE SYSTEM WAS INSTALLED PER MANUFACTURER'S SPECIFICATIONS. IF IT IS UNKNOWN WHETHER A REPRESENTATIVE IS REQUIRED TO BE PRESENT DURING INSTALLATION, CONTACT THE SANDY CITY PUBLIC UTILITIES INSPECTOR.
- A STAMPED LETTER OF CONFORMANCE FROM THE DESIGN ENGINEER IS REQUIRED TO BE SUBMITTED TO SANDY CITY PUBLIC UTILITIES DEPARTMENT, PRIOR TO 90% BOND RELEASE, STATING THAT STORM WATER FLOW CONTROL ELEMENTS AND STORM WATER TREATMENT FACILITIES (E.G. DETENTION, RETENTION, LID BEST MANAGEMENT PRACTICES, OIL/WATER SEPARATORS, SUMPS, ETC.) WERE CONSTRUCTED ACCORDING TO THE APPROVED PLANS.



233 SOUTH PLEASANT GROVE BLVD.
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PLEASANT GROVE, UTAH 84062
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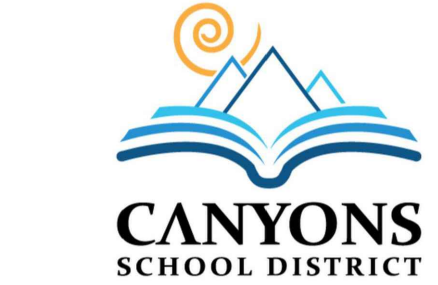


NICHOLE LEE LUTH
#8023335

CONSULTANT INFORMATION



MERIDIAN
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100 WEST 1030 SOUTH, SUITE 110
SOUTH JORDAN, UTAH 84095
PHONE: (801) 559-1515 FAX: (801) 559-1519



CANYONS
SCHOOL DISTRICT

PROJECT TITLE AND ADDRESS

CSD TRANSPORTATION
FUEL STATION
RELOCATION

200 EAST 9300 SOUTH
SANDY-UTAH-84070

REVISIONS		
△	DESCRIPTION	DATE

PROJECT INFORMATION

DATE: 28 MARCH 2024

PROJECT #: 23-089

DRAWN BY: MEI

PM / PA: NLL

DRAWING SET STATUS

BID DOCUMENTS

THIS DRAWING SET IS INTENDED
TO BE PRINTED IN COLOR

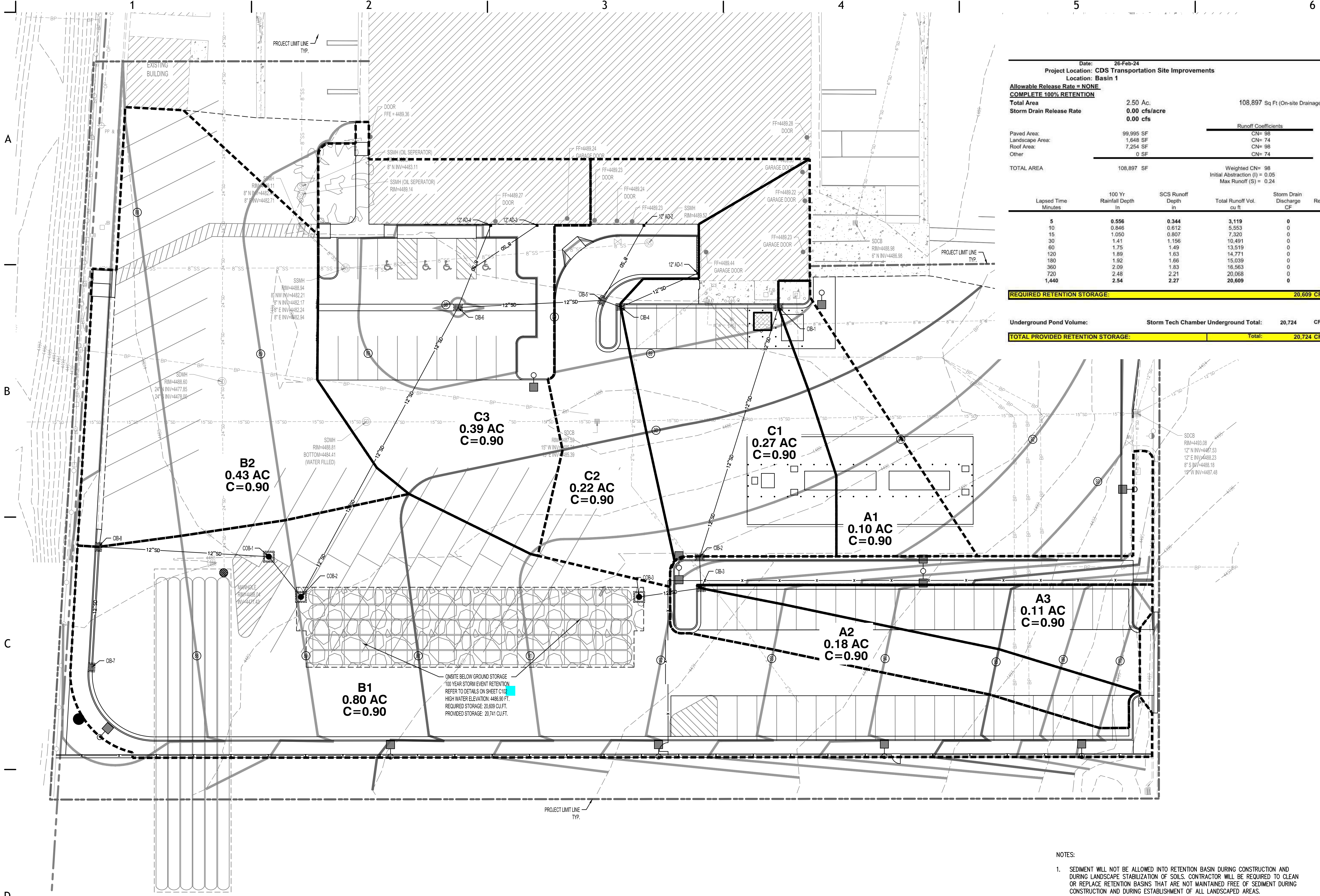
SHEET TITLE

GENERAL
GRADING AND
UTILITY NOTES

SHEET NUMBER

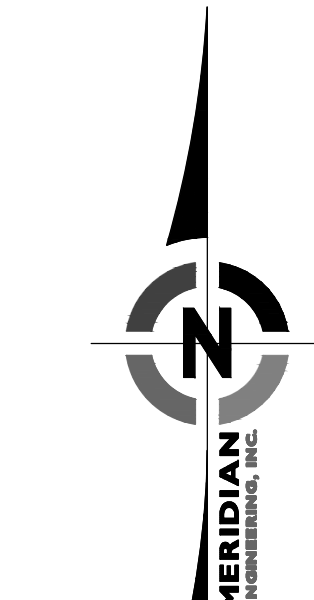
CG401





Date: 26-Feb-24					
Project Location: CDS Transportation Site Improvements					
Location: Basin 1					
Allowable Release Rate = NONE					
COMPLETE 100% RETENTION					
Total Area	2.50 Ac.	108,897 Sq Ft (On-site Drainage)			
Storm Drain Release Rate	0.00 cfs/acre				
	0.00 cfs				
		Runoff Coefficients			
Paved Area:	99,995 SF	CN= 98			
Landscape Area:	1,648 SF	CN= 74			
Roof Area:	7,254 SF	CN= 98			
Other:	0 SF	CN= 74			
TOTAL AREA		108,897 SF	Weighted CN= 98		
			Initial Abstraction (I) = 0.05		
			Max Runoff (S) = 0.24		
Lapsed Time	100 Yr	SCS Runoff	Total Runoff Vol.	Storm Drain	Req'd Storage
Minutes	Rainfall Depth	Depth	cu ft	Discharge	CF
	In	In		CF	
5	0.556	0.344	3,119	0	3,119
10	0.846	0.612	5,553	0	5,553
15	1.050	0.807	7,320	0	7,320
30	1.41	1.156	10,491	0	10,491
60	1.75	1.49	13,519	0	13,519
120	1.89	1.63	14,771	0	14,771
180	1.92	1.66	15,039	0	15,039
360	2.09	1.83	16,563	0	16,563
720	2.48	2.21	20,068	0	20,068
1,440	2.54	2.27	20,609	0	20,609
REQUIRED RETENTION STORAGE:					20,609 CF (100 yr)
Underground Pond Volume:					20,724 CF
Storm Tech Chamber Underground Total:					20,724 CF
TOTAL PROVIDED RETENTION STORAGE:					20,724 CF (100 yr)

- NOTES:
- SEDIMENT WILL NOT BE ALLOWED INTO RETENTION BASIN DURING CONSTRUCTION AND DURING LANDSCAPE STABILIZATION OF SOILS. CONTRACTOR WILL BE REQUIRED TO CLEAN OR REPLACE RETENTION BASINS THAT ARE NOT MAINTAINED FREE OF SEDIMENT DURING CONSTRUCTION AND DURING ESTABLISHMENT OF ALL LANDSCAPED AREAS.
 - APPROXIMATED A 100 YEAR STORM EVENT IS TO BE RETAINED ABOVE GROUND AND UNDERGROUND IN AREAS SHOWN IN THIS SHEET CG450.



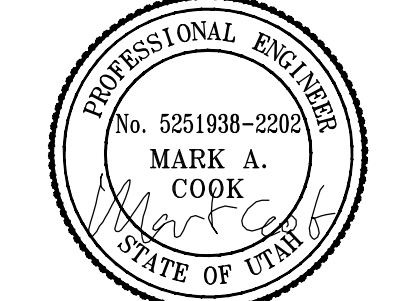
SCALE 1"=20'



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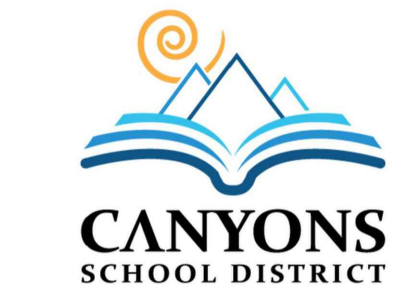
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DATE ISSUED: 03/14/24

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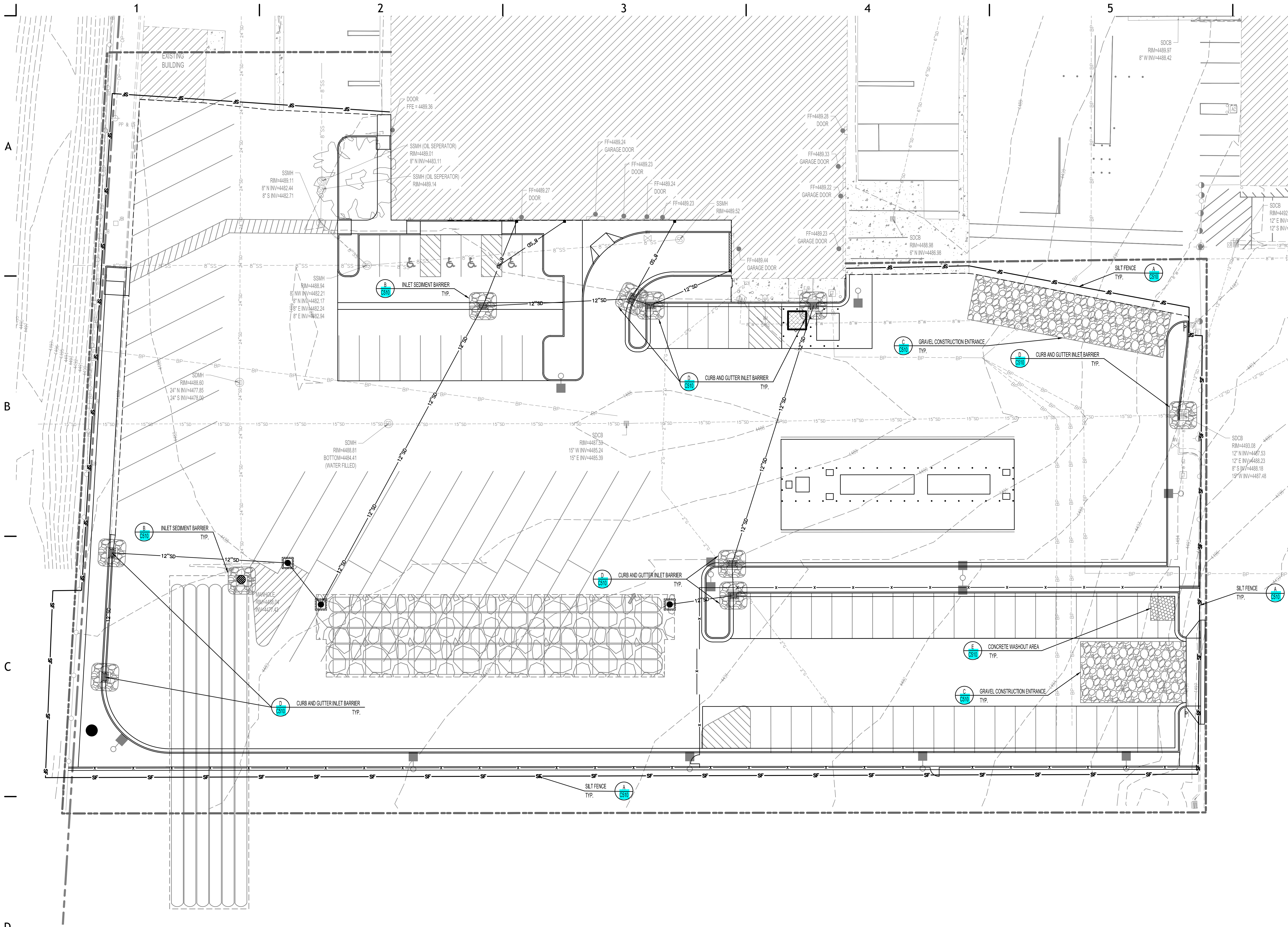
SHEET TITLE

**HYDROLOGY
PLAN**

SHEET NUMBER

CG450

BACK TO < CV



NOTES:

1) THERE ARE ABOUT 2.50 ACRES WITHIN THE PROJECT BOUNDARY THAT WILL BE DISTURBED WITH NEW CONSTRUCTION OR CONTRACTOR STORAGE ACTIVITIES.

SEQUENCE OF CONSTRUCTION ACTIVITIES:

- 1) FIELD MARK LIMIT OF DISTURBANCE FOR APPROVAL BY SANDY CITY AND OBTAIN A STORM WATER MANAGEMENT PERMIT AS NEEDED BY SANDY CITY.
- 2) INSTALL SILT FENCE AND/OR ENVIRONMENTAL FENCE AROUND PERIMETER OF PROJECT AS INDICATED ON THIS PLAN SHEET.
- 3) INSTALL SEDIMENT CONTROL MEASURES INDICATED IN ALL EXISTING STORM DRAIN INLETS ADJACENT TO THE CONSTRUCTION SITE.
- 4) CONTRACTOR WILL BEGIN DEMOLITION, GRADING, EXCAVATION, AND CONSTRUCTING UTILITY SITE IMPROVEMENTS. AS NEW DRAINAGE ELEMENTS ARE COMPLETED, CONSTRUCT SEDIMENT PROTECTION AT ALL NEW INLETS.
- 5) AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WILL BE STABILIZED WITH SOD IN LANDSCAPED AREAS AND PAVEMENT IN PARKING AND DRIVEWAY AREAS. SITE STABILIZATION OF AREAS DISTURBED BY CONSTRUCTION ACTIVITIES TO BE COMPLETED WITHIN 21 DAYS OF FINISHING AN AREA TO THE FINAL LINES AND GRADES INDICATED ON THE GRADING PLAN.
- 6) UPON LANDSCAPE ESTABLISHMENT, REMOVE TEMPORARY MEASURE & CLEAN STORM DRAIN SYSTEM PRIOR TO RELEASE OF SYSTEM TO THE OWNER.

RUNOFF COEFFICIENTS AND DISCHARGE:

- 1) THE EXISTING CURVE NUMBER COEFFICIENT FOR THE PROJECT AREA IS ESTIMATED TO BE 98. THE NEW CURVE NUMBER COEFFICIENT WILL BE APPROXIMATELY 98 FOR THE NEW IMPROVEMENTS.
- 2) RUNOFF WILL BE COLLECTED ON SITE AND RETAINED BY UNDERGROUND CHAMBERS SYSTEM.

POST CONSTRUCTION STORM WATER MANAGEMENT PRACTICES:

- 1) THE OWNER WILL SUBMIT POST CONSTRUCTION BEST MANAGEMENT PRACTICES TO SANDY CITY.

GENERAL STORM WATER POLLUTION CONTROL NOTES:

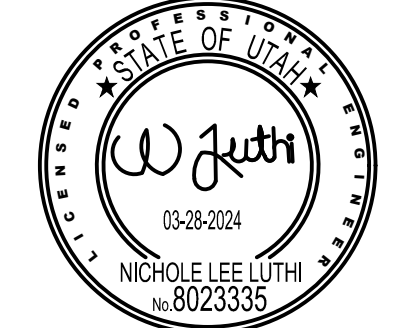
- 1) SEE C510 FOR STORM WATER POLLUTION CONTROL NOTES AND GENERAL PRACTICES.
- 2) ALL CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES ARE TO BE INSPECTED AND MAINTAINED AT LEAST WEEKLY, ALSO BEFORE AND AFTER EACH STORM EVENT.
- 3) CONTRACTOR SHALL BE REQUIRED TO KEEP RECORD OF ALL INSPECTIONS AND MAINTENANCE ON SITE WITH THE STORM WATER POLLUTION PREVENTION PLAN.



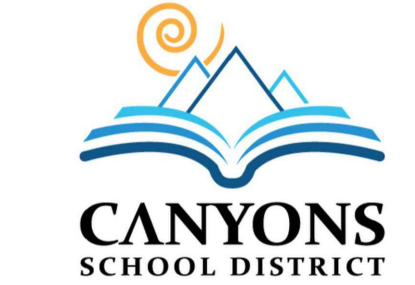
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PROFESSIONAL STAMP



CONSULTANT INFORMATION



PROJECT TITLE AND ADDRESS

**CSD TRANSPORTATION
FUEL STATION
RELOCATION**

200 EAST 9300 SOUTH
SANDY, UTAH 84070

REVISIONS

DESCRIPTION	DATE

PROJECT INFORMATION

DATE: 28 MARCH 2024
PROJECT #: 23-089
DRAWN BY: MEI
PM / PA: NULL

DRAWING SET STATUS
BID DOCUMENTS

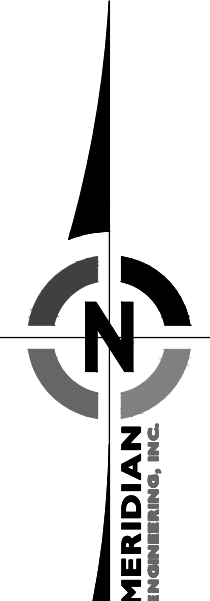
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TO BE PRINTED IN COLOR

SHEET TITLE

**EROSION
CONTROL PLAN**

SHEET NUMBER

C500



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SCALE 1"=20'



1 | 2 | 3 | 4 | 5 | 6

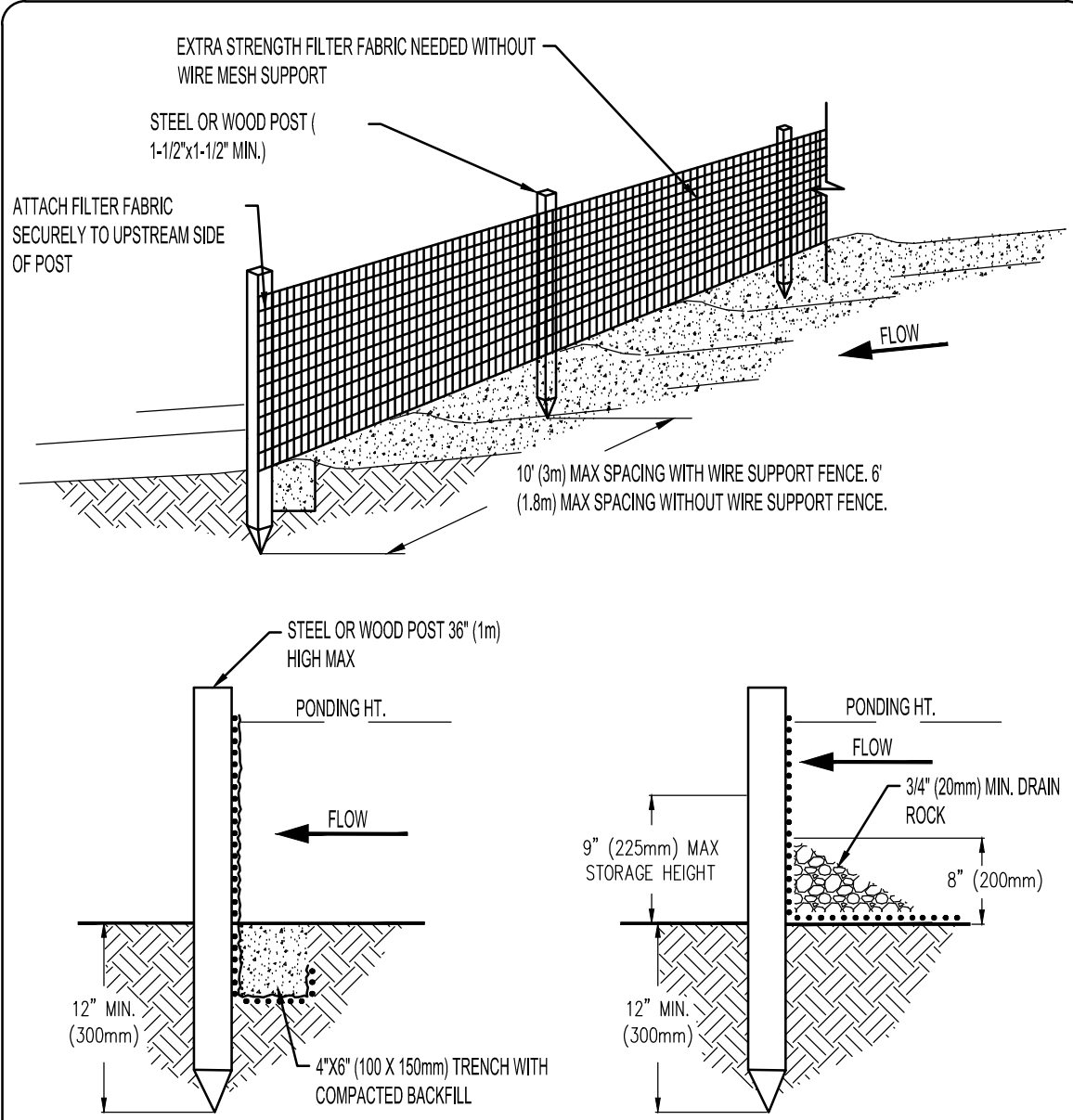
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- SILT FENCES, INSTALLATION OF SILT FENCE NOTES:**
- DIG OR TRENCH A FOUR INCH WIDE BY SIX INCH DEEP TRENCH, THE LENGTH OF THE SILT FENCE
 - ROLL OUT SILT FENCE MATERIAL ALONG THE FRONT OF THE TRENCH SUCH THAT THE STAKES WILL BE ON THE DOWNSTREAM SIDE AND THE BOTTOM FLAP LAY IN THE TRENCH.
 - STARTING AT ONE END, DRIVE THE FIRST STAKE AT LEAST 10 INCHES INTO THE GROUND. NOTE THAT THE STAKE MUST BE DRIVEN FAR ENOUGH INTO THE GROUND SO THAT 8 - 12 INCHES OF MATERIAL REMAINS IN THE GROUND.
 - AT THE NEXT STAKE, PULL THE MATERIAL TAUT BEFORE DRIVING THE SECOND STAKE INTO THE GROUND. NOTE THAT THE STAKE MUST BE DRIVEN FAR ENOUGH INTO THE GROUND SO THAT 8 - 12 INCHES OF MATERIAL REMAINS IN THE GROUND.
 - REPEAT STEP 4 UNTIL THE STAKES ARE DRIVEN INTO THE GROUND.
 - WHEN ATTACHING TWO LENGTHS OF FENCE TOGETHER, DO THE FOLLOWING:
 - PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
 - ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION, TO CREATE A TIGHT SEAL WITH THE FENCE MATERIAL.
 - DRIVE BOTH POSTS INTO THE GROUND SO THAT 8 - 12 INCHES OF MATERIAL REMAINS IN THE GROUND.

B

- EROSION CONTROL GENERAL NOTES:**
- AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DUE TO WIND AND RUNOFF. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING THE EROSION CONTROL FACILITIES SHOWN.
 - ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO UNFORESEEN PROBLEMS OR IF THE PLAN DOES NOT FUNCTION AS INTENDED. A REPRESENTATIVE OF THE CITY PUBLIC WORKS DEPARTMENT MAY REQUIRE ADDITIONAL CONTROL DEVICES UPON INSPECTION OF PROPOSED FACILITIES.
 - ALL BEST MANAGEMENT PRACTICES AND EROSION CONTROL MEASURES ARE TO CONFORM TO THE CITY LAND DISTURBANCE DESIGN AND CONSTRUCTION STANDARDS.
 - THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE STREETS CLEAN AND FREE FROM DEBRIS DEPOSITED BY TRAFFIC FROM THE SITE.
 - ALL STORM DRAIN FACILITIES ON SITE AND ADJACENT TO THE SITE NEED TO BE PROTECTED FROM SITE RUNOFF. INLET PROTECTION DEVICES SHALL BE INSTALLED IMMEDIATELY AS INDIVIDUAL INLETS ARE INSTALLED.
 - ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE PAVED, SEEDED WITH NATIVE VEGETATION OR LANDSCAPED. REFER TO LANDSCAPE PLANS FOR SEED MIX AND PLANTING SPECIFICATIONS.
 - EROSION CONTROL STRUCTURES BELOW SLOTTED AREAS MAY BE REMOVED ONCE SOD AND FINAL LANDSCAPING ARE IN PLACE. EROSION CONTROL STRUCTURES BELOW SEEDED AREAS MUST REMAIN IN PLACE UNTIL THE ENTIRE AREA HAS ESTABLISHED A MATURE COVERING OF HEALTHY VEGETATION. EROSION CONTROL, IN PROPOSED PAVEMENT AREAS SHALL REMAIN IN PLACE UNTIL PAVEMENT IS COMPLETE.
 - CONTRACTOR SHALL USE VEHICLE TRACKING CONTROL AT ALL LOCATIONS WHERE VEHICLES WILL ENTER OR EXIT THE SITE. CONTROL FACILITIES SHALL BE MAINTAINED WHILE CONSTRUCTION IS IN PROGRESS, MOVED WHEN NECESSARY AND REMOVED WHEN THE SITE IS PAVED.
 - ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, ETC.) SHALL BE DISPOSED OF IN A MANNER THAT PREVENTS CONTACT WITH STORM WATER DISCHARGES FROM THE SITE.
 - BLOWING DUST MUST BE CONTROLLED AT ALL TIMES. SITE WATERING SHALL BE USED TO CONTROL DUST. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS ABSOLUTELY PROHIBITED.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, GRAVEL BAGS, ETC.) DUE TO GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT.
 - ALL OFF-SITE CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF BITUMINOUS PAVING FOR ROAD CONSTRUCTION.
 - ALL MEASURES CONTAINED IN THIS PLAN SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT. ANY NEEDED CLEANING AND REPAIRS SHALL BE DONE IMMEDIATELY UPON DISCOVERY.
 - ALL UTILITY LINES SHALL BE CLEARED OF DIRT AND DEBRIS PRIOR TO BEING PUT INTO SERVICE. DOWN-GRADE LINES MUST BE PROTECTED FROM WASH-WATER DURING THE CLEANING TO AVOID CONTAMINATION AND COMPROMISING OUTFALL CLEANLINESS.

D

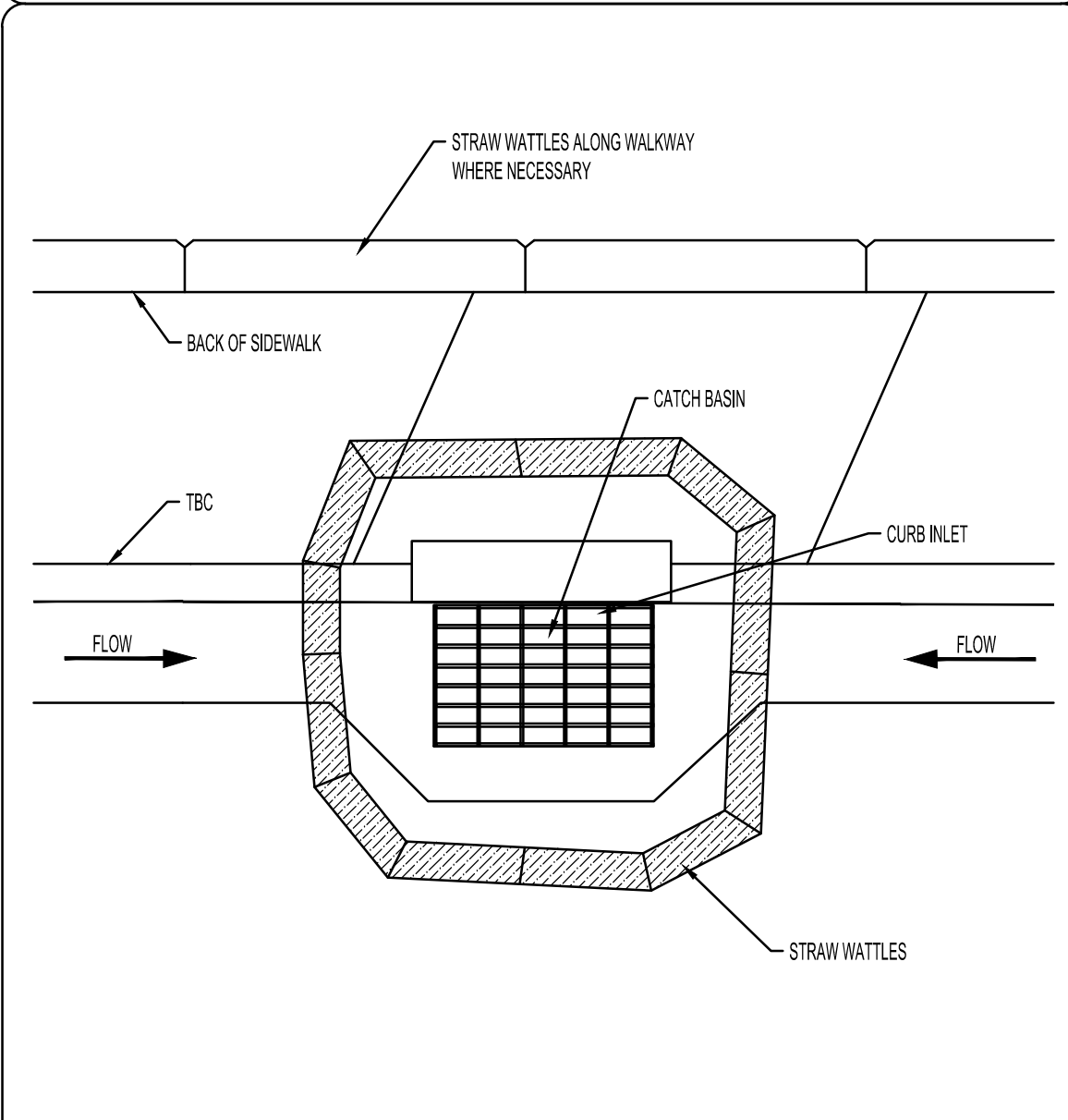


- TRENCH DETAIL**
- SILT FENCE SHALL BE PLACED ON THE SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
- INSTALLATION WITHOUT TRENCHING**
- SILT FENCE SHALL BE PLACED ON THE SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

SILT FENCE

NTS.

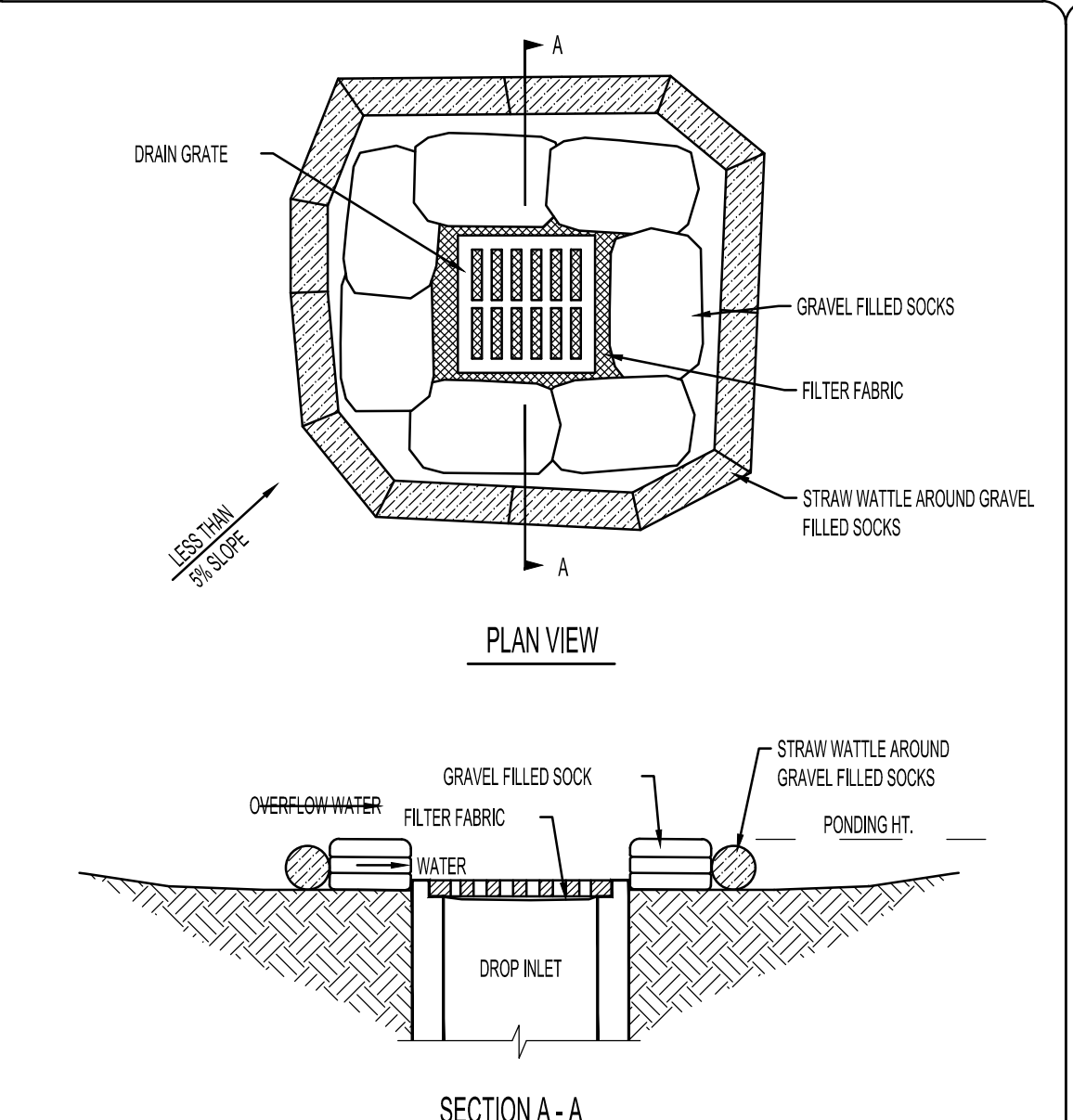
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- NOTES:**
- DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%).
 - EXCAVATE A BASIN OF SUFFICIENT SIZE ADJACENT TO THE DROP INLET.
 - THE TOP OF THE STRUCTURE (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWN THE SLOPE TO PREVENT RUNOFF FROM BYPASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWN SLOPE SIDE OF THE STRUCTURE.

CURB AND GUTTER INLET SEDIMENT BARRIER

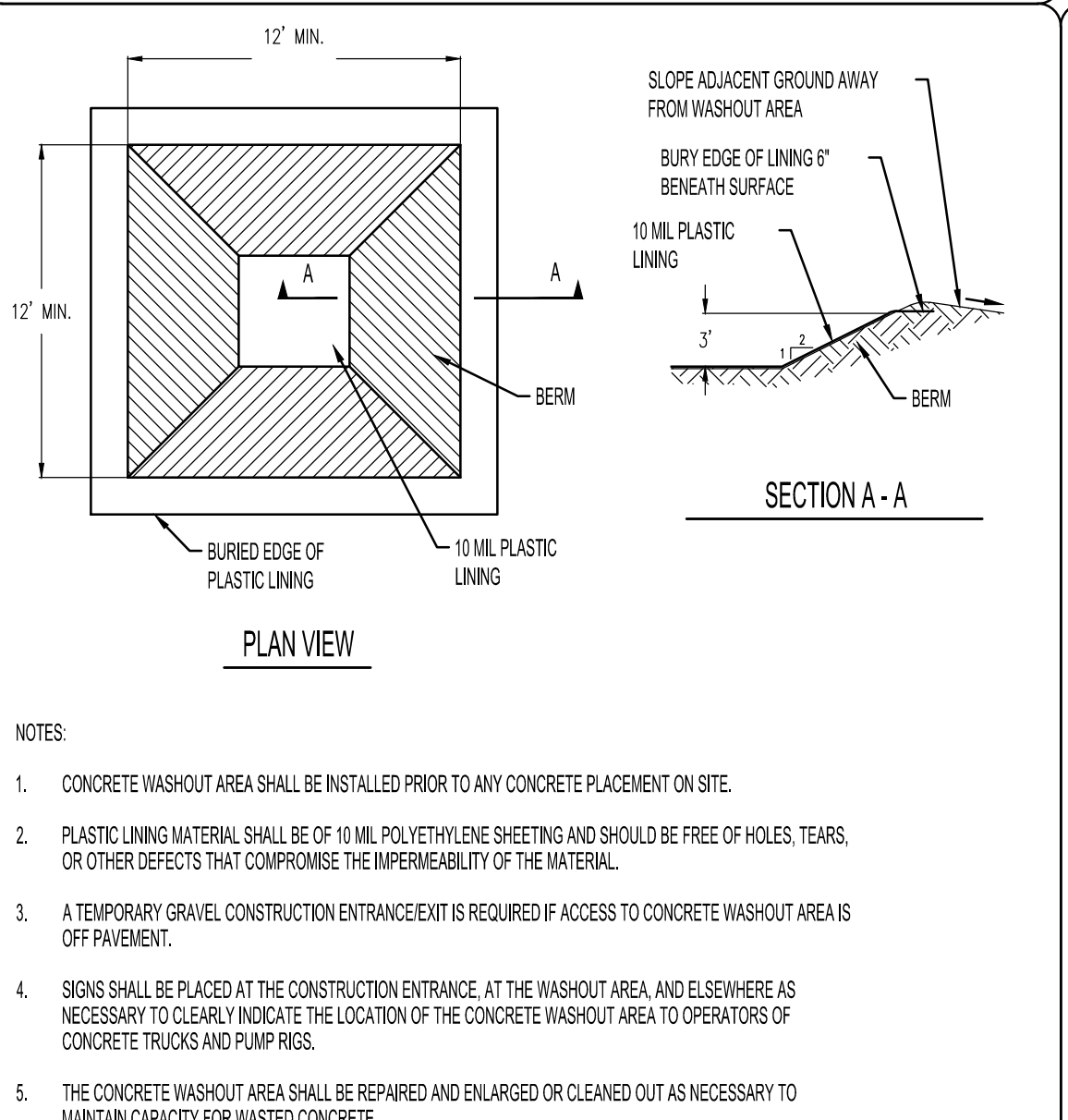
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INLET SEDIMENT BARRIER

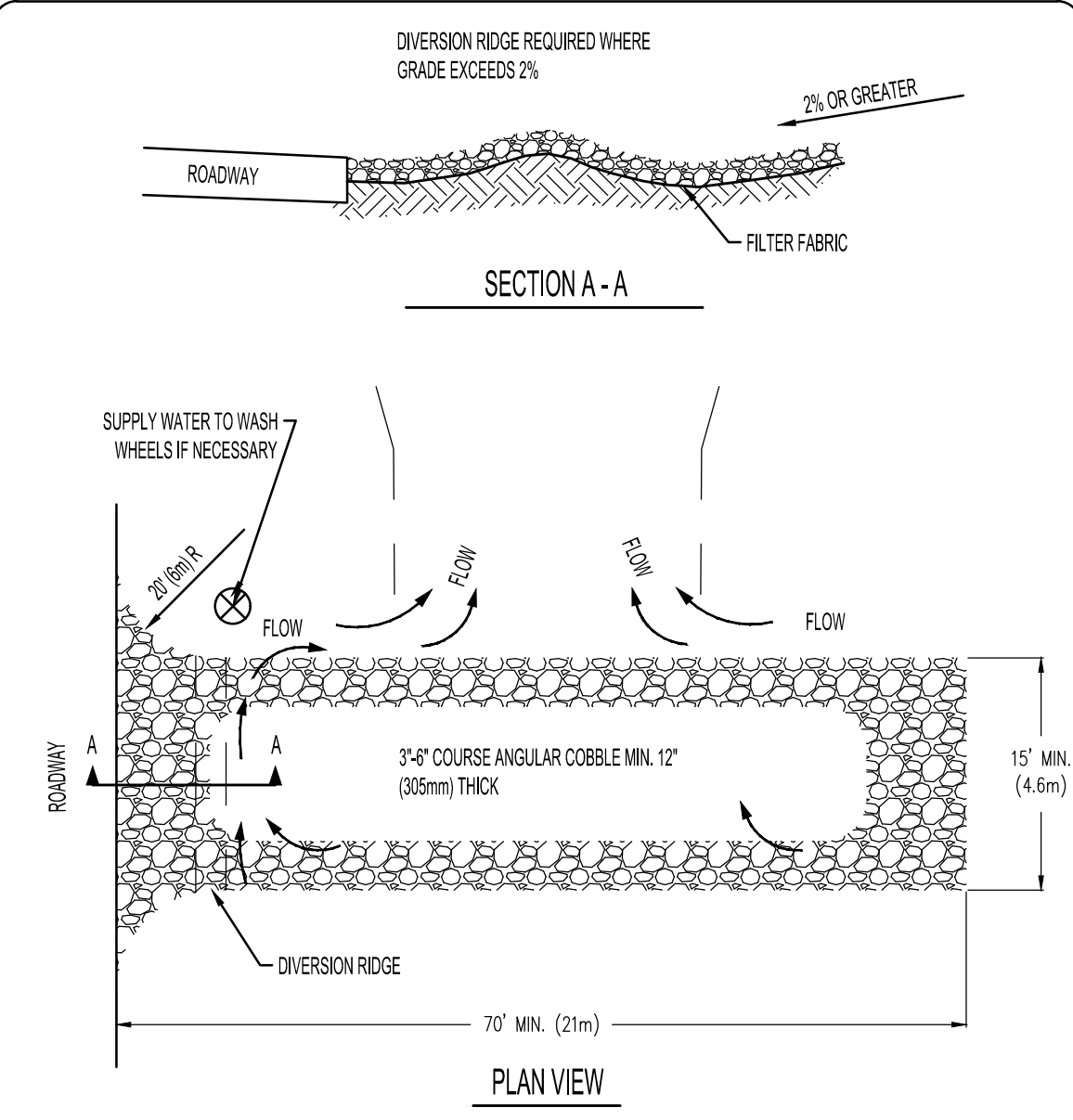
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- NOTES:**
- CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
 - PLASTIC LINING MATERIAL SHALL BE OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
 - A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS REQUIRED IF ACCESS TO CONCRETE WASHOUT AREA IS OFF PAVEMENT.
 - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE WASHOUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASHOUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP TRUCKS.
 - THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND ENLARGED OR CLEARED OUT AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
 - AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN ACCEPTED WASTE SITE.
 - WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER ACCEPTED BY THE CITY.

CONCRETE WASHOUT AREA

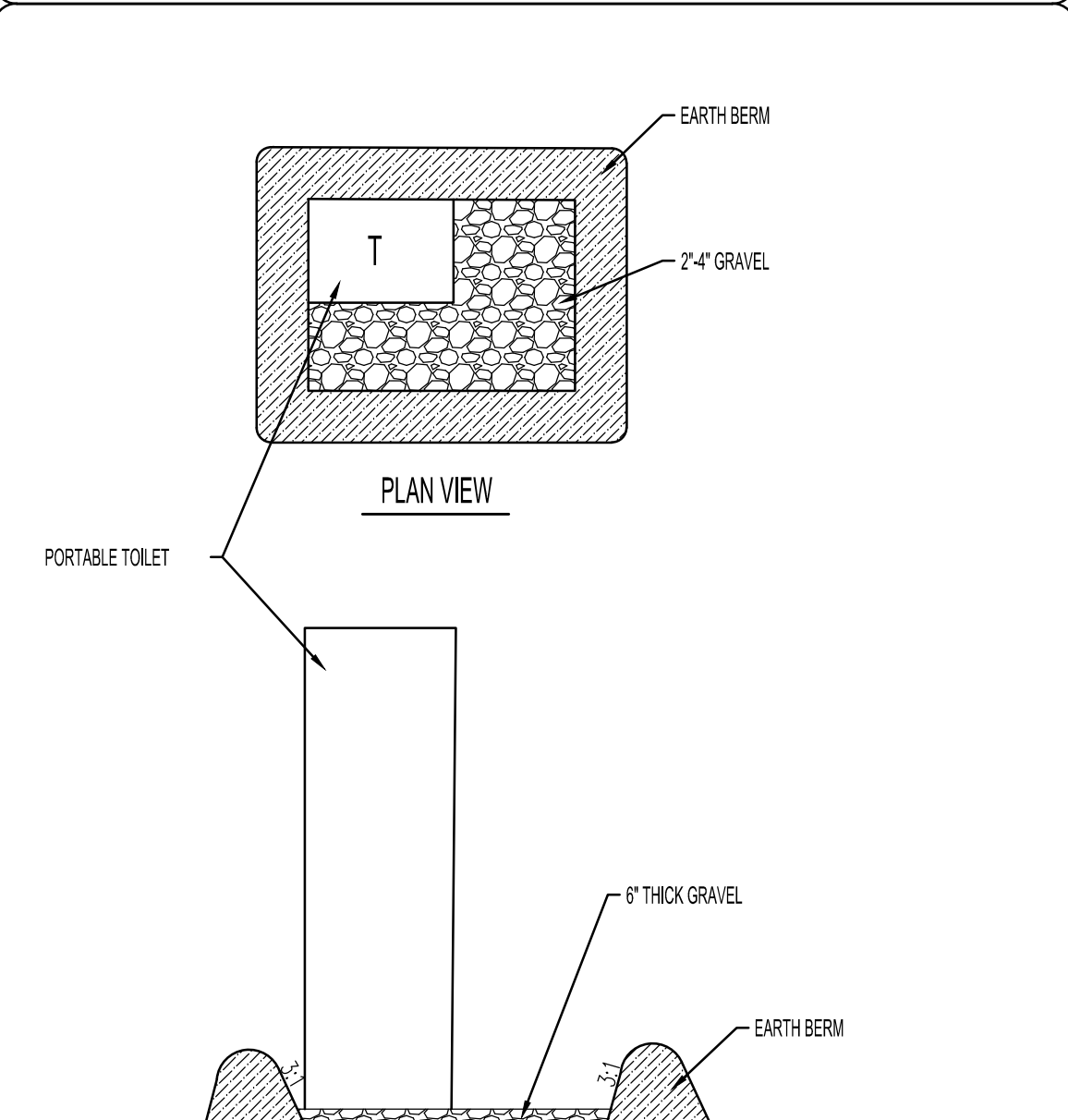
E



- NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO THE APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT

C



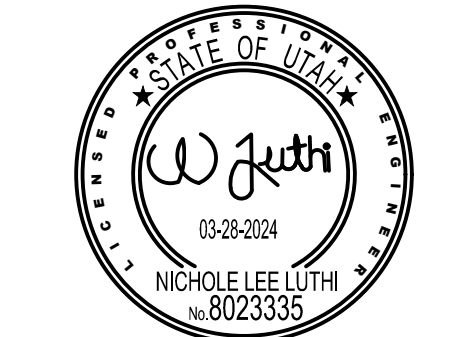
- NOTES:**
- CONTRACTOR TO LOCATE ON SITE BASED ON TRAILER LOCATION.

PORTABLE TOILET BARRIER

F

- LIMIT OF DISTURBANCE NOTES:**
- THE LIMITS OF DISTURBANCE (L.O.D.) TO BE FIELD MARKED.
 - FIELD VERIFICATION OF AN L.O.D. BY CITY ENGINEERING.
 - PRECONSTRUCTION EROSION AND SEDIMENT CONTROL MEETING REQUIRED PRIOR TO ANY DISTURBANCE. THE REQUIRED ATTENDEES WILL BE DEVELOPER'S PROJECT MANAGER, CONSTRUCTION COMPANY'S ON SITE MANAGER.
 - MODIFICATION OF L.O.D. AS REQUIRED BY RESULTS OF PRECONSTRUCTION MEETING.
 - THE CONTRACTOR TO OBTAIN WRITTEN APPROVAL FROM THE CITY CERTIFYING THE L.O.D., DUST CONTROL, AND TREE PROTECTION HAS BEEN REVIEWED AND APPROVED PRIOR TO WORK BEGINNING.

- CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES NOTES:**
- CONTRACTOR WILL PERFORM EARTHWORK IN ACCORDANCE WITH THE CITY STANDARD SPECIFICATIONS. CITY EROSION, SEDIMENT, REVEGETATION REQUIREMENTS AND THE DUST CONTROL PLAN AS REQUIRED BY THE STATE OF UTAH DEPARTMENT OF ENVIRONMENTAL DIVISION OF AIR QUALITY.
 - THE CONTRACTOR WILL PERFORM EARTHWORK IN ACCORDANCE WITH THE PROJECT EARTHWORK SPECIFICATIONS AND THE EARTHWORK RECOMMENDATIONS FOUND IN THE GEOTECHNICAL INVESTIGATION REPORT PREPARED FOR THIS PROJECT. IN THE EVENT THAT THERE IS A CONFLICT BETWEEN THE DOCUMENTS MENTIONED (NOTE 2) AND THE CITY'S EROSION AND SEDIMENT CONTROL REQUIREMENTS OR THE DUST CONTROL PLAN AS REQUIRED BY THE STATE OF UTAH DEPARTMENT OF ENVIRONMENTAL DIVISION OF AIR QUALITY, THE CITY'S REQUIREMENTS AND THE STATE REQUIREMENTS WILL CONTROL.
 - L.O.D. BARRIERS WILL BE PROPERLY INSTALLED PRIOR TO ANY DISTURBANCE. L.O.D. BARRIERS ARE DEFINED AS SILT FENCE AND ENVIRONMENTAL FENCE.
 - INSTALL SILT FENCE ON ALL DOWNHILL SIDE OF L.O.D. SEE DETAIL AND SILT FENCE NOTES FOR CORRECT INSTALLATION PROCEDURE.
 - ENVIRONMENTAL FENCES ARE TO BE INSTALLED ON ALL UPHILL SIDE OF L.O.D.
 - THE L.O.D. SILT FENCE BARRIERS DO NOT REPLACE OR FUNCTION AS SEDIMENTATION B.M.P.S. ADDITIONAL SEDIMENT (BEST MANAGEMENT PRACTICES) B.M.P.S WILL BE REQUIRED AS SHOWN ON THE PLANS OR AS REQUIRED BY THE CITY THROUGHOUT THE PROJECT AS UNFORESEEN SITUATIONS OCCUR.
 - WITHIN THE SAME WORKING DAY SOIL IS DISTURBED ALL SEDIMENT CONTROL B.M.P.S. WILL BE INSTALLED. AN EXAMPLE OF SEDIMENT CONTROL B.M.P. IS A SILT FENCE OR A TEMPORARY SEDIMENTATION BASIN. EXISTING VEGETATION WILL NOT BE BURIED. THE METHOD OF DISPOSAL WILL BE SUBMITTED AND APPROVED BY THE CITY.
 - INSTALL ALL SEDIMENTATION B.M.P.S AS SHOWN ON PLANS AND AS DIRECTED BY THE CITY
 - DUST CONTROL MEASURES WILL BE ON SITE AND IN WORKING ORDER WHEN SOIL IS DISTURBED. DUST CONTROL WILL BE USED 24 HOURS SEVEN DAYS PER WEEK UNTIL SOIL IS RESEED AND PROTECTED. WATER USED TO CONTROL DUST WILL CONTAIN CALCIUM CHLORIDE OR SIMILAR ADDITIVE. THE DUST CONTROL PLAN AS REQUIRED BY THE STATE OF UTAH DEPARTMENT OF ENVIRONMENTAL DIVISION OF AIR QUALITY DOES NOT REPLACE THE CALCIUM CHLORIDE REQUIREMENT.
 - INSTALL IMPROVEMENTS AS SHOWN ON THE APPROVED CONSTRUCTION PLANS.
 - ALL DISTURBED SOIL WILL BE MADE STABLE AS WITHIN 21 DAYS OF DISTURBANCE.
 - TEMPORARY AND PERMANENT SEDIMENT BEST MANAGEMENT PRACTICES WILL REMAIN FUNCTIONAL AT ALL TIMES THROUGH THE ENTIRE PROJECT AND UNTIL ALL DISTURBED SOIL HAS BEEN STABILIZED TO PREVENT EROSION. WRITTEN APPROVAL MUST BE OBTAINED FROM THE CITY CERTIFYING ALL DISTURBED SOIL IS STABLE BEFORE ABANDONING SEDIMENTATION BEST MANAGEMENT PRACTICES.
 - IF THE EXISTING GRADES ARE DIFFERENT THAN WHAT IS SHOWN ON THE GRADING PLAN, STOP WORK AND NOTIFY THE CITY.
 - IF THE PROJECT REQUIRES EXPORT OR IMPORT MATERIAL TO ACHIEVE A BALANCED SITE, THE CONTRACTOR IS TO KEEP OFFSITE ROADS CLEAN AT ALL TIMES. FAILURE TO KEEP STREETS CLEAN WILL RESULT IN A MANDATORY WORK STOP ORDER BEING ISSUED ON THE IMPORT/EXPORT OPERATION.
 - THE PROJECT CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL PAVED STREETS ADJACENT TO OR ABUTTING THE GRADING PROJECT CLEAN AND FREE OF DIRT, MUD, AND DEBRIS AT ALL TIMES. WHEREAS THIS IS A PUBLIC HEALTH AND SAFETY ISSUE, FAILURE TO COMPLY WILL RESULT IN A MANDATORY WORK STOP ORDER BEING ISSUED OVER THE ENTIRE PROJECT, INCLUDING COMMERCIAL AND RESIDENTIAL CONSTRUCTION PROJECTS.
 - THE CONTRACTOR WILL PROVIDE ADDITIONAL TEMPORARY EROSION CONTROL PLANS, AND PERMITS AS REQUIRED BY THE CITY, THE COUNTY AND THE STATE OF UTAH AS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.
 - FAILURE TO FOLLOW THE SEQUENCE OF CONSTRUCTION SHALL RESULT IN THE ISSUANCE OF A WORK STOP ORDER BEING ISSUED.
 - CONCRETE TRUCKS TO USE PRE-ASSIGNED WASH OUT AREA. CONCRETE TRUCKS ARE NOT TO BE CLEANED OUT OR WASHED DOWN IN THE PUBLIC RIGHT-OF-WAY.
 - PORTABLE TOILETS TO BE LOCATED ADJACENT TO CONTRACTOR TRAILER. TOILETS SHALL BE MAINTAINED BY CONTRACTOR.
 - CONSTRUCTION WASTE BIN TO BE LOCATED NEAR CONTRACTOR TRAILER. ALL CONSTRUCTION WASTE TO BE PLACED IN WASTE BIN.
 - ALL CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES (B.M.P.S) ARE TO BE INSPECTED AND MAINTAINED AT LEAST WEEKLY, ALSO BEFORE AND AFTER EACH STORM EVENT.
 - CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF ALL INSPECTIONS AND MAINTENANCE ON SITE WITH THE STORM WATER POLLUTION PREVENTION PLAN.



REVISIONS	
Δ DESCRIPTION	DATE

PROJECT INFORMATION
DATE: 28 MARCH 2024
PROJECT #: 23-089
DRAWN BY: MEI
PM / PA: NLL

DRAWING SET STATUS
BID DOCUMENTS

THIS DRAWING SET IS INTENDED
TO BE PRINTED IN COLOR

SHEET TITLE

**EROSION
CONTROL DETAILS**



SHEET NUMBER
C510

CONSTRUCTION PERIOD BEST MANAGEMENT PRACTICES

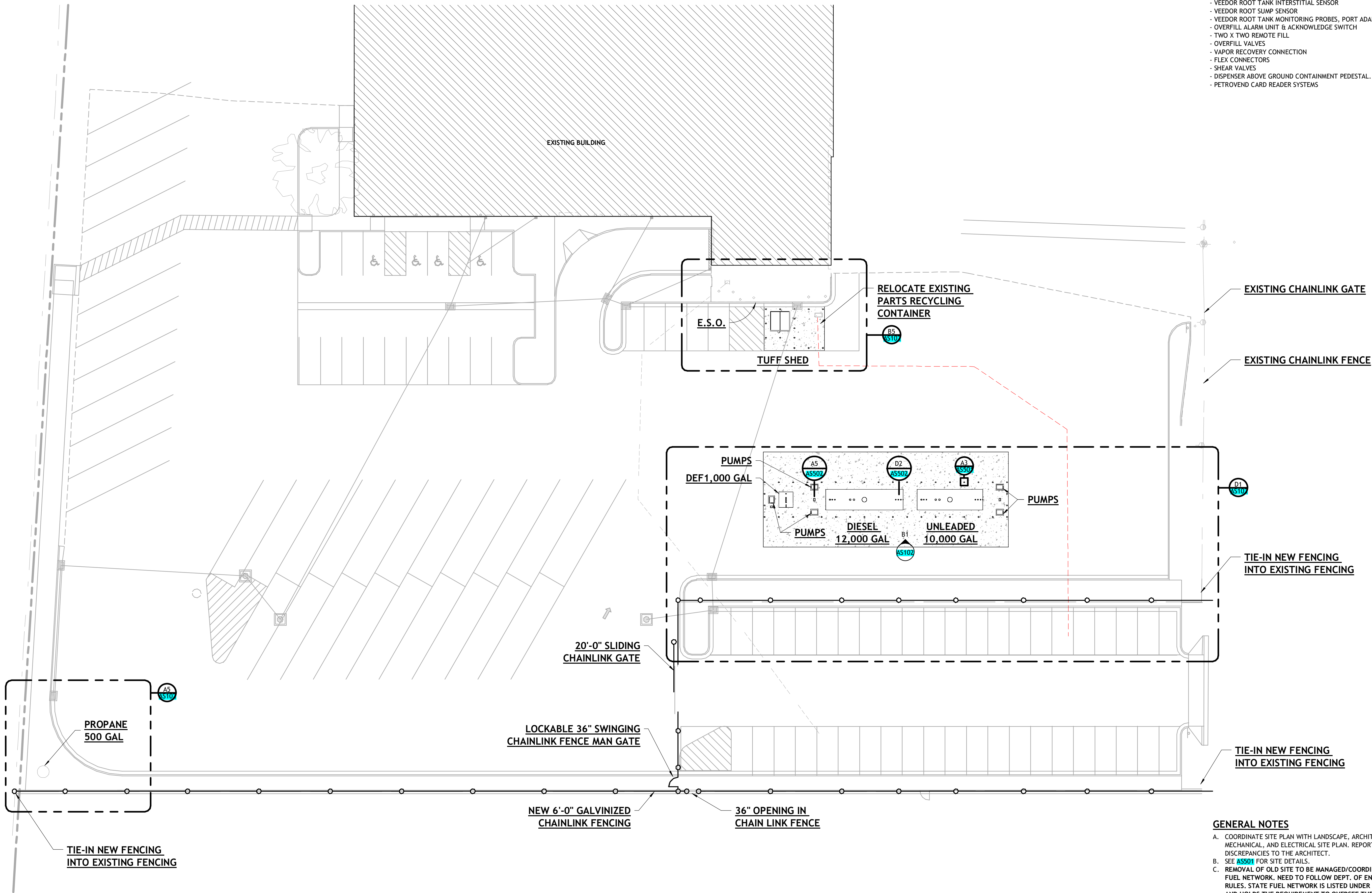
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D



D2 ARCHITECTURAL SITE PLAN
AS101 | SCALE: 1" = 20'-0"



BID NOTES

REQUIRED CFCL:

- CONCRETE
- BOLLARDS
- 6X6 TUFF SHED (OR EQUIVALENT)
- FIRE RATED AST DOUBLE WALLED STORAGE TANKS
- ELECTRICAL AND PHONE LINES TO SHED AND TANKS
- DOUBLE WALLED PIPING.

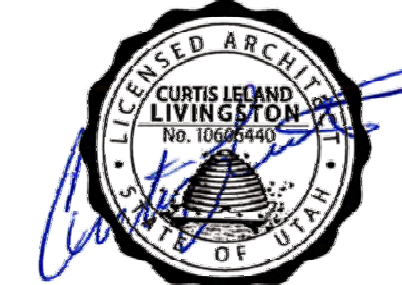
STATE FUEL TO PROVIDE OFCL:

- EMERGENCY TANK VENTS
- PRIMARY TANK VENTS
- MECHANICAL TANK GAUGES
- GAS BOY ATLAS DUAL / DUAL DISPENSERS
- RED JACKET SUBMERSIBLE PUMPS
- ELECTRIC SOLENOID VALVES
- VEEDOR ROOT TANK INTERSTITIAL SENSOR
- VEEDOR ROOT SUMP SENSOR
- VEEDOR ROOT TANK MONITORING PROBES, PORT ADAPTERS, & FLOAT KITS
- OVERFILL ALARM UNIT & ACKNOWLEDGE SWITCH
- TWO X TWO REMOTE FILL
- OVERFILL VALVES
- VAPOR RECOVERY CONNECTION
- FLEX CONNECTORS
- SHEAR VALVES
- DISPENSER ABOVE GROUND CONTAINMENT PEDESTAL.
- PETROVEND CARD READER SYSTEMS



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PROFESSIONAL STAMP



3/29/24

CONSULTANT INFORMATION

BYU
BRIGHAM YOUNG
UNIVERSITY

PROJECT TITLE AND ADDRESS
**CSD TRANSPORTATION
FUEL STATION
RELOCATION**
200 EAST 9300 SOUTH
SANDY UTAH 84070

REVISIONS

△ DESCRIPTION	DATE

PROJECT INFORMATION

DATE: MARCH 29, 2024
PROJECT #: 23-089
PM / PA: KJM
PIC: CLL

DRAWING SET STATUS

BID DOCUMENTS

THIS DRAWING SET IS INTENDED
TO BE PRINTED IN COLOR

SHEET TITLE

ARCHITECTURAL
SITE PLAN

SHEET NUMBER

AS101

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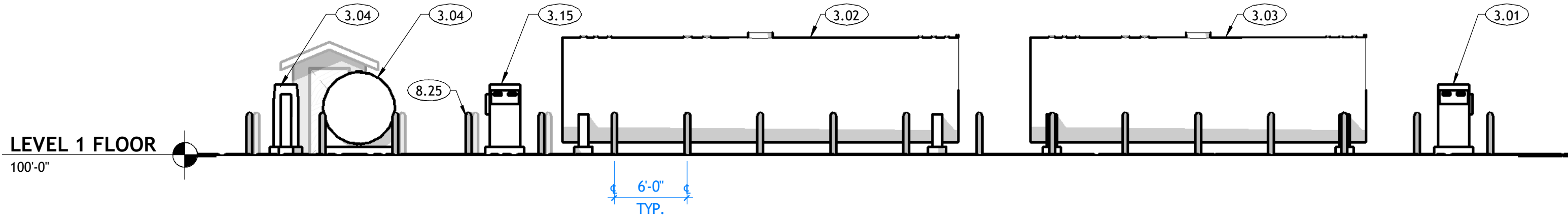
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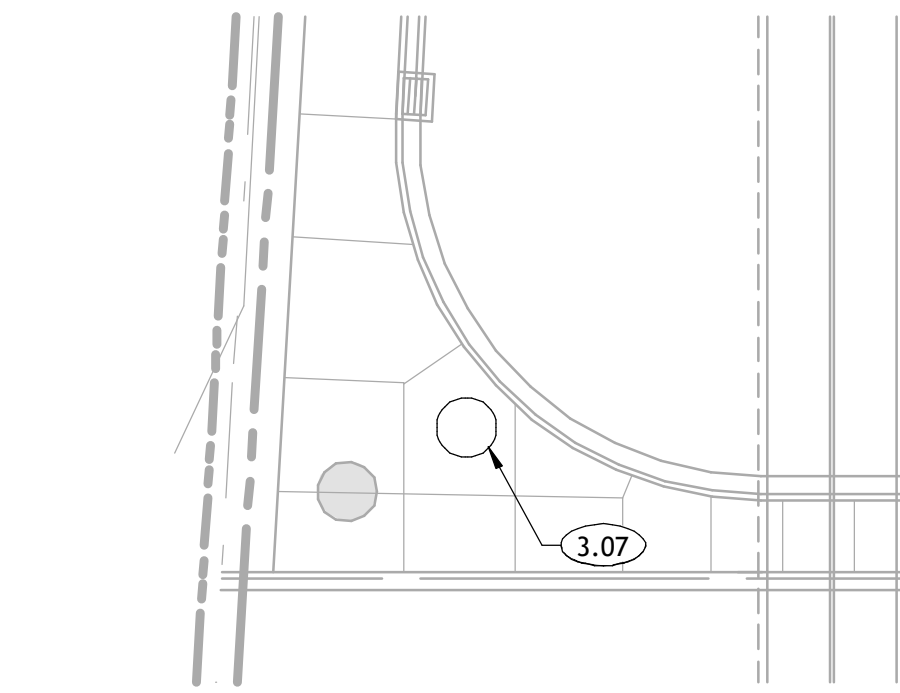
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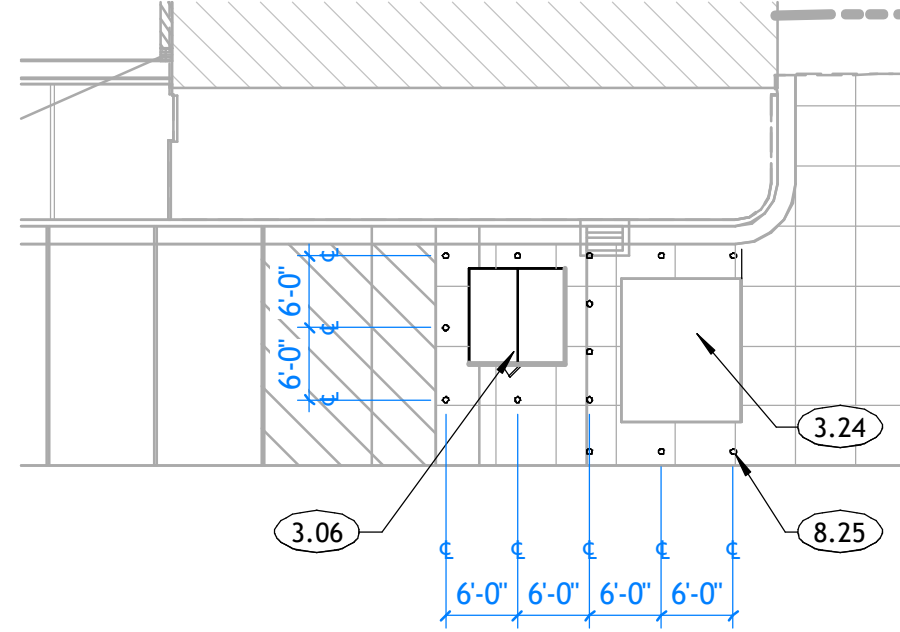
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B1 SOUTH FUEL STATION ELEVATION
AS102 | SCALE: 1/8" = 1'-0"



A5 ENLARGED PROPANE AREA
AS102 | SCALE: 1/16" = 1'-0"



B5 ENLARGED SHED AREA
AS102 | SCALE: 1/16" = 1'-0"

BID NOTES

REQUIRED CFCI:

- CONCRETE
- BOLLARDS
- 6X6 TUFF SHED (OR EQUIVALENT)
- FIRE RATED AST DOUBLE WALLED STORAGE TANKS
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- VAPOR RECOVERY CONNECTION
- FLEX CONNECTORS
- SHEAR VALVES
- DISPENSER ABOVE GROUND CONTAINMENT PEDESTAL.
- PETROVEND CARD READER SYSTEMS

KEYNOTES

- 3.01 UNLEADED FUEL PUMP, SEE CIVIL
- 3.02 DIESEL FUEL TANKS (12,000 GALLONS), SEE CIVIL
- 3.03 UNLEADED FUEL TANK (10,000 GALLONS), SEE CIVIL
- 3.04 DEF FUEL TANK (1,000 GALLONS), SEE CIVIL
- 3.06 6'-0" X 6'-0" PRE-ENGINEERED TUFF SHED, SEE SPECS. SEE CIVIL LOCATION
- 3.07 PROPANE TANK (500 GALLONS), SEE CIVIL
- 3.15 DIESEL FUEL PUMP, SEE CIVIL
- 3.21 DASHED LINE INDICATES EXISTING ELECTRICAL UTILITY LINE. CONTRACTOR TO VERIFY LOCATION AND REPORT LOCATION UTILITY LINE TO ARCHITECT PRIOR TO CONSTRUCTION
- 3.24 RELOCATE EXISTING PARTS RECYCLING CONTAINER. SEE CIVIL
- 8.25 NEW BOLLARDS. SEE CIVIL. SEE DETAIL A3 / **AS501**
- 9.70 P.O.S SYSTEM. SEE ELECTRICAL.

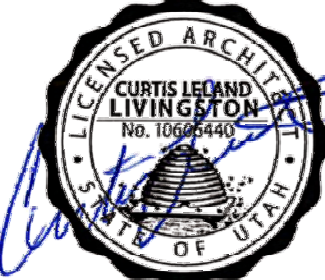
GENERAL NOTES

- A. COORDINATE SITE PLAN WITH LANDSCAPE, ARCHITECTURAL, CIVIL, MECHANICAL, AND ELECTRICAL SITE PLAN. REPORT ANY SIGNIFICANT DISCREPANCIES TO THE ARCHITECT.
- B. SEE **AS501** FOR SITE DETAILS.
- C. REMOVAL OF OLD SITE TO BE MANAGED/COORDINATED THROUGH STATE FUEL NETWORK. NEED TO FOLLOW DEPT. OF ENVIRONMENTAL QUALITY RULES. STATE FUEL NETWORK IS LISTED UNDER DEQ AS THE OPERATOR AND HOLDS THE REQUIREMENT TO OVERSEE THE EFFORTS.REMOVAL REQUIRES BLUE STAKES, DERR CLOSURE PLAN, TANK CLEANING AND SOIL TESTING AS PART OF THE EXCAVATION AND REFILL.



233 SOUTH PLEASANT GROVE BLVD.
SUITE #105
PLEASANT GROVE, UTAH 84062
PHONE: (801) 769-3000
core@corearch.com

PROFESSIONAL STAMP



3/29/24

CONSULTANT INFORMATION

OWNER INFORMATION



PROJECT TITLE AND ADDRESS
**CSD TRANSPORTATION
FUEL STATION
RELOCATION**
200 EAST 9300 SOUTH
SANDY UTAH 84070

REVISIONS

△ DESCRIPTION	DATE

PROJECT INFORMATION

DATE: MARCH 29, 2024
PROJECT #: 23-089
PM / PA: KJM
PIC: CLL

DRAWING SET STATUS

BID DOCUMENTS

THIS DRAWING SET IS INTENDED
TO BE PRINTED IN COLOR

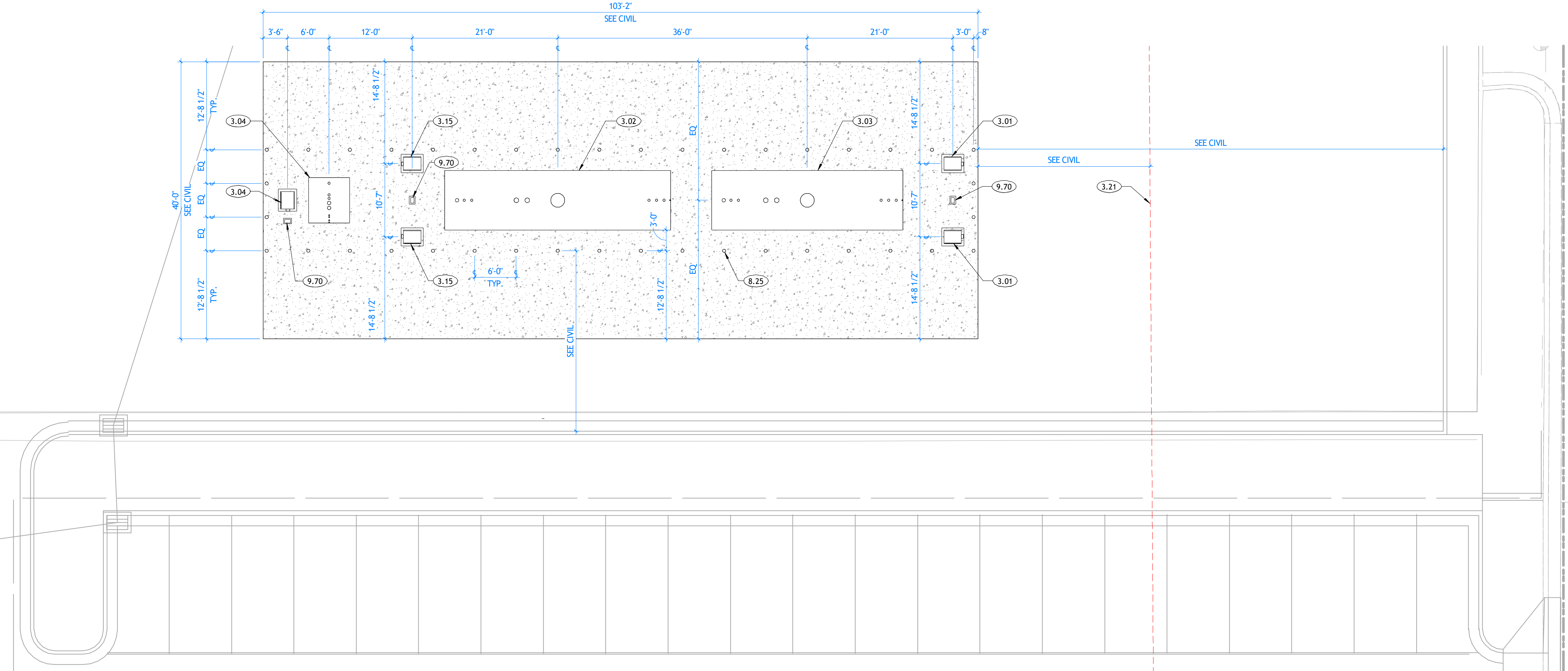
SHEET TITLE

**ENLARGED SITE
AREAS**

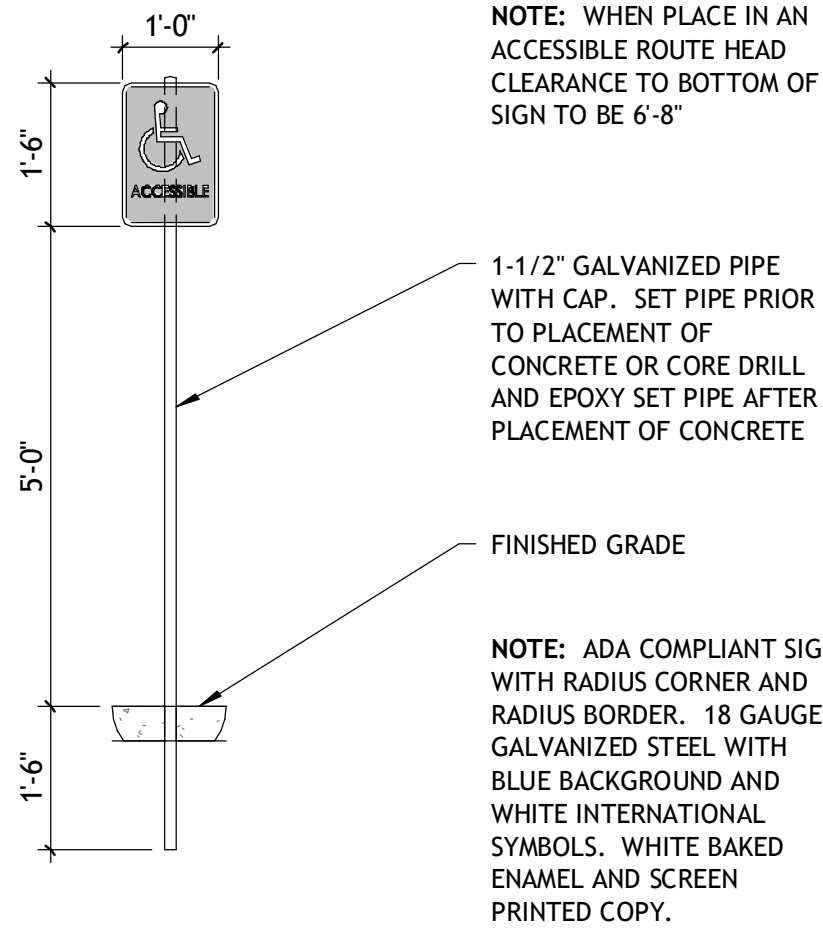
SHEET NUMBER

AS102

D1 ENLARGED FUEL TANK AREA
AS102 | SCALE: 1/8" = 1'-0"



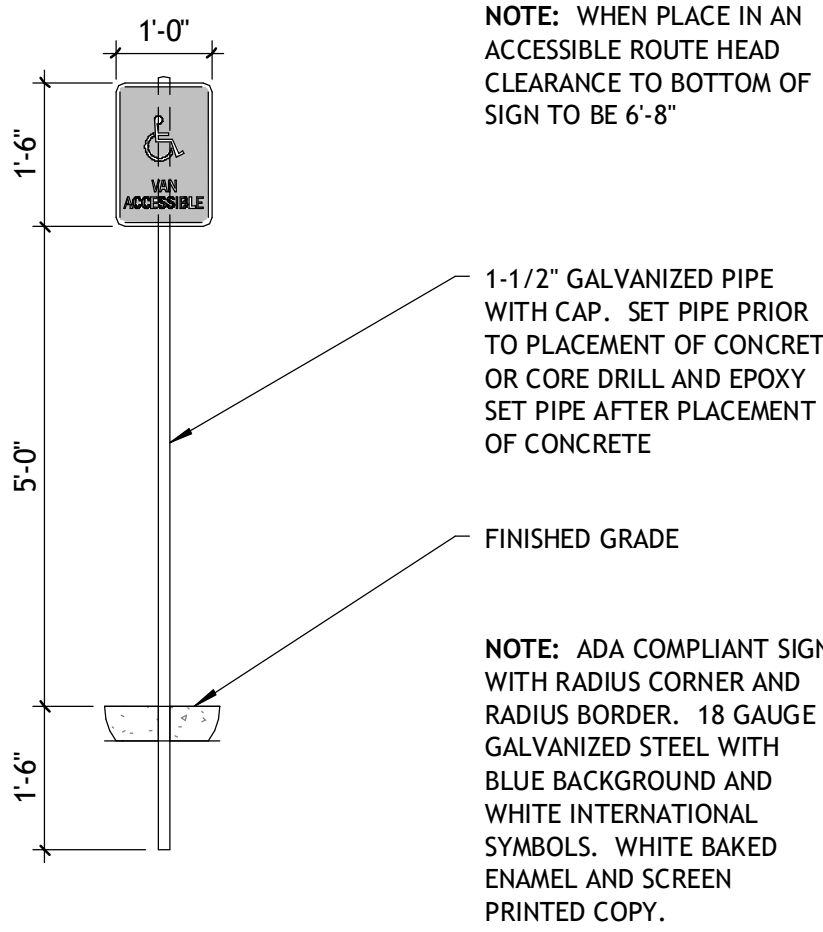
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A1 ADA PARKING SIGN

AS501 | SCALE: 1/2" = 1'-0"

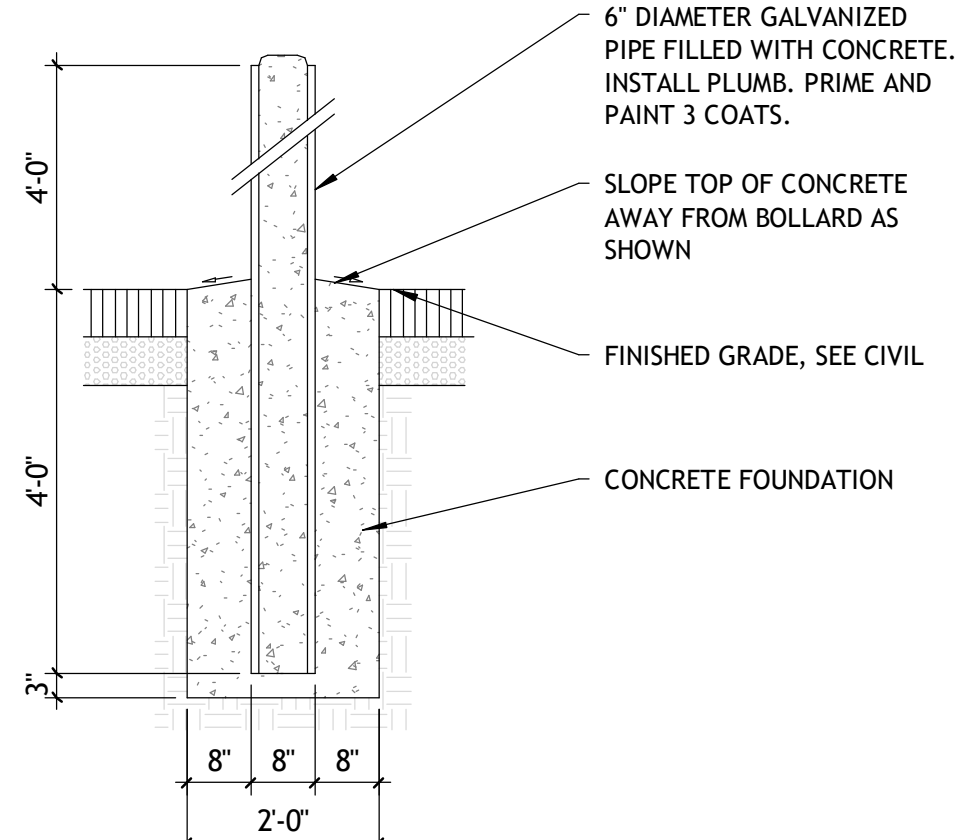
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A2 ADA VAN PARKING SIGN

AS501 | SCALE: 1/2" = 1'-0"

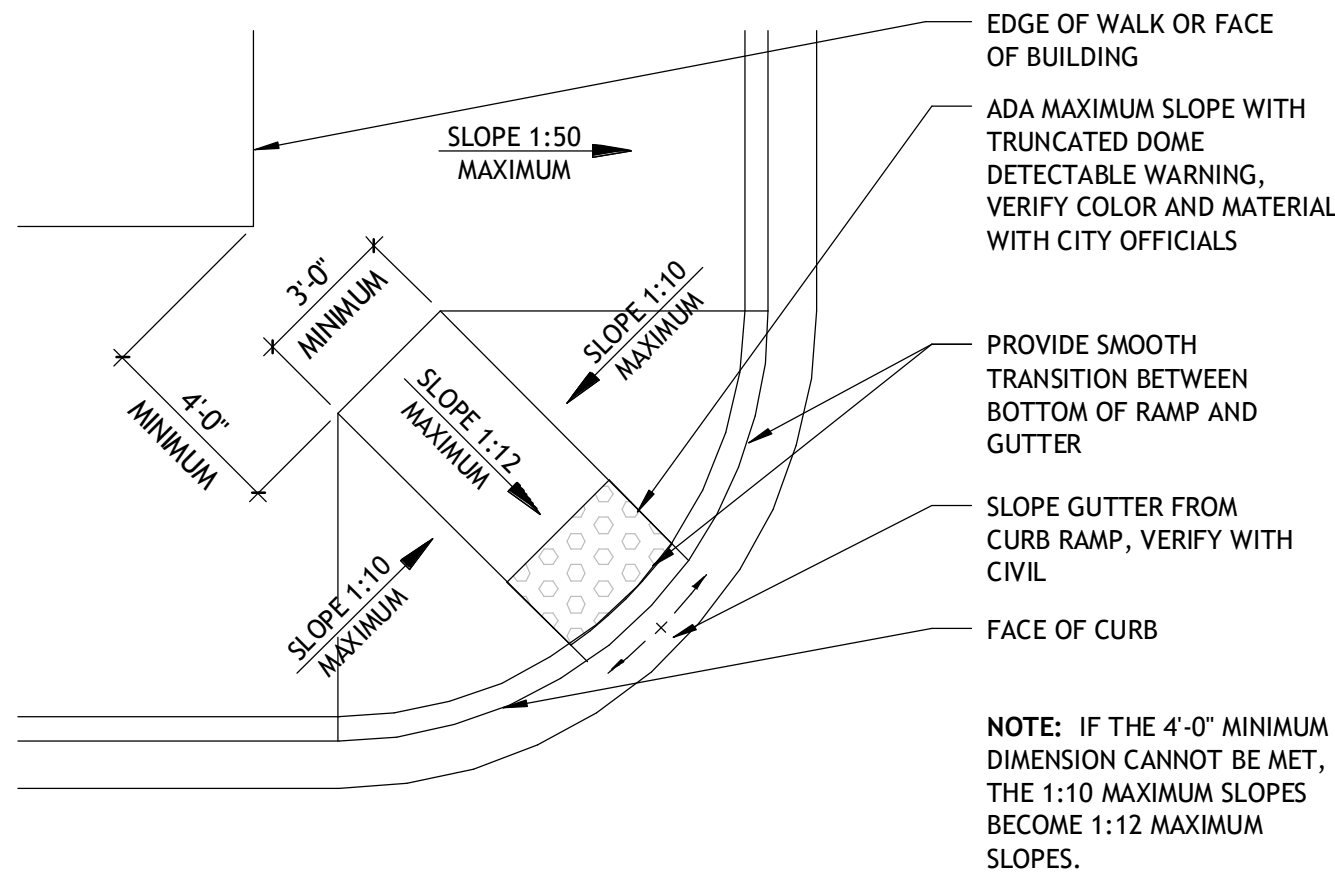
3



A3 BOLLARD DETAIL

AS501 | SCALE: 1/2" = 1'-0"

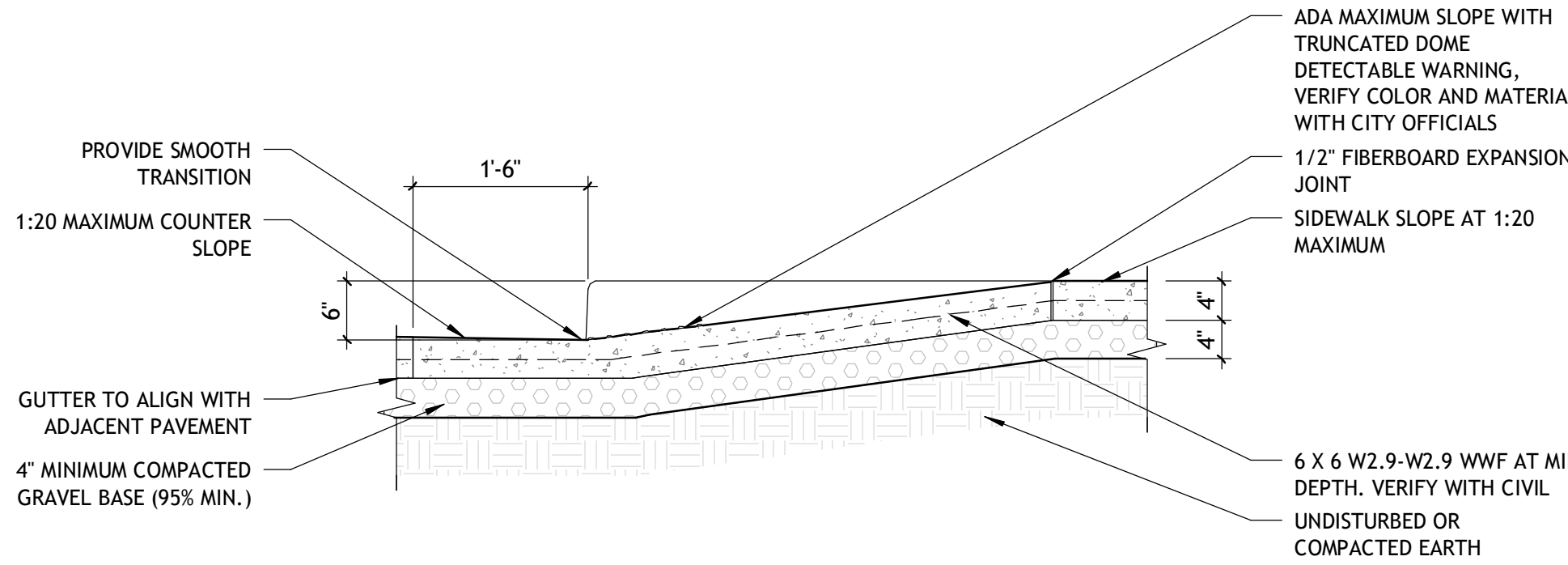
4



B4 CURB RAMP DETAIL

AS501 | SCALE: 1/4" = 1'-0"

B



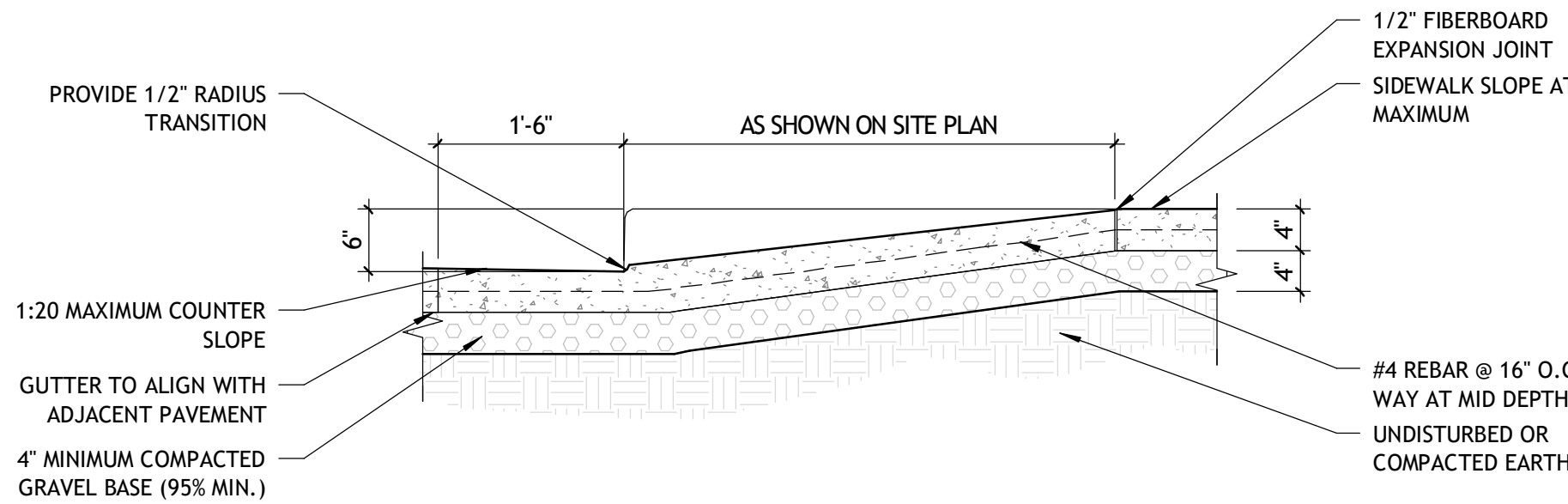
B1 CURB RAMP SECTION

AS501 | SCALE: 3/4" = 1'-0"

B3 CURB RAMP DETAIL

AS501 | SCALE: 1/4" = 1'-0"

C



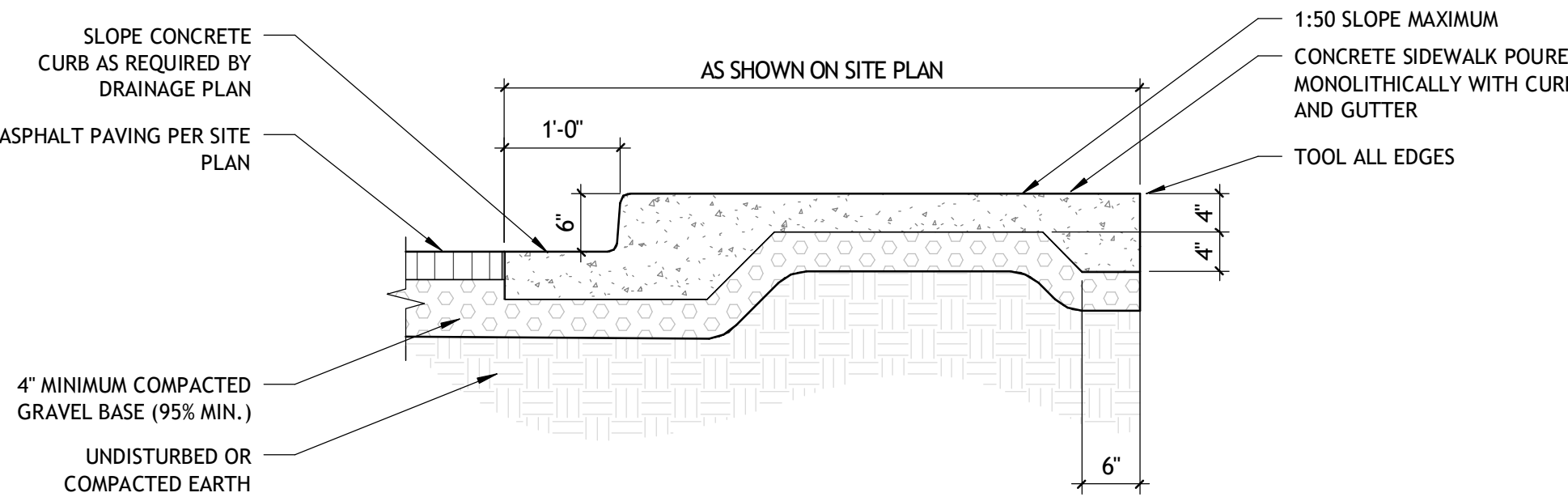
C1 CONCRETE DRIVE APPROACH

AS501 | SCALE: 3/4" = 1'-0"

C3 CURB RAMP DETAIL

AS501 | SCALE: 1/4" = 1'-0"

D



D1 COMBINED CONCRETE CGS DETAIL

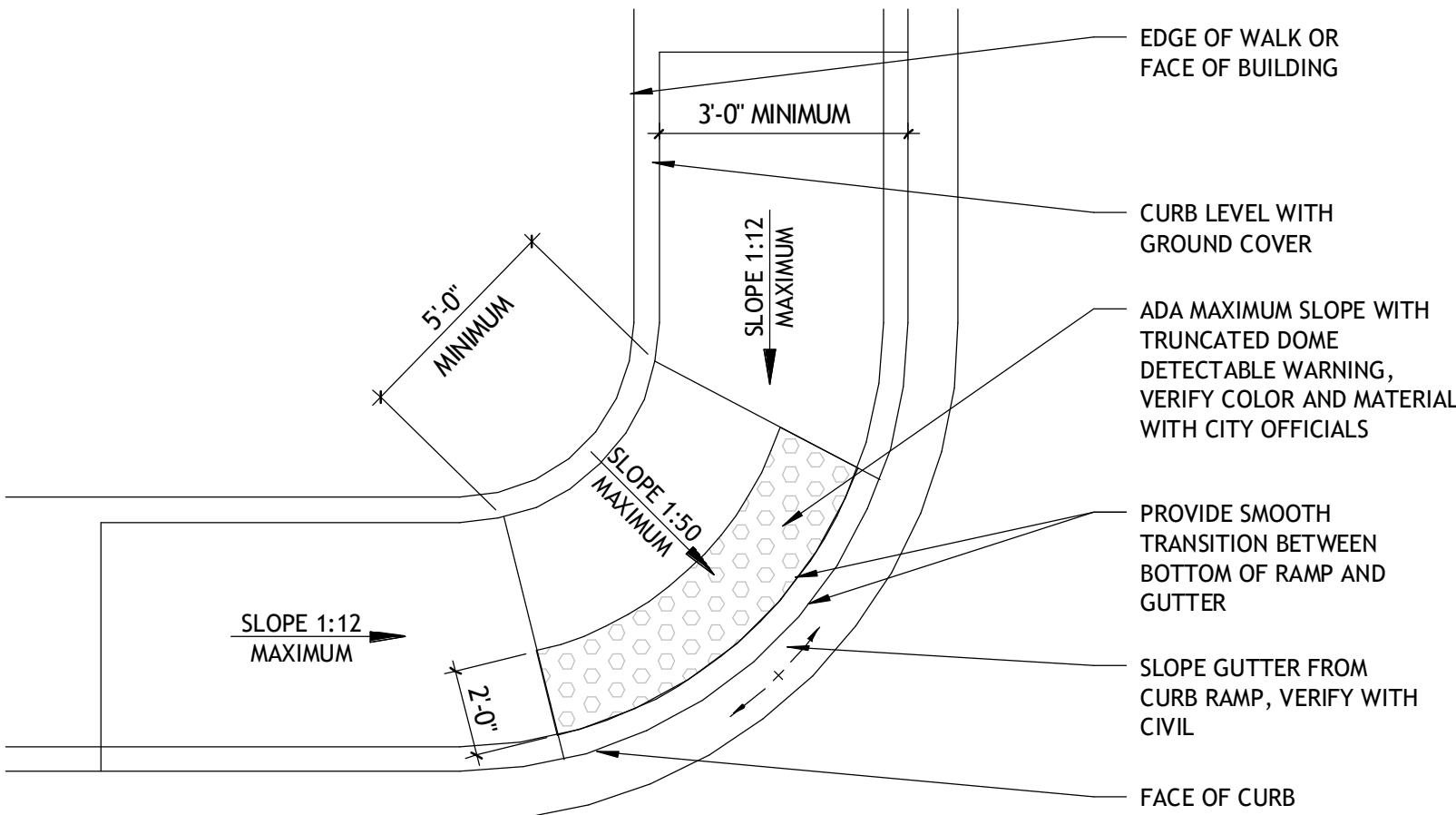
AS501 | SCALE: 3/4" = 1'-0"

D3 CURB RAMP DETAIL

AS501 | SCALE: 1/4" = 1'-0"

D4 CURB RAMP DETAIL

AS501 | SCALE: 1/4" = 1'-0"



BID NOTES

REQUIRED CFCL:

- CONCRETE
- BOLLARDS
- 6X6 TUFF SHED (OR EQUIVALENT)
- FIRE RATED AST DOUBLE WALLED STORAGE TANKS
- ELECTRICAL AND PHONE LINES TO SHED AND TANKS
- DOUBLE WALLED PIPING.

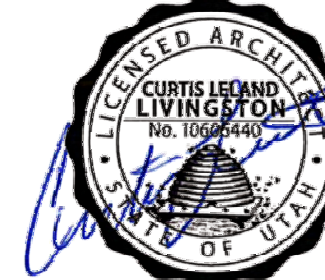
STATE FUEL TO PROVIDE OFCL:

- EMERGENCY TANK VENTS
- PRIMARY TANK VENTS
- MECHANICAL TANK GAUGES
- GAS BOY ATLAS DUAL / DUAL DISPENSERS
- RED JACKET SUBMERSIBLE PUMPS
- ELECTRIC SOLENOID VALVES
- VEEDOR ROOT TANK INTERSTITIAL SENSOR
- VEEDOR ROOT TANK SUMP SENSOR
- VEEDOR ROOT TANK MONITORING PROBES, PORT ADAPTERS, & FLOAT KITS
- OVERFILL ALARM UNIT & ACKNOWLEDGE SWITCH
- TWO X TWO REMOTE FILL
- OVERFILL VALVES
- VAPOR RECOVERY CONNECTION
- FLEX CONNECTORS
- SHEAR VALVES
- DISPENSER ABOVE GROUND CONTAINMENT PEDESTAL.
- PETROVEND CARD READER SYSTEMS

GENERAL NOTES

- TRUNCATED DOMES PATTERNS AND PLACEMENTS SHALL MEET ALL ADA CODE COMPLIANCE REQUIREMENTS. THE TRUNCATED DOME MATERIAL SHALL MEET ALL CITY STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE APPROVED MATERIALS WITH THE CITY DURING THE BIDDING PROCESS.
- REMOVAL OF OLD SITE TO BE MANAGED/COORDINATED THROUGH STATE FUEL NETWORK. NEED TO FOLLOW DEPT. OF ENVIRONMENTAL QUALITY RULES. STATE FUEL NETWORK IS LISTED UNDER DEQ AS THE OPERATOR AND HOLDS THE REQUIREMENT TO OVERSEE THE EFFORTS.REMOVAL REQUIRES BLUE STAKES, DEER CLOSURE PLAN, TANK CLEANING AND SOIL TESTING AS PART OF THE EXCAVATION AND REFILL.

PROFESSIONAL STAMP



3/29/24

CONSULTANT INFORMATION

REVISIONS

△ DESCRIPTION	DATE

PROJECT INFORMATION

DATE:	MARCH 29, 2024
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PIC:	CLL

DRAWING SET STATUS

BID DOCUMENTS

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TO BE PRINTED IN COLOR

SHEET TITLE

SHEET NUMBER

AS501

CHAIN LINK FENCE NOTES

GENERAL CHAIN LINK NOTES:

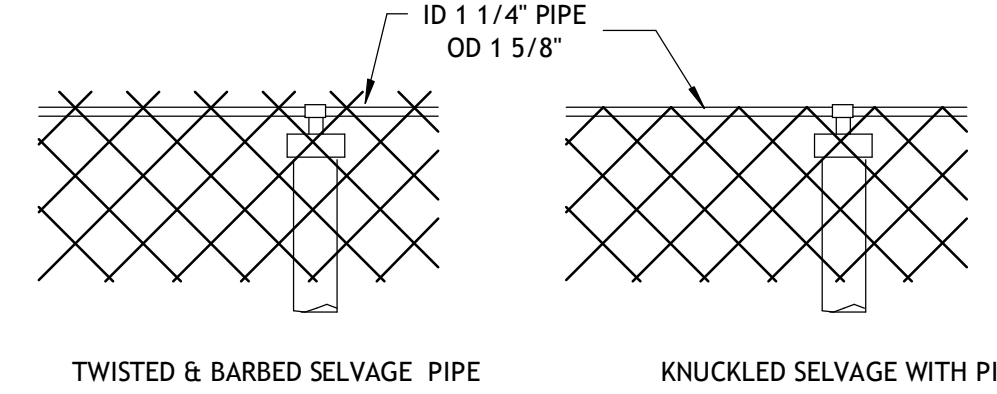
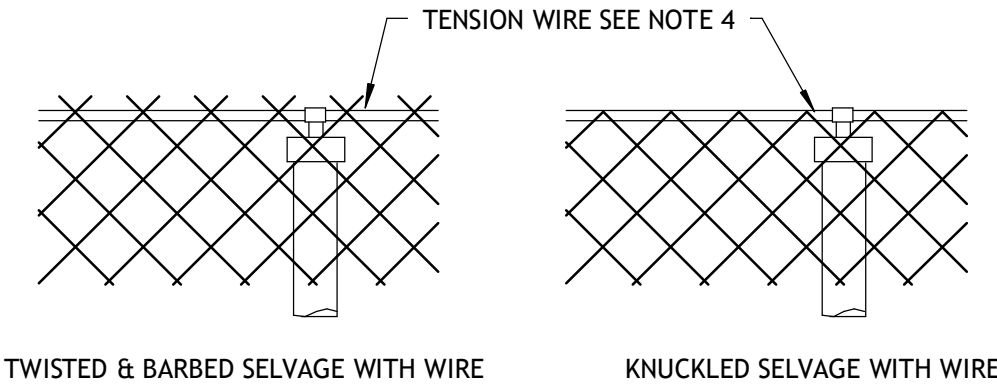
1. USE TWISTED AND BARBED SELVATE, TOP AND BOTTOM FOR FENCES 5'-0" OR HIGHER.
2. USE KNUCKLED SELVATE ON TOP AND TWISTED AND BARBED SELVAGE ON BOTTOM FOR FENCES LOWER THAN 5'-0".
3. TRUSS RODS AND BRACES ARE NOT REQUIRED FOR FABRIC HEIGHTS LESS THAN 5'-0" HIGH.
4. TENSION WIRE: USE ZINC COATED, GALVANIZED, NO. 7 GAGE SPRING COIL STEEL. SET SIRE AT 1 INCH OVER NATURAL GROUND OR 6 INCHES OVER CONCRETE STRUCTURES.
5. PIPE: USE ASTM A 120, SCHEDULE 40, HOT DIPPED ZINC COATED STEEL.

POST SPACING:

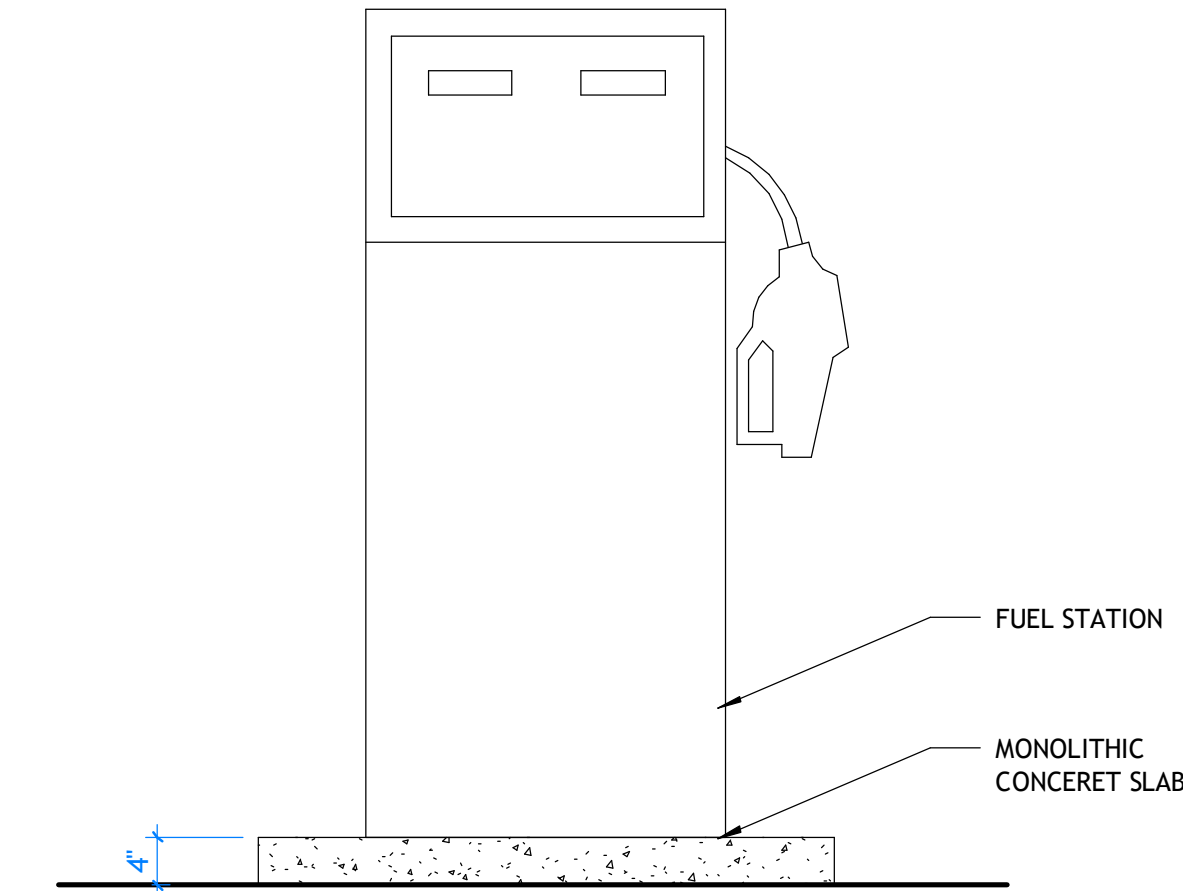
- A. LOCATE POSTS AT EQUAL SPACING FOR EACH SEGMENT WITH MAXIMUM SPACING AS SHOW BELOW:
- | | |
|---------------------------------|---------|
| TANGET SECTIONS TO 500' RADIUS: | 10 FEET |
| 200'-500' RADIUS: | 8 FEET |
| 100'-200' RADIUS: | 6 FEET |
| LESS THAN 100' RADIUS: | 5 FEET |
- B. PROVIDE PULL POSTS AT 500' MAXIMUM INTERVALS. CHANGES IN LINE OF 30 DEEGRESS OR MORE ARE CONSIDERED CORNERS.
- C. BARM WIRE ARM: FACE ARM TOWARDS EXTERIOR OF FENCED AREA.
- D. CONCRETE USED FOR FENCE INSTALLATION SHALL BE CLASS 4000. APPLY A SEAL/CURING COMPOUND.

FENCE POSTS					
HEIGHT OF FABRIC	DEPTH OF POSTS	LENGTH OF END CORNER, OR PULL POST	LENGHT OF POST LINE	MINIUMUM SIZE	
7'-0"	3'-0"	10'-0"	9'-8"	2 1/2"	2"
6'-0"	3'-0"	9'-0"	8'-8"	2 1/2"	2"
5'-0"	3'-0"	8'-0"	7'-8"	2"	1 1/2"
4'-0"	2'-0"	6'-0"	5'-8"	2"	1 1/2"

GATE POSTS AND GATE FRAMES			
HEIGHT	FRAME	GAEP OPENING	POST
UNDER 6 FEET	1 1/2"	SINGLE TO 6'-0" OR DOUBLE TO 12'-0"	2"
	1 1/2"	SINGLE OVER 6'-0" TO 8'-0" OR DOUBLE OVER 12'-0" TO 16'-0"	2 1/2"
	1 1/2"	SINGLE OVER 8'-0" TO 12'-0" OR DOUBLE OVER 16'-0" TO 24'-0"	3 1/2"
6 FEET AND OVER	1 1/2"	SINGLE TO 6'-0" OR DOUBLE TO 12'-0"	2 1/2"
	1 1/2"	SINGLE OVER 6'-0" TO 13'-0" OR DOUBLE OVER 12'-0" TO 26'-0"	3 1/2"
	1 1/2"	SINGLE OVER 13'-0" TO 18'-0" OR DOUBLE OVER 26'-0" TO 36'-0"	6"
	1 1/2"	SINGLE TO 18'-0" OR DOUBLE TO 36'-0"	8"



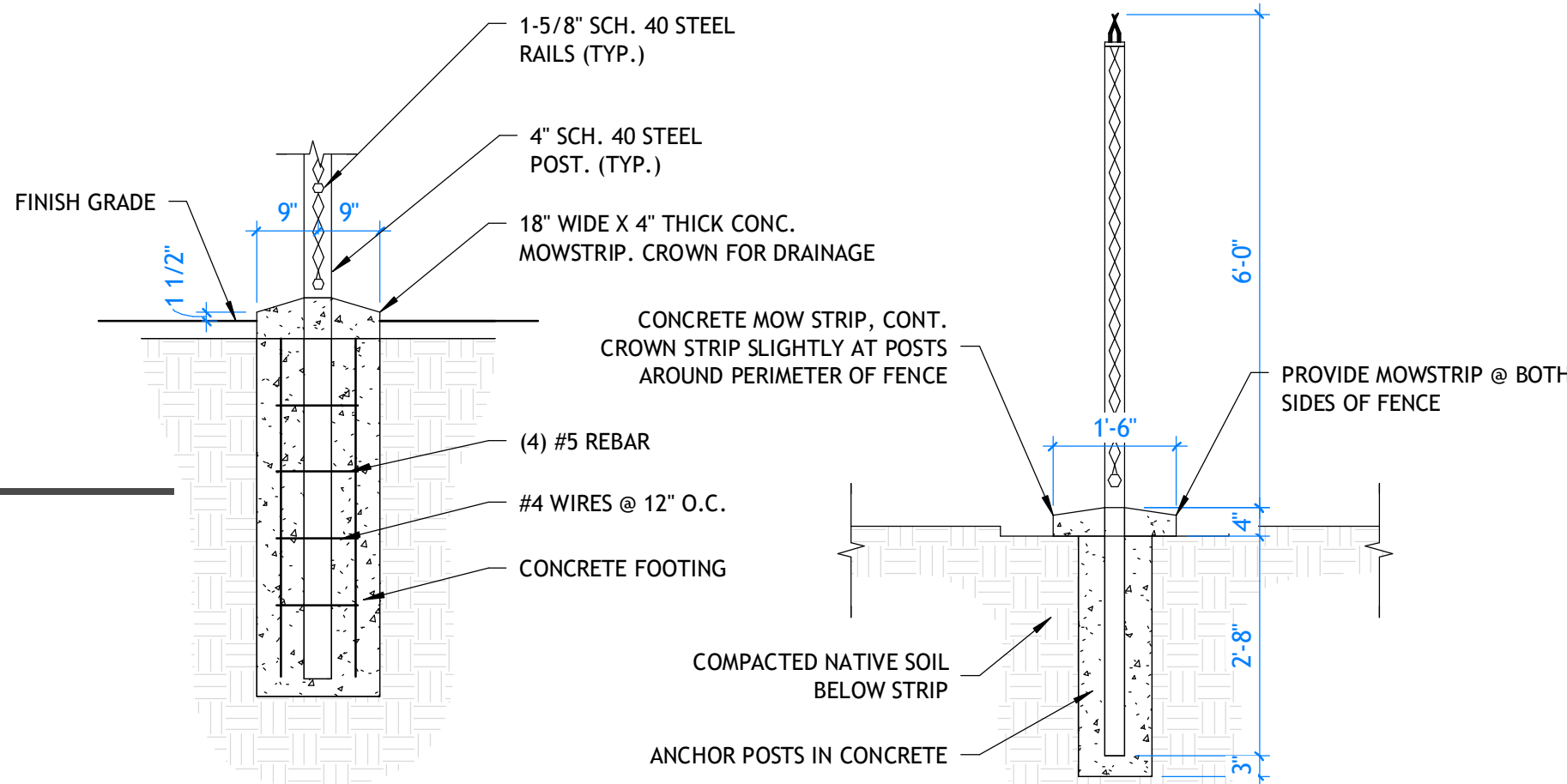
SEE NOTES 1 AND 2 (TYP)



A5 FUEL TANK CONCRETE SLAB

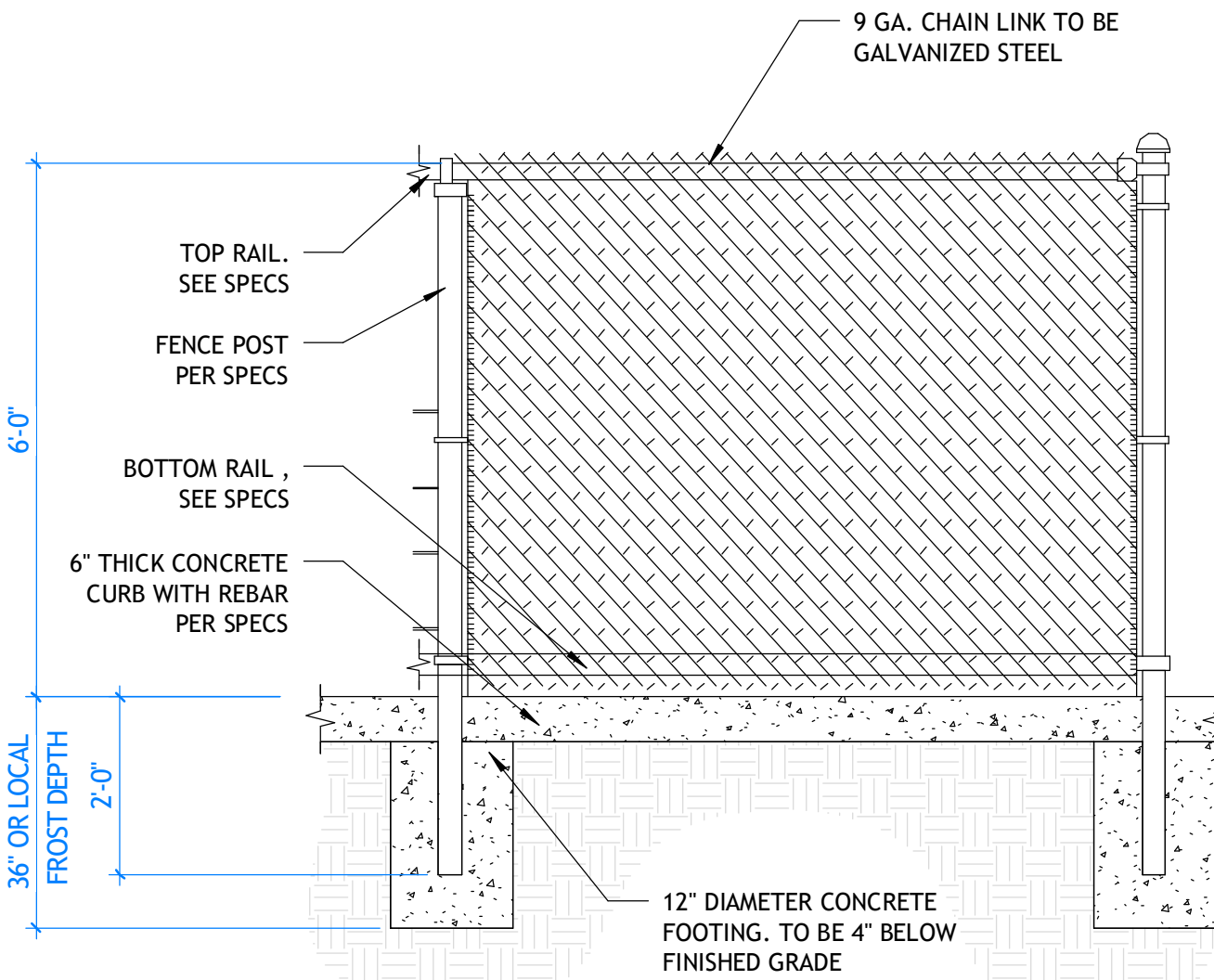
AS502 | SCALE: 3/4" = 1'-0"

FABRIC



C4 TYPICAL FENCE & MOW STRIP DETAIL

AS502 | SCALE: 1/2" = 1'-0"



C6 PERIMETER FENCE WITH CURB DETAIL

AS502 | SCALE: 1/2" = 1'-0"

CONCRETE

1. CONCRETE SHALL CONFORM TO ALL REQUIREMENTS OF ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", EXCEPT AS MODIFIED BY THE SUPPLEMENTAL REQUIREMENTS BELOW:

NO WATER TO BE ADDED TO CONCRETE ON SITE EITHER BEFORE OR AFTER PLACEMENT

ELEMENT TYPE	MIN. COMP. STRENGTH f _c (psi)	EXPOSURE CLASSES				CEMENT TYPE	MAX. W/C RATIO	AIR CONTENT %	MAX. AGG. SIZE	MAX. FLY ASH %	APPLICABLE SPECIFIC INSTRUCTION NOTES
		F	S	P	C						
EXTERIOR SLAB ON GRADE	4000	F2	S0	P0	C2	II	0.40	5 1/2	1 1/2"	25	
EXT. REINFORCED SLAB ON GRADE	4000	F2	S0	P0	C2	II	0.40	5 1/2	1 1/2"	25	

SPECIFIC INSTRUCTION NOTES:

- A. PROVIDE FIBRILLATED MICRO-REINFORCEMENT PLOYPROPELENE FIBERS TO THE CONCRETE AT THE RATE OF 2 LBS/YD3/PRIOR TO PLACEMENT PER ASTM C-116, TYPE III, SECTION 4.1.3
- B. XYPEX NOTE: XYPEX MIXTURE TO BE ADDED TO CONCRETE MIX FOR WATER PROOFING REQUIREMENT, AT A RATE OF 2% BY WEIGHT OF CEMENTITIOUS MATERIAL. CONTACT MANUFACTURER FOR MIX DESIGN REQUIREMENTS AND PLACEMENT. <http://www.imxtechnologies.com/>
- C. POST TENSION CONCRETE SHALL ACHIEVE A COMPRESSIVE STRENGTH OF 3,000 PSI MINIMUM WITHIN 72 HOURS AFTER PLACEMENT.
- D. LIGHTWEIGHT CONCRETE SHALL BE USED.
- E. A PE4 GRAVEL MIX SHALL BE USED.

ADDITIONAL COMMENTS:

1. THE DESIGN IS F_C=2,500 PSI FOR FOOTING AND FOUNDATIONS & THEREFORE, NO SPECIAL INSPECTIONS IS REQUIRED.
2. THE FOOTING DETAIL SHOWS ONE FOOTING. TWO IDENTICAL FOOTINGS WILL BE REQUIRED TO SUPPORT THE FUEL TANK. SPACING BETWEEN FOOTINGS SHALL BE COORDINATED WITH FUEL TANK SUPPORTS.
4. AIR ENTRAINMENT SHALL BE ADJUSTED FOR THE USE OF ADMIXTURES AND FLY ASH.
5. SUPERPLASTICIZER MAY BE ADDED TO INCREASE SLUMP AS REQUIRED FOR PLACEMENT.
6. CALCIUM CHLORIDE SHALL NOT BE ADDED TO THE CONCRETE MIX.
7. USE TYPE V CEMENT WHEN HIGH SULPHATE RESISTANCE IS REQUIRED BY THE GEOTECHNICAL REPORT OR WHEN THE 'S' EXPOSURE CLASS IS DESIGNATED AS S2 OR S3. IF S3 IS REQUIRED, POZZOLAN OR SLAG CEMENT IN ACCORDANCE WITH ASTM C1012 IS ALSO REQUIRED.

8. MATERIAL DESIGNATIONS:

- | | |
|--|----------------------|
| A. CEMENT | =ASTM C150 |
| B. NORMAL WEIGHT AGGREGATES | =ASTM C33 |
| C. LIGHTWEIGHT AGGREGATES | =ASTM C330 |
| D. FLY ASH, CLASS F POZZOLAN | =ASTM C618 |
| E. REINFORCING STEEL | |
| a. NORMAL | =ASTM A615 |
| b. WELDABLE | =ASTM A706 |
| F. DEFORMED BAR ANCHORS (DBA) | =ASTM A496 |
| G. HEADED STUD ANCHORS (HSA) | =ASTM A108 |
| H. AIR ENTRAINMENT ADMIXTURES | =ASTM C260 |
| I. WATER REDUCING ADMIXTURES | =ASTM C494, TYPE 'A' |
| J. RETARDING ADMIXTURES | =ASTM C494, TYPE 'B' |
| K. WATER REDUCING & RETARDING ADMIXTURES | =ASTM C494, TYPE 'D' |
| L. HIGH RANGE WATER REDUCING ADMIXTURES | =ASTM C494, TYPE 'F' |
| M. HIGH RANGE WATER REDUCING & RETARDING ADMIXTURES | =ASTM C494, TYPE 'G' |
| N. ADMIXTURES ARE TO COME FROM AN ISO9001 QUALITY CERTIFIED MANUFACTURER. ALL ADMIXTURES ARE TO COME FROM THE SAME MANUFACTURER TO ENSURE COMPABILITY. | |
| O. NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY PRODUCTS THAT REACT ADVERSLY WITH THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE. | |

9. A STATEMENT OF MIX DESIGN FOR ALL CONCRETE SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCING WORK.

10. PLACEMENT, CURING, AND PROTECTION OF CONCRETE SHALL CONFORM TO ACI 318-14. THE USE OF CHEMICALS OR ADDITIVES TO PREVENT FREEZING SHOULD NOT BE PERMITTED. REFER TO SPECIFICATIONS AND TO DIRECTIVES BY STRUCTURAL ENGINEER FOR ADDITIONAL COLD WEATHER REQUIREMENTS. ALL CONCRETE SHALL BE PROPERLY VIBRATED IN PLACE USING INTERNAL VIBRATING RODS (MECHANICAL OR ELECTRICAL).

11. ALL SLABS ON GRADE SHALL BE PLACED WITH CONTROL JOINTS OR SAW CUTS AT NO MORE THAN 30 TIMES THE SLAB THICKNESS ON CENTER (MAXIMUM) OR AS SHOWN/NOTED ON DRAWINGS. LENGTH TO WIDTH RATIO OF THE SLAB BETWEEN CONTROL JOINTS EACH WAY SHALL BE NO MORE THAN 1.25. COMPLETE CONTROL JOINTS WITHIN 12 HOURS OF CONCRETE PLACEMENT. TOOLED CONTROL JOINTS ARE TO BE AT MINIMUM 1/4 OF THE SLAB THICKNESS AND NO MORE THAN 1/3 OF THE SLAB THICKNESS. FOR SAW CUT CONTROL JOINTS, SEE THE SLAB JOINT TYPICAL DETAILS.

12. SLAB ON GRADE CONSTRUCTION JOINTS SHALL NOT EXCEED 125'-0" O.C. IN ANY DIRECTION. CONSTRUCTION JOINTS MAY BE EITHER A DOWEL TYPE CONSTRUCTION JOINT OR A KEYWAY TYPE CONSTRUCTION JOINT. SEE THE SLAB JOINT TYPICAL DETAILS FOR MORE INFORMATION.

13. CONCRETE TESTS WILL BE MADE ON MAJOR POURS AND AT SUCH OTHER TIMES AS MAY BE REQUIRED BY THE ENGINEER. EACH TEST SHALL CONSIST OF (3) CYLINDERS OF WHICH ONE SHALL BE TESTED AT SEVEN DAYS, ONE TESTED AT TWENTY-EIGHT DAYS AND ONE RETAINED IN RESERVE FOR LATER TESTS, IF REQUIRED. IN GENERAL, ONE TEST SHALL BE MADE FOR EACH 100 CUBIC YARDS OF CONCRETE ON EACH DAY'S POUR. SPECIMENS SHALL BE MADE AND TESTED IN ACCORDANCE WITH ASTM C31 & C39 STANDARDS. SLUMP AND AIR ENTRAINMENT TESTS SHALL ALSO BE MADE WITH EACH SET OF CYLINDERS TAKEN.

14. BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO INSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, BOLTS, INSERTS, ETC., RELATED TO THE WORK.

15. THE CONTRACTOR IS RESPONSIBLE FOR THE PLACEMENT, REMOVAL, AND DESIGN OF ALL FORMWORK AND SHORING.

16. SUSPENDED CONCRETE STRUCTURAL MEMBERS SHALL NOT BE STRIPPED OF FORMS UNTIL CONCRETE HAS REACHED ITS DESIGN STRENGTH.

17. FOR LAP SPLICE LENGTH, SEE LAP SPLICE SCHEDULE.

18. SEE CIVIL DRAWINGS FOR SITE CONCRETE REQUIREMENTS.

D2 FUEL TANK CONCRETE SLAB

AS502 | SCALE: 3/4" = 1'-0"

PROFESSIONAL STAMP



CONSULTANT INFORMATION

REVISIONS

Δ DESCRIPTION	DATE

PROJECT INFORMATION

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PIC:	CLL

DRAWING SET STATUS

BID DOCUMENTS

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SHEET TITLE

ARCHITECTURAL SITE DETAILS

SHEET NUMBER

AS502

Autodesk Docs / 23-089 CSD Transportation Fuel Station Relocation / 23202 - CSD Transportation Center - Fuel Station Relocation - ELEC 022.rvt
3/29/2024 1:28:00 PM

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

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	N/A	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	BARF 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	PFR	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	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	VA/R	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	KILOVAR	XFMR	TRANSFORMER
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTG	LIGHTING	1P	SINGLE-PHASE
MANF	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		

SHEET INDEX	
E001	ELECTRICAL SYMBOLS AND NOTES
E002	ELECTRICAL SCHEDULES
E050	ELECTRICAL DIAGRAMS
E061	ELECTRICAL DIAGRAMS
E0111	ELECTRICAL DEMOLITION SITE PLAN
E111	ELECTRICAL SITE PLAN
E112	LIGHTING SITE PLAN

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 265100 (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 ARCHITECT.
- 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.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING			
MAXIMUM LENGTH	BRANCH CIRCUIT VOLTAGE		
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT	
<70	MIN. #12 AWG	MIN. #12 AWG	
70 - 115	MIN. #10 AWG	MIN. #12 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.
- DIVISION 26 SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. FIELD VERIFY ALL ELECTRICAL EQUIPMENT. 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 CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM.
- CAREFULLY REVIEW THE ENTIRE DRAWING PACKAGE PRIOR TO PROVIDING BID, INCLUDING THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOT REVIEWING THE ENTIRE SET IS NOT ACCEPTABLE.
- ELECTRICAL CONTRACTOR SHALL COORDINATE PROJECT PHASING WITH GENERAL CONTRACTOR AND BID AND PERFORM RESPONSIBILITIES FOR THIS PROJECT TO GENERAL CONTRACTOR EXPECTATIONS.
- COORDINATE ELECTRICAL DEMOLITION WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR.
- CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH HEAD CUSTODIAN AND OWNER.
- WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF WORK REQUIRED, THE CONTRACTOR WILL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION OF THE OWNER.
- SEQUENCE, COORDINATE AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING IN THE BUILDING. COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE INSTALLATION OF ELECTRICAL EQUIPMENT AND MATERIALS.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANYVALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.
- CONTRACTOR MUST CONCEAL ALL RACEWAYS THROUGHOUT THE PROJECT. SURFACE MOUNT RACEWAY IS UNACCEPTABLE EXCEPT WHERE THE USE OF PAINTED SURFACE METAL RACEWAYS (EMT) IS APPROVED SOLELY BY THE ARCHITECT. PAINT TO MATCH SURROUNDING SURFACE.
- ALL CONCRETE CUT AND PATCHWORK REQUIRED FOR FLOOR BOXES INSTALLATION AND/OR RELOCATION OF ELECTRICAL DEVICES AND PANELS THAT REQUIRE WORK WITHIN THE FLOORS SHALL BE DONE BY AN ELECTRICAL CONTRACTOR. ALL CORE CUTTING FOR NEW SERVICE SHALL ALSO BE COVERED UNDER ELECTRICAL CONTRACTORS REQUIRED WORK.
- CONTRACTOR SHALL AT ALL TIMES KEEP THE PREMISES FREE OF ALL WASTE, SURPLUS MATERIALS, RUBBISH, OR DEBRIS WHICH IS CAUSED BY HIS EMPLOYEES OR RESULTING FROM HIS WORK. AFTER ALL EQUIPMENT AND DEVICES HAVE BEEN INSTALLED, REMOVE ALL LABELS, STICKERS, STAINS, TEMPORARY COVERS, ETC. IDENTIFICATION PLATES ON ALL EQUIPMENT.
- IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.
- CAREFULLY REVIEW THE ENTIRE DRAWING PACKAGE PRIOR TO PROVIDING BID, INCLUDING THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOT REVIEWING THE ENTIRE SET IS NOT ACCEPTABLE.
- PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS. CEILINGS WITH CLOUDS ARE CONSIDERED OPEN/EXPOSED CEILINGS. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
- PROVIDE WEATHERPROOF, NEMA 3R RATED EQUIPMENT FOR ALL EXTERIOR APPLICATIONS.

SYMBOL LEGEND									
NOTES:									
1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.					12. COORDINATE WITH DOOR HARDWARE SUPPLIER.				
2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.					13. FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +16" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.				
3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.					14. ARROWS SHOWN ON DEVICE INDICATE AIMING DIRECTION.				
4. SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.					15. CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.				
5. NEMA TYPE "ND" NON-FUSED UNLESS NOTED "F" (FUSED). USE "HD" 480 V.					16. MOUNT ON TRACK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.				
6. HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.					17. INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.				
7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.					18. DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.				
8. DOUBLE ARROWS INDICATES A DOUBLE FACE UNIT.					19. SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION.				
9. DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.					20. MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.				
10. SUBSCRIPT INDICATES NEMA CONFIGURATION.									
11. SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.					*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.				
STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS									
GENERAL									
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES	SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES		
	ONE CIRCUIT, HOME RUN TO PANEL				EQUIPMENT PANEL, SEE DRAWINGS	+72"	6.		
	2 CIRCUIT, HOME RUN TO PANEL				CABLE TRAY	AS NOTED			
	3 CIRCUIT, HOME RUN TO PANEL				GROUND BUS BAR	+18"	6.		
	CONDUIT RUN CONCEALED IN WALL OR CEILING				LIGHT FIXTURE (LETTER DESIGNATES TYPE)				
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND				EQUIPMENT NUMBER				
	CONDUIT UP				ARCHITECTURAL ROOM NUMBER				
	CONDUIT DOWN				DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE				
	CONDUIT STUB LOCATION	CAP CONDUIT			DEVICE / EQUIPMENT (TEXT DESIGNATES TYPE) SEE SCHEDULE / LEGEND				
	CONDUIT / CIRCUIT CONTINUATION								
MULTIPLE SYSTEM SYMBOLS									
	RECEPTACLE SWITCH PACK	ABOVE CEILING			JUNCTION BOX (F' IN FLOOR)	AS NOTED			
	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.		MOTOR OUTLET	TO SUIT EQUIP.	2.		
	SIMPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.		PUSHBUTTON	+46"	2.		
	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.		NON-FUSED DISCONNECT SWITCH	+60"	5. 6.		
	DUPLEX RECEPTACLE		9.		FUSED DISCONNECT SWITCH	+60"	5. 6.		
	5mA GFCI CIRCUIT BREAKER PROTECTED RECEPTACLE		13.		BREAKER DISCONNECT SWITCH	+60"	5. 6.		
	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.		SINGLE POLE SWITCH	+46"	2. 4.		
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.		MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+46"	2.		
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.		MAGNETIC STARTER	+60"	6. 7.		
	FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.		MAGNETIC STARTER / DISCONNECT COMBINATION	+60"	6. 7.		
	GROUND FAULT INTERRUPTER FOURPLEX RECEPT	+18" OR AS NOTED	2. 9.		VARIABLE FREQUENCY DRIVE	+66"	6.		
LIGHTING									
	CEILING LIGHT FIXTURE	CEILING	1.		DIGITAL ROOM CONTROLLER (SUBSCRIPT INDICATES NUMBER OF RELAYS)	ABOVE CEILING	SEE DIAGRAM, SPEC.		
	WALL LIGHT FIXTURE	AS NOTED	1.		EMERGENCY LIGHTING CONTROL UNIT	ABOVE CEILING	SEE DIAGRAM, SPEC.		
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.		THREE-WAY SWITCH	+46"	2. 4.		
	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.		FOUR-WAY SWITCH	+46"	2. 4.		
	LIGHT FIXTURE	AS NOTED	1.		KEY OPERATED SWITCH	+46"	2. 4.		
	EGRESS LIGHT FIXTURE	AS NOTED	1.		DUAL TECH. CEILING MOUNTED OCCUPANCY SENSOR (PROVIDE WITH ALL PP AND ROOM CONTROLLERS)	CEILING	SEE DIAGRAM, SPEC.		
	AREA LIGHT POLE AND FIXTURE POST TOP LIGHT POLE AND FIXTURE	CONCRETE BASE	1. 14. SEE DIAGRAM		DUAL TECH. WALL MOUNTED OCCUPANCY SENSOR (SUBSCRIPT D = DIMMING AND DAYLIGHT CONTROL)	+46"	2. 4. SEE DIAGRAM, SPEC.		
	BOLLARD	CONCRETE BASE	1. 14. SEE DIAGRAM		PHOTO-ELECTRIC CONTROL (LOCATE ON ROOF, FACE NORTH)	AS NOTED	MOUNT AS PER MFR.		
	POWER PACK	ABOVE CEILING	SEE DIAGRAM, SPEC.		DIGITAL DAYLIGHT SENSOR	CEILING	SEE DIAGRAM, SPEC.		
POWER									
	ISOLATED GROUND RECEPTACLE	+18" OR AS NOTED	2. 9.		PLUGMOLD	+46" OR AS NOTED	2. SEE SPEC.		
	TAMPER-PROOF RECEPTACLE	+18" OR AS NOTED	2. 9.		FLAT PANEL DISPLAY WALL BOX TVSS RECEPT., DATA AND OTHER DEVICES, REFER TO DIAGRAMS	AS NOTED	SEE DIAGRAM, SPEC. 26 2726		
	DUPLEX RECEPTACLE WITH USB OUTLET	+18" OR AS NOTED	2. 9.		CEILING PROJECTION SYSTEM CEILING BOX	ABOVE CEILING	SEE DIAGRAM, SPEC.		
	CONTROLLED DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.		DOORBELL CHIME	+90"	2.		
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.		FLOOR BOX - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.		
	CONTROLLED FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.		POKE THRU - SEE SCHEDULE	FLOOR	SEE DIAGRAM, SPEC.		
	TVSS PROTECTED RECEPTACLE	+18" OR AS NOTED	2. 9.		PANELBOARD	+72"	6.		
	SPECIAL PURPOSE OUTLET	+18" OR AS NOTED	2. 10. W/ CAP.		MAIN DISTRIBUTION PANEL				
	CORD DROP		SEE DIAGRAM		TELEPHONE DEMARCATION BOARD				
	CORD REEL		SEE DIAGRAM		EQUIPMENT CEILING RACK	CEILING			
	TOMBSTONE RECEPTACLE				EQUIPMENT 4-POST RACK / CABINET	AS NOTED	18. SEE SPEC.		
	POWER POLE				EQUIPMENT 2-POST RACK	AS NOTED	18. SEE SPEC.		
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER				UTILITY METER / CT CABINET	+72"	6.		
TELECOMMUNICATIONS									
	WALL PHONE	+60" OR AS NOTED	2.		WIRELESS ACCESS POINT, TWO CABLES SOLID = WALL, DASHED = CEILING	WALL / CEILING	11.		
	DATA OUTLET, ONE CABLE	+18" OR AS NOTED	2. 9. 11.		SPLITTER	ABOVE CEILING			
	DATA OUTLET, TWO CABLES	+18" OR AS NOTED	2. 9. 11.		VIA	ABOVE CEILING			
	DATA OUTLET, THREE CABLES	+18" OR AS NOTED	2. 9. 11.		FIBER BDA	ABOVE CEILING			
	DATA OUTLET, "X" INDICATES QUANTITY	+18" OR AS NOTED	2. 9. 11.		ANTENNA PS = PUBLIC SAFETY, COM = CELLULAR/COMMERCIAL	CEILING			
	TELEVISION OUTLET	+18" OR AS NOTED	9. 11.						
SECURITY									
	IP CAMERA - SEE SCHEDULE	AS NOTED	14. 15.		DOOR HOLD OPEN	AS NOTED	17.		
	NETWORK VIDEO RECORDER				ELECTRIC DOOR STRIKE	DOOR JAMB	12.		
	SECURITY SYSTEM DOOR CONTACT	DOOR JAMB			DOOR POSITION INTRUSION SWITCH	DOOR JAMB	12.		
	SECURITY SYSTEM GARAGE DOOR CONTACT	+96" OR AS NOTED	17.		ELECTRIC DOOR LOCK	DOOR JAMB	12.		
	DURESS PUSHBUTTON: T = TRANSMITTER, R = RECEIVER, H = HARDWIRED	AS NOTED	17.		ACCESS CONTROL SYSTEM, REQUEST TO EXIT		17.		
	INTRUSION MOTION DETECTOR SOLID - WALL MOUNTED, DASHED = CEILING		17.		ELECTRIC CRASH BAR	DOOR HARDWARE	12.		
	GLASS BREAK DETECTOR: SOLID = WALL MOUNTED, DASHED = CEILING		17.		ACCESS CONTROL CARD READER	+46"	2.		
	ALARM SIREN		17.		ACCESS CONTROL BIOMETRIC READER	+46"	2.		
	INTRUSION SYSTEM POP-IT		17.		KEY OVERRIDE SWITCH	+46"	2.		
	INTRUSION SYSTEM KEYPAD (ARM/DISARM)	+46"	2.		INTEGRATED CARD READER AND LOCK	+46"	2.		
	INTERCOM STATION	+46"	2.		KEYPAD CARD READER COMBO	+46"	2.		
	MAGNETIC LOCK				MOMENTARY PUSH BUTTON: DR = DOOR RELEASE, LD = LOCKDOWN, PTE = PUSH TO EXIT	AS NOTED	9.		
					SECURITY RELAY				

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SECURITY GENERAL NOTES

- PRIOR TO STARTING ANY WORK THE DIV 28 VIDEO SURVEILLANCE CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER AND THE DIV 26 ELECTRICAL CONTRACTOR TO REVIEW THE SURVEILLANCE CAMERA LOCATIONS AND ROUGH-IN. THE VIDEO SURVEILLANCE CONTRACTOR SHALL PROVIDE ALL OF THE CORRECT HARDWARE AND MOUNTING EQUIPMENT FOR THE IP SURVEILLANCE CAMERAS AND VIDEO EQUIPMENT. PRIOR TO STARTING ANY WORK CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER TO REVIEW AND VERIFY:
 - EACH SURVEILLANCE CAMERA LOCATION, HEIGHT, ORIENTATION, AND VIEW.
 - VERIFY WHICH EFIERTR ROOM AND COMMUNICATION EQUIPMENT RACK THE VIDEO SURVEILLANCE EQUIPMENT WILL INSTALL INTO.
- PRIOR TO STARTING ANY WORK THE DIV 28 ACCESS CONTROL CONTRACTOR SHALL COORDINATE A MEETING WITH THE OWNER, THE DIV 8 DOOR HARDWARE CONTRACTOR, AND THE DIV 26 ELECTRICAL CONTRACTOR TO REVIEW THE DOOR HARDWARE SPECIFICATIONS AND DOOR ROUGH-IN.
 - VERIFY WHAT ELECTRIFIED DOOR HARDWARE IS GOING TO GET INSTALLED ONTO EACH DOOR.
 - THE POWER REQUIREMENTS FOR ALL OF THE ELECTRIFIED HARDWARE.
 - DISCUSS HOW EACH DOOR WILL NEED TO BE PROGRAMMED TO OPERATE, COORDINATE FAIL-SAFE OR FAIL-SECURE OPERATION, AND FIRE ALARM INTERFACE.
 - VERIFY WHICH AREA IN THE EFIERTR ROOM IS TO BE UTILIZED TO INSTALL THE ACCESS CONTROL HEADEND CONTROL PANEL(S) AND THE ELECTRIFIED DOOR HARDWARE POWER SUPPLIES.
 - CONFIRM WHICH CURCUIT THE HEAD-END CONTROL PANELS AND POWER SUPPLIES SHOULD BE CURCUITED TO (EMERGENCY POWER OR A STANDARD CURCUIT).
- PROVIDE ALL SPECIFIED AND NON-SPECIFIED COMPONENTS IN ORDER TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- SECURITY INTEGRATOR SHALL CAREFULLY REVIEW THE REFLECTED CEILING PLANS AND ARCHITECTURAL ELEVATIONS FOR COMPONENT INSTALLATION.
- SECURITY INTEGRATOR SHALL CAREFULLY REVIEW DOOR HARDWARE SUBMITTAL AND SUMMARIZE DISCREPANCIES TO TEAM.
- EQUIPMENT COUNTS ARE PROVIDED FOR INFORMATION ONLY AT A CONVENIENCE TO THE CONTRACTOR. IT STILL REMAINS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY DRAWING QUANTITIES. IF A DISCREPANCY ARISES BETWEEN THE SCHEDULE COUNTS AND THE DRAWING COUNTS, THE HIGHEST QUANTITY SHALL BE INCLUDED IN THE BID.
- ACCESS CONTROL SYSTEM SHALL INCLUDE ANY RELAYS, EXTERNAL POWER SUPPLIES, AUXILIARY DEVICES OR INPUT/OUTPUT MODULES REQUIRED TO SUPPORT DOOR TYPE INDICATED FOR COMPLETE AND FUNCTIONING CARD READER AND DOOR CONTROL.
- ALL FINAL CAMERA VIEWS SHALL BE APPROVED BY THE OWNER PRIOR TO PROJECT COMPLETION.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- REFER TO SPECIFICATIONS FOR INTEGRATION BETWEEN VIDEO MANAGEMENT, ACCESS CONTROL, FIRE ALARM SYSTEMS, ETC.
- PROVIDE INTERACTIVE MAP ON VMS WITH CAMERA AND ACCESS CONTROL DEVICES.
- COORDINATE WITH ELECTRICAL CONTRACTOR AND OWNERS AND REVIEW WHAT ELECTRICAL CIRCUITS THE ACTIVE ACCESS CONTROL & VIDEO SURVEILLANCE EQUIPMENT WILL NEED TO BE CONNECTED TO. (I.E. EMERGENCY BACK-UP POWER CIRCUITS, OR STANDARD/DIRTY POWER CIRCUITS).
- INSTALL AND PROGRAM THE ACCESS CONTROL AND THE IP VIDEO SURVEILLANCE SYSTEMS TO THE MANUFACTURER'S INSTRUCTIONS, SPECIFICATIONS, INDUSTRIES STANDARDS, AND TO THE OWNER'S REQUIREMENTS.
- CONTRACTOR(S) SHALL PROMPTLY NOTIFY ENGINEER PRIOR TO INSTALLATION OF WORK IF ANY OF THE SECURITY DEVICE LOCATIONS THAT ARE SHOWN IN THE SECURITY DRAWINGS ARE OBSTRUCTED.

LIGHT FIXTURE SCHEDULE

LIGHT FIXTURE ABBREVIATION SCHEDULE				PROJECT MANAGER: NATHAN PARKER						
A.F.F. WALL@CLG CCBA	ABOVE FINISH FLOOR WALL MOUNT AT CORNER OF WALL AND CEILING CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	SCBA CFBA SFBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT CUSTOM FINISH AS SELECTED BY THE ARCHITECT 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 DISCREPENCIES 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 FIXTURE 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	
OP1	MEDIUM ARCHITECTURAL AREA LED SITE LUMINAIRE; DIE-CAST & EXTRUDED ALUMINUM HOUSING; TYPE III DISTRIBUTION, FULL CUTOFF; IP65 RATED; DIMMING/DOWN/DUSK MOTION/DAYLIGHT SENSOR, FIELD PROGRAMMABLE OUTPUT BASED ON MOTION, PROGRAMMED PER OWNERS REQUIREMENTS; 100,000 HOUR (L70), 5 YR. WARRANTY, MOUNTED ON A 25" ROUND TAPERED ALUMINUM POLE w/VIBRATION DAMPENING, MAX EPA 5.4 @ 120; LIFETIME WARRANTY ON POLE; SINGLE HEAD LUMINAIRE MOUNTING; SCBA, 3' CONCRETE POLE BASE	LITHONIA	DSX2-P1-40K-70-T3M-MVOLT-RPA-PIRH-HS(SEE PLANS)-SCBA/CPA-2-8025-25-D1-VD-SCBA	120 V	185 VA	LED	16,000	4000 K	80	
OW1P	ARCHITECTURAL WALL MOUNTED LED SITE LUMINAIRE; DIE-CAST & EXTRUDED ALUMINUM HOUSING; TYPE III DISTRIBUTION, FULL CUTOFF; IP65 RATED, 100,000 HOUR (L88), 5 YR. WARRANTY; 0-10 DIMMING; SCBA, PHOTOCELL	LITHONIA	DSXW1-LED-20C-700-40K-T3M-MVOLT-SCBA-PC	120 V	26 VA	LED	2,757	4000 K	70+	
SL2C	4' LED CHAIN MOUNTED LINEAR STRIPLIGHT; RUGGED ENCLOSED FULLY FROSTED ACRYLIC LENS; 303,000 HOUR (L70), 5 YR. WARRANTY; 0-10 DIMMING; DLC PREMIUM LISTED	METALUX	4SNLED-LDS-54HL-LW-UNV-L840-CD1-U-ATC-CHAIN/SET	120 V	40 VA	LED	5,400	4000 K	80+	

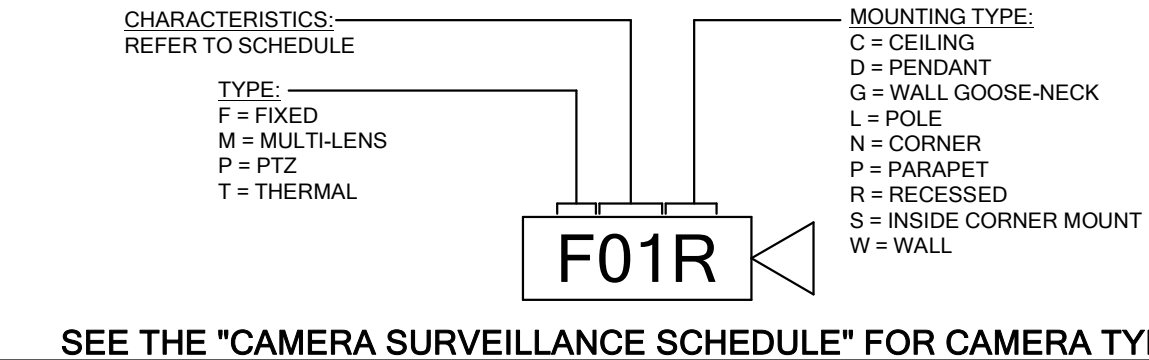
EQUIPMENT SCHEDULE

CONNECTION TYPE NOTES:										RESPONSIBILITY LEGEND:									
1. NON-FUSED DISCONNECT SWITCH 2. FUSED DISCONNECT SWITCH 3. BREAKER IN ENCLOSURE 4. MANUAL STARTER WITH THERMAL OVERLOAD 5. MAGNETIC STARTER 6. MAGNETIC STARTER/NON-FUSED DISCONNECT COMBINATION 7. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION 8. MAGNETIC STARTER/BREAKER COMBINATION 9. VARIABLE FREQUENCY DRIVE 10. REDUCED VOLTAGE STARTER 11. DIRECT CONNECTION 12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC. 13. TWO-SPEED STARTER, COORDINATE WITH MOTOR TYPE 14. SOLID STATE SOFT-STARTER										A. FURNISHED, INSTALLED AND CONNECTED UNDER DIVISION 26(16) B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION. REQUIRED CONNECTION UNDER DIVISION 26(16) C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 26(16) D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION									
										CB = CIRCUIT BREAKER									
										NOTE 1: PER 250.122(A), EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN THE PHASE CONDUCTOR NOTE 2: OVERCURRENT PROTECTION DEVICE (OCPD) SHOWN IS LOCATED AT POWER PANEL. ALL FUSING TO BE SIZED IN ACCORDANCE WITH FUSE MFR RECOMMENDATION FOR MOTOR NAME PLATE RATING. NOTE 3: ALL EQUIPMENT TO BE RATED FOR THE ENVIRONMENT FOR WHICH IT IS INSTALLED.									
UNIT	#	DESCRIPTION	ELECTRICAL EQUIPMENT INFORMATION						CONDUIT SIZE	WIRE			OCPD		STARTER/ DISC/ VFD OTHER (SEE NOTES)	REMARKS			
			LOAD							SETS	QTY	SIZE	EQ. GROUND	TYPE			AMPS		
			HP	FLA	MCA	VA	VOLTAGE	PHASE	FULL LOAD AMPS										
FD	1	FUEL DISPENSER	0.00	0 A	8 A	0 VA	120 V	1	6.4 A	3/4"	1	2	12	12	CB	15 A	11 A		
FD	1	FUEL DISPENSER	0.00	0 A	8 A	0 VA	120 V	1	6.4 A	3/4"	1	2	12	12	CB	15 A	11 A		
FD	1	FUEL DISPENSER	0.00	0 A	8 A	0 VA	120 V	1	6.4 A	3/4"	1	2	12	12	CB	15 A	11 A		
FD	1	FUEL DISPENSER	0.00	0 A	8 A	0 VA	120 V	1	6.4 A	3/4"	1	2	12	12	CB	15 A	11 A		
FD	1	FUEL DISPENSER	0.00	0 A	8 A	0 VA	120 V	1	6.4 A	3/4"	1	2	12	12	CB	15 A	11 A		
POS	1	FUEL DISPENSER	0.00	0 A	8 A	0 VA	120 V	1	6.4 A	3/4"	1	2	12	12	CB	15 A	11 A		
POS	1	FUEL DISPENSER	0.00	0 A	8 A	0 VA	120 V	1	6.4 A	3/4"	1	2	12	12	CB	15 A	11 A		
SP	1	FUEL DISPENSER	0.00	3.6 A	0 A	0 VA	208 V	1	3.6 A	3/4"	1	2	12	12	CB	15 A	11 A		
SP	2	FUEL DISPENSER	0.00	3.6 A	0 A	0 VA	208 V	1	3.6 A	3/4"	1	2	12	12	CB	15 A	11 A		

CAMERA SURVEILLANCE TYPE SCHEDULE

TYPE	DESCRIPTION	MANFR.	CAT NO.	NOTES
F01L	DAY/NIGHT DOME CAMERA-POLE MOUNT	AXIS	P3265-LVE / 02333-001	REFER TO SECURITY GENERAL SHEET NOTES #1

CAMERA SURVEILLANCE TAG LEGEND



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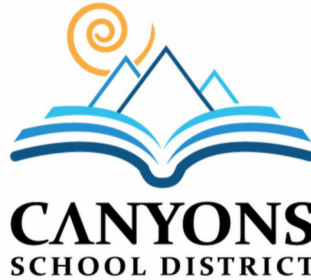
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PROJECT TITLE AND ADDRESS

CSD TRANSPORTATION
FUEL STATION
RELOCATION

200 EAST 9300 SOUTH
SANDY UTAH 84070

REVISIONS

Δ	DESCRIPTION	DATE

PROJECT INFORMATION

DATE: 29 MARCH 2024
PROJECT #: 23-089
DRAWN BY: BNA
PM / PA: NP/DB

DRAWING SET STATUS

BID DOCUMENTS

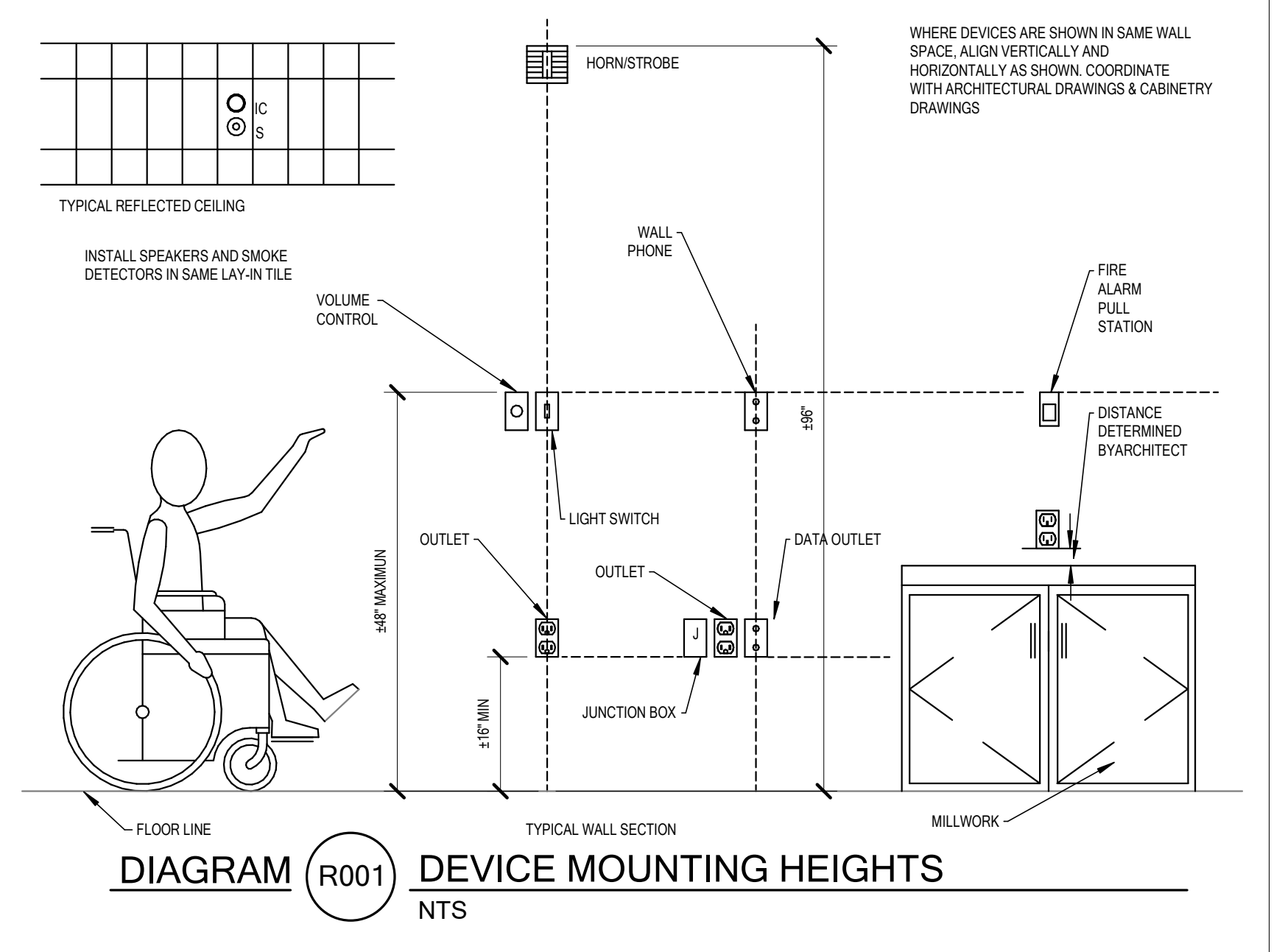
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SHEET TITLE

ELECTRICAL SCHEDULES

SHEET NUMBER

E002



PROJECT TITLE AND ADDRESS

[illegible]

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X1	DIV. 26 TO REMOVE AND REPLACE THE EXISTING EXTERIOR FUSED DISCONNECT WITH NEW NEMA 3R FUSED DISCONNECT AS SHOWN. DIV. 26 TO INTERCEPT AND EXTEND EXISTING CONDUCTORS THROUGH NEW DISCONNECT TO NEW PANEL 'P'.
X2	PROVIDE SHUNT TRIP MAIN CIRCUIT BREAKER. EXTERIOR MOUNTED EPO TO TRIP MAIN CIRCUIT BREAKER.

NOTES:

1. IN PANEL RUNS SIZE GND. COND. IN ACCORDANCE WITH NEC PARA. 250-122.

GND. CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS

* 200% NEUTRAL, DERATED TO 80% BASED ON NEC 310.15.B(5)(C)

** COPPER CONDUCTOR (X#H#W)

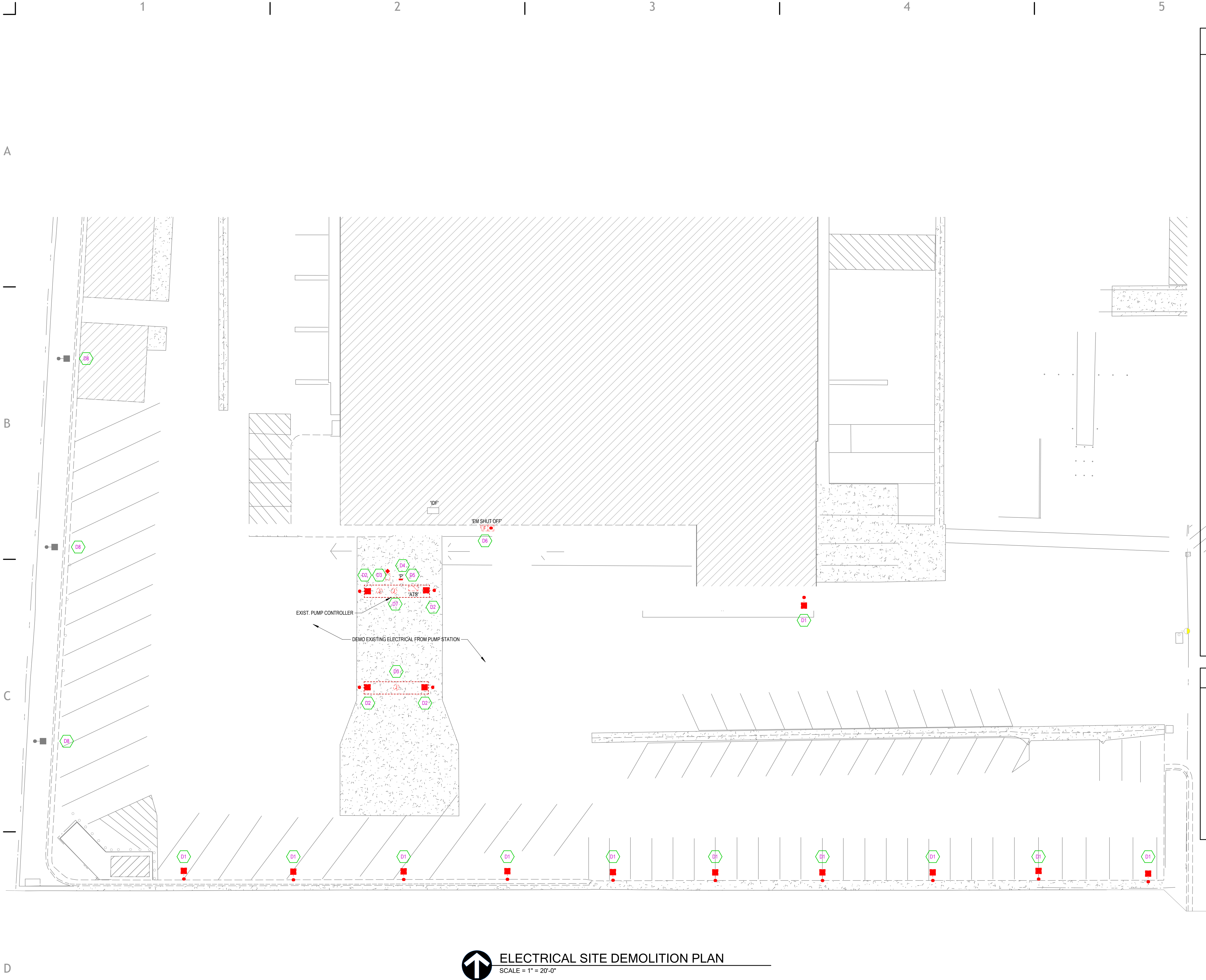
PROVIDE COMPACT STRANDED ALUMINUM ASSOCIATION 8000 SERIES ALLOY CONDUCTORS.

PROVIDE TERMINATION FOR ALUMINUM ALLOY CONDUCTORS OF HYDRAULIC COMPRESSOR TYPE ONLY, LISTED UNDER UL 486-B, MARKED "ALLOY" FOR 75 DEGREE RATED CIRCUITS.

PROVIDE ALL ELECTRICAL EQUIPMENT WITH PROPER SIZING TO ACCOMMODATE ALUMINUM CONDUCTORS. COORDINATE WITH EQUIPMENT SUPPLIER.



Autodesk Docs / /23-089 CSD Transportation Fuel Station Relocation/23302 - CSD Transportation Center - Fuel Station Relocation - ELEC V22.rvt
3/29/2024 1:28:02 PM



 **ELECTRICAL SITE DEMOLITION PLAN**
SCALE = 1" = 20'-0"

DEMOLITION GENERAL NOTES

- DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRIC CONTINUITY TO AND PROTECT BRANCH CIRCUITS AND/OR FEEDERS PASSING THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELLED AREA AND OUTSIDE OF A REMODELLED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELLED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELLED AREA.
- DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRY WALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
- 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.
- FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
- WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER.
- 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 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.
- FULLY COORDINATE FUEL PUMP AND STATE FUEL L EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE FUEL PUMP CONTRACTOR. REFER TO ARCHITECTURAL AND CIVIL DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH GENERAL, HEAD CUSTODIAN, AND OWNER.
- VERIFY ALL EQUIPMENT LOCATIONS ON AND OFF THE SITE NECESSARY FOR SERVICE CONNECTION.
- 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

- | | |
|----|---|
| D1 | EXISTING LIGHT FIXTURE HEAD TO BE REMOVED AND RETURNED TO OWNER. COORDINATE WITH OWNER FOR REMOVAL OF EXISTING ROCKY MOUNTAIN POWER LIGHT POLES. OWNER TO COORDINATE WITH ROCKY MOUNTAIN POWER. |
| D2 | REMOVE EXISTING LIGHT FIXTURE. REMOVE ASSOCIATED CONDUIT AND WIRE BACK TP PANEL. |
| D3 | REMOVE EXISTING FUEL DISPENSER CONNECTION. REMOVE ASSOCIATED CONDUIT AND WIRE BACK TO PANEL "P". |
| D4 | REMOVE EXISTING ELECTRICAL PANEL "P" AND EXISTING CIRCUITS. PANEL "P" TO BE REMOVED, REPLACED, AND RELOCATED TO BUILDING EXTERIOR FOR NEW FUEL PUMP POWER. SEE ELECTRICAL SITE PLAN FOR NEW LOCATION. REFEED PANEL "P" FROM FUSED DISCONNECT AT NEW LOCATION. |
| D5 | REMOVE EXISTING ATS AND RETURN TO OWNER. |
| D6 | REMOVE AND REPLACE EXISTING FUSED DISCONNECT. REFEED CONDUIT AND WIRE FROM DISTRIBUTION PANEL. |
| D7 | INTERCEPT EXISTING ANALOG COMMUNICATION LINE AND CONDUIT AND EXTEND TO NEW ELECTRICAL SHED. SEE SHEET E111 FOR NEW SHED LOCATION. |
| D8 | EXISTING LIGHT POLE AND FIXTURE TO REMAIN. PROTECT CONDUIT AND WIRE DURING CONSTRUCTION. |



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CONSULTANT INFORMATION



PROJECT TITLE AND ADDRESS

**CSD TRANSPORTATION
FUEL STATION
RELOCATION**

200 EAST 9300 SOUTH
SANDY UTAH 84070

REVISIONS

Δ	DESCRIPTION	DATE

PROJECT INFORMATION

DATE: 29 MARCH 2024
PROJECT #: 23-089
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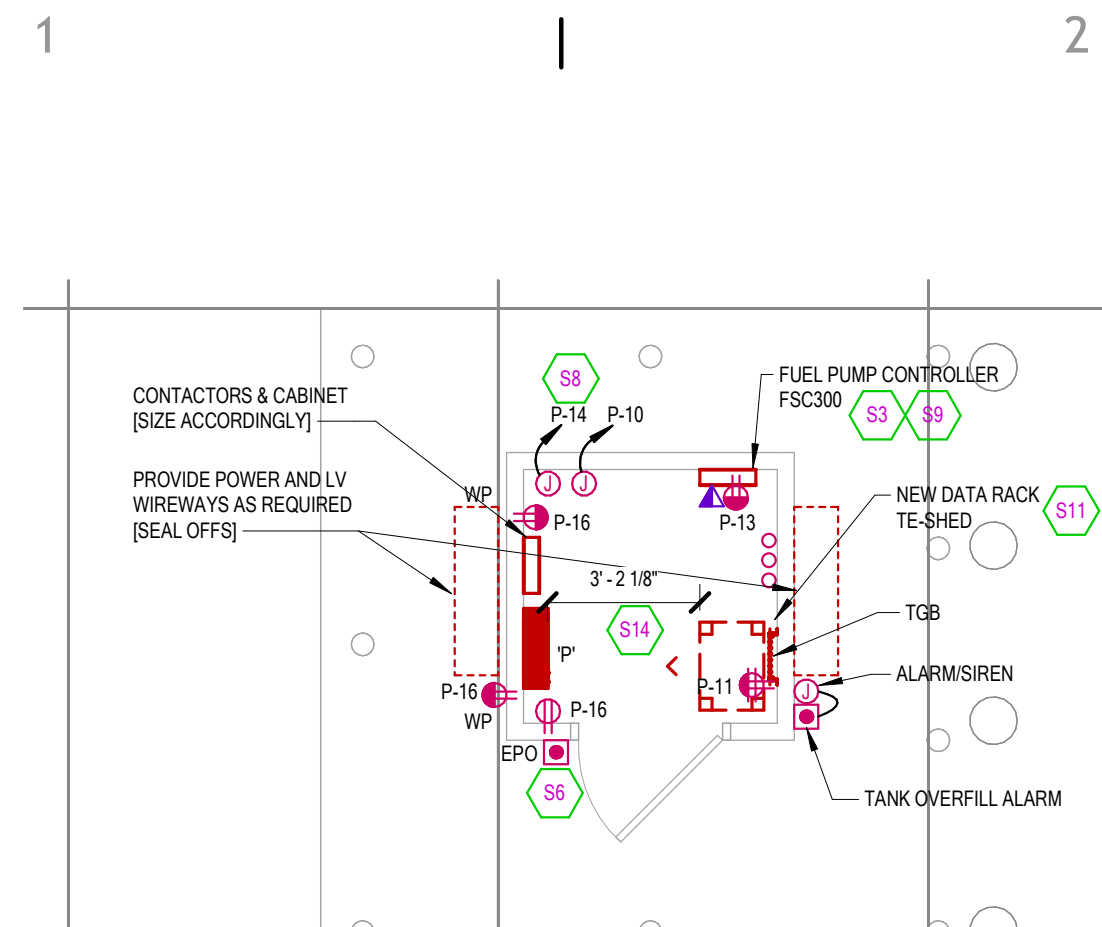
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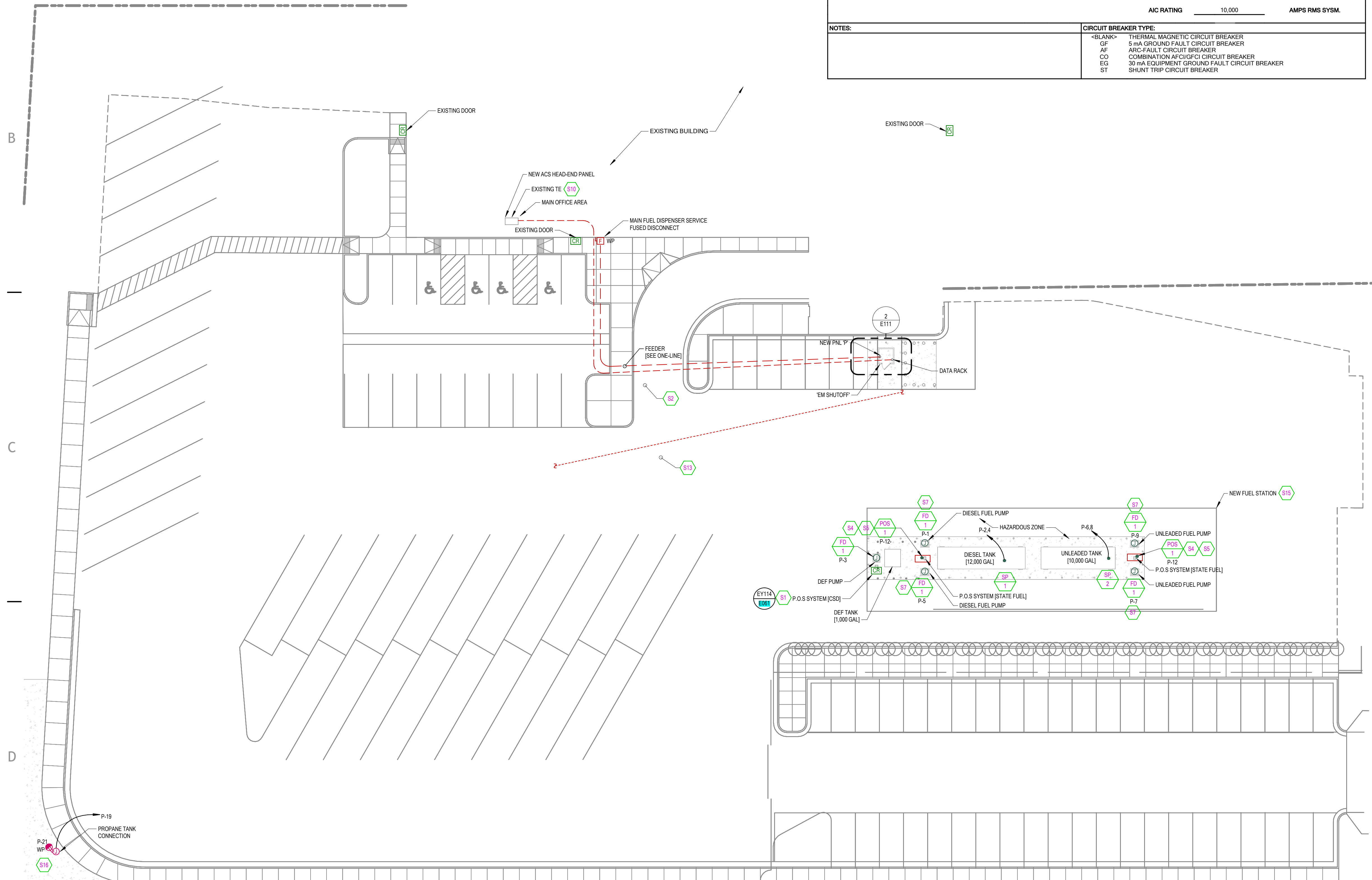
**ELECTRICAL
DEMOLITION
SITE PLAN**

SHEET NUMBER

ED111



2 CUSTODIAL SHED ELECTRICAL PLAN
SCALE = 1/4" = 1'-0"



PANELBOARD SCHEDULE

PANEL: P

TYPE: Type 1

VOLTS: 120/208 Y

PHASE: 3

WIRES: 4

MOUNTING: SURFACE

BUSSING: ALUMINUM

LOCATION:

FED FROM:

AMP: 125 A

MAINS: MCB

SUBFEED LUGS

DOOR-IN-DOOR

ISO GROUND

200% NEUTRAL

SPD

BRANCH BREAKERS																	
ITEM	AMPS	TYPE	POLE	WIRE SIZE	CIR. NO.	A	B	C	A	B	C	CIR. NO.	WIRE SIZE	POLE	TYPE	AMPS	ITEM
FD-1, FUEL DISPENSER	15 A	GF	1	12	1	768			374			2	12	2	GF	15 A	SP-1, FUEL DISPENSER
FD-1, FUEL DISPENSER	15 A	GF	1	12	3		768			374		4	--	--	--	--	--
FD-1, FUEL DISPENSER	15 A	GF	1	12	5			768			374	6	12	2	GF	15 A	SP-2, FUEL DISPENSER
FD-1, FUEL DISPENSER	15 A	GF	1	12	7	768			374			8	--	--	--	--	--
FD-1, FUEL DISPENSER	15 A	GF	1	12	9		768			750		10	12	1	GF	20 A	TANK MONITORING SYSTEM
RECEPT	20 A	1	12	11				360			1536	12	12	1		15 A	POS-1, FUEL DISPENSER
RECEPT	20 A	1	12	13	180				250			14	12	1	EG	20 A	HEAT TRACE TEMP SENSOR
LIGHTING	20 A	1	6	15			1295			812		16	12	1		20 A	SHED LIGHTING AND OUTLETS
OSP CABLING	20 A	1	6	17				0			925	18	4	1		20 A	LIGHTING
PROPAN TANK	20 A	1	4	19	1200				66			20	12	1		20 A	LIGHTING
RECEPT	20 A	1	4	21		180				0		22	--	1	--	20 A	SPARE
SPARE	20 A	--	1	--	23			0			0	24	--	1	--	20 A	SPARE
SPARE	20 A	--	1	--	25	0			0			26	--	1	--	20 A	SPARE
SPARE	20 A	--	1	--	27		0			0		28	--	1	--	20 A	SPARE
SPARE	20 A	--	1	--	29			0			0	30	--	1	--	20 A	SPARE
FEED THRU LOAD										TOTAL (VA)				CONNECTED LOAD TOTAL			
0 VA										33 A 41 A 33 A				12892 VA			
										AMPS/HASSE							
										AIC RATING				10.000			
														AMPS RMS SYSM.			
NOTES:										CIRCUIT BREAKER TYPE:							
										<BLANK> THERMAL MAGNETIC CIRCUIT BREAKER GF 5 mA GROUND FAULT CIRCUIT BREAKER AF ARC-FAULT CIRCUIT BREAKER CO COMBINATION AFCI/GFCI CIRCUIT BREAKER EG 30 mA EQUIPMENT GROUND FAULT CIRCUIT BREAKER ST SHUNT TRIP CIRCUIT BREAKER							

SHEET KEYNOTES

- S1 PROVIDE (1) 1-1/2" CONDUIT FROM ELECTRICAL SHED BACK TO BUILDING IDF FOR DEF PUMP ACS CABLE. PROVIDE (1) 1-1/4" CONDUIT FROM SHED TO ACCESS CONTROL PEDESTAL (SEE DIAGRAM EY114#609).
- S2 PROVIDE ALL OF THE NECESSARY CABLING AND EQUIPMENT TO TIE THESE SYSTEMS TOGETHER. INSTALL REQUIREMENTS TO THE MANUFACTURER'S SPECIFICATIONS, WRITTEN INSTRUCTIONS, AND TO THE OWNERS REQUIREMENTS.
- S3 PROVIDE (4) 2" CONDUITS FROM FUEL DISPENSER CONTROLLER TO COMMUNICATIONS ROOM. WITHIN THE GROUP OF (4) CONDUITS, PROVIDE (1) 6-STRAND SINGLE MODE FIBER IN ONE CONDUIT AND A PULL STRING IN THE REMAINING (3) CONDUITS.
- S4 RUN A 1" CONDUIT FROM PETRO-VEND #K8000 CONTROLLER TO FUEL ISLAND CARD READER/TERMINAL FOR PETRO-NET CONNECTION. PROVIDE WIRING AS RECOMMENDED BY THE MANUFACTURER. REFER TO PETRO-VEND INSTALLATION INSTRUCTION FOR ADDITIONAL INFORMATION.
- S5 NEW CARD READER/TERMINAL. UTAH STATE FUEL NETWORK STANDARD PETRO-VEND #K800. PROVIDE A 3/4" CONDUIT WITH #14 AWG CU CONTROL WIRE. LOOP CONTROL WIRE BETWEEN FUEL DISPENSERS AND CARD READER/CONTROLLER.
- S6 RUN A 3/4" CONDUIT WITH #14 AWG CU CONTROL WIRE. LOOP CONTROL WIRE BETWEEN FUEL DISPENSERS AND CARD READER/CONTROLLER.
- S7 EMERGENCY PUSH BUTTON FOR FUEL PUMP SHUTOFF WITH PROTECTIVE NEMA 3R COVER. MUST BE LOCATED NO MORE THAN 100' FROM THE FARTHEST FUEL DISPENSING DEVICE.
- S8 RUN CIRCUIT THROUGH PETRO-VEND RELAY BOX LOCATED AT FUEL ISLAND NEAR FUEL DISPENSERS. RUN A 1" CONDUIT BETWEEN RELAY BOX TO CARD READER/TERMINAL. REFER TO PETRO-VEND INSTALLATION INSTRUCTION FOR ADDITIONAL INFORMATION.
- S9 PROVIDE HEAT TRACE CONTACTOR PANEL HEATIZON CAT. #M530-2(OR APPROVED EQUIVALENT). RUN HEAT TRACE CIRCUITS THROUGH PANEL.
- S10 FSC3000 FUEL PUMP CONTROLLER. FIELD VERIFY LOCATION PRIOR TO ROUGH-IN. LOCATE 120V GFCI DUPLEX AND A 2 DROP DATA OUTLET WITHIN 3' OF CONTROLLER.
- S11 APPROXIMATE LOCATION OF EXISTING IDF. CONTRACTOR TO FIELD VERIFY ROUTING OF NEW CONDUIT THROUGH THE BUILDING BEFORE TRANSITIONING UNDERGROUND AT THE EXTERIOR OF THE BUILDING. CONTRACTOR TO PAINT SURFACE MOUNTED CONDUIT TO MATCH WALL.
- S12 LOCATE 12RU WALL MOUNT PANDUIT PZWC12W DATA RACK WITHIN CUSTODIAL SHED. EXTEND FIBER FROM EXISTING IDF TO NEW RACK. REFER TO NOTE S2 FOR ADDITIONAL REQUIREMENTS. STUB AND CAP REMAINING CONDUITS WITH PULLSTRING ADJACENT TO DATA RACK. LABEL "FUTURE USE".
- S13 INTERCEPT AND EXTEND ANALOG COMMUNICATION LINE AND CONDUIT TO NEW ELECTRICAL SHED. REFER TO NOTE D#7111 FOR ADDITIONAL INFORMATION.
- S14 DIVISION 26 TO VERIFY EQUIPMENT AND DEVICE LOCATIONS THROUGHOUT THE SHED WITH ARCHITECT, FUEL STATION CONTRACTOR, AND OWNER PRIOR TO ROUGH-IN. MAKE ADJUSTMENTS TO LOCATIONS, HEIGHTS, AND UPDATE ELECTRICAL INFRASTRUCTURE AS REQUIRED.
- S15 DIVISION 26 IS RESPONSIBLE FOR SUPPLYING ALL REQUISITE POWER, PATHWAYS, INTERCONNECTIONS, AND TERMINATIONS FOR THE NEW FUEL STATION. COORDINATE EXACT LOCATION AND TERMINATION REQUIREMENTS WITH THE ARCHITECT, FUEL STATION CONTRACTOR, AND SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN. ENSURE THAT THE ELECTRICAL INFRASTRUCTURE IS UPDATED AS NEEDED.
- S16 DIVISION 26 IS RESPONSIBLE FOR SUPPLYING ALL REQUISITE POWER, PATHWAYS, INTERCONNECTIONS, AND TERMINATIONS FOR THE NEW PROPANE TANK. COORDINATE EXACT LOCATION AND TERMINATION REQUIREMENTS WITH THE ARCHITECT AND SHOP DRAWINGS PRIOR TO ELECTRICAL ROUGH-IN.

SITE GENERAL SHEET NOTES

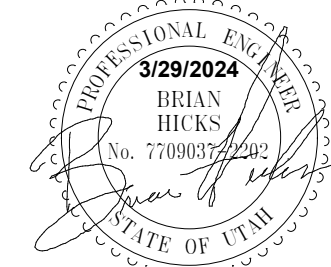
1. ENSURE ALL ELECTRICAL INSTALLATIONS WITHIN HAZARDOUS ZONES AS OUTLINED IN NEC 514-E AROUND DISPENSERS ARE IN COMPLIANCE WITH NEC 514. SEAL OFFERS MUST BE PROVIDED ON BOTH ENDS OF CONDUIT ENTERING/EXITING HAZARDOUS ZONES PER NEC REGULATIONS.
2. COORDINATE ALL SCOPES OF WORK WITH THE FUEL CONTRACTOR AND CORRESPONDING SHOP DRAWINGS TO ENSURE PROPER ELECTRICAL COORDINATION, PATHWAYS, AND TERMINATION. DIVISION 26 IS RESPONSIBLE FOR PROVIDING A FULLY FUNCTIONING AND COMPLETE ELECTRICAL INSTALLATION REQUIRED FOR THE FUEL STATION.
3. PROVIDE CONDUIT AND CABLING PER FUEL CONTRACTOR REQUIREMENTS.
4. PROVIDE CONDUIT AND CONDUCTORS TO THE DISPENSERS TO FUEL MASTER/MANAGEMENT SYSTEM PER FUEL CONTRACTOR REQUIREMENTS.



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PROJECT TITLE AND ADDRESS

CSD TRANSPORTATION FUEL STATION RELOCATION

200 EAST 9300 SOUTH

REVISIONS

[illegible]

PROJECT INFORMATION

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SHEET TITLE

ELECTRICAL SITE PLAN

SHEET NUMBER

E111

[BACK TO <](#)

1

2

3

4

5

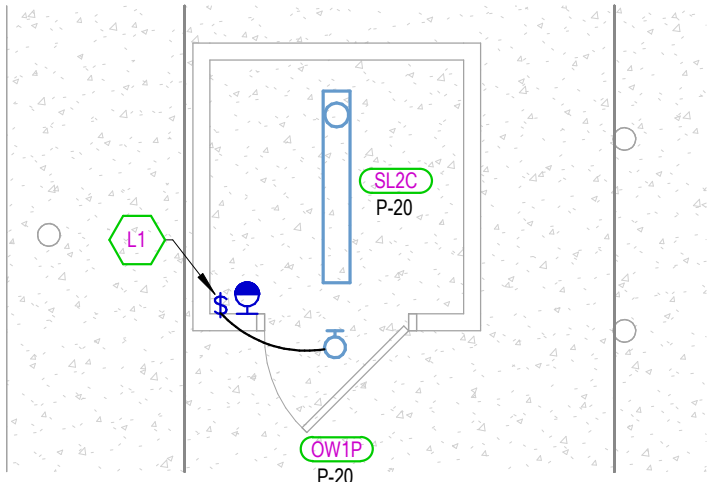
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A

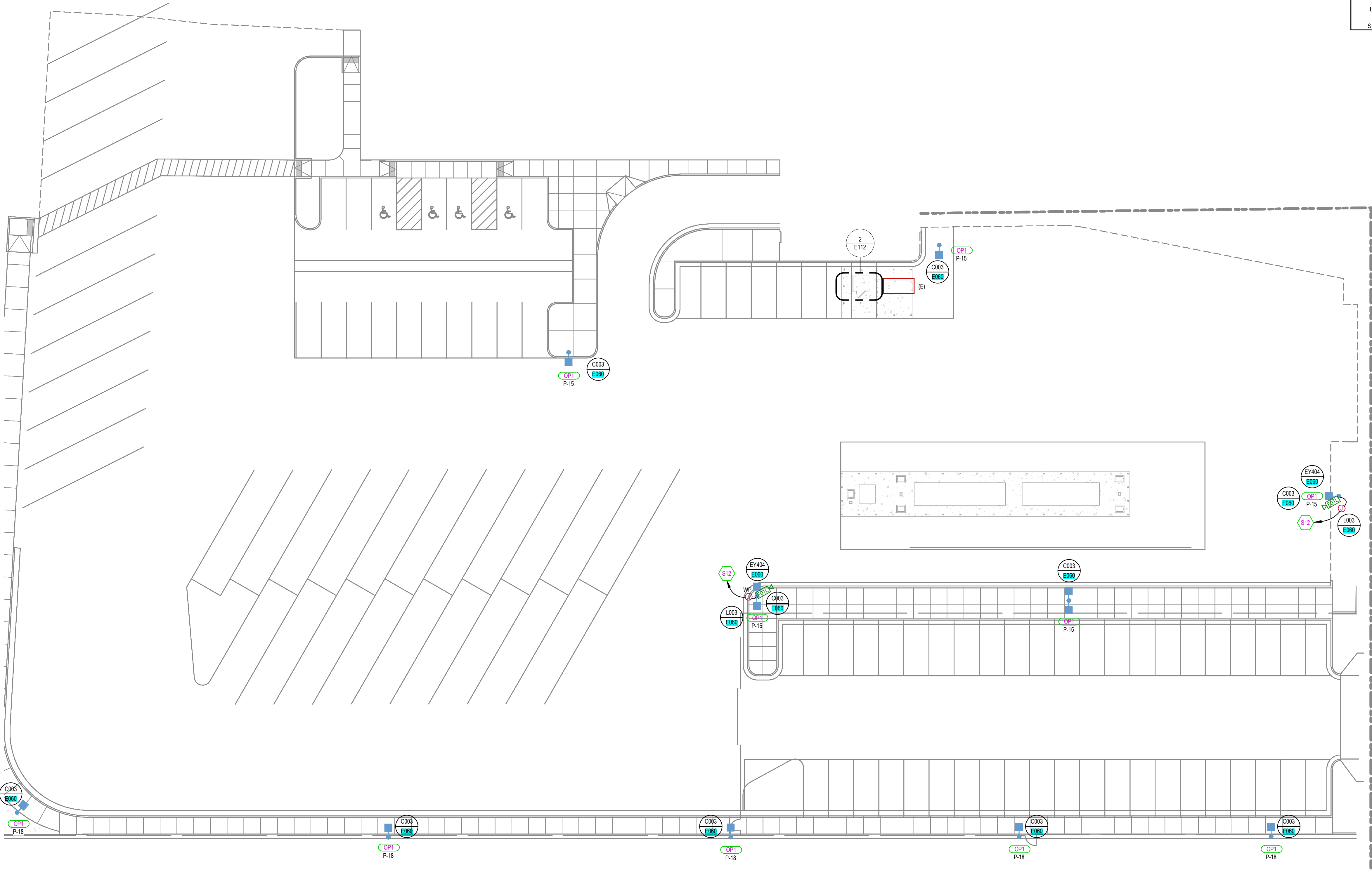
B

C

D



2 CUSTODIAL SHED LIGHTING PLAN
SCALE = 1/4" = 1'-0"



LIGHTING SITE PLAN
SCALE = 1" = 20'-0"

SITE LIGHTING GENERAL SHEET 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.
- 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 POLE ADDITIONAL INFORMATION.
- CONTRACTOR TO PROVIDE PULL BOXES AS REQUIRED PER NEC AND NECESSARY TO PROVIDE SUCCESSFUL CABLE PULLS.
- NEW SITE POLES WILL OPERATE VIA INTEGRAL PHOTOCELL (DUSK TO DAWN) AND DIMMING MOTION SENSOR. COORDINATE MOTION SENSOR TIME-OUT AND DIMMING THRESHOLD WITH OWNER AND PROGRAM ACCORDINGLY.

SHEET KEYNOTES

L1	PROVIDE LINE VOLTAGE SWITCH FOR MANUAL OVERRIDE OF EXTERIOR PHOTOCELL CONTROLLED FIXTURE.
S12	PROVIDE SPECIFIED OSP CAT6A CABLING FROM POLE MOUNTED CAMERA TO NEW DATA RACK TE-SHED.



233 SOUTH PLEASANT GROVE BLVD.
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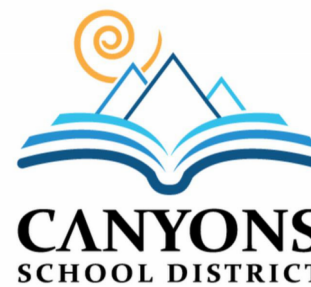
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PROFESSIONAL STAMP



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PROJECT TITLE AND ADDRESS
**CSD TRANSPORTATION
FUEL STATION
RELOCATION**
200 EAST 9300 SOUTH
SANDY UTAH 84070

REVISIONS

Δ DESCRIPTION	DATE

PROJECT INFORMATION

DATE: 29 MARCH 2024
PROJECT #: 23-089
DRAWN BY: BNA
PM / PA: NP/DB

DRAWING SET STATUS

BID DOCUMENTS

THIS DRAWING SET IS INTENDED
TO BE PRINTED IN COLOR

SHEET TITLE

LIGHTING SITE PLAN

SHEET NUMBER

E112