

LEGEND

PHASE 1 SILT FENCE	SF-1	SF-1
PHASE 2 SILT FENCE	SF-2	SF-2
INLET PROTECTION		

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

NOTES: The Land Disturbance Plans indicates the final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

Part Lots 2 and 3, Hamblen Plaza, Lots 1 thru 3 and
Part of the Northeast 1/4 of the Southeast 1/4 of
Section 8, Township 47 North, Range 31 West
Jackson County, Missouri

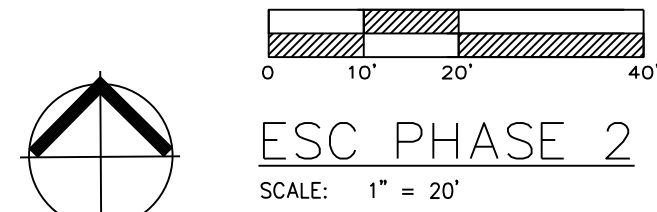
Project:
HOME DEPOT
C-STORE LSMO
Issue Date:
September 23, 2022

ESC PHASE 1 - Pre Clearing Plan
Construction Plans for:
HOME DEPOT C-STORE
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25526

REVISIONS
REV. 12/5/2022



SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE — SF-1 — SF-1

PHASE 2 SILT FENCE — SF-2 — SF-2

INLET PROTECTION —

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

NOTES: The Land Disturbance Plans indicates the final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

EROSION CONTROL DESCRIPTION:

1.) SILT FENCE SHALL BE PLACED AT THE PERIMETER OF THE GRADING AND AT INTERMEDIATE AREAS THROUGHOUT THE SITE AS SHOWN ON THE PLAN. INLET SEDIMENT TRAPS SHALL BE PLACED SURROUNDING ALL STORM INLETS

2.) INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN

EROSION CONTROL PROCEDURE:

1.) SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE PERIMETER OF THE GRADED AREAS PRIOR TO BEGINNING OF CLEARING OR DEMOLITION OPERATIONS. THE CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON PLANS AS GRADING PROGRESSES.

TEMPORARY CONSTRUCTION ENTRANCE NOTES:

A.) INSTALLATION

- 1.) AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC STREETS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED
- 2.) REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE AND CROWN FOR POSITIVE DRAINAGE
- 3.) IF SLOPE TOWARDS THE PUBLIC ROAD EXCEEDS 2% CONSTRUCT A 6 TO 8 INCH HIGH RIDGE WITH 3H: 1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.
- 4.) INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS
- 5.) PLACE STONE TO DIMENSIONS AND GRADES AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE
- 6.) DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE
- 7.) IF WET CONDITIONS ARE ANTICIPATED PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY

B.) TROUBLESHOOTING

- 1.) CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:
 - INADEQUATE RUNOFF CONTROLS TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROADS
 - INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES
 - SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL - INCREASE STONE SIZE THICKNESS OR ADD GEOTEXTILE FABRIC
 - PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC - EXTEND PAD BEYOND THE MINIMUM 50 FOOT LENGTH AS NECESSARY

C.) INSPECTION AND MAINTENANCE

- 1.) INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER ANY RAIN EVENT
- 2.) RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL
- 3.) TOP DRESS WITH CLEAN 2 AND 3 INCH STONE AS NEEDED
- 4.) IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADWAY. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY
- 5.) REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED

MAINTENANCE:

TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS, THE FOLLOWING PROCEDURES WILL BE PERFORMED:
SEDIMENT CAPTURE DEVICES: SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC FENCES, WHEN THE DEPTH OF ACCUMULATED SEDIMENT REACHES ABOUT ONE-THIRD THE HEIGHT OF THE STRUCTURE.
STORM SEWER INLETS: ANY SEDIMENT IN THE STORM SEWER INLETS WILL BE REMOVED AND DISPOSED OF PROPERLY.
TEMPORARY CONTROLS: ALL TEMPORARY CONTROLS WILL BE REMOVED AFTER THE DISTURBED AREAS HAVE BEEN STABILIZED.

INSPECTION PROCEDURES:

INSPECTIONS WILL BE DONE BY THE RESPONSIBLE PERSON(S) AT LEAST ONCE EVERY WEEK AND WITHIN 24 HOURS EACH STORM EVENT PRODUCING ANY AMOUNT OF RAINFALL. AREAS THAT HAVE BEEN RESEEDED WILL BE INSPECTED REGULARLY AFTER SEED GERMINATION TO ENSURE COMPLETE COVERAGE OF EXPOSED AREAS. DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED SHALL HAVE ALL POLLUTION CONTROL MEASURES INSPECTED FOR PROPER INSTALLATION, OPERATION AND MAINTENANCE. LOCATIONS WHERE STORM WATER LEAVES THE SITE SHALL BE INSPECTED FOR EVIDENCE OF EROSION OR SEDIMENT DEPOSITION. ANY DEFICIENCIES SHALL BE NOTED IN A REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE PERMITTEE SHALL PROMPTLY NOTIFY THE SITE CONTRACTORS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION CONTROL DEVICES OF DEFICIENCIES.

IF THE EXISTING GROUND COVER IS NATURAL GRASS, DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH WHEAT/RYE AT A RATE OF 1.5 POUNDS PER 1000 SQUARE FEET. PERMANENT SEEDED SHALL CONSIST OF 90% IN THREE EQUAL PARTS OF THIN BLADE, TURF-TYPE, TALL FESCUE AND 10% BLUEGRASS SEED AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET. BOTH TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED AND WATERED TO MAINTAIN THE PROPER MOISTURE LEVEL OF THE SOIL TO ESTABLISH GRASS. NEW GRASS SHALL BE WATERED AND MAINTAINED UNTIL IT REACHES A HEIGHT OF 3 INCHES. ANY BARE AREAS SHALL BE RESEEDED.

ALL EROSION CONTROL DEVICES SHALL BE REMOVED BY GENERAL CONTRACTOR AFTER SITE STABILIZATION IS COMPLETE AND APPROVED BY ENGINEER.

THE DEVELOPER WILL DESIGNATE A QUALIFIED PERSON OR PERSONS TO PERFORM THE FOLLOWING INSPECTIONS:

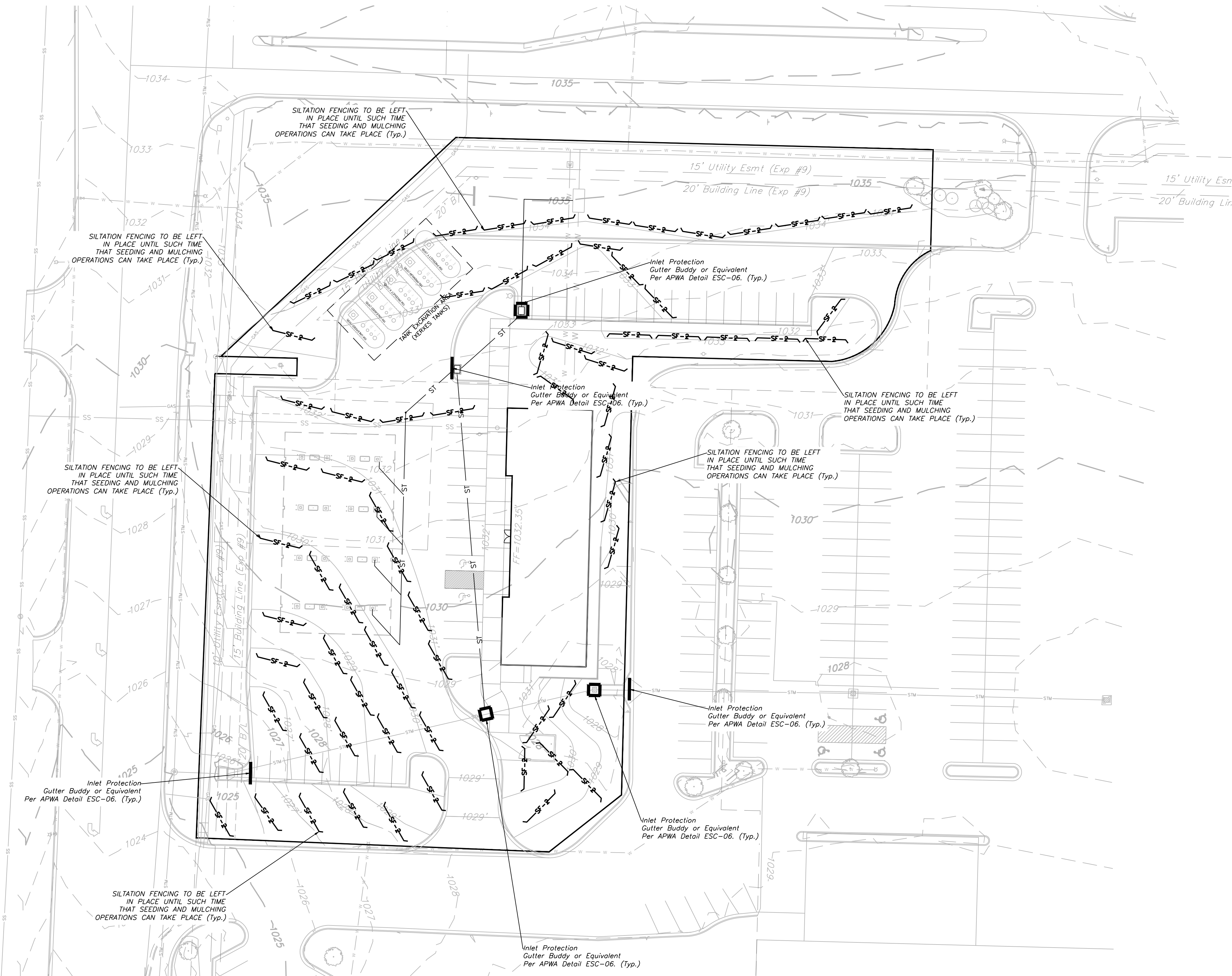
STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

STRUCTURAL CONTROLS: FILTER FABRIC FENCES AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN WILL BE INSPECTED REGULARLY FOR PROPER POSITIONING, ANCHORING, AND EFFECTIVENESS IN TRAPPING SEDIMENTS. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.

DISCHARGE POINTS: DISCHARGE POINTS OR LOCATIONS WILL BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT AMOUNTS OF POLLUTANTS FROM ENTERING RECEIVING WATERS.

CONSTRUCTION ENTRANCE: LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

A LOG OF EACH INSPECTION SHALL BE KEPT. THE INSPECTION REPORT IS TO INCLUDE THE FOLLOWING MINIMUM INFORMATION: INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS RELATIVE TO THE EFFECTIVENESS OF THE POLLUTION CONTROL DEVICES, ACTIONS TAKEN OR NECESSARY TO CORRECT DEFICIENCIES, AND LISTING OF AREAS WHERE LAND DISTURBANCE OPERATIONS HAVE PERMANENTLY OR TEMPORARILY STOPPED. THE INSPECTION REPORT SHALL BE SIGNED BY THE PERMITTEE OR BY THE PERSON PERFORMING THE INSPECTION IF DULY AUTHORIZED TO DO SO.



SEED AND MULCH NOTES:

All areas disturbed by construction activities shall be seeded and mulched. Seeding shall be done before the proposed seedbed becomes eroded, crusted over, or dried out and shall not be done when the ground is frozen, or covered with snow. The seed shall comply with the requirements of the Missouri Seed Law and the Federal Seed Act. Also, it shall contain no seed of any plant on the Federal Noxious Weed List. Other weed seeds shall not exceed one percent by weight of mix.

Seed and Fertilizer Rate:
Mix I - Rye Grass / Blue Grass -----
100 lbs. per Acre
Mix II - Tall Fescue / Blue Grass ----- 195
lbs. per Acre
Lime
lbs per Acre (50 lbs. per 1000 sq. ft.)
Fertilizer ----- 800
to 1200 lbs per Acre (25 lbs per 1000 sq. ft.)

During the dates December 15th through May 31 ALL lime, fertilizer, seed and mulch shall be applied to finished slopes of disturbed areas. During the months of June, July, October and November 1st through December 15th, lime, fertilizer, seed and mulch shall be applied at the following rates:
Lime - 100% of the specified quantity
Fertilizer - 75% of the specified quantity
Seed - 50% of the specified quantity
Mulch - 100% of the specified quantity

Mulch shall be vegetative type, cereal straw from stalks of oats, rye, or barley, or approved equal. The straw shall be free of prohibited weed seed and relatively free of all other noxious and undesirable seed. Mulch shall be applied at the rate of 2 tons per acre, (70 to 90 lbs per 1000 sq. ft.). Mulch shall be embedded by a mulch anchoring tool or disk type roller having flat serrated disks spaced not more than 10 inches apart and cleaning scrapers shall be provided.

ONCE SITE IS 90% VEGETATED ALL ESC DEVICES SHALL BE REMOVED AND ANY DISTURBED AREAS SHALL BE RESTORED

ESC PHASE FINAL

SCALE: 1" = 20'

SILT FENCE PROTECTION
TO BE MAINTAINED BY CONTRACTOR

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PHASE 1 SILT FENCE ———— SF-1 ———— SF-1 ————

PHASE 2 SILT FENCE ———— SF-2 ———— SF-2 ————

INLET PROTECTION ————

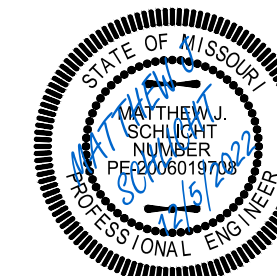
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Jackson County, Missouri

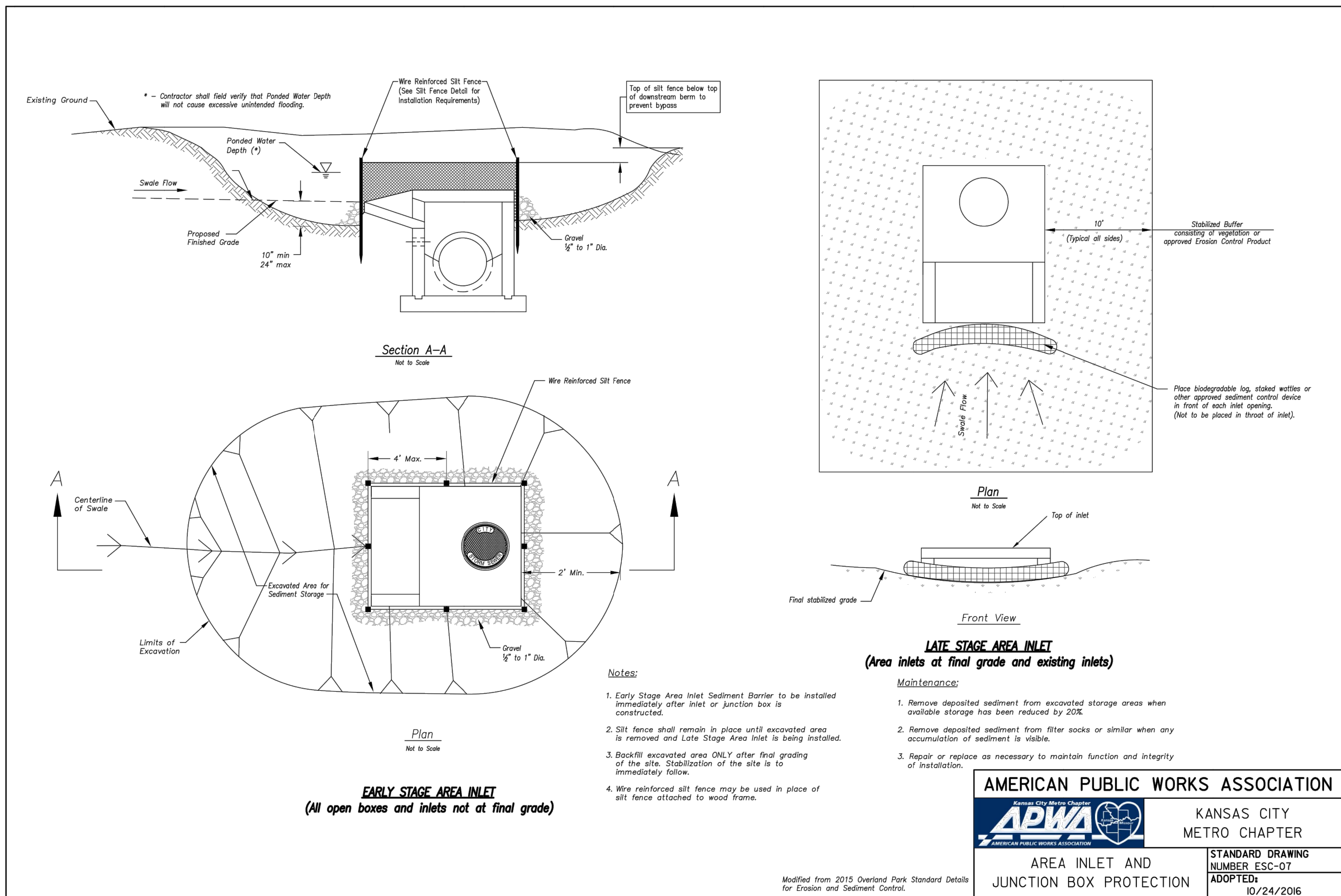
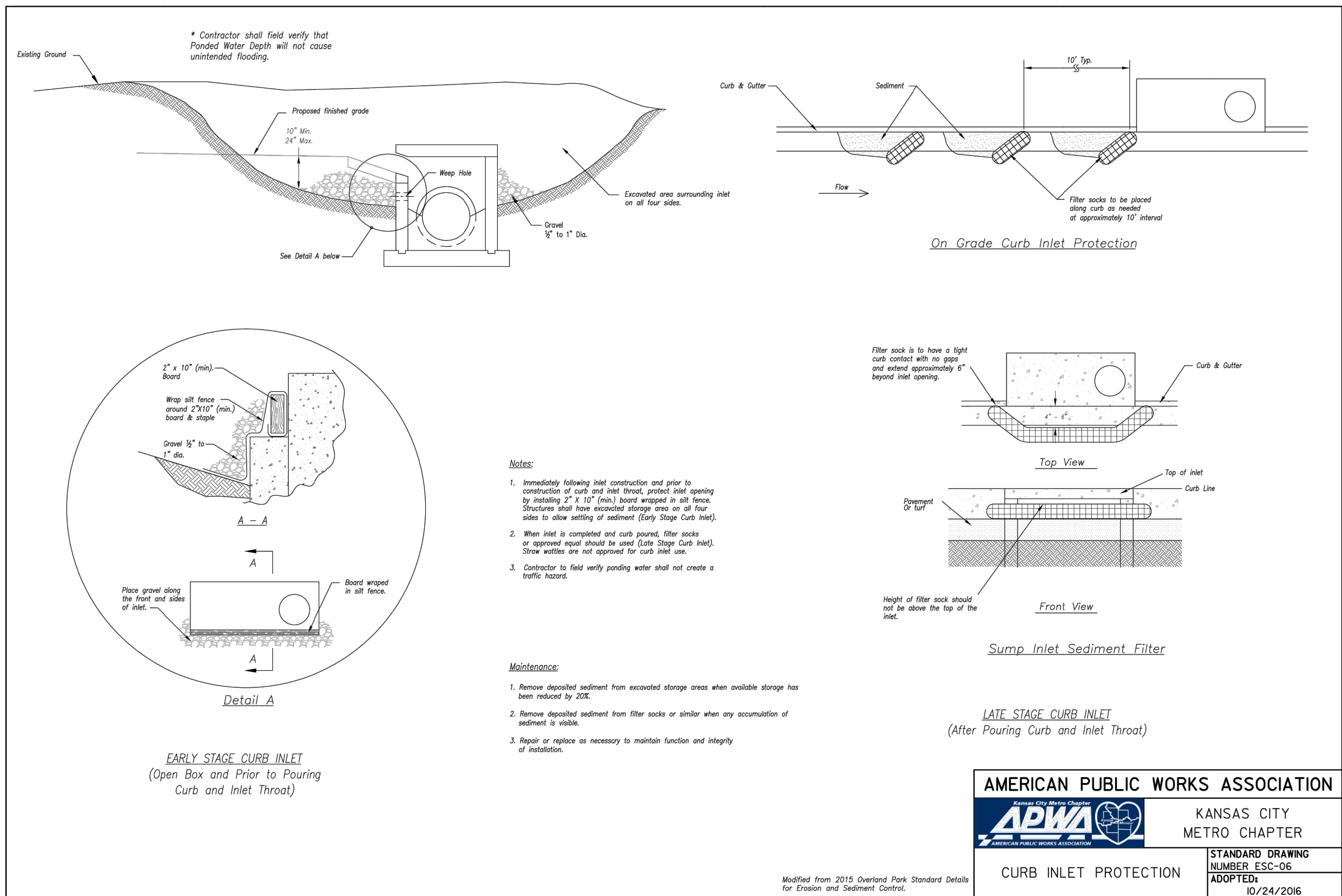
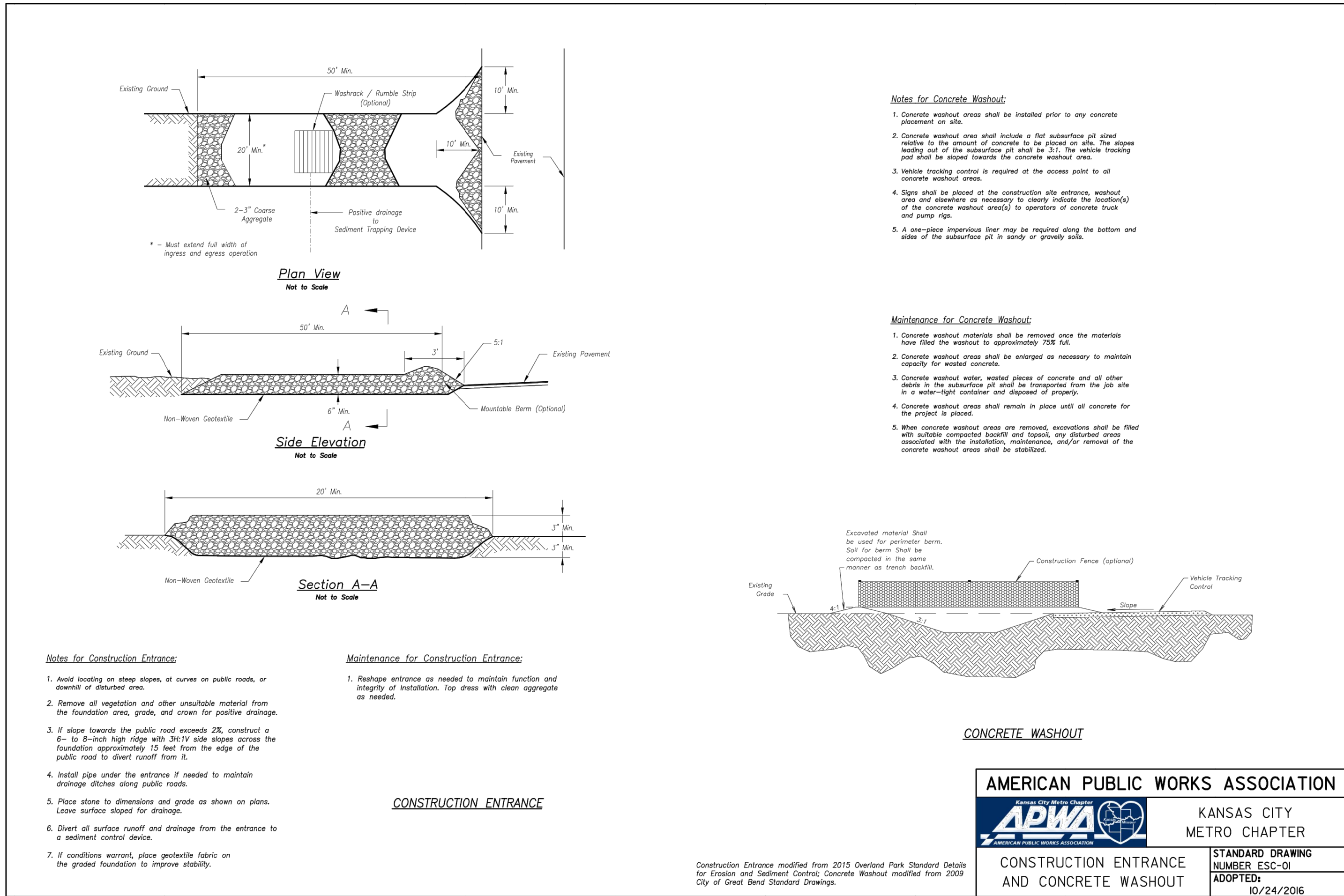
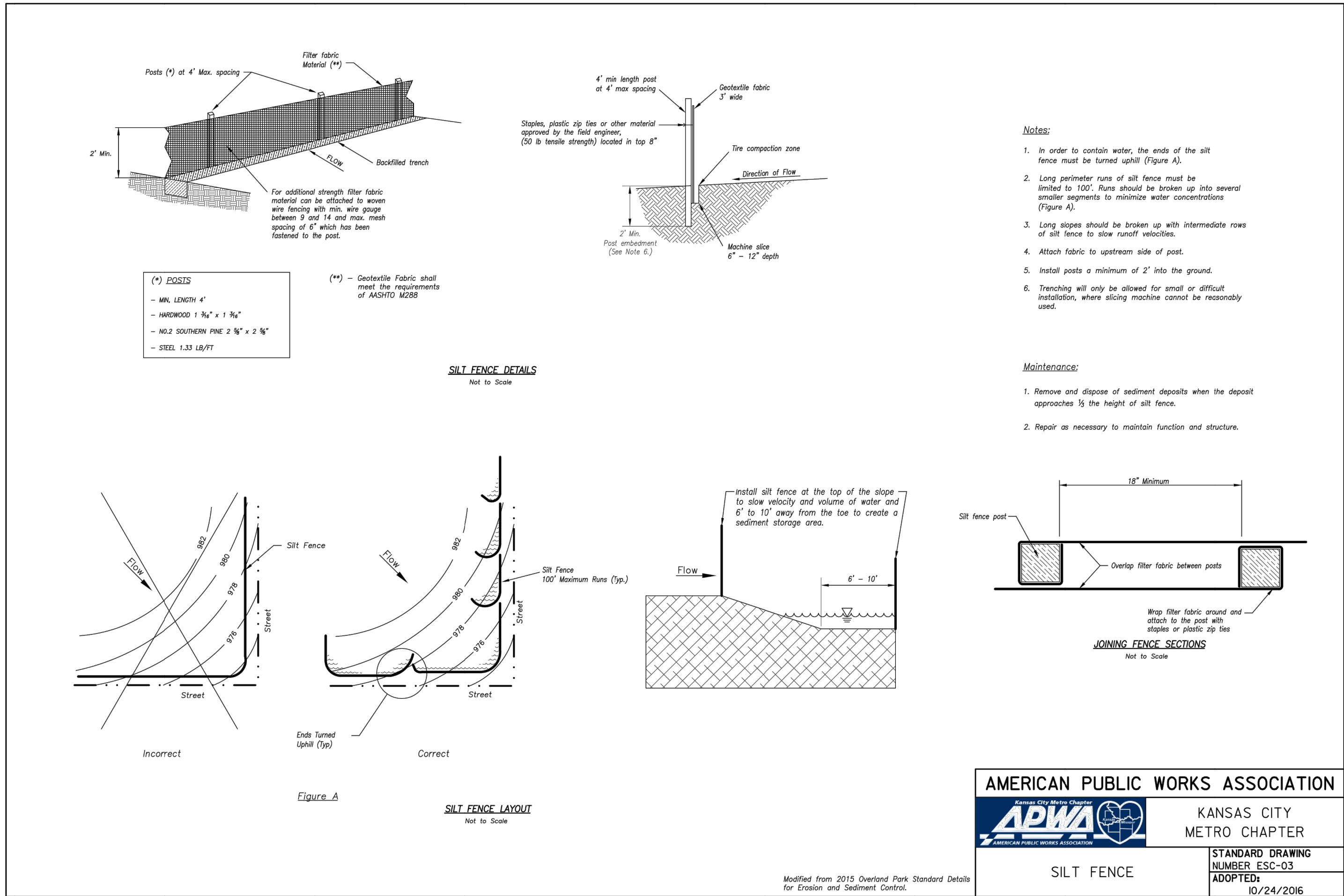
Project:
HOME DEPOT
C-STORE LSMO
Issue Date:
September 23, 2022

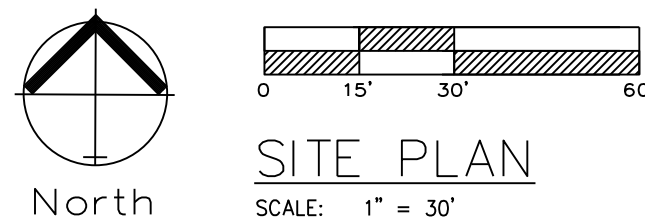
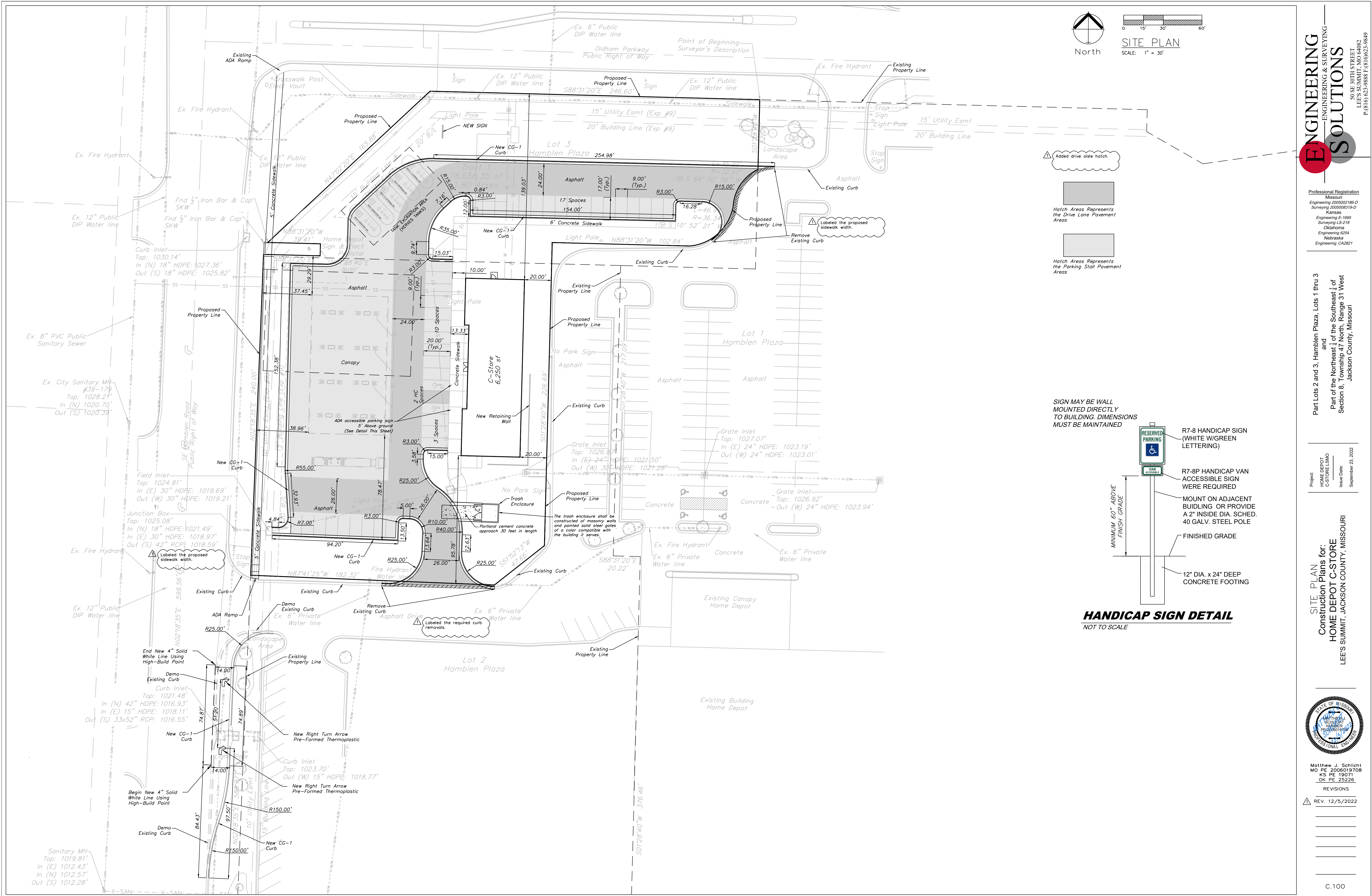
ESC PHASE 3 - Final Restoration Plan
Construction Plans for:
HOME DEPOT C-STORE
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



Matthew J. Schlicht
MO PE 2006019708
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OK PE 25526

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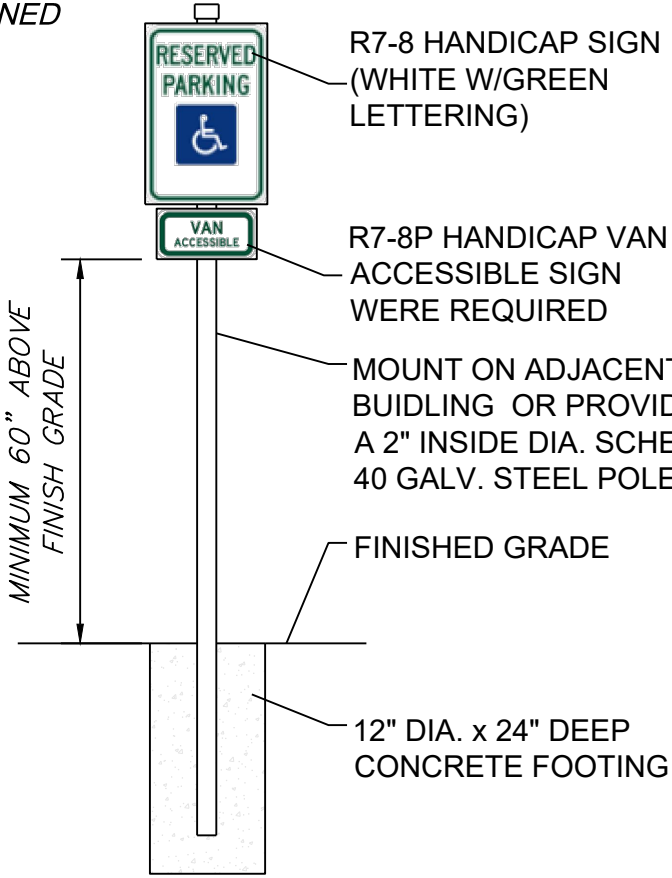


Added drive aisle hatch.

Hatch Areas Represents the Drive Lane Pavement Areas

Hatch Areas Represents the Parking Stall Pavement Areas

SIGN MAY BE WALL MOUNTED DIRECTLY TO BUILDING. DIMENSIONS MUST BE MAINTAINED



HANDICAP SIGN DETAIL
NOT TO SCALE

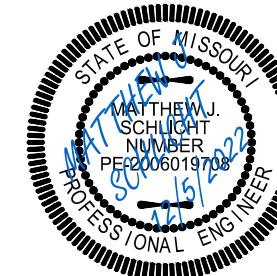


Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005005119-D
Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

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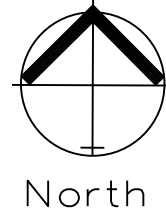
Project:
HOME DEPOT
C-STORE L&MO
Issue Date:
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SITE PLAN
Construction Plans for:
HOME DEPOT C-STORE
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



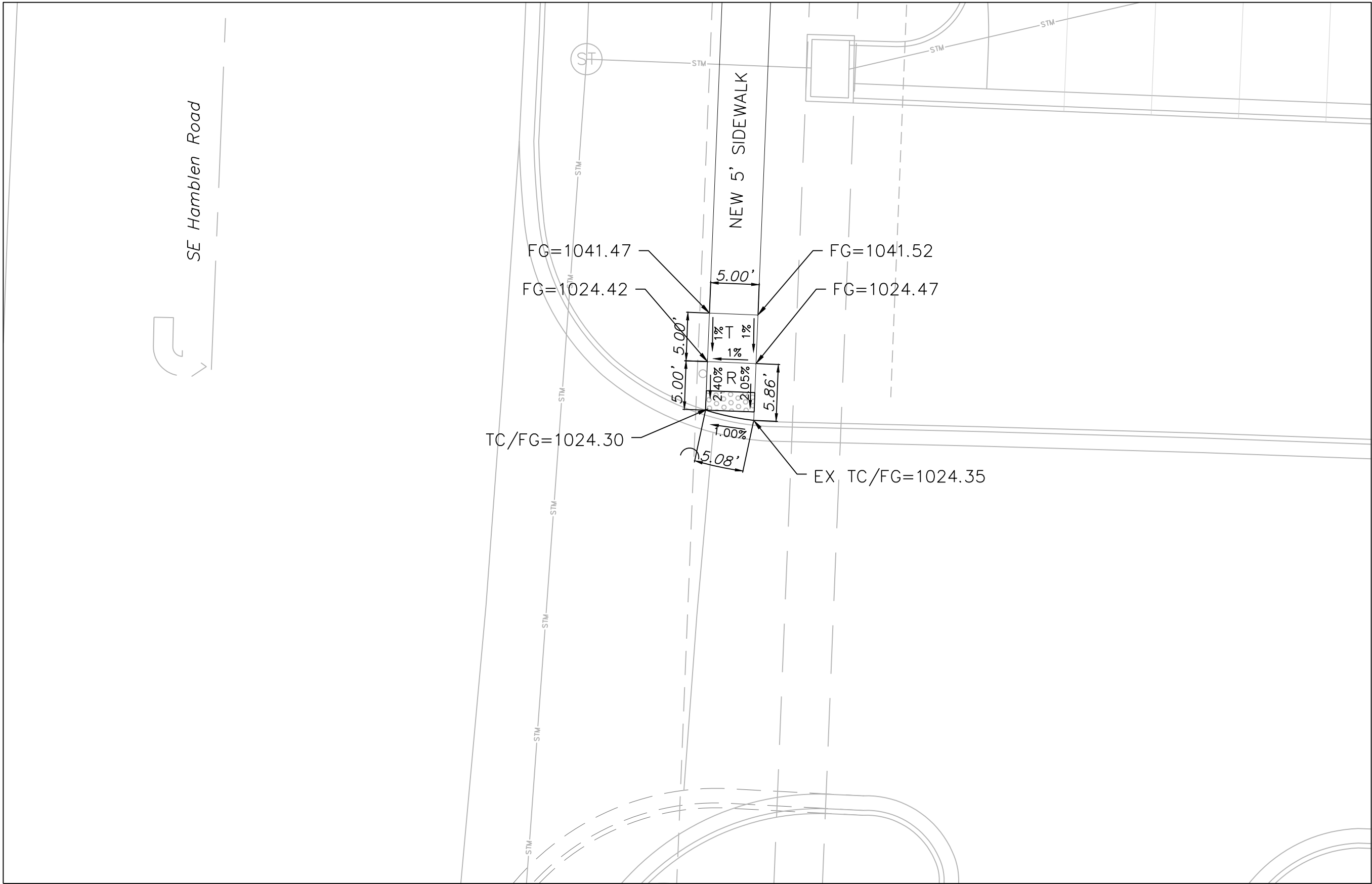
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OK PE 25326

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ADA RAMP SPOT ELEVATIONS

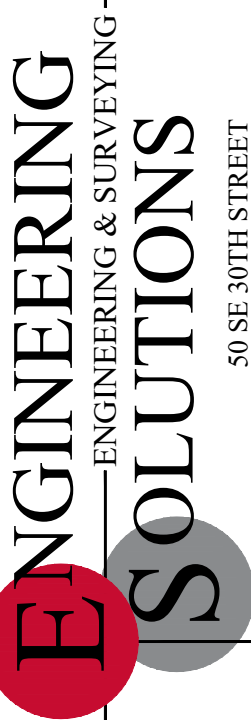
SCALE: 1" = 10'



DETAIL 1

Legend:

- EX TC = Existing Top of Curb
- EX FG = Existing Finished Grade
- FG = Finished Grade
- TC = Top of Curb
- TC/FG = Top of Curb/Finished Grade

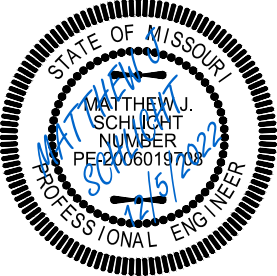


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Surveying 2005005119-D
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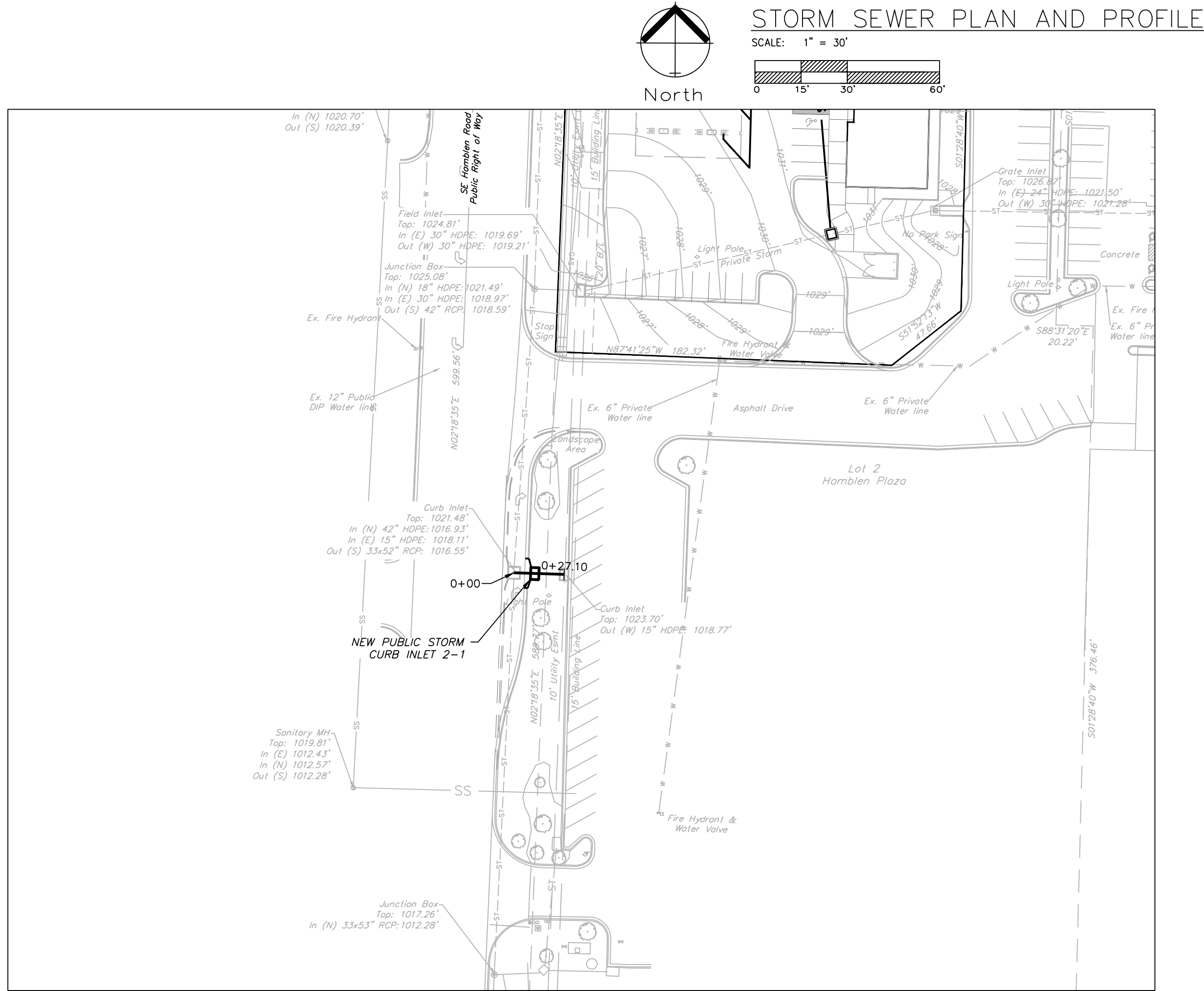
Project:
HOME DEPOT
C-STORE LSMO
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ADA RAMP SPOT ELEVATIONS
Construction Plans for:
HOME DEPOT C-STORE
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

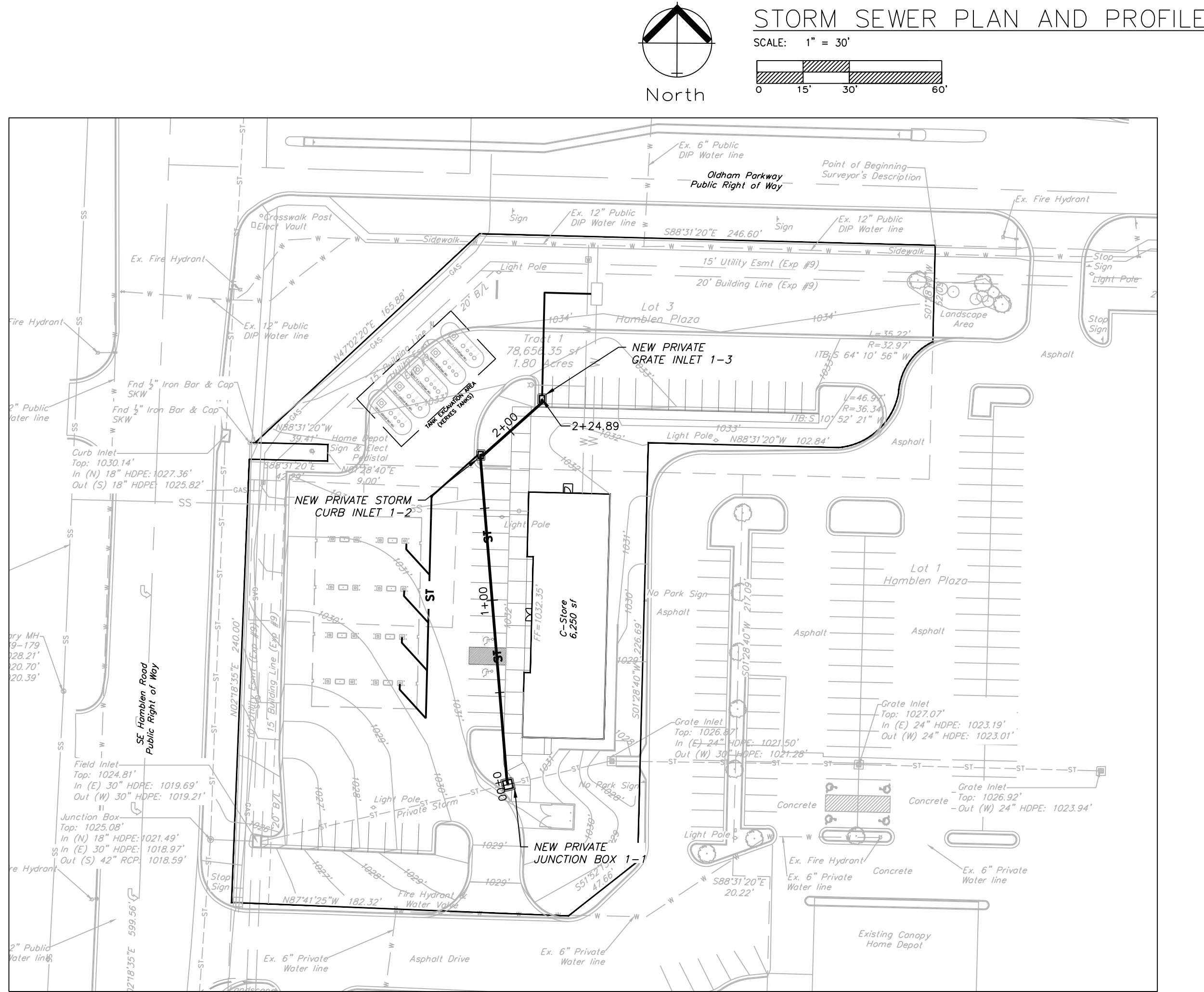
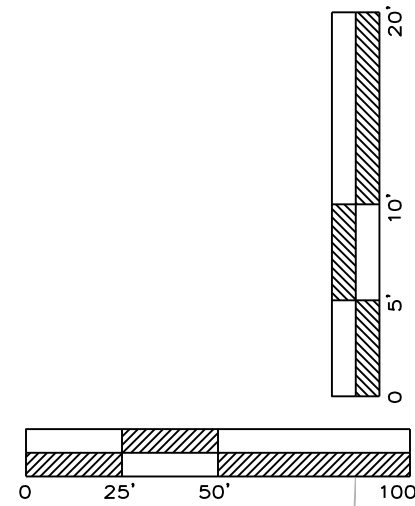
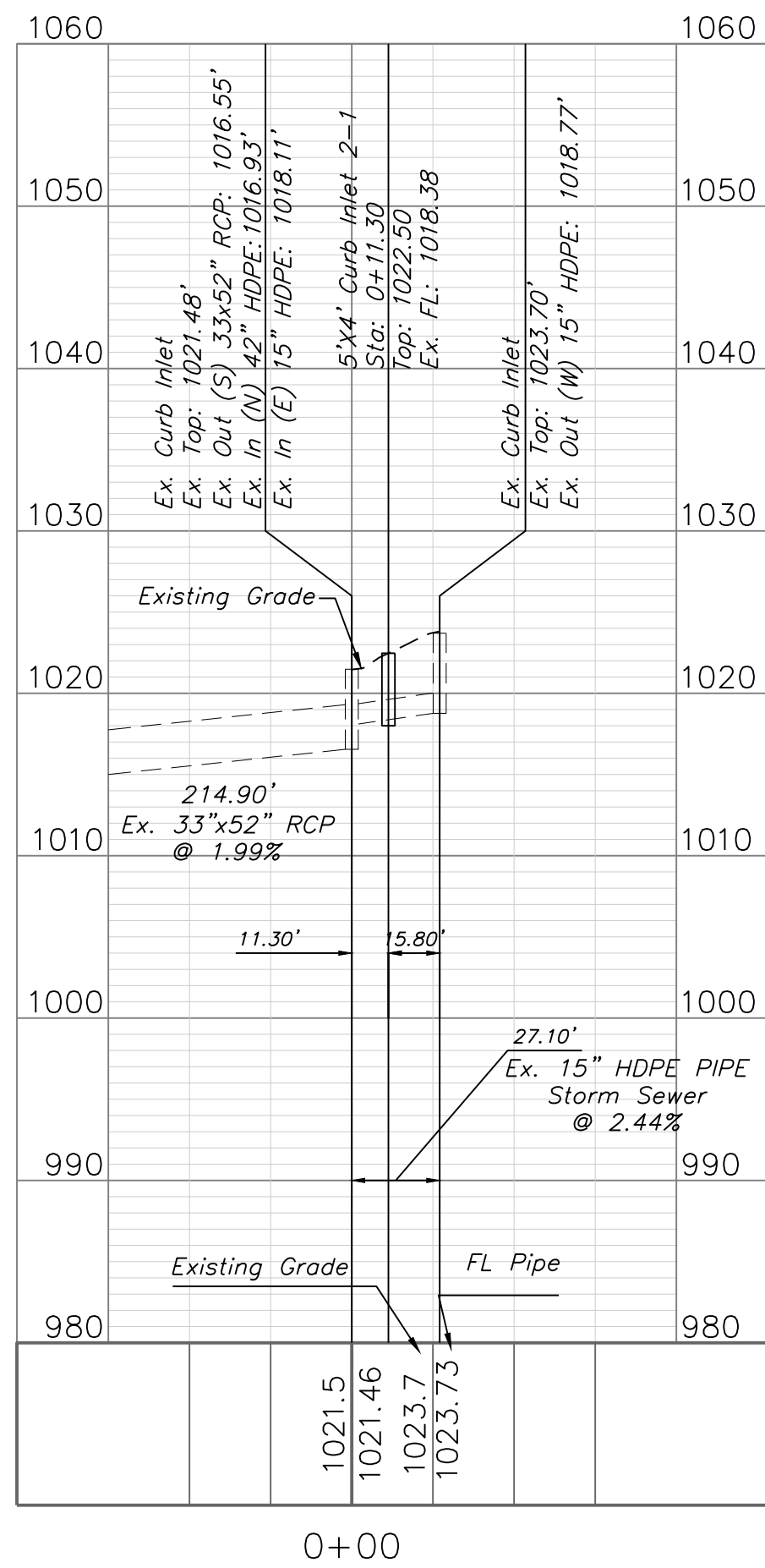


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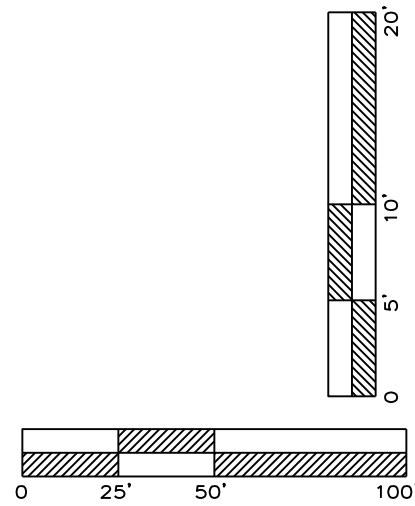
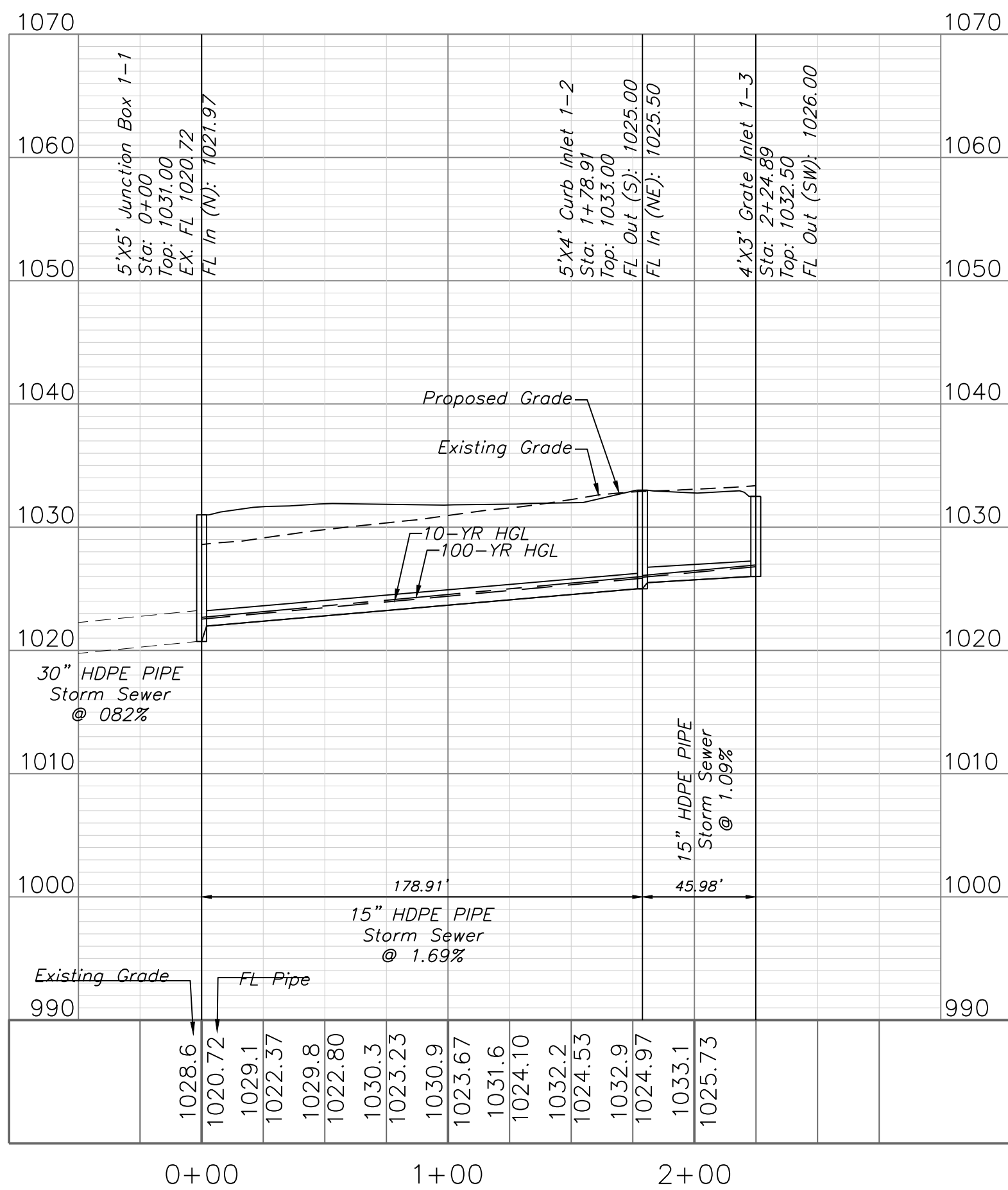
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STORM 2



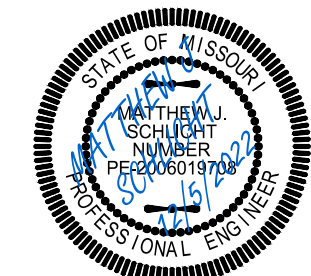
STORM 1



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Jackson County, Missouri

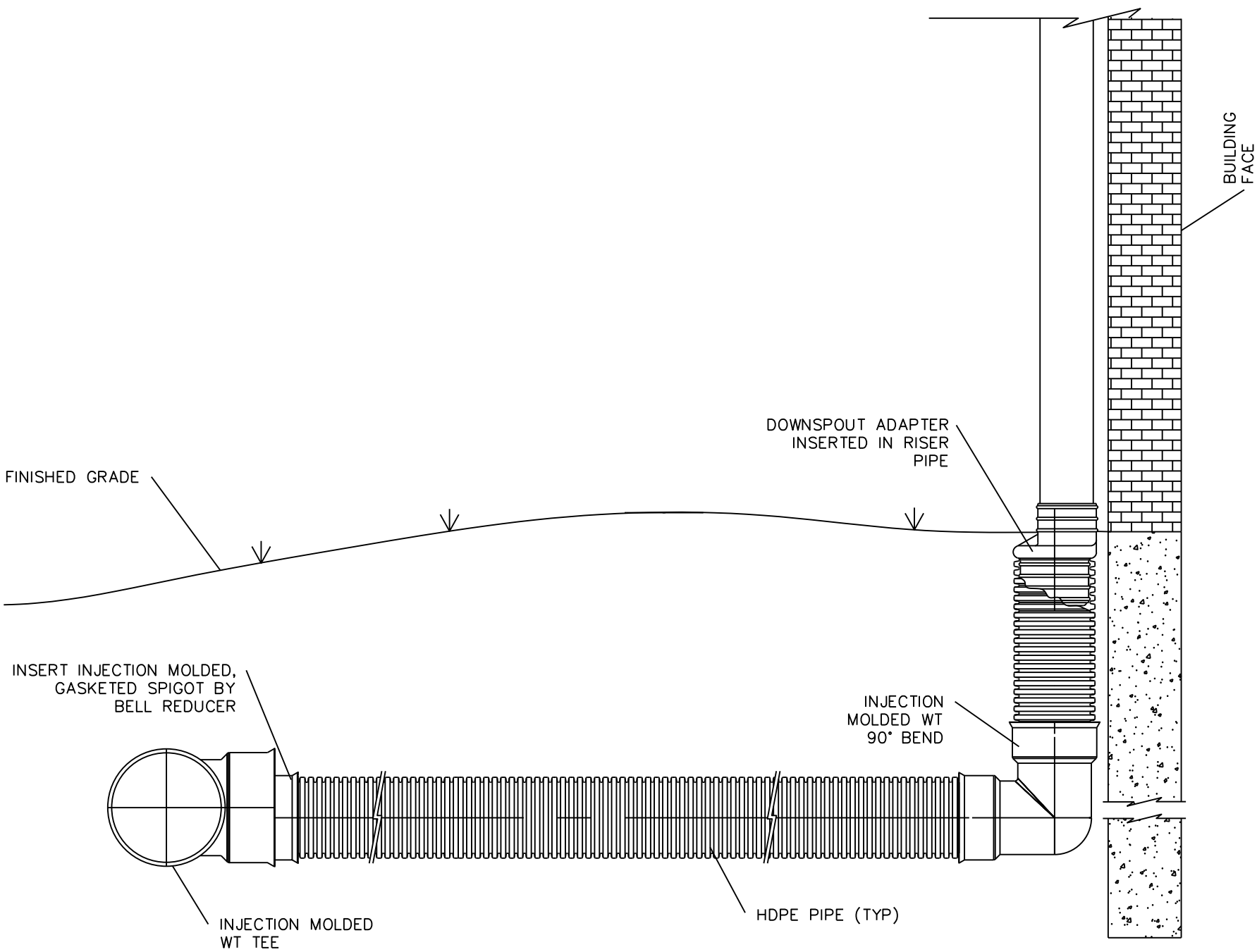
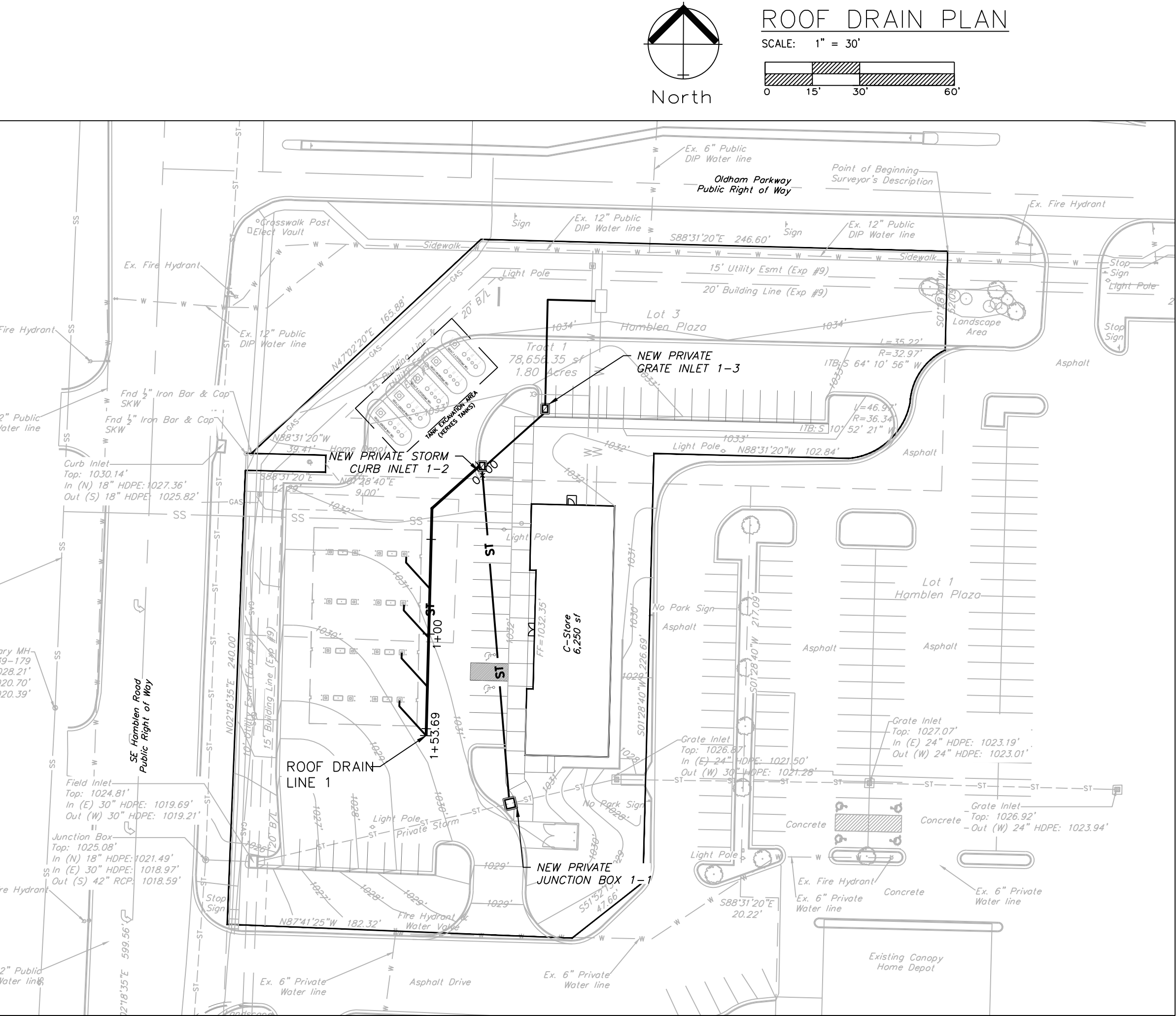
Project:
HOME DEPOT
C-STORE L&MO
Issue Date:
September 23, 2022

Storm Sewer Plan and Profile
Construction Plans for:
HOME DEPOT C-STORE
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

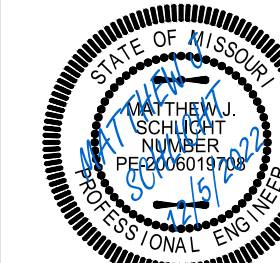


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KS PE 19071
OK PE 25226

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ROOF DRAIN PLAN
Construction Plans for:
HOME DEPOT C-STORE
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



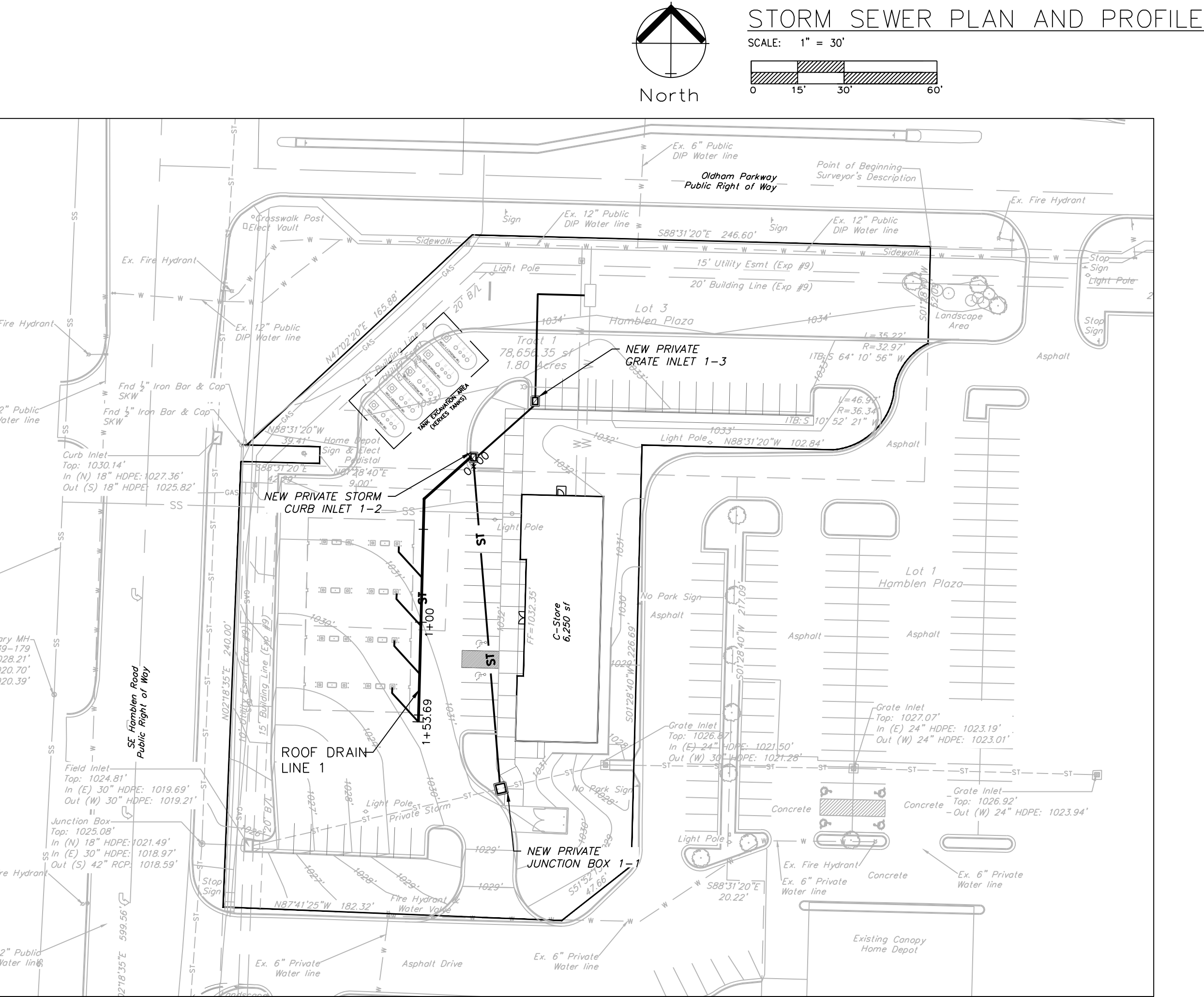
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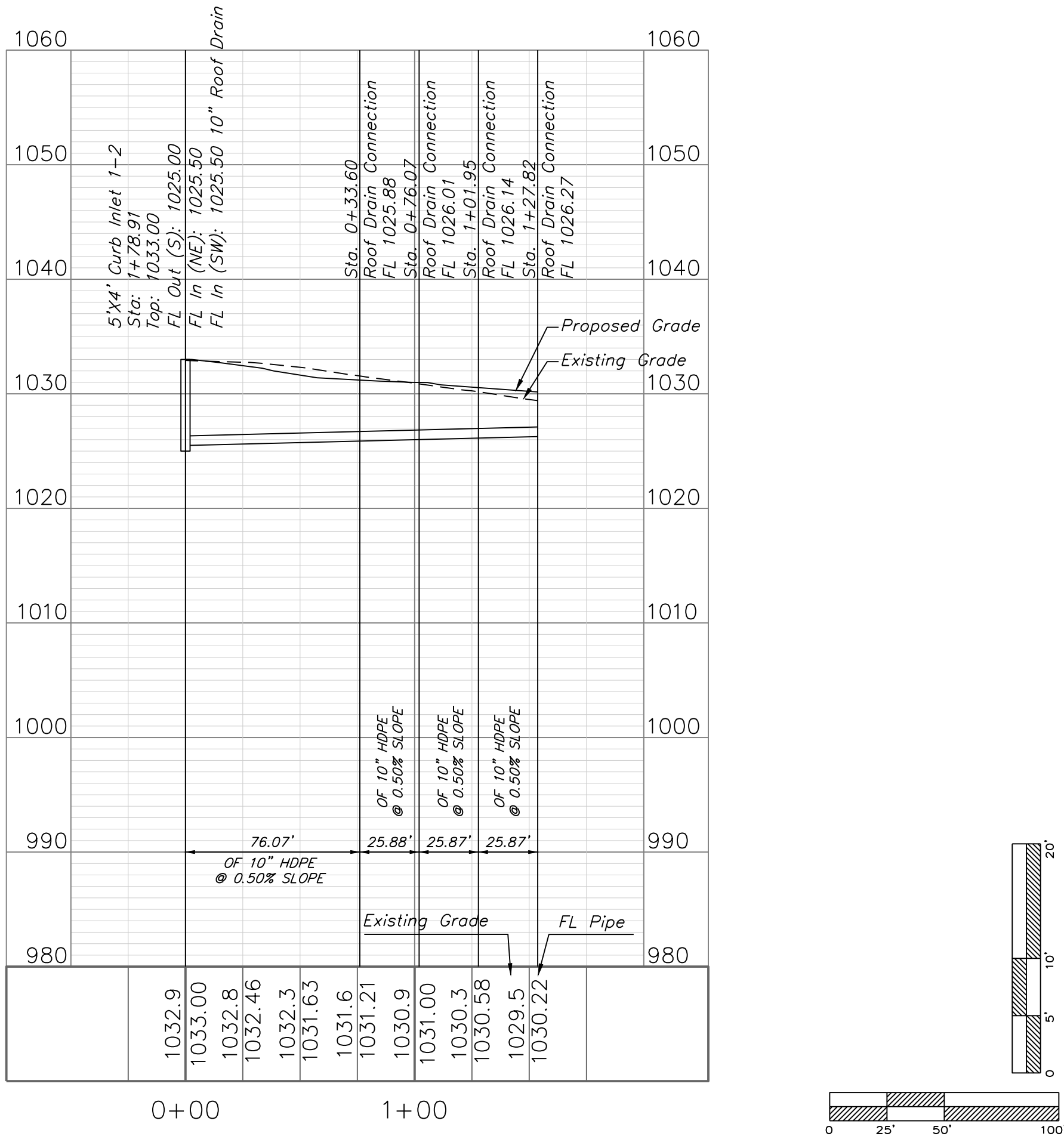
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Project:
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Professional Registration
Missouri
Engineering 2005002188-D
Surveying 2005000518-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821



ROOF DRAIN 1



ENGINEERING SOLUTIONS

ENGINEERING & SURVEYING

50 SE 30TH STREET
LEES SUMMIT, MO 64082
P: (816) 623-9888 F: (816) 623-9849

Professional Registration

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Surveying 2005006818-D

Kansas
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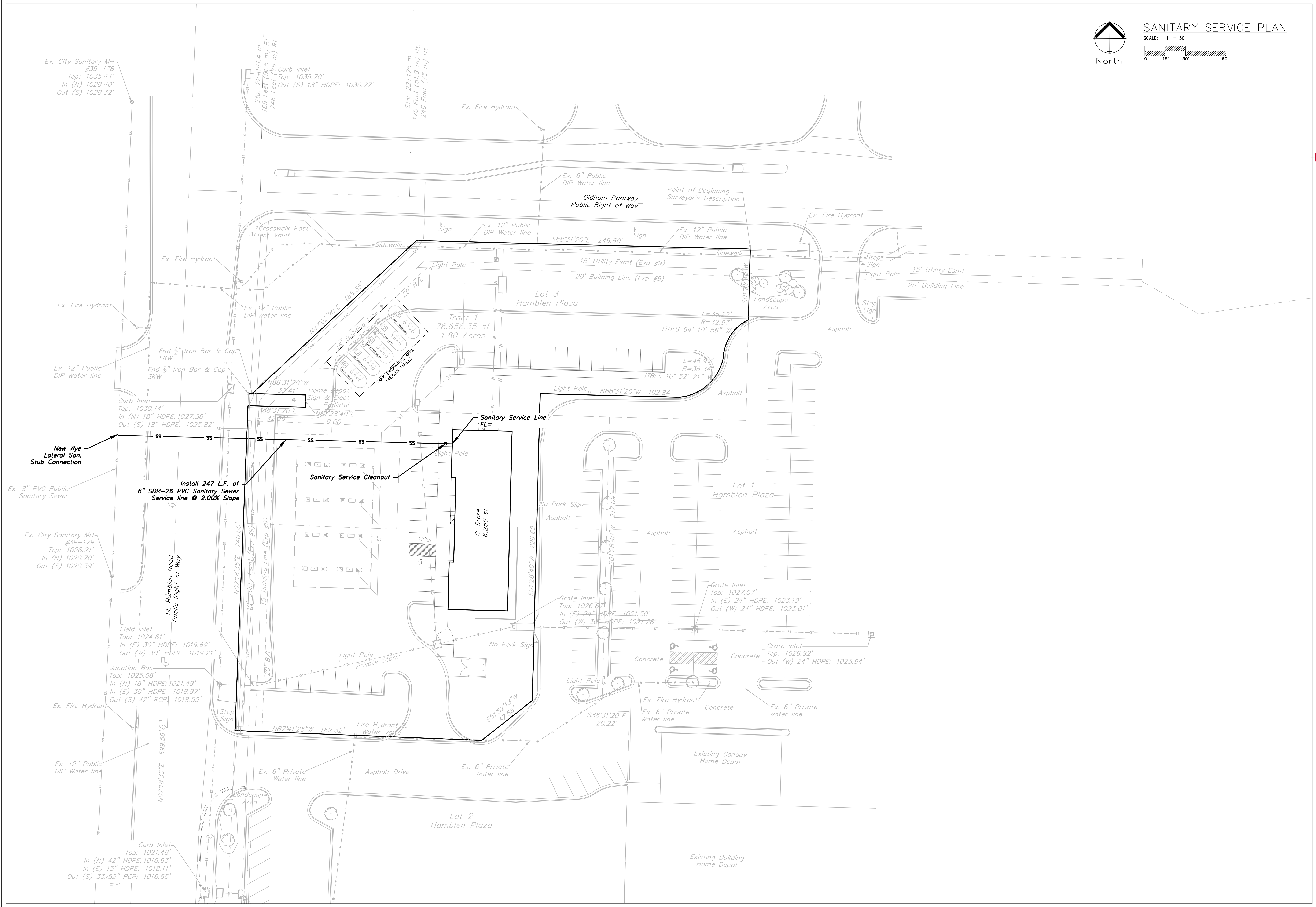
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Construction Plans for:
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LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

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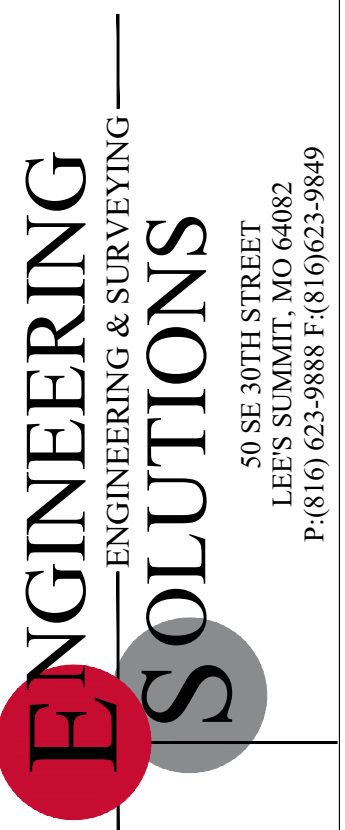
REVISIONS

REV. 12/5/2022

C. 303



SANITARY SERVICE PLAN
SCALE: 1" = 30'

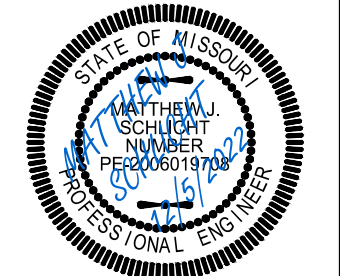


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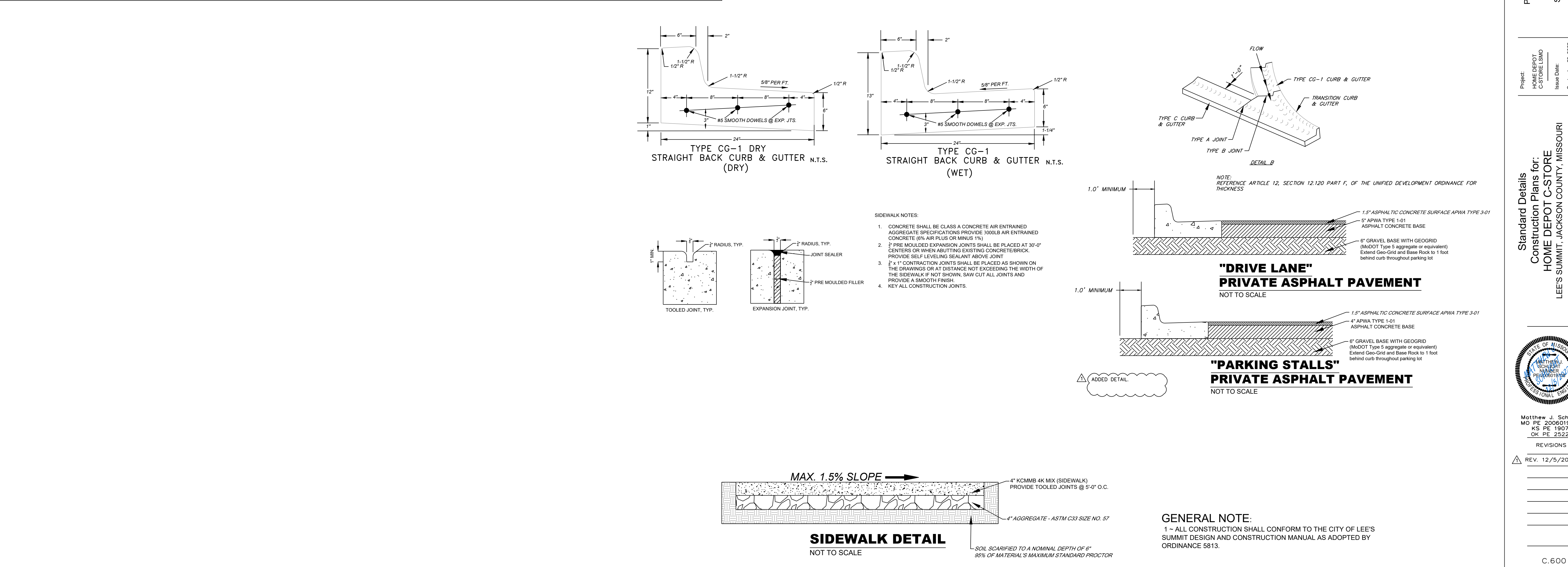
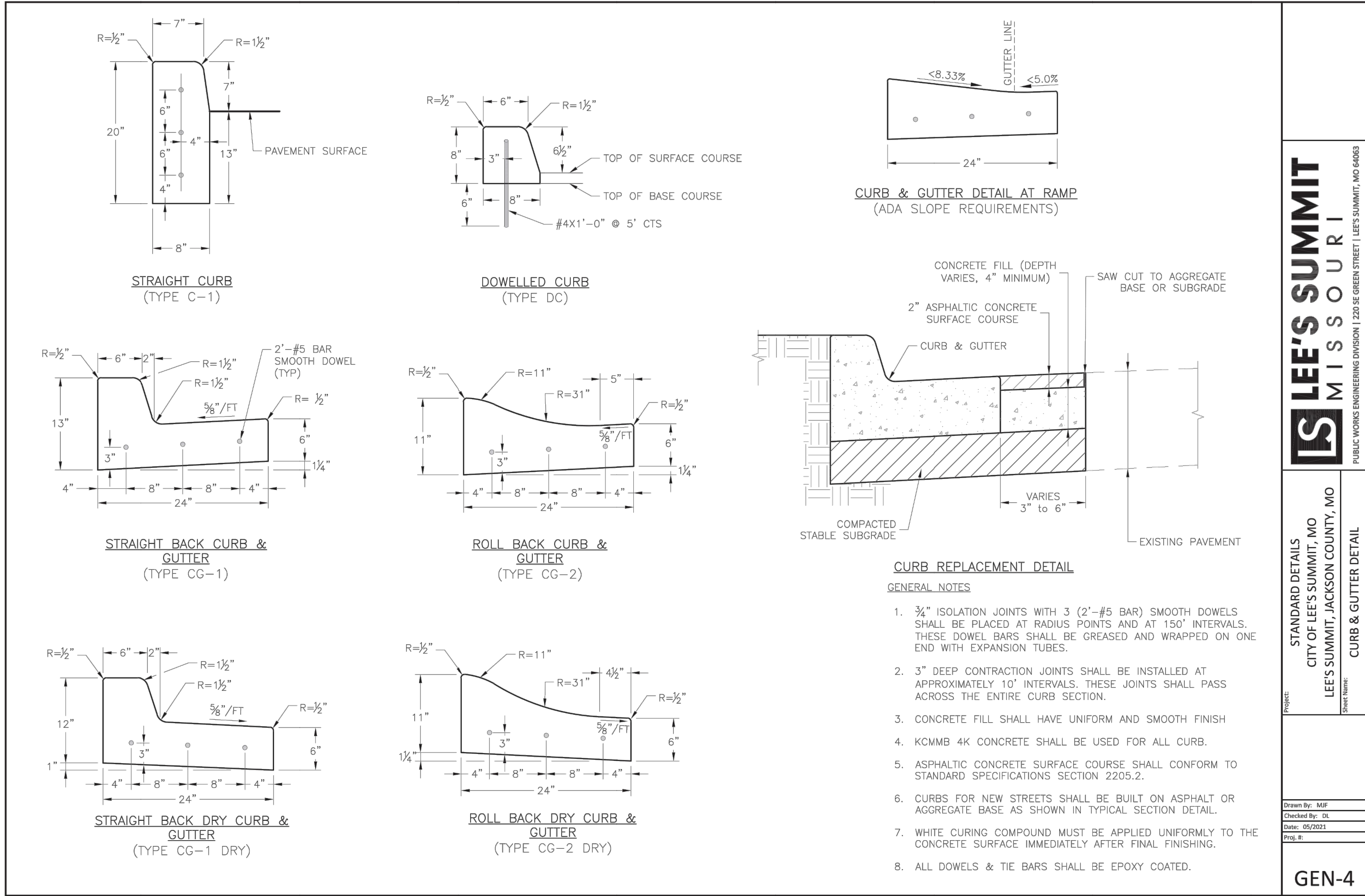
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Sanitary Service Plan
Construction Plans for:
HOME DEPOT C-STORE
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI



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ENGINEERING
ENGINEERING & SURVEYING
SOLUTIONS

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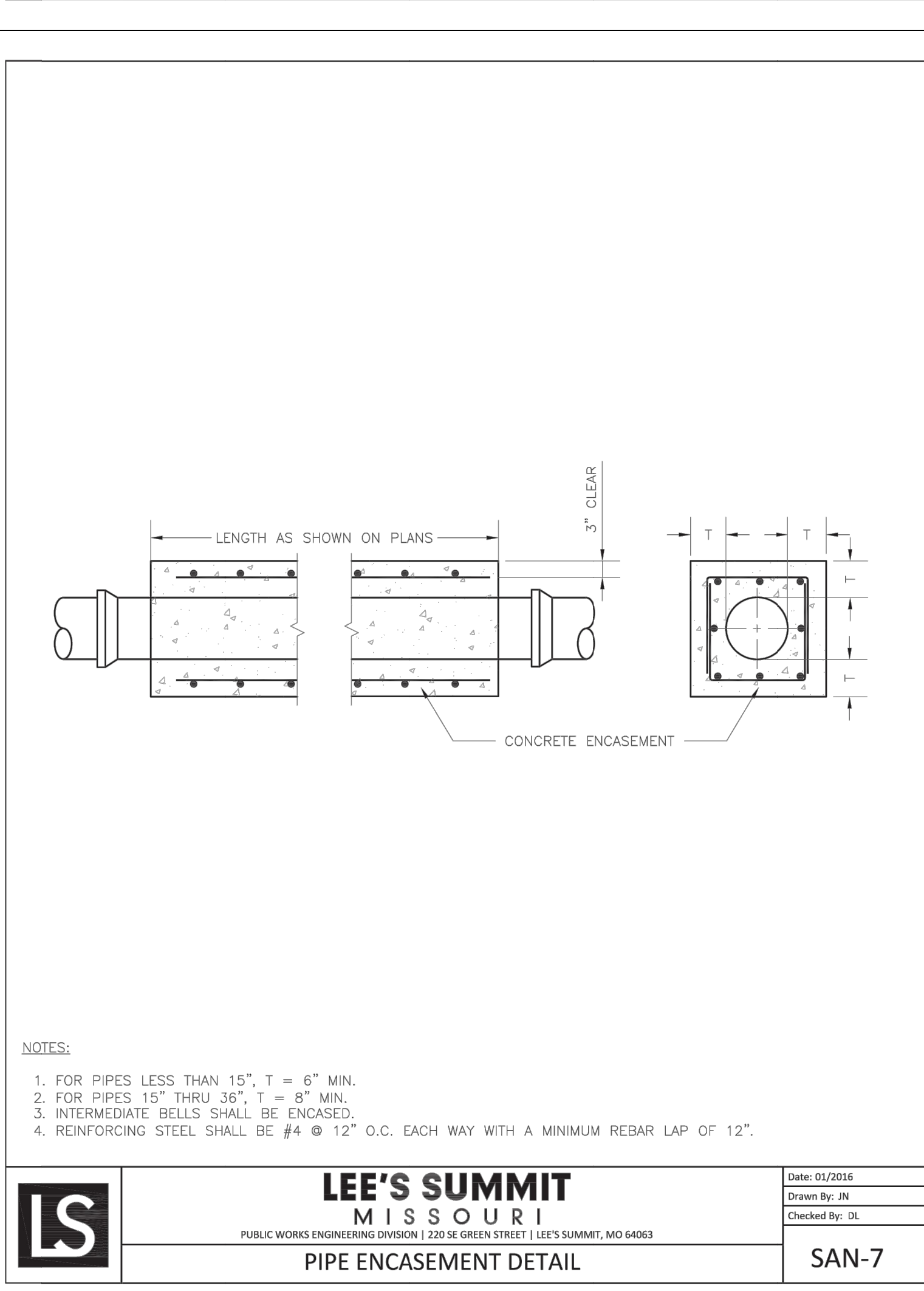
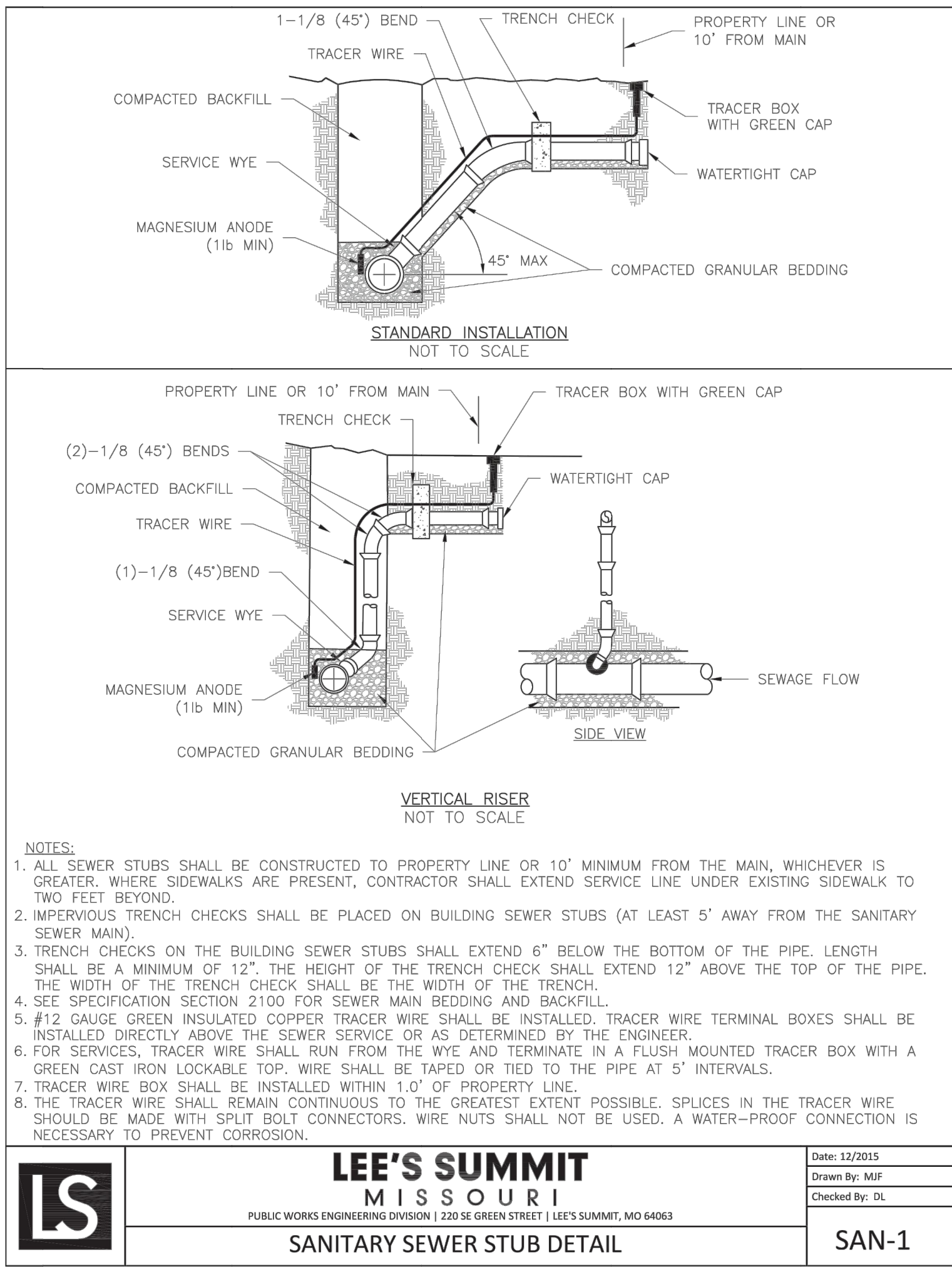
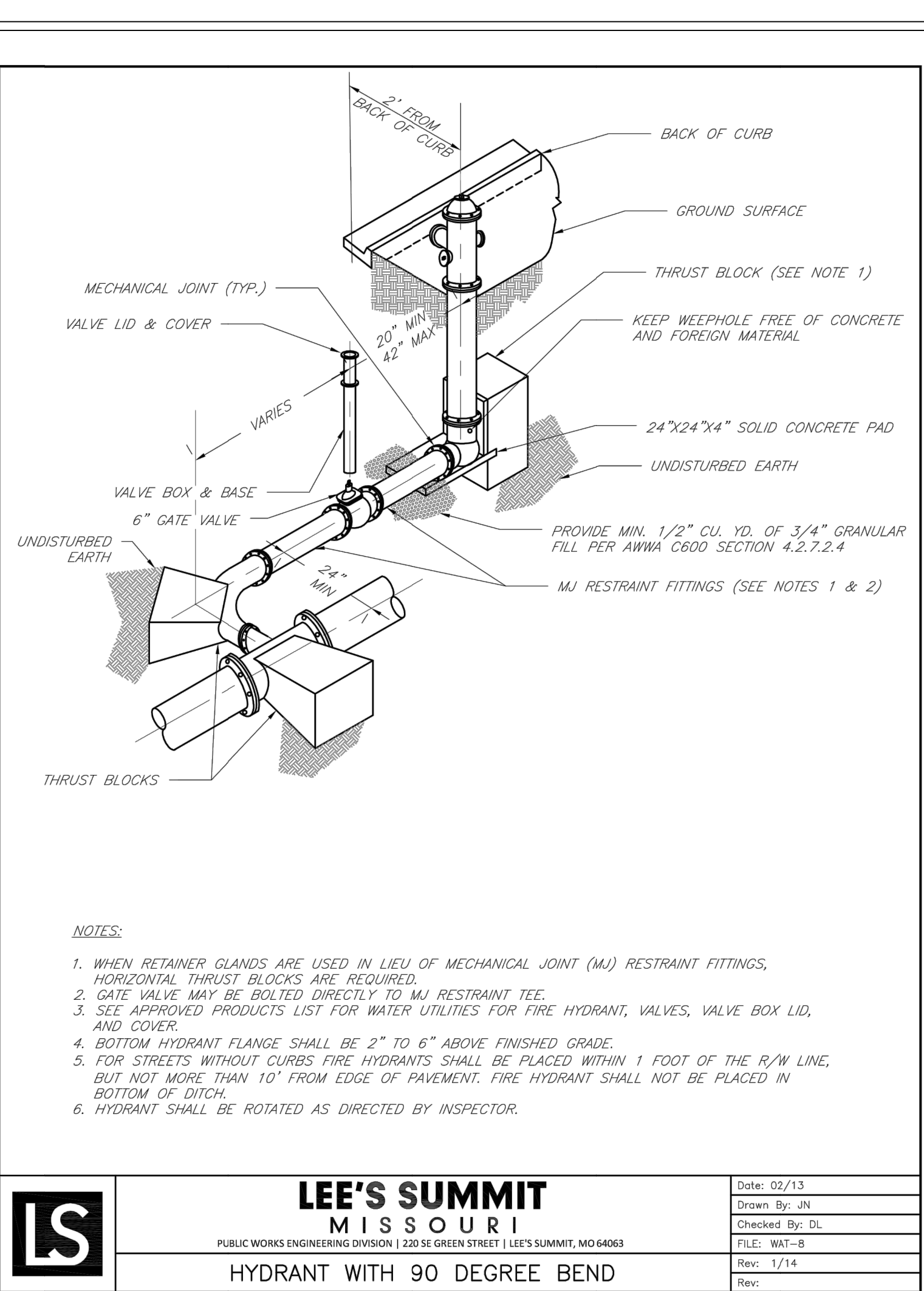
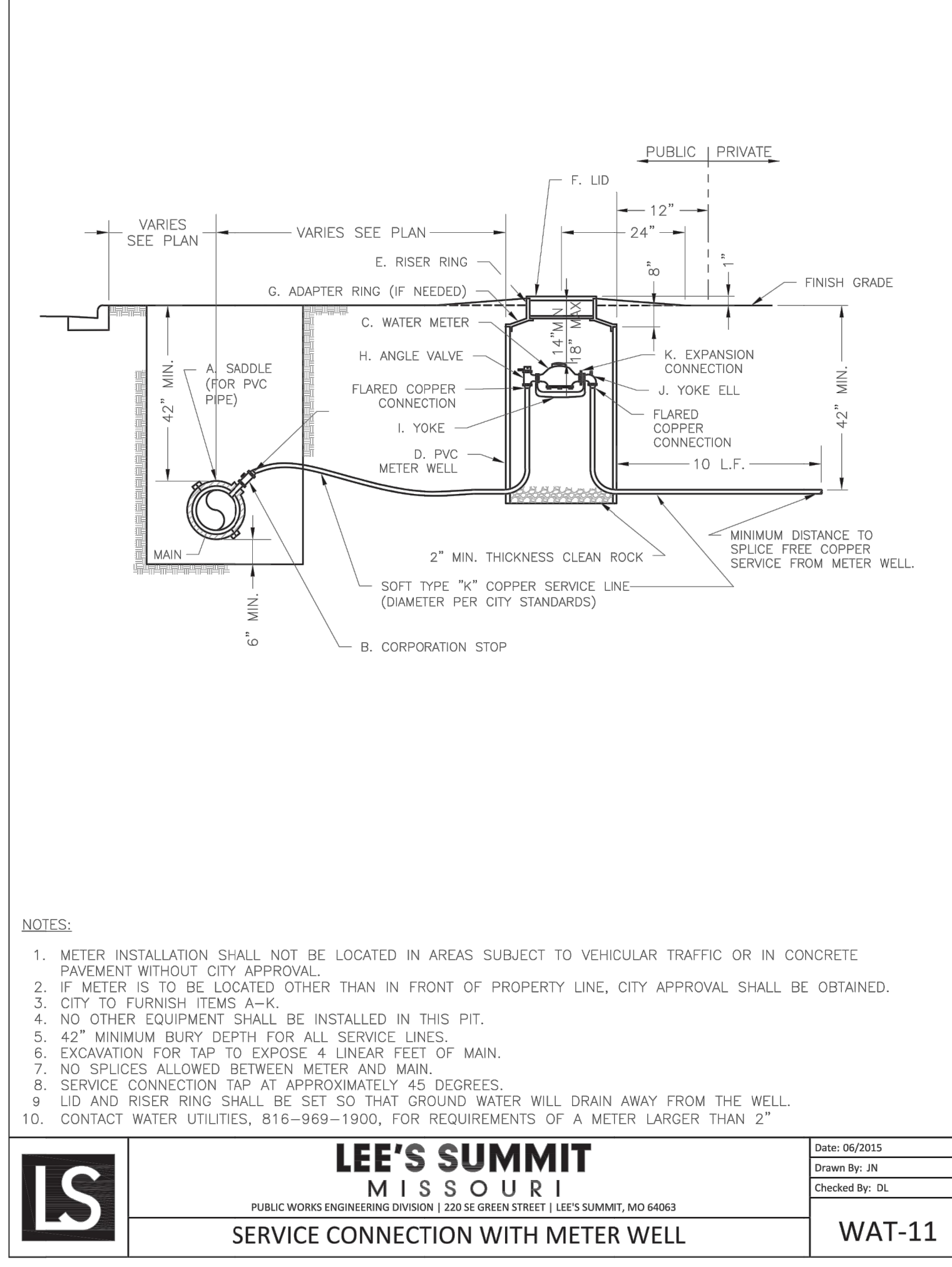
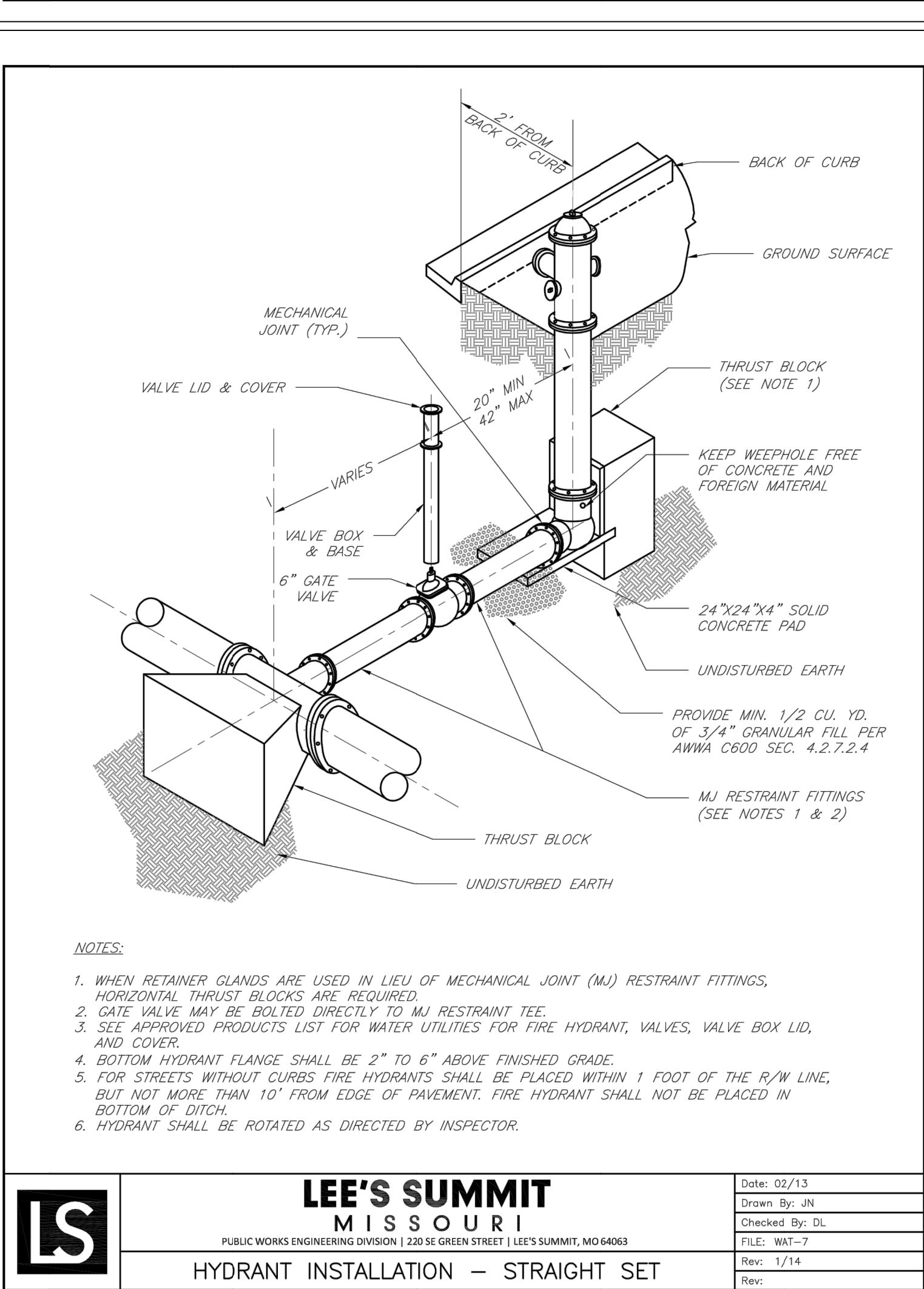
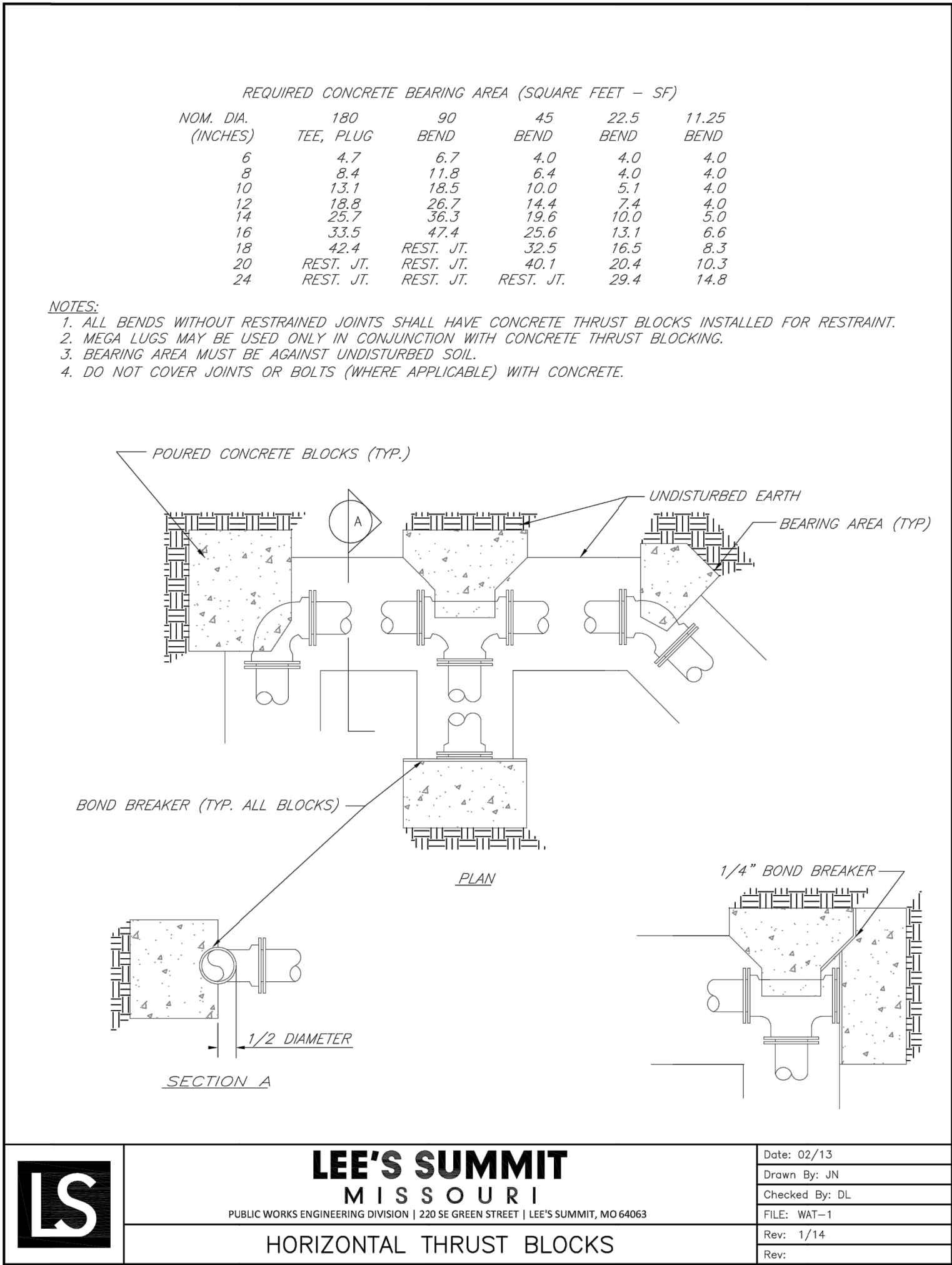
Project:
HOME DEPOT
C-STORE LSMO
Issue Date:
September 23, 2022

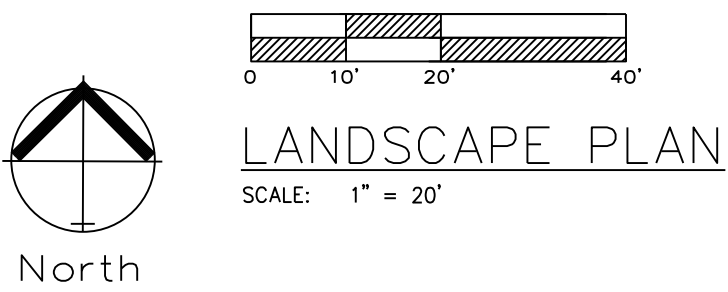
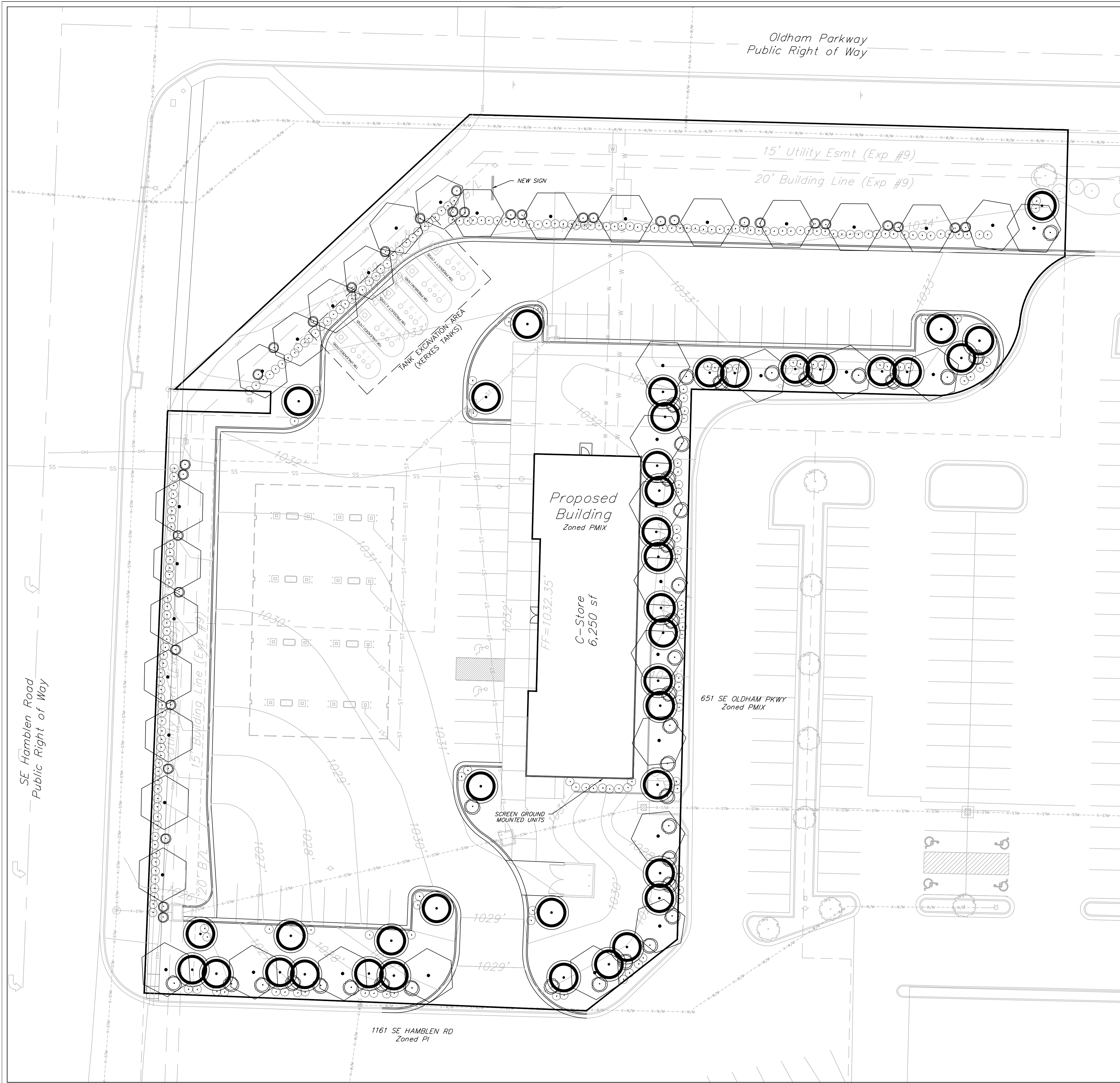
Standard Details
Construction Plans for:
HOME DEPOT C-STORE
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

STATE OF MISSOURI
MATTHEW J. SCHLICHT
NUMBER
2006019708
EXPIRATION
DATE
09-16-26
PROFESSIONAL ENGINEER

Matthew J. Schlicht
MO PE 2006019708
KS PE 190071
OK PE 255226
REVISIONS
REV. 12/5/2022

C.600





LANDSCAPE WORKSHEET			
	ORDINANCE REQUIREMENT	REQUIRED FOR THIS SITE	PROPOSED LANDSCAPE
14.090.A.1 Street Frontage Trees (SE Hamblen Rd)	1 tree per 30 feet of street frontage	332 ft. of street frontage /30= 11 trees required	11 Trees Provided
14.090.A.3 Street Frontage Shrubs (SE Hamblen Rd)	1 shrub per 20 feet of street frontage	332 ft. of street frontage /20= 17 shrubs required	22 shrubs provided
14.090.A.1 Street Frontage Trees (Oldham Parkway)	1 tree per 30 feet of street frontage	330 ft. of street frontage /30= 11 trees required	11 Trees Provided
14.090.A.3 Street Frontage Shrubs (Oldham Parkway)	1 shrub per 20 feet of street frontage	330 ft. of street frontage /20= 17 shrubs required	22 shrubs provided
14.090.B.1 Open Yard Shrubs	2 shrubs per 5000 sq. ft. of total lot area excluding building and parking	87,011 sq. ft. of total lot area minus 44,437 sq. ft. of bldg. & parking= 42,574 sq. ft. /5,000 x 2 = 17 shrubs	18 shrubs
14.090.B.3 Open Yard Trees	1 tree per 5000 sq. ft. of total lot area excluding building and parking.	87,011 sq. ft. of total lot area minus 44,437 sq. ft. of bldg. & parking= 42,574 sq. ft. /5,000 = 9 trees	9 Provided
14.110. Parking Lot Landscape	5% of entire parking area (spaces, aisles & drives); 1 island at end of every parking bay, min. 9' wide	38,808 sq. ft. of parking area x .05 = 1,940 sq. ft. of landscape parking lot islands required	1,940 sq. ft.
14.120 Screening of Parking Lot, Road	12 shrubs per 40 linear feet (must be 2.5 feet tall; berms may be combined with shrubs)	662 linear feet/40 x 12	199 shrubs provided
*STREET SHRUBS ARE SATISFIED WITH PARKING LOT SCREENING REQUIREMENTS.			

NOTE:
BUFFER/SCREEN REQUIRED BETWEEN LAND USES
Proposed use CP-2
Adjoining use PMIX, PI
Medium impact screening. A 70 percent semi-opaque screen between land uses which are dissimilar in character. Semi-opaque screening should partially block views from adjoining land uses and create a separation between the adjoining land uses. For medium impact screening either a landscape screen or fencing is required.

PLANTING SCHEDULE:
IS FOR PHASE 1 ONLY. AT FULL BUILD THE UNIFIED DEVELOPMENT ORDINANCE REQUIREMENTS SHALL BE MET.

SYMBOL	QUANT.	KEY	NAME	SIZE
tree	38	TA	AMERICAN BASSWOOD LINDEN TILIA AMERICANA	3.0" CAL
evergreen	71	SR	SKYROCKET JUNIPER JUNIPERUS SCOPULORUM "SKYROCKET"	8' HL
tree	41	RB	OKLAHOMA REDBUD CERCIS RENIFORMIS "OKLAHOMA"	3.0" CAL
shrub	235	BB	BURNING BUSH EUONYMUS ALATA "COMPACTUS"	2 Gallon Pot

NOTE:
MECHANICAL EQUIPMENT TO BE SCREENED TO A HEIGHT OF 3'.

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Surveying 200500519-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

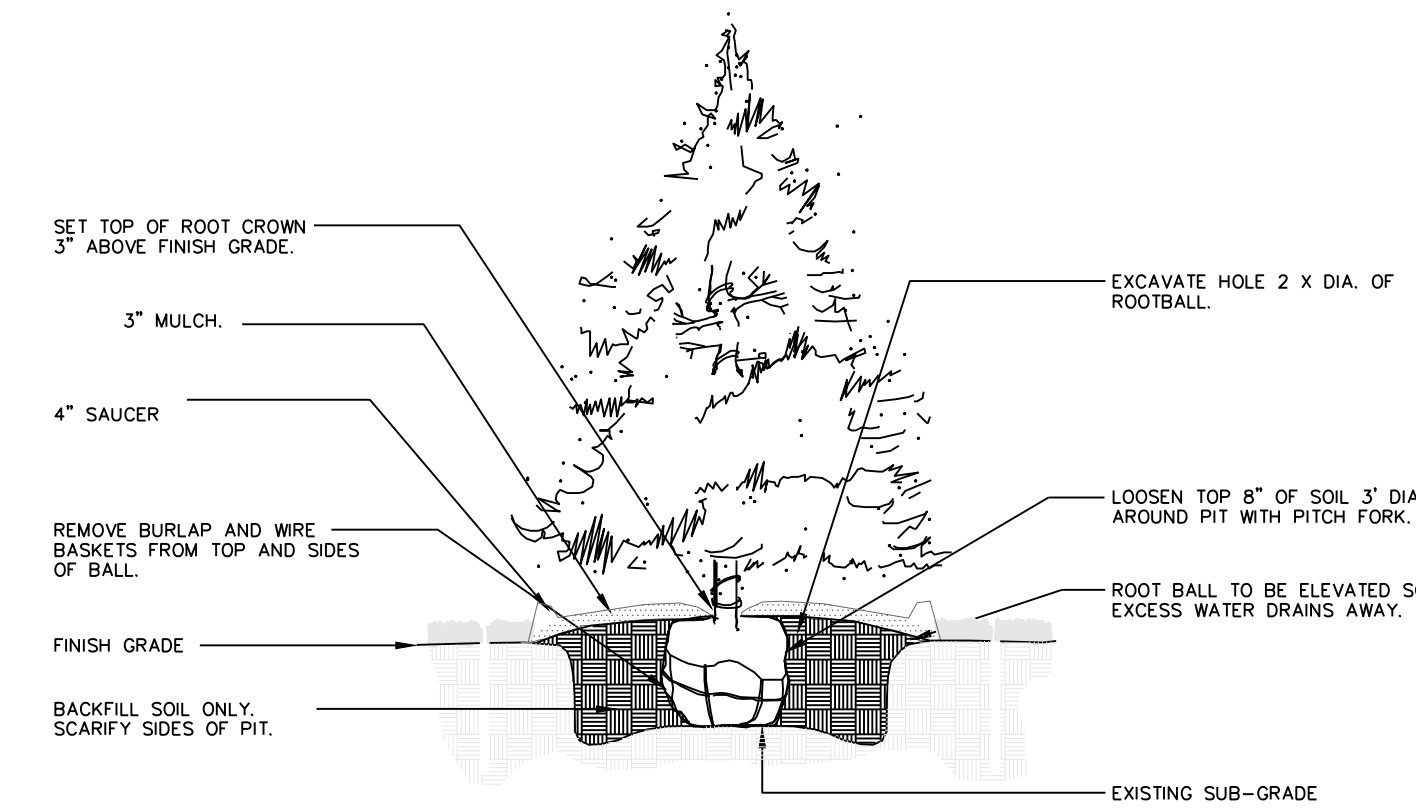
Part Lots 2 and 3, Hamblen Plaza, Lots 1 thru 3
and
Part of the Northeast 1/4 of the Southeast 1/4 of
Section 8, Township 47 North, Range 31 West
Jackson County, Missouri

Project:
HOME DEPOT
C-STORE LSMO
Issue Date:
September 23, 2022

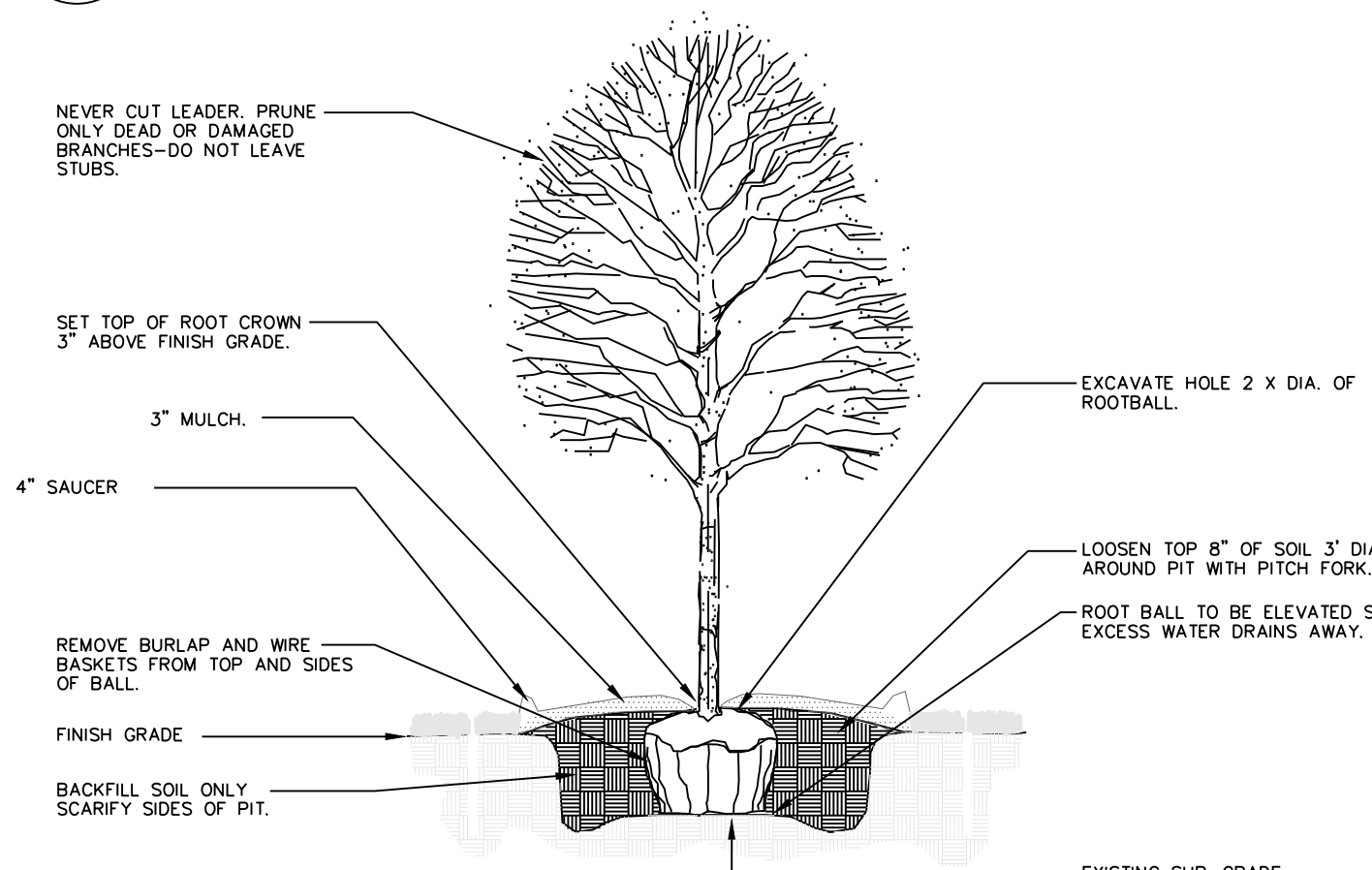
LANDSCAPE PLAN
Construction Plans for:
HOME DEPOT C-STORE
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25526
REVISIONS
REV. 12/5/2022

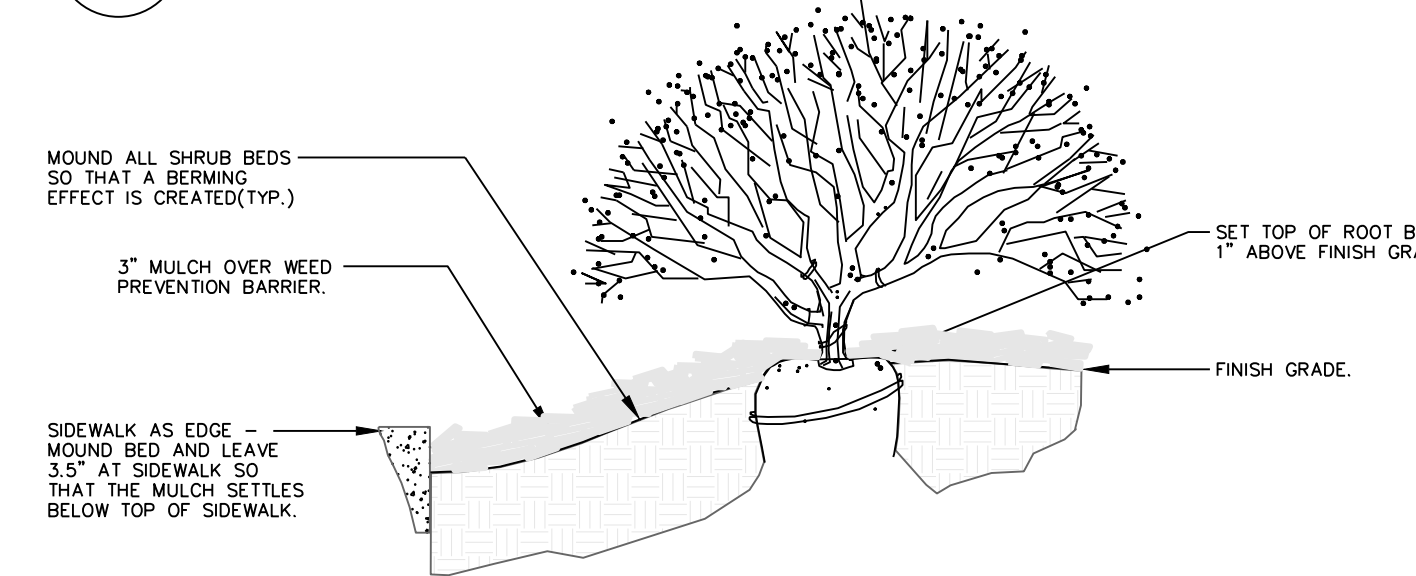
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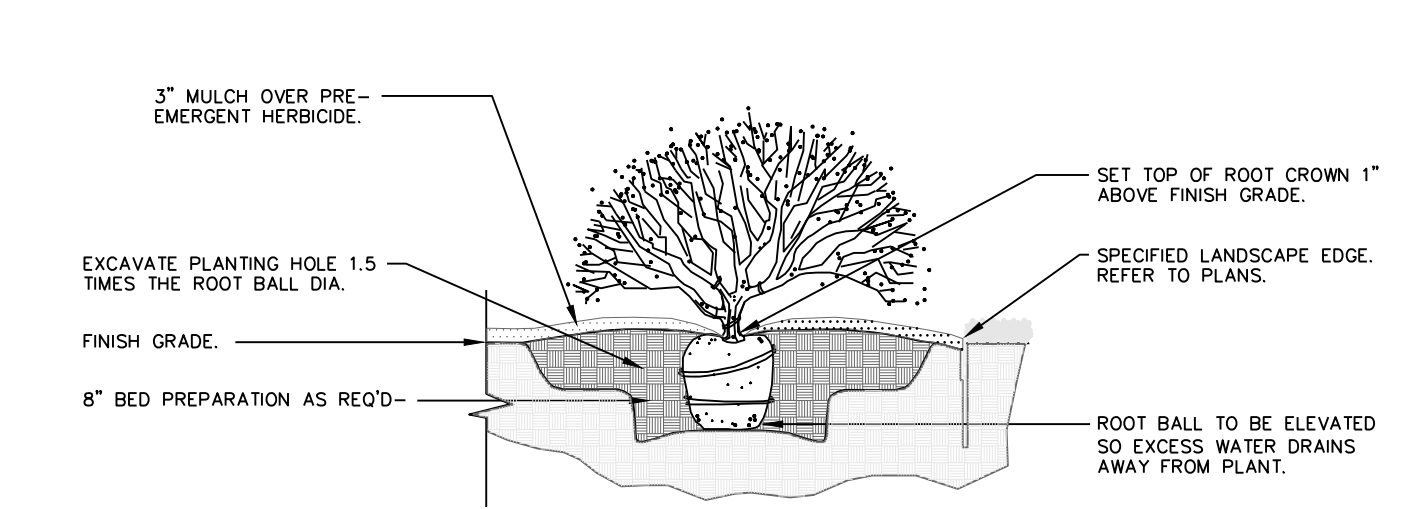
1 **EVERGREEN TREE PLANTING** NTS



2 **DECIDUOUS TREE PLANTING** NTS



3 **SIDEWALK EDGE AT PLANT BED** NTS



4 **SHRUB PLANTING** NTS

GENERAL LANDSCAPE NOTES: PLANT MATERIAL

- ALL PLANT MATERIAL SHALL BE FIRST CLASS REPRESENTATIVES OF SPECIFIED SPECIES, VARIETY OR CULTIVAR, IN HEALTHY CONDITION WITH NORMAL WELL DEVELOPED BRANCHES AND ROOT PATTERNS. PLANT MATERIAL MUST BE FREE OF OBJECTIONABLE FEATURES. PLANTS SHALL COMPLY IN ALL APPLICABLE RESPECTS WITH PROPER STANDARDS AS SET FORTH IN THE AMERICAN ASSOCIATION OF NURSERYMEN'S "AMERICAN STANDARD OF NURSERY STOCK", ANSI Z601-2004.
- SHRUBS SHALL BE CONTAINER GROWN AND WILL BE FREE OF DISEASE AND PESTS. NO BARE ROOT, ALL PLANT BEDS TO BE MULCHED TO A DEPTH OF 3" WITH DARK BROWN, HARDWOOD MULCH. PLANTING BEDS ARE TO BE FREE OF WEEDS AND GRASS. TREAT BEDS WITH A PRE-EMERGENT HERBICIDE PRIOR TO PLANTING AND MULCH PLACEMENT. APPLY IN ACCORDANCE WITH STANDARD TRADE PRACTICE.
- HOLE AREA FOR TREE TO BE TWICE (2x) THE DIAMETER OF THE ROOT BALL AND ROOT BALL SHALL BE SLIGHTLY MOUNDED FOR WATER RUN-OFF.
- ALL PLANT MATERIALS SHALL BE PROTECTED FROM THE DRYING ACTION OF THE SUN AND WIND AFTER BEING DUG, WHILE BEING TRANSPORTED, AND WHILE AWAITING PLANTING. BALLS OF PLANTS WHICH CANNOT BE PLANTED IMMEDIATELY SHALL BE PROTECTED FROM DRYING ACTION BY COVERING THEM WITH MOST MULCH. PERIODICALLY, APPLY WATER TO MULCH-COVERED BALLS TO KEEP MOIST. IF PLANTING SHOULD OCCUR DURING GROWING SEASON, APPLY ANTI-DESICCANT TO LEAVES BEFORE TRANSPORT TO REDUCE THE LIKELIHOOD OF WINDBURN. REAPPLY ANTI-DESICCANT AFTER PLANTING TO REDUCE TRANSPIRATION. REMOVE TWINE AND BURLAP FROM ROOT BALLS. SOIL ON TOP OF CONTAINERIZED OR BALLED PLANTS IS TO BE REMOVED UNTIL ALL PLANTS' ROOT FLARES ARE EXPOSED. THIS IS THE NATIVE SOIL LINE AT WHICH PLANTING DEPTHS SHOULD BE MEASURED.
- AFTER PLANTING IS COMPLETED, PRUNE MINIMALLY TO REMOVE DEAD OR INJURED TWIGS AND BRANCHES. PRUNE IN SUCH A MANNER AS NOT TO CHANGE THE NATURAL HABIT OR SHAPE OF THE PLANT. MAKE CUTS BACK TO BRANCH COLLAR, NOT FLUSH. DO NOT PAINT ANY CUTS WITH TREE PAINT. CENTRAL LEADERS SHALL NOT BE REMOVED.
- GUARANTEE TREES, SHRUBS, GROUND COVER PLANTS FOR ONE CALENDAR YEAR FOLLOWING PROVISIONAL ACCEPTANCE OF THE OVERALL PROJECT. DURING THE GUARANTEE PERIOD, PLANTS THAT DIE DUE TO NATURAL CAUSES OR THAT ARE UNHEALTHY OR UNSIGHTLY IN CONDITION, SHALL BE REPLACED BY THE CONTRACTOR.

LAWN AND TURF AREAS

- ALL LAWN AREAS TO BE SODDED AS SHOWN ON PLANS. SOD SHALL COMPLY WITH US DEPT. OF AGRICULTURE RULES AND REGULATIONS UNDER THE FEDERAL SEED ACT AND EQUAL IN QUALITY TO STANDARDS FOR CERTIFIED SEED. SOD SHALL BE HEALTHY, THICK TURF HAVING UNDERGONE A PROGRAM OF REGULAR FERTILIZING, MOWING AND WEED CONTROL. SEED AND SOD SHALL BE A TURF-TYPE TALL FESCUE (3 WAY) BLEND. SEED BLEND SHALL CONSIST OF THE FOLLOWING:

TURF-TYPE TALL FESCUE	90%
KENTUCKY BLUEGRASS	10%
- ALL AREAS DISTURBED SHALL BE SODDED.

INSTALLATION

- THE INSTALLATION OF ALL PLANT MATERIALS SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT, MO. AND LANDSCAPE INDUSTRY STANDARDS.
- ALL LANDSCAPE AREAS TO BE FREE OF ALL BUILDING DEBRIS AND TRASH, BACK FILLED WITH CLEAN FILL SOIL AND TOP DRESSED WITH 4" OF TOPSOIL. TOPSOIL SHALL HAVE A pH RANGE OF 5.5 TO 7 AND A 4% ORGANIC MATERIAL MINIMUM, ASTM D5085.
- PLANT BEDS TO BE "MOUNDED". ALL PLANT MATERIAL, PLANT BEDS, MULCH AND DUG EDGE ARE TO BE INSTALLED PER LANDSCAPE PLANS, DETAILS, AND MANUFACTURER'S RECOMMENDATIONS.
- REESTABLISH FINISH GRADES TO WITHIN ALLOWABLE TOLERANCES ALLOWING 3/4" FOR SOD AND 3" FOR MULCH IN PLANT BEDS. HAND RAKE ALL AREAS TO SMOOTH EVEN SURFACES FREE OF DEBRIS, CLODS, ROCKS, AND VEGETATIVE MATTER GREATER THAN 1".
- ALL PLANT BEDS, SHRUBS AND TREES SHALL BE MULCHED WITH 3" OF DARK BROWN, HARDWOOD MULCH, EXCEPT IF NOTED AS ROCK. DARK BROWN, HARDWOOD MULCH SHALL BE INSTALLED OVER DEWITT PRO 5 WEED CONTROL FABRIC IN PLANT BEDS ONLY.
- CONTRACTOR IS RESPONSIBLE FOR INITIAL WATERING UPON INSTALLATION.
- DUG EDGES ARE TO BE DUG WHERE MULCH BEDS ARE ADJACENT TO TURF AREAS. NO EDGING IS REQUIRED ADJACENT TO PAVEMENT OR CURB.
- THE EXACT LOCATION OF ALL UTILITIES, STRUCTURES, AND UNDERGROUND UTILITIES SHALL BE DETERMINED AND VERIFIED ON SITE BY THE LANDSCAPE CONTRACTOR PRIOR TO INSTALLATION OF THE MATERIALS. DAMAGE TO EXISTING UTILITIES AND/OR STRUCTURES SHALL BE REPLACED TO THEIR ORIGINAL CONDITION BY THE LANDSCAPE CONTRACTOR AT NO COST TO THE OWNER.
- LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND APPROVALS AND RECD INSPECTIONS BY LEGAL AUTHORITIES.
- PROVISIONS SHALL BE MADE FOR READILY ACCESSIBLE IRRIGATION WITHIN 100' MAX. OF ALL LANDSCAPED AREAS INCLUDING ALL PLANT BEDS, INDIVIDUAL TREES, AND TURF AREAS. ALL LAWN AREAS (AS SHOWN ON PLANS) WILL BE IRRIGATED BY AN AUTOMATIC SPRINKLER SYSTEM. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL IRRIGATION COMPONENTS, SLEEVING, PIPE, AND CONTROL. DESIGN DRAWINGS OF IRRIGATION SYSTEM SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- ANY SUBSTITUTIONS OR DEVIATIONS SHALL BE REQUESTED IN WRITING BY THE CONTRACTOR FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF PLANT MATERIALS. ALL PLANTS ARE TO BE LOCATED AS SPECIFIED ON DRAWINGS.

MAINTENANCE BY OWNER

- ALL SHRUBS ARE TO BE MAINTAINED IN THEIR NATURAL SHAPE TO ALLOW EVENTUAL GROWTH INTO A HEDGE.
- MAINTAIN NATURAL HABIT OF ALL SPECIFIED PLANT MATERIAL.
- NEW SOD TO BE THOROUGHLY WATERED UNTIL ROOTS "TAKE HOLD" OF SOD BED. CONTINUE WATERING AS REQUIRED, UNTIL COMPLETELY ESTABLISHED.

- IRRIGATION PERFORMANCE SPECIFICATION:
- THE FOLLOWING CRITERIA SHALL BE CONSIDERED MINIMUM STANDARDS FOR DESIGN AND INSTALLATION OF LANDSCAPE IRRIGATION SYSTEM:
- GENERAL - IRRIGATION SYSTEM TO INCLUDE DRIP IRRIGATION OF SHRUB BEDS ADJACENT TO BUILDINGS, SPRAY HEADS IN THE PARKING ISLANDS, AND ROTORS AROUND THE PERIMETER OF THE PARKING LOTS. HEADS SHALL THROW AWAY FROM BUILDING AND ACID SPRAYING OVER SIDEWALKS.
 - IRRIGATION SYSTEM SHALL CONFORM TO ALL INDUSTRY STANDARDS AND ALL FEDERAL, STATE AND LOCAL LAWS GOVERNING DESIGN AND INSTALLATION.
 - WATERLINE TYPW, SIZE LOCATION, PRESSURE AND FLOW SHALL BE FIELD VERIFIED PRIOR TO SYSTEM DESIGN AND INSTALLATION.
 - ALL MATERIALS SHALL BE FROM NEW STOCK FREE OF DEFECTS AND CARRY A MINIMUM ONE YEAR WARRANTY FROM THE DATE OF SUBSTANTIAL COMPLETION.
 - THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED IN SUCH A WAY THAT ALL SYSTEM COMPONENTS OPERATE WITHIN THE GUIDELINES ESTABLISHED BY THE MANUFACTURER.
 - LAWN AREA AND SHRUB BEDS SHALL BE ON SEPARATE CIRCUITS.
 - PROVIDE WATER TAP, METER SET, METER VAULT AND ALL OTHER OPERATIONS NECESSARY TO PROVIDE WATER FOR IRRIGATION SHALL CONFORM TO LOCAL WATER GOVERNING AUTHORITY GUIDELINES AND STANDARDS.
 - BACKFLOW PREVENTION SHALL BE PROVIDED IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS.
 - IRRIGATION CONTROLLER TO BE LOCATED IN UTILITY ROOM INSIDE BUILDING, AS IDENTIFIED BY OWNER.
 - IRRIGATION CONTROLLER STATIONS SHALL BE LABELED TO CORRESPOND WITH THE CIRCUIT IT CONTROLS.
 - CONTRACTOR SHALL PROVIDE TO THE OWNER WRITTEN OPERATION INFORMATION FOR ALL SYSTEM COMPONENTS.
 - CONTRACTOR SHALL PROVIDE TO THE OWNER ALL KEYS, ACCESS TOOLS, WRENCHES AND ADJUSTING TOOLS NECESSARY TO GAIN ACCESS, ADJUST AND CONTROL THE SYSTEM.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS TO THE OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
 - AN AUTOMATIC RAIN SHUT-OFF OR MOISTURE DEVICE SHALL BE INSTALLED.
 - INSTALL SCHEDULE 40 PVC SLEEVES UNDER ALL CURBS, PAVING AND SIDEWALKS. SLEEVES TO BE TWICE THE SIZE OF THE LINE IT HOUSES.
 - INSTALL MANUAL DRAIN VALVES AT LOWEST POSSIBLE ELEVATION ON IRRIGATION MAIN TO ALLOW GRAVITY DRAINING OF MAIN DURING WINTER MONTHS. PROVIDE QUICK COUPLERS AT MULTIPLE LOCATIONS TO ALLOW FOR EASY "BLOWING OUT" OF LATERAL AND MAIN LINES.
 - ZONES OR NOZZLES SHALL BE DESIGNED WITH MATCHED PRECIPITATION RATES.
 - MINIMUM LATERAL DEPTH IS 15" AND MAIN DEPTH IS 18".
 - SUBMIT DESIGN DRAWING WITH BID TO ALLOW OWNER TO EVALUATE SYSTEM. INCLUDE CUT SHEETS OF ALL COMPONENTS AND ZONE TABLE ILLUSTRATING FLOWS AND ANTICIPATED PRESSURE AT FURTHEST HEAD.
 - AN "AS-BUILT" SCALED DRAWING SHALL BE PROVIDED TO THE OWNER BY THE CONTRACTOR AND SHALL INCLUDE UT NOT BE LIMITED TO THE FOLLOWING:
 - AS CONSTRUCTED LOCATION OF ALL COMPONENTS
 - COMPONENT NAME, MANUFACTURER, MODEL INFORMATION, SIZE AND QUANTITY
 - PIPE SIZE AND QUANTITY
 - INDICATION OF SPRINKLER HEAD SPRAY PATTERN
 - CIRCUIT IDENTIFICATION SYSTEM
 - DETAILED METHOD OF WINTERIZED SYSTEM

SUBMIT AS-BUILT DRAWING IN FULL SIZE DRAWING FORM AS WELL AS PDF ELECTRONIC FORMAT. (SCANNING FULL SIZE COPY OF PLAN IS ACCEPTABLE IF IT CAN BE PRINTED TO SCALE.)

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Kansas
Engineering E-1695
Surveying LS-216
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Part Lots 2 and 3, Hamblen Plaza, Lots 1 thru 3
and
Part of the Northeast 1/4 of the Southeast 1/4 of
Section 8, Township 47 North, Range 31 West
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LANDSCAPE PLAN DETAILS
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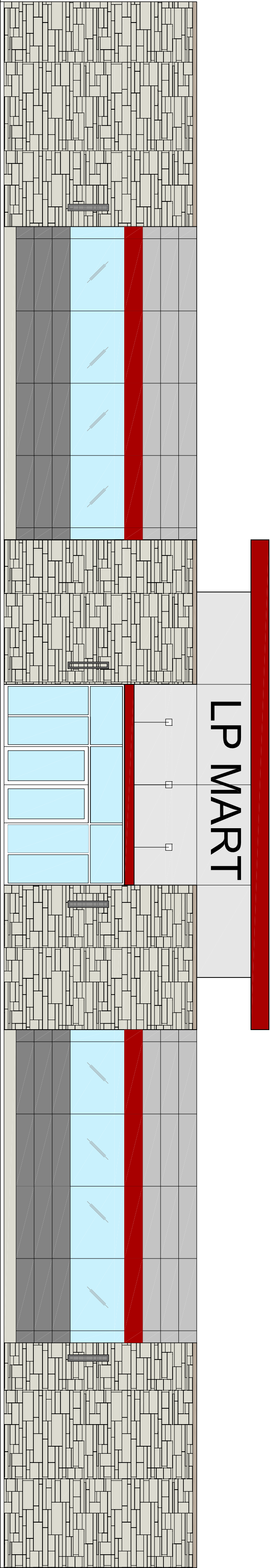
LION PETROLEUM CONVENIENCE STORE

HAMBLEEN PLAZA

LEE'S SUMMIT, MISSOURI

GENERAL NOTES

- CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS & INSPECTIONS REQUIRED FOR CERTIFICATE OF OCCUPANCY.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF FEDERAL, STATE, AND LOCAL CODES, LAWS, RULES, & REGULATIONS OF ALL LEGALLY CONSTITUTED PUBLIC AUTHORITIES HAVING JURISDICTION IN CASE OF CONFLICT BETWEEN REQUIREMENTS, THE MOST RESTRICTIVE SHALL APPLY.
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY SHORING AND BRACING AND BRACING IS REQUIRED UNTIL NEW STRUCTURAL MEMBERS ARE PERMANENTLY INSTALLED. WHETHER INDICATED ON THE DRAWINGS OR NOT, IF THE CONTRACTOR IS UNSURE WHETHER OR NOT TO PROVIDE TEMPORARY SHORING AND BRACING HE SHALL ASK THE ARCHITECT OR STRUCTURAL ENGINEER IN WRITING PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND CRITICAL DIMENSIONS PRIOR TO COMMENCEMENT OF WORK AND SHALL NOTIFY OWNER & ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. HIS VERIFICATION SHALL INCLUDE BUT NOT LIMITED TO LOCATION OF NEIGHBORING BUILDINGS, LINES OF SUPPORT, LOCATIONS OF ANCHOR BOLTS, HOLD DOWNS, EXISTING SITE CONDITIONS AND UTILITIES PRIOR TO ORDERING MATERIALS.
- CONTRACTOR TO VERIFY FIT & FINISH REQUIREMENTS FOR ALL PROJECT COMPONENTS WITH OWNER PRIOR TO ORDERING MATERIALS. REPORT CONFLICTING INFORMATION TO OWNER PRIOR TO PROCEEDING WITH WORK.
- CONTRACTOR SHALL DISPOSE OF ALL DEBRIS & CONSTRUCTION DEBRIS AS REQUIRED BY FEDERAL, STATE, AND LOCAL ORDINANCES.
- THE GENERAL CONTRACTOR SHALL ENSURE THAT ALL MATERIALS & METHODS ARE REQUIRED BY CODE, ARE TESTED BY INDEPENDENT LABORATORIES, AND THAT RESULTS ARE FURNISHED TO LOCAL BUILDING AUTHORITIES, OWNER, AND THE PROJECT CONSULTANTS IF REQUESTED.
- CONTRACTOR SHALL STENCIL LABEL ON ALL RATED WALLS IN CONCEALED AREAS THE FOLLOWING: "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS".
- BY THE USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE.
- CONTRACTOR SHALL COORDINATE THE WORK WITH ALL OTHER CONTRACTORS FURNISHING THE WORK. MATERIALS AND ALL WORK SO THAT THE WORK AS A WHOLE SHALL BE EXECUTED AND COMPLETED WITHOUT CONFLICTS. THE OWNER AND HIS CONSULTANTS SHALL NOT BE RESPONSIBLE FOR HOW THE WORK IS PERFORMED. SAFETY AND NEGLIGENT ACTS OR OMISSIONS BY THE GENERAL CONTRACTOR OR THE SUBCONTRACTORS ON THE JOB.
- CONTRACTOR SHALL COORDINATE THE REQUIREMENTS OF ANY AND ALL DRAWINGS INCLUDING ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER & ARCHITECT PRIOR TO ANY WORK.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACQUAINT HIMSELF WITH THE DIMENSIONS OF ALL EQUIPMENT INCLUDED IN THIS PROJECT SO THAT PREPARATIONS CAN BE MADE TO PROVIDE ENTRY INTO THE FACILITY WITH SUFFICIENT CLEARANCE, AND TO ENSURE THAT ADEQUATE FLOOR SPACE IS AVAILABLE.
- CONTRACTOR SHALL VERIFY GRADE DRAINAGES, LOCATIONS FOR ALL PARTITIONS, WALLS, CEILING, ETC. WILL BE DETERMINED BY DIMENSIONS ON THE DRAWINGS. ANY SUCH DIMENSIONS VARYING FROM THE PLANS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER & ARCHITECT IMMEDIATELY. ALL DIMENSIONS TO FACE OF STUD UNLESS OTHERWISE NOTED. "CLEAR" DENOTES FINISH TO FINISH DIMENSIONS.
- THE CONTRACTOR SHALL ADHERE TO THE DRAWINGS AND SPECIFICATIONS. SHOULD ANY ERROR OR INCONSISTENCY APPEAR REGARDING THE TRUE MEANING AND/OR INTENT OF THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL IMMEDIATELY REPORT SAME TO THE ARCHITECT WHO WILL MAKE ANY NECESSARY CLARIFICATION, INTERPRETATION, OR REVISION AS REQUIRED.
- IF THE CONTRACTOR DISCOVERS AN ERROR OR INCONSISTENCY AND PROCEEDS WITH WORK WITHOUT NOTIFYING THE OWNER & ARCHITECT OF ANY SUCH DISCREPANCIES, HE SHALL ASSUME ALL CHARGES AND HAVE ANY CHARGES TO HIS WORK PAID FOR NECESSARY BY HIS FAILURE TO OBSERVE AND/OR REPORT THE CONDITION.
- IF THE INTENT OF THE DRAWINGS & SPECIFICATIONS ARE UNCLEAR, THE CONTRACTOR SHALL ASK THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK. IN THE EVENT OF A WRITTEN REQUEST FOR INFORMATION, THE ARCHITECT SHALL THEN RESPOND IN WRITING TO ALL APPROPRIATE PARTIES.
- CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF WORK, MATERIALS & FINISHES, ETC. IN LEASED SPACE FROM LOSS, DAMAGE, FIRE, THEFT, ETC.
- WHEREVER THE TERM "EQUAL" IS USED, IT SHALL MEAN EQUAL PRODUCT AS APPROVED IN WRITING BY ARCHITECT.
- IF THE CONTRACTOR PROVIDES A MATERIAL OR EQUIPMENT SUBSTITUTION HE SHALL PROVIDE ALL APPROPRIATE DOCUMENTATION AND INFORMATION REQUIRED FOR THE ARCHITECT TO DETERMINE WHETHER OR NOT THE SUBSTITUTION IS EQUAL TO THE SPECIFICATION. ANY CHANGES TO THE DESIGN AFTER ISSUANCE OF A BUILDING PERMIT SHALL BE SUBMITTED TO THE RESIDING BUILDING AGENCY FOR APPROVAL BY THE GENERAL CONTRACTOR.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY MINIMAL FINISHING REQUIRED TO CARRY SHELF, HANGING, AND VANDAL LOADS, RAILINGS, ETC. AS PER PLANS AND CODES.
- PROVIDE SILL/GROE SEALANT AT ALL JOINTS AND INTERFACES OF ALL CONTRACTOR'S EQUIPMENT, WALLS, WINDOWS AND DOOR OPENINGS.
- PROJECT SHALL BE LEFT CLEANED AND POLISHED AFTER COMPLETION OF WORK.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL FOOD SERVICE EQUIPMENT AND COORDINATE LOCATION OF FLOOR SINKS, FLOOR DRAINS, SLOPES, LAB DISPOSITIONS AND RAISED CURBS, ELECTRICAL AND PLUMBING SUBS, QJIS, AND ALL OTHER WORK UNDER HIS SCOPE OF RESPONSIBILITY RELATED TO THE EQUIPMENT. REFER TO OWNER'S FOOD SERVICE EQUIPMENT SCHEDULE FOR SPECIFIC REQUIREMENTS & REFERENCES. EQUIPMENT DRAWINGS ARE INCLUDED FOR REFERENCE ONLY. ACTUAL SHOP DRAWINGS FOR THE SPECIFIC PROJECT MAY VARY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL WORK WITH THE REQUIREMENTS OF THE SCHEDULES FOR THE MATERIALS REPRESENTED BY SHOP DRAWINGS.
- CONTRACTOR IS RESPONSIBLE FOR RECEIVING, UNLOADING, UNCRATING, INSTALLATION AND MAKE-UP OF ALL FOOD SERVICE EQUIPMENT AND OTHER OWNER FURNISHED ITEMS AND DISPOSING OF ALL CARTONS.
- CONTRACTOR SHALL REFER TO THESE DOCUMENTS, AS WELL AS SPECIFICATIONS, FOR IDENTIFICATION OF ALL OWNER SUPPLIED ITEMS. CONTRACTOR SHALL VERIFY WITH OWNER PRIOR TO ORDERING WHICH ITEMS THE OWNER SHALL SUPPLY. ALL ITEMS NOT FURNISHED AS OWNER SUPPLIED ARE TO BE SUPPLIED BY THE CONTRACTOR. UNLESS NOTED OTHERWISE, ALL ITEMS ARE TO BE INSTALLED BY GENERAL CONTRACTOR.
- FINISH FLOOR FRIEZE CLASSIFICATION OF INTERIOR FINISHES SHALL CONFORM TO THE BUILDING CODE AND LOCAL GOVERNING BUILDING CODES/ORDINANCES.
- CONTRACTOR SHALL CONTACT THE LOCAL FIRE MARSHAL, AND PROVIDE AND INSTALL FIRE EXTINGUISHERS PER THE FIRE MARSHAL'S DIRECTION, INCLUDING TYPE, QUANTITY, AND LOCATION, AS A MINIMUM. CONTRACTOR SHALL PROVIDE FINE EXTINGUISHERS HAVING A RATING OF 7-A-B-20 FOR EVERY 3,000 SQ. FT. OF FLOOR AREA, AND TRAVEL DISTANCE TO AN EXTINGUISHER SHALL NOT EXCEED 75 FEET.
- FOR CONSTRUCTION DETAILS NOT SHOWN, USE THE MANUFACTURER'S STANDARD DETAILS OR APPROVED SHOP DRAWINGS/DATA SHEETS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- DOCUMENTS MARKED "BID DOCUMENTS" SHALL NOT BE USED FOR CONSTRUCTION.
- POST OCCUPANT LOAD SCHEDULED IN SPECIFICATIONS PER LOCAL GOVERNING AGENCY REQUIREMENTS.
- SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE ARCHITECT WHO SHALL REVIEW THEM AND PROVIDE A NOTATION INDICATING THAT DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THESE SUBMITTAL ITEMS MUST THEN BE SUBMITTED TO THE BUILDING OFFICIAL. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. DEFERRED SUBMITTALS ARE AS FOLLOWS:



CODE BLOCK

208 INTERNATIONAL BUILDING CODE
208 INTERNATIONAL MECHANICAL CODE
208 NATIONAL ELECTRICAL CODE
208 INTERNATIONAL PLUMBING CODE
208 INTERNATIONAL FIRE PROTECTION CODE
208 INTERNATIONAL ENERGY CONSERVATION CODE
UNIFIED DEVELOPMENT ORDINANCE SECTION 6.310

GAS STATION CANOPY USE GROUP:
CONSTRUCTION TYPE:

• UTILITY "U"
• TYPE 2B

BUILDING USE GROUP:
CONSTRUCTION TYPE:
FIRE PROTECTION:

• MERCANTILE "M"
• TYPE 2B
• NON-SPRINKLERED

PROPOSED BUILDING AREA (G-STORY)

• 6890 SF

AREA ALLOWED

• 7590 SF

CAR LIFT

• 110 SF

OCCUPANCY LOAD PER 1000L2:

M

MAIN AREA

M

COOLER AND STORAGE

1600/200 SF PER OCC

TOTAL

M

1600/200 SF PER OCC

TOTAL

M

1600/200 SF PER OCC

TOTAL EXIT DOOR WIDTH PER 1000L2:

12' X 0.2

REQUIRED / PROVIDED

22'4" / 08'

PROJECT DIRECTORY

OWNER
LION PETROLEUM INC
4931 LINCOLN BLVD
ST. LOUIS, MO 63108
PHONE: (314) 892-1118
E-MAIL: main@lionpetro.com

ARCHITECTS

RAMSDELL & ARCHITECTS
200 S. CENTRAL AVE, SUITE 203
ST. LOUIS, MO 63105
PHONE: (314) 593-6661
FAX: (314) 593-1310
E-MAIL: info@ramsdellandarchitects.com
CONTACT: SALLY RAMSDELL

CIVIL ENGINEERS

MEP ENGINEERS

STRUCTURAL ENGINEERS

SALPIT ENGINEERING GROUP LLC
1018 FAIRMARKE LINE
ST. LOUIS, MO 63146
PHONE: (314) 586-6699
FAX: (314) 586-5822
E-MAIL: info@salpiteng.com
CONTACT: DAVID SHAN
MEP ENGINEERS
JOAN ZEKND RE
CONSULTING ENGINEERS
1716 WHITE ROAD
CHESTERFIELD, MO 63001
PHONE: (314) 878-2250
FAX: (314) 878-2250
CONTACT: JOAN ZEKND

LIST OF DRAWINGS

SHEET	DESCRIPTION
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TITLE SHEET : CODE REVIEW

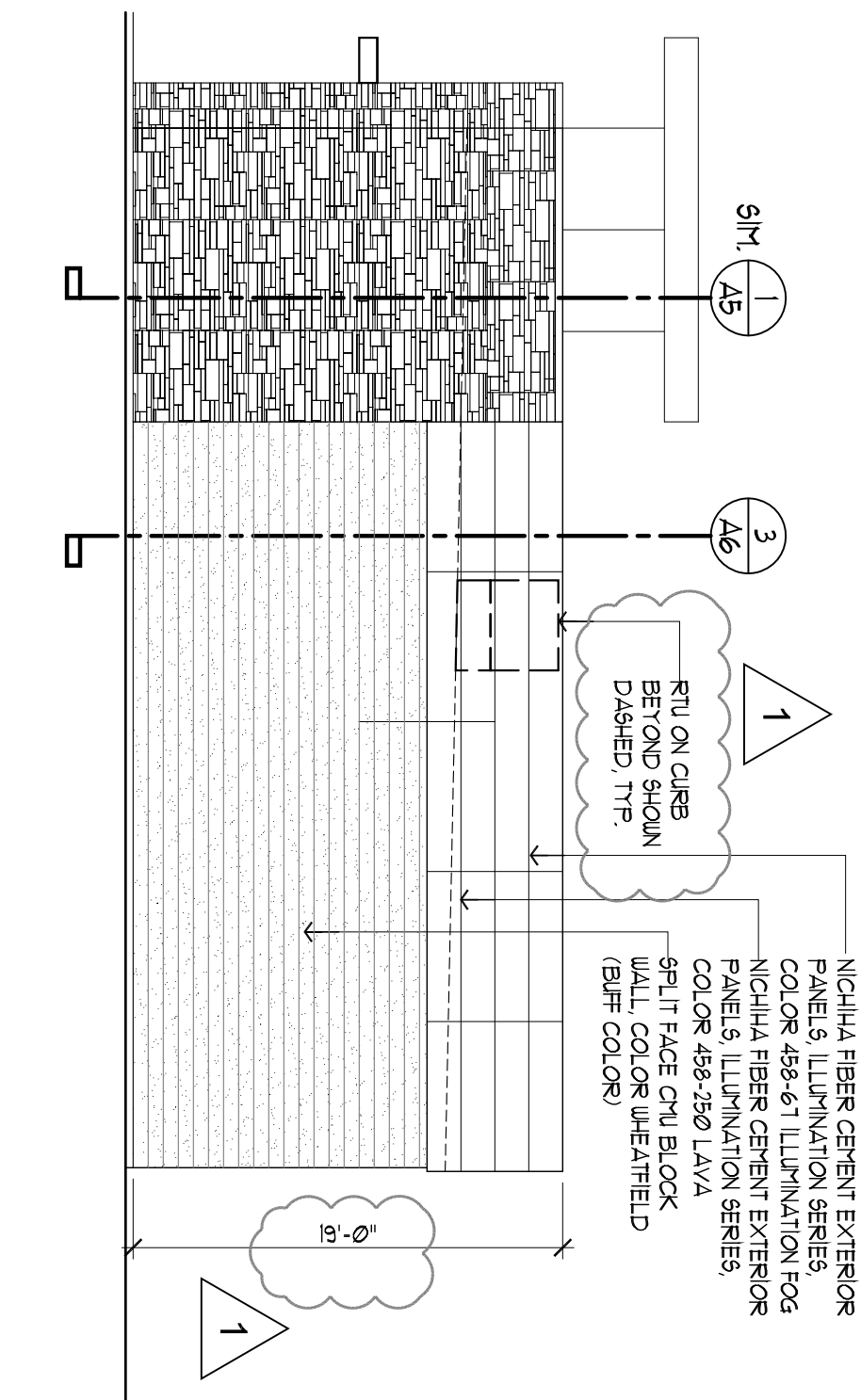
A-1 FLOOR PLAN, UNFURNISHED PLAN, RESTROOM ELEVATIONS
A-2 RC PLAN, ROOF PLAN, DETAILS
A-3 EXTERIOR ELEVATIONS, SCHEDULES
A-4 BUILDING SECTIONS, WALL SECTIONS
A-5 WALL SECTIONS
A-6

911 GENERAL NOTES & TYPICAL DETAILS
912 TYPICAL DETAILS
921 FOUNDATION PLAN
931 ROOF RAISING PLAN
941 ROOF DETAILS
951

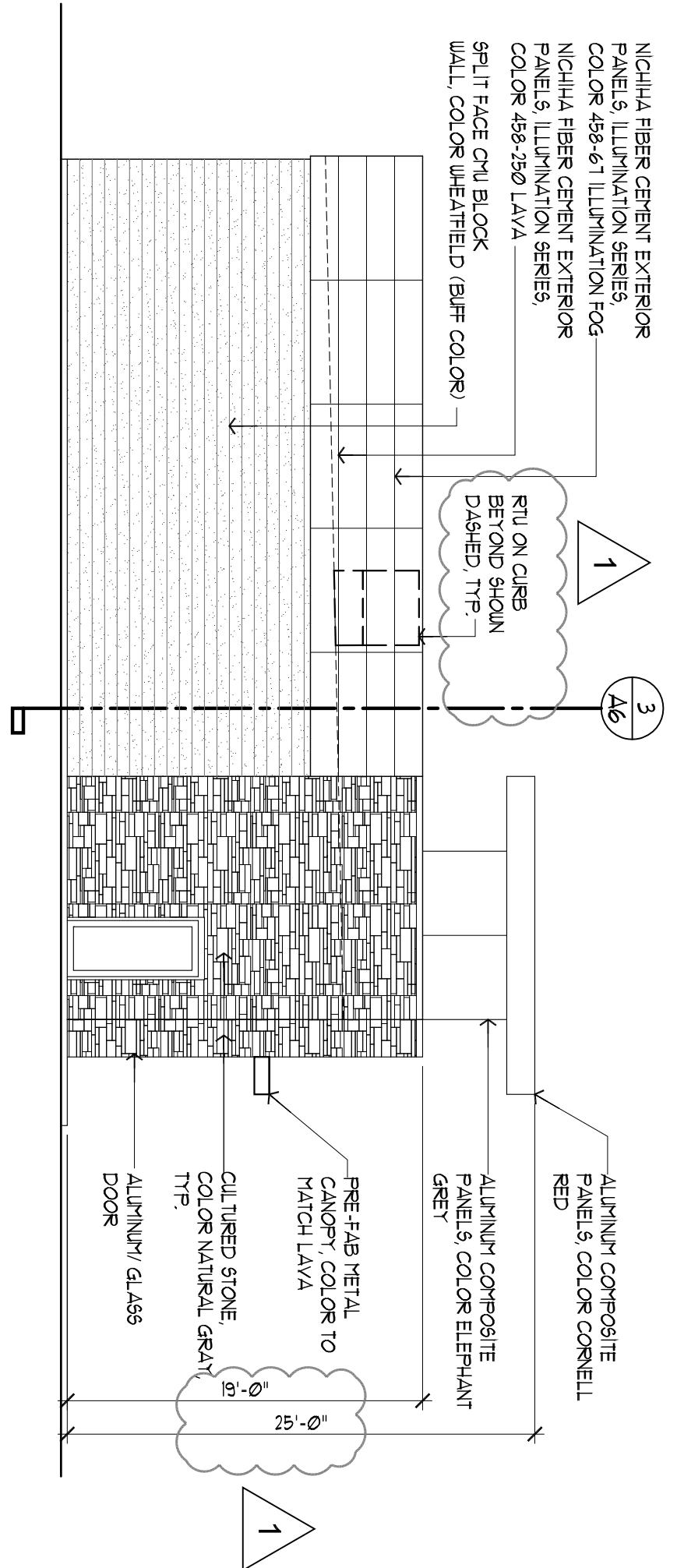
E-1 ELECTRICAL POWER PLAN
E-2 ELECTRICAL LIGHTING SCHEDULE
E-3 ELECTRICAL TYPICAL DETAILS
E-4 ELECTRICAL TYPICAL DETAILS
E-5 ELECTRICAL POWER BOARD SCHEDULE
E-6 ELECTRICAL SPECIFICATIONS
E-7

M-1 HVAC PLAN
M-2 MECHANICAL SCHEDULES
M-3 MECHANICAL DETAILS
M-4 MECHANICAL DETAILS
M-5

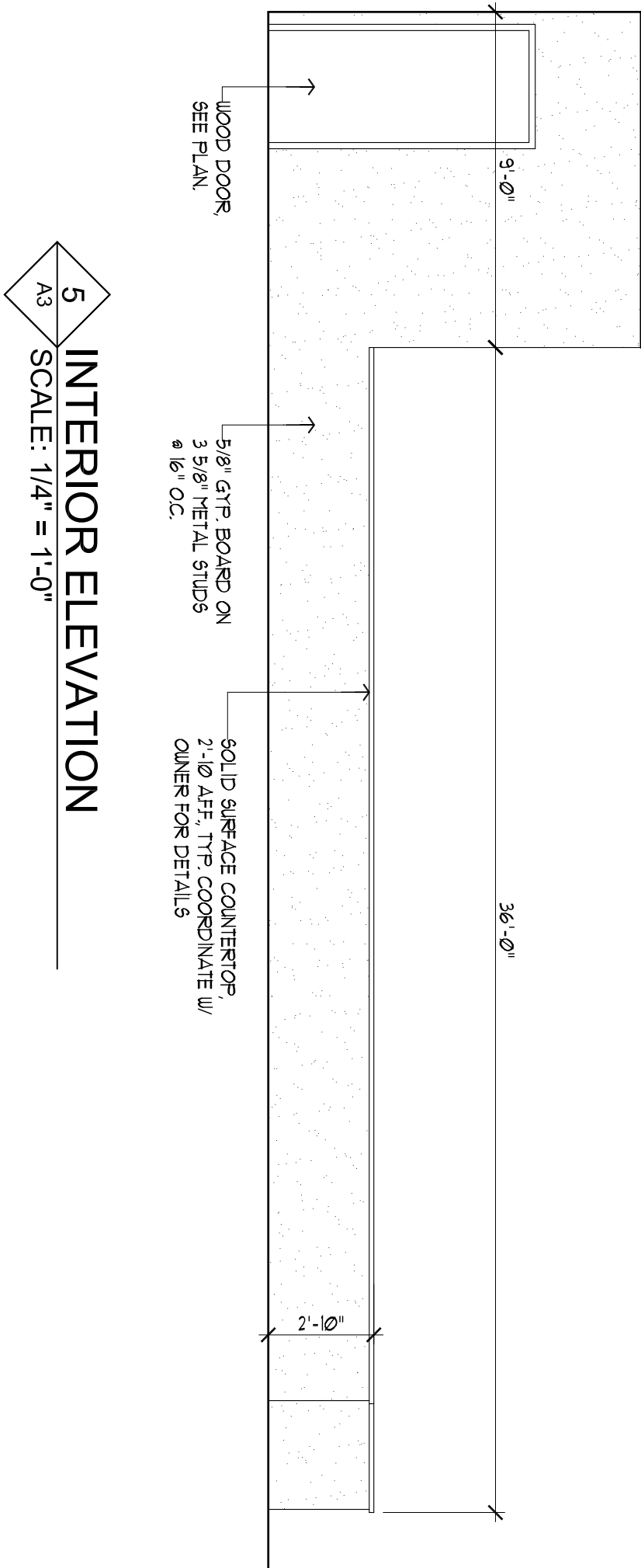
P-1 PLUMBING PLAN
P-2 PLUMBING DETAILS
P-3 PLUMBING DETAILS
P-4 PLUMBING SPECIFICATIONS
91-1 SITE LIGHTING



A3 SCALE: 1/8" = 1'-0"



SCALE: 1/8" = 1'-0"



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

DOOR HARDWARE

GROUP 1

- 1 CYLINDER AS REQUIRED
- 2 BALLBEAR AS REQUIRED TO BE BY DOOR SLEEPER
- 3 DOOR LATCHES AS REQUIRED
- 4 DOOR LATCHES AS REQUIRED
- 5 FINISH SHALL MATCH ALUMINUM DOOR

GROUP 2

- 1 EA HANGER 079-1 1/2X 14-156KD
- 2 EA LEVER LOCKER 053PD RODS 156KD
- 3 EA WULL 910F-407B 156KD

GROUP 3

- 1 EA HANGER 079-1 1/2X 14-156KD
- 2 EA DOOR CLOSER 0420B-156KD
- 3 EA FLOOR STOP 407B 156KD
- 4 EA DOOR CLOSER 0420B-156KD

GROUP 4

- 1 EA HANGER 079-1 1/2X 14-156KD
- 2 EA PUSH-PULL HANGAR 046E
- 3 EA WULL 910F-407B 156KD
- 4 EA DOOR CLOSER 0420B-156KD
- 5 35 KCS FLATE

GROUP 5

- 1 EA HANGER 079-1 1/2X 14-156KD
- 2 EA DOOR CLOSER 0420B-156KD
- 3 EA PIVIC DEVICE 0233AL UNIL ELEVOR 156KD
- 4 EA DOOR CLOSER 0420B-156KD
- 5 EA TRESHOLD AND DOOR SLEEP

GROUP 6

- 1 HAGER
- 2 SCH LAGE
- 3 VON DOPPE
- 4 SARENT

A3

DUP-	GRAVEL BOARD PLANT
CHU-	EXPOSED PAINTED CONCRETE BLOCK
GLZ-	GLAZING
CT-	CERAMIC TILE
CONC-	EXPOSED SEALED CONCRETE
VB-	4" VINYL BASE
FIBR-	FIBER REINFORCED PANEL.
STAIRS-	STAIRS STEEL PANEL AT HOOD LOCATION
AC-1	1" X 2" W/ 3/16" SURFING GRD. (117) 55 ASP/STROMG
AC-2	2" X 4" W/ 3/16" GRD. - CIRCLES (117) 55 ASP/STROMG
AC-3	1" X 4" W/ 3/16" GRD. - PLASTIC COATED TILES

A3



Catalog #: _____ Project: _____
Prepared By: _____ Date: _____ Type: _____

LifeStyle Medium (XDLM)

Outdoor Decorative Area Light



OVERVIEW	
Lumen Output Range	5,000 - 25,000
Wattage	39 - 196
Efficacy Range (LPW)	120 - 168
Fixture Weight lbs (kg)	36 (16.3)

QUICK LINKS

[Ordering Guide](#)
[Performance](#)
[Photometrics](#)
[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum crown.
- Wiring emerges from crown through compression seal fitting to prevent water entry. One-piece silicone gasket seals crown to shade for water- and dust-tight construction.
- Spun aluminum shade with two shade styles available: A - Angle and B - Bell.
- Brackets are extruded and cast aluminum assemblies or fabrications. All decorative elements are die cast or extruded aluminum.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight (in carton) - 36 lbs (16.3 kg).

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 5W and FT.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.

- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377.
- Minimum CRI of 70
- Integral louver (IL) option available for improved backlight control with minimal sacrifice to street side performance.

Electrical

- High-performance driver features overvoltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L80 Calculated Life: >100k Hours.
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +40°C (-40°F to +104°F).
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards.

Controls

- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via iOS or Android configuration app.

Installation

- Classic Hook (CH) and Side Arm available. See Steel Round Pole and Aluminum Round Pole data sheets for pole selection information.
- Classic hook mount requires a 4" O.D. pole or tenon.
- Side Arm pole mount utilizes LSI's traditional B3 drill pattern.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet locations.
- IP65 rated Luminaire per IEC 60598-1.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)

Specifications and dimensions subject to change without notice.



Submitted by C&O SALES	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: XDLM A FT LED HO NW UE BRZ SA5S Notes:	Type: S4 COSKC22-25951
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Type: _____

Lifestyle Medium - XDLM

ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: **XDLM B 3 LED SS NW UE BLK CH S PC120**

Prefix	Shade	Distribution	Light Source	Lumen Package	Color Temp	Voltage	Finish
XDLM - LifeStyle Medium	A - Angle B - Bell	2 - Type 2 3 - Type 3 5 - Type 5 FT - Type 4 (Forward Throw)	LED	VLW - 5,000 lms LW - 8,000 lms SS - 12,000 lms HO - 18,000 lms VHO - 25,000 lms Custom Lumen Packages ¹	CW - 5,000K CCT NW - 4,000K CCT WW - 3,000K CCT	UE - Universal Voltage (120 - 277V) 347-480 - High Voltage (347-480V)	BLK - Black BRZ - Bronze WHT - White GPT - Graphite GMG - Gun Metal Grey MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green
Mounting Style ^{2,3}		Mounting Configuration ^{2,3}		Controls		Options	
CH - Classic Hook SA4 - Side Arm Mount for 4" O.D. Round Poles ⁴ SA5 - Side Arm Mount for 5" O.D. Round Poles ⁴		S - Single D180 - Double @ 180° D90 - Double @ 90° ⁵ T90 - Triple @ 90° ⁵ TN120 - Triple @ 120° ⁵ Q90 - Quad ⁵ W - Wall Mount		IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor max 8-24' mounting height ⁶ IMSBT2 - Integral Bluetooth™ Motion and Photocell Sensor max 25-40' mounting height ⁶ ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' MH) ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' MH)		IL - Integral Louver Shield	

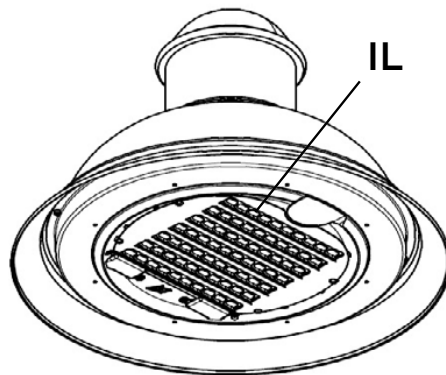
Accessory Ordering Information

Description	Order Number
Single Fusing (120V)	FK120 ⁷
Single Fusing (277V)	FK277 ⁷
Double Fusing (480V)	DFK480 ⁷
Double Fusing (347V)	DFK347 ⁷

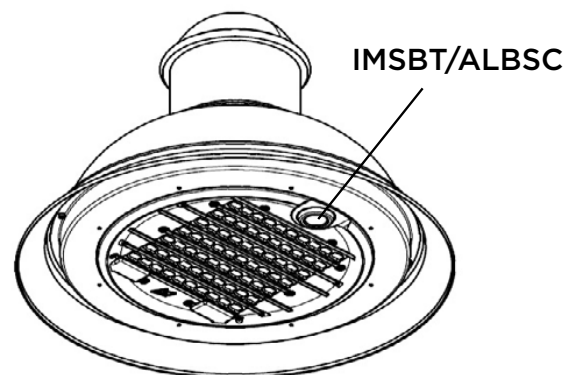
FOOTNOTES:


- Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
- When ordering a multiple configuration (D180, etc.) order one fixture/bracket configuration per pole - i.e. order one XDLM B 3 LED SS CW UE BLK CH D180 PC120 to receive two fixtures and one CH D180 bracket (see drawing on this page). See STEEL ROUND POLES and ALUMINUM ROUND POLES data sheets for pole ordering information.
- See Lifestyle Bracket ordering chart for Mounting Style/Configurations availability.
- B3 drilling pattern required.
- For use with SA4 and SA5 mounting styles only.
- IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store. Consult Factory for 347-480V.
- Fusing must be located in the hand hole of pole.

Fixture Shown With Integral Louver



Fixture Shown With Integral Sensor



Submitted by		Catalog Number: XDLM A FT LED HO NW UE BRZ SA5S Notes:	Type: S4 COSKC22-25951
	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA		



Type: _____

Lifestyle Medium - XDLM

PERFORMANCE

[Back to Quick Links](#)

DELIVERED LUMENS*												
Lumen Package	Distribu- tion	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
VLW	2	70	5429	138	B2-U0-G2	5825	148	B2-U0-G2	6104	155	B2-U0-G2	39
	3		5547	141	B1-U0-G2	5951	151	B1-U0-G2	6236	159	B1-U0-G2	
	5W		5462	139	B1-U0-G2	5860	149	B1-U0-G2	6141	156	B1-U0-G2	
	FT		5158	131	B3-U0-G1	5534	140	B3-U0-G1	5799	147	B3-U0-G1	
LW	2	70	7853	146	B2-U0-G2	8426	156	B2-U0-G2	8829	164	B2-U0-G2	54
	3		8023	149	B2-U0-G2	8608	160	B2-U0-G2	9020	168	B2-U0-G2	
	5W		7901	148	B2-U0-G2	8477	158	B2-U0-G2	8883	166	B2-U0-G2	
	FT		7461	138	B3-U0-G2	8005	148	B3-U0-G2	8388	155	B3-U0-G2	
SS	2	70	11780	145	B3-U0-G3	12638	155	B3-U0-G3	13244	163	B3-U0-G3	82
	3		12034	148	B2-U0-G2	12912	159	B2-U0-G2	13530	166	B2-U0-G2	
	5W		11850	146	B2-U0-G2	12714	156	B2-U0-G2	13323	164	B2-U0-G2	
	FT		11191	138	B4-U0-G2	12007	147	B4-U0-G2	12582	154	B4-U0-G2	
HO	2	70	17912	135	B3-U0-G3	19218	144	B3-U0-G3	20138	151	B3-U0-G3	134
	3		18300	137	B3-U0-G3	19634	147	B3-U0-G3	20574	154	B3-U0-G3	
	5W		18020	135	B3-U0-G3	19334	145	B3-U0-G3	20260	152	B3-U0-G3	
	FT		17017	127	B4-U0-G2	18258	136	B4-U0-G2	19132	143	B4-U0-G2	
VHO	2	70	24625	127	B4-U0-G3	26420	135	B4-U0-G3	27685	142	B4-U0-G3	196
	3		25157	129	B3-U0-G4	26991	138	B3-U0-G4	28284	145	B3-U0-G4	
	5W		24773	127	B3-U0-G4	26579	136	B3-U0-G4	27852	143	B3-U0-G4	
	FT		23395	120	B5-U0-G3	25100	128	B5-U0-G3	26302	134	B5-U0-G3	

*LEDs are frequently updated therefore values are nominal

ELECTRICAL DATA*						
Lumens	120V	208V	240V	277V	347	480V
VLW	0.33	0.19	0.16	0.14	0.11	0.08
LW	0.45	0.26	0.23	0.19	0.16	0.11
SS	0.68	0.39	0.34	0.30	0.24	0.17
HO	1.12	0.64	0.56	0.48	0.39	0.28
VHO	1.63	0.94	0.82	0.71	0.56	0.41

*Electrical data is 25° C (77° F). Actual wattage differ by +/-10%.

RECOMMENDED LUMEN MAINTENANCE (1)					
Ambient Temp	Lumen Multiplier				
	0 hrs. (2)	25K hrs. (2)	50K hrs. (2)	75K hrs. (3)	100K hrs. (3)
0C - 40 C	98%	97%	97%	96%	96%

1 - Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.

2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X)the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).

3 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).





Type: _____

Lifestyle Medium - XDLM

PHOTOMETRICS

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Luminaire photometry has been conducted by a NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See <http://www.lsi-industries.com/products/led-lighting-solutions.aspx> for detailed photometric data.

XDLM 2 VHO NW

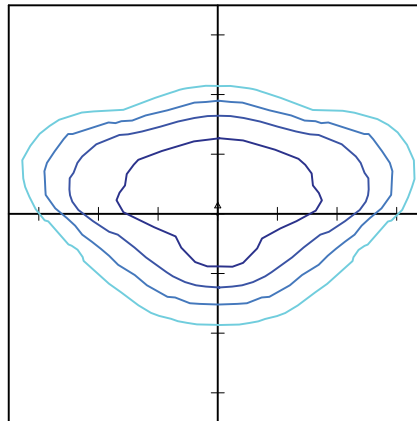
LUMINAIRE DATA

Type 2 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	26,348
Watts	193.8
Efficacy	136
IES Type	Type II - Short
BUG Rating	B4-U0-G3

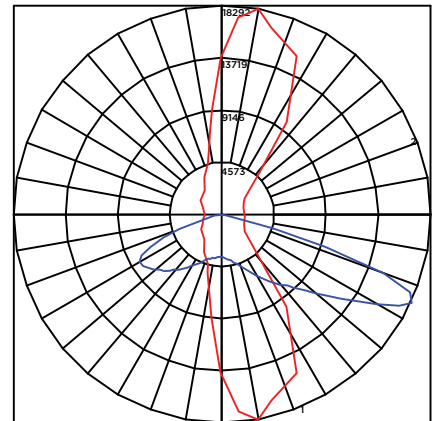
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	3565	14%
Medium (30-60)°	15099	57%
High (60-80)°	7367	28%
Very High (80-90)°	318	1%
Uplight (90-180)°	0	0%
Total Flux	26348	100%

ISO FOOTCANDLE



POLAR CURVE



20' Mounting Height/20' Grid Spacing

■ 5 FC ■ 2FC ■ 1 FC ■ .5 FC

XDLM 3 VHO NW

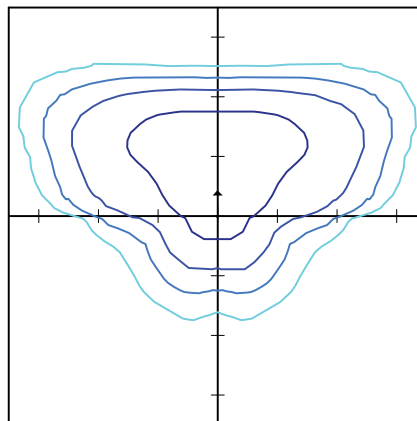
LUMINAIRE DATA

Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	26,970
Watts	194.1
Efficacy	139
IES Type	Type III - Short
BUG Rating	B3-U0-G4

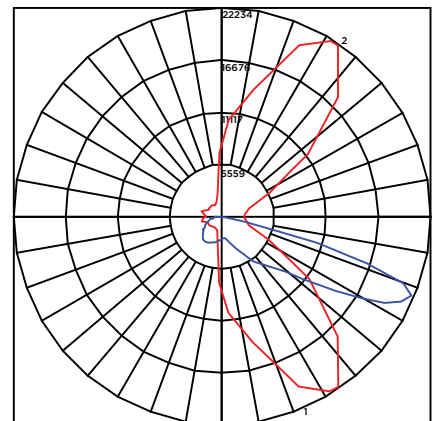
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	2567	10%
Medium (30-60)°	13606	50%
High (60-80)°	10406	39%
Very High (80-90)°	390	1%
Uplight (90-180)°	0	0%
Total Flux	26970	100%

ISO FOOTCANDLE



POLAR CURVE



20' Mounting Height/20' Grid Spacing

■ 5 FC ■ 2FC ■ 1 FC ■ .5 FC





Type: _____

Lifestyle Medium - XDLM

PHOTOMETRICS

XDLM FT VHO NW

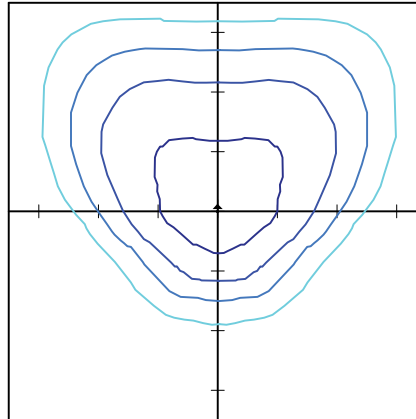
LUMINAIRE DATA

Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	26,930
Watts	194.1
Efficacy	139
IES Type	Type IV - Short
BUG Rating	B3-U0-G4

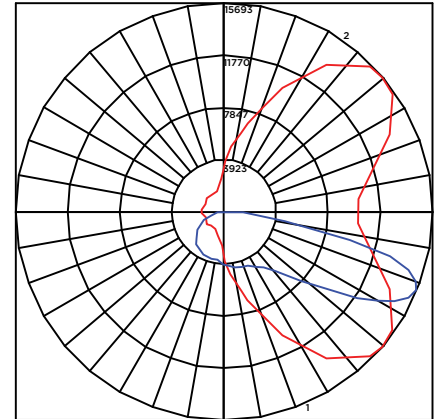
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	3528	13%
Medium (30-60)°	12071	45%
High (60-80)°	10668	40%
Very High (80-90)°	663	%
Uplight (90-180)°	0	0%
Total Flux	26930	100%

ISO FOOTCANDLE



POLAR CURVE



20' Mounting Height/20' Grid Spacing

■ 5 FC ■ 2FC ■ 1 FC ■ .5 FC

XDLM 5 VHO NW

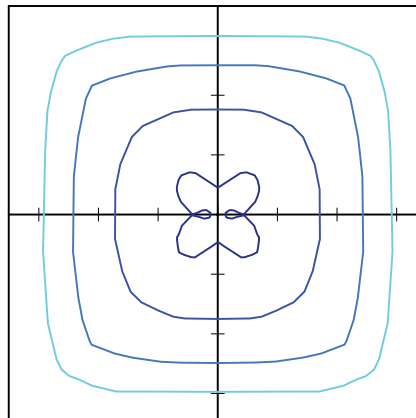
LUMINAIRE DATA

Type 5 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	26,015
Watts	194.4
Efficacy	134
IES Type	Type VS - Short
BUG Rating	B5-U0-G3

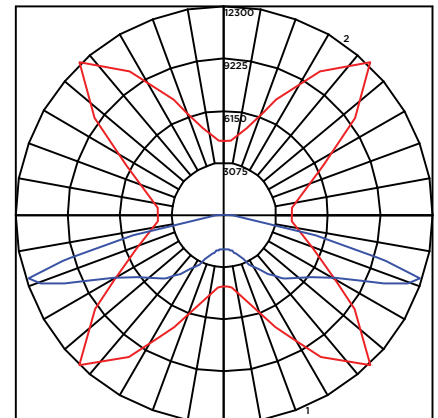
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	2156	8%
Medium (30-60)°	11089	42%
High (60-80)°	12445	47%
Very High (80-90)°	325	1%
Uplight (90-180)°	0	0%
Total Flux	26015	100%

ISO FOOTCANDLE



POLAR CURVE



20' Mounting Height/20' Grid Spacing

■ 5 FC ■ 2FC ■ 1 FC ■ .5 FC

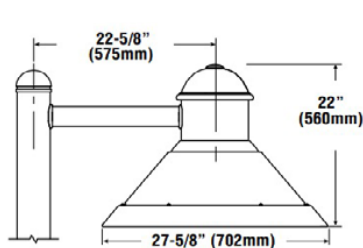




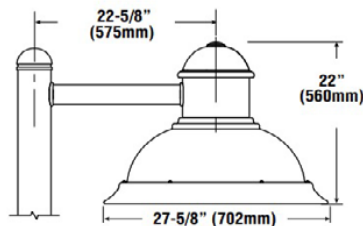
Type: _____

Lifestyle Medium - XDLM

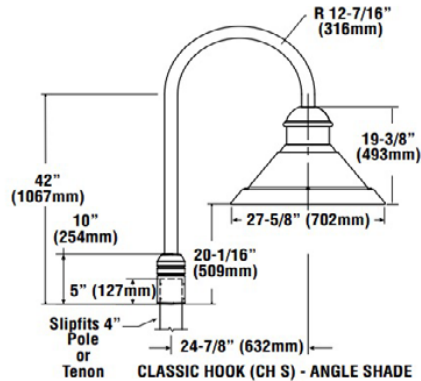
PRODUCT DIMENSIONS

[Back to Quick Links](#)


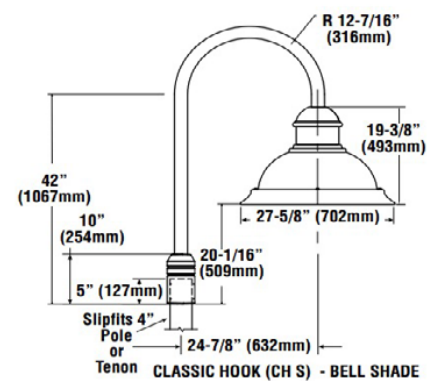
SIDE ARM (SA4 S) - ANGLE SHADE



SIDE ARM (SA4 S) - BELL SHADE

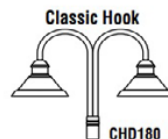


CLASSIC HOOK (CH S) - ANGLE SHADE

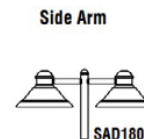


CLASSIC HOOK (CH S) - BELL SHADE

See Lifestyle Brackets and Mounts in outdoor section of latest Buyers Guide for details on other bracket sizes.



Classic Hook



Side Arm



SAW

LUMINAIRE EPA CHART - XDLM	
Single	1.8
D180°	3.1
D90°	2.7
T90°	4.0
TN120°	4.0
Q90°	4.9
Note: Includes Bracket	

CONTROLS

Integral Bluetooth™ Motion and Photocell Sensor (IMSBT)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.


[Click here to learn more about IMSBT.](#)

AirLink Blue

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more about AirLink Blue.](#)



Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: XDLM A FT LED HO NW UE BRZ SA5S Notes:	Type: <div>S4</div> COSKC22-25951
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Type: _____

Lifestyle Medium - XDLM

POLES & BRACKETS

LSI offers a full line of poles and mounting accessories to complete your lighting assembly. Aluminum and steel in both square and round shafts. In addition, LSI offers round tapered, fluted and hinge based poles. Designed and engineered for durability and protected with our oven baked DuraGrip Protection System. Also available with our DuraGrip+ Protection system for unmatched corrosion resistance and an extended warranty. American made in our Ohio facility with industry leading lead times.

[Click here to learn more details about poles & brackets.](#)



DECORATIVE BASE COVER Round Straight

Optional decorative base cover has a two-piece die cast construction with stainless steel fasteners. Base cover is polyester powder coated to match pole. GBC base cover fits 4" and 5" diameter straight round poles. Includes 4" round pole adaptor molded from black silicone rubber.



SPUN ALUMINUM COLLAR Round Straight

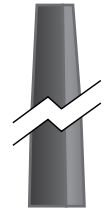
Optional one-piece spun aluminum collar for 4" or 5" diameter straight round poles. Features durable, high quality construction with aesthetically pleasing design that slips over the pole for increased theft deterrent.



Square
Pole
14'-39'




Round
Pole
10'-30'



Tapered
Pole
20'-39'



Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: 5RP B3 S07G25 S BRZ Notes:	Type: <div>S4</div> COSKC22-25951
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Catalog # : _____ Project : _____

Prepared By : _____ Date : _____

Steel Poles

Round Straight



QUICK LINKS

[Ordering Guide](#)
[Configurations](#)
[Dimensions](#)
[EPA](#)

FEATURES & SPECIFICATIONS

Pole Shaft

- Steel round poles are 4" or 5" in diameter.
- Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 46,000 psi.
- On Tenon Mount steel poles, tenon is high-strength pipe. Tenon N option is 2-3/8" O.D. x 4-3/4" tall. Tenon 4N option is 4" O.D. x 4-7/8" tall.

Hand-Hole

- Standard hand-hole location is 12" above pole base.
- Poles 18' and above have a 3" x 6" reinforced hand-hole. Shorter poles have 2" x 4" non-reinforced hand-hole.

Base

- Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi.
- Two-piece square base cover is optional. Decorative base cover is also available.

Anchor Bolts

- Poles are furnished with anchor bolts featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional.
- Anchor bolts conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 psi.

Ground Lug

- Ground lug is standard.

Duplex Receptacle

- Weatherproof duplex receptacle is optional.

Ground Fault Circuit Interrupter

- Self-testing ground fault circuit interrupter is optional.

Finishes

- Every pole is provided with the DuraGrip® Protection System and a 5-year limited warranty:
- When the top-of-the line DuraGrip® Plus Protection System is selected, in addition to the DuraGrip® Protection System, a non-porous, automotive-grade corrosion coating is applied to the lower portion of the pole interior, sealing and further protecting it from corrosion. This option extends the limited warranty to 7 years.

Determining The Luminaire/Pole Combination For Your Application:

- Select luminaire from luminaire ordering information
- Select bracket configuration if required
- Determine EPA value from luminaire/ bracket EPA chart
- Select pole height

- Select MPH to match wind speed in the application area (See windspeed maps).
- Confirm pole EPA equal to or exceeding value of luminaire/bracket EPA
- Consult factory for special wind load requirements and banner brackets


Pole Vibration Damper

- A pole vibration damper is recommended in open terrain areas of the country where low steady state winds are common.
- Non-tapered poles and lightly loaded poles are more susceptible to destructive vibration if a damper is not installed.

Listings

- UL Listed
- BAA/TAA Compliant



Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: 5RP B3 S07G25 S BRZ Notes:	Type: <div style="font-size: 2em; font-weight: bold;">S4</div> COSKC22-25951
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Steel Poles - Round Straight

ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: **5RP B3 S07G 24 S PLP DGP**

Pole Series	Mounting Method	Material	Height ⁴	Mounting Configuration	Pole Finish	Options
4RP- 4" Diameter Round Straight Pole 5RP - 5" Diameter Round Straight Pole	Bolt-On Mount ¹ - See pole selection guide for patterns and fixture matches. B5 - 5" Traditional Drilling Pattern B3 - 3" Reduced Drilling Pattern B2 - 2" Reduced Drilling Pattern	S11G – 11 Ga. Steel (5RP only)	8'	S – Single/Parallel D180 – Double D90 – Double DN90 – Double T90 – Triple TN120 – Triple Q90 – Quad QN90 – Quad	BRZ – Bronze BLK – Black PLP – Platinum Plus WHT – White SVG – Satin Verde Green GPT – Graphite MSV – Metallic Silver BZA – Alternate Bronze	GA – Galvanized Anchor Bolts SF – Single Flood ⁶ DF – Double Flood ⁶ DGP – DuraGrip [®] Plus LAB – Less Anchor Bolts
		S10G – 10 Ga. Steel (4RP only)	10'			
		S07G – 07 Ga. Steel (5RP only)	12'			
			14'			
			15'			
			16'			
			17'			
			17' 6"			
			18'			
			20'			
		22'				
		22' 6"				
		24'				
		25'				
		26'				
		27'				
		28'				
		30'				
		Height Restriction, Consult Pole Selection Chart on opposite page				

Accessory Ordering Information

Description	Order Number	Description	Order Number
4" SRBC Square Base Cover	158450CLR	MH3 - Mounting Hole Plugs for use with 3" reduced drill pattern (3 sets of 3 plugs)	681126
5" SRBC Square Base Cover	158451CLR	MH2 - Mounting Hole Plugs for use with 2" reduced drill pattern (3 sets of 3 plugs)	725841
4" /5" GBC Decorative Base Cover	483859CLR	BB - Banner Brackets	Consult Factory for EPA calculations
ER2 – Weatherproof Duplex Receptacle (Poles below 18')	122557CLR		
ER2 – Weatherproof Duplex Receptacle for Reinforced Hand-hole (Poles 18' and above)	122566CLR		
GFI – Ground Fault Circuit Interrupter (Poles below 18')	122558CLR		
GFI – Ground Fault Circuit Interrupter for Reinforced Hand-hole (Poles 18' and above)	22567CLR		
MH5 - Mounting Hole Plugs for use with 5" traditional drill pattern (3 set of 3 plugs)	132336		

FOOTNOTES:

- See Area Light Brackets - 3" Reduced Drill Pattern and Area Light Brackets - 5" Traditional Drill Pattern spec sheets.
- For Enterprise and Lexington PT mounting configuration styles, see Tenon Mount (4N) and Greenlee Slipfit Pole Series (4RPI).
- Standard flat black pole cap provided. Domed Greenlee pole cap will ship with SA4 and SA5 Enterprise and Lexington fixtures, SA Lifestyle fixtures, BK SPT BO, BK MPT BO and UCL brackets.

- Pole heights will have a +/- 1/2" tolerance. Max height for 4RP S10G is 24'. Max height of the 5RP S11G is 26'.
- For Enterprise and Lexington D180 or other mounting configuration styles using BK SPT BO and BK MPT BO accessories, see chart on Bolt-on Mount 4RPB3 / 5RPB3 DRILLING PATTERN section on pole selection chart.
- See Flood Lighting Brackets section for choice of FBO brackets.



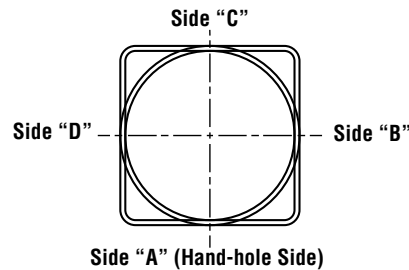


Steel Poles - Round Straight

DRILLING LOCATIONS

[Back to Quick Links](#)

Sides	A	B	C	D
Hand-hole	X			
Single	X			
D180		X		X
D90	X			X
DN90 ¹				
T90	X	X		X
TN120 ²				
Q90	X	X	X	X
QN90 ³				
Single FBO	X			
Double FBO		X		X

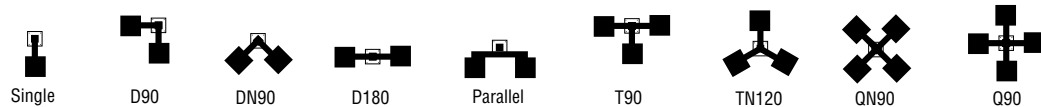


NOTES:

- 1 - Two locations will be 45° to the left and right of Side A.
- 2 - Other two locations will be 120° to the left and right of Side A.
- 3 - Two locations will be 45° to the left and right of Side A and two locations will be 135° to the left and right of Side A.

Consult factory for custom variations. Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 20' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.

FIXTURE CONFIGURATIONS



BOLT CIRCLE

	4" (102mm) Round 10-1/8" (257mm) sq. 11" (279mm) Dia. Bolt Circle	5" (127mm) Round 10-1/8" (257mm) sq. 11" (279mm) Dia. Bolt Circle	5" (127mm) Round 10-1/8" (257mm) sq. 11" (279mm) Dia. Bolt Circle
Bolt Circle Designator	L	L	M
Bolt Circle	Slotted 11" (279mm)	Slotted 11" (279mm)	Slotted 11" (279mm)
Anchor Bolt Size	3/4" x 30" (19mm x 762mm)	3/4" x 30" (19mm x 762mm)	1" x 36" (25mm x 914mm)
Anchor Bolt Projection	3-1/4" (83mm)	3-1/4" (83mm)	4" (102mm)
Base Plate Opening for Wireway Entry	3-5/8" (92mm)	4-3/4" (121mm)	4-5/8" (117mm)
Base Plate Dimensions	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 1" thk. (257mm x 25mm)
Pole Gauge	10	11	7

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the appropriate anchor bolt template.

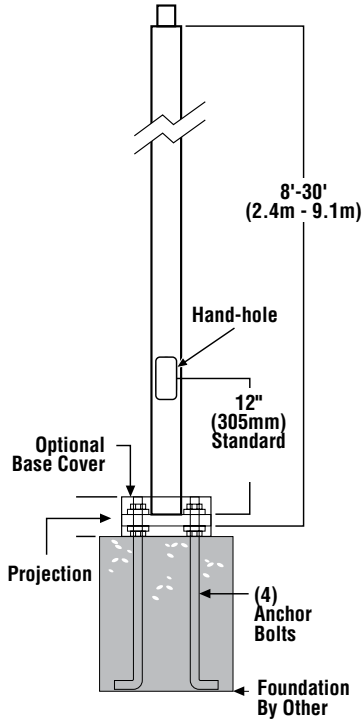




Steel Poles - Round Straight

PRODUCT DIMENSIONS

RPT –
N = 2-3/8"(60mm) O.D. x 4-3/4"(121mm) Tenon
4N = 4"(102mm) O.D. x 4-7/8"(124mm) Tenon
4N6 = 4"(102mm) O.D. x 6-3/8"(162mm) Tenon

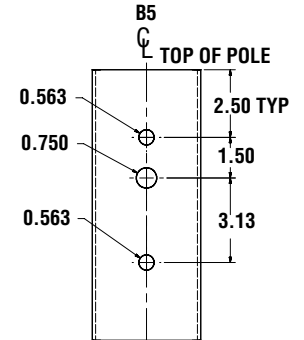
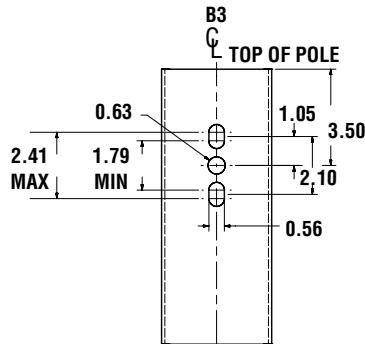
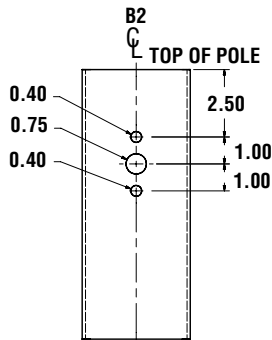



SHIPPING WEIGHTS	
4"(102mm) Dia. 10 Ga. is approximately	6.0 lbs./ft.
5"(127mm) Dia. 11 Ga. is approximately	7.0 lbs./ft.
5"(127mm) Dia. 07 Ga. is approximately	10.0 lbs./ft.
Anchor Bolts (3/4" x 30")(19mm x 762mm)	15 lbs.(7kg)/set
Anchor Bolts (1" x 36")(125mm x 914mm)	30 lbs.(14kg)/set

SF –
Single Flood
Pole Preparation



Bolt-On Mount 2-Bolt Pattern



Submitted by		Catalog Number:	Type:
	Job Name:	5RP B3 S07G25 S BRZ	S4 COSKC22-25951
	LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Notes:	



Steel Poles - Round Straight

WIND SPEED

EPA Information

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

CAUTION: This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Industries cannot accept responsibility for harm or damage caused in these situations.

NOTE: Pole calculations include a 1.3 gust factor over steady wind velocity. Example: poles designed to withstand 80 MPH steady wind will withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI for other areas. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory.

Use ONLY with "Wind Speed Map for ASCE 7-10

POLE¹	Mtg. Height Length (ft)	Wall Thick (ga)	BOLT CIRCLE			EPA								
			Designator	Dia. (in)	Anchor bolt Dia (in)	110 MPH	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH
4" x 10-ga x 14'	14	10	L	11	0.75	6.0	5.2	4.7	3.9	3.2	2.7	2.3	2.0	1.7
4" x 10-ga x 16'	16	10	L	11	0.75	4.3	3.7	3.2	2.6	2.1	1.8	1.4	1.2	1.0
4" x 10-ga x 18'	18	10	L	11	0.75	7.7	6.8	6.0	5.0	4.2	3.5	3.0	2.5	2.2
4" x 10-ga x 20'	20	10	L	11	0.75	6.0	5.2	4.6	3.7	3.1	2.5	2.1	1.8	1.5
4" x 10-ga x 22'	22	10	L	11	0.75	4.6	3.9	3.3	2.6	2.1	1.7	1.4	1.1	0.9
4" x 10-ga x 24'	24	10	L	11	0.75	3.4	2.7	2.2	1.7	1.3	1.0	0.7	0.5	n/a
5" x 11-ga x 16'	16	11	L	11	0.75	8.7	7.9	7.2	6.0	5.0	4.3	3.7	3.2	2.8
5" x 11-ga x 18'	18	11	L	11	0.75	12.2	11.1	10.1	8.5	7.2	6.1	5.3	4.6	4.0
5" x 11-ga x 20'	20	11	L	11	0.75	10.0	9.1	8.2	6.8	5.7	4.9	4.2	3.6	3.1
5" x 11-ga x 22'	22	11	L	11	0.75	8.1	7.3	6.6	5.5	4.5	3.8	3.2	2.8	2.4
5" x 11-ga x 24'	24	11	L	11	0.75	6.5	5.9	5.3	4.3	3.5	2.9	2.4	2.0	1.7
5" x 11-ga x 26'	26	11	L	11	0.75	5.2	4.6	4.1	3.2	2.6	2.1	1.7	1.4	1.1
5" x 7-ga x 18'	18	7	M	11	1.00	19.7	17.9	16.4	13.8	11.7	10.1	8.8	7.7	6.8
5" x 7-ga x 20'	20	7	M	11	1.00	16.5	15.0	13.7	11.5	9.8	8.4	7.3	6.3	5.6
5" x 7-ga x 22'	22	7	M	11	1.00	14.0	12.7	11.5	9.6	8.1	7.0	6.0	5.2	4.6
5" x 7-ga x 24'	24	7	M	11	1.00	11.8	10.6	9.6	8.0	6.8	5.7	4.9	4.2	3.7
5" x 7-ga x 26'	26	7	M	11	1.00	9.9	8.9	8.0	6.7	5.6	4.7	4.0	3.4	2.9
5" x 7-ga x 28'	28	7	M	11	1.00	8.3	7.4	6.7	5.4	4.5	3.7	3.1	2.7	2.3
5" x 7-ga x 30'	30	7	M	11	1.00	6.8	6.1	5.4	4.4	3.6	2.9	2.4	2.0	1.7

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

CAUTION: This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Industries cannot accept responsibility for harm or damage caused in these situations.

Note:

1- Poles shorter than these listed here in for each gauge have EPA rating equal to or greater than what is provided in this table. To Confirm EPA ratings on shorter poles, contact LSI Industries.





Catalog #: _____ Project: _____
Prepared By: _____ Date: _____ Type: _____

LifeStyle Medium (XDLM)

Outdoor Decorative Area Light



OVERVIEW	
Lumen Output Range	5,000 - 25,000
Wattage	39 - 196
Efficacy Range (LPW)	120 - 168
Fixture Weight lbs (kg)	36 (16.3)

QUICK LINKS

[Ordering Guide](#)
[Performance](#)
[Photometrics](#)
[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum crown.
- Wiring emerges from crown through compression seal fitting to prevent water entry. One-piece silicone gasket seals crown to shade for water- and dust-tight construction.
- Spun aluminum shade with two shade styles available: A - Angle and B - Bell.
- Brackets are extruded and cast aluminum assemblies or fabrications. All decorative elements are die cast or extruded aluminum.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight (in carton) - 36 lbs (16.3 kg).

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 5W and FT.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.

- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377.
- Minimum CRI of 70
- Integral louver (IL) option available for improved backlight control with minimal sacrifice to street side performance.

Electrical

- High-performance driver features overvoltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L80 Calculated Life: >100k Hours.
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +40°C (-40°F to +104°F).
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards.

Controls

- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via iOS or Android configuration app.

Installation

- Classic Hook (CH) and Side Arm available. See Steel Round Pole and Aluminum Round Pole data sheets for pole selection information.
- Classic hook mount requires a 4" O.D. pole or tenon.
- Side Arm pole mount utilizes LSI's traditional B3 drill pattern.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet locations.
- IP65 rated Luminaire per IEC 60598-1.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)

Specifications and dimensions subject to change without notice.



Submitted by C&O SALES	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: XDLM A 5 LED HO NW UE BRZ SA5S Notes:	Type: S5 COSKC22-25951
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Type: _____

Lifestyle Medium - XDLM

ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: **XDLM B 3 LED SS NW UE BLK CH S PC120**

Prefix	Shade	Distribution	Light Source	Lumen Package	Color Temp	Voltage	Finish
XDLM - LifeStyle Medium	A - Angle B - Bell	2 - Type 2 3 - Type 3 5 - Type 5 FT - Type 4 (Forward Throw)	LED	VLW - 5,000 lms LW - 8,000 lms SS - 12,000 lms HO - 18,000 lms VHO - 25,000 lms Custom Lumen Packages ¹	CW - 5,000K CCT NW - 4,000K CCT WW - 3,000K CCT	UE - Universal Voltage (120 - 277V) 347-480 - High Voltage (347-480V)	BLK - Black BRZ - Bronze WHT - White GPT - Graphite GMG - Gun Metal Grey MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green
Mounting Style ^{2,3}		Mounting Configuration ^{2,3}		Controls		Options	
CH - Classic Hook SA4 - Side Arm Mount for 4" O.D. Round Poles ⁴ SA5 - Side Arm Mount for 5" O.D. Round Poles ⁴		S - Single D180 - Double @ 180° D90 - Double @ 90° ⁵ T90 - Triple @ 90° ⁵ TN120 - Triple @ 120° ⁵ Q90 - Quad ⁵ W - Wall Mount		IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor max 8-24' mounting height ⁶ IMSBT2 - Integral Bluetooth™ Motion and Photocell Sensor max 25-40' mounting height ⁶ ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' MH) ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' MH)		IL - Integral Louver Shield	

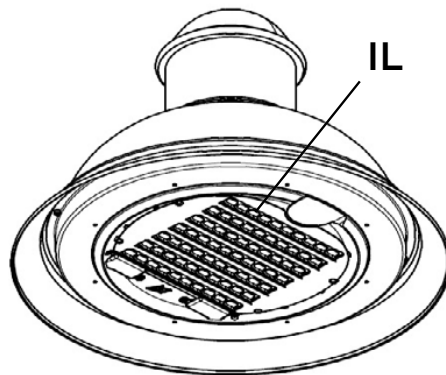
Accessory Ordering Information

Description	Order Number
Single Fusing (120V)	FK120 ⁷
Single Fusing (277V)	FK277 ⁷
Double Fusing (480V)	DFK480 ⁷
Double Fusing (347V)	DFK347 ⁷

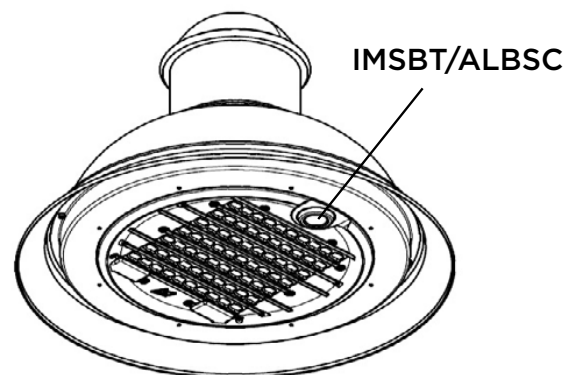
FOOTNOTES:


- Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
- When ordering a multiple configuration (D180, etc.) order one fixture/bracket configuration per pole - i.e. order one XDLM B 3 LED SS CW UE BLK CH D180 PC120 to receive two fixtures and one CH D180 bracket (see drawing on this page). See STEEL ROUND POLES and ALUMINUM ROUND POLES data sheets for pole ordering information.
- See Lifestyle Bracket ordering chart for Mounting Style/Configurations availability.
- B3 drilling pattern required.
- For use with SA4 and SA5 mounting styles only.
- IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store. Consult Factory for 347-480V.
- Fusing must be located in the hand hole of pole.

Fixture Shown With Integral Louver



Fixture Shown With Integral Sensor



Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: 5RP B3 S07G25 S BRZ Notes:	Type: <div>S5</div> COSKC22-25951
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Catalog # : _____ Project : _____

Prepared By : _____ Date : _____

Steel Poles

Round Straight



QUICK LINKS

[Ordering Guide](#)
[Configurations](#)
[Dimensions](#)
[EPA](#)

FEATURES & SPECIFICATIONS

Pole Shaft

- Steel round poles are 4" or 5" in diameter.
- Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 46,000 psi.
- On Tenon Mount steel poles, tenon is high-strength pipe. Tenon N option is 2-3/8" O.D. x 4-3/4" tall. Tenon 4N option is 4" O.D. x 4-7/8" tall.

Hand-Hole

- Standard hand-hole location is 12" above pole base.
- Poles 18' and above have a 3" x 6" reinforced hand-hole. Shorter poles have 2" x 4" non-reinforced hand-hole.

Base

- Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi.
- Two-piece square base cover is optional. Decorative base cover is also available.

Anchor Bolts

- Poles are furnished with anchor bolts featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional.
- Anchor bolts conform to ASTM F 1554-07a Grade 55 with a minimum yield strength of 55,000 psi.

Ground Lug

- Ground lug is standard.

Duplex Receptacle

- Weatherproof duplex receptacle is optional.

Ground Fault Circuit Interrupter

- Self-testing ground fault circuit interrupter is optional.

Finishes

- Every pole is provided with the DuraGrip® Protection System and a 5-year limited warranty:
- When the top-of-the line DuraGrip® Plus Protection System is selected, in addition to the DuraGrip® Protection System, a non-porous, automotive-grade corrosion coating is applied to the lower portion of the pole interior, sealing and further protecting it from corrosion. This option extends the limited warranty to 7 years.

Determining The Luminaire/Pole Combination For Your Application:

- Select luminaire from luminaire ordering information
- Select bracket configuration if required
- Determine EPA value from luminaire/ bracket EPA chart
- Select pole height

- Select MPH to match wind speed in the application area (See windspeed maps).
- Confirm pole EPA equal to or exceeding value of luminaire/bracket EPA
- Consult factory for special wind load requirements and banner brackets

Pole Vibration Damper

- A pole vibration damper is recommended in open terrain areas of the country where low steady state winds are common.
- Non-tapered poles and lightly loaded poles are more susceptible to destructive vibration if a damper is not installed.

Listings

- UL Listed
- BAA/TAA Compliant



Submitted by C&O SALES	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: 5RP B3 S07G25 S BRZ Notes:	Type: S5 COSKC22-25951
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Steel Poles - Round Straight

ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: **5RP B3 S07G 24 S PLP DGP**

Pole Series	Mounting Method	Material	Height ⁴	Mounting Configuration	Pole Finish	Options
4RP - 4" Diameter Round Straight Pole 5RP - 5" Diameter Round Straight Pole	Bolt-On Mount¹ - See pole selection guide for patterns and fixture matches. B5 - 5" Traditional Drilling Pattern B3 - 3" Reduced Drilling Pattern B2 - 2" Reduced Drilling Pattern T - Tenon Mount - See pole selection guide for tenon and fixture/bracket matches. I - No Mounting Holes ¹ - Use with: • Greenlee Lifestyle CC, SC & CH mounting styles • Enterprise & Lexington PT Single mounting styles ² • Lifestyle UCLS • Lifestyle UCLD180	S11G – 11 Ga. Steel (5RP only) S10G – 10 Ga. Steel (4RP only) S07G – 07 Ga. Steel (5RP only)	8' 10' 12' 14' 15' 16' 17' 17' 6" 18' 20' 22' 22' 6" 24' 25' 26' 27' 28' 30'	S – Single/Parallel D180 – Double D90 – Double DN90 – Double T90 – Triple TN120 – Triple Q90 – Quad QN90 – Quad N – Tenon Mount 4N – Tenon Mount (5RPT only. For 4" poles, use 4RPI) ⁵ 4N-6 – Tenon Mount (5RPT only. For 4" poles use 4RPI)	BRZ – Bronze BLK – Black PLP – Platinum Plus WHT – White SVG – Satin Verde Green GPT – Graphite MSV – Metallic Silver BZA – Alternate Bronze	GA – Galvanized Anchor Bolts SF – Single Flood ⁶ DF – Double Flood ⁶ DGP – DuraGrip [®] Plus LAB – Less Anchor Bolts <div>Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 20' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.</div>

Height Restriction, Consult Pole Selection Chart on opposite page

Accessory Ordering Information

Description	Order Number	Description	Order Number
4" SRBC Square Base Cover	158450CLR	MH3 - Mounting Hole Plugs for use with 3" reduced drill pattern (3 sets of 3 plugs)	681126
5" SRBC Square Base Cover	158451CLR	MH2 - Mounting Hole Plugs for use with 2" reduced drill pattern (3 sets of 3 plugs)	725841
4" /5" GBC Decorative Base Cover	483859CLR	BB - Banner Brackets	Consult Factory for EPA calculations
ER2 – Weatherproof Duplex Receptacle (Poles below 18')	122557CLR		
ER2 – Weatherproof Duplex Receptacle for Reinforced Hand-hole (Poles 18' and above)	122566CLR		
GFI – Ground Fault Circuit Interrupter (Poles below 18')	122558CLR		
GFI – Ground Fault Circuit Interrupter for Reinforced Hand-hole (Poles 18' and above)	22567CLR		
MH5 - Mounting Hole Plugs for use with 5" traditional drill pattern (3 set of 3 plugs)	132336		

FOOTNOTES:

- See Area Light Brackets - 3" Reduced Drill Pattern and Area Light Brackets - 5" Traditional Drill Pattern spec sheets.
- For Enterprise and Lexington PT mounting configuration styles, see Tenon Mount (4N) and Greenlee Slipfit Pole Series (4RPI).
- Standard flat black pole cap provided. Domed Greenlee pole cap will ship with SA4 and SA5 Enterprise and Lexington fixtures, SA Lifestyle fixtures, BK SPT BO, BK MPT BO and UCL brackets.

- Pole heights will have a +/- 1/2" tolerance. Max height for 4RP S10G is 24'. Max height of the 5RP S11G is 26'.
- For Enterprise and Lexington D180 or other mounting configuration styles using BK SPT BO and BK MPT BO accessories, see chart on Bolt-on Mount 4RPB3 / 5RPB3 DRILLING PATTERN section on pole selection chart.
- See Flood Lighting Brackets section for choice of FBO brackets.



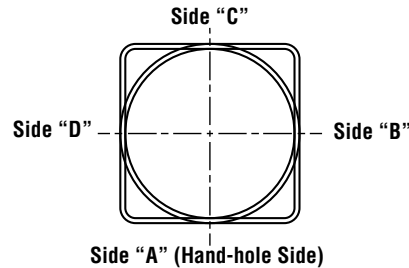


Steel Poles - Round Straight

DRILLING LOCATIONS

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Sides	A	B	C	D
Hand-hole	X			
Single	X			
D180		X		X
D90	X			X
DN90 ¹				
T90	X	X		X
TN120 ²				
Q90	X	X	X	X
QN90 ³				
Single FBO	X			
Double FBO		X		X

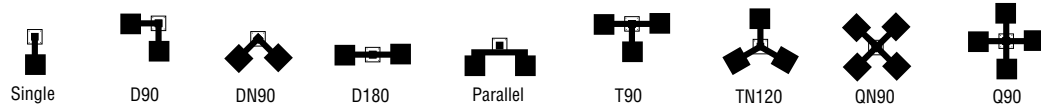


NOTES:

- 1 - Two locations will be 45° to the left and right of Side A.
- 2 - Other two locations will be 120° to the left and right of Side A.
- 3 - Two locations will be 45° to the left and right of Side A and two locations will be 135° to the left and right of Side A.

Consult factory for custom variations. Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 20' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.

FIXTURE CONFIGURATIONS



BOLT CIRCLE

	4" (102mm) Round 10-1/8" (257mm) sq. 11" (279mm) Dia. Bolt Circle	5" (127mm) Round 10-1/8" (257mm) sq. 11" (279mm) Dia. Bolt Circle	5" (127mm) Round 10-1/8" (257mm) sq. 11" (279mm) Dia. Bolt Circle
Bolt Circle Designator	L	L	M
Bolt Circle	Slotted 11" (279mm)	Slotted 11" (279mm)	Slotted 11" (279mm)
Anchor Bolt Size	3/4" x 30" (19mm x 762mm)	3/4" x 30" (19mm x 762mm)	1" x 36" (25mm x 914mm)
Anchor Bolt Projection	3-1/4" (83mm)	3-1/4" (83mm)	4" (102mm)
Base Plate Opening for Wireway Entry	3-5/8" (92mm)	4-3/4" (121mm)	4-5/8" (117mm)
Base Plate Dimensions	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 1" thk. (257mm x 25mm)
Pole Gauge	10	11	7

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the appropriate anchor bolt template.

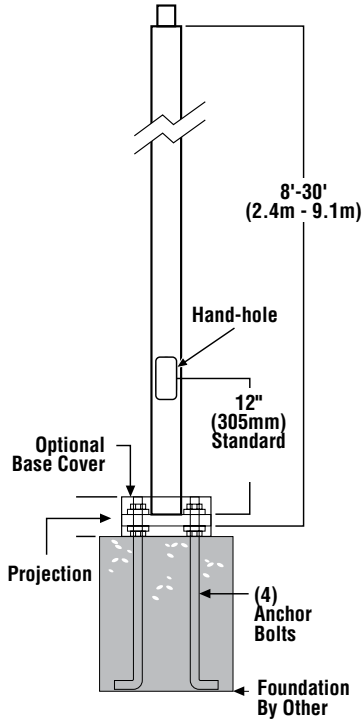




Steel Poles - Round Straight

PRODUCT DIMENSIONS

RPT –
N = 2-3/8"(60mm) O.D. x 4-3/4"(121mm) Tenon
4N = 4"(102mm) O.D. x 4-7/8"(124mm) Tenon
4N6 = 4"(102mm) O.D. x 6-3/8"(162mm) Tenon

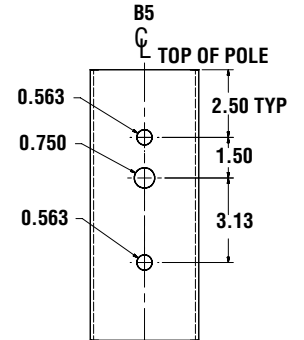
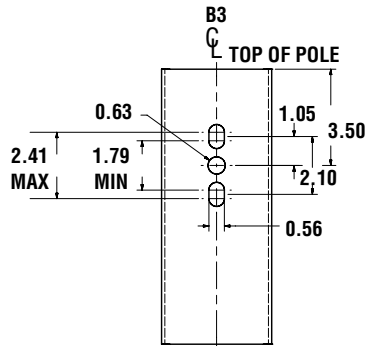
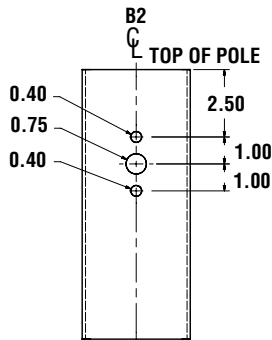



SHIPPING WEIGHTS	
4"(102mm) Dia. 10 Ga. is approximately	6.0 lbs./ft.
5"(127mm) Dia. 11 Ga. is approximately	7.0 lbs./ft.
5"(127mm) Dia. 07 Ga. is approximately	10.0 lbs./ft.
Anchor Bolts (3/4" x 30")(19mm x 762mm)	15 lbs.(7kg)/set
Anchor Bolts (1" x 36")(125mm x 914mm)	30 lbs.(14kg)/set

SF –
Single Flood
Pole Preparation



Bolt-On Mount 2-Bolt Pattern



Submitted by		Catalog Number:	Type:
	Job Name:	5RP B3 S07G25 S BRZ	S5 COSKC22-25951
	LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Notes:	



Steel Poles - Round Straight

WIND SPEED

EPA Information

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

CAUTION: This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Industries cannot accept responsibility for harm or damage caused in these situations.

NOTE: Pole calculations include a 1.3 gust factor over steady wind velocity. Example: poles designed to withstand 80 MPH steady wind will withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI for other areas. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory.

Use ONLY with "Wind Speed Map for ASCE 7-10

POLE¹	Mtg. Height Length (ft)	Wall Thick (ga)	BOLT CIRCLE			EPA								
			Designator	Dia. (in)	Anchor bolt Dia (in)	110 MPH	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH
4" x 10-ga x 14'	14	10	L	11	0.75	6.0	5.2	4.7	3.9	3.2	2.7	2.3	2.0	1.7
4" x 10-ga x 16'	16	10	L	11	0.75	4.3	3.7	3.2	2.6	2.1	1.8	1.4	1.2	1.0
4" x 10-ga x 18'	18	10	L	11	0.75	7.7	6.8	6.0	5.0	4.2	3.5	3.0	2.5	2.2
4" x 10-ga x 20'	20	10	L	11	0.75	6.0	5.2	4.6	3.7	3.1	2.5	2.1	1.8	1.5
4" x 10-ga x 22'	22	10	L	11	0.75	4.6	3.9	3.3	2.6	2.1	1.7	1.4	1.1	0.9
4" x 10-ga x 24'	24	10	L	11	0.75	3.4	2.7	2.2	1.7	1.3	1.0	0.7	0.5	n/a
5" x 11-ga x 16'	16	11	L	11	0.75	8.7	7.9	7.2	6.0	5.0	4.3	3.7	3.2	2.8
5" x 11-ga x 18'	18	11	L	11	0.75	12.2	11.1	10.1	8.5	7.2	6.1	5.3	4.6	4.0
5" x 11-ga x 20'	20	11	L	11	0.75	10.0	9.1	8.2	6.8	5.7	4.9	4.2	3.6	3.1
5" x 11-ga x 22'	22	11	L	11	0.75	8.1	7.3	6.6	5.5	4.5	3.8	3.2	2.8	2.4
5" x 11-ga x 24'	24	11	L	11	0.75	6.5	5.9	5.3	4.3	3.5	2.9	2.4	2.0	1.7
5" x 11-ga x 26'	26	11	L	11	0.75	5.2	4.6	4.1	3.2	2.6	2.1	1.7	1.4	1.1
5" x 7-ga x 18'	18	7	M	11	1.00	19.7	17.9	16.4	13.8	11.7	10.1	8.8	7.7	6.8
5" x 7-ga x 20'	20	7	M	11	1.00	16.5	15.0	13.7	11.5	9.8	8.4	7.3	6.3	5.6
5" x 7-ga x 22'	22	7	M	11	1.00	14.0	12.7	11.5	9.6	8.1	7.0	6.0	5.2	4.6
5" x 7-ga x 24'	24	7	M	11	1.00	11.8	10.6	9.6	8.0	6.8	5.7	4.9	4.2	3.7
5" x 7-ga x 26'	26	7	M	11	1.00	9.9	8.9	8.0	6.7	5.6	4.7	4.0	3.4	2.9
5" x 7-ga x 28'	28	7	M	11	1.00	8.3	7.4	6.7	5.4	4.5	3.7	3.1	2.7	2.3
5" x 7-ga x 30'	30	7	M	11	1.00	6.8	6.1	5.4	4.4	3.6	2.9	2.4	2.0	1.7

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

CAUTION: This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Industries cannot accept responsibility for harm or damage caused in these situations.

Note:

1- Poles shorter than these listed here in for each gauge have EPA rating equal to or greater than what is provided in this table. To Confirm EPA ratings on shorter poles, contact LSI Industries.





Catalog #: _____ Project: _____
Prepared By: _____ Date: _____ Type: _____

Angled Reflector (AD150)

LSI Abolite® LED Angled Reflector



OVERVIEW	
Lumen Range	1,250 - 1,700
CCT	27/30/35/40/50K
Wattage Range	9.3 - 12.8

QUICK LINKS

[Ordering Guide](#)
[Performance](#)
[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Heavy gauge aluminum with a thermally cured high quality polyester powder coat finish.
- Integrated power supply built into the fixture allowing the RLM to be connected directly to line voltage.
- Manufactured in the USA

Optical System

- Available in 5000K, 4000K, 3500K, 3000K, and 2700K color temperatures
- Glass Globe required for outdoor applications
- Minimum CRI of 80

Electrical

- Standard Universal Voltage (120-277 Vac) Input 50/60Hz
- 0-10V dimming, 5% standard
- Operating Temperature -30° to +50°C (-22°F to +122°F)

Installation

- Fixed hub tapped for 3/4" NPT conduit.
- Pre-wired with 96" leads standard.
- Suitable for gooseneck mounting applications.
- Not designed for uplight applications.


Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.

Listings

- UL Listed
- Suitable for wet locations



Submitted by		Catalog Number:	Type:
	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	AD150 15L UNV 40 CGG6 GRD LDS96WL GB A 3 GRD Notes:	WP1 COSKC22-25951



Type: _____

LSI Abolite® LED Angled Reflector

ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: **AD 150 17L UNV 35 CGG6 GRD LDS96WL**

Prefix	Lumen Package	Voltage	Color Temp	Lens ²	Finish	Mounting Options
AD 150	12L - 1250 lms	UNV - Universal Voltage (120/227V) 120 - INC	50 - 5,000K	Blank - Flat lens (indoor only)	GWT - Gloss White	LDS96WL - Prewired leads. For use with stem or bracket mounting in wet or indoor locations.
	15L - 1500 lms		40 - 4,000K	CGG6 - Clear Glass Globe 6-3/4"	GBK - Gloss Black	
	17L - 1700 lms		35 - 3,500K	FGG6 - Frosted Glass Globe 6-3/4"	GRD - Gloss Red	
	INC ¹ - Incandescent		30 - 3,000K 27 - 2,700K (blank) - INC	PGG6 - Prismatic Glass Globe 6-3/4"	BBL - Bright Blue DKG - Dark Green SLV - Silver MBK - Matte Black RST - Rust HCP - Hammered Copper	

1. Lamp supplied by other. E26 MED Base socket.
2. Flat lens for indoor LED applications only. Globe required for outdoor applications.

Accessory Ordering Information

CANOPY ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
3/4" (19mm) Tap Decorative Box Cover Aligner - Gloss White	BA 3 GWT

Standard finish is Gloss White Powder; other RLM colors available.

WIRE GUARD ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
10" (254mm) Convex Wire Guard - Metallic Silver	COG 10 MSV

Standard finish is Metallic Silver Powder; other RLM colors available

GLOBE GUARD ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
6-3/4" Cast Aluminum Globe Guard	GGDC6
6-3/4" Wire Globe Guard	GGW6

Standard finish is Natural Aluminum; other RLM colors available

STEM ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
3/4" x 3" (19mm x 76mm) Aluminum Stem - Gloss White	STM 3 3 GWT
3/4" x 6" (19mm x 152mm) Aluminum Stem - Gloss White	STM 6 3 GWT
3/4" x 12" (19mm x .4m) Aluminum Stem - Gloss White	STM 12 3 GWT
3/4" x 18" (19mm x .5m) Aluminum Stem - Gloss White	STM 18 3 GWT
3/4" x 24" (19mm x .6m) Aluminum Stem - Gloss White	STM 24 3 GWT
3/4" x 36" (19mm x .9m) Aluminum Stem - Gloss White	STM 36 3 GWT
3/4" x 48" (19mm x 1.2m) Aluminum Stem - Gloss White	STM 48 3 GWT
3/4" x 60" (19mm x 1.5m) Aluminum Stem - Gloss White	STM 60 3 GWT
3/4" x 72" (19mm x 1.8m) Aluminum Stem - Gloss White	STM 72 3 GWT

Standard finish is Gloss White Powder; other RLM colors available.

GOOSE NECK BRACKETS ORDERING INFORMATION (Accessories are field installed)	
Description	Order Number
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN A 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN B 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN C 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN D 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN E 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN F 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN G 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN H 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN J 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN K 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN P 3 GWT
3/4" (19mm) Aluminum Gooseneck Bracket - Gloss White	GN U 3 GWT

Standard finish is Gloss White Powder; other RLM colors available.

PERFORMANCE

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DELIVERED LUMENS																	
Lumen Package	CRI	2700K			3000K			3500K			4000K			5000K			Wattage
		Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
12L	80	1162	126	B1-U2-G1	1294	141	B1-U1-G1	1152	125	B1-U1-G1	1150	125	B1-U1-G1	1150	125	B1-U1-G1	9.3
15L		1403	128	B1-U2-G1	1563	143	B1-U2-G1	1391	127	B1-U1-G1	1389	127	B1-U1-G1	1389	127	B1-U1-G1	10.9
17L		1587	124	B1-U2-G1	1768	138	B1-U2-G1	1574	123	B1-U2-G1	1571	123	B1-U2-G1	1571	123	B1-U2-G1	12.8

*Photometric performance values shown are representative with flat lens option. Alternate glass globe option outputs will vary. Consult factory.


ELECTRICAL DATA*					
Lumen Package	Wattage	120V	208V	240V	277V
12L	9.3	0.08	0.04	0.04	0.03
15L	10.9	0.09	0.05	0.05	0.04
17L	12.8	0.11	0.06	0.05	0.05

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.



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SPEC.1060.A.0720

Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: AD150 15L UNV 40 CGG6 GRD LDS96WL GB A 3 GRD Notes:	Type: WP1 COSKC22-25951
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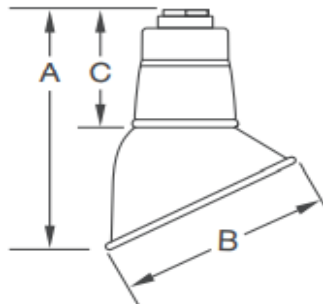
Type: _____

LSI Abolite® LED Angled Reflector

PRODUCT DIMENSIONS

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Prefix	Height (A)	Diameter (B)	Neck (C)
AD150	12" (305mm)	10" (254mm)	5-1/4" (133mm)





Catalog #: _____ Project: _____
 Prepared By: _____ Date: _____ Type: _____

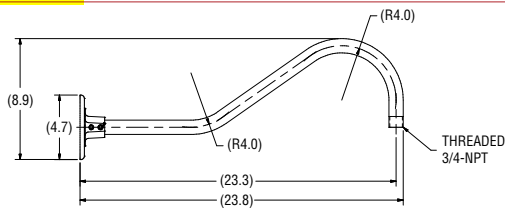
LSI Abolite Gooseneck and Wall Brackets

3/4" Single Reflector Gooseneck Wall Bracket. Features rigid conduit and cast wall plate which fits 4" octagonal box (by other). Brackets are finished in gloss white powder, additional colors are available.

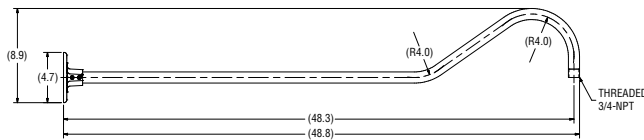
NOTE: Brackets feature 3/4" stems which slip fit into wall plate (wall end is unthreaded). Conduit may be cut down (in the field by other) to shorten bracket length. CA5 wall plate included with all goosenecks.

All dimensions displayed in inches.

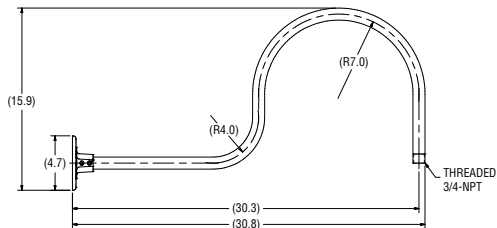
GRD - GLOSS RED
GB A 3 GWT



GB B 3 GWT

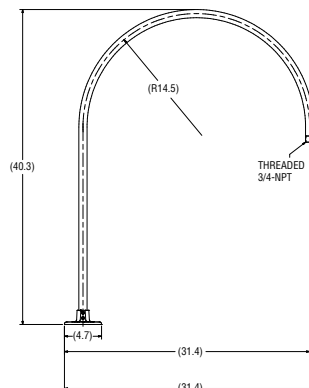


GB C 3 GWT

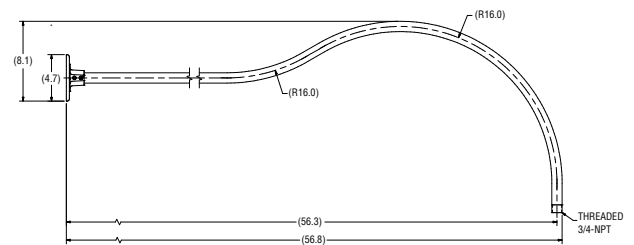


GB E 3 GWT

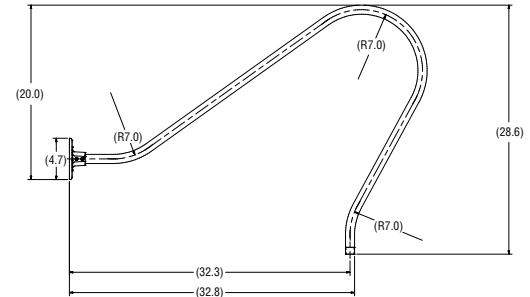
3/4" Single Reflector Gooseneck Wall Bracket. Features rigid conduit and cast wall plate which fits 4" octagonal box (by other). The bracket is designed to be mounted to a horizontal surface, but could also be mounted to a wall. The bracket features a gloss white powder finish, additional colors available.



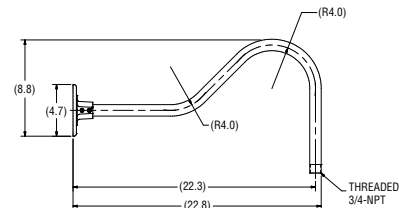
GB F 3 GWT



GB G 3 GWT

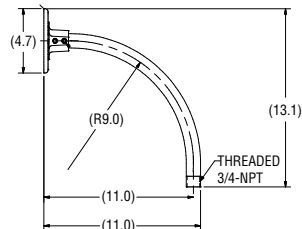
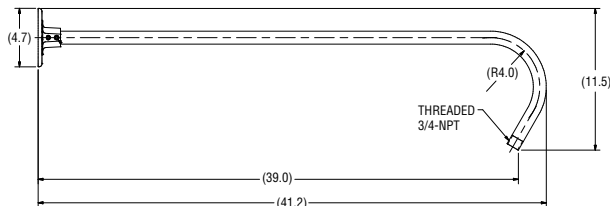
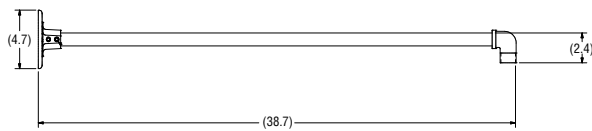


GB H 3 GWT

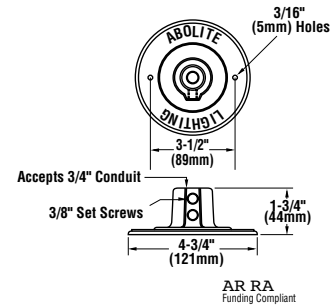




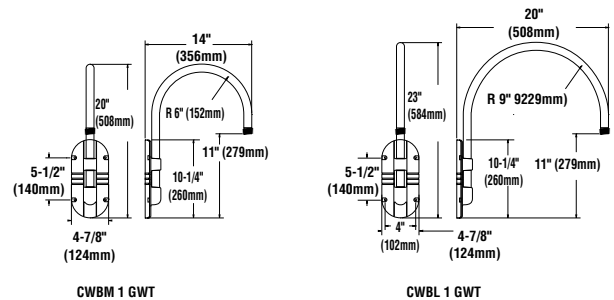
LSI Abolite | Gooseneck and Wall Brackets

GB K 3 GWT**GB P 3 GWT****GB U 3 GWT****RECESSED CA-5**

Gloss white powder finish (other colors available).
Mounts to recessed 4" octagon box (by others).

**CWBM 1 GWT and CWBL 1 GWT**

Contemporary Wall Bracket with gloss white powder finish, additional colors available.





Catalog #: _____ Project: _____
Prepared By: _____ Date: _____ Type: _____

Mirada Medium Wall Sconce (XWM)

Outdoor Wall Sconce



OVERVIEW	
Lumen Range	3,000 - 21,000
Wattage Range	23 - 175
Efficacy Range (LPW)	125 - 158
Weight lbs(kg)	30 (13.6)

QUICK LINKS

[Ordering Guide](#)
[Performance](#)
[Photometrics](#)
[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Hinged die-cast aluminum wiring access door located underneath.
- Galvanized-steel universal wall mount bracket comes standard with hinging mechanism to easily access the junction box wire connections without removing the luminaire.
- Optional pole-mounting bracket (XPMa) permits mounting to standard poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 30 lbs in carton.

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP65 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in Types 2, 3, and Forward Throw (FT) distributions.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- Zero uplight.
- Available in 5000K, 4000K and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.

Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-

circuit and over temperature protection. Custom lumen and wattage packages available.

- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours
- Total harmonic distortion: <20%
- 3L to 12L operating temperature: -40°C to +50°C (-40°F to +122°F)
- 15L operating temperature: -40°C to +45°C (-40°F to +113°F).
- 18L operating temperature: -40°C to +40°C (-40°F to +104°F).
- 21L operating temperature: -40°C to +35°C (-40°F to + 95°F).
- Power factor: >.90
- Input power stays constant over life.
- Optional 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed via hinged door.
- Optional integral emergency battery pack provides 90-minutes of constant power to the LED system, ensuring code compliance. A test switch/indicator button is installed on the housing for ease of maintenance. The fixture delivers 1500 lumens during emergency mode.

Controls

- Integral passive infrared Bluetooth™ motion and photocell sensor options. Fixtures operate independently and can be commissioned via an iOS or Android configuration app. Updates and modifications to the control strategy are

easily implemented via an intuitive app.

- LSI's AirLink™ Blue lighting control system is a simple feature rich wireless Bluetooth mesh network. The integrated fixture sensor module provides wireless control of grouped fixtures based on motion sensors, daylight or a fully customizable schedule.

Installation

- Universal wall mounting plate easily mounts directly to 4" octagonal or square junction box.
- 2 fasteners secure the hinged door underneath the housing and provide quick & easy access to the electrical compartment for installing/servicing.
- Optional terminal block accepts up to 12 ga wire.


Warranty

- LSI LED Fixtures carry a 5-year warranty.
- 1 Year warranty on Battery Back-up option.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K or lower color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet Locations.
- IP65 rated luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications when pole mounted (using optional XPMa bracket) or wall mounted.
- IK08 rated luminaire per IEC 66262 mechanical impact code
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.



Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: XWM 3 LED 08L 40 UE BRZ Notes:	Type: <div>WP2</div> COSKC22-25951
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Type: _____

Mirada Wall Sconce (XWM)

ORDERING GUIDE

[Back to Quick Links](#)

TYPICAL ORDER EXAMPLE: **XWM 2 LED 03L 30 UE BRZ ALSC**

Luminaire Prefix	Distribution	LED Technology	Lumen Package	Color Temperature	Voltage
XWM - Mirada Medium Wall Sconce	2 - Type 2	LED	3L - 3,000 lms	30 - 3000K	UE - Universal Voltage (120-277V)
	3 - Type 3		4L - 4,000 lms	40 - 4000K	HV - High Voltage (347-480V)
	FT - Type 4 Forward Throw		6L - 6,000 lms	50 - 5000K	
			8L - 8,000 lms	AMB - Phosphor Converted Amber ¹	
			12L - 12,000 lms		
			15L - 15,000 lms		
			18L - 18,000 lms		
		21L - 21,000 lms			
			Custom Lumen Packages⁶		

Finish	Controls (Choose One)	Options
BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	Wireless Controls ALSC - AirLink Synapse Control System ALSCS01 - AirLink Synapse Control System with 8-12' Motion Sensor ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height) Standalone Controls DIM - 0-10v Dimming leads extended to housing exterior IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor max 8-24' mounting height ⁴ IMSBT2 - Integral Bluetooth Motion and Photocell Sensor max 25-40' mounting height ⁴ Button Type Photocells PCI120 - 120V PCI208-277 - 208 -277V PCI347 - 347V Lutron Limelight Controls LLC - LimeLight Integral Wireless Radio Control by Lutron ² LLCS1 - Limelight Integral Wireless Radio Control and PIR Motion/ Daylight Sensor by Lutron 8-15' mt height ² LLCS2 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 16-30' mt height ² LLCS3 - Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 31-40' mt height ²	BB - Battery Back-up (0°C) ² CWBB - Cold Weather Battery Backup (-20°C) ² XPMA - Pole Mounting Bracket SP1 - 10kV Surge Protection TB - Terminal Block


ACCESSORY ORDERING INFORMATION⁷

Description	Order Number	Description	Order Number
XWM SW BLK - Surface Wiring Box (Available in BLK only)	356915BLK	FK347 - Single Fusing	FK347 ⁵
10' Linear Bird Spike Kit (2' Recommended per Luminaire)	751632	DFK - Double Fusing	DFK208 ⁵
FK120 - Single Fusing	FK120 ⁵	DFK - Double Fusing (240V)	DFK240 ⁵
FK277 - Single Fusing	FK277 ⁵	DFK - Double Fusing (480V)	DFK480 ⁵

FOOTNOTES:

- Only available in 6L Lumen Package. Consult factory for lead time and availability.
- Not available in HV.
- Consult Factory for Site Layout.
- IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
- Fusing must be located in a hand hole for pole or in the junction box.
- Custom lumen and wattage packages available consult factory. Values are within industry standard tolerances but not DLC listed.
- Accessories are shipped separately and field installed.



Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: XWM 3 LED 08L 40 UE BRZ Notes:	Type: <div style="background-color: yellow; padding: 5px; text-align: center; font-size: 24px; font-weight: bold;">WP2</div> COSKC22-25951
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Type: _____

Mirada Wall Sconce (XWM)

PERFORMANCE

[Back to Quick Links](#)

DELIVERED LUMENS*												
Lumen Package	Distribution	CRI	3000K			4000K			5000K			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
03L	2	70	3178	138	B1-U0-G1	3368	146	B1-U0-G1	3313	143	B1-U0-G1	23
	3	70	3224	140	B1-U0-G1	3416	148	B1-U0-G1	3361	145	B1-U0-G1	
	FT	70	3160	137	B1-U0-G1	3349	145	B1-U0-G1	3294	143	B1-U0-G1	
04L	2	70	4230	139	B1-U0-G1	4483	147	B1-U0-G1	4410	145	B1-U0-G1	30
	3	70	4291	141	B1-U0-G1	4547	150	B1-U0-G1	4473	147	B1-U0-G1	
	FT	70	4206	138	B1-U0-G1	4458	147	B1-U0-G1	4385	144	B1-U0-G1	
06L	2	70	6326	134	B2-U0-G1	6704	142	B2-U0-G2	6595	140	B2-U0-G2	47
	3	70	6417	136	B1-U0-G2	6800	144	B1-U0-G2	6689	142	B1-U0-G2	
	FT	70	6290	134	B2-U0-G2	6666	142	B2-U0-G2	6557	139	B2-U0-G2	
08L	2	70	8166	128	B2-U0-G2	8654	135	B2-U0-G2	8513	133	B2-U0-G2	64
	3	70	8283	129	B2-U0-G2	8778	137	B2-U0-G2	8635	134	B2-U0-G2	
	FT	70	8120	126	B2-U0-G2	8605	134	B2-U0-G2	8465	132	B2-U0-G2	
12L	2	70	11902	146	B3-U0-G2	12358	151	B3-U0-G2	12927	158	B3-U0-G2	82
	3	70	11834	145	B2-U0-G2	12287	150	B2-U0-G2	12853	157	B2-U0-G2	
	FT	70	11737	143	B2-U0-G2	12186	149	B2-U0-G2	12747	156	B2-U0-G2	
15L	2	70	14662	140	B3-U0-G3	15223	145	B3-U0-G3	15924	152	B3-U0-G3	105
	3	70	14603	139	B2-U0-G2	15162	145	B2-U0-G3	15860	151	B2-U0-G3	
	FT	70	14502	139	B2-U0-G3	15057	144	B2-U0-G3	15750	150	B2-U0-G3	
18L	2	70	17403	134	B3-U0-G3	18069	139	B3-U0-G3	18901	145	B3-U0-G3	130
	3	70	17438	134	B3-U0-G3	18106	139	B3-U0-G3	18940	146	B3-U0-G3	
	FT	70	17259	133	B3-U0-G3	17920	138	B3-U0-G3	18745	144	B3-U0-G3	
21L	2	70	20380	127	B3-U0-G3	21160	132	B3-U0-G3	22134	138	B4-U0-G3	161
	3	70	20375	125	B3-U0-G3	21155	131	B3-U0-G3	22129	131	B3-U0-G3	
	FT	70	20215	126	B3-U0-G3	20989	130	B3-U0-G3	21955	136	B3-U0-G3	

*LEDs are frequently updated therefore values are nominal.

ELECTRICAL DATA*						
Lumen Package	120V	208V	240V	277V	347V	480V
03L	0.19	0.11	0.10	0.08	0.07	0.05
04L	0.25	0.15	0.13	0.11	0.09	0.06
06L	0.39	0.23	0.20	0.17	0.14	0.10
08L	0.54	0.31	0.27	0.23	0.19	0.13
12L	0.68	0.39	0.34	0.30	0.24	0.17
15L	0.87	0.50	0.44	0.38	0.30	0.22
18L	1.08	0.63	0.54	0.47	0.37	0.27
21L	1.34	0.77	0.67	0.58	0.46	0.34

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

DELIVERED LUMENS*					
Lumen Package	Distribution	3000K			Wattage
		Delivered Lumens	Efficacy	BUG Rating	
6L	2	3325	76	B1-U0-G1	43.5
	3	3385	78	B1-U0-G1	
	FT	3343	77	B1-U0-G1	

RECOMMENDED LUMEN MAINTENANCE (3L-8L) ¹					
Ambient Temperature C	Initial ²	25K hrs. ²	50K hrs. ³	75K hrs. ³	100K hrs. ³
0 C - 50 C	100%	98%	95%	93%	90%

RECOMMENDED LUMEN MAINTENANCE (12L-21L) ¹					
Ambient Temperature C	Initial ²	25K hrs. ²	50K hrs. ³	75K hrs. ³	100K hrs. ³
0 - 35 C	99%	97%	95%	93%	91%

1 - Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing.

2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times the IESNA LM-80-08 total test duration for the device under testing.

3 - Lumen maintenance values at 25C are calculated per TM-21 based on LM-80 data and in-situ testing times the IESNA LM-80-08 total test duration for the device under testing





Type: _____

Mirada Wall Sconce (XWM)

PHOTOMETRICS

[Back to Quick Links](#)

All published luminaire photometric testing performed to IESNA LM-79 standards. ISO footcandle plots below demonstrate the Mirada Wall Sconce (XWM) light patterns only. Not for total fixture output. For complete specifications and IES files, see website.

XWM-2-LED-6L-40

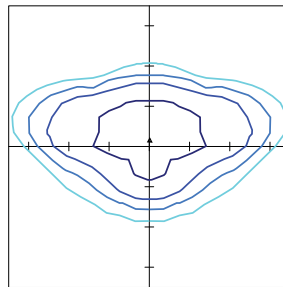
LUMINAIRE DATA

Type 2 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	6,025
Watts	44.7
Efficacy	135
IES Type	Type III - Medium
BUG Rating	B2-U0-G2

Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	807.1	13.4%
Medium (30-60)°	3301.0	54.8%
High (60-80)°	1847.4	30.7%
Very High (80-90)°	69.2	1.1%
Uplight (90-180)°	0.0	0.0%
Total Flux	6024.7	100%

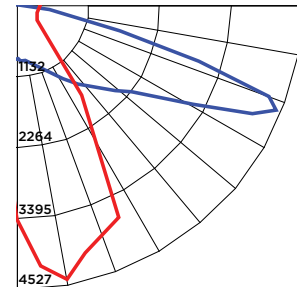
ISO FOOTCANDLE PLOT



15' Mounting Height / 10' Grid Spacing

5 FC 2 FC 1 FC 0.5 FC

POLAR CURVE



XWM-3-LED-6L-40

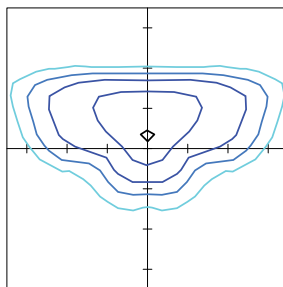
LUMINAIRE DATA

Type 3 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	6,133
Watts	44.7
Efficacy	137
IES Type	Type III - Medium
BUG Rating	B1-U0-G2

Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	567.4	9.3%
Medium (30-60)°	3106.3	50.6%
High (60-80)°	2368.8	38.6%
Very High (80-90)°	90.7	1.5%
Uplight (90-180)°	0.0	0.0%
Total Flux	6133.2	100%

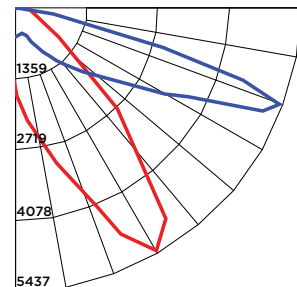
ISO FOOTCANDLE PLOT



10' Mounting Height / 10' Grid Spacing

5 FC 2 FC 1 FC 0.5 FC

POLAR CURVE



XWM-FT-LED-6L-40

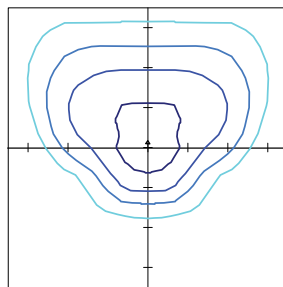
LUMINAIRE DATA

Type FT Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	6,058
Watts	44.7
Efficacy	136
IES Type	Type IV - Short
BUG Rating	B1-U0-G2

Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	779.0	12.9%
Medium (30-60)°	2584.4	42.7%
High (60-80)°	2523.2	41.7%
Very High (80-90)°	170.8	2.8%
Uplight (90-180)°	0.0	0.0%
Total Flux	6057.4	100.0%

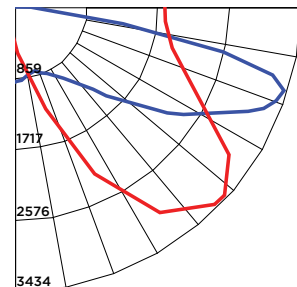
ISO FOOTCANDLE PLOT




10' Mounting Height / 10' Grid Spacing

5 FC 2 FC 1 FC 0.5 FC

POLAR CURVE



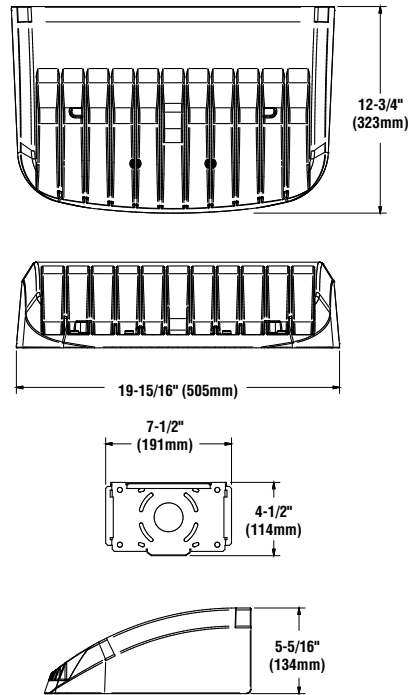
Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: XWM 3 LED 08L 40 UE BRZ Notes:	Type: WP2 COSKC22-25951
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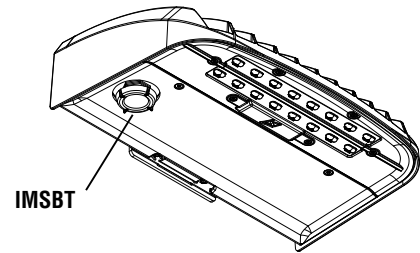
Type: _____

Mirada Wall Sconce (XWM)

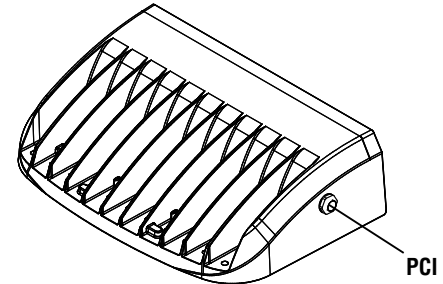
PRODUCT DIMENSIONS

[Back to Quick Links](#)


Luminaire Shown with IMSBT



Luminaire Shown with PCI



CONTROLS

AirLink Wireless Lighting Controller

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect a sensor into the outdoor AirLink wireless lighting system. The wireless integrated controller is compatible with this fixture.

[Click here to learn more about AirLink.](#)

Integral Bluetooth™ Motion and Photocell Sensor (IMSBT)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more about IMSBT.](#)

AirLink Blue

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more about AirLink Blue.](#)





Catalog #: _____ Project: _____
Prepared By: _____ Date: _____ Type: _____

Traditional Wall Light Medium (TMWP)

Wall Light



OVERVIEW	
Lumen Package	4,000
Wattage Range	38 - 78
Efficacy Range (LPW)	125 - 130
Weight lbs (kg)	6.6 (3.0)

QUICK LINKS

[Ordering Guide](#)
[Performance](#)
[Photometrics](#)
[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rugged traditional aluminum die cast housing provides proven environmental protection for LED modules.
- Traditional fixture design provides a familiar look and standard installation requirements.
- Retaining this look allows the ability to upgrade fixtures gradually, while retaining the same overall fixture appearance throughout a facility.
- Patent pending thermal stacking technology system features a unique internal design that allows for lower operating temperatures which results in a brighter, whiter light, more stable color and longer LED and driver life.
- LEDs manufactured for the TMWP series utilize Epoxy Guard conformal coating which reduces the chance of board corrosion.
- Weight: 6.6 lbs in carton.

Optical System

- Tempered glass lens.
- Lens assembly is designed to provide high efficiency and to target the light where needed to satisfy outdoor lighting requirements.

- Positioning of the LEDs result in the light being directed to desired locations eliminating glare and offensive light.
- Available in 5000K, 4000K and 3000K color temperatures per ANSI C78.377.
- Minimum CRI of 80.

Electrical

- High-performance driver features overvoltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +40°C (-40°F to +104°F).
- Power factor: >0.90
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.
- Minimum 2.5kV surge rating.

Controls

- Optional factory installed electronic button photocontrol (apertures for field install).

Installation

- Fixture retains the same knock-out sizes and positions as previous models, reducing wiring costs.


Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.
- 1 Year warranty on optional button photocell.
- 1 Year warranty on optional Battery Back Up. Test regularly in accordance with local codes.

Listings

- Listed to UL 1598 and UL 8750.
- CSA Listed.
- Meets Buy American Act requirements.
- RoHS Compliant.
- Suitable for wet locations.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/GPL to confirm which versions qualify.



Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: TMWP LED 4L UNV DIM 40 BZA Notes:	Type: WP3 COSKC22-25951
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Type: _____

Traditional Wall Light Medium (TMWP)

ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **TMWP 4L UNV 40 BZA PC120**

Family	Lumen Package*	Voltage	Dimming	Color Temperature	Finish	Controls
TMWP LED - Traditional Wall Light Medium	4L - 4,000 Lumens	UNV - Universal Voltage (120-277V)	DIM - Dim to 10% (0-10V)	50 - 5,000K CCT - 80 CRI	BZA - Bronze	PC120 - 120V Button Photocell
				40 - 4,000K CCT - 80 CRI	BLK - Black	PC1208-277 - 208-277V Button Photocell
				30 - 3,000K CCT - 80 CRI	SLV - Silver	
					WHT - White	

PERFORMANCE

DELIVERED LUMENS											
Lumens	CRI	3000K			4000K			5000K			Wattage
		Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
4L	80	3913	125	B1-U3-G3	3913	125	B1-U3-G3	4044	130	B1-U3-G3	31

ELECTRICAL DATA*				
Lumens	120V	208V	240V	277V
4L	0.26	0.15	0.13	0.11

*Electrical data at 25C (77F). Actual wattage may differ by +/-10%.

ENERGY SAVINGS					
LED		HID			
Wattage	Annual Cost	Source Wattage	Total Wattage Used	Annual Cost	Annual Savings
27	\$12	50	72	\$52	\$40
		70	90	\$59	\$47
		100	129	\$77	\$65

DLC LISTINGS*			
Lumens	3000K	4000K	5000K
	DLC Prod. ID	DLC Prod. ID	DLC Prod. ID
4L	P20ESQJ	P0008SGG	P72US854

DesignLights Consortium qualified luminaires, eligible for rebates from DLC member utilities.





Type: _____

Traditional Wall Light Medium (TMWP)

PHOTOMETRICS

[Back to Quick Links](#)

Luminaire photometry has been conducted by an accredited laboratory in accordance with IESNA LM-79. As specified by IESNA LM-79 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

TMWP 4L UNV 40

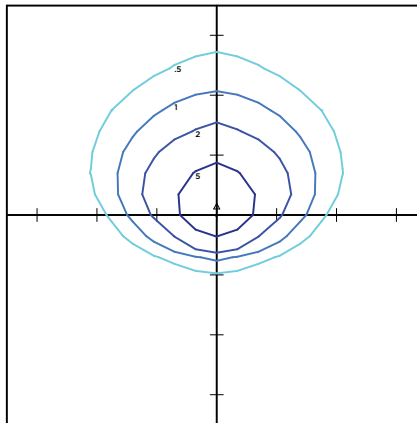
LUMINAIRE DATA

Type 4 Distribution	
Description	4000 Kelvin, 70 CRI
Delivered Lumens	7,157
Watts	61
Efficacy	117
IES Type	Type IV - Very Short
BUG Rating	B1-U5-G4

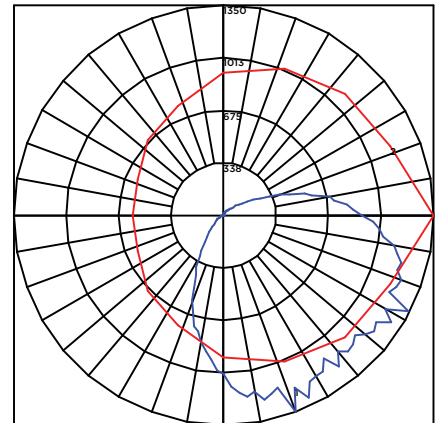
Zonal Lumen Summary

Zone	Lumens	%Luminaire
Low (0-30)°	949	13%
Medium (30-60)°	2299	32%
High (60-80)°	1596	22%
Very High (80-90)°	677	9%
Uplight (90-180)°	1636	23%
Total Flux	7157	100%

ISO FOOTCANDLE




POLAR CURVE



10' Mounting Height/10' Grid Spacing

■ 5 FC ■ 2 FC ■ 1 FC ■ .5 FC



Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: TMWP LED 4L UNV DIM 40 BZA Notes:	Type: WP3 COSKC22-25951
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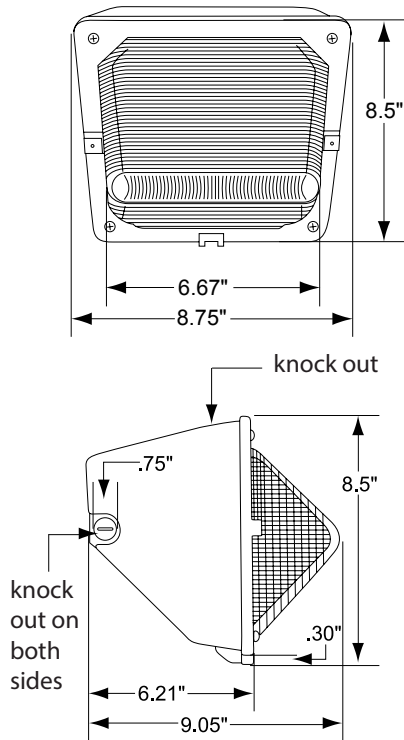


Type: _____

PRODUCT DIMENSIONS

Traditional Wall Light Medium (TMWP)

[Back to Quick Links](#)



Submitted by		Catalog Number:	Type:
C&O SALES	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	423-000021-16 COLORGRAZE COMPACT POWERCORE, RGBW, 8W/FT, 1FT, 10X60DEGREE / 108-000073-02 / 108-000074-03 Notes:	WW COSKC22-25951
Graze Compact Powercore		Date: _____ Type: _____ Firm Name: _____ Project: _____	
		RGBW, 100 to 277 VAC, High Power, 10° x 60°, 305 mm (1 ft)	
<div>Exterior compact linear grazing luminaire with intelligent RGBW light</div> <div><p>Graze Compact Powercore, RGBW is a high-performance, exterior linear luminaire designed to highlight architectural features like molding details, archways and windows up to two stories high. Graze Compact RGBW luminaires adds a separate white LED creating better-quality whites compared to RGB. Multiple luminaire lengths and beam angles support a large range of façade or surface illumination applications. The brand new low-profile housing, connectorized cabling, a universal power input range, and direct line voltage make Graze Compact luminaires easy to install and operate.</p></div> <div><div><ul style="list-style-type: none">• Tailor light output to specific applications—Available in two standard lengths (1 ft and 4 ft), and four standard 10° x 60°, 30° x 60°, 60° x 60°, and 100° x 100° beam angles.• Ultra compact form factor—Graze Compact's ultra-low profile is half the size of Graze, allowing it to fit discretely into almost any layout, from simple to elaborate.• Innovative optical design features fully mixed light directly out of the luminaire. This allows for smaller setbacks than many other luminaires.• Improve color consistency between all LED luminaires in a family with Chromasync technology. During the manufacturing process a calibrated light measurement device creates an algorithm to define a common color gamut for an entire family of LED luminaires. When Chromasync is enabled, color consistency between luminaires is achieved without having to manually adjust color points on each luminaire.• Integrates patented Powercore technology that controls power output to luminaires directly from line voltage – rapidly, efficiently, and accurately. The Color Kinetics Data Enabler Pro merges line voltage with control data and delivers them to luminaires over a single standard cable, dramatically simplifying installation and lowering total system cost.</div><div><ul style="list-style-type: none">• Graze Compact provides years of reliable use under rugged conditions. Graze Compact raises reliability even further with more protection from corrosion by meeting ASTM B117 standard and ANSI C136.31-2010 standard with a 3G vibration rating.• Works seamlessly with the Color Kinetics full range of controllers, including Light System Manager, Video System Manager Pro, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro—as well as third-party controllers.• Convenient push-and-click connectors let you easily and rapidly install Leader Cables and Jumper Cables. Constant torque locking hinges offer simple and consistent position control from various angles.• Customizable accessories - Customize your Graze luminaire with a choice of accessories: mounting arm, masking shield, symmetric louver, and masking tray. Mounting arm available in three sizes.</div></div> <div>For detailed product information, please refer to the Graze Compact Product Guide at www.colorkinetics.com/global/products/rgb/graze-compact-powercore-rgbw/</div>			

 COLOR KINETICS


© Copyright 2022 Color Kinetics, Inc. 277040, High Power, 10x60, 305mm, 1ft

Submitted On: Sep 19, 2022

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Submitted by



Job Name:

LION PETROLEUM CONVENIENCE STORE
- HAMBLÉN PLAZA

Catalog Number:

423-000021-16 COLORGRAZE COMPACT
POWERCORE, RGBW, 8W/FT, 1FT, 10X60DEGREE /
108-000073-02 / 108-000074-03
Notes:

Type:

WW

COSKC22-25951

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Output

Beam Angle	10° x 60°
Lumens [†]	502
Lumens per channel	R 174 / G 325 / B 118 / W 340
Efficacy (lm/W) ^{§§}	60.9
LED Channels	Red/Green/Blue/White

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz
Power Consumption (Maximum at full output, steady state)	8.2 W
Surge Limits [¶]	2 kV maximum differential (L to N) 4 kV maximum common (L to Gnd or N to Gnd)

For additional Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection.

Control

Interface	Data Enabler Pro (DMX or Ethernet)
-----------	------------------------------------

Control System

Color Kinetics full range of controllers, including Light System Manager, Video System Manager Pro, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro, or third-party controllers

Remote Monitoring & Management Works with Interact Landmark

Lumen Maintenance

Threshold§	Ambient Temperature	Reported ^{¶¶}	Calculated ^{¶¶}
L 90	25 °C	> 54,000	> 100,000
	50 °C	> 54,000	> 100,000
L 80	25 °C	> 54,000	> 100,000
	50 °C	> 54,000	> 100,000
L 70	25 °C	> 54,000	> 100,000
	50 °C	> 54,000	> 100,000
L 50	25 °C	> 54,000	> 100,000
	50 °C	> 54,000	> 100,000

Physical

Dimensions (Height x Width x Depth)	45.05 x 306.3 x 42.2 mm (1.77 x 12.06 x 1.66 in)
Weight	0.68 kg (1.5 lb)
Housing Material	Extruded anodized aluminium
Lens	Glass
Luminaire Connections	Integral male/female waterproof connectors
Mounting	Multi-positional, constant torque locking hinges

Temperature Ranges

-40 to 50 °C (-40 to 122 °F) Operating
-20 to 50 °C (-4 to 122 °F) Startup
-40 to 80 °C (-40 to 176 °F) Storage

Vibration Resistance

Complies with ANSI C136.31, 3G

Mechanical Impact	IK07
-------------------	------

Corrosion Resistance

Complies with ASTM B117 standard for > 1,500 hours

Humidity	0 to 95%, non-condensing
----------	--------------------------

Thermal Protection enabled

For additional Thermal Protection information, please refer to <https://colorkinetics.helpdocs.io/article/sh301ducix>


Luminaire Run Lengths

To calculate luminaire run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.colorkinetics.com/support/install_tool/

Certification and Safety

Approbation	UL/cUL, FCC Class A, PSE, CE, CQC, RCM, EAC, BIS, UA
Environment	Dry/Damp/Wet Location, IP66

For additional Energy Efficiency Class Information, please refer to <https://colorkinetics.helpdocs.io/article/cviis2p8qq>.



[†] 305 mm (1 ft) lumen output measurements comply with IES LM-79-08 testing procedures. 610 mm (2 ft), 914 mm (3 ft), and 1219 mm (4 ft) measurements are estimated based on the 305 mm (1 ft) measurements.

[§] Lxx = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

[¶] Minimum surge limits per IEC 61547, tested in accordance with IEC 61000-4-5.

^{§§} Efficacy measurements are estimated based on the 305 mm (1 ft) measurements.

^{¶¶} Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures. In accordance with TM-21-11, Reported values represent the interpolated value based on six times the LM-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

2

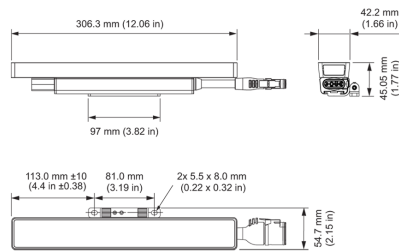
Graze Compact Powercore, RGBW, 100 to 277 VAC, High Power, 10° x 60°, 305 mm (1 ft) Specification Sheet

Submitted On: Sep 19, 2022

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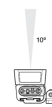
Dimensions



Photometrics High Power, 10° x 60° beam angle, 305 mm (1 ft), max on

Photometric data is based on full hemisphere testing to IES standards.

Beam Angle	10° x 60°
LED	RGBW
Lumens	502.0
Efficacy (lm/W)	60.9



Illuminance at Distance

	Center Beam fc	Beam Width
5.5 ft	36.01 fc	8.4 ft 0.9 ft
11 ft	9 fc	16.8 ft 1.8 ft
16.5 ft	4 fc	25.3 ft 2.7 ft
21.9 ft	2.25 fc	33.7 ft 3.6 ft
27.4 ft	1.44 fc	42.1 ft 4.5 ft
32.9 ft	1 fc	50.5 ft 5.4 ft

32.9 ft (10 m)
1 fc maximum distance

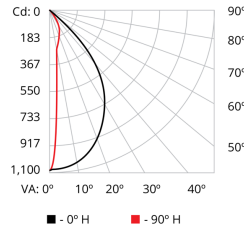
Vert. Spread: 75°
Horiz. Spread: 9.4°

Zonal Lumen

Zone	Lumens	% Luminaire
0-30	277.7	55.10%
0-40	374	74.30%
0-60	477.7	94.80%
60-90	25.9	5.10%
70-100	7.2	1.40%
90-120	0	0%
0-90	503.6	100%
90-180	0	0%
0-180	503.6	100%

For lux multiply fc by 10.71

Polar Candela Distribution





Cd: 0	0	25	45	70	90
183	0	1083	1083	1083	1083
5	1067	881	660	513	485
15	989	355	249	228	224
25	832	216	190	170	164
35	632	157	128	92	81
45	407	106	68	34	27
55	214	59	31	15	13
65	87	26	13	8	6
75	24	8	4	3	2
85	2	1	0	0	0
90	0	0	0	0	0

VA: 0° 10° 20° 30° 40°
■ - 0° H ■ - 90° H

Coefficients of Utilization - Zonal Cavity Method

		Effective Floor Cavity Resistance: 20%																
RCC %:	80	70				50				30				10			0	
RW %:	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR:	0	1.19	1.19	1.19	1.16	1.16	1.16	1	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1
1	1.12	1.09	1.06	1.04	1.11	1.07	1.04	0.92	1.03	1.01	0.99	0.99	0.97	0.96	0.96	0.94	0.93	0.91
2	1.05	1	0.95	0.91	1.03	0.98	0.94	0.83	0.95	0.91	0.88	0.92	0.89	0.86	0.89	0.86	0.84	0.82
3	0.99	0.91	0.86	0.81	0.97	0.9	0.85	0.76	0.87	0.83	0.79	0.85	0.81	0.78	0.82	0.79	0.76	0.75
4	0.93	0.84	0.78	0.73	0.91	0.83	0.77	0.69	0.81	0.76	0.71	0.79	0.74	0.71	0.77	0.73	0.7	0.68
5	0.88	0.78	0.71	0.66	0.86	0.77	0.71	0.64	0.75	0.69	0.65	0.73	0.68	0.65	0.72	0.67	0.64	0.62
6	0.83	0.72	0.66	0.61	0.81	0.72	0.65	0.59	0.7	0.64	0.6	0.68	0.63	0.6	0.67	0.63	0.59	0.57
7	0.78	0.68	0.61	0.56	0.77	0.67	0.6	0.55	0.65	0.6	0.55	0.64	0.59	0.55	0.63	0.58	0.55	0.53
8	0.74	0.63	0.57	0.52	0.73	0.63	0.56	0.51	0.61	0.56	0.52	0.6	0.55	0.51	0.59	0.55	0.51	0.5
9	0.7	0.59	0.53	0.48	0.69	0.59	0.53	0.48	0.58	0.52	0.48	0.57	0.52	0.48	0.56	0.51	0.48	0.46
10	0.67	0.56	0.5	0.45	0.66	0.56	0.49	0.45	0.55	0.49	0.45	0.54	0.49	0.45	0.53	0.48	0.45	0.44

Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: 423-000021-16 COLORGRAZE COMPACT POWERCORE, RGBW, 8W/FT, 1FT, 10X60DEGREE / 108-000073-02 / 108-000074-03 Notes:	Type:  COSKC22-25951
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Luminaire and Accessories

Use Item Number when ordering in North America


Luminaire	Item Number	Item 12NC
Graze Compact Powercore, RGBW, 100 to 277 VAC, High Power, 10° x 60°, 305 mm (1 ft)	423-000021-16	912400136715
Accessories		
Graze Compact Powercore Jumper Cable, 1 ft, CE/CQC	108-000073-01	912400136931
Graze Compact Powercore Jumper Cable, 5 ft, CE/CQC	108-000073-03	912400136933
Graze Compact Powercore Jumper Cable, 10 ft, CE/CQC	108-000073-05	912400136935
Graze Compact Powercore Jumper Cable, 20 ft, CE/CQC	108-000073-07	912400136937
Graze Compact Powercore Jumper Cable, 30 ft, CE/CQC	108-000073-09	912400136939
Graze Compact Powercore Jumper Cable, 1 ft, UL	108-000073-00	912400136930
Graze Compact Powercore Jumper Cable, 5 ft, UL	108-000073-02	912400136932
Graze Compact Powercore Jumper Cable, 10 ft, UL	108-000073-04	912400136934
Graze Compact Powercore Jumper Cable, 20 ft, UL	108-000073-06	912400136936
Graze Compact Powercore Jumper Cable, 30 ft, UL	108-000073-08	912400136938
Graze Compact Powercore Leader Cable, 10 ft, CE/CQC	108-000074-01	912400136941
Graze Compact Powercore Leader Cable, 50 ft, CE/CQC	108-000074-03	912400136943
Graze Compact Powercore Leader Cable, 10 ft, UL	108-000074-00	912400136940
Graze Compact Powercore Leader Cable, 50 ft, UL	108-000074-02	912400136942
Graze Compact Constant Torque Hinge, (Set of 10)	120-000211-00	912400136664
Graze Compact Masking Tray, 305 mm, 1 ft	120-000209-00	912400136656
Graze Compact Masking Tray End Plate, (Pair)	120-000209-04	912400137116
Architectural Mounting Arm, Short, Gray	120-000206-00	912400136642
Architectural Mounting Arm, Medium, Gray	120-000206-01	912400136643
Architectural Mounting Arm, Long, Gray	120-000206-02	912400136644
Graze Compact Symmetric Louver, 305 mm, 1 ft	120-000207-00	912400136648
Graze Compact Tether Anchor, (Set of 10)	120-000211-01	912400136665
Graze Compact Glare Shield, 305 mm, 1 ft	120-000216-01	912400137226
Power Supplies		
Data Enabler Pro, 3/4 in / 1/2 in NPT (U.S. trade size conduit)	106-000004-00	910503701210
Data Enabler Pro, PG21/PG13 (metric size conduit)	106-000004-01	910503701211



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07/14/2022

Color Kinetics
www.colorkinetics.com/global/products/rgb/graze-compact-powercore-rgbw/

Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: 106-000004-00 DATA ENABLER PRO, UL Notes:	Type: WW COSKC22-25951
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Data Enabler Pro

Date: _____
Type: _____
Firm Name: _____
Project: _____

3/4 in / 1/2 in NPT (US trade size
conduit), UL

POWER SUPPLY



Integrated data and power for intelligent LED lighting luminaires employing Powercore technology

Data Enabler Pro delivers integrated data and power to intelligent color and tunable white LED lighting luminaires employing Powercore technology from Color Kinetics. Data Enabler Pro integrates many of the features of the previous generation of Data Enablers, including Data Enabler DMX, Data Enabler Ethernet, and Data Enabler EO. Data Enabler Pro is the single solution for all intelligent Powercore-based installations, whether DMX or Ethernet, color or white, indoors or outdoors.



- Easy installation — Accessible, clearly labeled terminal block connectors for DMX, Ethernet, line voltage, and luminaires make installation easy. Tethered cover with captive screws ensures convenient removal and replacement.
- Supports luminaires employing Powercore technology — Powercore technology rapidly, efficiently, and accurately controls power output to LED lighting luminaires directly from line voltage. Data Enabler Pro merges line voltage and control data and delivers them to Powercore luminaires over a single cable, dramatically simplifying installation and lowering total system cost.
- On-board diagnostics — On-board indicator LEDs provide visual feedback for normal operation, Ethernet connection detection, and Ethernet and DMX data transmission.
- Full support for DMX and Ethernet — Provides inputs and outputs for both DMX and Ethernet, allowing you to connect multiple Data Enabler Pro devices in series. Also provides an Ethernet output terminal for eW Accent MX Powercore and iColor Accent MX Powercore support.
- Outdoor-rated for use in damp and wet environments — Data Enabler Pro offers superior leakage protection in a cast aluminium, IP66-rated enclosure.
- Multiple conduit entries — Data Enabler Pro conduit entries accommodate NPT conduit in US trade sizes of 1/2 in and 3/4 in, or metric sizes of PG13 and PG21.
- Universal power input range — Data Enabler Pro automatically senses mains voltages ranging from 100 – 277 VAC, and passes mains voltages through to all connected lights.
- Designed for maximum energy efficiency — Data Enabler Pro consumes just 20 W maximum. Optional power-saving modes automatically cut power to attached lights when lights are off for a configurable number of minutes.

For more information, please refer to
www.colorkinetics.com/lis/pds/dataenablerpro/

Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: 106-000004-00 DATA ENABLER PRO, UL Notes:	Type:  COSKC22-25951
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Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Electrical

Input Voltage	100 to 277 VAC, auto-ranging, 50/60 Hz*
Maximum Input Current	16.5 A maximum
Load Current	16 A maximum
Power Consumption	20 W maximum

For Surge Protection Requirements for LED Lighting Systems, please refer to www.colorkinetics.com/KB/surge-protection.

Connections

Threaded Openings	3/4 in NPT for power / 1/2 in NPT for data (US trade)
-------------------	---

Data Input Source
Color Kinetics full range of controllers, third-party DMX controllers, or KiNET-compatible§ third-party Ethernet controllers§

Power Input	3-wire PC terminal block connector†
-------------	-------------------------------------

Power/Data Output	4-wire PC terminal block connector† 4-wire IDC terminal block connector (eW Accent MX Powercore and iColor Accent MX Powercore only)‡
-------------------	--

DMX Input/Output	Double-pair, double-entry IDC connectors‡
------------------	---

Ethernet Input/Output	Double-pair, double-entry IDC connectors‡
-----------------------	---

* Verify that the line voltage is appropriate for the lighting luminaires in your installation. See a specific luminaire's documentation for supported line voltages.

† PC terminal block connectors accept recommended wire sizes from 8 to 18 AWG (8.37 – 0.823 mm2).

‡ IDC connectors accept wire sizes from 22 – 26 AWG (0.326 – 0.129 mm2).

§ KiNET is the Ethernet lighting protocol from Color Kinetics.

Physical

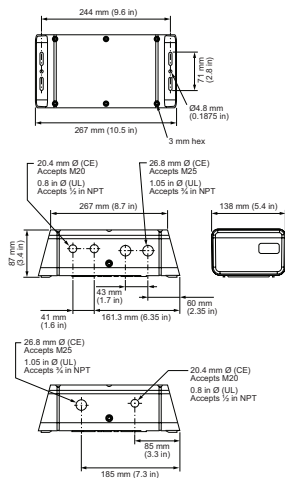
Dimensions (Height x Width x Depth)	87 x 267 x 138 mm (3 x 11 x 5.4 in)
Weight	2.4 kg (5.4 lb)
Housing	Cast aluminium enclosure with slots for surface mounting. Powder-coated industrial gray matte.
Operating Temperature	-40 to 50 °C (-40 to 122 °F)
Startup Temperature	-20 to 50 °C (-4 to 122 °F)
Storage Temperature	-40 to 80 °C (-40 to 176 °F)
Humidity	0 to 95%, non-condensing
Cooling	Convection
Heat Dissipation	20 W

Certification and Safety

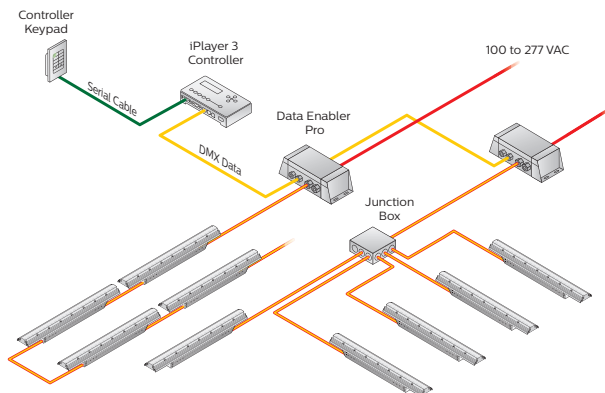
Certification	UL/cUL, FCC Class A, CE, C-Tick
Environment	Dry/Damp/Wet Location, IP66



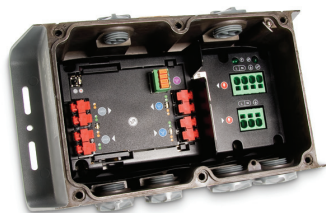
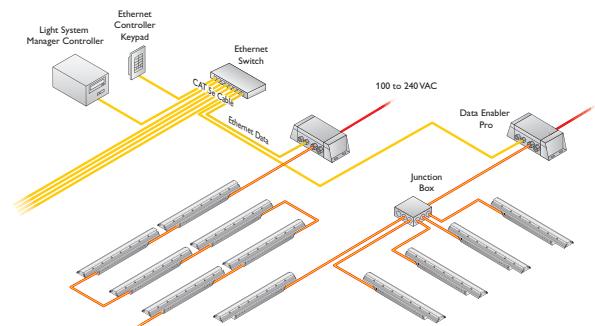
Dimensions





DMX Configuration



Ethernet Configuration



Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: 106-000004-00 DATA ENABLER PRO, UL Notes:	Type:  COSKC22-25951
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Part Numbers

Use Item Number when ordering in North America.

Power Supply

Data Enabler Pro 3/4 in / 1/2 in NPT (US trade size conduit), UL

Item Number

106-000004-00

Item 12NC


910503701210



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Color Kinetics
www.colorkinetics.com

DAS-000052-01 R07 1/28/2019

Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: 103-000019-00 CONTROLLER, IPLAYER 3/COLORPLAY 3 Notes:	Type: WW COSKC22-25951
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iPlayer 3, ColorPlay 3, 100-240V

Date: _____
Type: _____
Firm Name: _____
Project: _____

North America Power Cord

CONTROLLER


Author, configure, and control dynamic LED light shows for DMX lighting networks

iPlayer 3 controller is a compact yet powerful show storage and playback device capable of delivering light shows to installations with up to 340 unique light addresses. Packaged with ColorPlay 3 light show authoring software, iPlayer 3 is designed to add new levels of sophistication and flexibility to your lighting installations while eliminating the need for expensive lighting boards and technical programming expertise.



- Easy to use—With factory preset shows, custom show-authoring capabilities, an intuitive LCD interface, removable SD card storage, and onboard light addressing features, iPlayer 3 enables you to spend more time on the creative aspects of lighting design and less time on setup.
- Packaged with ColorPlay 3 light show authoring software—ColorPlay 3 gives you the flexibility to create and manage light shows using fully customizable effects, multi-track editing, timeline layering, and transition styles.
- Designed for use with the optional Controller Keypad—Controller Keypad is a wall-mounted user interface providing instant pushbutton playback of up to eight light shows.
- Supports the optional AuxBox expansion device—AuxBox automatically triggers up to eight iPlayer 3 light shows using any remote triggering device with a dry-contact closure. Via the AuxBox, you can trigger light shows by motion sensors, third party control or sensor systems, and more.
- Control two DMX universes—iPlayer 3 has two DMX output ports, each controlling a universe of 512 DMX channels.
- Automate show playback—Set alarms to automatically trigger show playback based on a specific date, day of the week, weekdays, weekends, or an astronomical event, such as sunrise or sunset.

For more information, please refer to
www.colorkinetics.com/ls/controllers/iplayer3/

Submitted by 	Job Name: LION PETROLEUM CONVENIENCE STORE - HAMBLÉN PLAZA	Catalog Number: 103-000019-00 CONTROLLER, IPLAYER 3/COLORPLAY 3 Notes:	Type: WW COSKC22-25951
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Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Electrical

Input Voltage 100 to 240 VAC, 50/60 Hz, 5 W

Control

Capability 2 universes of 512 DMX addresses each

Computer Interface USB 2.0

External/Auxiliary Interface Two DMX512 RJ45 ports.
Two RS-232 9-pin serial ports.

Data Storage Removable industrial grade secure digital card

Physical

Dimensions 209 x 137 x 33 mm (8.2 x 5.4 x 1.3 in)
(Height x Width x Depth)

Weight 0.5 kg (1.2 lb)

Housing Polycarbonate

Operating Temperature -10 to 40 °C (14 to 104 °F)


Humidity 0 to 95%, non-condensing

Certification and Safety

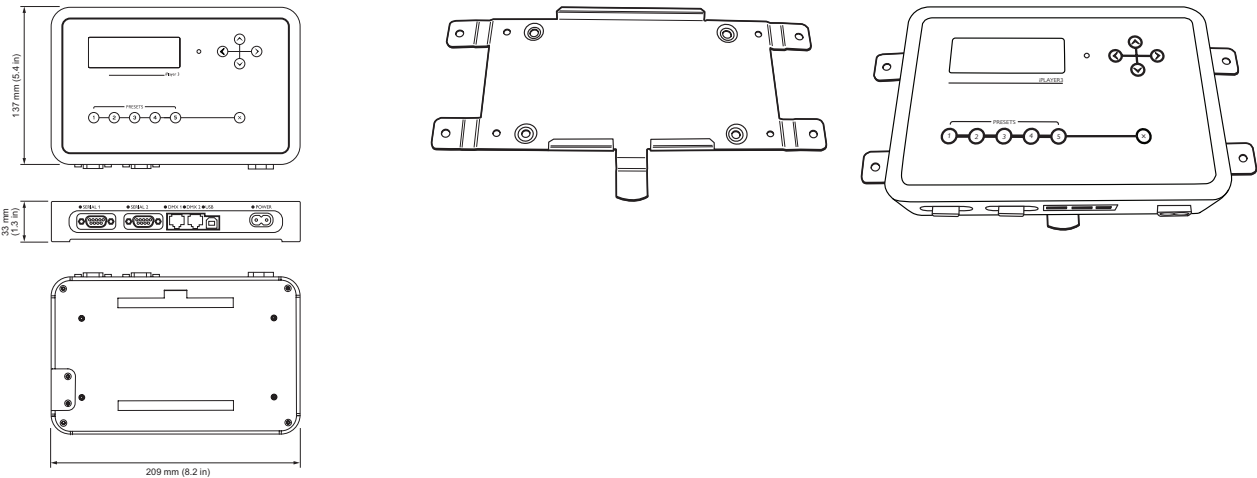
Certification UL/cUL, FCC Class B, CE, CQC, C-Tick



Environment Dry Location, IP20



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Dimensions



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Part Numbers

Use Item Number when ordering in North America.

Controller	Item Number	Item 12NC
iPlayer 3, ColorPlay 3, 100-240V North America Power Cord	103-000019-00	910403327101
Accessories		
Controller Keypad, DB-9 Serial	103-000020-00	910503700223
AuxBox, DB-9 Serial	103-000021-01	910503702433
Replacement 512 MB Industrial SD Card	120-000199-00	912400135915



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Color Kinetics
www.colorkinetics.com

DAS-000020-01 R08 1/28/2019



AREA LIGHT



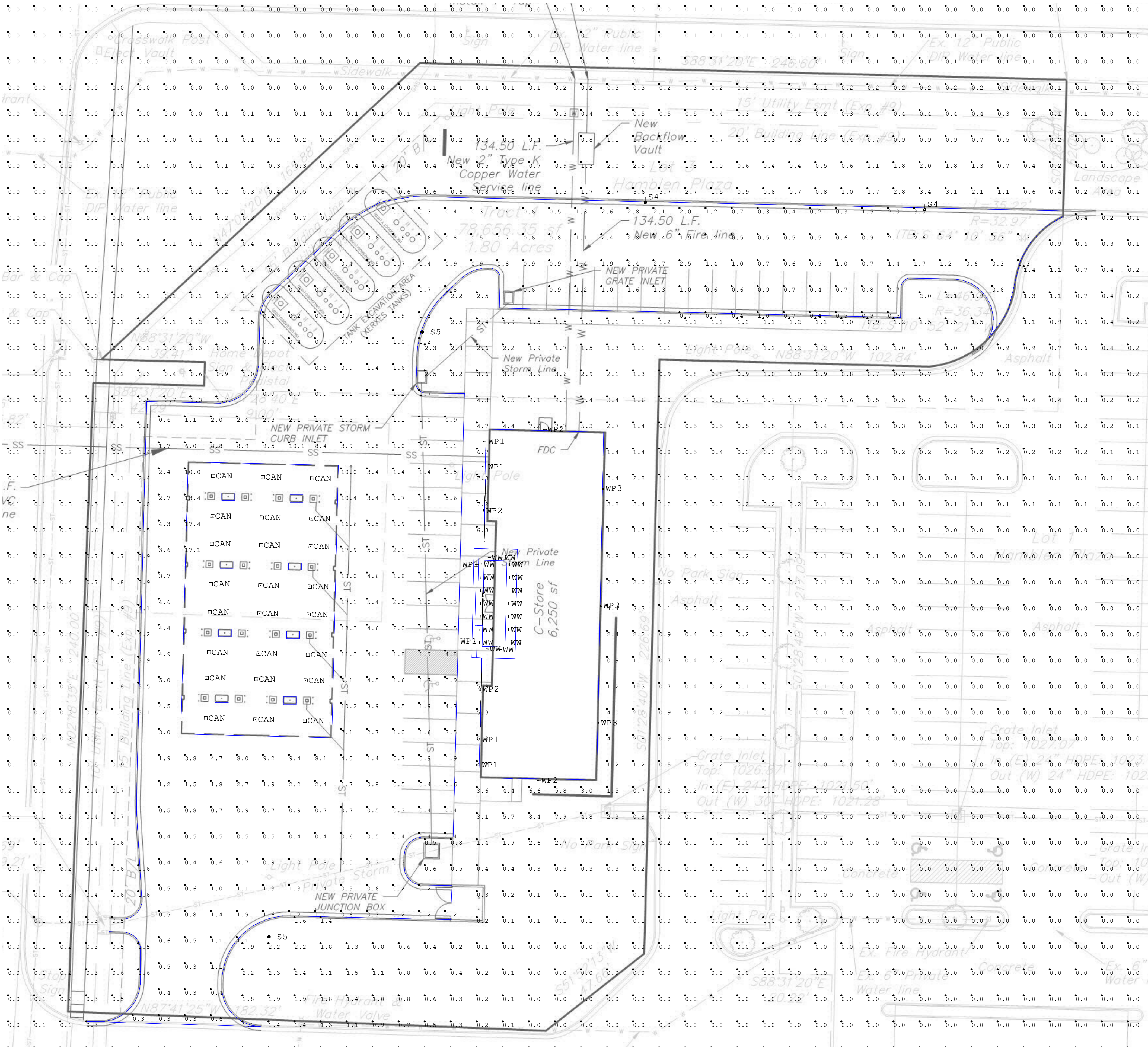
GOOSENECK



WALL PACK



RGBW WW



FOOTCANDLE MEASURED AT GRADE

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts
□	24	CAN	Single	PROVIDED BY GAS CANOPY MFG	1.000	14399	102
●	2	S4	Single	XDLM-FT-LED-HO-NW - 25 MTG	1.000	19830	133
●	2	S5	Single	XDLM-5W-LED-HO-NW - 25 MTG	1.000	19622	133
⊙	6	WP1	Single	AD-15L-40-GWT - 8 MTG	1.000	1388	10.9
⊙	4	WP2	Single	XWM-3-LED-08L-40 - 11 MTG	1.000	8778	64
⊙	3	WP3	Single	TMWP-LED-04L-40 - 11 MTG	1.000	3913	31.23
⊙	18	WW	Single	ColorGraze Compact PC RGBW 10X60 High Output MAX	1.000	504	12.911
Calculation Summary							
Label				CalcType	Units	Avg	Max
PARKING LOT_Top				Illuminance	Fc	2.13	18.0
					Min	Avg/Min	Max/Min
					0.2	10.65	90.00