MURPHY OIL USA, INC.

MURPHY USA (NTI) #25181 SITE IMPROVEMENT PLAN

LOT 3, PARK MEADOWS, TOWN CENTER FILING NO.1 -A, 3RD AMENDMENT
LOCATED IN THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 3
TOWNSHIP 6 SOUTH, RANGE 67 WEST OF THE PRINCIPAL MERIDIAN

0.97 ACRES

SP26-0007

LONE TREE SITE IMPROVEMENT PLAN (SIP) NOTES

1. THE PROPERTY DESCRIBED HEREIN IS SUBJECT TO ALL APPLICABLE REQUIREMENTS OF THE LONE TREE ZONING CODE AND DESIGN STANDARDS, INCLUDING BUT NOT LIMITED TO, PROPERTY MAINTENANCE, LIGHTING, PARKING, SIGNAGE, LANDSCAPING AND OUTDOOR STORAGE, EXCEPT AS MAY OTHERWISE BE ADDRESSED IN AN APPROVED PLANNED DEVELOPMENT PLAN, SUBAREA PLAN, OR OTHER APPLICABLE PLAN OR AGREEMENT APPROVED BY THE CITY.

2. THE APPLICANT ASSUMES RESPONSIBILITY TO ENSURE THE PROJECT IS COMPLETED IN ACCORDANCE WITH THE APPROVED SIP AND ANY ASSOCIATED MATERIALS SAMPLE BOARDS AND FURTHER ASSUMES THE RISK ASSOCIATED WITH ANY CHANGES OR OMISSIONS MADE WITHOUT PRIOR CITY APPROVAL. MODIFICATIONS TO STRUCTURES OR SITES MAY REQUIRE AN AMENDMENT TO THE SIP AS DETERMINED BY THE CITY'S COMMUNITY DEVELOPMENT DIRECTOR, PER SEC. 16-27-180. UNAUTHORIZED CHANGES OR OMISSIONS MADE WITHOUT PRIOR CITY APPROVAL CORRECTIVE ACTIONS, DELAY OF PERMITS OR CITATIONS FOR ZONING VIOLATIONS WITH ASSOCIATED FINES AND LEGAL MEASURES. BUILDING PLANS SHALL CONFORM TO THE APPROVED SIP.

3. WITHIN SITE TRIANGLES, AS SHOWN, LIMITED LANDSCAPING SHALL BE ALLOWED WITH NO SOLID STRUCTURES PERMITTED AS STATED IN THE CITY OF LONE TREE'S LANDSCAPE DESIGN GUIDELINES AND STANDARDS FOR LANDSCAPING. LANDSCAPING WITHIN THE SIGHT TRIANGLE SHALL BE MAINTAINED BY THE PROPERTY OWNER OR APPROPRIATE ASSOCIATION OR DISTRICT, AS MAY BE IDENTIFIED IN MAINTENANCE AGREEMENTS RECORDED WITH THE DOUGLAS COUNTY CLERK AND RECORDER'S OFFICE.

4. THE OWNER IS RESPONSIBLE FOR THE INSTALLATION OF ALL ROADWAY SIGNAGE, INCLUDING 'NO PARKING/FIRE LANE' SIGNAGE, AS REQUIRED BY THE CITY PUBLIC WORKS DEPARTMENT AND/OR THE FIRE DISTRICT. SUCH SIGNAGE SHALL BE MAINTAINED BY THE PROPERTY OWNER OR APPROPRIATE ASSOCIATION OR DISTRICT, AS MAY BE IDENTIFIED IN MAINTENANCE AGREEMENTS RECORDED WITH THE DOUGLAS COUNTY CLERK AND RECORDER'S OFFICE.

5. SITE LANDSCAPING, SITE AMENITIES AND FURNISHINGS, AND ALL SITE IMPROVEMENTS INCLUDING, BUT NOT LIMITED TO, SIDEWALKS AND PARKING AREAS SHALL BE MAINTAINED IN A STATE OF GOOD REPAIR CONSISTENT WITH THE APPROVED SIP AND THE LONE TREE MUNICIPAL CODE AND DESIGN GUIDELINES AND STANDARDS. SUCH MAINTENANCE SHALL INCLUDE THE REGULAR MAINTENANCE OF PET WASTE STATIONS (WHEN PRESENT), TO INCLUDE WASTE COLLECTION AND WASTE BAG REPLACEMENT. LANDSCAPE PLANTINGS MUST BE ALIVE AND ALL IRRIGATION MUST BE FUNCTIONAL. ALL MAINTENANCE OBLIGATIONS SHALL BE COMPLETED BY THE PROPERTY OWNER OR APPROPRIATE ASSOCIATION OR DISTRICT, AS MAY BE IDENTIFIED IN MAINTENANCE AGREEMENTS RECORDED WITH THE DOUGLAS COUNTY CLERK AND RECORDER'S OFFICE.

6. THE CITY OF LONE TREE REQUIRES THAT MAINTENANCE ACCESS BE PROVIDED TO ALL STORM DRAINAGE FACILITIES TO ASSURE CONTINUOUS OPERATIONAL CAPABILITY OF THE SYSTEM. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL DRAINAGE FACILITIES, INCLUDING INLETS, PIPES, CULVERTS, CHANNELS, DITCHES, HYDRAULIC STRUCTURES AND DETENTION BASINS LOCATED ON THEIR LAND UNLESS MODIFIED BY THE SITE IMPROVEMENT PLAN IMPROVEMENTS AGREEMENT. SHOULD THE OWNER FAIL TO ADEQUATELY MAINTAIN SAID FACILITIES, THE CITY OF LONE TREE SHALL HAVE THE RIGHT TO ENTER SAID LAND FOR THE PURPOSES OF OPERATIONS AND MAINTENANCE. ALL SUCH MAINTENANCE COSTS WILL BE ASSESSED TO THE PROPERTY OWNER OR THE RESPONSIBLE MAINTENANCE AUTHORITY.

7. ANY SIGNS DEPICTED IN THIS PLAN ARE CONCEPTUAL ONLY, HAVE NOT BEEN APPROVED BY THE CITY, AND ARE NOT TO BE UTILIZED FOR THE PURPOSES OF DEVELOPING BUILDING PLANS. ALL FUTURE SIGNS ARE SUBJECT TO A SEPARATE SIGN PERMIT APPROVAL PROCESS IN ACCORDANCE WITH CHAPTER 16, ARTICLE XXIX OF LONE TREE CITY CODE.

WETLANDS NOTE

ANY DEVELOPMENT, EXCAVATION, CONSTRUCTION, OR FILLING IN A U.S. ARMY CORPS OF ENGINEERS DESIGNATED WETLAND IS SUBJECT TO LOCAL, STATE AND FEDERAL APPROVALS. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND/OR RESTRICTIONS AND ANY VIOLATION WILL BE SUBJECT TO FEDERAL PENALTY. THE CONTRACTOR SHALL HOLD THE OWNER/DEVELOPER, THE ENGINEER AND THE LOCAL GOVERNING AGENCIES HARMLESS AGAINST SUCH VIOLATION.

FLOOD CERTIFICATION

THIS PROPERTY IS NOT LOCATED WITHIN ANY PRESENTLY ESTABLISHED 100-YEAR FLOOD PLAIN, AS SHOWN BY THE FEDERAL MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP FOR THE CITY OF LONE TREE, COMMUNITY PANEL NUMBER 0034G, DATED 3/16/2016.

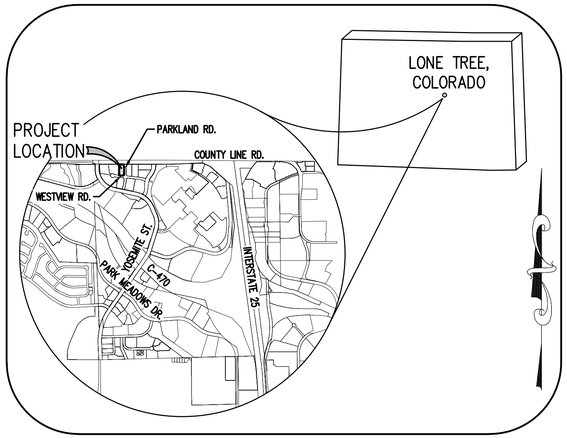
CITY COUNCIL APPROVAL

THIS SITE IMPROVEMENT PLAN WAS APPROVED FOR FILING BY THE COUNCIL OF THE CITY OF LONE TREE, CO, ON THE ___ DAY OF _____ 20___ SUBJECT TO ANY CONDITIONS SPECIFIED HEREON. ALL EXPENSES INCURRED WITH RESPECT TO IMPROVEMENTS FOR ALL UTILITY SERVICES, PAVING, GRADING, LANDSCAPING, CURBS, GUTTERS, SIDEWALKS, ROAD LIGHTING, ROAD SIGNS, FLOOD PROTECTION DEVICES, DRAINAGE STRUCTURES AND ALL OTHER IMPROVEMENTS THAT MAY BE REQUIRED SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND NOT THE CITY.

THIS ACCEPTANCE DOES NOT GUARANTEE THAT THE SOIL CONDITIONS, SUBSURFACE GEOLOGY, GROUNDWATER CONDITIONS OR FLOODING CONDITIONS OF ANY SITE SHOWN HEREON ARE SUCH THAT A BUILDING PERMIT WILL BE ISSUED.

SIGNED: _____

MARISSA HARMON, MAYOR, CITY OF LONE TREE



VICINITY MAP
1"=2000'

SHEET INDEX

SHEET NUMBER	SHEET TITLE
1	COVER SHEET (SIP)
2	SITE IMPROVEMENT PLAN
3	SIGNAGE & STRIPING PLAN
4	QUEUING ANALYSIS
5	SNOW STORAGE
6	SITE CIRCULATION PLAN
7	SITE FURNISHINGS
8	GRADING PLAN
9	DRAINAGE PLAN
10	UTILITY PLAN
11	LANDSCAPE PLAN
12	TREE PRESERVATION PLAN
13	LANDSCAPE NOTES & DETAILS
14	IRRIGATION PLAN
15	IRRIGATION NOTES & DETAILS
16	IRRIGATION NOTES & DETAILS
A-1	ARCHITECTURAL ELEVATIONS (BUILDING)
A-2	ARCHITECTURAL ELEVATIONS (BUILDING)
A-3	ARCHITECTURAL ELEVATIONS (CANOPY & DUMPSTER ENCLOSURE)
A-3.1	ARCHITECTURAL COLORED ELEVATIONS (BUILDING)
L1.0	PHOTOMETRIC SITE PLAN
L1.1	PHOTOMETRIC DETAILS

RESOURCE LIST

PLANNING & ZONING
CITY PLANNING
9220 KIMMER DR., SUITE 100
LONE TREE, CO 80124
CONTACT: ROSHANA FLOYD
(303) 708-1818

STORMWATER
STORMWATER MANAGEMENT
9220 KIMMER DR., SUITE 100
LONE TREE, CO 80124
(303) 708-1818

ELECTRIC
XCEL ENERGY
2070 S VALENTIA ST
DENVER, CO, 80231
(303) 671-3830

SEWER & WATER
SOUTHGATE WATER & SANITATION DISTRICT
3722 E ORCHARD ROAD
CENTENNIAL, CO 80121
(303) 779-0261

TANK AND PRODUCT PIPING
GALLOWAY & COMPANY, LLC
5500 GREENWOOD PLAZA BLVD SUITE 200
GREENWOOD VILLAGE, 80111
CONTACT: DAVE JONES
(303) 962-8506

HEALTH DEPARTMENT
DOUGLAS COUNTY HEALTH DEPARTMENT
11045 E LANSING CIRCLE, 3RD FLOOR
ENGLEWOOD, CO 80112
(720) 643-2400

GEOTECHNICAL
UNITED CONSULTING
625 HOLCOMB BRIDGE ROAD
NORCROSS, GA300071
CONTACT:NHAN "YUNG" DANG
(720) 209-0029

BUILDING CANOPY MANUFACTURER
FREY MOSS STRUCTURES
1801 ROCKDALE INDUSTRIAL BLVD.
CONYERS, GEORGIA 30012
CONTACT: JENNIFER GOODMAN
(770) 483-7543 EXT. 151

BUILDING/CANOPY DESIGN
GREENBERG FARROW
3 EXECUTIVE DRIVE, SUITE 150
SOMERSET, NJ 08873
CONTACT: CHRIS CERBO
(732) 537-0832

OWNER
MURPHY OIL USA, INC.
200 PEACH STREET
EL DORADO, AR 71730
PM: GRANT DENNIS
(870) 315-3430

CIVIL ENGINEER
GALLOWAY & COMPANY, INC.
5500 GREENWOOD PLAZA BLVD., SUITE 200
COLORADO SPRINGS, CO 80920
CONTACT: JOE PARK, P.E.
(303) 770-8884

LANDSCAPE
GALLOWAY & COMPANY, INC.
1155 KELLY JOHNSON BLVD., SUITE 305
COLORADO SPRINGS, CO 80920
CONTACT: JON ROMERO, P.L.A.
(719) 308-2532

FIRE DEPARTMENT
SOUTH METRO FIRE RESCUE
9195 E MINERAL AVE
CENTENNIAL, CO 80112
(720) 989-2000

GALLOWAY & COMPANY, INC.
5500 GREENWOOD VILLAGE BLVD., SUITE 200
GREENWOOD VILLAGE, CO 80111
(303) 770-8884
CONTACT: JOE PARK

BASED ON SURVEY BY:
GALLOWAY & COMPANY, INC.
1155 KELLY JOHNSON BLVD., SUITE 305
COLORADO SPRINGS, CO 80920
EMAIL: JOHNHOUSTON@GALLOWAYUS.COM
PHONE: (719) 337-7232
DATE: 01/29/26

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
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NOT FOR CONSTRUCTION

MURPHY OIL USA, INC
SITE IMPROVEMENT PLANS

9091 WESTVIEW ROAD
LONE TREE, COLORADO 80124

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Project No: MOC148
Drawn By: SE
Checked By: JDP
Date: 11/05/2026

COVER SHEET (SIP)

1
Sheet 1 of 15

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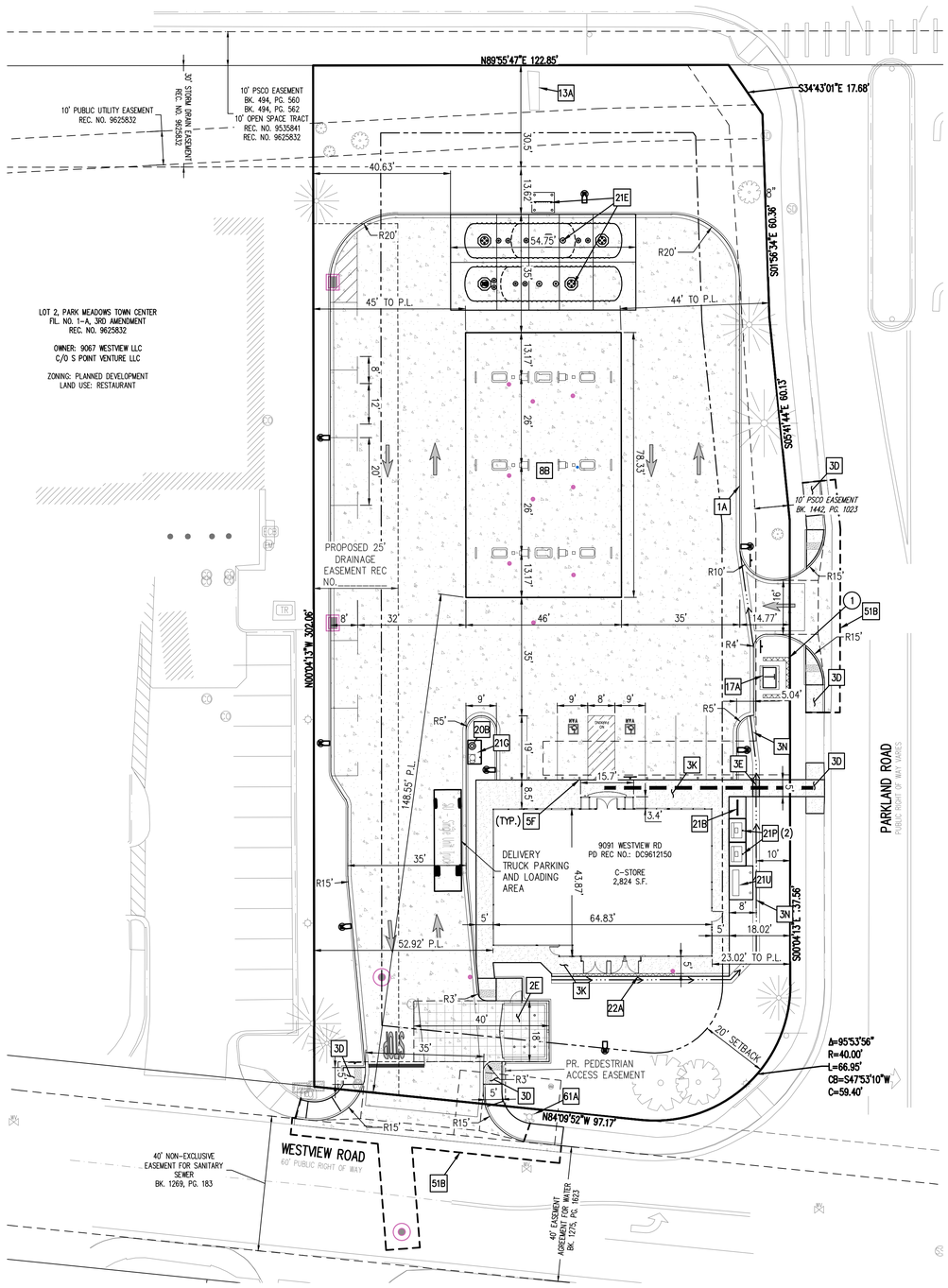
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TOWNSHIP 6 SOUTH, RANGE 67 WEST OF THE PRINCIPAL MERIDIAN

0.97 ACRES

SP26-0007



SITE DATA TABLE		
ITEM	**SQUARE FOOTAGE**	**% OF GROSS**
GROSS SITE AREA	42,332	100
BUILDING FOOTPRINT	2,824	6.7
PARKING/ ROADS	30,248	56.2
LANDSCAPE AREA	12,084	28.6
FUEL CANOPY	3,603	8.5
ITEM	**SQUARE FOOTAGE**	
BUILDING SIZE		
HEIGHT	18'-6"	
TOTAL FLOOR AREA	2,824 SF	
ITEM	**SPACES**	
PARKING		
GAS CANOPY PARKING	12	
PARALLEL PARKING	7	
CONVENIENCE STORE PARKING	6	
ADA SPACES AT CONVENIENCE STORE	1	
EMPLOYEE PARKING	2	
TOTAL REQUIRED	26 (PER REQUESTED VARIANCE)	
TOTAL PROVIDED	26	
BICYCLE PARKING		
TOTAL REQUIRED (2% AUTOMOBILE PARKING PROVIDED)	1	
TOTAL PROVIDED	2	

SITE NOTES

1A	INTEGRAL CONCRETE CURB
2E	DUMPSTER ENCLOSURE
3D	CONCRETE SIDEWALK
3E	2' SIDEWALK CHASE
3K	CONCRETE SIDEWALK AROUND BUILDING
3N	2' CONCRETE PAN
5F	STEEL BOLLARD W/COVER (SINGLE)
8B	OVERHEAD CANOPY (TYP. PER CANOPY PLANS)
13A	EXISTING MONUMENT SIGN TO REMAIN PER LICENSE AGREEMENT RECORDATION NO. _____
17A	TRANSFORMER
20B	TRASH RECEPTACLE
21B	5'x6.5' BIKE RACK CONCRETE SLAB
21E	UNDERGROUND STORAGE TANKS (1-25,000 GAL. & 1-26,000 GAL.) & TANK VENTS
21F	VENT RISER
21G	AIR/VACUUM UNIT WITH 4'X7' CONCRETE SLAB
21P	5'x7' ICE UNIT
21U	7'x10' CONCRETE SLAB FOR PROPANE TANKS
22A	PROPOSED SCREENING WALL
51B	LIMITS OF SAWCUT AND PAVEMENT REMOVAL
61A	EXISTING FIRE HYDRANT TO REMAIN

GENERAL SITE NOTES

1. ALL DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
2. ALL CURB RETURN RADII SHALL BE 5', AS SHOWN TYPICAL ON THIS PLAN, UNLESS OTHERWISE NOTED.

SITE KEYNOTES

1 INSTALL 7' TALL 10 GAGE WWF SCREEN WALL (SEE ARCHITECTURAL ELEVATIONS FOR DETAILS INCLUDING COLOR).

BUILDING SETBACKS		
	REQUIRED	PROVIDED
NORTH:	20'	200.96'
WEST:	20'	52.92'
SOUTH:	20'	47'
EAST:	20'	23.02'

ZONING: PD (PLANNED DEVELOPMENT)

SITE LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- ROAD CENTERLINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- SIGHT TRIANGLE
- PROPOSED SAWCUT LINE
- PROPOSED PAN FLOWLINE
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- ADA PATH OF TRAVEL
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED PIPE BOLLARD
- PROPOSED ADA PARKING SYMBOL
- PROPOSED DETECTABLE WARNING TRUNCATED DOMES
- PROPOSED TRASH RECEPTACLE
- PROPOSED SITE CONCRETE
- PROPOSED HEAVY DUTY CONCRETE
- PROPOSED PERIMETER SIDWALK
- EXISTING TREE

UTILITY LEGEND

- EXISTING ELECTRIC LIGHT POLE
- ECB EXISTING ELECTRIC CONTROL BOX
- TR EXISTING PAD MOUNTED TRANSFORMER
- T PROPOSED PAD MOUNTED TRANSFORMER
- FO EXISTING FIBER OPTIC PEDESTAL
- EM EXISTING ELECTRIC METER
- CO EXISTING SANITARY SEWER CLEANOUT
- SS EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE
- SD EXISTING SANITARY STORM MANHOLE
- PROPOSED STORM SEWER MANHOLE
- PROPOSED OUTLET STRUCTURE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- WM EXISTING WATER METER
- PROPOSED SITE LIGHT

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SITE IMPROVEMENT PLAN

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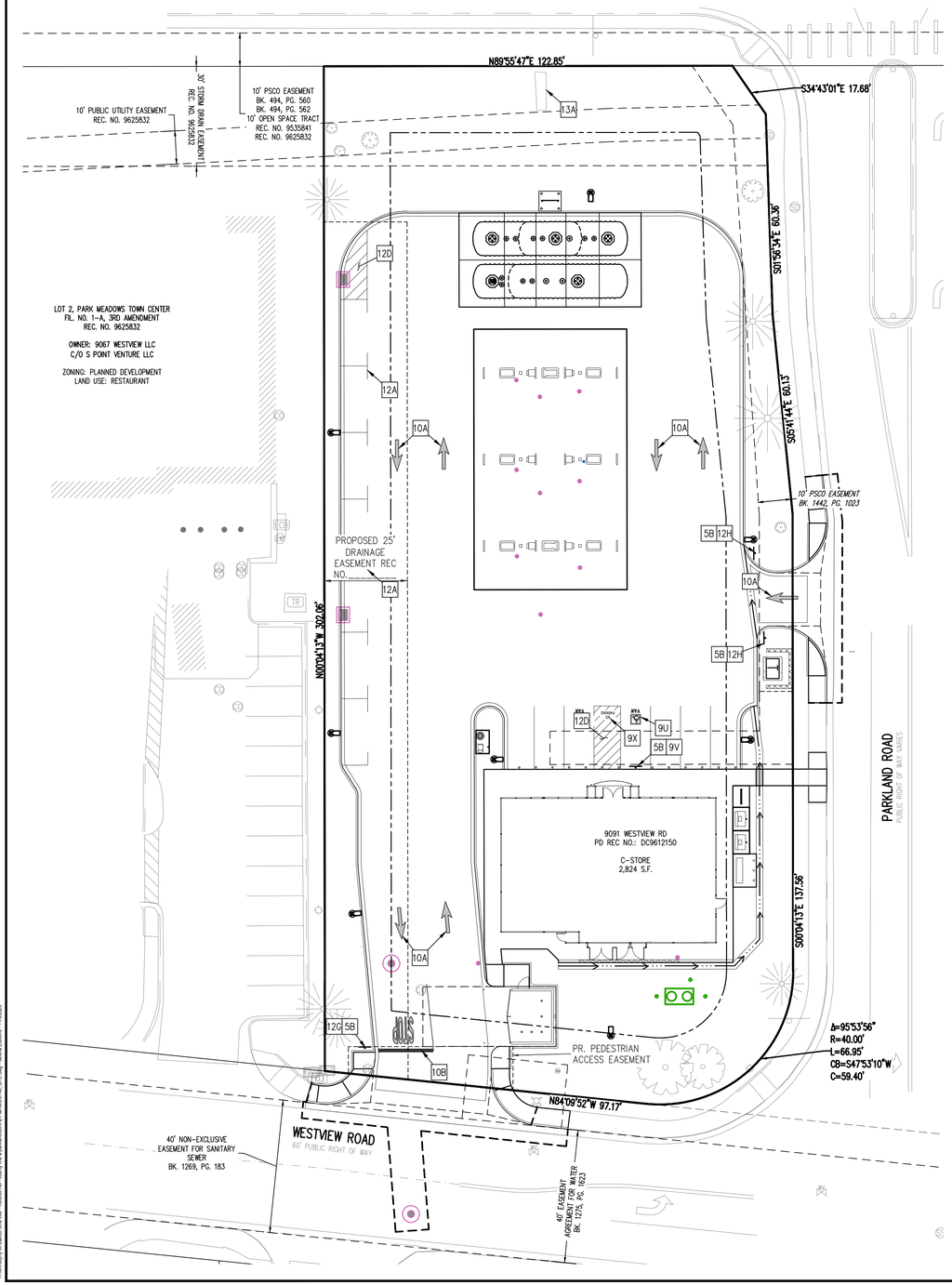
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0.97 ACRES

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SITE LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- ROAD CENTERLINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- SIGHT TRIANGLE
- PROPOSED SAWCUT LINE
- PROPOSED PAN FLOWLINE
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED PIPE BOLLARD
- PROPOSED ADA PARKING SYMBOL
- PROPOSED DETECTABLE WARNING TRUNCATED DOMES
- PROPOSED TRASH RECEPTACLE
- EXISTING TREE

SITE NOTES

5B	TRAFFIC SIGN IN BOLLARD
9U	ACCESSIBLE PARKING SYBMOL
9V	ACCESSIBLE / VAN ACCESSIBLE PARKING SIGN MOUNTED IN BOLLARD
9X	"NO PARKING" PAINTED ON PAVEMENT
10A	DIRECTIONAL ARROW ON PAVEMENT
10B	STOP BAR
12A	4" YELLOW LANE STRIPE (SEE SIZE INDICATED AT SYMBOL)
12D	4" WIDE PAINTED STRIPES, 2' O.C. @ 45° (SEE SIZE INDICATED AT SYMBOL)
12G	"STOP" SIGN
12H	"DO NOT ENTER" SIGN
13A	EXISTING MONUMENT SIGN TO REMAIN PER LICENSE AGREEMENT RECORDATION NO. _____

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SIGNAGE & STRIPING PLAN

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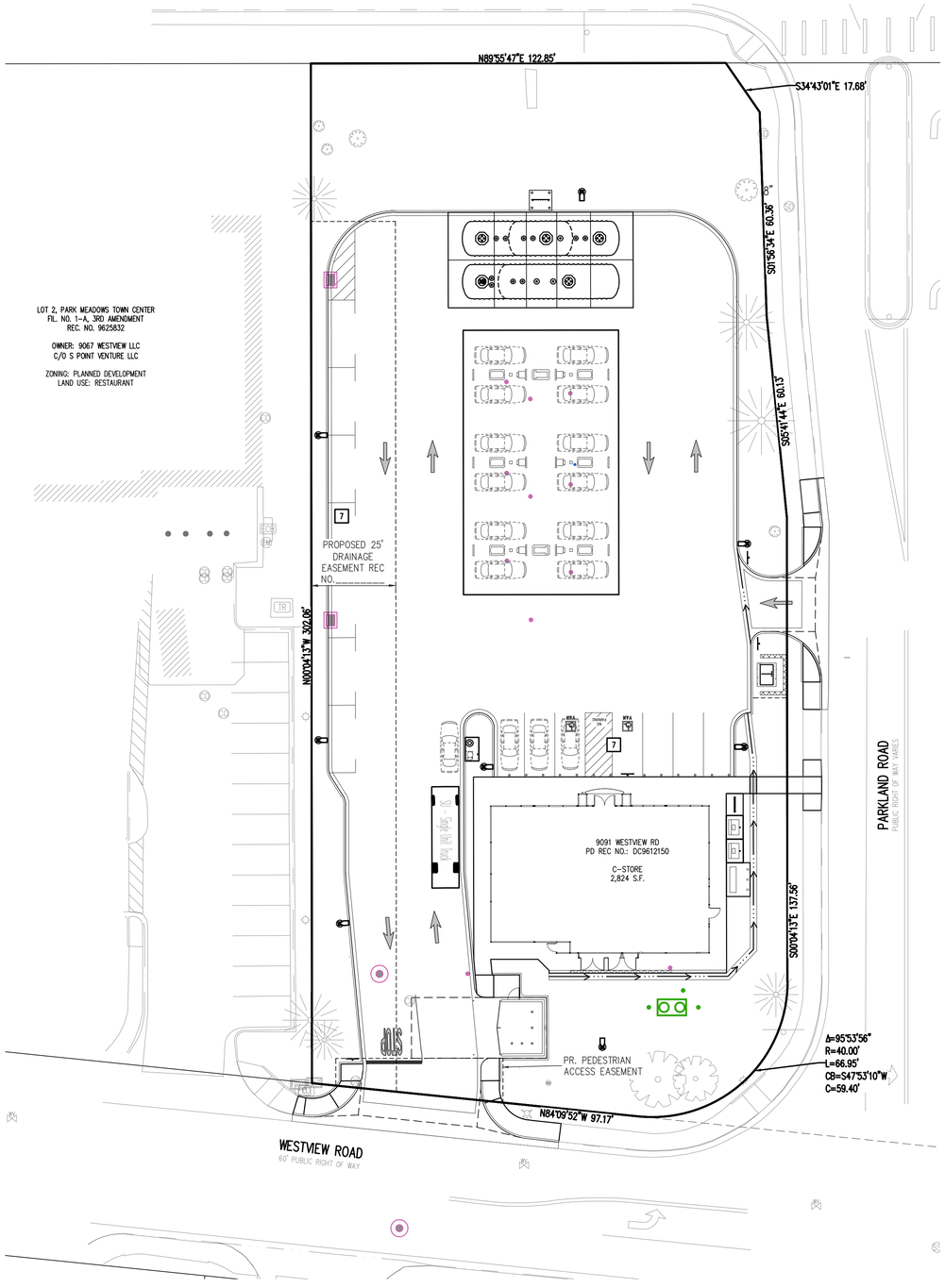
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- PROPOSED DETECTABLE WARNING TRUNCATED DOMES
- PROPOSED TRASH RECEPTACLE
- EXISTING TREE

UTILITY LEGEND

- EXISTING ELECTRIC LIGHT POLE
- EXISTING ELECTRIC CONTROL BOX
- EXISTING PAD MOUNTED TRANSFORMER
- PROPOSED PAD MOUNTED TRANSFORMER
- EXISTING FIBER OPTIC PEDESTAL
- EXISTING ELECTRIC METER
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QUEUING ANALYSIS

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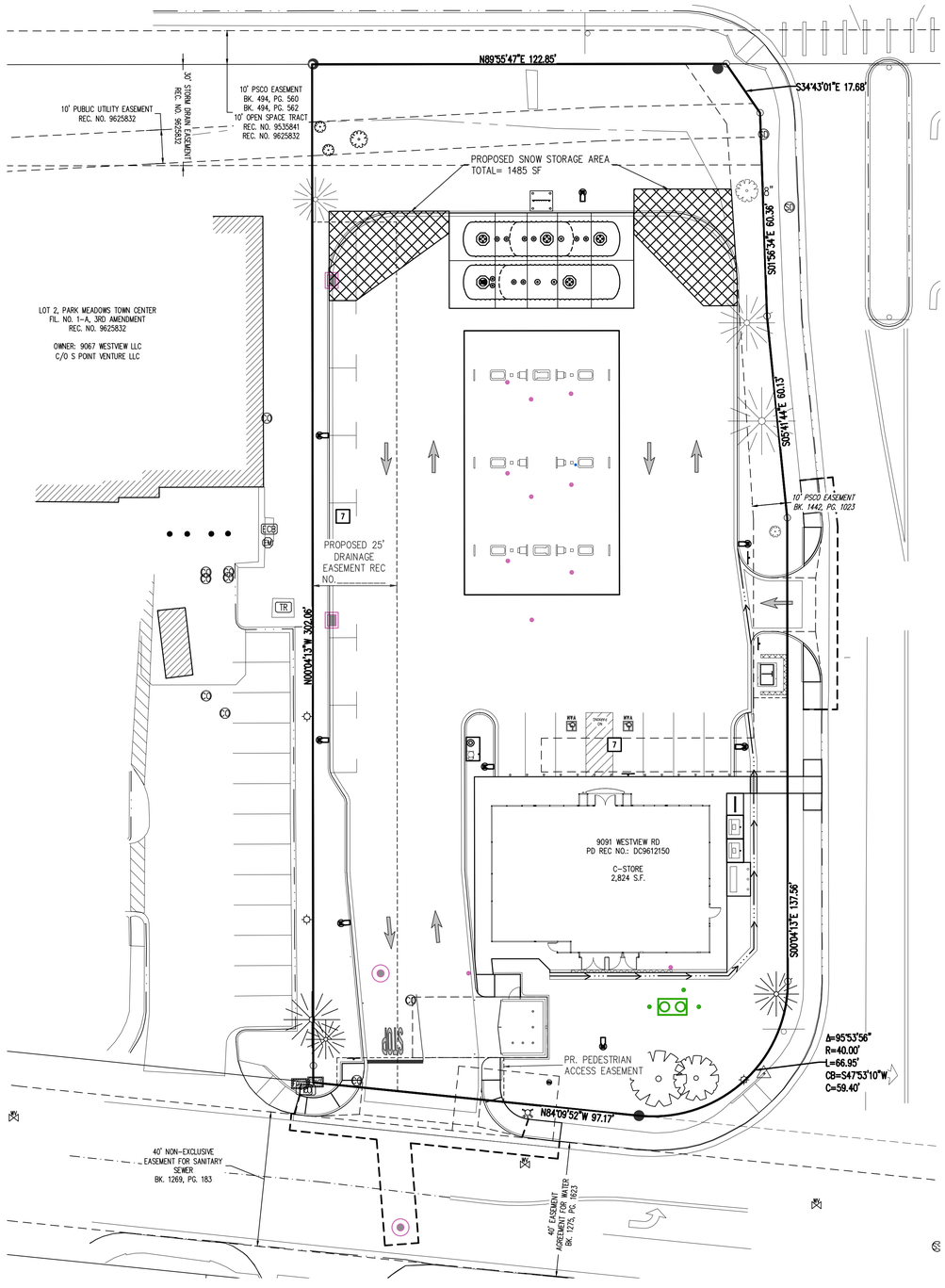
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- PROPOSED STORM SEWER MANHOLE
- PROPOSED OUTLET STRUCTURE
- EXISTING WATER VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER METER
- PROPOSED SITE LIGHT

SNOW STORAGE NOTES

1. SNOW STORAGE CALCULATED BASED ON A 4" SNOW OVER IMPERVIOUS AREA EXCLUDING ROOFS, VOLUME NEEDED: 4,317 CF
2. ASSUMED COMPACTION OF 50% AND PILE SLOPE OF 0.75:1
3. MAXIMUM HEIGHT OF 6' AT THE CENTER
4. TOTAL AREA PROVIDED: 1485 SF
5. TOTAL VOLUME PROVIDED: 6,300 CF

NOTE:
THE SNOW STORAGE IS PLACED ON THE SOUTH SIDE OF THE VEGETATION, AND IN DIRECT SUNLIGHT, ENSURING SIGNIFICANT EXPOSURE TO THE SUN. ADDITIONALLY, THE GUTTER BELOW BOTH AREAS AND ITS FLOW WILL INCREASE THE MELTING RATES.

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MURPHY OIL USA, INC
SITE IMPROVEMENT PLANS

9091 WESTVIEW ROAD
LONE TREE, COLORADO 80124

#	Date	Issue / Description	Init.
-	03/12/2026	1ST SIP SUBMITTAL	JDP
1	04/23/2026	2ND SIP SUBMITTAL	JDP
2	06/23/2026	3RD SIP SUBMITTAL	JDP
3	08/04/2026	4TH SIP SUBMITTAL	JDP
4	09/11/2026	5TH SIP SUBMITTAL	JDP
5	11/05/2026	6TH SIP SUBMITTAL	JDP

Project No: MOC148
Drawn By: SE
Checked By: JDP
Date: 11/05/2026

SNOW STORAGE

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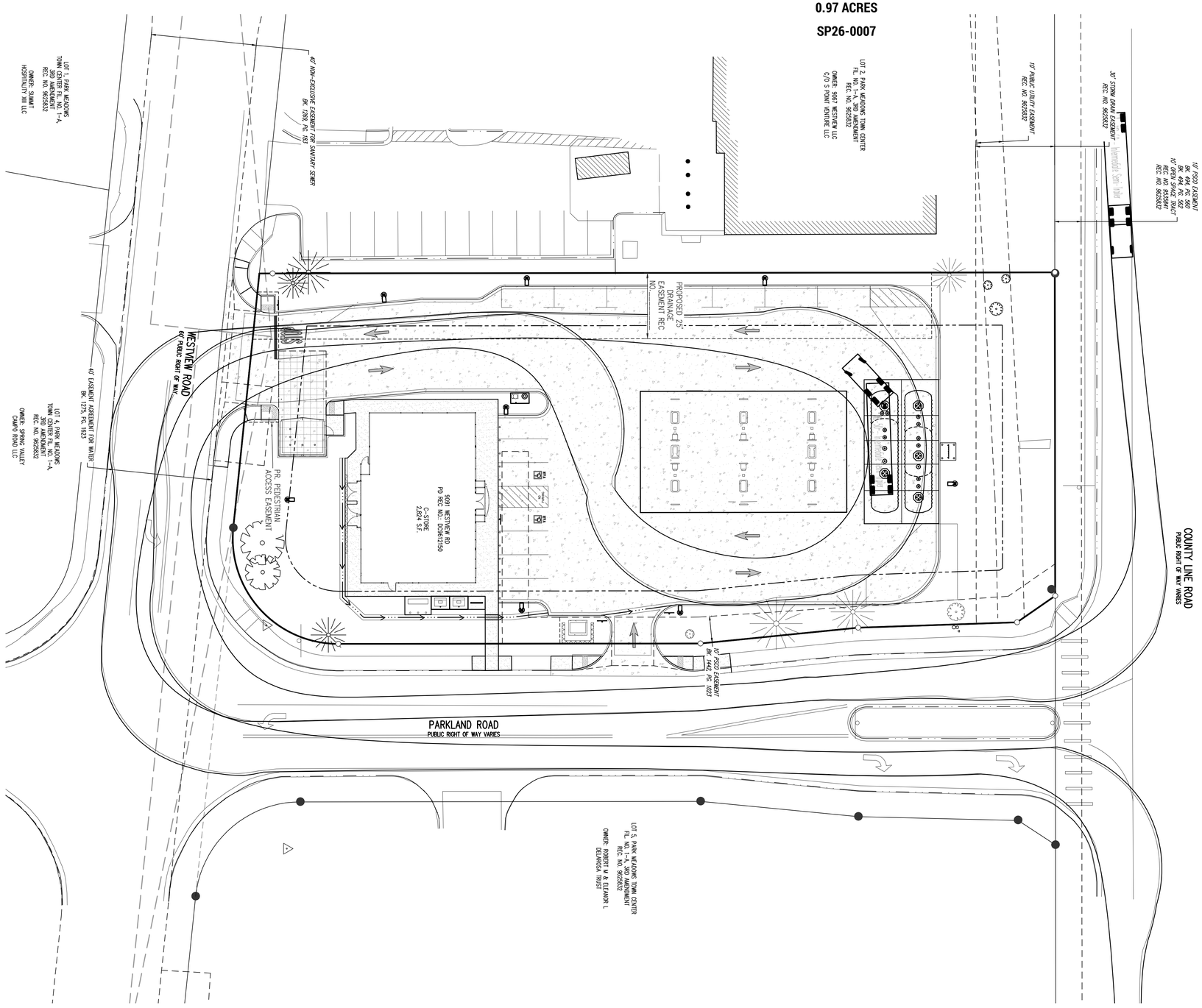
MURPHY OIL USA, INC.

MURPHY USA (NTI) #25181 SITE IMPROVEMENT PLAN

LOT 3, PARK MEADOWS, TOWN CENTER FILING NO.1 -A, 3RD AMENDMENT
LOCATED IN THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 3
TOWNSHIP 6 SOUTH, RANGE 67 WEST OF THE PRINCIPAL MERIDIAN

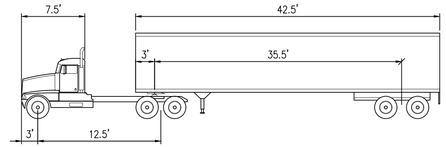
0.97 ACRES

SP26-0007

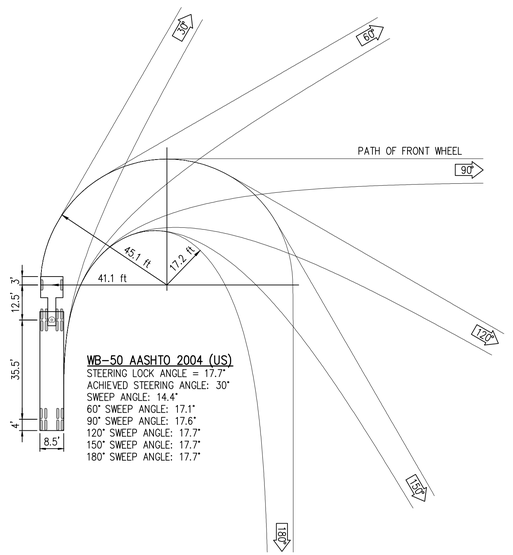


PROPOSED
- BOUNDARY LINE
- CURB AND GUTTER

0' 20' 30' 40'
1"=20'



WB-50
TRACTOR WIDTH: 8'
TRAILER WIDTH: 8.5'
TRACTOR TRACK: 8'
TRAILER TRACK: 8.5'
LOCK TO LOCK TIME: 6.0
STEERING ANGLE: 17.7
ARTICULATING ANGLE: 70



WB-50 AASHTO 2004 (US)
STEERING LOCK ANGLE = 17.7°
ACHIEVED STEERING ANGLE: 30°
SWEEP ANGLE: 14.4°
60° SWEEP ANGLE: 17.1°
90° SWEEP ANGLE: 17.6°
120° SWEEP ANGLE: 17.7°
150° SWEEP ANGLE: 17.7°
180° SWEEP ANGLE: 17.7°

WB 50 TRUCK PROFILE

THESE DRAWINGS DO NOT INCLUDE COMPONENTS FOR CONSTRUCTION SAFETY

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Project No: MOC148
Drawn By: SE
Checked By: JDP
Date: 11/05/2026

SITE CIRCULATION PLAN

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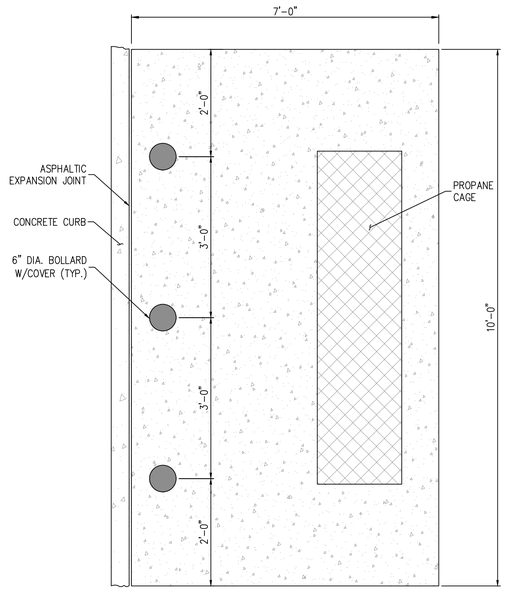
MURPHY OIL USA, INC.

MURPHY USA (NTI) #25181 SITE IMPROVEMENT PLAN

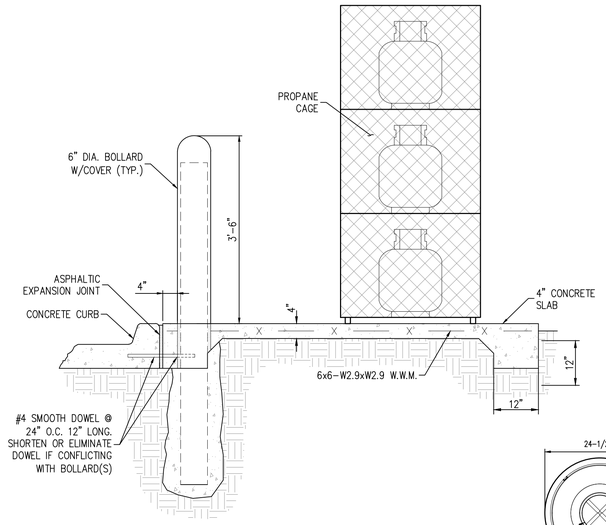
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LOCATED IN THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 3
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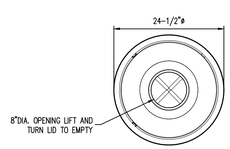
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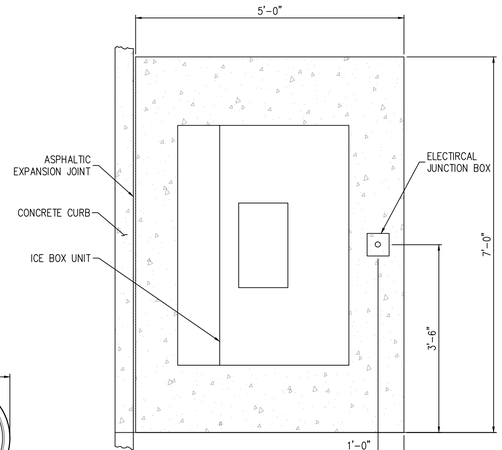


PLAN

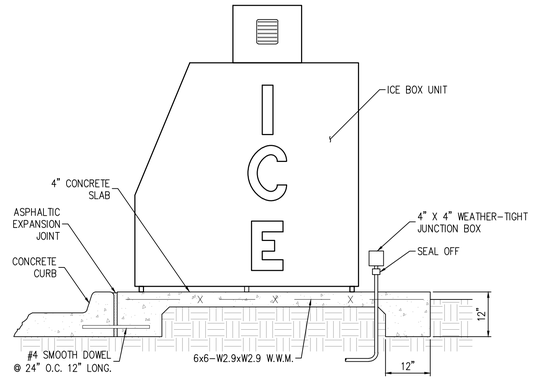


ELEVATION





PLAN



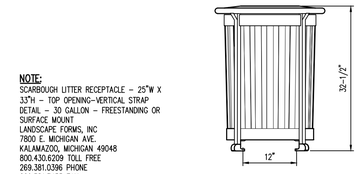
ELEVATION

NOTE:
SLOPE PAD FOR POSITIVE DRAINAGE (0.5% MIN.-1% MAX.)

PROPANE MOUNTING SLAB DETAIL 21U
N.T.S.

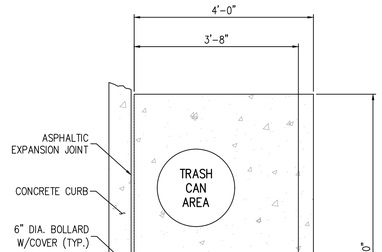
NOTES:
1. SLOPE PAD FOR POSITIVE DRAINAGE (0.5% MIN.-1% MAX.)
2. SEE SITE PLAN FOR NUMBER OF ICE UNITS.

ICE BOX MOUNTING SLAB DETAIL 21P
N.T.S.

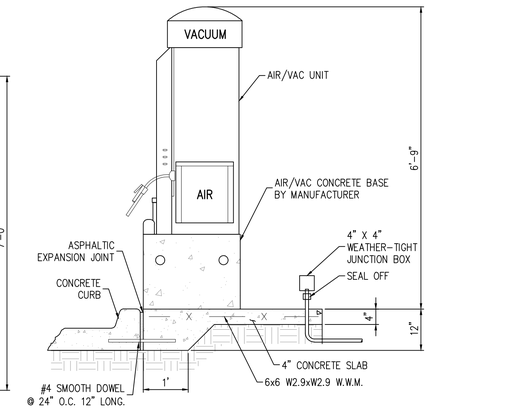


NOTE:
SCARBOUGH LITTER RECEPTACLE - 25"W X 33"H - TOP OPENING-VERTICAL STRAP DETAIL - 30 GALLON - FREESTANDING OR SURFACE MOUNT
LANDSCAPE FORMS, INC.
7800 E. MICHIGAN AVE.
KALAMAZOO, MICHIGAN 49048
800.430.6209 TOLL FREE
269.381.0396 PHONE
269.381.3455 FAX

20P TRASH RECEPTACLE
SCALE: 3/4" = 1'-0"



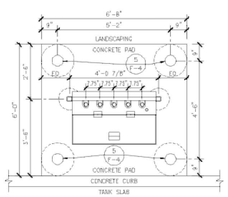
PLAN



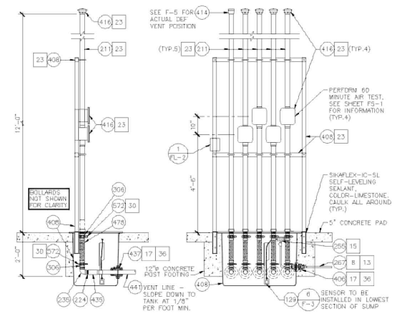
ELEVATION

NOTE:
SLOPE PAD FOR POSITIVE DRAINAGE (0.5% MIN.-1% MAX.).

AIR/VAC MOUNTING SLAB DETAIL 21O
N.T.S.



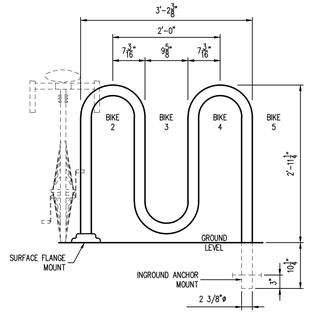
PLAN



SIDE ELEVATION

FRONT ELEVATION

21F VENT RISER DETAIL
NTS



21E BICYCLE RACK DETAIL
NOT TO SCALE

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9091 WESTVIEW ROAD
LONE TREE, COLORADO 80124

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5	11/05/2026	6TH SIP SUBMITTAL	JDP

Project No:	MOC148
Drawn By:	SE
Checked By:	JDP
Date:	11/05/2026

SITE FURNISHINGS

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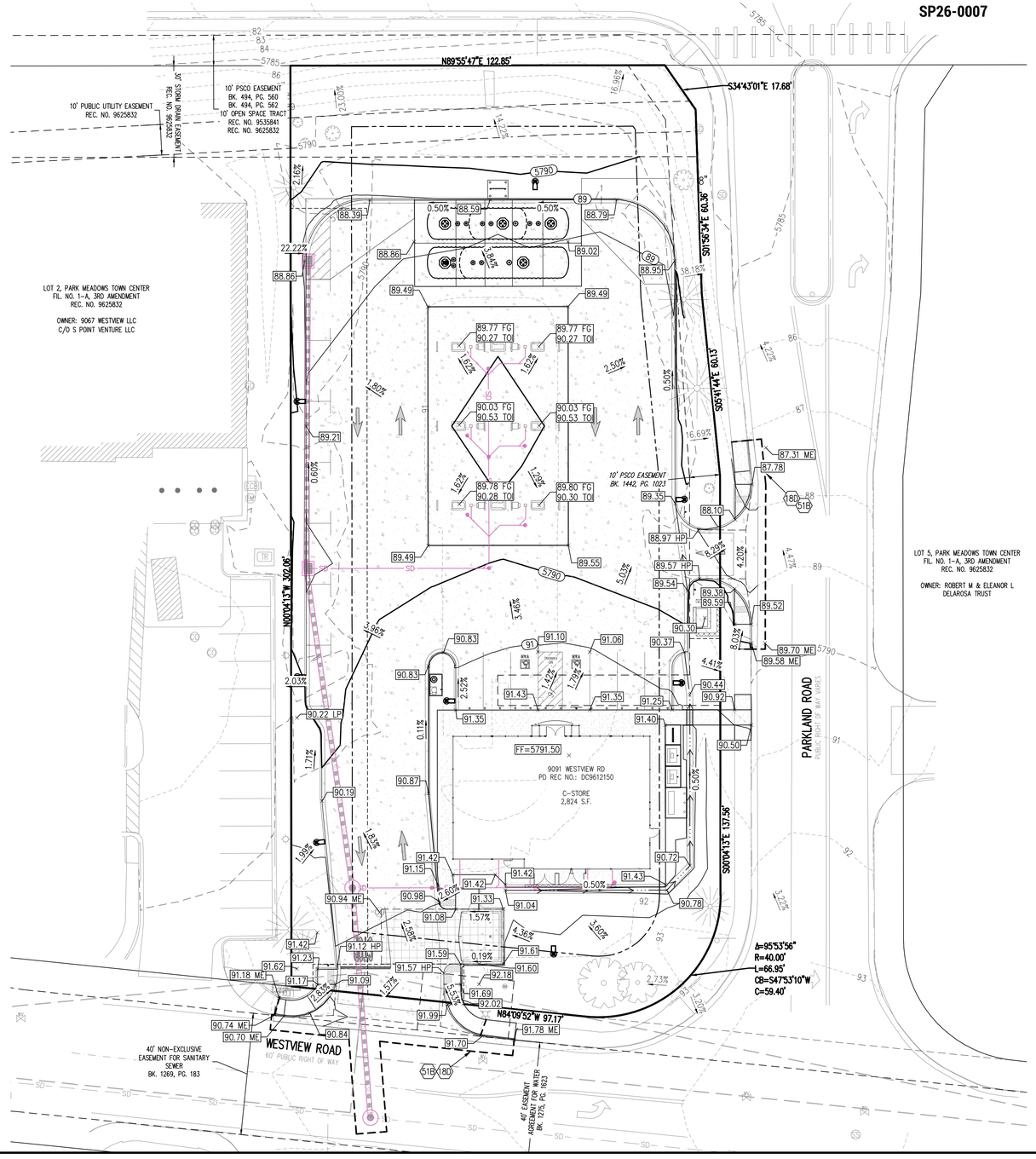
MURPHY OIL USA, INC.

MURPHY USA (NTI) #25181 SITE IMPROVEMENT PLAN

LOT 3, PARK MEADOWS, TOWN CENTER FILING NO.1 -A, 3RD AMENDMENT
LOCATED IN THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 3
TOWNSHIP 6 SOUTH, RANGE 67 WEST OF THE PRINCIPAL MERIDIAN

0.97 ACRES

SP26-0007



0' 30' 45' 60'
1" = 30'

EXISTING

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING STREET LIGHT
- EXISTING TRANSFORMER
- EXISTING ELECTRIC METER
- EXISTING ELECTRIC BOX
- EXISTING FIBER OPTIC BOX
- EXISTING GAS METER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WATER VALVE
- EXISTING STORM INLET
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING BOLLARD
- EXISTING TREE

PROPOSED

- BOUNDARY LINE
- MAJOR CONTOUR
- MINOR CONTOUR
- SPOT ELEVATIONS:
  XX.XX TBC = TOP BACK OF CURB
  XX.XX FL = FLOWLINE
  XX.XX TOI = TOP OF ISLAND
  XX.XX LP = LOW POINT
  XX.XX ME = MATCH EXISTING
  XX.XX = FINISHED GRADE
- DRAINAGE SLOPE AND DIRECTION
- STORM SEWER (LESS THAN 12"ø)

GRADING NOTES

18D MATCH EXISTING PAVEMENT ELEVATIONS
51B LIMITS OF SAWCUT & PAVEMENT REMOVAL

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LONE TREE, COLORADO 80124

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5	11/05/2026	6TH SIP SUBMITTAL	JDP

Project No: MOC148
Drawn By: SE
Checked By: JDP
Date: 11/05/2026

GRADING PLAN

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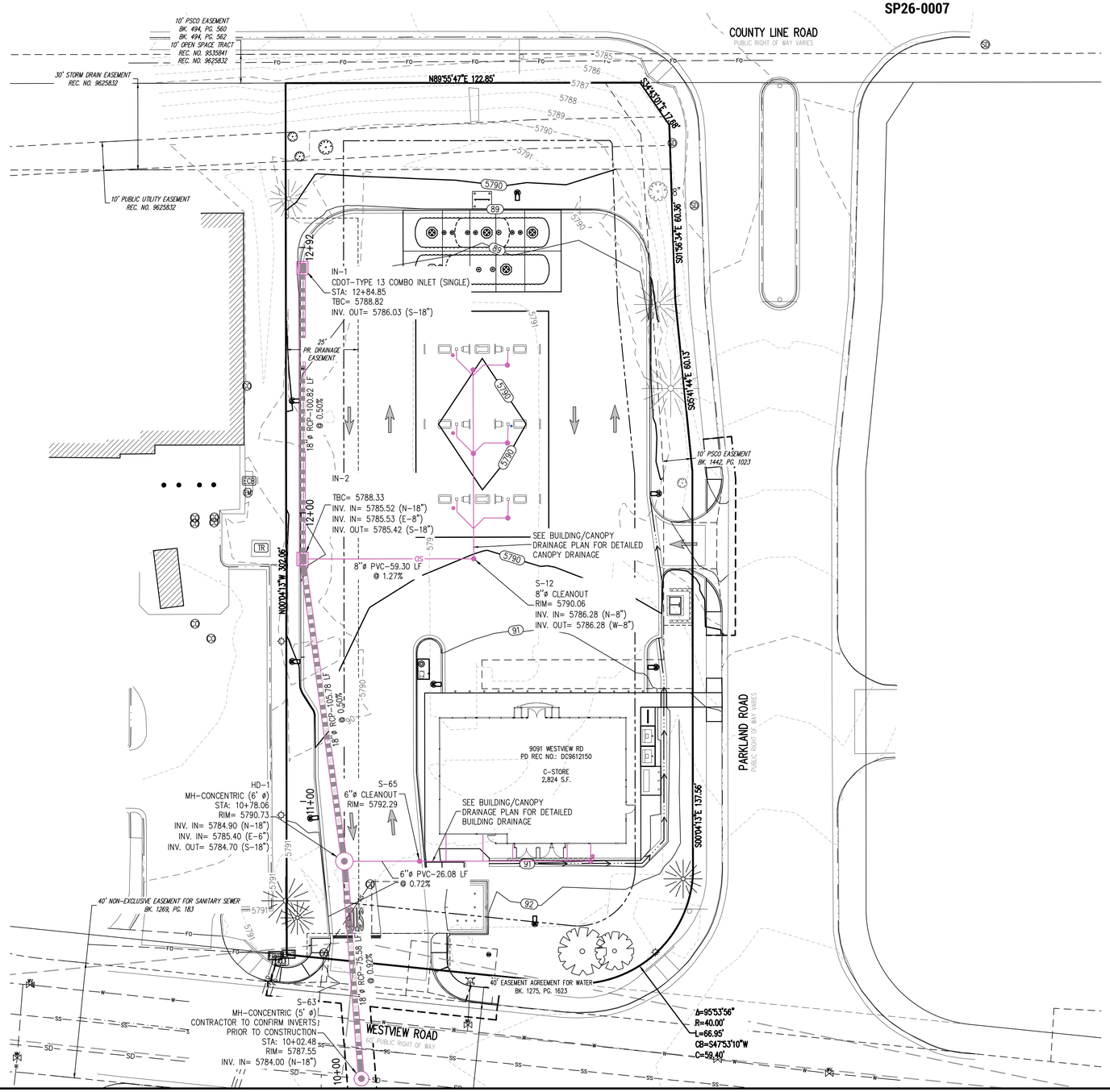
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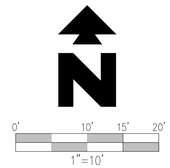
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0.97 ACRES

SP26-0007





EXISTING

- EXISTING MAJOR CONTOUR (5460)
- EXISTING MINOR CONTOUR (52)
- EXISTING STORM SEWER (LESS THAN 12"ø) (SD)
- EXISTING SANITARY SEWER (SS)
- EXISTING WATER (W)
- EXISTING UNDERGROUND ELECTRIC (UE)
- EXISTING OVERHEAD ELECTRIC (OHE)
- EXISTING FIBER OPTIC (FO)
- EXISTING GAS (G)
- EXISTING STREET LIGHT
- EXISTING TRANSFORMER
- EXISTING ELECTRIC METER
- EXISTING ELECTRIC BOX
- EXISTING FIBER OPTIC BOX
- EXISTING GAS METER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WATER VALVE
- EXISTING STORM INLET
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING BOLLARD
- EXISTING TREE

PROPOSED

- BOUNDARY LINE
- WATER SERVICE (W)
- SANITARY SERVICE (SS)
- ELECTRICAL SERVICE (E)
- PROPOSED STORM SEWER (LESS THAN 12"ø) (SD)
- PROPOSED STORM SEWER (12"ø AND LARGER) (SD)

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SITE IMPROVEMENT PLANS

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Project No:	MOC148
Drawn By:	SE
Checked By:	JDP
Date:	11/05/2026

DRAINAGE PLAN

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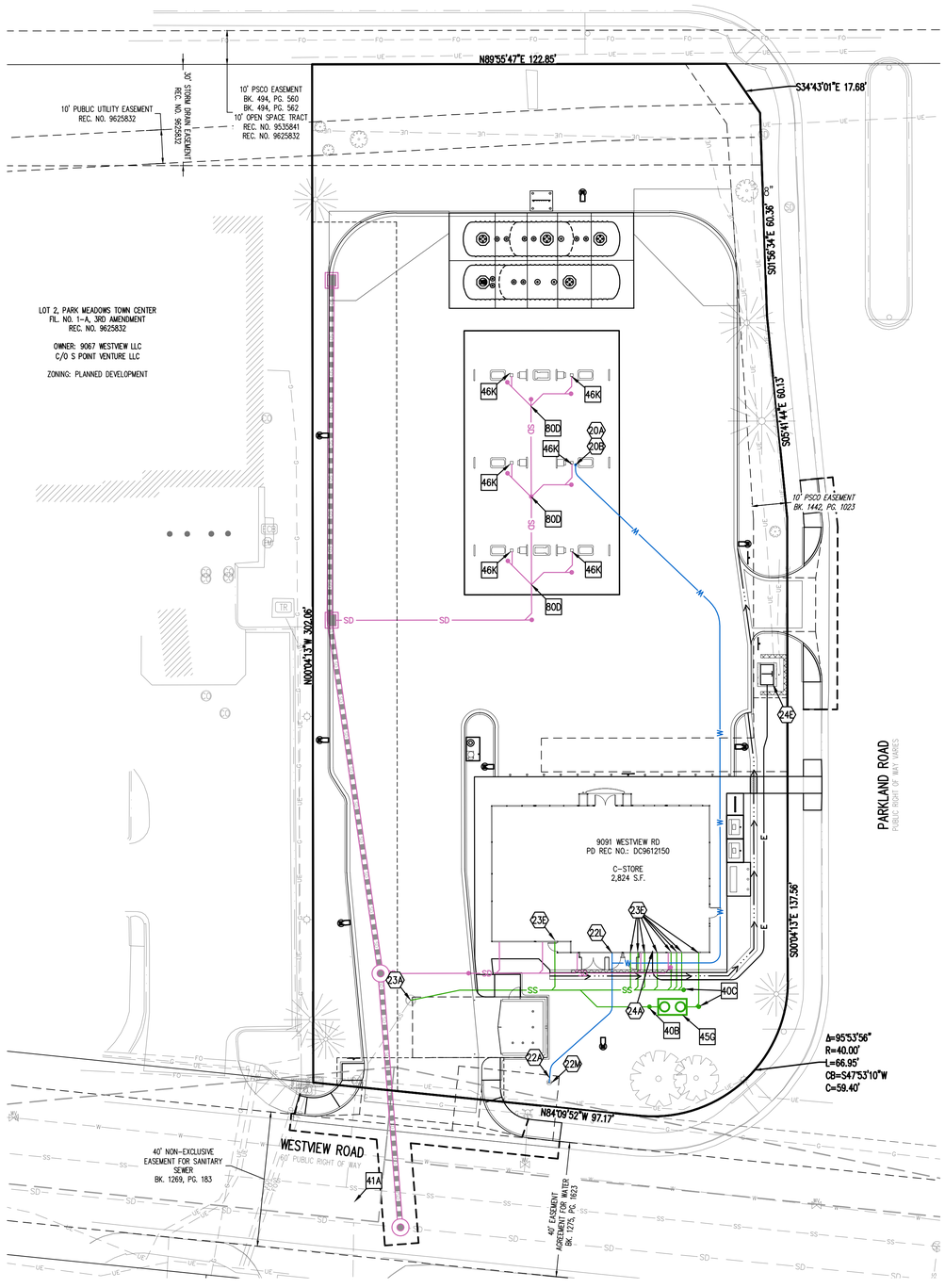
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0.97 ACRES

SP26-0007



EXISTING

- EXISTING MAJOR CONTOUR (5460)
- EXISTING MINOR CONTOUR (5459)
- EXISTING STORM SEWER (LESS THAN 12"ø) (SD)
- EXISTING SANITARY SEWER (SS)
- EXISTING WATER (W)
- EXISTING UNDERGROUND ELECTRIC (UE)
- EXISTING OVERHEAD ELECTRIC (OHE)
- EXISTING FIBER OPTIC (FO)
- EXISTING GAS (G)
- EXISTING STREET LIGHT
- EXISTING TRANSFORMER
- EXISTING ELECTRIC METER
- EXISTING ELECTRIC BOX
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- EXISTING WATER VALVE
- EXISTING STORM INLET
- EXISTING FIRE HYDRANT
- EXISTING SIGN
- EXISTING BOLLARD
- EXISTING TREE

PROPOSED

- BOUNDARY LINE
- WATER SERVICE (W)
- SANITARY SERVICE (SS)
- ELECTRICAL SERVICE (E)
- PROPOSED STORM SEWER (LESS THAN 12"ø) (SD)
- PROPOSED STORM SEWER (12"ø AND LARGER) (SD)

UTILITY NOTES

20A	FREEZE-LESS YARD HYDRANT AT PUMP ISLAND
20B	POINT OF CONNECTION - CANOPY WATER SERVICE
22A	POINT OF CONNECTION - WATER SERVICE
22L	METERED DOMESTIC WATER SERVICE ENTRY PER ARCH. PLANS
22M	EXISTING WATER METER
23A	POINT OF CONNECTION - EXISTING SANITARY SEWER
23E	SANITARY SEWER SERVICE ENTRY
24A	POINT OF CONNECTION FOR UNDERGROUND ELECTRIC SERVICE
24E	TRANSFORMER
26A	UNDERGROUND INTERNET SERVICE

UTILITY DETAILS

40C	SANITARY SEWER CLEAN OUT
40B	SANITARY SEWER TWO-WAY CLEAN OUT
45G	1,000 GALLON GREASE INTERCEPTOR
46K	ROOF DRAIN DOWNSPOUT CONNECTION
80D	DOWNSPOUT COLLECTOR

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UTILITY PLAN

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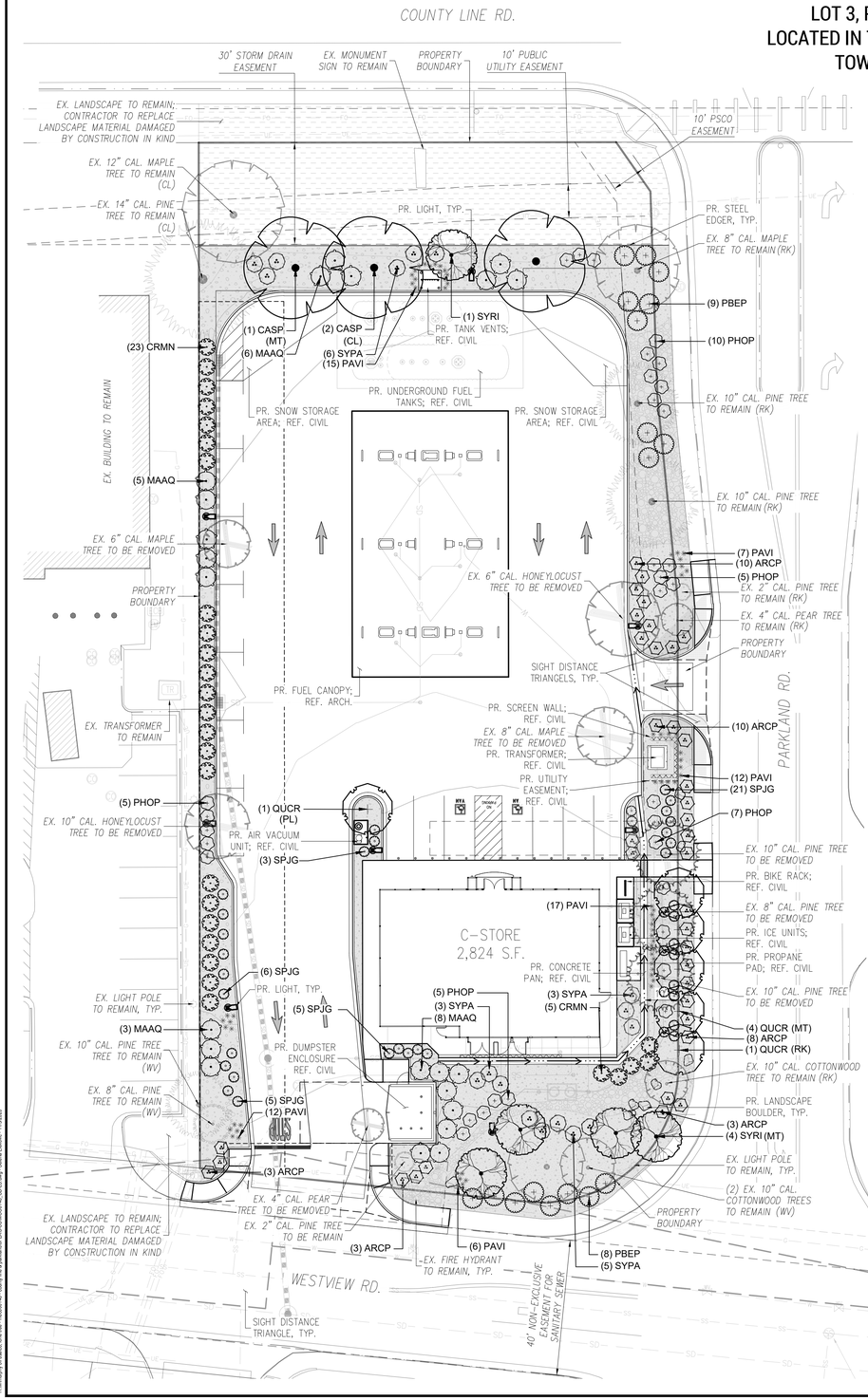
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0.97 ACRES

SP26-0007



0' 20' 30' 40'
1"=20'

NOTE:
CONTRACTOR TO REPLACE EXISTING LANDSCAPE DAMAGED BY CONSTRUCTION IN KIND.

REQUIRED, LANDSCAPING

1. ALL PLANTS INSTALLED SHALL FOLLOW THE PLANT SCHEDULE, INSTALLATION INSTRUCTIONS AND THE LANDSCAPE DRAWINGS ON THE APPROVED LANDSCAPE PLAN INCLUDED IN THIS SITE IMPROVEMENT PLAN. ANY CHANGES TO THE APPROVED LANDSCAPE PLAN, TO INCLUDE SUBSTITUTIONS, MUST BE APPROVED BY THE CITY IN ADVANCE OF INSTALLATION.
2. ALL MULCH AND/OR ROCK COBBLE SHALL BE INSTALLED AND MAINTAINED TO THE DEPTH(S) PROVIDED ON THE APPROVED LANDSCAPE PLAN INCLUDED IN THIS SITE IMPROVEMENT PLAN. ORGANIC MULCH SHALL NOT BE PLACED WITHIN SIX (6) FEET OF STORM INLETS.
3. THE USE OF IMPERMEABLE SHEET PLASTIC AS A WEED BARRIER IS PROHIBITED.

LANDSCAPE CALCULATIONS TABLE

CODE SECTION	LOCATION	FORMULA	MEASUREMENTS			REQUIRED			PROVIDED			
			LF	SF	QTY	TREES	SHRUBS	OTHER	TREES	SHRUBS	OTHER	SYMBOL
STREET TREES (RIGHT-OF-WAY)												
ROW.III.ROW-7	COUNTY LINE RD.	1 TREE / 40 LF	127 LF			4			5 (2 EX)			(CL)
ROW.III.ROW-7	PARKLAND RD.	1 TREE / 40 LF	272 LF*			7			7 (6 EX.)			(RK)
ROW.III.ROW-7	WESTVIEW RD.	1 TREE / 40 LF	94 LF*			3			4 EX.			(WV)
MOTOR VEHICLE LOT												
SIP.IV.SIP-J	SINGLE ISLAND	1 TREE / ISLAND			1 ISLAND	1			1			(PL)
SCREENING												
SIP.III.SIP-6	TRASH ENCLOSURE	TRASH ENCLOSURE 100% SCREENED	51					51 LF			51 LF	51 LF
OTHER CATEGORY (BIODIVERSITY, BUILDING PERIMETER/FOUNDATION, EVERGREEN MINIMUM, LIVE COVERAGE ETC.)												
SIP.I.SIP-A	LANDSCAPE AREA	MINIMUM 15% OF SITE TO BE LANDSCAPE AREA		42,332				6,350 SF			10,697 SF	
GP.I.GP-B	BIODIVERSITY	MAXIMUM 25% OF ONE GENUS			MAX. 44			MAX. 44			23 (*Cercocarpus*)	
	TREE MITIGATION	1:1 TREE REPLACEMENT			9 TREES	9			9			(MT)
REFERENCE CITY OF LONE TREE, CO DESIGN GUIDELINES & STANDARDS FOR LANDSCAPING												
REQUIREMENTS NOTES												
* DOES NOT INCLUDE WIDTH OF DRIVE AISLE												

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT.	CAL / SIZE	HT. X SPD.	WATER USE
DECIDUOUS TREES								
	CASP	3	NORTHERN CATALPA	CATALPA SPECIOSA	B&B	2" CAL	50'X30'	LOW
	QUCR	6	CRIMSON SPIRE OAK	QUERCUS X 'CRIMSCHMIDT' TM	B&B	2" CAL	45'X15'	MODERATE
ORNAMENTAL TREES								
	SYRI	5	IVORY SILK JAPANESE TREE LILAC	SYRINGA RETICULATA 'IVORY SILK'	B&B	1.5" CAL	20'X15'	LOW
EXISTING TREES								
	EXTR	5	EXISTING DECIDUOUS TREE TO BE REMOVED	EXISTING DECIDUOUS TREE TO BE REMOVED	EXISTING			
	EXDT	6	EXISTING DECIDUOUS TREE TO REMAIN	EXISTING DECIDUOUS TREE TO REMAIN	EXISTING			
	EXER	3	EXISTING EVERGREEN TREE TO BE REMOVED	EXISTING EVERGREEN TREE TO BE REMOVED	EXISTING			
	EXET	7	EXISTING EVERGREEN TREE TO REMAIN	EXISTING EVERGREEN TREE TO REMAIN	EXISTING			

SYMBOL	CODE	QTY	COMMON NAME	BOTANICAL NAME	CONT.	HT. X SPD.	WATER USE
DECIDUOUS SHRUBS							
	PHOP	32	LITTLE DEVIL DWARF NINEBARK	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY' TM	#5 CONT.	4'X4'	LOW
	PBEP	17	PAWNEE BUTTES SAND CHERRY	PRUNUS BESSEYI 'P011S' TM	#5 CONT.	1.5'X6'	VERY LOW
	SPJG	40	GOLDFLAME JAPANESE SPIREA	SPIRAEA JAPONICA 'GOLDFLAME'	#5 CONT.	3'X3'	LOW
	SYPA	17	MISS KIM KOREAN LILAC	SYRINGA PATULA 'MISS KIM'	#5 CONT.	5'X5'	LOW
EVERGREEN SHRUBS							
	ARCP	37	PANCHITO MANZANITA	ARCTOSTAPHYLOS X COLORADENSIS 'PANCHITO'	#5 CONT.	2'X4'	LOW
	CRMN	28	MOUNTAIN MAHOGANY	CERCOCARPUS MONTANUS	#5 CONT.	8'X6'	VERY LOW
	MAAQ	22	OREGON GRAPE HOLLY	MAHONIA AQUIFOLIUM	#5 CONT.	6'X6'	VERY LOW
ORNAMENTAL GRASSES							
	PAVI	69	HEAVY METAL SWITCH GRASS	PANICUM VIRGATUM 'HEAVY METAL'	#1 CONT.	4'X1.5'	LOW

LANDSCAPE SURFACES SCHEDULE

SYMBOL	QTY	TYPE
MULCH		
	3,198 SF	1"-2" BLUE-GRAY RIVER ROCK, MATCH EX. ORGANIC WOOD MULCH RING AROUND ALL PLANT MATERIAL WITHIN ROCK BEDS
	1,459 SF	2"-4" ARKANSAS TAN ROCK MULCH ORGANIC WOOD MULCH RING AROUND ALL PLANT MATERIAL WITHIN ROCK BEDS
	5,774 SF	3/4" DESERT SAND RIVER ROCK MULCH ORGANIC WOOD MULCH RING AROUND ALL PLANT MATERIAL WITHIN ROCK BEDS
SOD/SEED		
		EXISTING SOD TO REMAIN
OTHER		
	10,697 SF	LANDSCAPE AREA (15% MINIMUM)

LANDSCAPE MATERIALS SCHEDULE

SYMBOL	DESCRIPTION
	STEEL EDGER
	2'-3' SILOAM STONE BOULDER

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MURPHY OIL USA, INC
SITE IMPROVEMENT PLANS

9091 WESTVIEW ROAD
LONE TREE, COLORADO 80124

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-	03/12/2026	1ST SIP SUBMITTAL	JDP
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Project No: MOC148
Drawn By: TJR
Checked By: SRM
Date: 11/05/2026

LANDSCAPE PLAN

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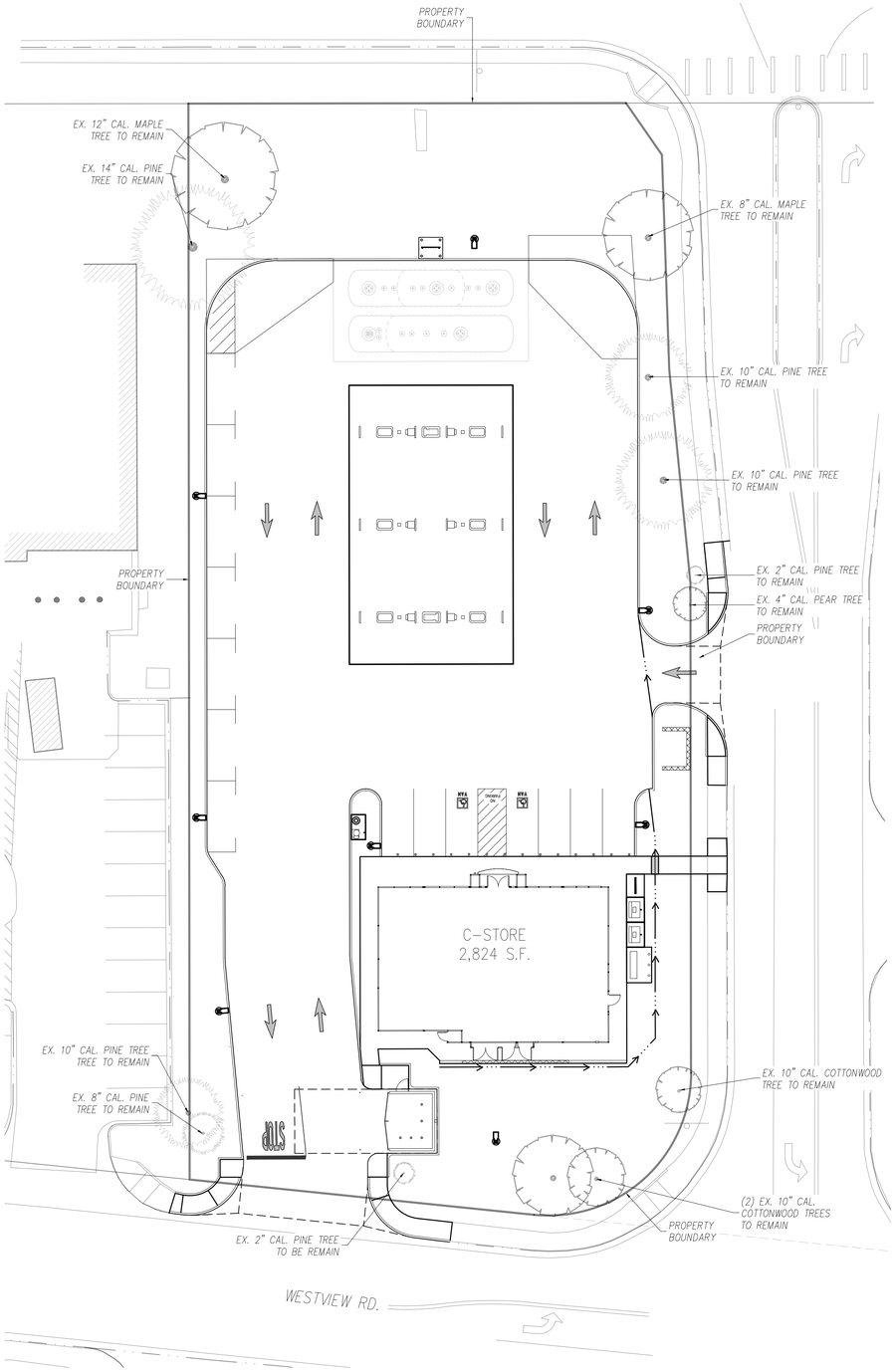
MURPHY OIL USA, INC.

MURPHY USA (NTI) #25181 SITE IMPROVEMENT PLAN

LOT 3, PARK MEADOWS, TOWN CENTER FILING NO.1 -A, 3RD AMENDMENT
LOCATED IN THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 3
TOWNSHIP 6 SOUTH, RANGE 67 WEST OF THE PRINCIPAL MERIDIAN

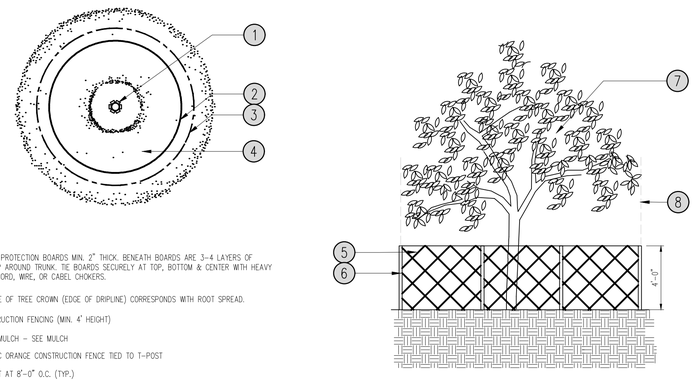
0.97 ACRES

SP26-0007



TREE PROTECTION NOTES:

1. USE CITY OF LONE TREE TREE PROTECTION NOTES (IF AVAILABLE). TREE PROTECTION NOTES BELOW SHALL BE USED FOR FURTHER INTEGRATION.
2. "PROTECTED ZONE" FOR EXISTING TREES: BEFORE BEGINNING ANY DEMOTION OR CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND ALL EXISTING TREES WITHIN THE CONSTRUCTION ZONE THAT ARE TO BE SAVED. THE FENCE SHALL BE INSTALLED NO CLOSER TO THE TREE THAN THE EDGE OF THE TREE'S PROTECTED ZONE, GENERALLY DEFINED AS THE AREA BEGINNING FIVE FEET OUTSIDE OF THE TREE'S DRIPLINE AND EXTENDING TOWARDS THE TREE (OR AS FAR AWAY FROM THE TRUNK AS PRACTICABLE). THE FENCING SHALL BE OF A MATERIAL AND HEIGHT ACCEPTABLE TO THE LANDSCAPE ARCHITECT. ALL CONTRACTORS AND THEIR CREWS SHALL NOT BE ALLOWED INSIDE THIS "PROTECTED ZONE" NOR SHALL THEY BE ALLOWED TO STORE OR DUMP FOREIGN MATERIALS WITHIN THIS AREA. NO WORK OF ANY KIND, INCLUDING TRENCHING, SHALL BE ALLOWED WITHIN THE PROTECTED ZONE EXCEPT AS DESCRIBED BELOW. THE FENCING SHALL REMAIN AROUND EACH TREE TO BE SAVED UNTIL THE COMPLETION OF CONSTRUCTION OPERATIONS.
3. TEMPORARY MULCH: TO ALLEVIATE SOIL COMPACTION IN ANTICIPATED AREAS OF HIGH CONSTRUCTION TRAFFIC, AND ONLY WHERE FENCING CANNOT BE SET FIVE FEET OUTSIDE OF THE DRIPLINE, THE CONTRACTOR SHALL INSTALL A LAYER OF MULCH, 9"-12" THICK, OVER ALL EXPOSED EARTH FROM THE TREE TRUNK TO 5' OUTSIDE OF THE DRIPLINE. THIS LAYER SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. WHEN PLANTING OPERATIONS ARE COMPLETED, THE MULCH SHALL BE REDISTRIBUTED THROUGHOUT ALL PLANTING AREAS IN A 3" THICK "PERMANENT" MULCH LAYER.
4. NECESSARY WORK: WHEN IT BECOMES NECESSARY TO ENTER THE "PROTECTED ZONE", SUCH AS FOR FINE GRADING, IRRIGATION INSTALLATION, AND PLANTING OPERATIONS, THE CONTRACTOR SHALL STRICTLY ADHERE TO THE FOLLOWING RULES:
   - EVERY EFFORT SHALL BE MADE TO PRESERVE THE EXISTING GRADE AROUND PROTECTED TREES IN AS WIDE AN AREA AS POSSIBLE.
   - TRENCHING WITHIN THE PROTECTED ZONE OF EXISTING TREES SHALL BE PERFORMED BY HAND, AND WITH EXTREME CARE NOT TO SEVER ROOTS 1-1/2" IN DIAMETER AND LARGER. WHERE ROOTS 1-1/2" IN DIAMETER AND LARGER ARE ENCOUNTERED, THE CONTRACTOR SHALL TUNNEL UNDER SAID ROOTS. EXPOSED ROOTS THAT HAVE BEEN TUNNELED UNDER SHALL BE WRAPPED IN WET BURLAP AND KEPT MOIST WHILE THE TRENCH IS OPEN.
   - WHERE ROOTS 1-1/2" IN DIAMETER OR LARGER MUST BE CUT DUE TO EXTENSIVE GRADE CHANGES, THOSE ROOTS MUST BE EXPOSED BY HAND DIGGING AND CUT CLEANLY. RAGGED CUTS GENERALLY DO NOT HEAL PROPERLY, AND MAY LEAVE THE TREE OPEN TO PESTS AND PATHOGENS.
   - WHERE TRENCHING NEAR TREES HAS ALREADY OCCURRED FROM PREVIOUS CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO CONFINE HIS TRENCHING OPERATIONS TO THE PREVIOUSLY-CREATED TRENCHES, WHILE ADHERING TO THE CONDITIONS SET FORTH IN 3B.
5. POTENTIAL CONFLICTS: THE CONTRACTOR SHALL NOTIFY THE OWNER AND ARBORIST SHOULD ANY POTENTIAL CONFLICTS ARISE BETWEEN THESE SPECIFICATIONS AND/OR LARGE ROOTS ENCOUNTERED IN THE FIELD, AND CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL NOT TAKE ANY ACTION IN SUCH CONFLICTS WITHOUT THE ARBORIST'S WRITTEN APPROVAL. THE ARBORIST SHALL HAVE FINAL AUTHORITY OVER ALL METHODS NECESSARY TO HELP ENSURE THE PROTECTION AND SURVIVAL OF EXISTING TREES.
6. PRUNING: PRUNE ONLY THE TREES THAT ARE INDICATED ON THE PLANS AS REQUIRING PRUNING. PRUNE TREES ACCORDING TO INTERNATIONAL SOCIETY OF ARBORICULTURE / ANSI A300 STANDARDS:
   - REMOVE ALL DEAD WOOD.
   - PRUNE LIVE WOOD FOR HEALTH OR STRUCTURAL REASONS ONLY, INCLUDING THE NEED TO ELIMINATE DISEASED OR DAMAGED GROWTH, ELIMINATE STRUCTURALLY UNSOUND GROWTH, REDUCE THE POTENTIAL FOR WIND TOPPLING OR WIND DAMAGE, OR TO MAINTAIN GROWTH WITHIN LIMITED SPACE. DO NOT REMOVE MORE THAN 25% OF ANY TREE'S LIVE FOLIAGE IN ANY ONE GROWING SEASON. PRUNE ONLY TO INTERNATIONAL SOCIETY OF ARBORICULTURE/ANSI A300 STANDARDS, AND ONLY UNDER THE DIRECT SUPERVISION OF A CERTIFIED ARBORIST.
   - FINAL CUTS SHALL BE MADE JUST OUTSIDE THE SHOULDER RING AREA. EXTREMELY FLUSHED CUTS WHICH PRODUCE LARGE WOUNDS SHALL NOT BE MADE.
   - ALL TRIMMING CUTS SHALL BE PERFORMED IN SUCH A MANNER AS TO PROMOTE THE NATURAL GROWTH AND SHAPE OF EACH TREE SPECIES.
   - IMPROPER PRUNING METHODS INCLUDING, BUT NOT LIMITED TO, "TOPPING", "TIPPING", "HEADING BACK", "DEHORNING", AND "LIONTAILING" WILL NOT BE ALLOWED. THE CONTRACTOR SHALL PAY FOR ALL WORK NECESSARY TO CORRECT SUCH PRUNING WHEN PERFORMED BY HIS CREWS OR SUBCONTRACTORS.
   - SHOULD THE CONTRACTOR REQUIRE MORE INFORMATION, THE CONTRACTOR SHALL CONTACT THE ISA AT (217) 355-9411 FOR A COPY OF THE ANSI A300 PRUNING STANDARDS. CONTRACTOR SHALL ADHERE TO THE METHODS AND PRACTICES SET FORTH IN THIS DOCUMENT.
7. LANDSCAPE AND IRRIGATION (NATIVE TREES ONLY): ANY FUTURE LANDSCAPE AND IRRIGATION SHOULD ADHERE TO THE FOLLOWING GUIDELINES:
   - NO IRRIGATION OR PLANTING SHOULD OCCUR CLOSER THAN 8'-10' FROM THE TRUNK.
   - WHERE IRRIGATION DOES OCCUR WITHIN THE PROTECTED ZONE, DRIP IRRIGATION SHOULD BE USED WHEREVER POSSIBLE. ADDITIONALLY, ONLY PLANTS WITH LOW WATER NEEDS SHOULD BE PLANTED WITHIN THE PROTECTED ZONE, SPACED FAR APART WHERE CLOSE TO THE TREE. PLANTS MAY BE SPACED CLOSER TOGETHER NEAR THE EDGE OF THE PROTECTED ZONE.



1. TRUNK PROTECTION BOARDS MIN. 2" THICK. BENEATH BOARDS ARE 3-4 LAYERS OF BURLAP AROUND TRUNK. TIE BOARDS SECURELY AT TOP, BOTTOM & CENTER WITH HEAVY DUTY CORD, WIRE, OR CABEL CHOKERS.
2. OUTLINE OF TREE CROWN (EDGE OF DRIPLINE) CORRESPONDS WITH ROOT SPREAD.
3. CONSTRUCTION FENCING (MIN. 4' HEIGHT)
4. WOOD MULCH - SEE MULCH
5. PLASTIC ORANGE CONSTRUCTION FENCE TIED TO T-POST
6. T-POST AT 8'-0" O.C. (TYP.)
7. EXISTING TREE
8. DRIPLINE

1 TREE PROTECTION DETAIL
N.T.S.

0' 20' 30' 40'
1"=20'

NOTE:
CONTRACTOR TO REPLACE EXISTING LANDSCAPE DAMAGED BY CONSTRUCTION IN KIND.

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Project No: MOC148
Drawn By: TJR
Checked By: SRM
Date: 11/05/2026

TREE PRESERVATION PLAN

12
Sheet 12 of 15

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MURPHY OIL USA, INC.

MURPHY USA (NTI) #25181 SITE IMPROVEMENT PLAN

LOT 3, PARK MEADOWS, TOWN CENTER FILING NO.1 -A, 3RD AMENDMENT
LOCATED IN THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 3
TOWNSHIP 6 SOUTH, RANGE 67 WEST OF THE PRINCIPAL MERIDIAN

0.97 ACRES

SP26-0007

LANDSCAPE NOTES

GENERAL

1. THESE PLANS ARE FOR ENTITLEMENT PURPOSES ONLY AND ARE NOT TO BE UTILIZED FOR CONSTRUCTION.
2. ALL WORK SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES, STANDARDS, AND SPECIFICATIONS.
3. ANY FIELD CHANGES OR DEVIATIONS TO THESE PLANS WITHOUT PRIOR APPROVAL OF AN AMENDED PLAN MAY RESULT IN A DELAY OF FINAL APPROVAL AND ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
4. LANDSCAPE DESIGN IS DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN TAKEOFFS AND QUANTITY CALCULATIONS. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE LANDSCAPE LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN SHALL TAKE PRECEDENCE AND NOTIFY THE LANDSCAPE ARCHITECT OF THESE DISCREPANCIES. MINOR ADJUSTMENTS TO THE LANDSCAPE MATERIAL AND LOCATIONS MAY BE PROPOSED FOR CITY CONSIDERATION AT THE CONSTRUCTION DOCUMENT STAGE TO RESPOND TO MARKET AND FIELD CONDITIONS. HOWEVER, THERE SHALL BE NO REDUCTION IN THE NUMBER AND SIZE OF MATERIALS.
5. CONTRACTOR SHALL MAKE HIMSELF AWARE OF THE LOCATIONS OF EXISTING AND PROPOSED UTILITIES, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE UTILITIES AND/OR ANY INJURY TO ANY PERSON. THIS DRAWING IS PART OF A COMPLETE SET OF CONTRACT DOCUMENTS. UNDER NO CIRCUMSTANCES SHOULD THIS PLAN BE USED FOR CONSTRUCTION PURPOSES WITHOUT EXAMINING ACTUAL LOCATIONS OF UTILITIES ON SITE AND REVIEW ALL RELATED PLANS AND DOCUMENTS.
6. ALL UTILITY EASEMENTS SHALL REMAIN UNOBSTRUCTED AND FULLY ACCESSIBLE ALONG THEIR ENTIRE LENGTH FOR MAINTENANCE EQUIPMENT.
7. LANDSCAPE CONTRACTOR SHALL EXAMINE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED AND NOTIFY THE GENERAL CONTRACTOR IN WRITING OF UNSATISFACTORY CONDITIONS. IF SITE CONDITIONS OR PLANT AVAILABILITY REQUIRE CHANGES TO THE PLAN, THEN AN APPROVAL WILL BE OBTAINED FROM THE CITY. DO NOT PROCEED UNTIL CONDITIONS HAVE BEEN CORRECTED.
8. ALL CONSTRUCTION DEBRIS AND MATERIAL SHALL BE REMOVED AND CLEANED OUT PRIOR TO INSTALLATION OF TOPSOIL, TREES, SHRUBS, AND TURF.
9. FOR ALL INFORMATION ON SURFACE MATERIAL OF WALKS, DRIVES, AND PARKING LOTS, SEE THE SITE PLAN. FOR GRADING INFORMATION REFER TO THE CIVIL ENGINEER'S DRAWINGS. SEE PHOTOMETRIC PLAN FOR FREE STANDARD LIGHTING AND LOCATION INFORMATION.
10. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT ONE WEEK PRIOR TO BEGINNING CONSTRUCTION.
11. WINTER WATERING SHALL BE AT THE EXPENSE OF THE CONTRACTOR UNTIL SUCH TIME AS FINAL ACCEPTANCE IS RECEIVED.
12. ALL LANDSCAPE CONSTRUCTION PRACTICES, WORKMANSHIP, AND ETHICS SHALL, BE IN ACCORDANCE WITH INDUSTRY STANDARDS SET FORTH IN THE CONTRACTORS HANDBOOK PUBLISHED BY THE COLORADO LANDSCAPE CONTRACTORS ASSOCIATION.
13. LANDSCAPE AND IRRIGATION WORK SHALL BE COMPLETED PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY.

FINISH GRADING AND SOIL PREPARATION

1. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN FINISH GRADES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GEOTECHNICAL REPORT, THE GRADING PLANS, THESE NOTES, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND OWNER.
2. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, THE CONTRACTOR SHALL HAVE SOIL SAMPLES TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY FOR THE FOLLOWING: GENERAL SOIL FERTILITY, PH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ABSORPTION RATIO (SAR) AND BORON CONTENT. EACH SAMPLE SUBMITTED SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL. CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): GENERAL SOIL PREPARATION AND BACKFILL MIXES, PRE-PLANT FERTILIZER APPLICATIONS, AND ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
3. WEED CONTROL: CONTRACTOR TO APPLY PRE-EMERGENT HERBICIDE TO SHRUB BEDS PER MANUFACTURER'S SPECIFICATIONS.
4. THE CONTRACTOR SHALL RECOMMEND INSTALLATION OF SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT FOR THE THE OWNER/OWNER'S REPRESENTATIVE CONSIDERATION.
5. AT A MINIMUM, 4 CUBIC YARDS PER 1,000 SF OF PREMIUM 3 ORGANIC COMPOST, OR APPROVED EQUAL, SHALL BE INCORPORATED INTO TOPSOIL FOR ALL BLUEGRASS TURF AREAS. INCORPORATE 2 CUBIC YARDS PER 1,000 SF OF PREMIUM 3 ORGANIC COMPOST, OR APPROVED EQUAL, FOR ALL NATIVE SEED AREAS. AMENDMENT SHALL BE ROTOTILLED INTO THE TOP 6-8 INCHES OF TOPSOIL.
6. ALL PARKING ISLAND SOIL TO BE TILLED OR AMENDED TO A MINIMUM DEPTH OF 30".

PLANTING

1. ALL DECIDUOUS TREES SHALL HAVE FULL, WELL-SHAPED HEADS/ALL EVERGREENS SHALL BE UNSHEARED AND FULL TO THE GROUND; UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
2. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT SHALL BE THE SOLE JUDGE AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
3. ALL TREES SHALL BE GUYED AND WOOD STAKED AS PER DETAILS. NO 'T-STAKES' SHALL BE USED FOR TREES. TREES TO BE STAKED FOR A MINIMUM OF 18 MONTHS TO ALLOW FOR ESTABLISHMENT.
4. ALL PLANT MATERIALS SHALL BE TRUE TO TYPE, SIZE, SPECIES, QUALITY, AND FREE OF INJURY, BROKEN ROOT BALLS, PESTS, AND DISEASES, AS WELL AS CONFORM TO THE MINIMUM REQUIREMENTS DESCRIBED IN THE "AMERICAN STANDARD FOR NURSERY STOCK". FOLLOW GREENCO TREE PLANTING RECOMMENDATIONS FOR MINIMUM QUALITY REQUIREMENTS FOR TREES.
5. ALL TREE AND SHRUB BED LOCATIONS ARE TO BE STAKED OUT ON SITE FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
6. ALL TREES PLANTED ADJACENT TO PUBLIC AND/OR PEDESTRIAN WALKWAYS SHALL BE PRUNED CLEAR OF ALL BRANCHES BETWEEN GROUND AND A HEIGHT OF EIGHT (8) FEET FOR THAT PORTION OF THE PLAN LOCATED OVER THE SIDEWALK AND/OR ROAD.
7. ALL PLANT MATERIAL SHALL NOT BE PLANTED PRIOR TO INSTALLATION OF TOPSOIL.
8. PLANT BEDS SHALL BE CONTAINED WITH STEEL EDGER PER PLAN. STEEL EDGER IS NOT REQUIRED ALONG CURBS, WALKS OR BUILDING FOUNDATIONS. ALL EDGING SHALL OVERLAP AT JOINTS A MINIMUM OF 6-INCHES, AND SHALL BE FASTENED WITH A MINIMUM OF 4 PINS PER EACH 10 FOOT SECTION. THE TOP OF ALL EDGING MATERIAL SHALL BE A MINIMUM 14 GAUGE ROLLED TOP AND 1/2 INCH ABOVE THE FINISHED GRADE OF ADJACENT LAWN OR MULCH AREAS. COLOR: DARK GREEN.
9. THE DEVELOPER, HIS SUCCESSOR, OR ASSIGNEE SHALL BE RESPONSIBLE FOR ESTABLISHING AND CONTINUING A REGULAR PROGRAM OF MAINTENANCE FOR ALL LANDSCAPED AREAS. SEE LANDSCAPE GUARANTEE AND MAINTENANCE NOTE.
10. A 3-FOOT CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF ALL FIRE HYDRANTS.
11. ALL FIRE DEPARTMENT CONNECTIONS (FDC) SHALL NOT BE VISUALLY OR PHYSICALLY OBSTRUCTED BY LANDSCAPING.
12. LANDSCAPE CONTRACTOR TO SUBMIT SAMPLES OF MISCELLANEOUS LANDSCAPING MATERIALS TO THE LANDSCAPE ARCHITECTS AND OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION, IE.; MULCH, EDGER, LANDSCAPE FABRIC, ETC.

MULCHING

1. AFTER ALL PLANTING IS COMPLETE, THE CONTRACTOR SHALL INSTALL A MINIMUM 4" THICK LAYER OF MULCH AS SPECIFIED IN THE PLANTING LEGEND. INSTALL A 4" THICK RING OF DOUBLE SHREDDED CEDAR BARK MULCH AROUND ALL PLANT MATERIAL IN ROCK MULCH BEDS WHERE LANDSCAPING IS SHOWN ON THE PLANS. WOOD MULCH RING SIZE SHALL BE THE CONTAINER SIZE OF THE SHRUBS, PERENNIALS, AND ORNAMENTAL GRASSES. TREE RING SIZE SHALL A MIN OF 3' DIA.
2. ALL MULCH SHALL BE HARVESTED IN A SUSTAINABLE MANNER FROM A LOCAL SOURCE.
3. INSTALL DEWITT PRO-5 WEED BARRIER FABRIC UNDER ALL ROCK MULCH SHRUB BEDS SPECIFIED ON THE PLANS ONLY. NO LANDSCAPE FABRIC SHALL BE USED IN WOOD MULCH AREAS OR UNDER DECOMPOSED GRANITE/CRUSHER FINES/BREEZE UNLESS OTHERWISE NOTED ON PLANS. NO PLASTIC WEED BARRIERS SHALL BE SPECIFIED.
4. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED.
5. ALL PLANTING AREAS WITH LESS THAN A 4:1 GRADIENT SHALL RECEIVE A LAYER OF MULCH, TYPE AND DEPTH PER PLANS. SUBMIT 1 CUBIC FOOT SAMPLE OF MULCH (ONE SAMPLE PER TYPE) TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. THE MULCH SHALL BE SPREAD EVENLY THROUGHOUT ALL PLANTING AREAS EXCEPT SLOPES 4:1 OR STEEPER, OR AS OTHERWISE DENOTED ON THE PLAN. ABSOLUTELY NO EXPOSED GROUND SHALL REMAIN IN AREAS TO RECEIVE MULCH AFTER MULCH HAS BEEN INSTALLED.
6. ALL PLANTING AREAS ON SLOPES OVER 3:1 SHALL RECEIVE COCONUT FIBER EROSION CONTROL NETTING FROM ROLLS. NETTING SHALL BE #CT-125, AS MANUFACTURED BY NORTH AMERICAN GREEN (OR EQUAL). INSTALL AND STAKE PER MANUFACTURER'S SPECIFICATIONS. SEE ALSO THE CIVIL ENGINEER'S EROSION CONTROL PLAN.
7. ALL LANDSCAPE BOULDERS SHOWN ON PLAN ARE TO BE A MINIMUM OF 10-12 CUBIC FEET.

PRESERVATION

1. THE CONTRACTOR SHALL TAKE EXTREME CARE NOT TO DAMAGE ANY EXISTING PLANTS INDICATED AS "TO REMAIN". ANY SUCH PLANTS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME SPECIES, SIZE, AND QUANTITY AT THE CONTRACTOR'S OWN EXPENSE, AND AS ACCEPTABLE TO THE OWNER. REFER TO THE TREE PROTECTION NOTES ON THE PLANS (AS APPLICABLE).
2. ALL PRESERVATION AREAS CONTAINING VEGETATION DESIGNATED TO BE PRESERVED SHALL BE FENCED OFF DURING CONSTRUCTION TO MINIMIZE DISTURBANCE IN THESE AREAS. ALL FENCING SHALL SHALL BE INSTALLED AROUND PRESERVED VEGETATION PRIOR TO ANY GRADING ON THE PROPERTY. A 4-FOOT ORANGE CONSTRUCTION SAFETY FENCE SHOULD BE USED IN THIS APPLICATION. SUBMIT PRODUCT INFORMATION TO L.A. FOR APPROVAL PRIOR TO INSTALLATION.

CITY OF LONE TREE LANDSCAPE PLAN NOTES

GENERAL

- THE PROPERTY HEREIN IS SUBJECT TO ALL APPLICABLE REQUIREMENTS OF LONE TREE MUNICIPAL CODE, EXCEPT AS MAY OTHERWISE BE ADDRESSED IN AN APPROVED PLANNED DEVELOPMENT OR SUB-AREA PLAN, SITE IMPROVEMENT PLAN, PRELIMINARY PLAN, FINAL PLAT, OR OTHER IMPROVEMENTS AND/OR MAINTENANCE AGREEMENTS, AS APPLICABLE.
- THE APPLICANT ASSUMES RESPONSIBILITY TO ENSURE THE PROJECT IS COMPLETED IN ACCORDANCE WITH THE APPROVED LANDSCAPE AND/OR IRRIGATION PLAN AND FURTHER ASSUMES THE RISK ASSOCIATED WITH ANY CHANGES OR OMISSIONS MADE WITHOUT PRIOR CITY APPROVAL. MODIFICATIONS TO THE LANDSCAPE PLAN MAY REQUIRE A LANDSCAPE PLAN AMENDMENT AS DETERMINED BY THE DIRECTOR. UNAUTHORIZED CHANGES OR OMISSIONS MAY RESULT IN CORRECTIVE ACTIONS, DELAY OF PERMITS, OR CITATIONS FOR ZONING VIOLATIONS WITH ASSOCIATED FINES AND LEGAL MEASURES.

ACCESS

- THE CITY OF LONE TREE REQUIRES THAT MAINTENANCE ACCESS BE PROVIDED TO ALL STORM DRAINAGE FACILITIES TO ENSURE THE CONTINUOUS OPERATIONAL CAPABILITIES OF THE SYSTEM. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL DRAINAGE FACILITIES, INCLUDING INLETS, PIPES, CULVERTS, CHANNELS, DITCHES, HYDRAULIC STRUCTURES AND DETENTION BASINS LOCATED ON THEIR LAND, UNLESS MODIFIED BY AN IMPROVEMENTS AGREEMENT. SHOULD THE OWNER FAIL TO ADEQUATELY MAINTAIN SAID FACILITIES, THE CITY OF LONE TREE SHALL HAVE THE RIGHT TO ENTER SAID LAND FOR THE PURPOSES OF OPERATIONS AND MAINTENANCE. ALL SUCH MAINTENANCE COSTS WILL BE ASSESSED TO THE PROPERTY OWNER.

MAINTENANCE RESPONSIBILITIES

- IT SHALL BE THE RESPONSIBILITY OF THE OWNER (OR RESPONSIBLE ASSOCIATION OR DISTRICT, AS MAY BE IDENTIFIED BY MAINTENANCE AGREEMENTS) TO MAINTAIN ALL IMPROVEMENTS ON THE PROPERTY IN A STATE OF GOOD REPAIR, TO ENSURE ALL IRRIGATION IS FUNCTIONAL, AND TO ENSURE ALL PLANTINGS ARE ALIVE, CONSISTENT WITH THE APPROVED LANDSCAPE AND IRRIGATION PLAN AND LONE TREE MUNICIPAL CODE.
- WITHIN SIGHT TRIANGLES AND SIGHT EASEMENTS, AS SHOWN, LIMITED LANDSCAPING SHALL BE ALLOWED WITH NO SOLID STRUCTURES PERMITTED, AS STATED IN THE CITY OF LONE TREE'S LANDSCAPE DESIGN GUIDELINES AND STANDARDS. LANDSCAPING WITHIN THE SIGHT TRIANGLE SHALL BE MAINTAINED BY THE PROPERTY OWNER OR RESPONSIBLE ASSOCIATION OR DISTRICT, AS MAY BE IDENTIFIED BY MAINTENANCE AGREEMENTS.

LANDSCAPE GUARANTEE AND MAINTENANCE

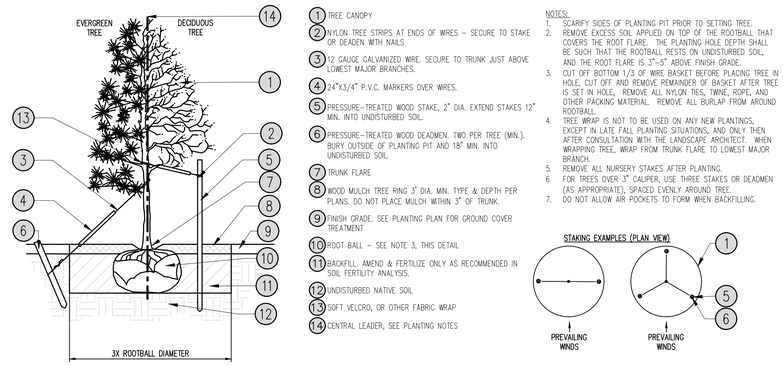
1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDED AREAS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S ACCEPTANCE. THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
2. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A NEAT, CLEAN, AND HEALTHY CONDITION FOR A PERIOD OF 90 DAYS. THIS SHALL INCLUDE PROPER PRUNING, MOWING AND AERATION OF LAWNS, WEEDING, REPLACEMENT OF MULCH, REMOVAL OF LITTER, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. IRRIGATION SHALL BE MAINTAINED IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON AND TO MAXIMIZE WATER CONSERVATION. IF SITE OPENS DURING WINTER, TO AVOID FREEZE DAMAGE ON PLANTINGS, THE 90 DAYS SHOULD BEGIN AFTER ACCEPTANCE OF THE WORK.
3. DURING THE LANDSCAPE MAINTENANCE PERIOD, THE LANDSCAPE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM STRUCTURES IN ALL LANDSCAPE AREAS AT THE MINIMUM SLOPE SPECIFIED IN THE GEOTECHNICAL REPORT. LANDSCAPE AREAS WHICH SETTLE AND CREATE THE POTENTIAL FOR PONDING SHALL BE REPAIRED TO ELIMINATE PONDING POTENTIAL AND BLEND IN WITH THE SURROUNDING GRADES. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GEOTECHNICAL REPORT, THE GRADING PLANS, THESE NOTES, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND OWNER.
4. REPLACE ANY TREES (EXISTING AND PROPOSED) AT A ONE-TO-ONE RATIO SHOULD THEY DIE OFF.

UTILITY NOTES

1. THE LANDSCAPE CONTRACTOR IS REQUIRED TO CONTACT THE COUNTY PUBLIC WORKS DEPARTMENT, AND ANY OTHER PUBLIC OR PRIVATE AGENCY NECESSARY FOR UTILITY LOCATION PRIOR TO ANY CONSTRUCTION.
2. THIS DRAWING IS A PART OF A COMPLETE SET OF BID DOCUMENTS, SPECIFICATIONS, ADDITIONAL DRAWINGS, AND EXHIBITS. UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED FOR CONSTRUCTION PURPOSES WITHOUT EXAMINING ACTUAL LOCATIONS OF UTILITIES ON SITE, AND REVIEWING ALL RELATED DOCUMENTS.
3. THE LOCATION OF THE ALL UNDERGROUND UTILITIES ARE LOCATED ON THE ENGINEERING DRAWINGS FOR THIS PROJECT. THE MOST CURRENT REVISION IS HERE IN MADE PART OF THIS DOCUMENT. UNDERGROUND UTILITIES EXIST THROUGHOUT THIS SITE AND MUST BE LOCATED PRIOR TO ANY CONSTRUCTION ACTIVITY. WHERE UNDERGROUND UTILITIES EXIST, FIELD ADJUSTMENT MAY BE NECESSARY AND MUST BE APPROVED BY A REPRESENTATIVE OF THE OWNER. NEITHER THE OWNER NOR THE LANDSCAPE ARCHITECT ASSUMES ANY RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE CONTRACTORS ACCURACY IN LOCATING THE INDICATED PLANT MATERIAL, AND UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED WITHOUT REFERENCING THE ABOVE MENTIONED DOCUMENTS.

IRRIGATION CONCEPT

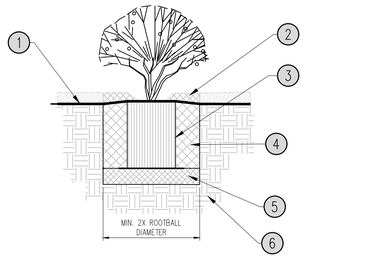
1. AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL BY THE TIME OF FINAL INSPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL BE INSTALLED BY A QUALIFIED IRRIGATION CONTRACTOR.
2. THE IRRIGATION SYSTEM WILL HAVE APPROPRIATE BACKFLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE WATER SOURCE IF APPLICABLE.
3. ALL NON-TURF/SEED PLANTED AREAS WILL BE DRIP IRRIGATED. TURF SOD/SEED SHALL RECEIVE POP-UP SPRAY IRRIGATION FOR HEAD TO HEAD COVERAGE.
4. ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDROZONE.
5. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED, TO THE MAXIMUM EXTENT POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVICES AND SYSTEMS: MATCHED PRECIPITATION RATE TECHNOLOGY ON ROTOR AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND SMART MULTI-PROGRAM COMPUTERIZED IRRIGATION CONTROLLERS FEATURING SENSORY INPUT CAPABILITIES.



1. TREE CANOPY
2. NYLON TREE STRIPS AT ENDS OF WIRES – SECURE TO STAKE OR DEADEN WITH NAILS
3. 12 GAUGE GALVANIZED WIRE. SECURE TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.
4. 24"X3/4" P.V.C. MARKERS OVER WIRES.
5. PRESSURE–TREATED WOOD STAKE, 2" DIA. EXTEND STAKES 12" MIN. INTO UNDISTURBED SOIL.
6. PRESSURE–TREATED WOOD DEADMEN. TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 18" MIN. INTO UNDISTURBED SOIL.
7. TRUNK FLARE
8. WOOD MULCH TREE RING 3" DIA. MIN. TYPE & DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 3" OF TRUNK.
9. FINISH GRADE. SEE PLANTING PLAN FOR GROUND COVER TREATMENT
10. ROOT BALL – SEE NOTE 3, THIS DETAIL
11. BACKFILL. AMEND & FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
12. UNDISTURBED NATIVE SOIL
13. SOFT VELCRO, OR OTHER FABRIC WRAP
14. CENTRAL LEADER, SEE PLANTING NOTES

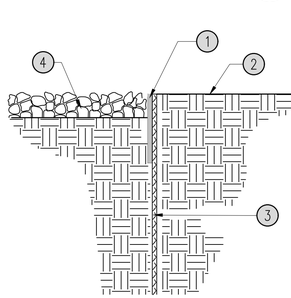
NOTES:
1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.
2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 3"–5" ABOVE FINISH GRADE.
3. CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE. REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE ALL BURLAP FROM AROUND ROOTBALL.
4. TREE WRAP IS NOT TO BE USED ON ANY NEW PLANTINGS, EXCEPT IN LATE FALL PLANTING SITUATIONS, AND ONLY THEN AFTER CONSULTATION WITH THE LANDSCAPE ARCHITECT. WHEN WRAPPING TREE, WRAP FROM TRUNK FLARE TO LOWEST MAJOR BRANCH.
5. REMOVE ALL NURSERY STAKES AFTER PLANTING.
6. FOR TREES OVER 3" CALIPER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.
7. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING.

1 TREE PLANTING
N.T.S.



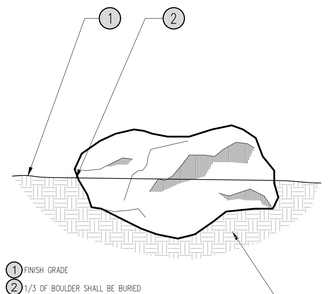
1. FINISH GRADE. SEE PLANTING PLAN FOR GROUND COVER TREATMENT
2. SHREDDED BARK MULCH, 3" MIN. DEPTH, ROUGHLY THE EXTENTS OF ROOTBALL
3. PLANT ROOT BALL. SET TOP ROOTBALL 2" ABOVE ADJACENT GRADE. IN BERMED AREAS SET ROOTBALL 2" ABOVE LOWER ADJACENT GRADE – INSTALL WATER RING (2 – 3" HT.)
4. BACKFILL MIX (PER PLANTING SPECIFICATIONS). AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS. JET BACKFILL WITH WATER TO ELIMINATE VOIDS.
5. COMPACTED BACKFILL MIX (75%).
6. UNDISTURBED NATIVE SOIL.

2 SHRUB/PERENNIAL PLANTING
N.T.S.



1. 14–GAUGE x 4" STEEL EDGING OR APPROVED EQUAL
2. FINISH GRADE
3. 16" STAKES AT 30" O.C.
4. 4" DEPTH MULCH

3 STEEL EDGE
N.T.S.



1. FINISH GRADE
2. 1/3 OF BOULDER SHALL BE BURIED
3. COMPACTED SUBGRADE

NOTES:
1. HARVEST LANDSCAPE BOULDERS FROM A LOCAL SOURCE, REFERENCE SPECIFICATIONS FOR TYPE & PLANS FOR LOCATIONS.
2. LANDSCAPE ARCHITECT TO VERIFY BOULDER LOCATIONS AND ORIENTATION PRIOR TO FINAL INSTALLATION.

4 LANDSCAPE BOULDER
N.T.S.

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

MURPHY OIL USA, INC
SITE IMPROVEMENT PLANS

9091 WESTVIEW ROAD
LONE TREE, COLORADO 80124

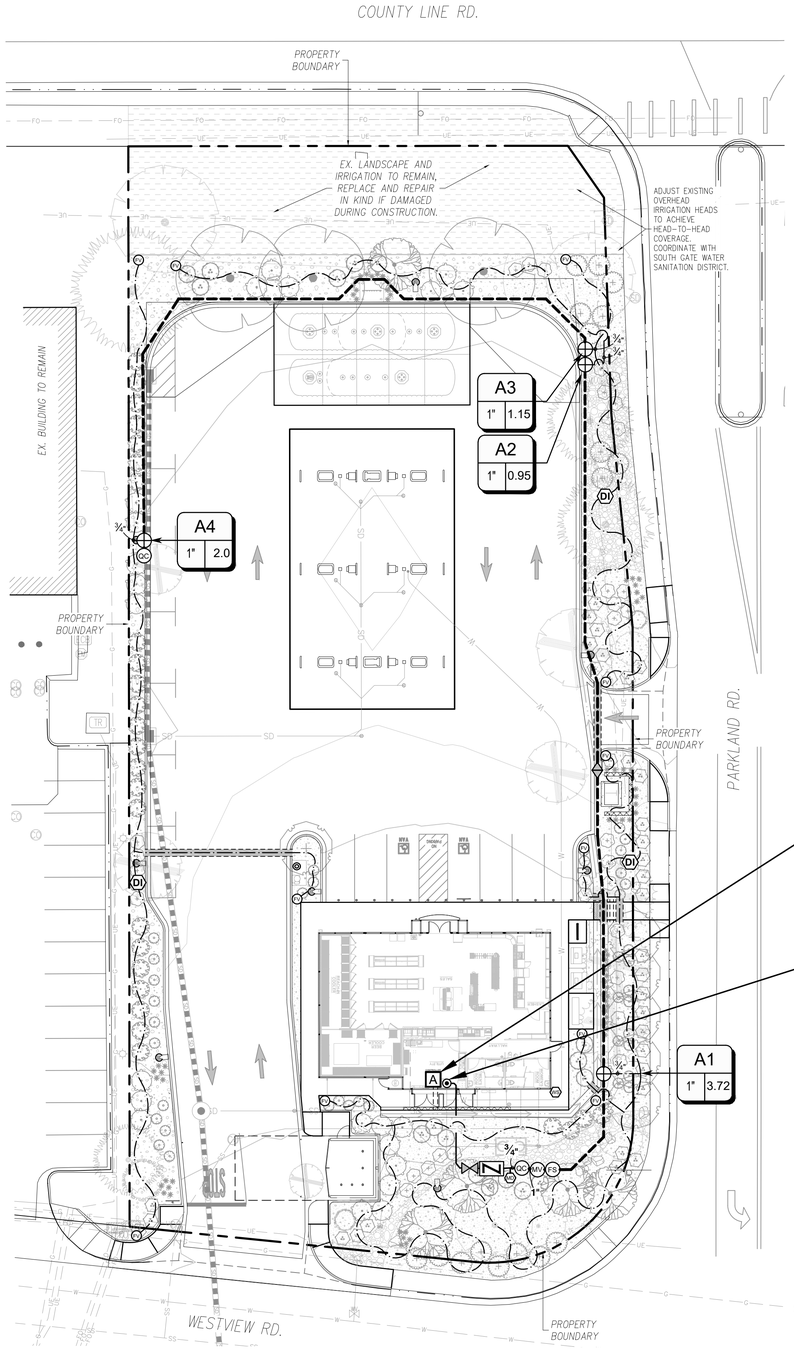
#	Date	Issue / Description	Init.
-	03/12/2026	1ST SIP SUBMITTAL	JDP
1	04/23/2026	2ND SIP SUBMITTAL	JDP
2	06/23/2026	3RD SIP SUBMITTAL	JDP
3	08/04/2026	4TH SIP SUBMITTAL	JDP
4	09/11/2026	5TH SIP SUBMITTAL	JDP
5	11/05/2026	6TH SIP SUBMITTAL	JDP

Project No: MOC148
Drawn By: TJR
Checked By: SRM
Date: 11/05/2026

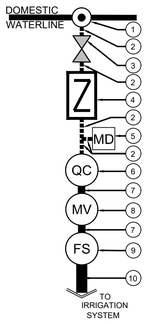
LANDSCAPE NOTES & DETAILS

13
Sheet 13 of 15

H:\Murphy oil usa\co lone tree - moc000148 - county line & parker\ENTITLEMENTS\CAD\MOC0148_CD-LS.dwg - Sidecar Etsheet - 11/5/2026



TYPICAL POINT OF CONNECTION SCHEMATIC DIAGRAM



1. IRRIGATION POINT OF CONNECTION. TAP INTO THE DOMESTIC WATERLINE DOWNSTREAM OF THE BUILDING METER.
2. 1" K COPPER WATER SERVICE PIPE
3. GATE VALVE
4. 1" BACKFLOW DEVICE
5. MANUAL DRAIN VALVE
6. 1" QUICK COUPLER
7. 1" PVC LINE, CLASS 200 PIPE
8. 1" MASTER VALVE
9. 1" FLOW SENSOR
10. 1" MAINLINE, CLASS 200 PIPE

WINTERIZATION PROCEDURES:
TURN OFF SYSTEM AT THE GATE VALVE DOWNSTREAM OF THE IRRIGATION METER. OPEN ONE CONTROL VALVE TO RELIEVE PRESSURE SLOWLY OPEN BLOW OUT VALVE. REPEAT PROCEDURE FOR ALL BLOW OUT VALVES ALONG IRRIGATION MAINLINE.

CONTROLLER 'A' NOTE

- ONE (1) 8 STATION CONTROLLER, SEE LEGEND.
- FOUR (4) OPEN STATIONS FOR FUTURE EXPANSION.
- STATION RUN ORDER SHALL MATCH PLANS.
- LOCATE CONTROLLER IN THE UTILITY CLOSET AS SPECIFIED ON THE PLANS. VERIFY LOCATION WITH OWNER OR REPRESENTATIVE.
- 120 VAC POWER TO CONTROLLER LOCATION SHALL BE PROVIDED BY OTHERS. HOOK-UP OF CONTROLLERS TO 120 VAC SHALL BE PERFORMED BY THE LANDSCAPE CONTRACTOR.
- CONDUIT FROM INSIDE THE BUILDING TO EXTERIOR IRRIGATION SYSTEM SHALL BE PROVIDED BY OTHERS.

POINT OF CONNECTION 'A'

STATIC PRESSURE: +/- 80 PSI DESIGNED SIZE OF TAP: 1"

- USE 1" TAP AND INTO THE DOMESTIC WATER LINE AFTER THE METER.
- 1" TYPE K COPPER SERVICE FROM THE TAP THROUGH THE IRRIGATION BACKFLOW, TO THE QUICK COUPLER.
- CONTRACTOR SHALL VERIFY LOCATION OF THE EQUIPMENT, IN FIELD WITH OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT.
- SEE POINT OF CONNECTION DIAGRAM, THIS SHEET, FOR THE IRRIGATION SYSTEM EQUIPMENT CONFIGURATION.
- THE IRRIGATION CONTRACTOR SHALL FIELD VERIFY THE STATIC & OPERATING WATER PRESSURE SHOWN ABOVE PRIOR TO CONSTRUCTION. IF PRESSURE IS UNKNOWN, THE CONTRACTOR MUST TEST WATER PRESSURE AND CONTACT THE LANDSCAPE ARCHITECT WITH THE RESULTS TO ENSURE SYSTEM WILL BE OPERATIONAL. SEE GENERAL IRRIGATION NOTES.
- WHEN WATER PRESSURE TO THE IRRIGATION SYSTEM EXCEEDS 100 PSI, THE IRRIGATION CONTRACTOR SHALL INSTALL A PRESSURE REDUCING / REGULATING VALVE (PRV) TO LIMIT THE WATER TO 80 PSI MAXIMUM. WHEN PRESSURE DROPS BELOW 65 PSI, THE IRRIGATION CONTRACTOR SHALL INSTALL A BOOSTER PUMP TO A MINIMUM PRESSURE OF 80 PSI.

IRRIGATION DISCLAIMER

1. DRAWINGS ARE DIAGRAMMATIC, IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE OF PLANTING AREAS FOR CLARITY ONLY. CONTRACTOR SHALL AVOID CONFLICTS WITH PLANT MATERIALS AND ARCHITECTURAL FEATURES ALL PIPING AND WIRING SHALL BE INSTALLED IN PLANTING AREA OR IN SLEEVES. NO PIPING UNDER TREES OR SHRUBS WILL BE ACCEPTED.
2. CONTRACTOR SHALL INSTALL MAINLINES ±12" FROM PAVEMENT EDGE IN PLANTING AREAS. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS AS INDICATED ON THESE PLANS.
3. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE AND VISIBLE IRRIGATION EQUIPMENT (CONTROLLERS, BACKFLOW PREVENTERS, METER PITS, ETC.) WITH THE OWNER'S AUTHORIZED REPRESENTATIVE AND / OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. THE INSTALLATION OF THESE ITEMS SHALL BE INTEGRATED WITHIN DESIGNATED LANDSCAPE AREAS. FAILURE TO LOCATE THIS EQUIPMENT IN AN APPROVED LOCATION MAY RESULT IN THE IRRIGATION CONTRACTOR BEING REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST.
4. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE DRAWINGS. THE IRRIGATION CONTRACTOR SHALL FIELD VERIFY THE STATIC & OPERATING WATER PRESSURE PRIOR TO CONSTRUCTION OF ANY COMPONENT OF THE IRRIGATION SYSTEM. AFTER FIELD VERIFICATION, THE IRRIGATION CONTRACTOR SHALL NOTIFY THE OWNER, OWNER'S REPRESENTATIVE, LANDSCAPE ARCHITECT, & IRRIGATION DESIGNER OF THE PRESSURE READING FOR THE TAP.
5. ALL PRESSURIZED MAINLINES, VALVES, DRIP, AND ROTOR AND SPRAY HEADS SHALL BE INSTALLED A MINIMUM OF 5' AWAY FROM ANY BUILDING FOUNDATION. ADDITIONAL REQUIREMENTS MAY BE LISTED IN THE GEOTECHNICAL REPORT REGARDING IRRIGATION NEAR BUILDING FOUNDATIONS. CONTRACTOR IS RESPONSIBLE TO ABIDE BY THE 5' MINIMUM DISTANCE AND/OR THE GEOTECHNICAL REPORT REQUIREMENTS. IF THIS EQUIPMENT IS SHOWN WITHIN THE 5' OFFSET ON THESE PLANS, IT IS FOR THE PURPOSE OF GRAPHIC CLARITY ONLY.
6. REFER TO THIS SHEET, 15, AND 16 FOR IRRIGATION NOTES AND IRRIGATION DETAILS.

WIRING/SLEEVING NOTES

IN ADDITION TO PROVIDING SLEEVES FOR ALL PIPING UNDER ROADWAYS AND WALKWAYS, PROVIDE AND INSTALL SCH. 40 PVC SLEEVES FOR ALL CONTROLLER WIRES OCCURRING UNDER ALL ROADWAYS AND WALKWAYS. SLEEVES FOR CONTROLLER WIRES SHALL BE 2" DIA. AND CONTAIN NO MORE THAN 25 WIRES.

UTILITY NOTES

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2. THIS DRAWING IS A PART OF A COMPLETE SET OF BID DOCUMENTS, SPECIFICATIONS, ADDITIONAL DRAWINGS, AND EXHIBITS. UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED FOR CONSTRUCTION PURPOSES WITHOUT EXAMINING ACTUAL LOCATIONS OF UTILITIES ON SITE, AND REVIEWING ALL RELATED DOCUMENTS.
3. THE LOCATION OF THE ALL UNDERGROUND UTILITIES ARE LOCATED ON THE ENGINEERING DRAWINGS FOR THIS PROJECT. THE MOST CURRENT REVISION IS HERE IN MADE PART OF THIS DOCUMENT. UNDERGROUND UTILITIES EXIST THROUGHOUT THIS SITE AND MUST BE LOCATED PRIOR TO ANY CONSTRUCTION ACTIVITY. WHERE UNDERGROUND UTILITIES EXIST, FIELD ADJUSTMENT MAY BE NECESSARY AND MUST BE APPROVED BY A REPRESENTATIVE OF THE OWNER. NEITHER THE OWNER NOR THE LANDSCAPE ARCHITECT ASSUMES ANY RESPONSIBILITY WHATSOEVER, IN RESPECT TO THE CONTRACTORS ACCURACY IN LOCATING THE INDICATED PLANT MATERIAL, AND UNDER NO CIRCUMSTANCES SHOULD THESE PLANS BE USED WITHOUT REFERENCING THE ABOVE MENTIONED DOCUMENTS.

CITY OF LONE TREE IRRIGATION NOTES

1. IRRIGATION SHALL OCCUR BETWEEN THE HOURS OF 8:00 PM AND 6:00 AM.
2. ANY IRRIGATION EQUIPMENT MOUNTED TO THE BUILDING SHALL BE PAINTED TO MATCH THE BUILDING

CAUTION – NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POTHOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

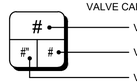
811 Know what's **below.** **Call** before you dig.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
⊕	HUNTER ICZ-101-25-LF 1" DRIP CONTROL ZONE KIT. 1IN. ICV GLOBE VALVE WITH 1IN. HY100 FILTER SYSTEM. PRESSURE REGULATION: 25 PSI. FLOW RANGE: .5 GPM - 15 GPM. 150 MESH STAINLESS STEEL SCREEN.	SHEET IR-2 / 15 DETAIL 1
FO	NIBCO 4660-T 3/4" SCHEDULE 40 MANUAL FLUSH VALVE. CONNECT TO DRIP POLYTUBING FOR WINTERIZATION/BLOWOUT.	SHEET IR-2 / 15 DETAIL 2
DI	HUNTER ECO-ID-12 ECO-ID: 1/2IN. FPT CONNECTION WITH 15 PSI - 100 PSI OPERATING PRESSURE.	SHEET IR-2 / 15 DETAIL 3
	AREA TO RECEIVE DRIP EMITTERS HUNTER HE-B POINT SOURCE DRIP EMITTER WITH SELF PIERCING BARB. COLOR CODED EMITTERS FOR FLOW RATES OF 0.5 GPH, 1.0 GPH, 2.0 GPH, 4.0 GPH, AND 6.0 GPH. CAN BE INSERTED INTO 1/2IN. AND 3/4IN. TUBING AND HAVE PRESSURE COMPENSATING FROM 15 PSI-50 PSI. OPTIONAL DIFFUSER CAP (HE) AVAILABLE.	
	EMITTER SCHEDULE: -1 GALLON AND SMALLER: 2, HEB-5-B EMITTER PER PLANT (1 GPH TOTAL) -5 GALLON: 2, HEB-10-B EMITTERS PER PLANT (2 GPH TOTAL) -10-15 GALLONS & UPRIGHT JUNIPERS: 3, HEB-10-B EMITTERS PER PLANT (3 GPH TOTAL) -1" TO 2-1/2" CALIPER TREES: 4, HEB-10-B EMITTERS PER PLANT (4 GPH TOTAL) -3" TO 4" CALIPER TREES: 6, HEB-10-B EMITTERS PER PLANT (6 GPH TOTAL)	SHEET IR-2 / 15 DETAIL 4

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	DETAIL
QC	HUNTER HQ-44LRC 1" QUICK COUPLER VALVE, YELLOW RUBBER LOCKING COVER, RED BRASS AND STAINLESS STEEL, WITH 1IN. NPT INLET, 2-PIECE BODY.	SHEET IR-2 / 15 DETAIL 5
◈	NIBCO 4660-S SCHEDULE 40 MANUAL BALL VALVE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 3/4" - 3".	SHEET IR-2 / 15 DETAIL 6
⋈	NIBCO T-113-K CLASS 125 BRONZE GATE SHUT OFF VALVE WITH CROSS HANDLE, SAME SIZE AS MAINLINE PIPE DIAMETER AT VALVE LOCATION. SIZE RANGE - 1/4IN. - 3IN.	SHEET IR-2 / 15 DETAIL 7
MV	HUNTER IBV-FS 1" 1IN., 1-1/2IN., 2IN., AND 3IN. BRASS ELECTRIC MASTER VALVE, GLOBE CONFIGURATION, WITH NPT THREADED INLET/OUTLET, FOR COMMERCIAL/MUNICIPAL USE. WITH FILTER SENTRY FACTORY INSTALLED OPTION.	SHEET IR-2 / 15 DETAIL 8
MD	1" NIBCO T-113-K 1" CLASS 125 BRONZE MANUAL DRAIN VALVE WITH CROSS HANDLE	SHEET IR-2 / 15 DETAIL 9
N	FEBCO 825Y 1" REDUCED PRESSURE BACKFLOW PREVENTER	SHEET IR-2 / 15 DETAIL 10
A	HUNTER I2C-0800-M 8 STATION INDOOR/OUTDOOR MODULAR CONTROLLER. NO MODULE REQUIRED. COMMERCIAL USE. METAL CABINET.	SHEET IR-3 / 16 DETAIL 11
WS	HUNTER WSS WIRELESS SOLAR, RAIN FREEZE SENSOR WITH OUTDOOR INTERFACE, INSTALL ON CORNER OF BUILDING, PAINT MODULE TO MATCH BUILDING/FLASHING COLOR. INCLUDES GUTTER MOUNT BRACKET.	SHEET IR-3 / 16 DETAIL 12
FS	HUNTER HFS-100 FLOW SENSOR FOR USE WITH ICC2 CONTROLLER, 1IN. SCHEDULE 40 SENSOR BODY, 24 VAC, 2 AMP.	SHEET IR-3 / 16 DETAIL 13
	POINT OF CONNECTION 1" USE 1" DEDICATED IRRIGATION TAP INTO THE DOMESTIC WATERLINE DOWNSTREAM FROM THE BUILDING METER.	N/A
	IRRIGATION LATERAL LINE: POLYETHYLENE PIPE SDR-7 SIZE: 3/4"	SHEET IR-3 / 16 DETAIL 14
	IRRIGATION MAINLINE: PVC CLASS 200 SDR-21 SIZE: 1"	SHEET IR-3 / 16 DETAIL 14
	IRRIGATION SERVICE LINE: TYPE K COPPER PIPE SIZE: 1" UNLESS OTHERWISE NOTED ON THE PLAN	SHEET IR-3 / 16 DETAIL 14
	WIRE SLEEVE: PVC SCHEDULE 40 SIZE: 2"	SHEET IR-3 / 16 DETAIL 14
	PIPE SLEEVE: PVC SCHEDULE 40 SIZE: DOUBLE THE SIZE OF PIPE INSERTED	SHEET IR-3 / 16 DETAIL 14

VALVE CALLOUT



JAC
EDN

IRRIGATION PLAN

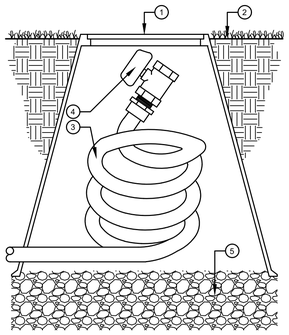
MURPHY OIL USA, INC.

MURPHY USA (NTI) #25181 SITE IMPROVEMENT PLAN

LOT 3, PARK MEADOWS, TOWN CENTER FILING NO.1 -A, 3RD AMENDMENT
LOCATED IN THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 3
TOWNSHIP 6 SOUTH, RANGE 67 WEST OF THE PRINCIPAL MERIDIAN

0.97 ACRES

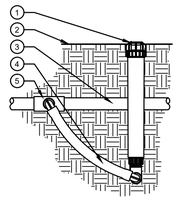
SP26-0007



1. CARSON VALVE BOX OR APPROVED EQUAL. "FV" BRAND ON LID.
2. FINISH GRADE
3. POLYPIPE DRIP LINE, COIL AN ADDITIONAL 36" WITHIN BOX
4. MANUAL FLUSH BALL VALVE PER IRRIGATION SCHEDULE
5. 3" MINIMUM LAYER OF 3/4" MINUS WASHED GRAVEL

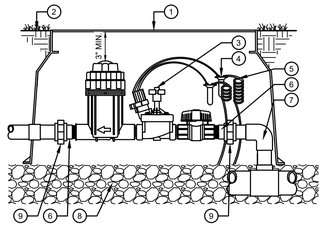
NOTE: KINKED PINCHED, OR OTHERWISE DAMAGED POLYPIPE WILL NOT BE ACCEPTED.

1 MANUAL FLUSH DRAIN VALVE
N.T.S.



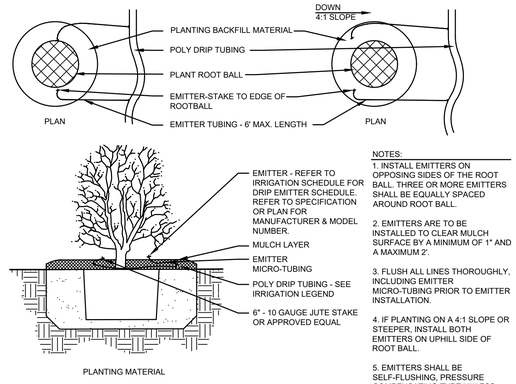
1. PRESSURE INDICATOR PER IRRIGATION SCHEDULE
2. FINISHED GRADE
3. DRIPPER LINE
4. FLEX TUBING
5. SLIP X SLIP X FPT REDUCING TEE. USE MARLEX STREET ELBOWS FOR SWING JOINTS.

2 DRIPLINE PRESSURE INDICATOR
N.T.S.



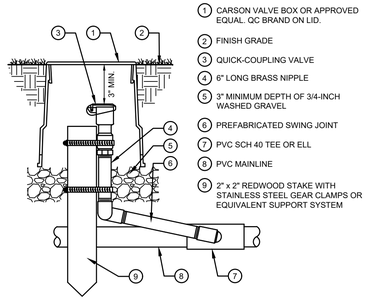
1. CARSON VALVE BOX OR APPROVED EQUAL. STATION NUMBER BRAND ON LID.
2. FINISH GRADE
3. DRIP ZONE KIT PER PLAN
4. WATERPROOF CONNECTORS (2)
5. 24" COILED WIRE
6. SCH 80 T.O.E. NIPPLE
7. MAIN LINE PIPE & FITTINGS
8. 3" MINIMUM LAYER OF 3/4" MINUS WASHED GRAVEL
9. PVC SLIP UNIONS

3 REMOTE DRIP CONTROL VALVE
N.T.S.



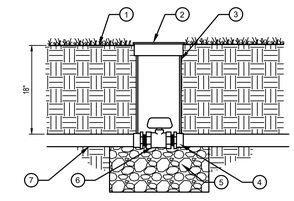
NOTES:
1. INSTALL EMITTERS ON OPPOSING SIDES OF THE ROOT BALL. THREE OR MORE EMITTERS SHALL BE EQUALLY SPACED AROUND ROOT BALL.
2. EMITTERS ARE TO BE INSTALLED TO CLEAR MULCH SURFACE BY A MINIMUM OF 1" AND A MAXIMUM 2'.
3. FLUSH ALL LINES THOROUGHLY, INCLUDING EMITTER MICRO-TUBING PRIOR TO EMITTER INSTALLATION.
4. IF PLANTING ON A 4:1 SLOPE OR STEEPER, INSTALL BOTH EMITTERS ON UPHILL SIDE OF ROOT BALL.
5. EMITTERS SHALL BE SELF-FLUSHING, PRESSURE COMPENSATING-TYPE UNLESS NOTED OTHERWISE WITHIN TECHNICAL SPECIFICATIONS.

4 DRIP EMITTERS LAYOUT
N.T.S.



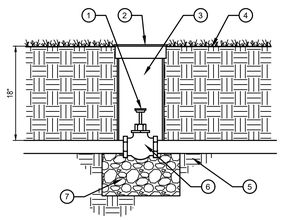
1. CARSON VALVE BOX OR APPROVED EQUAL. QC BRAND ON LID.
2. FINISH GRADE
3. QUICK-COUPLING VALVE
4. 6" LONG BRASS NIPPLE
5. 3" MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
6. PREFABRICATED SWING JOINT
7. PVC SCH 40 TEE OR ELL
8. PVC MAINLINE
9. 2" x 2" REDWOOD STAKE WITH STAINLESS STEEL GEAR CLAMPS OR EQUIVALENT SUPPORT SYSTEM

5 QUICK COUPLER
N.T.S.



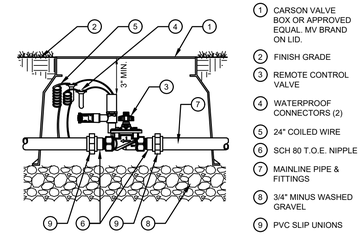
1. FINISH GRADE AT 1" BELOW TOP OF BOX IN TURF AREAS; 2" BELOW TOP OF BOX IN SHRUB/GROUNDCOVER AREAS
2. CARSON VALVE BOX OR APPROVED EQUAL. BV BRAND ON LID.
3. EXTENSION SECTION AS NECESSARY TO MEET GRADE
4. PVC MALE ADAPTER
5. 3" MINIMUM LAYER OF 3/4" MINUS WASHED GRAVEL
6. PLASTIC BALL VALVE (SIZED PER MAINLINE)
7. IRRIGATION MAINLINE

6 BALL VALVE
N.T.S.



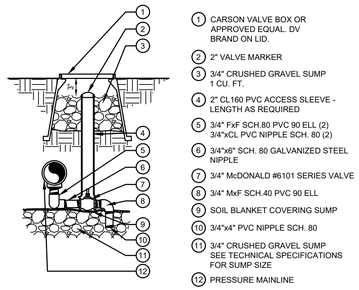
1. KEY HEAD PER HEAD
2. CARSON VALVE BOX OR APPROVED EQUAL.
3. 4" PVC SLEEVE
4. FINISH GRADE AT 1" BELOW TOP OF BOX IN TURF AREAS; 2" BELOW TOP OF BOX IN SHRUB/GROUNDCOVER AREAS
5. IRRIGATION MAINLINE
6. GATE VALVE (SIZED PER MAINLINE)
7. 3" MINIMUM LAYER OF 3/4" MINUS WASHED GRAVEL

7 GATE VALVE
N.T.S.



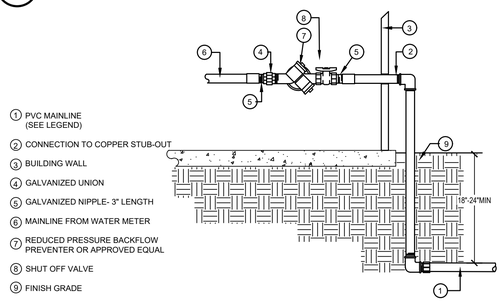
1. CARSON VALVE BOX OR APPROVED EQUAL. MV BRAND ON LID.
2. FINISH GRADE
3. REMOTE CONTROL VALVE
4. WATERPROOF CONNECTORS (2)
5. 24" COILED WIRE
6. SCH 80 T.O.E. NIPPLE
7. MAINLINE PIPE & FITTINGS
8. 3/4" MINUS WASHED GRAVEL
9. PVC SLIP UNIONS

8 MASTER VALVE
N.T.S.



1. CARSON VALVE BOX OR APPROVED EQUAL. DV BRAND ON LID.
2. 2" VALVE MARKER
3. 3/4" CRUSHED GRAVEL SUMP 1 CU. FT.
4. 2" CL160 PVC ACCESS SLEEVE - LENGTH AS REQUIRED
5. 3/4" FxF SCH.80 PVC 90 ELL (2) 3/4"xCL PVC NIPPLE SCH. 80 (2)
6. 3/4"x6" SCH. 80 GALVANIZED STEEL NIPPLE
7. 3/4" McDONALD #6101 SERIES VALVE
8. 3/4" MxF SCH.40 PVC 90 ELL
9. SOIL BLANKET COVERING SUMP
10. 3/4"x4" PVC NIPPLE SCH. 80
11. 3/4" CRUSHED GRAVEL SUMP SEE TECHNICAL SPECIFICATIONS FOR SUMP SIZE
12. PRESSURE MAINLINE

9 MANUAL DRAIN VALVE
N.T.S.



1. PVC MAINLINE (SEE LEGEND)
2. CONNECTION TO COPPER STUB-OUT
3. BUILDING WALL
4. GALVANIZED UNION
5. GALVANIZED NIPPLE- 3" LENGTH
6. MAINLINE FROM WATER METER
7. REDUCED PRESSURE BACKFLOW PREVENTER OR APPROVED EQUAL
8. SHUT OFF VALVE
9. FINISH GRADE

10 INDOOR R.P. BACKFLOW PREVENTER
N.T.S

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

NOT FOR CONSTRUCTION

MURPHY OIL USA, INC
SITE IMPROVEMENT PLANS

9091 WESTVIEW ROAD
LONE TREE, COLORADO 80124

#	Date	Issue / Description	Init.
-	03/12/2026	1ST SIP SUBMITTAL	JDP
1	04/23/2026	2ND SIP SUBMITTAL	JDP
2	06/23/2026	3RD SIP SUBMITTAL	JDP
3	08/04/2026	4TH SIP SUBMITTAL	JDP
4	09/11/2026	5TH SIP SUBMITTAL	JDP
5	11/05/2026	6TH SIP SUBMITTAL	JDP

Project No: MOC148
Drawn By: JAC
Checked By: EDN
Date: 11/05/2026

IRRIGATION NOTES & DETAILS

H:\Murphy Oil USA\Inc. tone tree - mo025148 - county line & parker\ASSET_A3-CDM\O25148_CD-RSE.dwg, Sidena Erdelnic - 11/5/2026

MURPHY OIL USA, INC.

MURPHY USA (NTI) #25181 SITE IMPROVEMENT PLAN

LOT 3, PARK MEADOWS, TOWN CENTER FILING NO.1 -A, 3RD AMENDMENT
LOCATED IN THE NORTHWEST CORNER OF THE NORTHWEST QUARTER OF SECTION 3
TOWNSHIP 6 SOUTH, RANGE 67 WEST OF THE PRINCIPAL MERIDIAN

0.97 ACRES

SP26-0007

GENERAL IRRIGATION NOTES

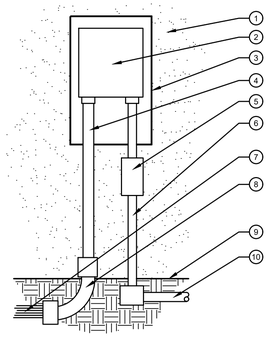
1. IRRIGATION DESIGN IS BASED ON THEORIES, ASSUMPTIONS, AND/OR INFORMATION PROVIDED BY CIVIL MODELS/UTILITIES/MUNICIPAL ENTITIES AND THUS, IS DIAGRAMMATIC IN NATURE. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR GRAPHIC CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST.
2. REFER TO SPECIFICATIONS (AS APPROPRIATE) FOR SUBMITTALS, INSPECTIONS AND OTHER APPLICABLE INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A COPY OF THE PROJECT SPECIFICATIONS PRIOR TO BIDDING. THE PROJECT SPECIFICATIONS ARE A PART OF THESE PLANS AND SHALL BE CONSULTED BY THE IRRIGATION CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING WORK AS SPECIFIED IN THE PROJECT SPECIFICATIONS AND ON THE PLANS.
3. THE IRRIGATION CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK, AND SHALL OBTAIN ALL ENGINEERING, LANDSCAPE, AND OTHER APPLICABLE PLANS & DOCUMENTS. CONTRACTOR SHALL THOROUGHLY REVIEW PLANS & REPORT ANY CONFLICTS OR DISCREPANCIES TO OWNER'S REPRESENTATIVE IMMEDIATELY.
4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK. DO NOT INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS, GRADE DIFFERENCES, OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE EXISTED AT THE TIME OF THE IRRIGATION DESIGN PREPARATION. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND LANDSCAPE ARCHITECT. IN THE EVENT THIS NOTIFICATION IS NOT GIVEN, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY TO BRING THE SYSTEM TO A PROPER WORKING CONDITION, AND TO THE OWNER'S SATISFACTION.
5. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, RETAINING WALLS, ETC. THE IRRIGATION CONTRACTOR SHALL COORDINATE HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUBCONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES THROUGH WALL, UNDER ROADWAY PAVING, ETC.
6. THE CONTRACTOR SHALL MAKE NO SUBSTITUTIONS, DELETIONS, OR ADDITIONS TO THIS PLAN WITHOUT APPROVAL OF THE LANDSCAPE ARCHITECT.
7. SEE CIVIL ENGINEER'S DRAWINGS FOR IRRIGATION POINT OF CONNECTION (TAP) AND DOMESTIC WATER SUPPLY.
8. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS
9. THE IRRIGATION SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE AND THE MAXIMUM FLOW DEMAND SHOWN ON THE POINT OF CONNECTION NOTE TAG(S) ON THE DRAWINGS. THE IRRIGATION CONTRACTOR SHALL FIELD VERIFY THE STATIC & OPERATING WATER PRESSURE PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DIFFERENCES BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE AND LANDSCAPE ARCHITECT. IN THE EVENT PRESSURE DIFFERENCES ARE NOT REPORTED OR PRESSURES HAVE GREATLY CHANGED PRIOR TO THE START OF THE IRRIGATION SYSTEM CONSTRUCTION, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR RECOMMENDING A SOLUTION AND PROVIDING AN ADD ALTERNATE BID FOR IRRIGATION COSTS.
10. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IF AVAILABLE WATER PRESSURE EXCEEDS 5 PSI HIGHER OR LOWER THAN AVAILABLE WATER PRESSURE.
11. NO MORE THAN 90% OF AVAILABLE MINIMUM STATIC WATER PRESSURE WAS USED IN PREPARATION OF THESE PLANS, FURTHERMORE, THE MAXIMUM FLOW THROUGH THE METER SHOULD NOT EXCEED 75% OF THE MAXIMUM SAFE FLOW.
12. SUPPLY LINE AND METER TO BE PROVIDED BY GENERAL CONTRACTOR. BACKFLOW PREVENTER TO BE PROVIDED BY IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR'S POINT OF CONNECTION TO BEGIN AFTER THE IRRIGATION WATER METER.
13. INSTALL ALL MATERIALS AND EQUIPMENT AS SHOWN ON THE PLANS AND DETAILS. NO SUBSTITUTIONS OF EQUIPMENT WILL BE ACCEPTABLE WITHOUT PRIOR WRITTEN APPROVAL BY THE LANDSCAPE ARCHITECT OR THE OWNERS REPRESENTATIVE. THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO REMOVE AND REPLACE ALL UNAPPROVED SUBSTITUTED EQUIPMENT AT HIS OWN COST IF SO DIRECTED BY THE OWNER.
14. WHEN INSTALLING IRRIGATION PIPE AND EQUIPMENT NEXT TO HARDSCAPE (SUCH AS WALLS, CURBS, OR WALKS), PLACE PIPE AS CLOSE AS POSSIBLE TO HARDSCAPE TO AVOID CONFLICTS WITH PLANTING. REFER TO MAINLINE TRENCHING DETAILS FOR ADDITIONAL INFORMATION.
15. THE IRRIGATION CONTRACTOR SHALL COORDINATE 120 V.A.C. ELECTRICAL POWER TO CONTROLLERS AND DEDICATE ONE (1) 20-AMP BREAKER FOR EACH CONTROLLER. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL SOURCE TO THE CONTROLLER UNIT ONLY.
16. THE RAIN SENSOR SHALL BE LOCATED NEAR THE IRRIGATION CONTROLLER, AND SHALL BE MOUNTED AS SHOWN ON THE DETAIL AND/OR LEGEND. LOCATE SENSOR AWAY FROM TALL TREES, SHRUBS, AND OTHER POTENTIAL OBSTRUCTIONS.
17. ALL VALVE CONTROL WIRE SHALL BE AWG 14 TYPE UF, 600 VOLT TEST, DIRECT BURIAL. NO SPLICES SHALL BE ALLOWED EXCEPT AT VALVES AND CONTROLLER. WHERE SPLICES MAY BE NECESSARY DUE TO EXCESSIVELY LONG WIRE RUNS, THE CONTRACTOR SHALL MAKE ALL SPLICES IN 6" ROUND VALVE BOXES WITH 3M'S "DBY-DIRECT BURIAL SPLICE KIT". THE CONTRACTOR SHALL LABEL ALL WIRES WITH WATERPROOF TAGS AND MARKERS AT ALL SPLICES AND VALVE MANIFOLDS, AND SHALL LEAVE A 24" COIL OF EXCESS WIRE AT EACH CONNECTION.
18. CONTRACTOR SHALL PROVIDE #10 COMMON WIRE, DIRECT BURIAL, TO ALL REMOTE CONTROL VALVES.
19. CONNECT ALL DIRECT BURIAL WIRES TO VALVES USING 3M'S "DBY-DIRECT BURIAL SPLICE KIT" (UNLESS OTHERWISE SPECIFIED).
20. PROVIDE ADDITIONAL IRRIGATION CONTROL WIRES TO THE AMOUNT OF OPEN ZONES ON THE CONTROLLER ALONG EACH BRANCH OF MAINLINE FOR FUTURE EXPANSION. STUB ADDITIONAL CONTROL WIRES INTO BACK OF IRRIGATION CONTROLLERS.
21. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL CONTROL WIRE SLEEVES AND PIPE SLEEVES UNDER PAVED AREAS PRIOR TO PAVING. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES. ALL SLEEVING SHALL BE PVC SCHEDULE 40 PIPE. SLEEVES FOR MAINLINE AND LATERAL LINES SHALL BE A MINIMUM TWICE THE DIAMETER OF THE ENCLOSED PIPE; SLEEVES FOR CONTROL WIRES SHALL BE AS PER THE SLEEVING / WIRING NOTE AND THE WIRING SLEEVE LEGEND ITEM AS SHOWN ON THESE DRAWINGS.
22. TRENCH BACKFILL MATERIAL SHALL BE FREE OF ROCKS, GLASS, AND OTHER EXTRANEOUS MATERIALS LARGER THAN 1" IN DIAMETER. BACKFILL SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY.
23. WHERE VALVES ARE LOCATED IN CLOSE PROXIMITY TO EACH OTHER, CLUSTER VALVES INTO MANIFOLDS. INSTALL NO MORE THAN ONE VALVE PER VALVE BOX.
24. MANUAL DRAIN VALVE, FOR FREEZE PROTECTION, ARE TO BE LOCATED AT ALL LOW POINTS OF IRRIGATION LATERAL LINES. WHERE THE LOW POINT IS AT THE END OF THE LINE, LOCATE DRAIN VALVE A MINIMUM OF 12" DOWNSTREAM FROM THE LAST SPRINKLER HEAD. SEE DETAIL FOR VALVE ORIENTATION.
25. USE TEFLON TAPE ON ALL PVC MALE PIPE THREADS ON ALL SWING JOINT AND VALVE ASSEMBLIES.
26. ALL IRRIGATION HEADS, INCLUDING FIXED-SPRAY AND DRIP DEVICES, SHALL BE SET PERPENDICULAR TO THE FINISH GRADE OF THE AREA TO BE IRRIGATED.
27. ALL PRESSURIZED MAINLINES, VALVES, DRIP, AND ROTOR AND SPRAY HEADS SHALL BE INSTALLED A MINIMUM OF 3' AWAY FROM ANY BUILDING FOUNDATION. IF THIS EQUIPMENT IS SHOWN WITHIN THE 3' OFFSET ON THESE PLANS, IT IS FOR THE PURPOSE OF GRAPHIC CLARITY ONLY.
28. EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE, IT IS THE INTENT OF THE IRRIGATION DESIGN TO INDICATE ALL SPRAY HEADS AS "POP-UPS". IN THE EVENT THAT POP-UP HEADS HAVE NOT BEEN SPECIFIED IN TURF AREAS, IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO BRING THIS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BIDDING AND CONSTRUCTION.
29. ALL SPRAY AND ROTOR HEAD LOCATIONS SHALL BE STAKED, FLAGGED AND/OR OTHERWISE CLEARLY MARKED ON THE GROUND PRIOR TO INSTALLATION. SPRINKLER HEAD STAKING SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE OR THE LANDSCAPE ARCHITECT BEFORE INSTALLATION. STAKED LOCATIONS SHALL BE SPACED TO PROVIDE HEAD-TO-HEAD COVERAGE. RECOMMENDED SETBACK DISTANCE OF ALL PROPOSED IRRIGATION HEADS IS 12" FROM BACK OF CURB AND EDGE OF PAVEMENT.
30. FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST NOZZLE ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS.
31. ALL POP-UP TYPE SPRINKLER HEADS INSTALLED IN TURF AREAS SHALL BE INSTALLED SO THE TOP OF THE SPRINKLER HEAD IS FLUSH WITH THE ADJACENT SIDEWALK, OR PAVING. ALL POP-UP HEADS AWAY FROM HARDSCAPE EDGES IN TURF SHALL BE 1" ABOVE THE FINISH GRADE TO PREVENT CONTACT WITH MOWERS.
32. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
33. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
34. UPON COMPLETION OF INSTALLATION OF IRRIGATION SYSTEM, IRRIGATION CONTRACTOR SHALL PROVIDE THE FOLLOWING:
    A. ACCURATE AND COMPLETE "AS BUILT" PLANS OF IRRIGATION SYSTEM INCLUDING 8-1/2" X 11" ZONE MAP TO BE PLACED INSIDE EACH CONTROLLER BOX.
    B. LOG ON ALL WATER WINDOWS, RUN SCHEDULE TIMES, AND OTHER CHANGES AND/OR MODIFICATIONS TO THE IRRIGATION SYSTEM SINCE INSTALLATION.
    C. ONE HOUR OF TRAINING TO OWNER ON IRRIGATION SYSTEM AND CONTROLLER OPERATION.
    D. THREE OF EACH TYPE OF HEAD AND EMITTER INSTALLED.
    E. ONE OF EACH TYPE OF VALVE INSTALLED.
    F. REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNERS REPRESENTATIVE.
35. PRIOR TO ACCEPTANCE OF IRRIGATION SYSTEM AT THE END OF THE MAINTENANCE PERIOD, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE FOLLOWING: CURRENT SCHEDULE RUN TIME AND WATER WINDOW LOG, ALONG WITH NOTING ANY OTHER PERTINENT INFORMATION.
36. UNLESS OTHERWISE SPECIFIED, THE IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ANYTHING DAMAGED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
37. CONTRACTOR SHALL INSTALL MAINLINES ±12" FROM PAVEMENT EDGE IN PLANTING AREAS. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS AS INDICATED ON THESE PLANS.
38. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND SPECIFICATIONS, THE PLAN SHALL TAKE PRECEDENCE.
39. THE IRRIGATION SYSTEM SHALL BE INSTALLED BY A QUALIFIED IRRIGATION CONTRACTOR.

CRITICAL ANAYLSIS

Water Source Information:	Use 1" dedicated irrigation tap into the domestic waterline downstream from the building meter.
FLOW AVAILABLE	
Point of Connection Size:	1"
Flow Available	18.2 GPM
PRESSURE AVAILABLE	
Static Pressure at POC:	80 PSI
Pressure Available:	80 PSI
DESIGN ANALYSIS	
Flow Velocity:	5 Ft.sec.
Maximum Station Flow:	3.72 GPM
Flow Available at POC:	18.2 GPM
Residual Flow Available:	14.48 GPM
Critical Station:	A1
Design Pressure:	30 PSI
Friction Loss:	0.07 PSI
Fittings Loss:	0.01 PSI
Elevation Loss:	0 PSI
Loss through Valve:	4.15 PSI
Pressure Req. at Critical Station:	34.2 PSI
Loss for Fittings:	0.08 PSI
Loss for Main Line:	0.85 PSI
Loss for POC to Valve Elevation:	0 PSI
Loss for Backflow:	11.8 PSI
Loss for Master Valve:	2.34 PSI
Critical Station Pressure at POC:	49.3 PSI
Pressure Available:	80 PSI

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM
A1	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	3.72
A2	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	0.95
A3	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	1.15
A4	HUNTER ICZ-101-25-LF	1"	AREA FOR DRIP EMITTERS	2.0

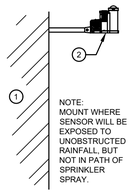


NOTE: VERIFY FINAL LOCATION WITH OWNER PRIOR TO INSTALLATION.

1. EXTERIOR WALL.
2. CONTROLLER PER SCHEDULE.
3. LOCKING VANDAL-RESISTANT ENCLOSURE. ATTACH TO WALL PER MANUFACTURER'S SPECIFICATIONS.
4. PVC CONDUIT FOR CONTROL WIRES.
5. LOCKABLE ELECTRIC DISCONNECT BOX PER APPLICABLE CODES.
6. 120 VOLT POWER WIRES IN CONDUIT. INSTALL PER APPLICABLE CODES.
7. CONTROL WIRES.
8. INSTALL PVC SWEEP 1' - 6" BELOW FINISH GRADE. WIRES SHALL SHARE MAINLINE TRENCHING WHEREVER POSSIBLE.
9. FINISH GRADE.
10. ELECTRICAL SOURCE PER APPLICABLE ELECTRICAL CODES.

NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL AN EIGHT FOOT LONG COPPER GROUNDING ROD INTO THE GROUND FOR THE CONTROLLER. PROVIDE PROPER INSTALLATION FOR CONTROLLER PER NEC REQUIREMENTS, MANUFACTURER RECOMMENDATIONS, AND LOCAL BUILDING CODES. ALL ELECTRICAL EQUIPMENT TO BE INSTALLED BY A CERTIFIED ELECTRICIAN.

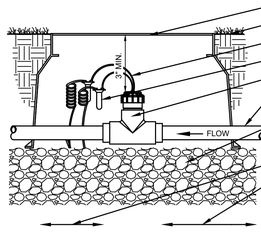
11 WALL MOUNT CONTROLLER
N.T.S.



NOTE:
MOUNT WHERE SENSOR WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY.

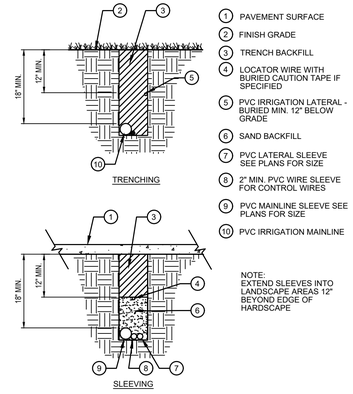
1. EXTERIOR WALL OR POLE
2. WEATHER SENSOR

12 WEATHER SENSOR
N.T.S.



1. CARSON VALVE BOX OR APPROVED EQUAL. FS BRAND ON LID.
2. FINISH GRADE
3. MIN. 18/2 WIRE TO CONTROLLER. MAX WIRE DISTANCE RUN OF 1,000'
4. DBRY-6 WIRE CONNECTORS (2)
5. FLOW SENSOR AS REFERENCED IN IRRIGATION LEGEND
6. PVC MAINLINE PIPE
7. 3" MINIMUM LAYER OF 3/4" MINUS WASHED GRAVEL
8. ALLOW MINIMUM DISTANCE OF 10X FLOW SENSOR SIZE FROM NEAREST UPSTREAM VALVE, FITTING, OR REDUCING COUPLER FROM EDGE OF FLOW SENSOR
9. ALLOW MINIMUM DISTANCE OF 5X FLOW SENSOR SIZE FROM NEAREST DOWNSTREAM VALVE, FITTING OR REDUCING COUPLER FROM EDGE OF FLOW SENSOR

13 FLOW SENSOR
N.T.S.



1. PAVEMENT SURFACE
2. FINISH GRADE
3. TRENCH BACKFILL
4. LOCATOR WIRE WITH BURIED CAUTION TAPE IF SPECIFIED
5. PVC IRRIGATION LATERAL - BURIED MIN. 12" BELOW GRADE
6. SAND BACKFILL
7. PVC LATERAL SLEEVE SEE PLANS FOR SIZE
8. 2" MIN. PVC WIRE SLEEVE FOR CONTROL WIRES
9. PVC MAINLINE SLEEVE SEE PLANS FOR SIZE
10. PVC IRRIGATION MAINLINE

NOTE:
EXTEND SLEEVES INTO LANDSCAPE AREAS 12" BEYOND EDGE OF HARDSCAPE

14 PIPE & SLEEVE INSTALLATION
N.T.S.

Galloway
5500 Greenwood Plaza Blvd., Suite 200
Greenwood Village, CO 80111
303.770.8884
GallowayUS.com

NOT FOR CONSTRUCTION

MURPHY OIL USA, INC
SITE IMPROVEMENT PLANS

9091 WESTVIEW ROAD
LONE TREE, COLORADO 80124

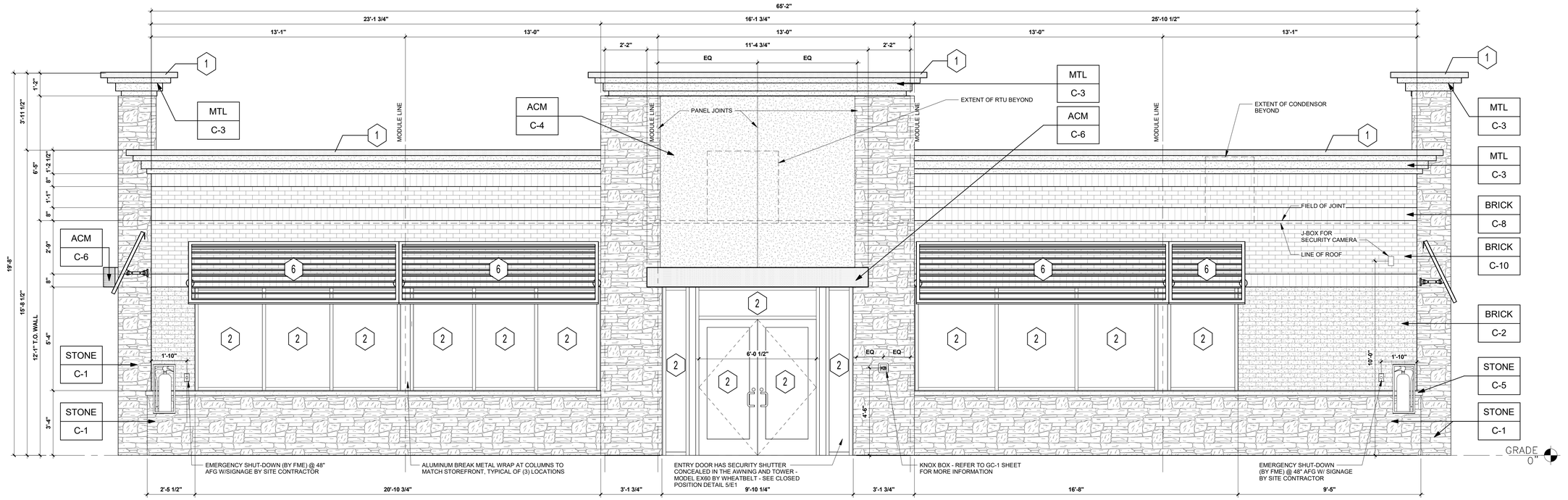
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-	03/12/2026	1ST SIP SUBMITTAL	JDP
1	04/23/2026	2ND SIP SUBMITTAL	JDP
2	06/23/2026	3RD SIP SUBMITTAL	JDP
3	08/04/2026	4TH SIP SUBMITTAL	JDP
4	09/11/2026	5TH SIP SUBMITTAL	JDP
5	11/05/2026	6TH SIP SUBMITTAL	JDP

Project No:	MOC148
Drawn By:	JAC
Checked By:	EDN
Date:	11/05/2026

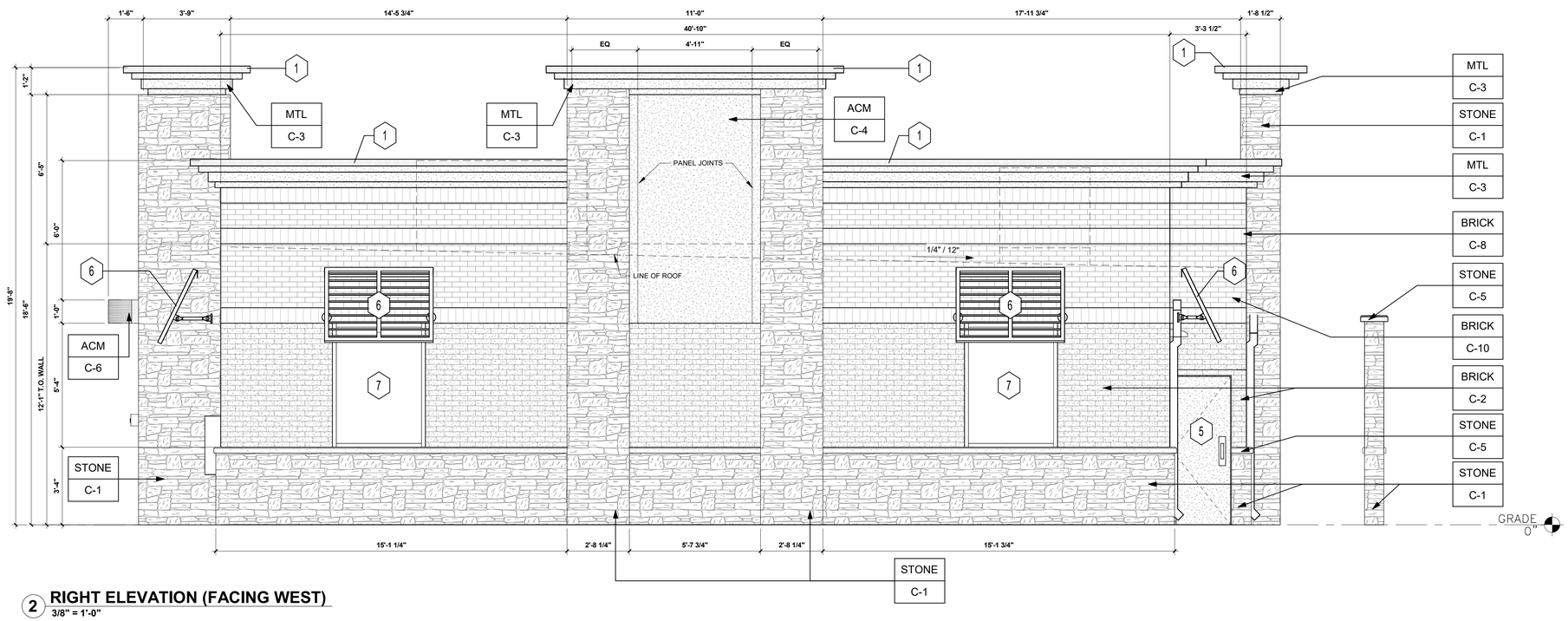
IRRIGATION NOTES & DETAILS

W:\Murphy oil usa\co. lone tree - moc00148 - county line & parker\SP\JAJ-COMO\IR148_CD-IRR.dwg - Sidebar Detailed - 11/5/2026

ALL SIGNAGES UNDER A SEPARATE PERMIT



1 FRONT ELEVATION (FACING NORTH)
3/8" = 1'-0"



2 RIGHT ELEVATION (FACING WEST)
3/8" = 1'-0"

NOTE:
ANY SIGNS DEPICTED IN THIS PLAN ARE CONCEPTUAL ONLY, HAVE NOT BEEN APPROVED BY THE CITY, AND ARE NOT TO BE UTILIZED FOR THE PURPOSES OF DEVELOPING BUILDING PLANS. ALL FUTURE SIGNS ARE SUBJECT TO A SEPARATE SIGN PERMIT APPROVAL PROCESS IN ACCORDANCE WITH CHAPTER 16, ARTICLE XXIX OF LONE TREE CITY CODE.

KEYED NOTES:

1	LIGHT FIXTURE - LSI ARCHER	C-6
2	BLACK ANODIZED ALUMINUM STOREFRONT SYSTEM KAWNEER, YKK OR EQUAL	C-7
3	EXTERIOR LIGHTING, REFER TO LIGHTING PLAN	SHEET EL2
4	3" x 4" PAINTED METAL DOWNSPOUTS	C-9
5	DOORS (EXTERIOR SIDE) AND DOOR FRAMES PAINTED	C-9
6	METAL AWNING BY B&C AWNING INC. OR EQUAL	C-3
7	SPANDREL GLASS	C-7

EXTERIOR FINISHES:

ACM	ACM (3MM THICKNESS)	BY FMS
BRICK	THIN BRICK	BY FMS
MTL	20 GA. SHEET METAL (UNLESS NOTED OTHERWISE)	BY FMS
STONE	STONE SILL	BY FMS

EXTERIOR PAINT/COLORS:

C-1	1/2" THIN STONE VENEER - 'ALDERWOOD STACKED STONE' BY ELDORADO STONE	BY FMS
C-2	1/2" THIN BRICK VENEER - IVORY BLEND VELOUR BY ENDICOTT (WIRE CUT FINISH) WITH ENDURA MAX PREBLENDED GREY COLOR GROUT	BY FMS
C-3	'PEPPERCORN' SW #7674	BY FMS
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C-5	STONE SILL - CONCRETE GRAY CAP	BY FMS
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C-7	CLEAR ANODIZED ALUMINUM STOREFRONT	BY FMS
C-8	THIN BRICK VENEER SOLDIER COURSE - 'LIGHT SANDSTONE VELOUR' BY ENDICOTT	BY FMS
C-9	REYNOBOND 'DORMER BROWN' SW #7521	BY FMS
C-10	THIN BRICK VENEER - 'LIGHT SANDSTONE VELOUR' BY ENDICOTT	BY FMS

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DATE	REV.	DESCRIPTION
02/20/2026		ENTITLEMENT SET
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06/18/2026		ENTITLEMENT SET
07/30/2026		ENTITLEMENT SET
09/25/2026		ENTITLEMENT SET
11/02/2026		ENTITLEMENT SET

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
SCOTT LOIKITS

PROJECT MANAGER
JAVIER COHEN

QUALITY CONTROL
CHRIS CERBO

DRAWN BY
JILL DE LA LUZ

PROJECT NAME
MURPHY USA

MURPHY OIL CONVENIENCE STORE

E. COUNTY LINE ROAD & PARKLAND ROAD, LONE TREE, 80124

FREY-MOSS STRUCTURE
1801 Rockdale Industrial Blvd.
Conyers, Georgia 30012
Voice: (800) 366-6385
Fax: (770) 483-6037

FMS JOB NUMBER
G25MUXXXXX

FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20251119.5

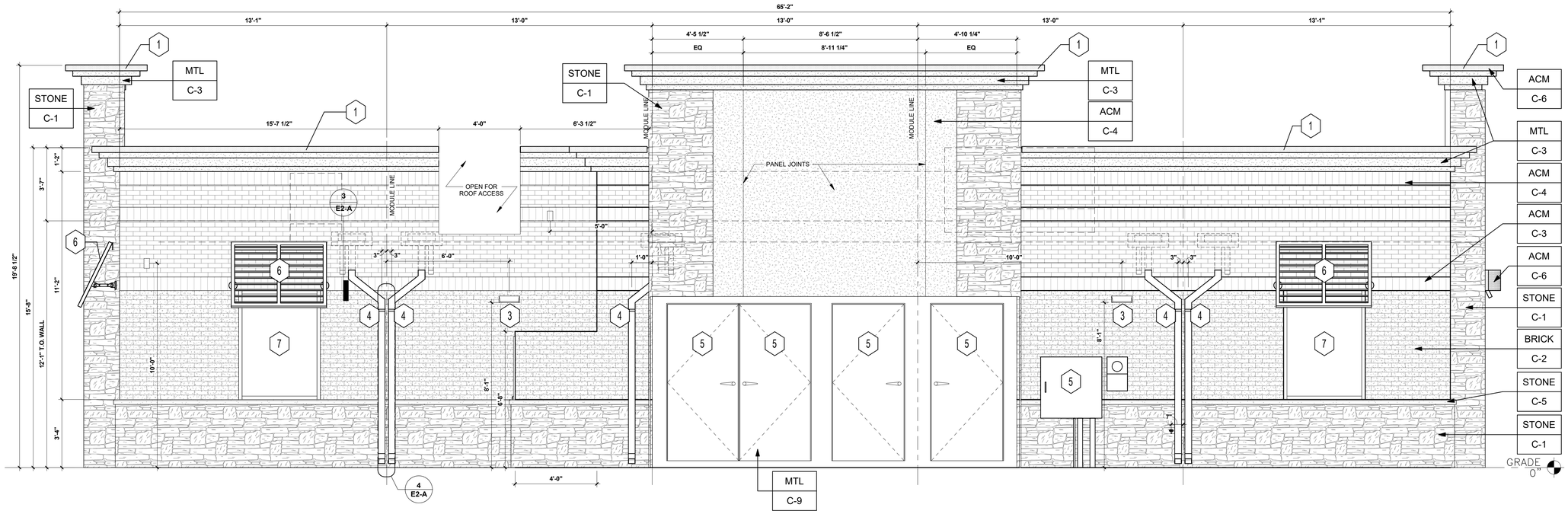
SHEET TITLE
ARCHITECTURAL ELEVATIONS (BUILDING)

SHEET NUMBER
A-1

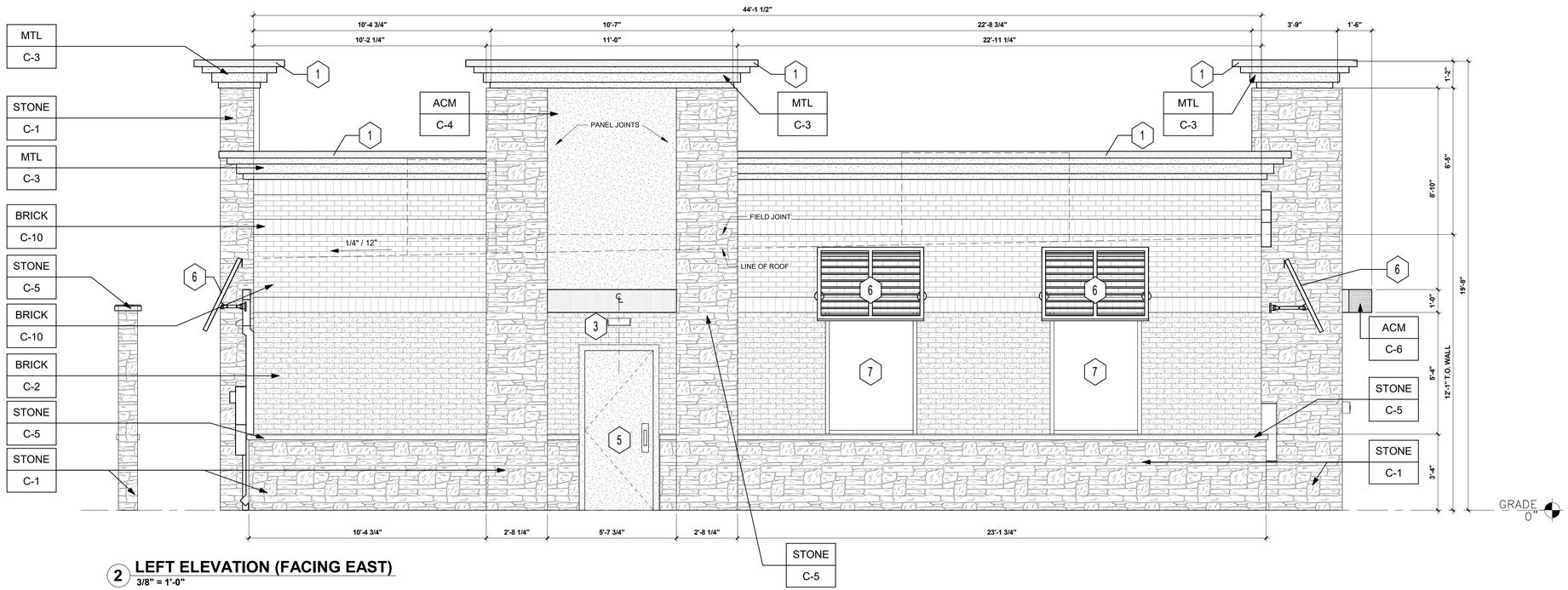
PROTO V1.1 01/29/2026
2800 SF M2 DESIGN BLDG.

Autodesk Docs://Murphy_IN - #0434 (2025)/20251119.5_Lone Tree (CO_E County Line Road & Parkland Road_2800 SF Building with Side Entry).rvt

ALL SIGNAGES UNDER A SEPARATE PERMIT



1 REAR ELEVATION (FACING SOUTH)
3/8" = 1'-0"



2 LEFT ELEVATION (FACING EAST)
3/8" = 1'-0"

KEYED NOTES:

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SHEET TITLE

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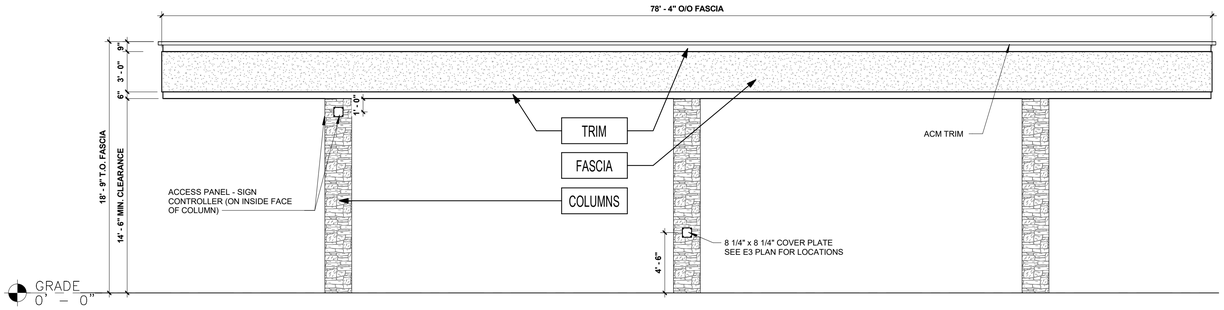
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A-2

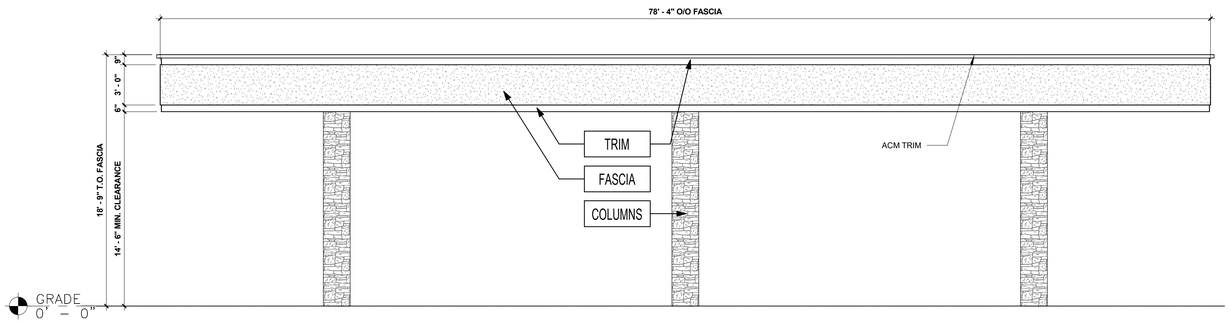
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Autodesk Docs://Murphy Oil - 20251119.0_Lone Tree (E.C. County Line Road & Parkland Road)_2800 Building with Side Entry_R21_MEP.rvt

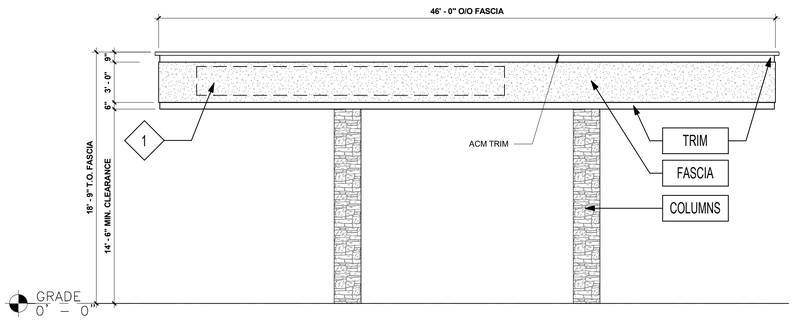
ALL SIGNAGES UNDER A SEPARATE PERMIT



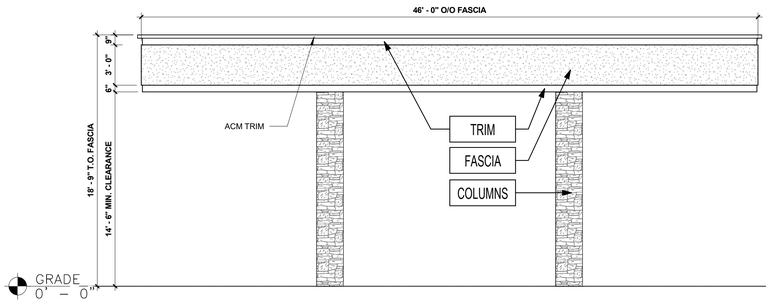
1 LEFT ELEVATION (EAST)
3/16" = 1'-0"



2 RIGHT ELEVATION (WEST)
3/16" = 1'-0"



3 FRONT ELEVATION (NORTH)
3/16" = 1'-0"



4 REAR ELEVATION (SOUTH)
3/16" = 1'-0"

KEYED NOTES:

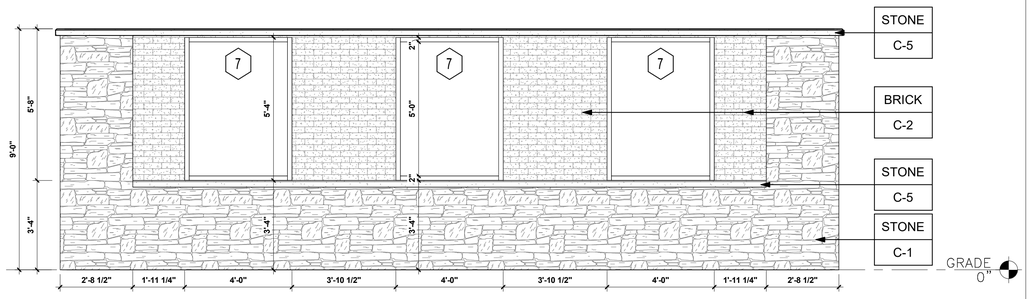
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7	SPANDREL GLASS	C-7

EXTERIOR FINISHES:

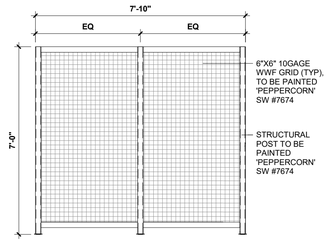
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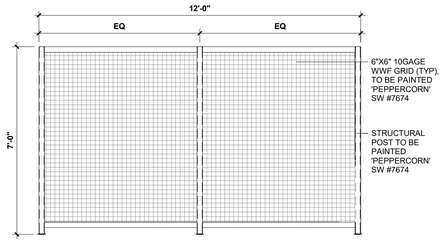
C-1	1/2" THIN STONE VENEER - 'ALDERWOOD STACKED STONE' BY ELDORADO STONE	BY FMS
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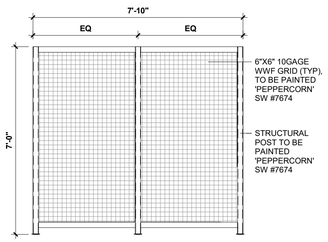
5 SCREEN WALL ELEVATION (FACING SOUTH)
3/8" = 1'-0"



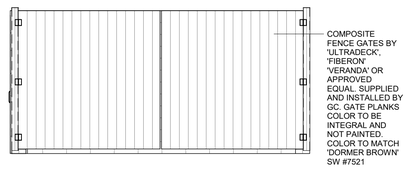
6 TRANSFORMER SCREEN WALL - SOUTH ELEV
3/8" = 1'-0"



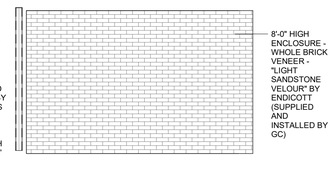
7 TRANSFORMER SCREEN WALL - EAST ELEV
3/8" = 1'-0"



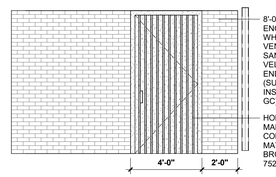
8 TRANSFORMER SCREEN WALL - NORTH ELEV
3/8" = 1'-0"



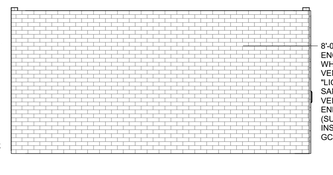
9 DUMPSTER ENCLOSER -FRONT ELEV
1/4" = 1'-0"



10 DUMPSTER ENC. -RIGHT ELEV
1/4" = 1'-0"



11 DUMPSTER ENC. -LEFT ELEV
1/4" = 1'-0"



12 DUMPSTER ENCLOSER -REAR ELEV
1/4" = 1'-0"

KEYED NOTES	
1	FUTURE SIGN LOCATION - ALL SIGNS UNDER A SEPARATE PERMIT
2	OMITTED

FINISH SCHEDULE

FASCIA	ACM (ALUMINUM COMPOSITE MATERIAL)	REYNOBOND 'SHELL MEDIUM CRINKLE' BY ARCONIC	FURNISHED & INSTALLED BY FABRICATOR
TRIM	20 GA. SHEET METAL	REYNOBOND 'CADET GRAY' BY ARCONIC	FURNISHED & INSTALLED BY FABRICATOR
COLUMNS	SEE STRUCTURAL DRAWINGS	1/2" THIN STONE VENEER - 'ALDERWOOD STACKED STONE' BY ELDORADO STONE	FURNISHED & INSTALLED BY FABRICATOR

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ISSUE RECORD

DATE	REV.	DESCRIPTION
02/20/2026		ENTITLEMENT SET
03/02/2026		ENTITLEMENT SET
06/01/2026		ENTITLEMENT SET
06/18/2026		ENTITLEMENT SET
07/30/2026		ENTITLEMENT SET
09/25/2026		ENTITLEMENT SET
11/02/2026		ENTITLEMENT SET

PROFESSIONAL SEAL

PROFESSIONAL IN CHARGE
SCOTT LOIKITS

PROJECT MANAGER
JAVIER COHEN

QUALITY CONTROL
CHRIS CERBO

DRAWN BY
JILL DE LA LUZ

PROJECT NAME

MURPHY USA

MURPHY OIL CONVENIENCE STORE

E. COUNTY LINE ROAD & PARKLAND ROAD, LONE TREE, 80124

FREY-MOSS STRUCTURE
1801 Rockdale Industrial Blvd.
Conyers, Georgia 30012
Voice: (800) 366-6385
Fax: (770) 483-6037

FMS JOB NUMBER
G25MUXXXXX

FMS MODEL NUMBER
XXXXXX

PROJECT NUMBER
20251119.5

SHEET TITLE

ARCHITECTURAL ELEVATIONS (BUILDING)

SHEET NUMBER

A-3

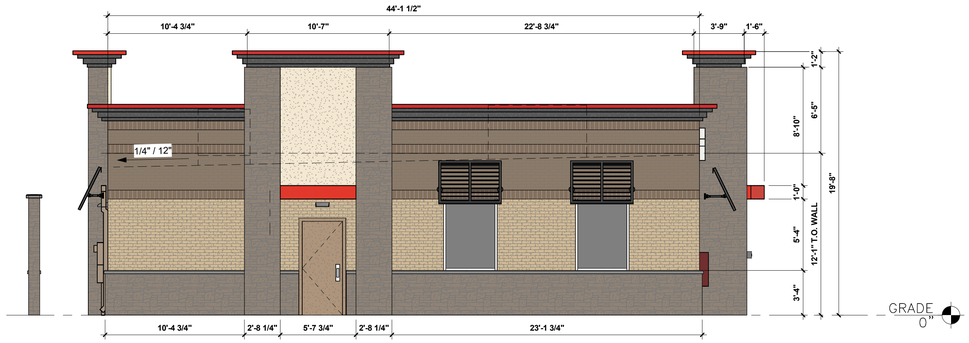
PROTO V1.1 01/29/2026
2800 SF M2 DESIGN BLDG.

Autodesk Docs://Murphy Oil - #25142/25251119 Lone Tree-CLE County Line Road & Parkland Road_M2 Building with Site Area_R21_JdL.rvt

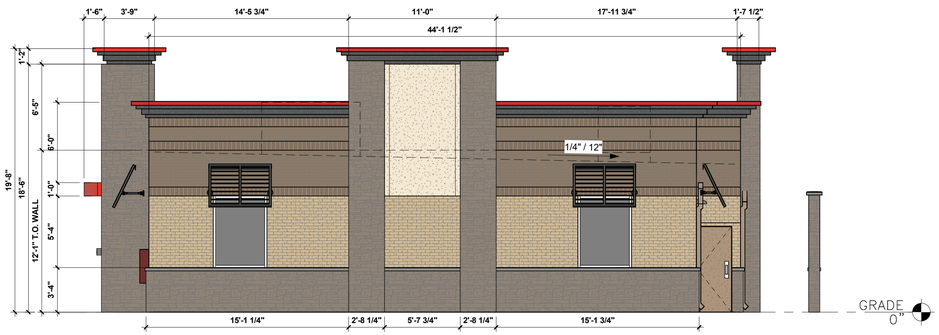
ALL SIGNAGES UNDER A SEPARATE PERMIT



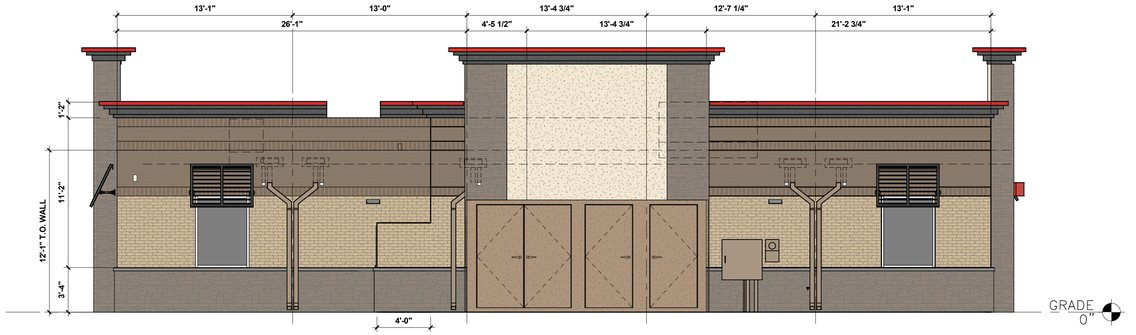
1 FRONT ELEVATION (FACING NORTH)
3/16" = 1'-0"



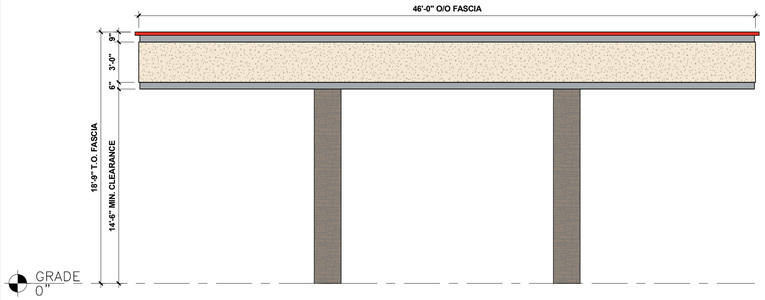
2 LEFT ELEVATION (FACING EAST)
3/16" = 1'-0"



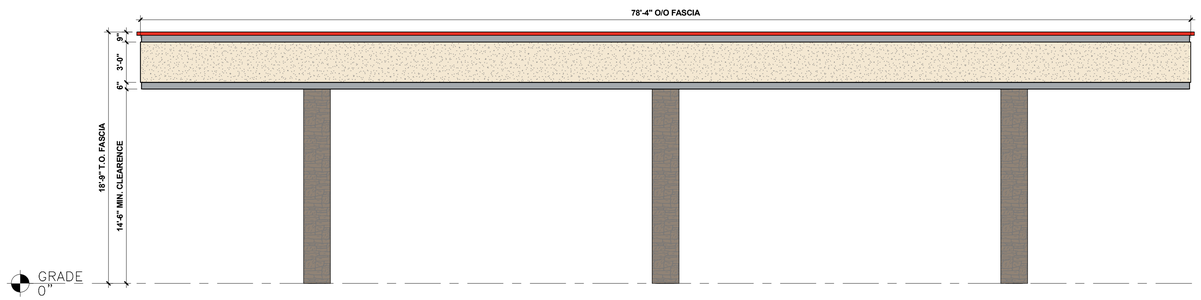
3 RIGHT ELEVATION (FACING WEST)
3/16" = 1'-0"



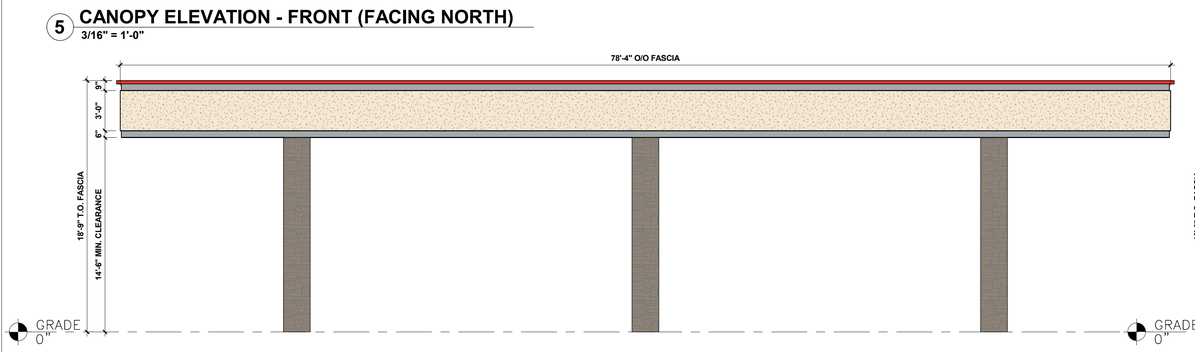
4 REAR ELEVATION (FACING SOUTH)
3/16" = 1'-0"



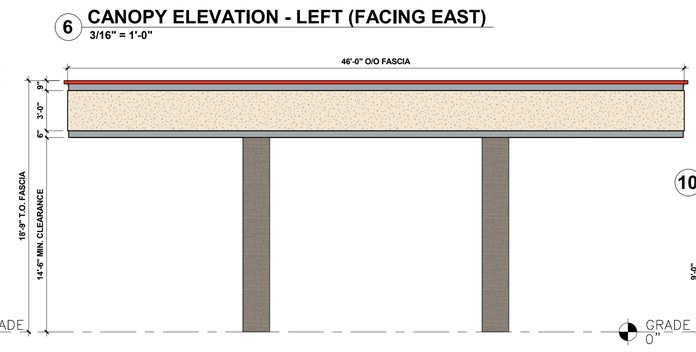
5 CANOPY ELEVATION - FRONT (FACING NORTH)
3/16" = 1'-0"



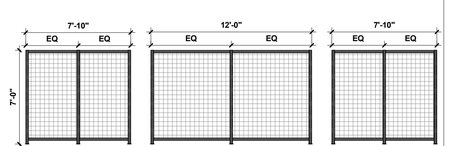
6 CANOPY ELEVATION - LEFT (FACING EAST)
3/16" = 1'-0"



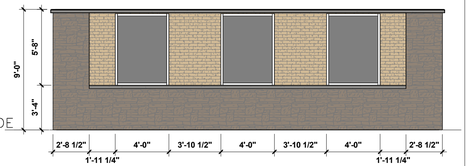
7 CANOPY ELEVATION - RIGHT (FACING WEST)
3/16" = 1'-0"



8 CANOPY ELEVATION - REAR (FACING SOUTH)
3/16" = 1'-0"



10 TRANSFORMER SCREEN WALL ELEVATIONS
3/16" = 1'-0"



9 SCREEN WALL ELEVATION (FACING SOUTH)
3/16" = 1'-0"

www.greenbergfarrow.com
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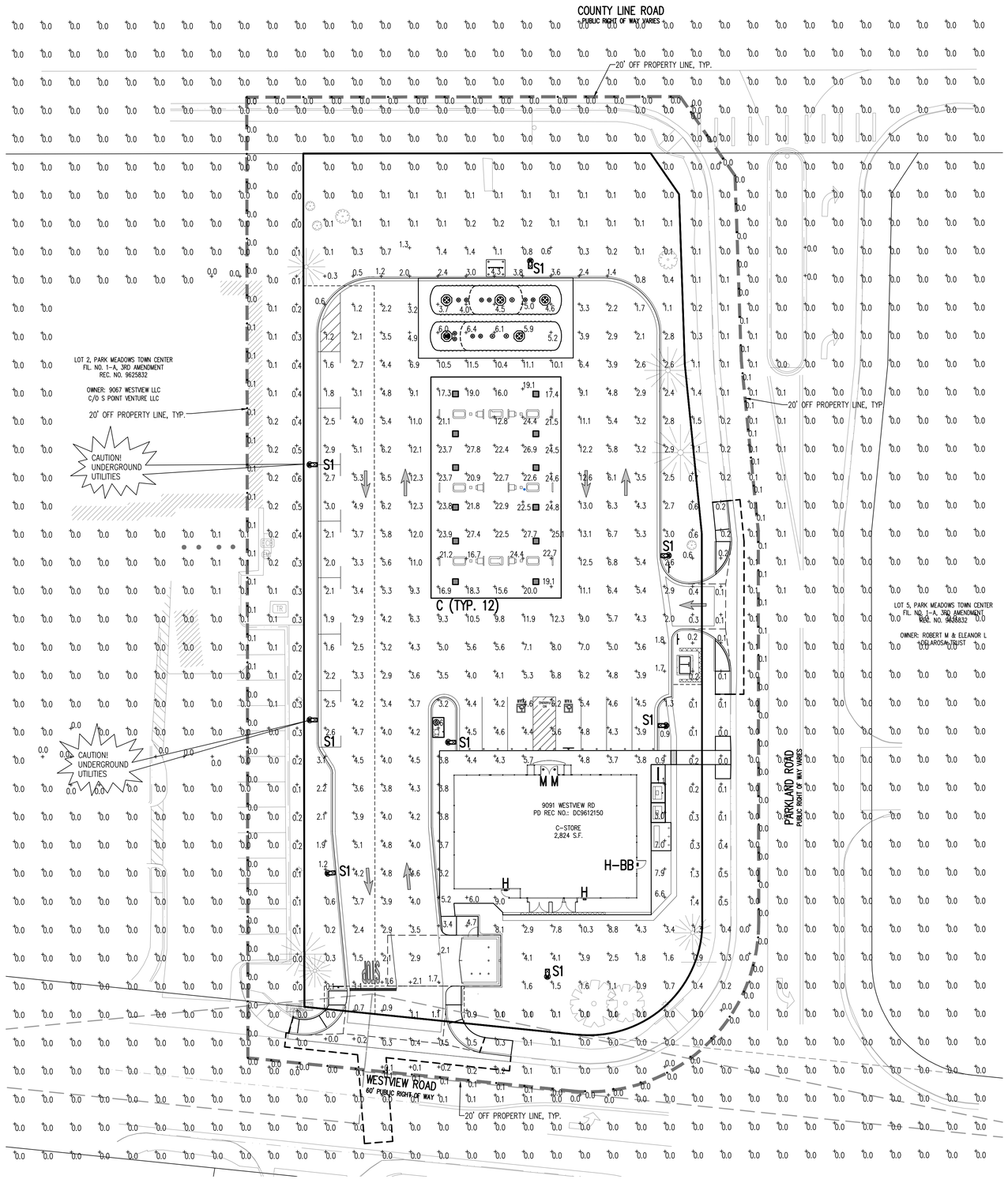
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20251119.5

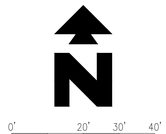
SHEET TITLE
ARCHITECTURAL COLORED ELEVATIONS (BUILDING)

SHEET NUMBER
A-3.1

PROTO V1.1 01/29/2026
2800 SF M2 DESIGN BLDG.

Autodesk Docs://Murphy 25-... 20251119.0_Lone Tree (CO)_County Line Road & Parkland Road_MPO Building with Site Empty_R24.1_M2_ARCH_BRIAN.rvt





LUMINAIRE SCHEDULE

MOUNTING CONFIG.	SYMBOL	QTY	ASSEMBLY HEIGHT	POLE HEIGHT	LUMENS	TOTAL WATTS	MODEL NUMBER	DESCRIPTION
S1		8	24'-0"	22'-0"	18904	135	SLM-18L-SIL-FT-UNV-40-70-BRZ-IL	LSI LIGHTING, SLICE MEDIUM LED SERIES AREA LIGHT, 18,000 LUMENS PACKAGE, 4000K 70 CRI, SINGLE HEAD FLAT LENS FIXTURE WITH INTEGRAL LOUVER, FORWARD THROW
C		12	15'-0"	N/A	10725	73	CRUS-SC-LED-LW-40-UE-WHT	LSI LIGHTING, LEGACY SERIES, LOW WATT DRIVER, FLAT LENS CANOPY FIXTURE, 4000K
H		2	8'-3"	N/A	4124	30	XWM 3 LED O4L 40 UE BRZ	LSI LIGHTING, MIRADA (YWM) WALL MOUNT LUMINAIRE, 4000K CCT, 4000 LUMEN PACKAGE,
H-BB		1					XWM 3 LED O4L 40 UE BRZ CWBB	BRONZE COLOR, H-BB WITH BATTERY BACK-UP
M		2	8'-8"	N/A	2333	22	LCD8LED25LUNVDIM1.35WF TR6RWWHAZ EM	LSI LIGHTING, LCD6 DOWN LIGHT LUMINAIRE, 3500k CCT, 2500 LUMENS, WIDE FLOOD HAZE SEMI-DIFFUSED WALL WASH REFLECTOR, WHITE OR EQUIVALENT

NOTES: ALL AREA SITE LIGHT FIXTURES AND POLES TO BE MOUNTED ON CONCRETE BASE PER DETAIL, THIS SHEET
ALL ANCHOR BOLTS TO BE ORIENTED IN THE SAME DIRECTION (SQUARE) AT INSTALLATION PER MANUFACTURER'S SPECIFICATIONS.
ALL PROPOSED FIXTURES ARE FULL CUT-OFF FIXTURES

POLE SCHEDULE

MOUNTING CONFIG.	SYMBOL	QTY	POLE HEIGHT	MODEL NUMBER	DESCRIPTION
S1		8	22'-0"	4SQB3-S11G-22-S-BRZ-4BC	LSI LIGHTING, STEEL SQUARE POLE, BOLT-ON ARM MOUNT, BRONZE

NOTES: ALL AREA SITE LIGHT FIXTURES AND POLES TO BE MOUNTED ON CONCRETE BASE PER DETAIL, THIS SHEET
POLES RATED TO 130 MPH WIND VELOCITY

NOTES:

PLAN WAS BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS, LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.

THE CALCULATED PHOTOMETRIC LEVELS MAY OR MAY NOT MEET CERTAIN STANDARDS OR RECOMMENDED PRACTICES OF IESNA.

THE PHOTOMETRIC PLAN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY (IES) APPROVED METHODS. LABORATORY TESTS ARE MADE UNDER OPTIMUM CONDITION, WITH LAMP OUTPUT AT RATED VALUE, AND IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS.

ACTUAL ILLUMINANCE LEVELS MAY DIFFER DUE TO VARIABLE FIELD CONDITIONS SUCH AS (BUT NOT LIMITED TO); VARIANCE IN LAMP LUMEN OUTPUT; LAMP TILT FACTOR; BALLAST WATTAGE OUTPUT; LINE VOLTAGE AT BALLAST; REFLECTOR SPECULARITY; LAMP LUMEN DEPRECIATION; AND LUMINAIRE DIRT DEPRECIATION.

THE 24'-0" MOUNTING HEIGHT IS THE ACTUAL ASSEMBLY (POLE, BASE, AND FIXTURE) AND MAY DIFFER FROM THE FROM THE LUMINAIRE'S LUMINOUS APERTURE.

THIS PLAN IS FOR RELATIVE LAYOUT AND SCOPE OF WORK PURPOSES ONLY. REFER TO SITE PLAN PREPARED BY LOCAL CONSULTANT FOR RELATIONSHIP OF THESE LUMINAIRES AND THEIR LOCATIONS TO EXISTING STRUCTURES AND REFERENCE.

ILLUMINATION TO BE EXTINGUISHED BETWEEN 11 P.M. AND SUNRISE OR WHEN THE BUSINESS IS CLOSED, WHICHEVER IS LATER.

CONTRACTOR TO ENSURE THE LIGHT POLE AND HANDICAP PARKING SIGN ARE AT LEAST 2' FROM THE BACK OF CURB TO PREVENT VEHICLES FROM STRIKING THE LIGHT POLE OR HANDICAP PARKING SIGN. PROPOSED LIGHT POLE BASES SHOWN AT A MINIMUM OF 2'-6" FROM BACK OF CURB TO CENTER OF POLE/BASE. ENGINEER TO VERIFY PROPOSED LOCATIONS FOR ANY CONFLICTS OR MISPLACEMENTS. REPORT TO LIGHTING DESIGNER ANY DISCREPANCIES OR CONFLICTS

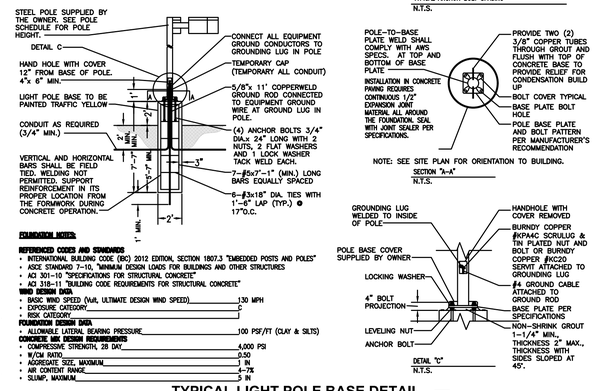
CALCULATION SUMMARY

LABEL	UNITS	AVG	MAX	MIN	UNIFORMITY AVG/MIN
CANOPY	FC	21.06	27.6	12.6	1.70:1
CANOPY APPROACH	FC	9.62	13.0	5.0	1.72:1
PARKING-FRONT	FC	4.55	6.2	3.2	1.42:1
PARKING-WEST	FC	2.25	3.0	1.6	1.41:1
OPEN SPACE-SOUTHEAST	FC	2.42	4.1	1.1	2.20:1
TANK FILL AREA	FC	5.90	6.4	2.5	2.36:1
TRASH ENCLOSURE AREA	FC	3.56	8.1	1.7	2.09:1
LABEL	UNITS	AVG	MAX	MIN	
20' OFF PROPERTY LINE-NORTH	FC	0.00	0.0	0.0	
20' OFF PROPERTY LINE-EAST	FC	0.04	0.1	0.0	
20' OFF PROPERTY LINE-SOUTH	FC	0.06	0.1	0.0	
20' OFF PROPERTY LINE-WEST	FC	0.04	0.1	0.0	

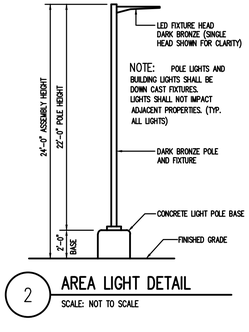
SCHEDULE:

0.1 — LOCATION OF FOOT-CANDLE MEASUREMENT AT GRADE
0.1 — FOOT-CANDLE READING AT GRADE

0.1 — LOCATION OF FOOT-CANDLE MEASUREMENT AT GRADE AT 20' OFF PROPERTY LINE
0.1 — FOOT-CANDLE READING AT GRADE



TYPICAL LIGHT POLE BASE DETAIL 1.3A
NOT TO SCALE



2 **AREA LIGHT DETAIL**
SCALE: NOT TO SCALE

CITY OF LONE TREE

DATE

THE CONSTRUCTION PLANS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR SITE IMPROVEMENTS, STORM SEWER, GRADING AND EROSION CONTROL IMPROVEMENTS ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

SHEET NO. L-1.0

ENGINEERING STAMP

SUBMITTAL	DATE	PRN	MOC148	PM	JDP	DES	SE	DRW	DMH
CD 4TH	11/05/26								

PHOTOMETRIC SITE PLAN
MURPHY USA (NTI)
9091 WESTVIEW RD
LONE TREE COLORADO

Galloway
5500 Greenwood Plaza Blvd, Suite 200
Greenwood Village, CO 80111
303.770.8884 • GallowayUS.com

MURPHY OIL USA, INC.
MURPHY USA
200 PEACH STREET
EL DORADO, AR 71730

Catalog #: _____ Project: _____

Prepared By: _____ Date: _____ Type: C

Scottsdale® Legacy (CRUS)

LED Canopy Luminare



IP66 IK08

OVERVIEW	
Lumen Package	5,000 - 22,000
Wattage Range	38 - 152
Efficacy Range (LPW)	114 -156
Weight lbs(kg)	23 (10.4)

QUICK LINKS

Ordering Guide | Performance | Photometrics | Dimensions

FEATURES & SPECIFICATIONS

Construction

- Features a ultra-slim 11/16" profile die-cast housing, with flat clear or diffused tempered glass lens. Unit is water-resistant, sealed and IP66 rated. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.
- Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.
- Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

Optical System

- Features an array of select, mid-power, high brightness, high efficiency LED; 3000K, 4000K, 5000K color temperature, 80 CRI (nominal).
- Choice of Symmetric or Asymmetric distribution. Asymmetric provides a wider distribution pattern. Optional symmetric with diffused lens also available.
- Forward Throw distribution provides an industry leading unique distribution pattern that illuminates the area under the gas canopy and beyond. The forward through optic directs the light to the forecourt from the gas canopy eliminating the need for supplemental floodlights and extensive perimeter lighting.
- Diffuse lens available as an option to soften brightness of the luminaire.
- Six Lumen Packages: 5,000, 9,000, 10,000, 13,000, 18,000 and 22,000 Lumens.

Electrical

- High performance factory programmable driver features over-voltage, under voltage, short-circuit and over temperature protection with integral 6kV surge protection that meets IEEE C62.41.2 and ANSI C82.77-5 Location Category C Low standards. Additional field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/ IEEE C62.41.2). Custom lumen and wattage packages available.
- Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.
- Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and acts as the primary heatsink ensuring cool operation of internal components for longer life. Seals to optical housing via one-piece molded silicone gasket.
- Universal voltage power supply, 120-277 VAC, 50/60 HZ and 347-480 VAC, 50/60 HZ input.
- -40°C to 55°C (-40°F to 131°F) ambient operating temperature. (Varies based on lumen package and mounting style see performance data for specifics.)
- Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location (see performance data for specifics.)

Hazardous Location

- Designed for lighter than air fuel applications. Product is suitable for Class 1 Divisions 2 only when properly installed per LSI installation instructions. See lsicorp.com for specific guidance. Not available on SLW.

Installation

- One-person installation.
- Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit.
- Retro panels are available for existing Encores as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.

Warranty

- LSI LED fixtures carry a 5-year warranty (contact your LSI representative for extended warranty options.)

Listings

- UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. 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/QPL to confirm which versions are qualified.
- Meets Buy American Act requirements.
- IDA compliant with 3000K or lower color temperature.

Type: C

Scottsdale® Legacy (CRUS) LED Canopy Luminaire

ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: **CRUS SC LED SS 50 UE WHT**

Prefix	Distribution	Light Source	Driver	Color Temperature	Input Voltage	Finish	Options[4]
CRUS - LED Canopy Luminaire	**SC** - Symmetric **AC*** - Asymmetric **SCFT*** - Combination Standard Symmetric and Forward Throw	**LED**	**SLW** - 5,000 Lumens **VLW** - 9,000 Lumens **LW** - 11,000 Lumens **XL** - 13,000 Lumens **HO** - 15,000 Lumens **VHO** - 22,000 Lumens[2] **Custom Lumen Packages[2]** **VHO** - 22,000 Lumens	**50** - 5000K **40** - 4000K[3] **30** - 3000K	**UE** - Universal Voltage (120 - 277V) **HV** - High Voltage (347 - 480V)	**WHT** - White **BRZ** - Bronze **BLK** - Black	**HL*** - Hazardous Location **DFL** - Diffuse Lens

Accessory Ordering Information (Accessories are field installed)

Description	Order Number
Retrofit Panels - EC / ECTA / 52T to CRUS, for 16" Deck Panel	525946
Retrofit Panels - ECTA / 52T to CRUS, for 12" Deck Panel	530281
Retrofit 2x2 Cover Panel Blank (no holes)	357282

Description	Order Number
Retrofit RC Cover Panel Blank (no holes)	354152
Kit - Hole Plugs and Silicone (enough for 25 retrofits)[1]	532540

*Consists of (25) 3/8" hole plugs, (100) 5/16" hole plugs and (1) tube of RTV

1 AC distribution utilizes a reflector which alters the look from a standard SC distribution.
2 IT distribution option only available with VHO 22,000 lumen package.
3 Custom lumen and wattage packages available consult factory Values are within industry standard tolerances but not DLC listed.
4 Not available with SCT.
5 Not available on SLW.

Catalog #: _____ Project: _____

Prepared By: _____ Date: _____ Type: S1

Slice Medium (SLM)

Outdoor LED Area Light



IP66 IK08

OVERVIEW	
Lumen Package	9,000 - 48,000
Wattage Range	63 - 401
Efficacy Range (LPW)	112 - 156
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. Cast aluminum wiring access door located underneath.
- 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: 37 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 IP66 rated seal.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 5W, FT, FTA and AM.
- 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.
- Integral louver (IL) and house-side shield (IH) options available for improved backlight control without sacrificing street side performance. See page 3 for more details.

Electrical

- High-performance driver features overvoltage, under-voltage, short-circuit and over temperature protection.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance on Page 5)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C.
- 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. Driver and key electronic components can easily be accessed.

Controls

- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via iOS or Android configuration app.
- LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7.

Installation

- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional B3 drill pattern. (See drawing on page 9)

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to https://www.lsiindustries.com/resources/terms-and-warranty.aspx for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet locations.
- IP66 rated Luminaire per IEC 60598-1.
- 3G rated for ANSI C136.31 high vibration applicationsapplicationsare qualified.
- IK08 rated luminiare 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.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)

Type: S1

Slice Medium Outdoor LED Area Light

ORDERING GUIDE

Back to Quick Links

TYPICAL ORDER EXAMPLE: **SLM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

Luminaire Prefix	Light Source	Lumen Package	Light Output	Distribution	Orientation[1]	Voltage	Driver
SLM - Slice Medium	**LED**	**9L** - 9,000 lms **12L** - 12,000 lms **15L** - 15,000 lms **24L** - 24,000 lms **30L** - 30,000 lms **36L** - 36,000 lms **42L** - 42,000 lms **48L** - 48,000 lms **Custom Lumen Packages[1]**	**SIL** - Silicone	**2** - Type 2 **3** - Type 3 **5W** - Type 5 Wide **FT** - Forward Throw **FTA** - Forward Throw Automotive **AM** - Automotive Merchandise	**(Blank)** - standard (no notation) **L** - Optics rotated left 90° **R** - Optics rotated right 90°	**UNV** - Universal Voltage (120-277V) **HV** - High Voltage (347-480V)	**DIM** - 0-10V Dimming (0-10%)

Color Temp	Color Rendering	Controls (Choose One)	Finish	Options
50 - 5,000 CCT **40** - 4,000 CCT **30** - 3,000 CCT **AMB** - Phosphor Converted Amber[2]	**70CRI** - 70 CRI	**(Blank)** - None **Wireless Controls System:** **ALSC** - AirLink Synapse Control System **ALSCS02** - AirLink Synapse Control System with 12-20' Motion Sensor **ALSCS04** - AirLink Synapse Control System with 20-40' 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) **Stand-Alone Controls:** **CXT** - 0-10V Dimming leads extended to housing exterior **CRTP** - 7 Pin Control Receptacle ANSI C136.41[3] **IMSBT1** - Integral Bluetooth™ Motion and Photocell Sensor (8-24' Mh)[4] **IMSBT2** - Integral Bluetooth™ Motion and Photocell Sensor (25-40' Mh)[4] **Button Type Photocells** **PC120** - 120V **PC208-277** - 208 -277V **PC347** - 347V	**BLK** - Black **BRZ** - Dark Bronze **GMG** - Gun Metal Gray **GPT** - Graphite **MSV** - Metallic Silver **PLP** - Platinum Plus **SVG** - Satin Verde Green **WHT** - White	**(Blank)** - None **IH** - Integral Housesite Shield[5] **IL** - Integral Louver (Sharp Spill Light Cutoff)[6]

Accessories Ordering Information[6]

Controls Accessories

Description	Order Number
Twist Lock Photocell (120V) for use with CR7P	122514
Twist Lock Photocell (208-277) for use with CR7P	122515
Twist Lock Photocell (347V) for use with CR7P	122516
Twist Lock Photocell (480V) for use with CR7P	122530
AirLink 5 Pin Twist Lock Controller[4]	614109
AirLink 7 Pin Twist Lock Controller[4]	661410
Pole-Mounted Occupancy Sensor (24V)	662084CLR[4]
Shorting Cap for use with CR7P	14632

Fusing Options[10]

Description	Order Number
Single Fusing (120V)	See Fusing Accessory Guide
Single Fusing (277V)	
Double Fusing (208V, 240V)	
Double Fusing (480V)	
Double Fusing (347V)	

Shielding Options

Mirada Small	See Shielding Guide
Mirada Medium	
Mirada Large	
Zone Medium	
Zone Large	
Slice Medium	

Mounting Accessories[9]

Description	Order Number
Round Pole Adapter (2" Round/Tapered Poles)	438213CLR
Round Pole Adapter (4" Round Poles)	319961CLR
Round Pole Adapter (5" Round Poles)	319960CLR
Universal Mounting Bracket	684614CLR
Adjustable Slip Fitter (2" - 2 3/8" Tenon)	689138CLR
Quick Mount Pole Bracket (Square Pole)	687073CLR
Quick Mount Pole Bracket (4-5" Round Pole)	689903CLR
15 TAB Quick Mount Pole Bracket (Square Pole)	689902CLR
15 TAB Quick Mount Pole Bracket (4-5" Round Pole)	689901CLR
Wall Mount Bracket	382132CLR
Wood Pole Bracket (8" Minimum Pole Diameter)	715219CLR

Shielding & Miscellaneous Accessories

Description	Order Number
Integral LouverShield	684612
Internal Housesite Shield	743414
10' Linear Bird Spike Kit (6' Recommended per Luminaire)	715632

FOOTNOTES:

1. Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
2. Consult factory for availability.
3. Consult factory for availability.
4. IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
5. Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
6. Accessories are shipped separately and field installed.
7. Fusing must be located in hand hole of pole.
8. "CLR" denotes finish. See Finish options.
9. Mounting accessories are for use with round poles only. See Fusing Accessory Guide for compatability.
10. Fusing must be located in hand hole of pole. See Fusing Accessory Guide for compatability.
11. Only available in 9L and 12L Lumen Packages. Consult factory for lead time and availability.

Catalog #: _____ Project: _____

Prepared By: _____ Date: _____ Type: H & H-BB

Mirada Medium Wall Sconce (XWM)

Outdoor Wall Sconce



IK08

OVERVIEW	
Lumen Package (lm)	3,000 - 21,000
Wattage Range (W)	23 - 175
Efficacy Range (LPW)	125 - 158
Weight lbs (kg)	27 (12.2)

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.
- Max shipping weight: 30lbs in carton

Optical System

- State-of-the-Art one piece silicone optic provides industry leading optical control while also acting as an integrated gasket reducing system complexity and improving fixture reliability.
- 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 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 luminaires carry a 5-year limited warranty. Refer to https://www.lsicorp.com/resources/terms-conditions-warranty/ for more information.
- 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 luminiare per IEC 66262 mechanical impact code
- DesignLights Consortium® (DLC) Premium qualified product. Not all versions of this product may be DLC Premium qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Mirada Medium Wall Sconce (XWM) Outdoor Wall Sconce

Type: H & H-BB

Have questions? Call us at (800) 436-7800

ORDERING GUIDE

Back to Quick Links

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

Family	Distribution	Light Source	Lumen Package	Color Temperature
XWM - Mirada Medium Wall Sconce	**2** - Type 2 **3** - Type 3 **FT** - Type 4 Forward Throw	**LED**	**3L** - 3,000 **6L** - 6,000 **9L** - 9,000 **12L** - 12,000 **15L** - 15,000 **18L** - 18,000 **21L** - 21,000 **Custom Lumen Packages[1]**	**30** - 3000K **40** - 4000K **50** - 5000K **AMB** - Phosphor Converted Amber[2]

Voltage	Finish	Controls	Options
UE - Universal Voltage (120-277V) **HV** - High Voltage (347-480V)	**BLK** - Black **BRZ** - Dark Bronze **GMG** - Gun Metal Gray **GPT** - Graphite **MSV** - Metallic Silver **PLP** - Platinum Plus **SVG** - Satin Verde Green **WHT** - White	**Blank** - None **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' Mh)[3] **ALBCS2** - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' Mh)[3] **Standalone Controls** **CXT** - 0-10v Dimming leads extended to housing exterior **IMSBT1** - Integral Bluetooth™ Motion and Photocell Sensor (8-24' Mh)[3,4] **IMSBT2** - Integral Bluetooth™ Motion and Photocell Sensor (25-40' Mh)[3,4] **Button Type Photocells** **PC120** - 120V **PC208-277** - 208 -277V **PC347** - 347V	**Blank** - None **BP** - Battery Back-up (PY)[5] **HBB** - 5000 Working Battery Backup (CPY)[5] HI-BB **XPMA** - Pole Mounting Bracket **SPL** - 10kV Surge Protection **TB** - Terminal Block

Need more information? Click here for our glossary

Have additional questions? Call us at (800) 436-7800

FUSING ACCESSORY ORDERING INFORMATION[6]

Part Number	Description
FK120'	FK120 - Single Fusing
FK277'	FK277 - Single Fusing
FK347'	FK347 - Single Fusing
DFK208'	DFK - Double Fusing
DFK240'	DFK - Double Fusing (240V)
DFK480'	DFK - Double Fusing (480V)

MOUNTING ACCESSORY ORDERING INFORMATION[6]

Part Number	Description
3560152LR	XWM Wet Location Surface Conduit/Wiring Box
751652	10' Linear Bird Spike Kit (2' Recommended per Luminaire)

1 Custom lumen and wattage packages available consult factory. Values are within industry standard tolerances but not DLC listed.
2 Only available in 6L Lumen Package. Consult factory for lead time and availability.
3 IMSBT and ALBCS control options are not available in 3L or 4L lumen packages when high voltage (HV) is specified.
4 IMSBTxL is field configurable via the Junction app that can be downloaded from your smartphone's app store.
5 Not available in HL
6 Accessories are shipped separately and field installed.
7 Fusing must be located in a hand hole for pole or in the junction box.
8 "CLR" to be replaced by paint finish selection. See Finish options for paint color selections.

Type: M

Catalog # : _____ Project : _____

Prepared By : _____ Date : _____

LCD6

6" LED Commercial Downlight

6 inch LED new construction downlight delivers superior performance and energy efficiency. Designed to use anodized aluminum reflectors delivering even illumination and low glare. The high performance luminaire offers 1000 up to 4000 lumens with color temperatures of 2700K, 3000K, 3500K, 4000K at 80 CRI. Standard driver offers universal (120-277V) and 0 -10V dimming down to 1%. The LCD series is ideal for low to medium ceiling heights for retail, hospitality and commercial applications.

origin™

Features & Specifications

Optical System

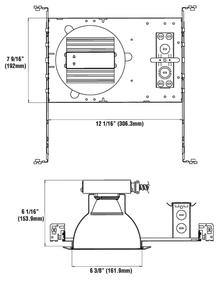
- LED source provides superior lumen output with maximum visual comfort.
- Tailored spot, narrow flood, flood and wide flood beam optics designed for glare free illumination.
- Choice of flanged or flangeless spun reflector utilizing heavy gauge highly reflective diffuse anodized aluminum to deliver low glare, even illumination of the space.
- Reflectors are retained with three retention clips holding the flange tight to the finished ceiling surface.
- Minimum CRI of 80.

Electrical

- High-performance driver features over-voltage, under voltage, short-circuit and over temperature protection.
- 0-10 volt dimming (1% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz.
- L70 Calculated Life: > 50k Hours projected @ 25°C per IESNA TM-21-11.
- Total harmonic distortion: <20%
- Power factor: >.90
- Input power stays constant over life.
- Compatible with Triac (forward-phase or leading-edge), ELV (reverse-phase or trailing edge) dimming only at 120 Vac.
- Driver can be accessed from below plenum for servicing.
- High-efficacy LEDs with integrated circuit board mount directly to an extruded aluminum heatsink to maximize heat dissipation and promote long life.
- Remote Emergency Battery (120-277V) field installed is available to meet critical life safety lighting requirements. The 90-minute battery provides 7.8watts constant power to the LED system, ensuring code compliance To calculate light output during emergency mode(EM battery 7.8 watts x LPW of fixture being powered - see spec sheet). Detailed wiring diagram and installation instructions located on website.

Intertek | Dimmable | RoHS COMPLIANT | Damp Location

Dimensions



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Type: M

LCD6

6" LED Commercial Downlight

Luminaire Ordering Guide

TYPICAL ORDER EXAMPLE: **LCD6 LED 25L UNV DIM1 35 NF TR6R HAZ**

Family/ Size	LED Gen	Lumen Package	Voltage	Driver	Color Temperature	CRI	Beam Option[4]
LCD6 - 6" New Construction[1]	**LED**	**12L** - 1400 **25L** - 2600 **35L** - 3500 **47L** - 4100	**UNV** - 120-277V	**DIM1** - 10ms to 1% (0-10V dimming)	**30** - 3000K **35** - 3500K **40** - 4000K	**Blank** - 80 CRI	**SP** - Spot **NF** - Narrow Flood **FL** - Flood **WF** - Wide Flood

	Reflector	Finish
Self-Fange	**TR6R** - Open Reflector	**SF HAZ** - Haze semi- diffused
		SF SPC - Specular clear
	TR6RWW - Wall Wash[2]	**SF HAZ** - Haze semi-diffused
Flangeless (ship standard w/ white plastic trim ring)	**TR6R** - Open Reflector	**HAZ** - Haze semi-diffused, white trim ring
		SPC - Specular clear, white trim ring
	TR6RFL - Frosted Floating Lens[3]	**HAZ** - Haze semi-diffused Reflector w/ Frosted Floating Lens, w/ integrated white metal trim ring (optional trim ring not compatible)
		SPC - Specular Clear Reflector w/ Frosted Floating Lens, w/ integrated white metal trim ring (optional ring not compatible)
	TR6RWW - Wall Wash[2]	**HAZ** - Haze semi-diffused wall wash reflector, white trim ring
	TR6B - Baffle	**HAZ** - Haze semi-diffused reflector
		WH - White baffle and white trim ring
		BL - Black Baffle and white trim ring
	TR6BL - Baffle w/ Regressed Lens[3]	**HAZ** - Hazed semi-diffused
		WH - White baffle and white trim ring
		SPC - Specular clear
		BL - Black baffle and white trim ring
	TR6RL - Regressed Lens[3]	**HAZ** - Haze semi-diffused reflector w/ specular clear regressed lens and white trim ring
		SPC - Specular clear reflector w/ specular clear regressed lens and white trim ring

Accessory Ordering Information (Accessories are field installed)

Description	Order Number
WH - White metal trim ring (only compatible w/flangeless trims)	618108
EM - Emergency Battery	618633

NOTES:
1. Regressed lens trims are wet location listed. All other trims are rated for damp location.
2. TR6RWW wall wash reflector comes with 45° integrated optic; additional beam optics not compatible
3. TR6RFL frosted floating lens comes with integrated white metal trim; accessory white metal trim ring not required)
4. Housing can ship ahead of the light engine and reflector
5. 90 CRI requires 55 day leadtime & 100 MOQ; Consult Factory
6. Refer to IES Files for Beam Spread.

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CITY OF LONE TREE

DATE

THE CONSTRUCTION PLANS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR SITE IMPROVEMENTS, STORM SEWER, GRADING AND EROSION CONTROL IMPROVEMENTS ONLY.

ENGINEERING DIVISION ACCEPTANCE BLOCK

SHEET NO. L-1.1

ENGINEERING STAMP

CD	4TH SUBMITTAL	11/05/26	MOC148	PRN	JDP	PM	SE	DES	DMH	DRW
		DATE								

PHOTOMETRIC DETAILS
MURPHY USA (NTI)
9091 WESTVIEW RD
LONE TREE COLORADO

Galloway
5500 Greenwood Plaza Blvd. Suite 200
Greenwood Village, CO 80111
303.770.8884 • GallowayUS.com

MURPHY OIL USA, INC.
MURPHY USA
200 PEACH STREET
EL DORADO, AR 71730