PARK MEADOWS - MIXED USE DEVELOPMENT

SITUATED IN THE NORTH HALF OF SECTION 3, TOWNSHIP 6 SOUTH, RANGE 67 WEST OF THE 6TH P.M.

CITY OF LONE TREE, COUNTY OF DOUGLAS, STATE OF COLORADO

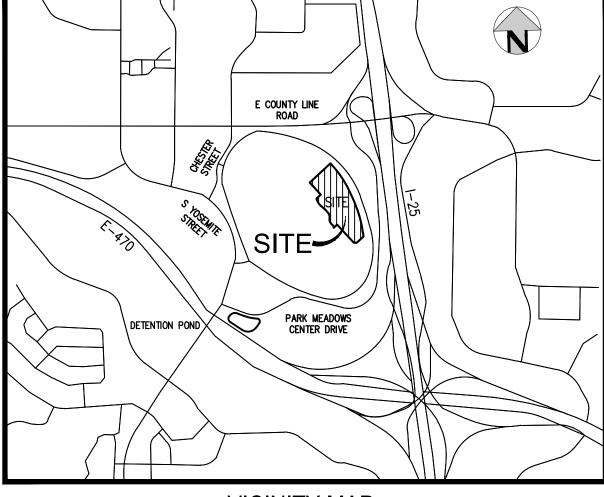
STORM SEWER PLANS

PROJECT ADDRESS:

8405 PARK MEADOWS DRIVE LONE TREE, CO 80124

GENERAL NOTES:

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, STANDARDS, COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND CDOT M & S STANDARDS, LATEST EDITIONS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FROM CITY OF LONE TREE, SOUTHGATE WATER AND SANITATION DISTRICT, CDOT, OR OTHER APPLICABLE AGENCIES.
- EXISTING UTILITIES SHOWN ON THE PLANS ARE LOCATED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO A MINIMUM OF TWO BUSINESS DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE TO REPAIR (AT NO EXPENSE TO THE OWNER) DAMAGE TO ANY AND ALL UTILITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE GENERAL PUBLIC DURING THE PROJECT DURATION.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING TREES, UNLESS OTHERWISE INDICATED. ALL TREE REMOVAL SHALL BE APPROVED BY THE OWNER, ARBORIST OR ENGINEER PRIOR TO DEMOLITION.
- ROCK MULCH, IF PLACED UPSTREAM OF CONCRETE FLATWORK OR GRASSED AREA, SHALL BE PLACED ON TOP OF FINISHED GRADE SHOWN ON THESE PLANS OR OTHERWISE DESIGNED AND CONSTRUCTED TO ADEQUATELY DRAIN AND NOT HOLD WATER. ALL LANDSCAPE EDGE MATERIALS SHALL NOT PREVENT DRAINAGE TO PASS THROUGH.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS, AND THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT HANDRAILS, STAIRS, CURB RAMPS, AND RAMPS ARE INSTALLED IN CONFORMANCE WITH ALL APPLICABLE LOCAL STATE AND/OR FEDERAL REGULATIONS AND STANDARDS, INCLUDING BUT NOT LIMITED TO, THE AMERICANS WITH DISABILITIES ACT (ADA), THE FAIR HOUSING ACT (FHA) AND THE AMERICAN NATIONAL STANDARDS
- CROSS SLOPES ALONG THE ACCESSIBLE ROUTE OR AT LANDINGS SHALL NOT EXCEED 2% IN ANY DIRECTION.
- 10. LONGITUDINAL SLOPES ALONG THE ACCESSIBLE ROUTE SHALL NOT EXCEED 5%, OR 8.33% ON RAMPS. RAMPS, EXCEPT CURB RAMPS, SHALL HAVE HANDRAILS ON
- 11. GUTTER SLOPES AT THE CURB RAMPS SHALL NOT EXCEED FIVE PERCENT. 12. ALL GRADES ARE FINISHED GRADE UNLESS OTHERWISE NOTED.
- 13. ALL GRADES ADJACENT TO THE BUILDINGS SHALL BE AT MINIMUM 8" BELOW
- FINISHED FLOOR ELEVATION UNLESS OTHERWISE NOTED. 14. NON-PAVED GRADES ADJACENT TO BUILDINGS SHALL SLOPE AWAY FROM ALL BUILDINGS AT A MINIMUM OF 10% FOR 10'. ALL PAVED GRADES ATTACHED TO
- BUILDINGS SHALL SLOPE AWAY FROM ALL BUILDINGS AT A MINIMUM OF 1% UNLESS 15. ALL GRADES FOR WALLS ARE FINISHED GRADE ELEVATIONS AT BOTTOM OF FRONT
- FACE (BW) AND TOP BACK OF WALL (TW). THE WALL ELEVATIONS DO NOT INDICATE FOUNDATION DEPTHS OR ELEVATIONS. RETAINING WALL DETAILS SHALL BE
- 16. REFER TO STRUCTURAL PLANS FOR BUILDING FOUNDATION STEP LOCATIONS WHEN APPLICABLE.
- 17. PORTIONS OF STAIRS THAT DO NOT MEET THE MINIMUM 4" RISER HEIGHT (DUE TO AN ADJACENT SLOPING PUBLIC WAY) SHALL HAVE A DISTINCTIVE MARKING STRIPE, 1"-2" IN WIDTH, WITH A SLIP-RESISTANT SURFACE, IN ACCORDANCE WITH CURRENT INTERNATIONAL BUILDING CODE REGULATIONS.
- 18. TOP STEP ELEVATIONS FOR STOOPS AND PATIOS ARE SHOWN FOR REFERENCE ONLY. TOP OF STEPS AND PATIO ELEVATIONS TO BE COORDINATED WITH
- ARCHITECTURAL PLANS/DETAILS AND AS-BUILT STOOP/PATIO ELEVATIONS. 19. ELECTRICAL TRANSFORMER PADS ARE TO BE SET A MINIMUM OF 2" ABOVE THE ADJACENT FINISHED GRADE AROUND THE PERIMETER OF THE PAD. CONTRACTOR SHALL PROVIDE A CONCRETE TURNDOWN AS NECESSARY. CONTRACTOR TO
- VERIFY POSITIVE DRAINAGE AWAY FROM, AND AROUND, ALL ELECTRICAL PADS. 20. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL EXISTING MANHOLES, INLETS, AND FIRE HYDRANTS THAT ARE TO REMAIN ARE ADJUSTED TO MATCH THE PROPOSED GRADE.



VICINITY MAP

SHEET INDEX

ST1	COVER SHEET
ST2	OVERALL GRADING PLAN
ST3	STORM LINE A P&P
ST4	STORM LINE AA P&P
ST5	STORM LINE B P&P
ST6	STORM LINE BA-BB P&P
ST7	STORM LINE BC-BD P&P
ST8	STORM LINE C P&P
ST9	STORM LINE RD P&P
ST10	WATER QUALITY DETENTION POND DETAILS
ST11	STORM SEWER DETAILS
ST12	STORM SEWER DETAILS
ST13	LANDSCAPE DRAIN PLAN
ST14	LANDSCAPE DRAIN PLAN
ST15	LANDSCAPE DRAIN DETAIL

BOB	BOTTOM OF PIPE
BS	BOTTOM OF STEP
BW	BOTTOM OF WALL (FG)
CONC	CONCRETE
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DOOR
DS	DOWNSPOUT
E	EAST, EASTING
EGL	ENERGY GRADE LINE
EL	ELEVATION
EOA	EDGE OF ASPHALT
EOC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EX	EXISTING
FES	FLARED END SECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
F_	FLOW LINE
GB	GRADE BREAK
GV	GATE VALVE
HC	HANDICAP
HGL	HYDRAULIC GRADE LINE
HORZ	HORIZONTAL
HP	HIGH POINT
INV	INVERT
LP	LOW POINT
LSD	LANDSCAPE DRAIN
MAX	MAXIMUM
МН	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
N	NORTH, NORTHING
PR	PROPOSED
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
SAN	SANITARY
SS	SANITARY SEWER
STA	STATION
STM	STORM
ТВ	THRUST BLOCK
	TOD/D 4 O/ OF O/ DD

TBC TOP/BACK OF CURB

TOP TOP OF PIPE

TS TOP OF STEP

TYP TYPICAL

WAT WATER

VERT VERTICAL

TW TOP OF WALL (FG)

ABBREVIATIONS

BOP BOTTOM OF PIPE





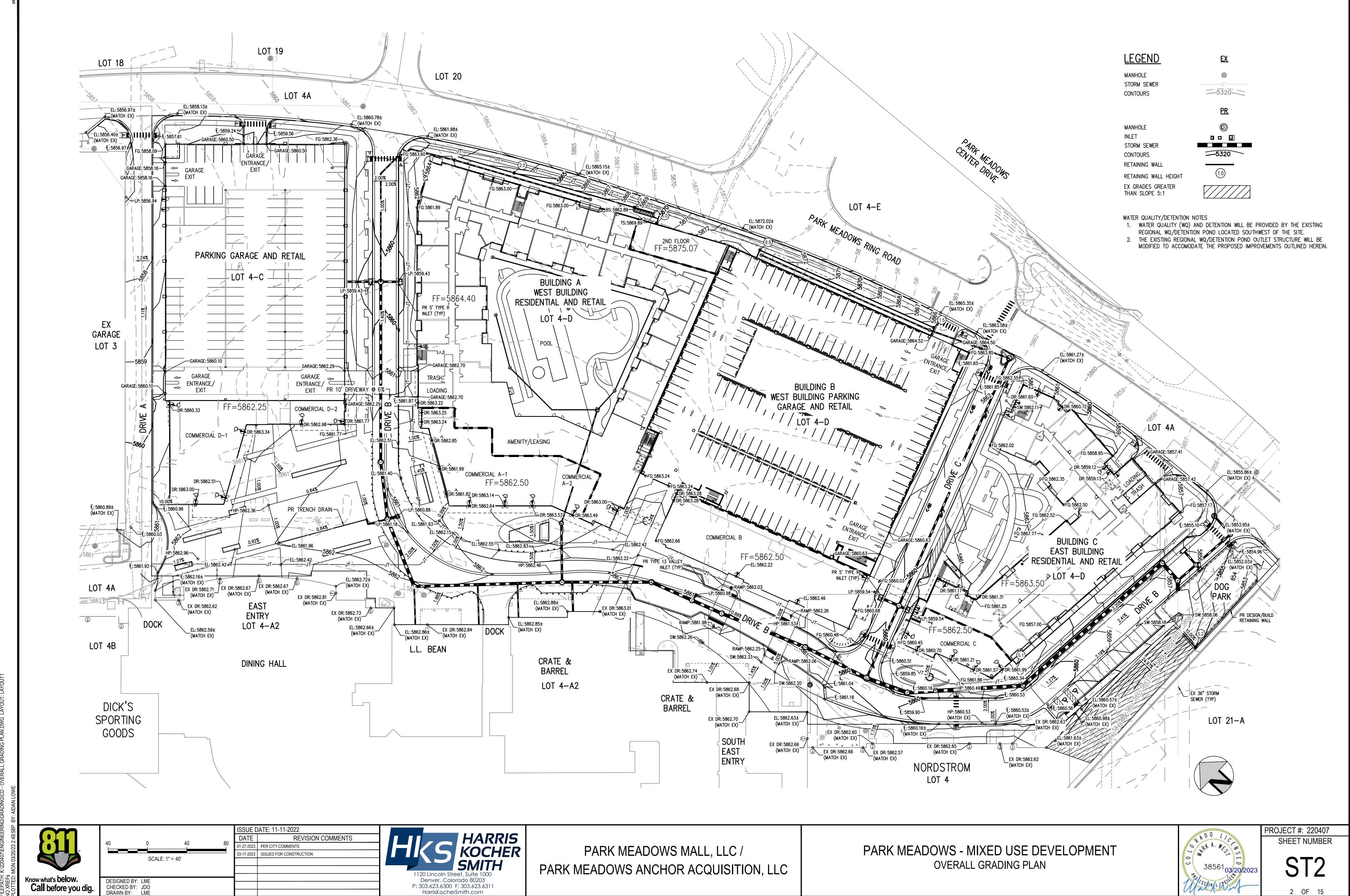
ISSUE D	ATE: 11-11-2022	PROJECT #: 220407
DATE	REVIS	SION COMMENTS
01-27-2023	PER CITY COMMENTS	
03-17-2023	ISSUED FOR CONSTRUCTI	ON



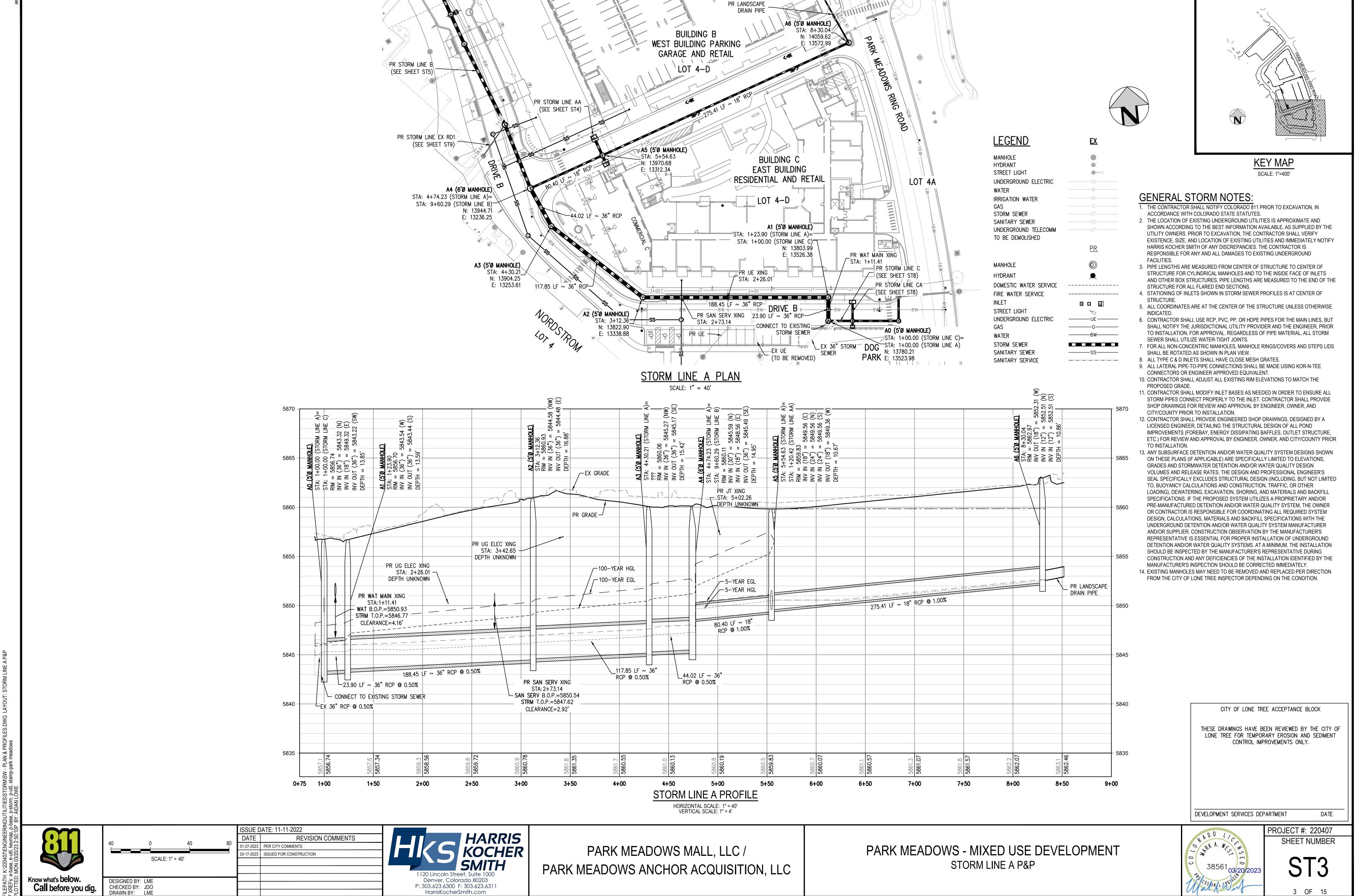
CITY OF LONE TREE ACCEPTANCE BLOCK

THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR TEMPORARY EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.

DEVELOPMENT SERVICES DEPARTMENT



Call before you dig.

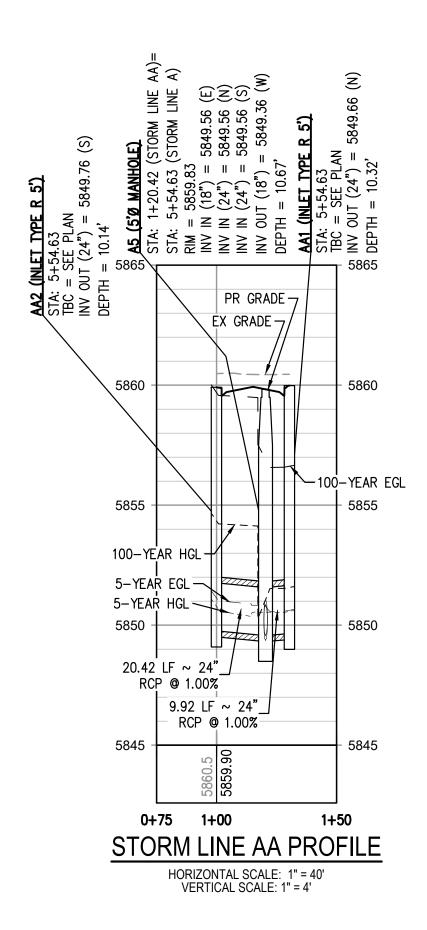


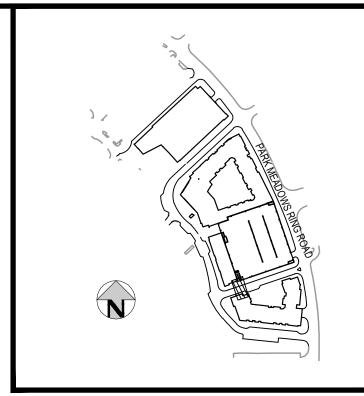
P: 303.623.6300 F: 303.623.6311

Call before you dig.

STORM LINE AA PLAN

SCALE: 1" = 40'





KEY MAP
SCALE: 1"=400'

GENERAL STORM NOTES:

- 1. THE CONTRACTOR SHALL NOTIFY COLORADO 811 PRIOR TO EXCAVATION, IN ACCORDANCE WITH COLORADO STATE STATUTES.
- 2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS APPROXIMATE AND SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE, AS SUPPLIED BY THE UTILITY OWNERS. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL VERIFY EXISTENCE, SIZE, AND LOCATION OF EXISTING UTILITIES AND IMMEDIATELY NOTIFY HARRIS KOCHER SMITH OF ANY DISCREPANCIES. THE CONTRACTOR IS
- FACILITIES.

 3. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE T

RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING UNDERGROUND

- STRUCTURE FOR CYLINDRICAL MANHOLES AND TO THE INSIDE FACE OF INLETS AND OTHER BOX STRUCTURES. PIPE LENGTHS ARE MEASURED TO THE END OF THE STRUCTURE FOR ALL FLARED END SECTIONS.
- 4. STATIONING OF INLETS SHOWN IN STORM SEWER PROFILES IS AT CENTER OF STRUCTURE.
- 5. ALL COORDINATES ARE AT THE CENTER OF THE STRUCTURE UNLESS OTHERWISE INDICATED.
- 6. CONTRACTOR SHALL USE RCP, PVC, PP, OR HDPE PIPES FOR THE MAIN LINES, BUT SHALL NOTIFY THE JURISDICTIONAL UTILITY PROVIDER AND THE ENGINEER, PRIOR TO INSTALLATION, FOR APPROVAL. REGARDLESS OF PIPE MATERIAL, ALL STORM
- SEWER SHALL UTILIZE WATER-TIGHT JOINTS.

 7. FOR ALL NON-CONCENTRIC MANHOLES, MANHOLE RINGS/COVERS AND STEPS LIDS SHALL BE ROTATED AS SHOWN IN PLAN VIEW.
- 8. ALL TYPE C & D INLETS SHALL HAVE CLOSE MESH GRATES.
- 9. ALL LATERAL PIPE-TO-PIPE CONNECTIONS SHALL BE MADE USING KOR-N-TEE CONNECTORS OR ENGINEER APPROVED EQUIVALENT.
- 10. CONTRACTOR SHALL ADJUST ALL EXISTING RIM ELEVATIONS TO MATCH THE
- 11. CONTRACTOR SHALL MODIFY INLET BASES AS NEEDED IN ORDER TO ENSURE ALL STORM PIPES CONNECT PROPERLY TO THE INLET. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER, OWNER, AND CITY/COUNTY PRIOR TO INSTALLATION.
- 12. CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS, DESIGNED BY A LICENSED ENGINEER, DETAILING THE STRUCTURAL DESIGN OF ALL POND IMPROVEMENTS (FOREBAY, ENERGY DISSIPATING BAFFLES, OUTLET STRUCTURE, ETC.) FOR REVIEW AND APPROVAL BY ENGINEER, OWNER, AND CITY/COUNTY PRIOR TO INSTALLATION.
- 13. ANY SUBSURFACE DETENTION AND/OR WATER QUALITY SYSTEM DESIGNS SHOWN ON THESE PLANS (IF APPLICABLE) ARE SPECIFICALLY LIMITED TO ELEVATIONS, GRADES AND STORMWATER DETENTION AND/OR WATER QUALITY DESIGN VOLUMES AND RELEASE RATES. THE DESIGN AND PROFESSIONAL ENGINEER'S SEAL SPECIFICALLY EXCLUDES STRUCTURAL DESIGN (INCLUDING, BUT NOT LIMITED TO, BUOYANCY CALCULATIONS AND CONSTRUCTION, TRAFFIC, OR OTHER LOADING), DEWATERING, EXCAVATION, SHORING, AND MATERIALS AND BACKFILL SPECIFICATIONS. IF THE PROPOSED SYSTEM UTILIZES A PROPRIETARY AND/OR PRE-MANUFACTURED DETENTION AND/OR WATER QUALITY SYSTEM, THE OWNER OR CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED SYSTEM DESIGN, CALCULATIONS, MATERIALS AND BACKFILL SPECIFICATIONS WITH THE UNDERGROUND DETENTION AND/OR WATER QUALITY SYSTEM MANUFACTURER AND/OR SUPPLIER. CONSTRUCTION OBSERVATION BY THE MANUFACTURER'S REPRESENTATIVE IS ESSENTIAL FOR PROPER INSTALLATION OF UNDERGROUND DETENTION AND/OR WATER QUALITY SYSTEMS. AT A MINIMUM, THE INSTALLATION SHOULD BE INSPECTED BY THE MANUFACTURER'S REPRESENTATIVE DURING CONSTRUCTION AND ANY DEFICIENCIES OF THE INSTALLATION IDENTIFIED BY THE MANUFACTURER'S INSPECTION SHOULD BE CORRECTED IMMEDIATELY.

14. EXISTING MANHOLES MAY NEED TO BE REMOVED AND REPLACED PER DIRECTION FROM THE CITY OF LONE TREE INSPECTOR DEPENDING ON THE CONDITION.

MANHOLE
HYDRANT
STREET LIGHT
UNDERGROUND ELECTRIC
WATER
IRRIGATION WATER
GAS
STORM SEWER
SANITARY SEWER
UNDERGROUND TELECOMM
TO BE DEMOLISHED

	<u>PR</u>
MANHOLE	©
HYDRANT	
DOMESTIC WATER SERVICE	
FIRE WATER SERVICE	
INLET	
STREET LIGHT	%
UNDERGROUND ELECTRIC	———UE———
GAS	G
WATER	8W
STORM SEWER	
CANITADY CEWED	22
SANITARY SEWER	55

SANITARY SERVICE

CITY OF LONE TREE ACCEPTANCE BLOCK

THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR TEMPORARY EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.

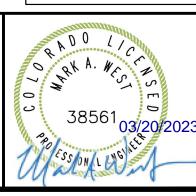
DEVELOPMENT SERVICES DEPARTMENT

Know what's below.
Call before you dig.



PARK MEADOWS MALL, LLC /
PARK MEADOWS ANCHOR ACQUISITION, LLC

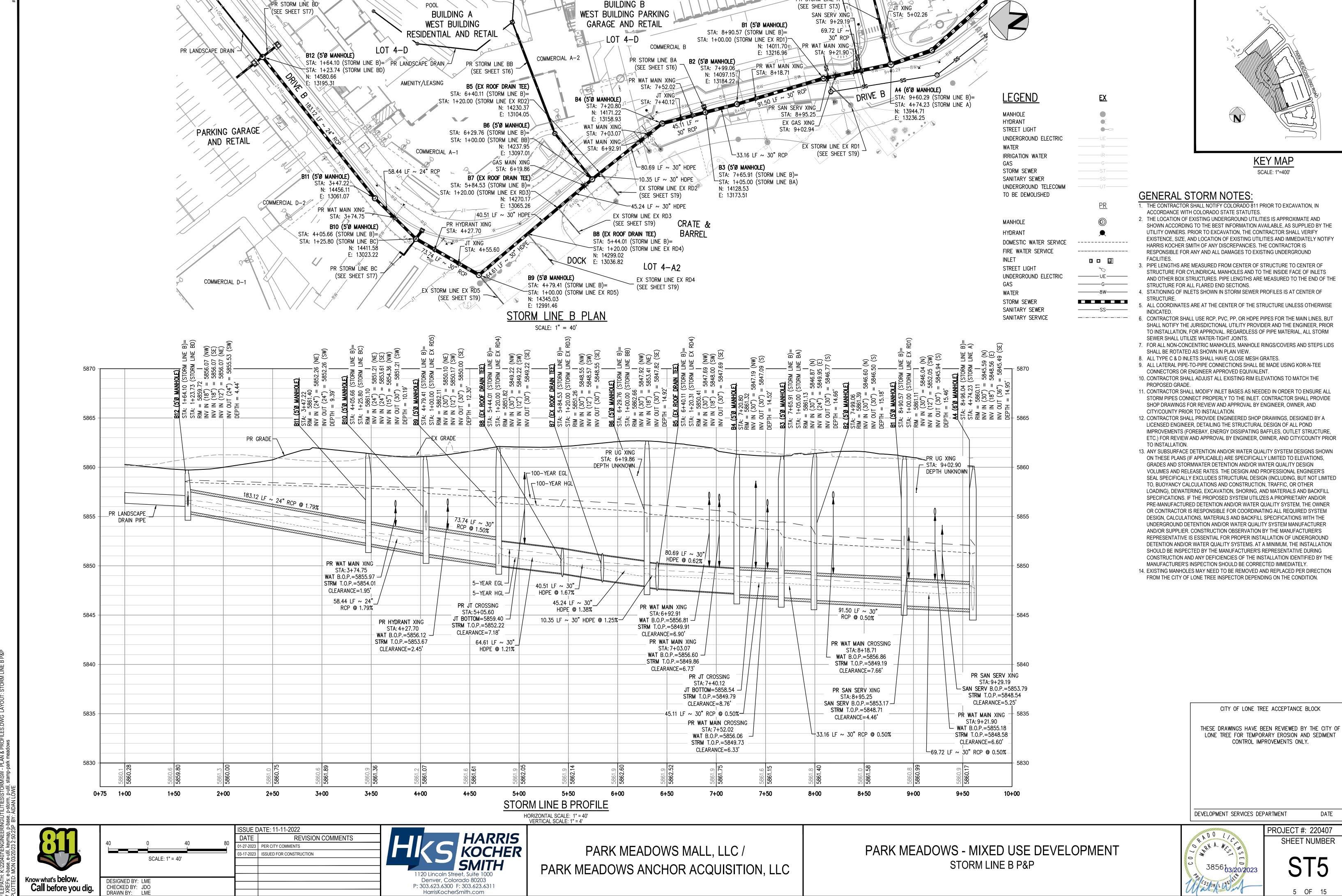
PARK MEADOWS - MIXED USE DEVELOPMENT STORM LINE AA P&P

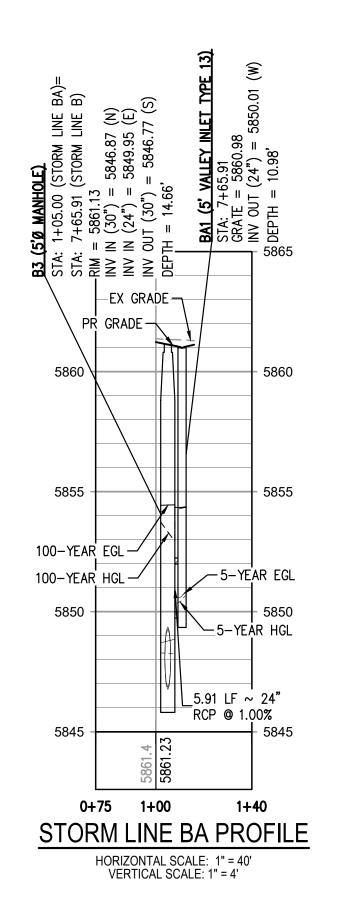


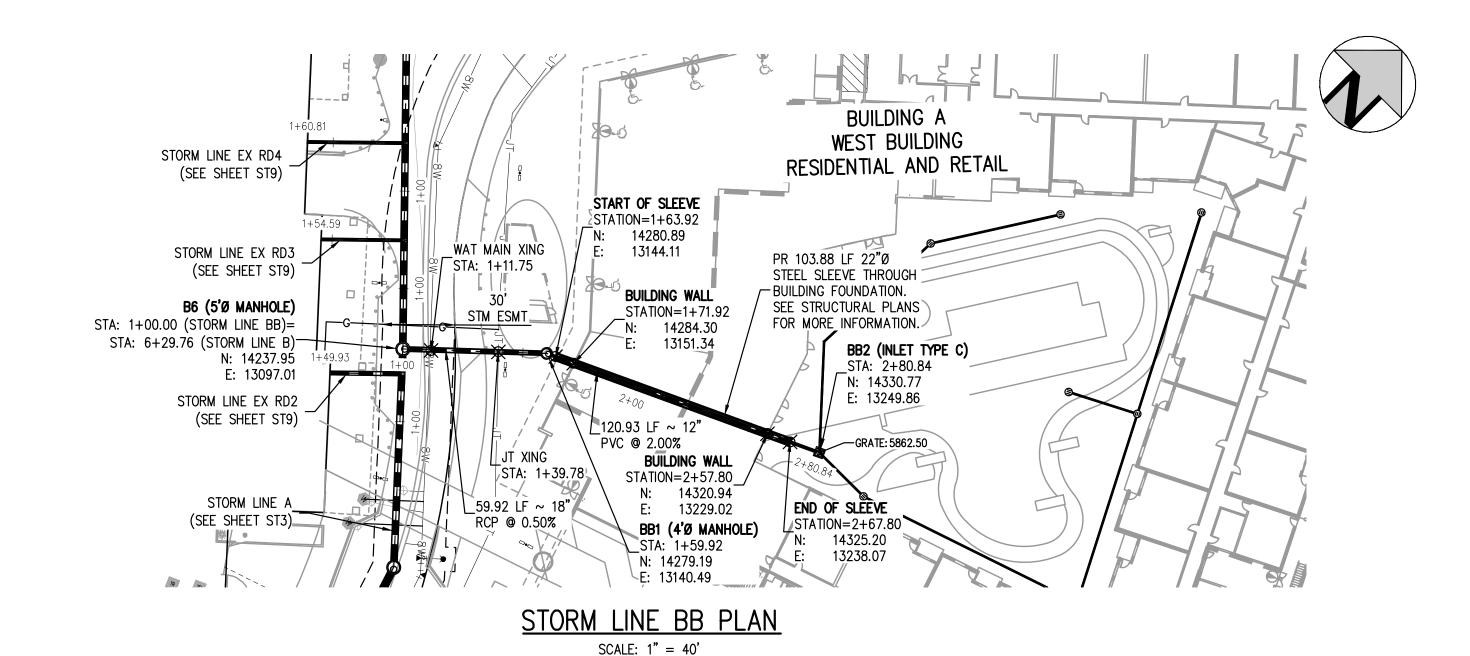
PROJECT #: 220407
SHEET NUMBER

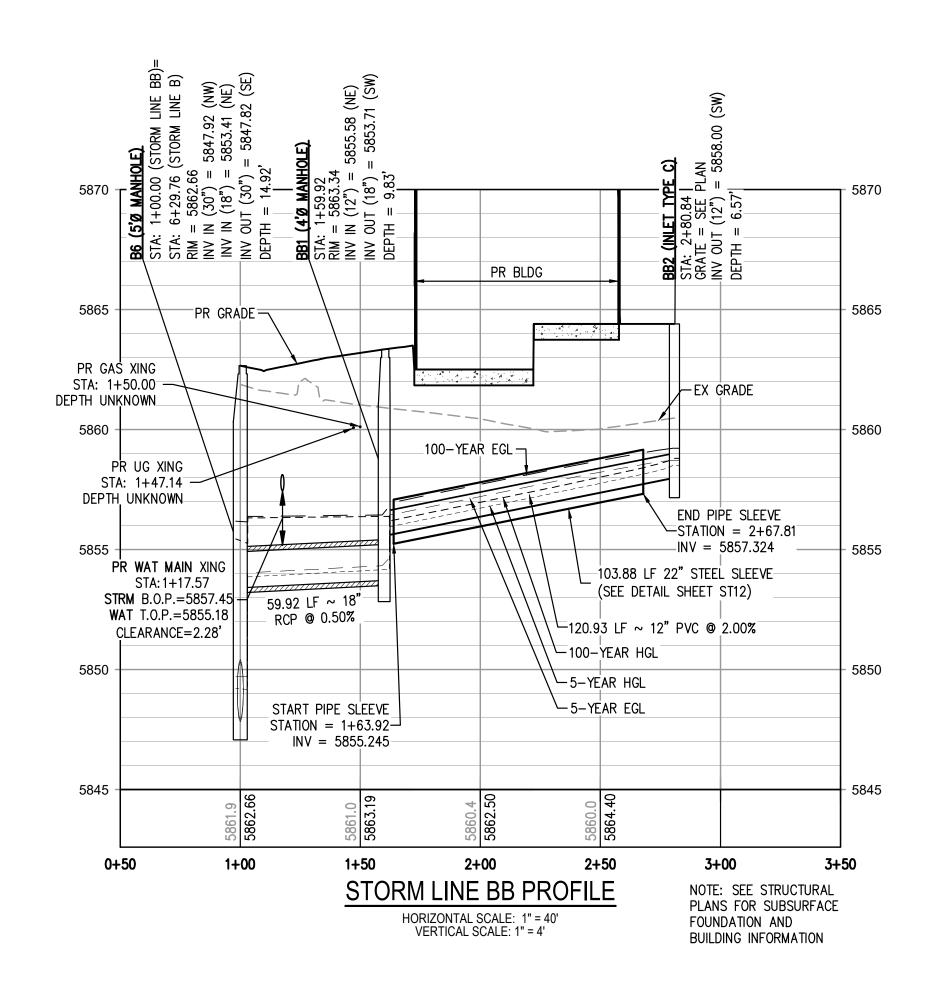
ST4

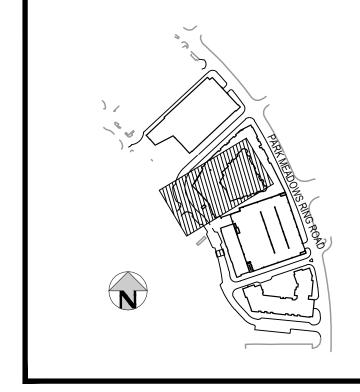
4 OF 15







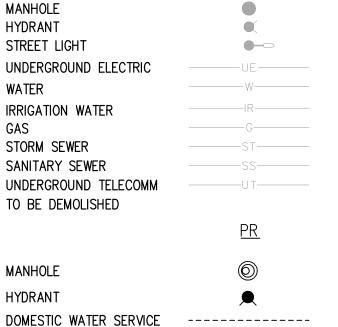




KEY MAP SCALE: 1"=400'

GENERAL STORM NOTES:

- 1. THE CONTRACTOR SHALL NOTIFY COLORADO 811 PRIOR TO EXCAVATION, IN ACCORDANCE WITH COLORADO STATE STATUTES.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS APPROXIMATE AND UTILITY OWNERS. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL VERIFY EXISTENCE, SIZE, AND LOCATION OF EXISTING UTILITIES AND IMMEDIATELY NOTIFY HARRIS KOCHER SMITH OF ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING UNDERGROUND
- 3. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF
- STRUCTURE FOR CYLINDRICAL MANHOLES AND TO THE INSIDE FACE OF INLETS AND OTHER BOX STRUCTURES. PIPE LENGTHS ARE MEASURED TO THE END OF THE STRUCTURE FOR ALL FLARED END SECTIONS.
- 4. STATIONING OF INLETS SHOWN IN STORM SEWER PROFILES IS AT CENTER OF
- 5. ALL COORDINATES ARE AT THE CENTER OF THE STRUCTURE UNLESS OTHERWISE INDICATED.
- 6. CONTRACTOR SHALL USE RCP, PVC, PP, OR HDPE PIPES FOR THE MAIN LINES, BUT SHALL NOTIFY THE JURISDICTIONAL UTILITY PROVIDER AND THE ENGINEER, PRIOR TO INSTALLATION, FOR APPROVAL. REGARDLESS OF PIPE MATERIAL, ALL STORM
- SEWER SHALL UTILIZE WATER-TIGHT JOINTS. 7. FOR ALL NON-CONCENTRIC MANHOLES, MANHOLE RINGS/COVERS AND STEPS LIDS
- SHALL BE ROTATED AS SHOWN IN PLAN VIEW. 8. ALL TYPE C & D INLETS SHALL HAVE CLOSE MESH GRATES.
- 9. ALL LATERAL PIPE-TO-PIPE CONNECTIONS SHALL BE MADE USING KOR-N-TEE CONNECTORS OR ENGINEER APPROVED EQUIVALENT.
- 11. CONTRACTOR SHALL MODIFY INLET BASES AS NEEDED IN ORDER TO ENSURE ALL STORM PIPES CONNECT PROPERLY TO THE INLET. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER, OWNER, AND
- CITY/COUNTY PRIOR TO INSTALLATION. 12. CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS, DESIGNED BY A LICENSED ENGINEER, DETAILING THE STRUCTURAL DESIGN OF ALL POND IMPROVEMENTS (FOREBAY, ENERGY DISSIPATING BAFFLES, OUTLET STRUCTURE ETC.) FOR REVIEW AND APPROVAL BY ENGINEER, OWNER, AND CITY/COUNTY PRIOR
- TO INSTALLATION. 13. ANY SUBSURFACE DETENTION AND/OR WATER QUALITY SYSTEM DESIGNS SHOWN ON THESE PLANS (IF APPLICABLE) ARE SPECIFICALLY LIMITED TO ELEVATIONS, GRADES AND STORMWATER DETENTION AND/OR WATER QUALITY DESIGN VOLUMES AND RELEASE RATES. THE DESIGN AND PROFESSIONAL ENGINEER'S SEAL SPECIFICALLY EXCLUDES STRUCTURAL DESIGN (INCLUDING, BUT NOT LIMITED TO, BUOYANCY CALCULATIONS AND CONSTRUCTION, TRAFFIC, OR OTHER LOADING), DEWATERING, EXCAVATION, SHORING, AND MATERIALS AND BACKFILI SPECIFICATIONS. IF THE PROPOSED SYSTEM UTILIZES A PROPRIETARY AND/OR PRE-MANUFACTURED DETENTION AND/OR WATER QUALITY SYSTEM. THE OWNER OR CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED SYSTEM DESIGN, CALCULATIONS, MATERIALS AND BACKFILL SPECIFICATIONS WITH THE UNDERGROUND DETENTION AND/OR WATER QUALITY SYSTEM MANUFACTUREF AND/OR SUPPLIER. CONSTRUCTION OBSERVATION BY THE MANUFACTURER'S REPRESENTATIVE IS ESSENTIAL FOR PROPER INSTALLATION OF UNDERGROUND DETENTION AND/OR WATER QUALITY SYSTEMS. AT A MINIMUM, THE INSTALLATION SHOULD BE INSPECTED BY THE MANUFACTURER'S REPRESENTATIVE DURING
- MANUFACTURER'S INSPECTION SHOULD BE CORRECTED IMMEDIATELY 14. EXISTING MANHOLES MAY NEED TO BE REMOVED AND REPLACED PER DIRECTION FROM THE CITY OF LONE TREE INNSPECTOR DEPENDING ON THE CONDITION.



_____SS____

<u>LEGEND</u>

FIRE WATER SERVICE

UNDERGROUND ELECTRIC

STREET LIGHT

STORM SEWER

SANITARY SEWER

SANITARY SERVICE

GAS WATER

CITY OF LONE TREE ACCEPTANCE BLOCK THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR TEMPORARY EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.

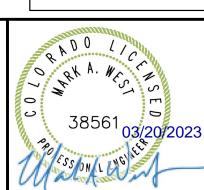
DEVELOPMENT SERVICES DEPARTMENT

Call before you dig.

SSUE DATE: 11-11-2022 **REVISION COMMENTS** -27-2023 PER CITY COMMENTS 3-17-2023 ISSUED FOR CONSTRUCTION SCALE: 1" = 40' DESIGNED BY: LME CHECKED BY: JDO DRAWN BY: LME



PARK MEADOWS MALL, LLC / PARK MEADOWS ANCHOR ACQUISITION, LLC PARK MEADOWS - MIXED USE DEVELOPMENT



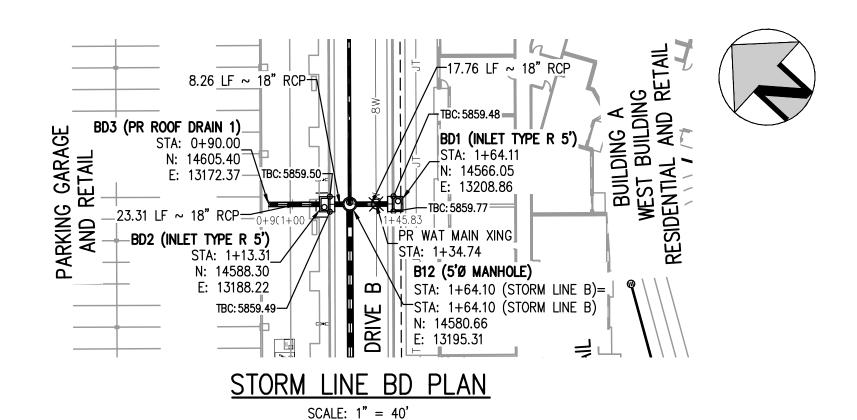
PROJECT #: 220407 SHEET NUMBER

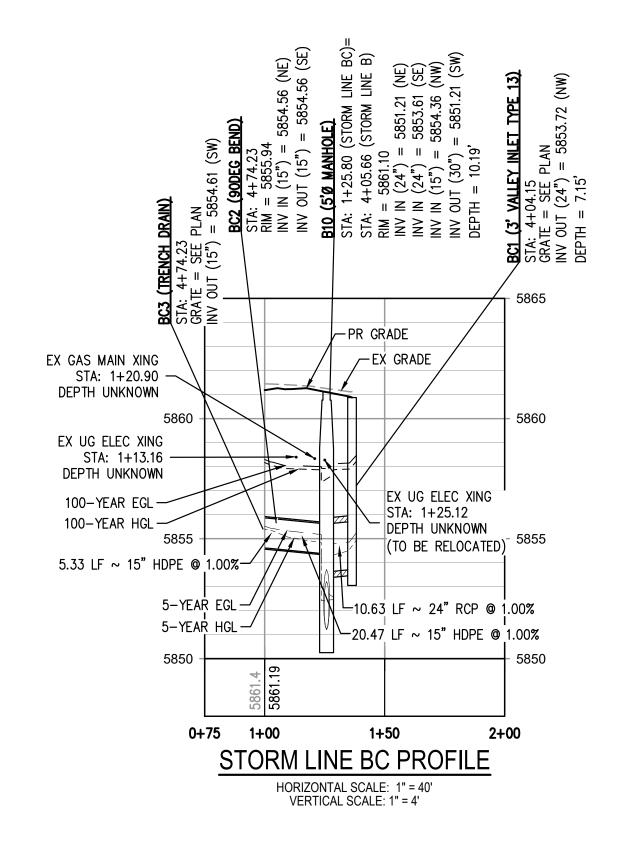
6 OF 15

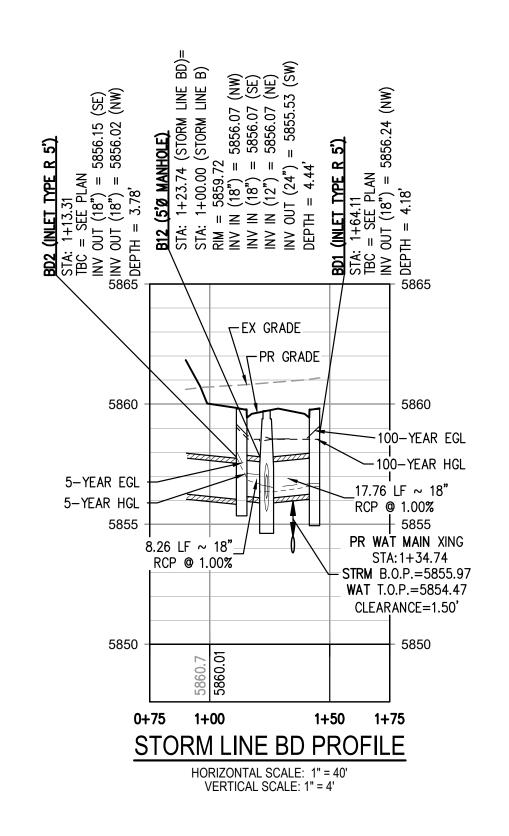
DATE

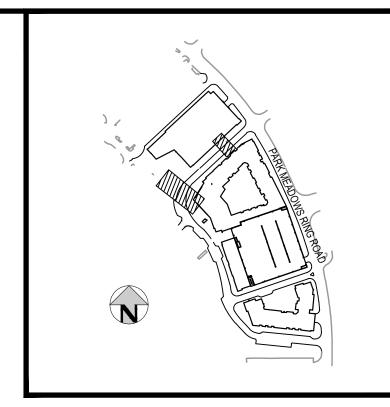
STORM LINE BA-BB P&P

SCALE: 1" = 40'









KEY MAP SCALE: 1"=400'

GENERAL STORM NOTES:

1. THE CONTRACTOR SHALL NOTIFY COLORADO 811 PRIOR TO EXCAVATION, IN ACCORDANCE WITH COLORADO STATE STATUTES.

- P. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS APPROXIMATE AND UTILITY OWNERS. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL VERIFY EXISTENCE, SIZE, AND LOCATION OF EXISTING UTILITIES AND IMMEDIATELY NOTIFY HARRIS KOCHER SMITH OF ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING UNDERGROUND
- 3. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE FOR CYLINDRICAL MANHOLES AND TO THE INSIDE FACE OF INLETS AND OTHER BOX STRUCTURES. PIPE LENGTHS ARE MEASURED TO THE END OF THE STRUCTURE FOR ALL FLARED END SECTIONS.
- 4. STATIONING OF INLETS SHOWN IN STORM SEWER PROFILES IS AT CENTER OF
- 5. ALL COORDINATES ARE AT THE CENTER OF THE STRUCTURE UNLESS OTHERWISE INDICATED.
- 6. CONTRACTOR SHALL USE RCP, PVC, PP, OR HDPE PIPES FOR THE MAIN LINES, BUT SHALL NOTIFY THE JURISDICTIONAL UTILITY PROVIDER AND THE ENGINEER, PRIOR TO INSTALLATION, FOR APPROVAL. REGARDLESS OF PIPE MATERIAL, ALL STORM SEWER SHALL UTILIZE WATER-TIGHT JOINTS.
- 7. FOR ALL NON-CONCENTRIC MANHOLES, MANHOLE RINGS/COVERS AND STEPS LIDS SHALL BE ROTATED AS SHOWN IN PLAN VIEW.
- 8. ALL TYPE C & D INLETS SHALL HAVE CLOSE MESH GRATES.
- 9. ALL LATERAL PIPE-TO-PIPE CONNECTIONS SHALL BE MADE USING KOR-N-TEE CONNECTORS OR ENGINEER APPROVED EQUIVALENT.
- 10. CONTRACTOR SHALL ADJUST ALL EXISTING RIM ELEVATIONS TO MATCH THE 11. CONTRACTOR SHALL MODIFY INLET BASES AS NEEDED IN ORDER TO ENSURE ALL
- STORM PIPES CONNECT PROPERLY TO THE INLET. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER, OWNER, AND CITY/COUNTY PRIOR TO INSTALLATION. 12. CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS, DESIGNED BY A
- LICENSED ENGINEER, DETAILING THE STRUCTURAL DESIGN OF ALL POND IMPROVEMENTS (FOREBAY, ENERGY DISSIPATING BAFFLES, OUTLET STRUCTURE TO INSTALLATION. 13. ANY SUBSURFACE DETENTION AND/OR WATER QUALITY SYSTEM DESIGNS SHOWN
- ON THESE PLANS (IF APPLICABLE) ARE SPECIFICALLY LIMITED TO ELEVATIONS, GRADES AND STORMWATER DETENTION AND/OR WATER QUALITY DESIGN VOLUMES AND RELEASE RATES. THE DESIGN AND PROFESSIONAL ENGINEER'S SEAL SPECIFICALLY EXCLUDES STRUCTURAL DESIGN (INCLUDING, BUT NOT LIMITED TO, BUOYANCY CALCULATIONS AND CONSTRUCTION, TRAFFIC, OR OTHER LOADING), DEWATERING, EXCAVATION, SHORING, AND MATERIALS AND BACKFILL SPECIFICATIONS. IF THE PROPOSED SYSTEM UTILIZES A PROPRIETARY AND/OR PRE-MANUFACTURED DETENTION AND/OR WATER QUALITY SYSTEM, THE OWNER OR CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED SYSTEM DESIGN, CALCULATIONS, MATERIALS AND BACKFILL SPECIFICATIONS WITH THE UNDERGROUND DETENTION AND/OR WATER QUALITY SYSTEM MANUFACTURER AND/OR SUPPLIER. CONSTRUCTION OBSERVATION BY THE MANUFACTURER'S REPRESENTATIVE IS ESSENTIAL FOR PROPER INSTALLATION OF UNDERGROUND DETENTION AND/OR WATER QUALITY SYSTEMS, AT A MINIMUM, THE INSTALLATION SHOULD BE INSPECTED BY THE MANUFACTURER'S REPRESENTATIVE DURING CONSTRUCTION AND ANY DEFICIENCIES OF THE INSTALLATION IDENTIFIED BY THE MANUFACTURER'S INSPECTION SHOULD BE CORRECTED IMMEDIATELY.
- 14. EXISTING MANHOLES MAY NEED TO BE REMOVED AND REPLACED PER DIRECTION FROM THE CITY OF LONE TREE INNSPECTOR DEPENDING ON THE CONDITION.

<u>LEGEND</u>	<u>EX</u>
MANHOLE HYDRANT STREET LIGHT UNDERGROUND ELECTRIC WATER IRRIGATION WATER GAS STORM SEWER SANITARY SEWER UNDERGROUND TELECOMM	——————————————————————————————————————
TO BE DEMOLISHED	<u>PR</u>
MANHOLE HYDRANT	
DOMESTIC WATER SERVICE FIRE WATER SERVICE	
INLET STREET LIGHT UNDERGROUND ELECTRIC GAS WATER	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
STORM SEWER SANITARY SEWER	——————————————————————————————————————

SANITARY SERVICE

CITY OF LONE TREE ACCEPTANCE BLOCK

THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR TEMPORARY EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.

DEVELOPMENT SERVICES DEPARTMENT

Call before you dig.

SSUE DATE: 11-11-2022 **REVISION COMMENTS** -27-2023 PER CITY COMMENTS 3-17-2023 ISSUED FOR CONSTRUCTION SCALE: 1" = 40' DESIGNED BY: LME CHECKED BY: JDO DRAWN BY: LME



PARK MEADOWS MALL, LLC / PARK MEADOWS ANCHOR ACQUISITION, LLC PARK MEADOWS - MIXED USE DEVELOPMENT STORM LINE BC-BD P&P



PROJECT #: 220407 SHEET NUMBER

7 OF 15

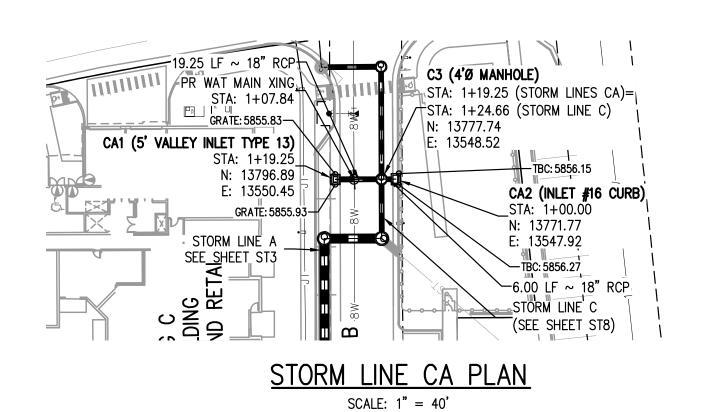
-100-YEAR HGL

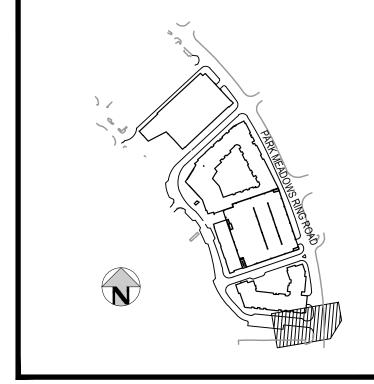
r 5−YEAR HGL

-5-YEAR EGL

PR GRADE

⊢EX GRADE



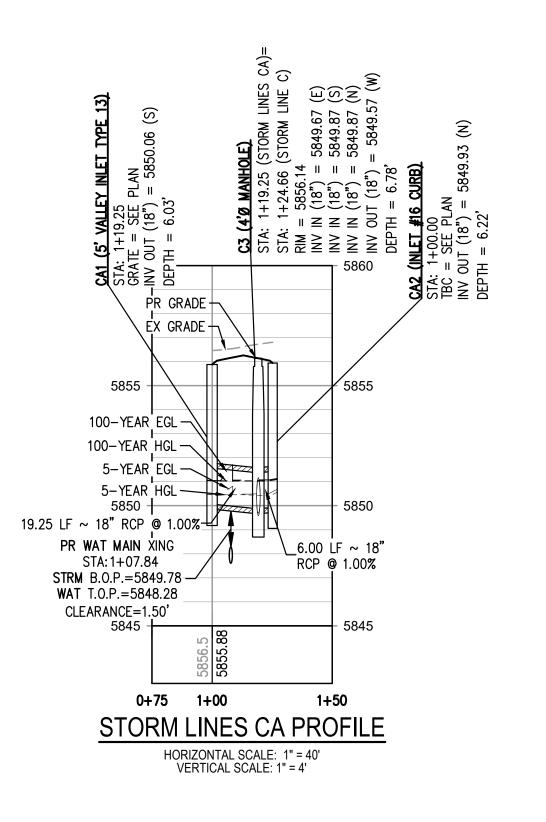


KEY MAP SCALE: 1"=400'

GENERAL STORM NOTES:

- 1. THE CONTRACTOR SHALL NOTIFY COLORADO 811 PRIOR TO EXCAVATION, IN ACCORDANCE WITH COLORADO STATE STATUTES.
- THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS APPROXIMATE AND UTILITY OWNERS. PRIOR TO EXCAVATION. THE CONTRACTOR SHALL VERIFY EXISTENCE, SIZE, AND LOCATION OF EXISTING UTILITIES AND IMMEDIATELY NOTIFY HARRIS KOCHER SMITH OF ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING UNDERGROUND
- 3. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE FOR CYLINDRICAL MANHOLES AND TO THE INSIDE FACE OF INLETS AND OTHER BOX STRUCTURES. PIPE LENGTHS ARE MEASURED TO THE END OF THE
- STRUCTURE FOR ALL FLARED END SECTIONS. 4. STATIONING OF INLETS SHOWN IN STORM SEWER PROFILES IS AT CENTER OF
- 5. ALL COORDINATES ARE AT THE CENTER OF THE STRUCTURE UNLESS OTHERWISE
- INDICATED.
- 6. CONTRACTOR SHALL USE RCP, PVC, PP, OR HDPE PIPES FOR THE MAIN LINES, BUT SHALL NOTIFY THE JURISDICTIONAL UTILITY PROVIDER AND THE ENGINEER, PRIOR TO INSTALLATION, FOR APPROVAL. REGARDLESS OF PIPE MATERIAL, ALL STORM SEWER SHALL UTILIZE WATER-TIGHT JOINTS.
- 7. FOR ALL NON-CONCENTRIC MANHOLES, MANHOLE RINGS/COVERS AND STEPS LIDS SHALL BE ROTATED AS SHOWN IN PLAN VIEW.
- 8. ALL TYPE C & D INLETS SHALL HAVE CLOSE MESH GRATES.
- 9. ALL LATERAL PIPE-TO-PIPE CONNECTIONS SHALL BE MADE USING KOR-N-TEE CONNECTORS OR ENGINEER APPROVED EQUIVALENT.
- 11. CONTRACTOR SHALL MODIFY INLET BASES AS NEEDED IN ORDER TO ENSURE ALL STORM PIPES CONNECT PROPERLY TO THE INLET. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER, OWNER, AND CITY/COUNTY PRIOR TO INSTALLATION.
- 12. CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS, DESIGNED BY A LICENSED ENGINEER, DETAILING THE STRUCTURAL DESIGN OF ALL POND IMPROVEMENTS (FOREBAY, ENERGY DISSIPATING BAFFLES, OUTLET STRUCTURE TO INSTALLATION.
- 13. ANY SUBSURFACE DETENTION AND/OR WATER QUALITY SYSTEM DESIGNS SHOWN ON THESE PLANS (IF APPLICABLE) ARE SPECIFICALLY LIMITED TO ELEVATIONS, GRADES AND STORMWATER DETENTION AND/OR WATER QUALITY DESIGN VOLUMES AND RELEASE RATES. THE DESIGN AND PROFESSIONAL ENGINEER'S SEAL SPECIFICALLY EXCLUDES STRUCTURAL DESIGN (INCLUDING, BUT NOT LIMITED TO, BUOYANCY CALCULATIONS AND CONSTRUCTION, TRAFFIC, OR OTHER LOADING), DEWATERING, EXCAVATION, SHORING, AND MATERIALS AND BACKFILI SPECIFICATIONS. IF THE PROPOSED SYSTEM UTILIZES A PROPRIETARY AND/OR PRE-MANUFACTURED DETENTION AND/OR WATER QUALITY SYSTEM, THE OWNER OR CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED SYSTEM DESIGN, CALCULATIONS, MATERIALS AND BACKFILL SPECIFICATIONS WITH THE UNDERGROUND DETENTION AND/OR WATER QUALITY SYSTEM MANUFACTURE AND/OR SUPPLIER, CONSTRUCTION OBSERVATION BY THE MANUFACTURER'S
- 14. EXISTING MANHOLES MAY NEED TO BE REMOVED AND REPLACED PER DIRECTION FROM THE CITY OF LONE TREE INNSPECTOR DEPENDING ON THE CONDITION.

MANUFACTURER'S INSPECTION SHOULD BE CORRECTED IMMEDIATELY



LEGEND MANHOLE HYDRANT STREET LIGHT UNDERGROUND ELECTRIC WATER IRRIGATION WATER STORM SEWER SANITARY SEWER UNDERGROUND TELECOMM TO BE DEMOLISHED MANHOLE HYDRANT DOMESTIC WATER SERVICE -----FIRE WATER SERVICE INLET

STREET LIGHT

STORM SEWER

SANITARY SEWER

SANITARY SERVICE

WATER

UNDERGROUND ELECTRIC

_____8W____

-----SS-----

CITY OF LONE TREE ACCEPTANCE BLOCK

THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR TEMPORARY EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.

DEVELOPMENT SERVICES DEPARTMENT DATE



SSUE DATE: 11-11-2022 **REVISION COMMENTS** -27-2023 PER CITY COMMENTS 3-17-2023 ISSUED FOR CONSTRUCTION SCALE: 1" = 40' DESIGNED BY: LME CHECKED BY: JDO DRAWN BY: LME

100-YEAR EGL

EX 36" R¢P:

CONNECT TO EXISTING STORM LINE —



5855

5840

5835

3+00

PR WAT MAIN XING

STRM B.O.P.=5850.83

WAT T.O.P.=5849.33 CLEARANCE=1.50'

¹53.39 LF ~ EX 18" RCP @ 0.96%

-24.81 LF ~ 18" RCP @ 1.00%

PR WAT MAIN XING

STA: 1+82.88

STRM B.O.P.=5850.15

WAT T.O.P.=5848.65

CLEARANCE=1.50'

¹ 46.81 LF ~ 18" RCP @ 1.00% −

2+00

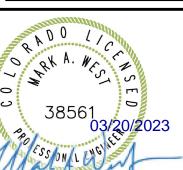
STORM LINE C PROFILE

HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 4'

└24.66 LF ~ 18" RCP @ 1.00%

STA: 2+43.16

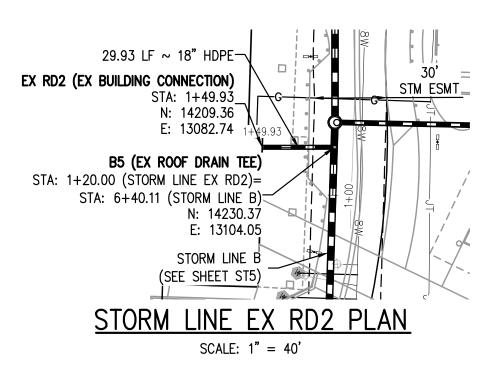
PARK MEADOWS MALL, LLC / PARK MEADOWS ANCHOR ACQUISITION, LLC

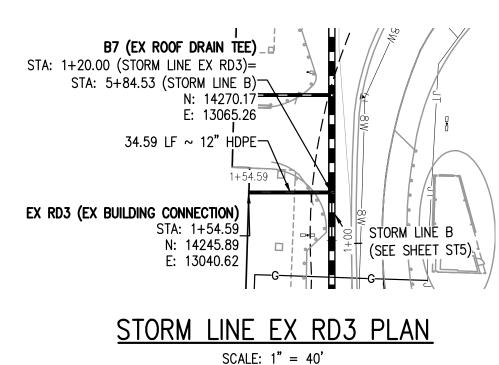


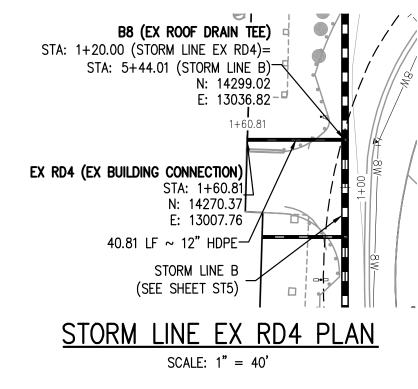
PROJECT #: 220407 SHEET NUMBER

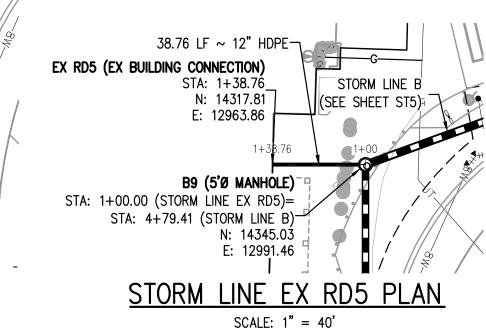
8 OF 15

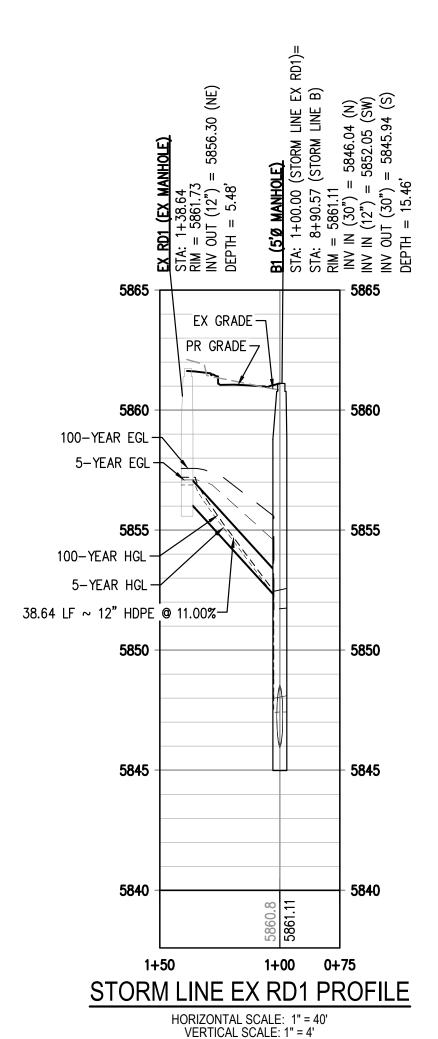
PARK MEADOWS - MIXED USE DEVELOPMENT STORM LINE C P&P

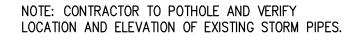


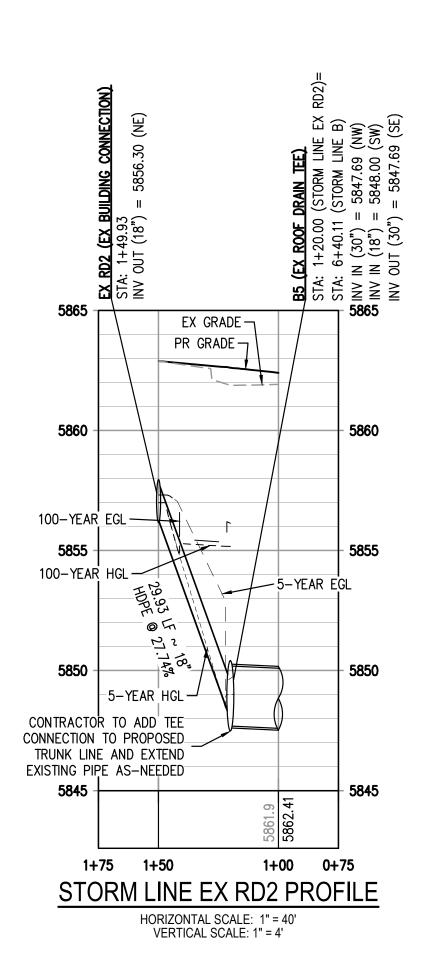


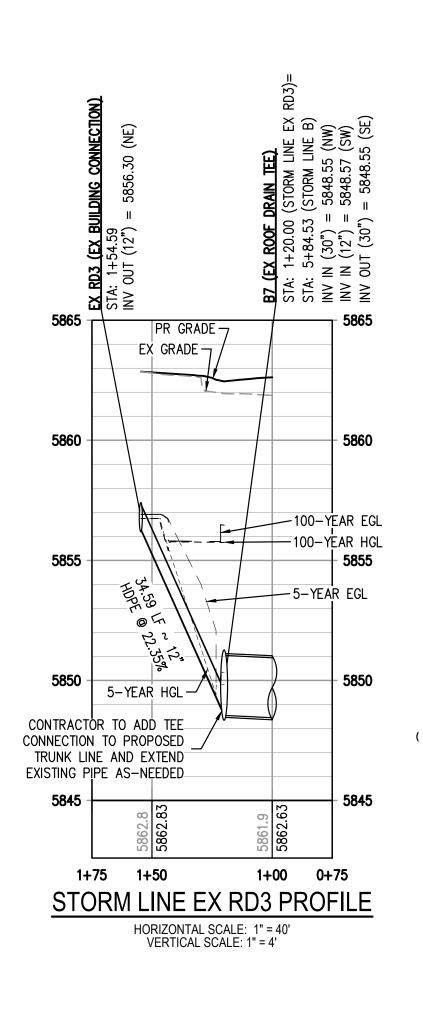


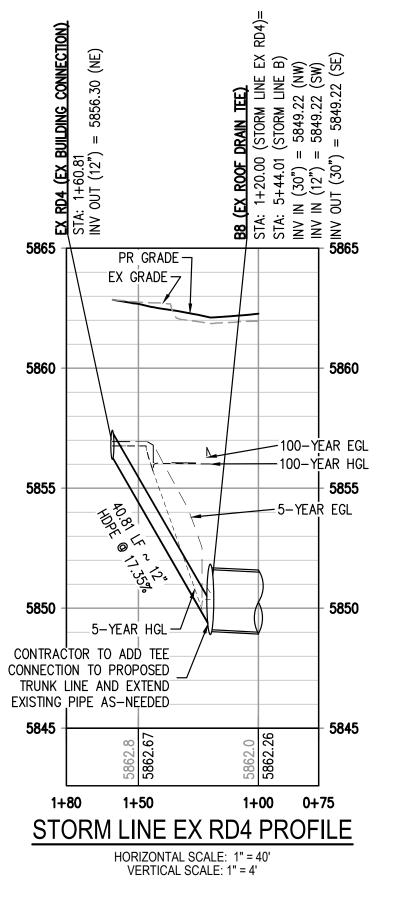


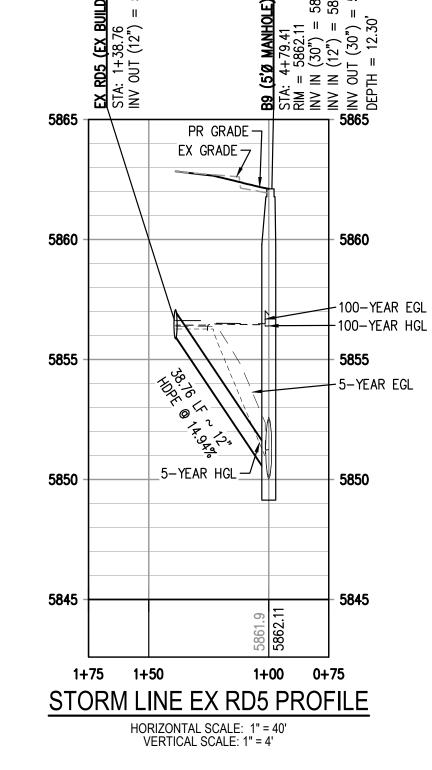


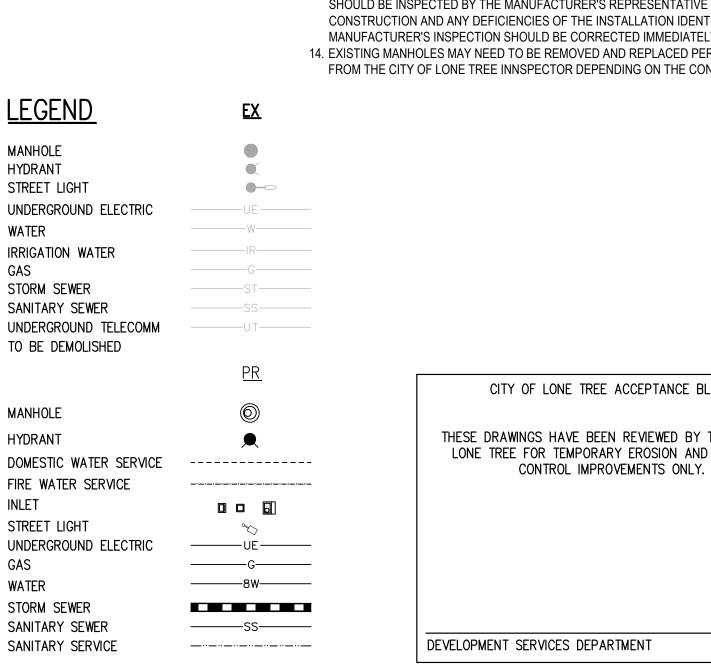


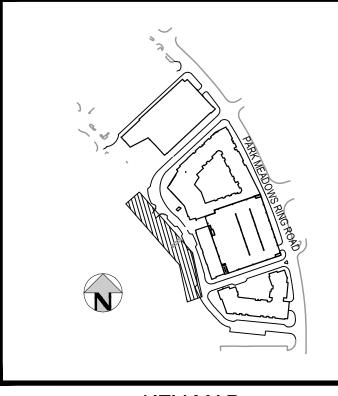












KEY MAP SCALE: 1"=400'

GENERAL STORM NOTES:

1. THE CONTRACTOR SHALL NOTIFY COLORADO 811 PRIOR TO EXCAVATION, IN ACCORDANCE WITH COLORADO STATE STATUTES

- 2. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS APPROXIMATE AND SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE, AS SUPPLIED BY THE UTILITY OWNERS. PRIOR TO EXCAVATION. THE CONTRACTOR SHALL VERIFY EXISTENCE, SIZE, AND LOCATION OF EXISTING UTILITIES AND IMMEDIATELY NOTIFY HARRIS KOCHER SMITH OF ANY DISCREPANCIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING UNDERGROUND
- 3. PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE FOR CYLINDRICAL MANHOLES AND TO THE INSIDE FACE OF INLETS AND OTHER BOX STRUCTURES. PIPE LENGTHS ARE MEASURED TO THE END OF THE STRUCTURE FOR ALL FLARED END SECTIONS.
- 4. STATIONING OF INLETS SHOWN IN STORM SEWER PROFILES IS AT CENTER OF
- 5. ALL COORDINATES ARE AT THE CENTER OF THE STRUCTURE UNLESS OTHERWISE INDICATED.
- 6. CONTRACTOR SHALL USE RCP, PVC, PP, OR HDPE PIPES FOR THE MAIN LINES, BUT SHALL NOTIFY THE JURISDICTIONAL UTILITY PROVIDER AND THE ENGINEER, PRIOR TO INSTALLATION, FOR APPROVAL. REGARDLESS OF PIPE MATERIAL, ALL STORM SEWER SHALL UTILIZE WATER-TIGHT JOINTS.
- 7. FOR ALL NON-CONCENTRIC MANHOLES, MANHOLE RINGS/COVERS AND STEPS LIDS SHALL BE ROTATED AS SHOWN IN PLAN VIEW.
- 8. ALL TYPE C & D INLETS SHALL HAVE CLOSE MESH GRATES.
- 9. ALL LATERAL PIPE-TO-PIPE CONNECTIONS SHALL BE MADE USING KOR-N-TEE CONNECTORS OR ENGINEER APPROVED EQUIVALENT.
- 10. CONTRACTOR SHALL ADJUST ALL EXISTING RIM ELEVATIONS TO MATCH THE
- 11. CONTRACTOR SHALL MODIFY INLET BASES AS NEEDED IN ORDER TO ENSURE ALL STORM PIPES CONNECT PROPERLY TO THE INLET. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY ENGINEER, OWNER, AND CITY/COUNTY PRIOR TO INSTALLATION.
- 12. CONTRACTOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS, DESIGNED BY A LICENSED ENGINEER. DETAILING THE STRUCTURAL DESIGN OF ALL POND IMPROVEMENTS (FOREBAY, ENERGY DISSIPATING BAFFLES, OUTLET STRUCTURE, TO INSTALLATION.
- 13. ANY SUBSURFACE DETENTION AND/OR WATER QUALITY SYSTEM DESIGNS SHOWN ON THESE PLANS (IF APPLICABLE) ARE SPECIFICALLY LIMITED TO ELEVATIONS, GRADES AND STORMWATER DETENTION AND/OR WATER QUALITY DESIGN VOLUMES AND RELEASE RATES. THE DESIGN AND PROFESSIONAL ENGINEER'S SEAL SPECIFICALLY EXCLUDES STRUCTURAL DESIGN (INCLUDING, BUT NOT LIMITED TO, BUOYANCY CALCULATIONS AND CONSTRUCTION, TRAFFIC, OR OTHER LOADING), DEWATERING, EXCAVATION, SHORING, AND MATERIALS AND BACKFIL SPECIFICATIONS. IF THE PROPOSED SYSTEM UTILIZES A PROPRIETARY AND/OR PRE-MANUFACTURED DETENTION AND/OR WATER QUALITY SYSTEM, THE OWNER OR CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED SYSTEM DESIGN, CALCULATIONS, MATERIALS AND BACKFILL SPECIFICATIONS WITH THE UNDERGROUND DETENTION AND/OR WATER QUALITY SYSTEM MANUFACTURER AND/OR SUPPLIER. CONSTRUCTION OBSERVATION BY THE MANUFACTURER'S CONSTRUCTION AND ANY DEFICIENCIES OF THE INSTALLATION IDENTIFIED BY T
- 14. EXISTING MANHOLES MAY NEED TO BE REMOVED AND REPLACED PER DIRECTION FROM THE CITY OF LONE TREE INNSPECTOR DEPENDING ON THE CONDITION.

CITY OF LONE TREE ACCEPTANCE BLOCK

THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR TEMPORARY EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.

DEVELOPMENT SERVICES DEPARTMENT

Call before you dig.

	•			ISSUE D)ATE: 12-23-2022
40		40	20	DATE	REVISION COMMENTS
40	<u> </u>	40	80	01-27-2023	PER CITY COMMENTS
	00015 41 401			03-17-2023	ISSUED FOR CONSTRUCTION
SCALE: 1" = 40'					
DEGIGNED	DV: IME				
DESIGNED BY: LME CHECKED BY: JDO					
	STECKED DT: 000				

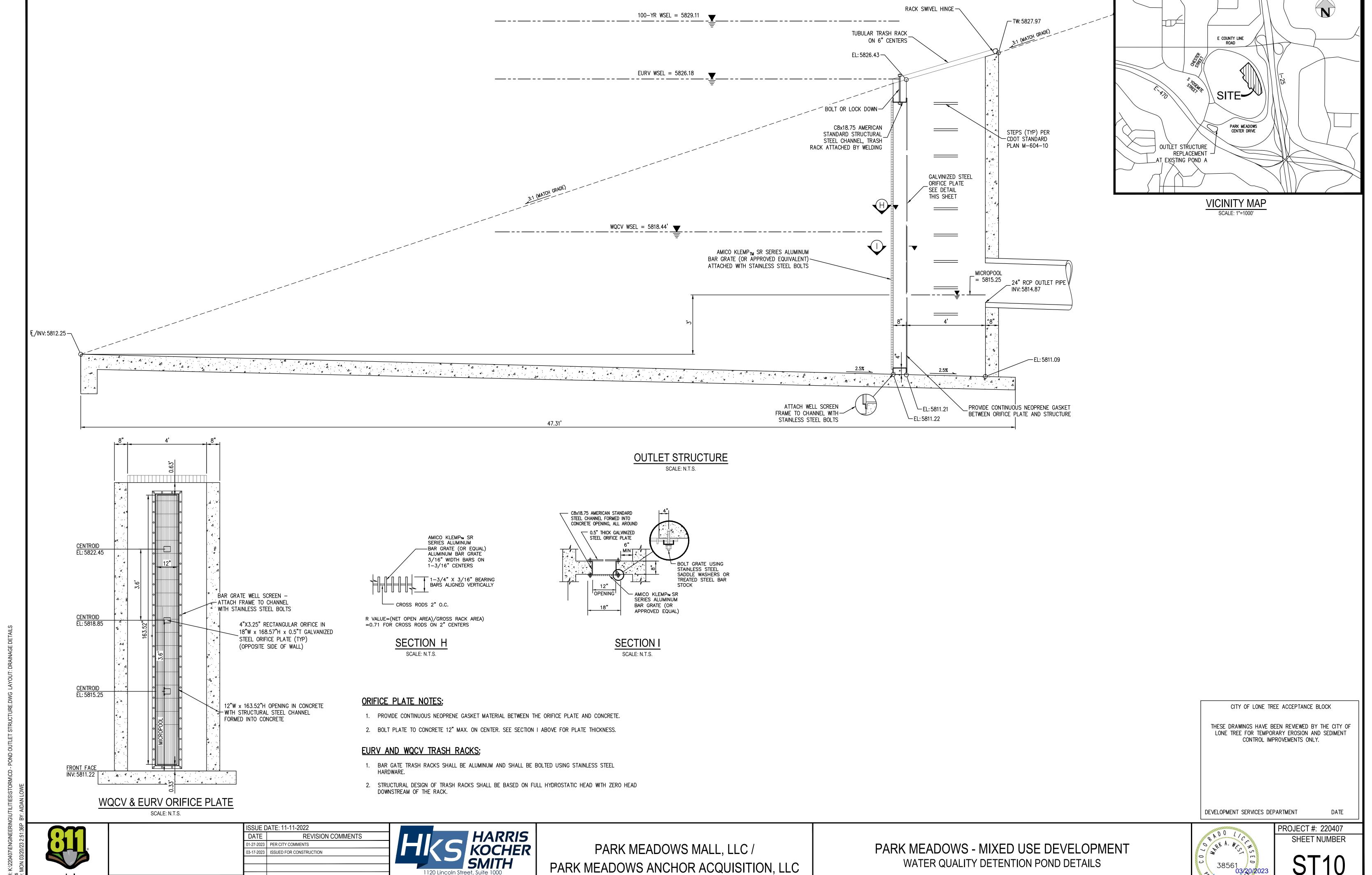


PARK MEADOWS MALL, LLC / PARK MEADOWS ANCHOR ACQUISITION, LLC PARK MEADOWS - MIXED USE DEVELOPMENT STORM LINE RD P&P



PROJECT #: 220407 SHEET NUMBER

9 OF 15



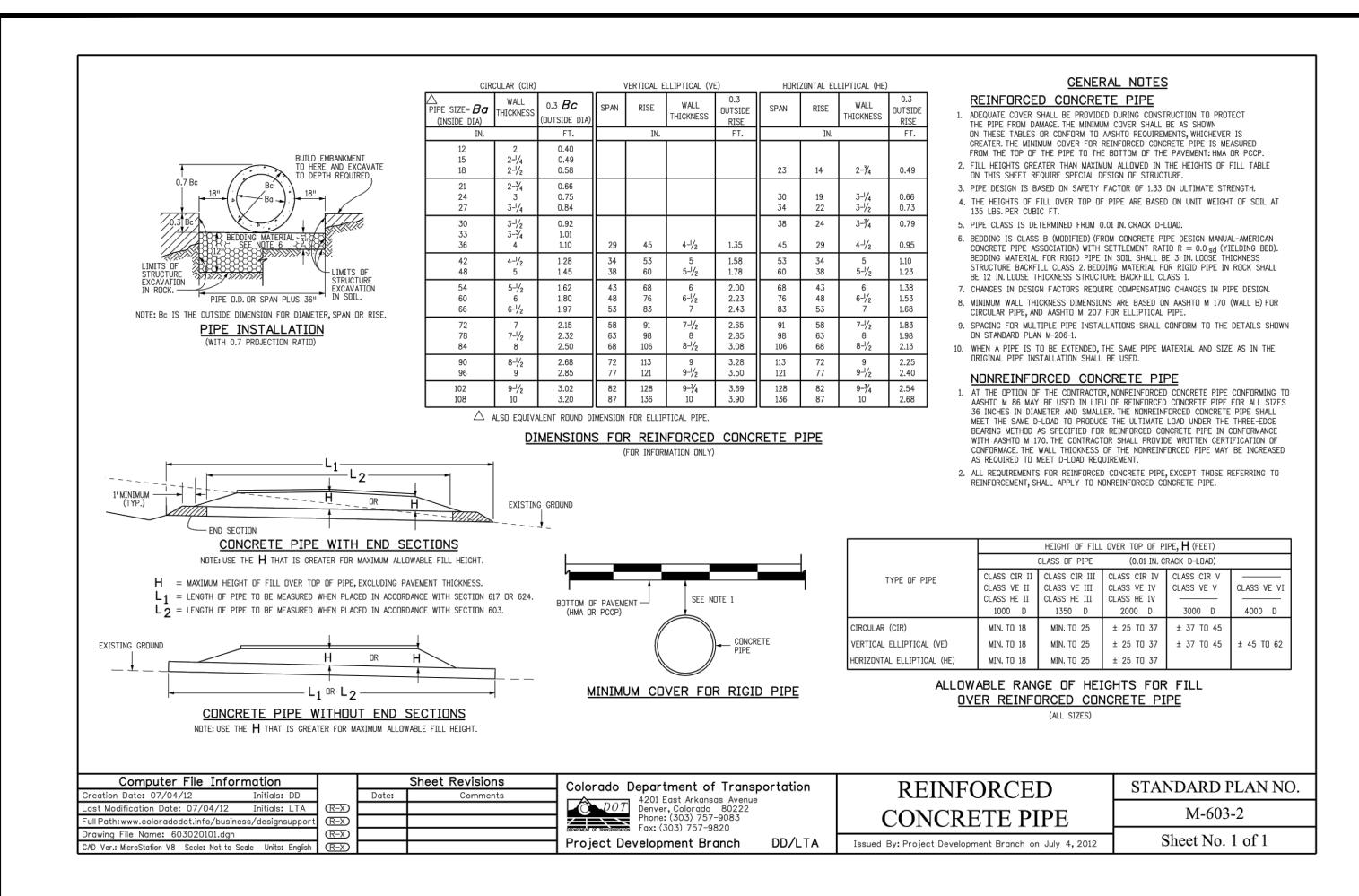
Denver, Colorado 80203

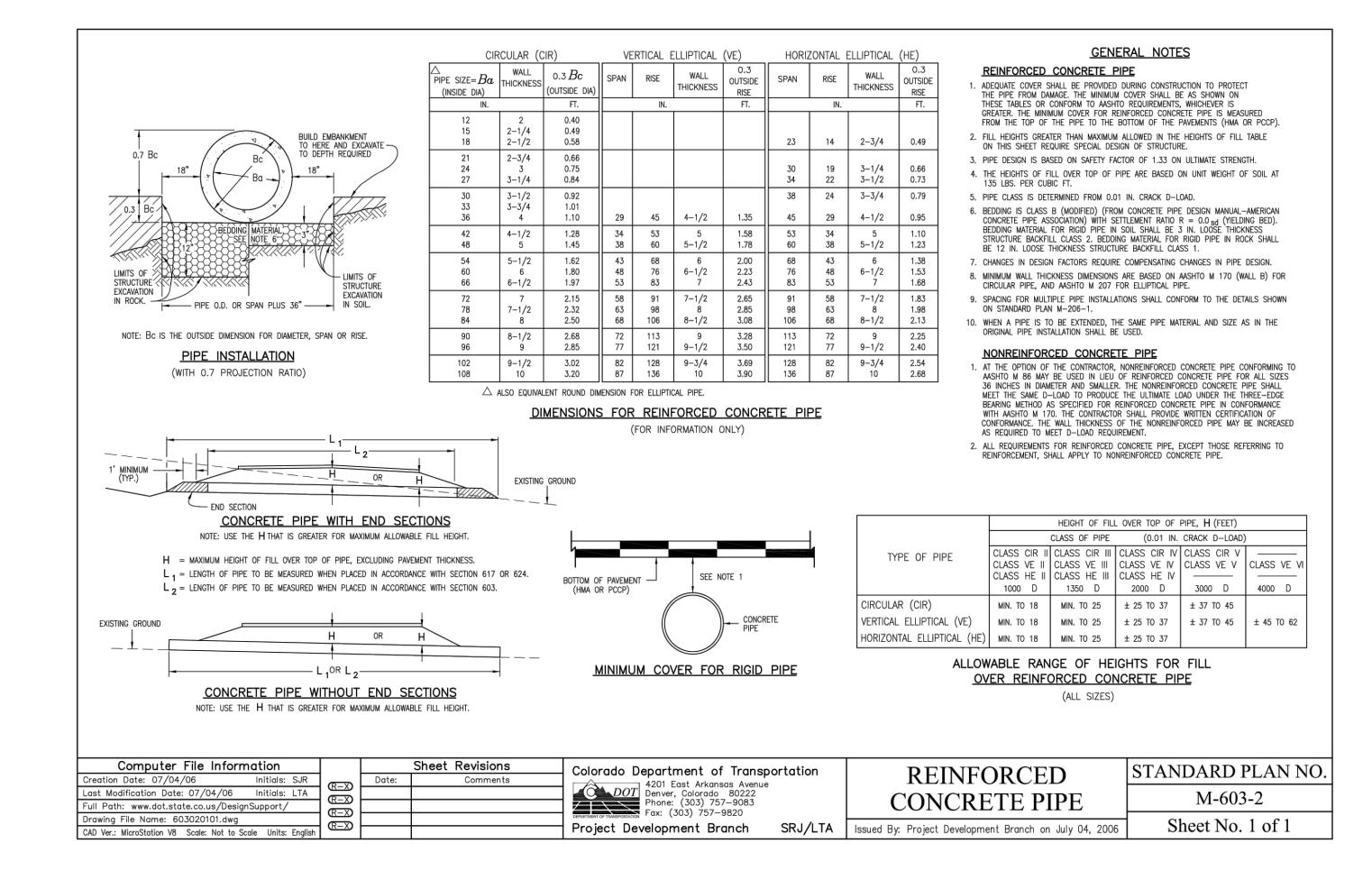
P: 303.623.6300 F: 303.623.6311

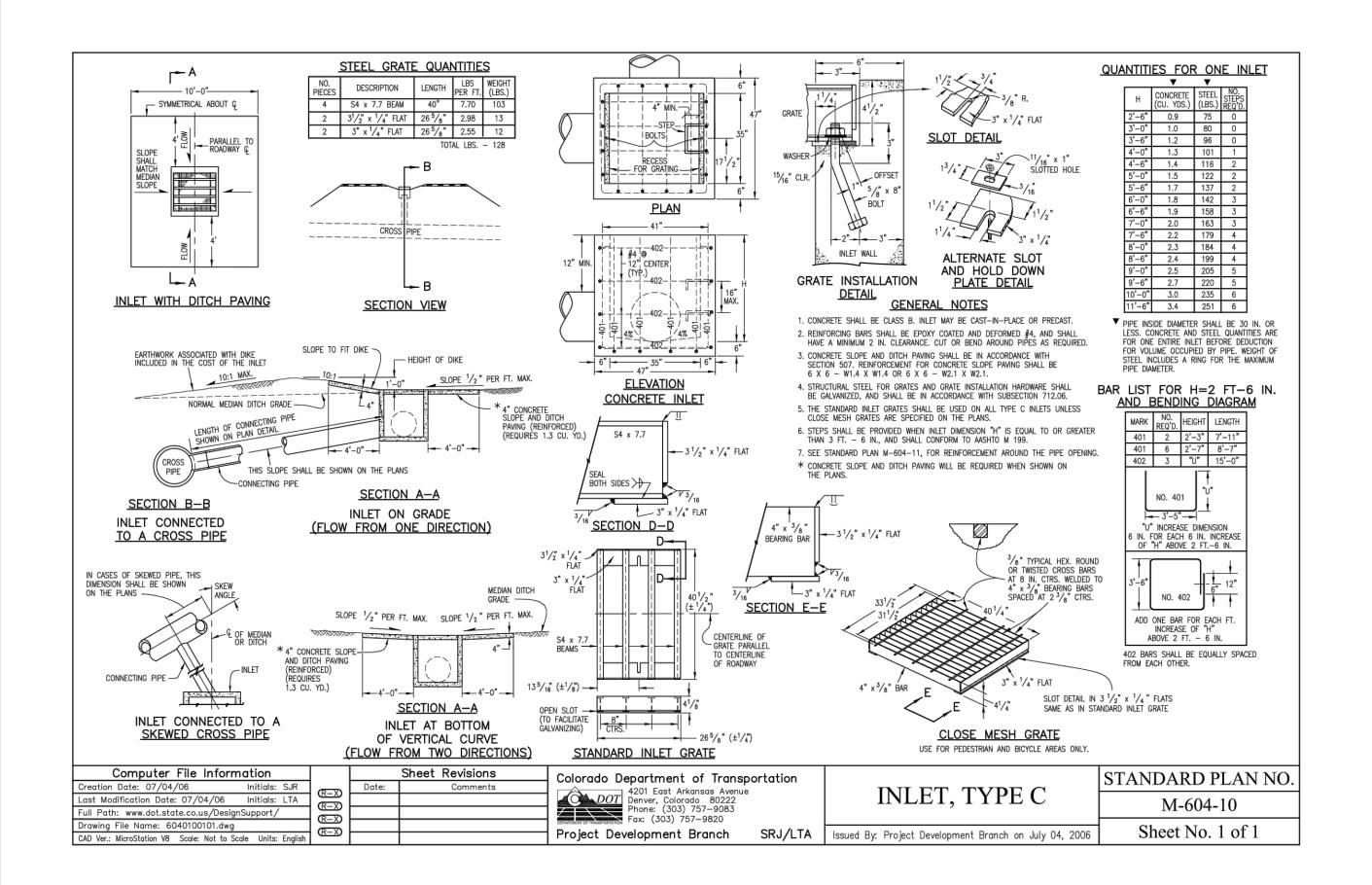
HarrisKocherSmith.com

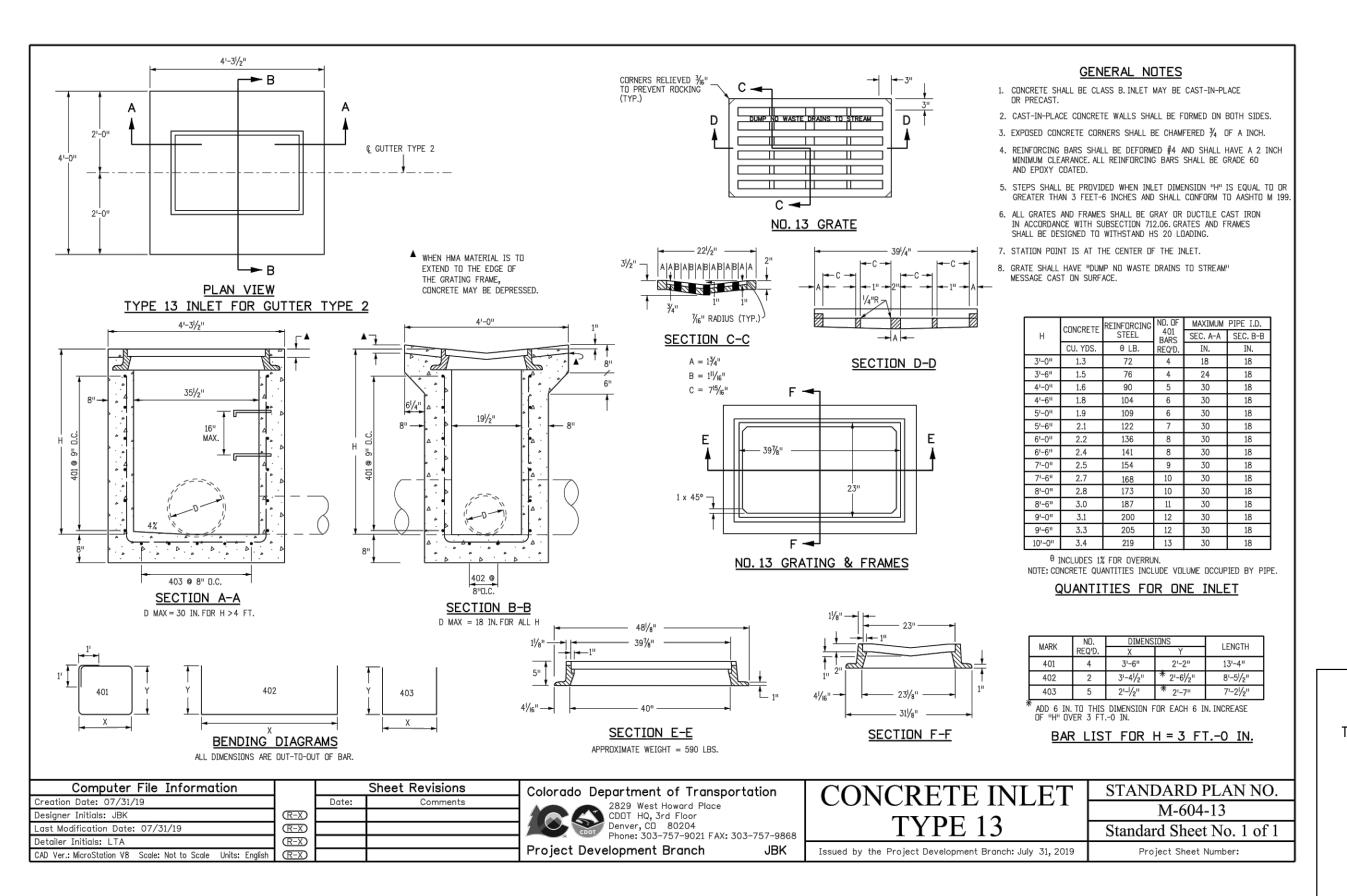
DESIGNED BY: LME CHECKED BY: JDO DRAWN BY: LME

Call before you dig.









CITY OF LONE TREE ACCEPTANCE BLOCK

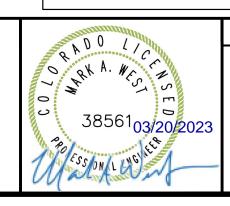
THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR TEMPORARY EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.

DEVELOPMENT SERVICES DEPARTMENT

SSUE DATE: 11-11-2022 **REVISION COMMENTS** -27-2023 PER CITY COMMENTS 3-17-2023 ISSUED FOR CONSTRUCTION Denver, Colorado 80203 DESIGNED BY: LME CHECKED BY: JDO P: 303.623.6300 F: 303.623.6311

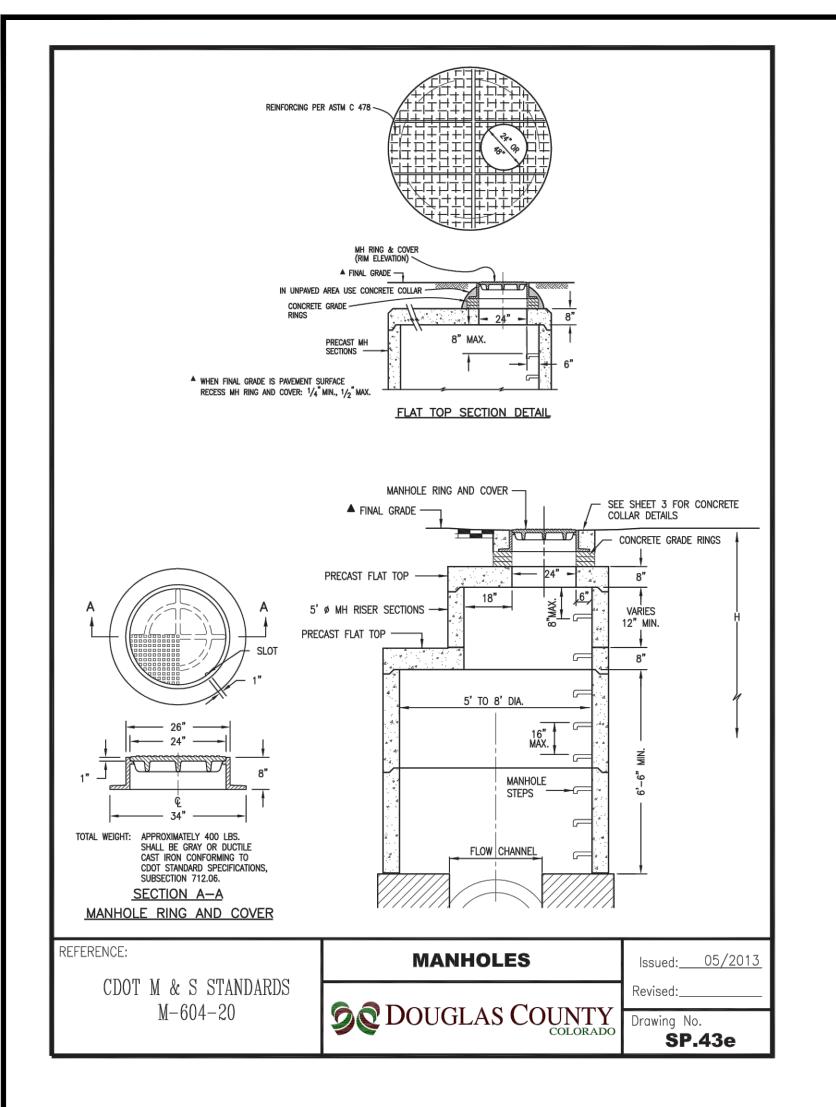
HARRIS KOCHER SMITH

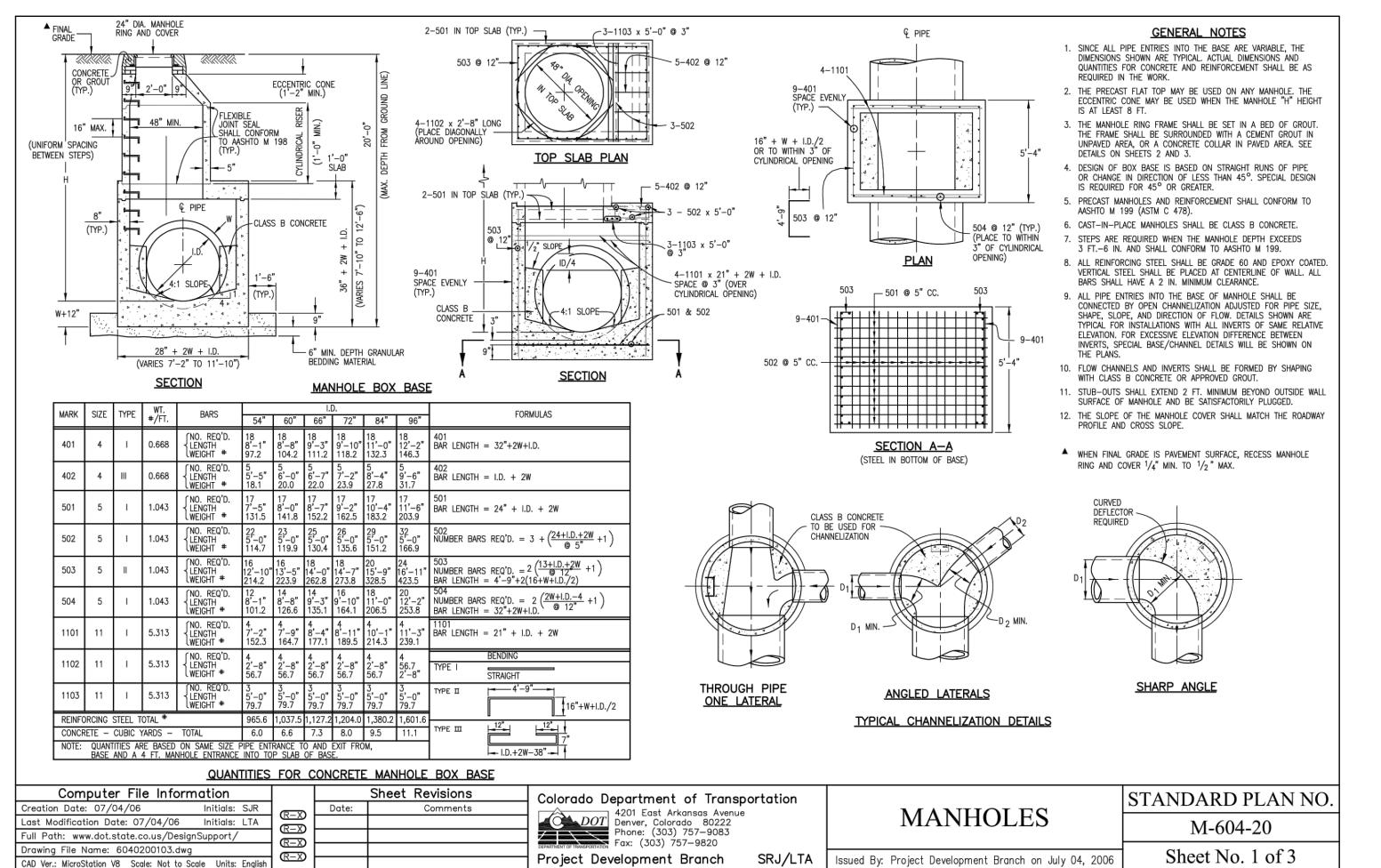
PARK MEADOWS MALL, LLC / PARK MEADOWS ANCHOR ACQUISITION, LLC PARK MEADOWS - MIXED USE DEVELOPMENT STORM SEWER DETAILS

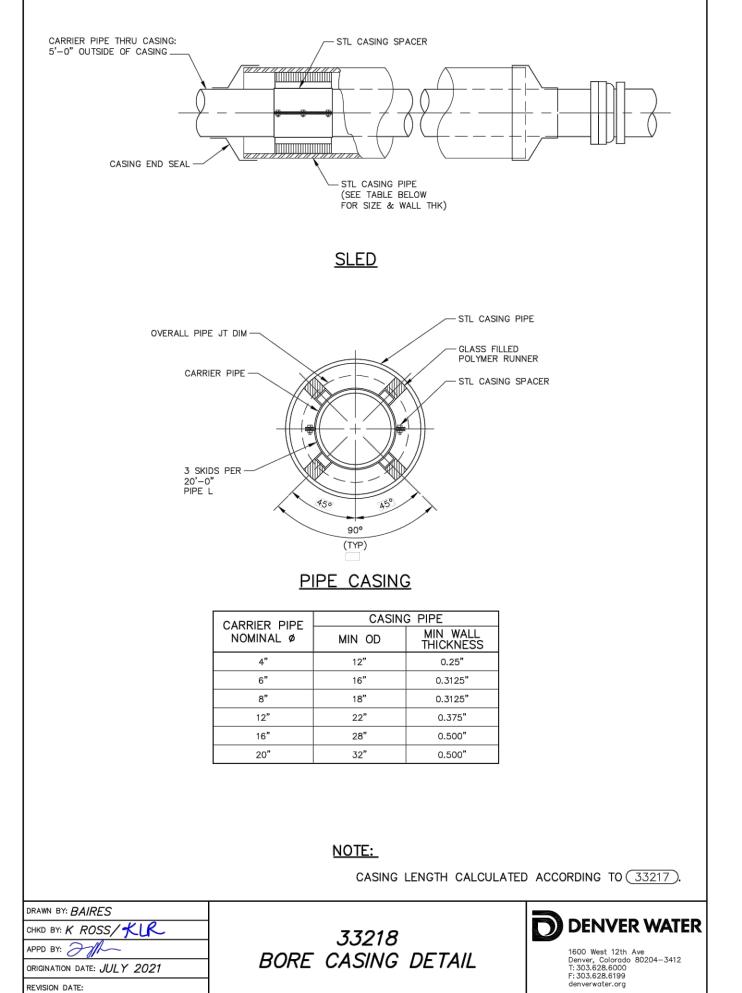


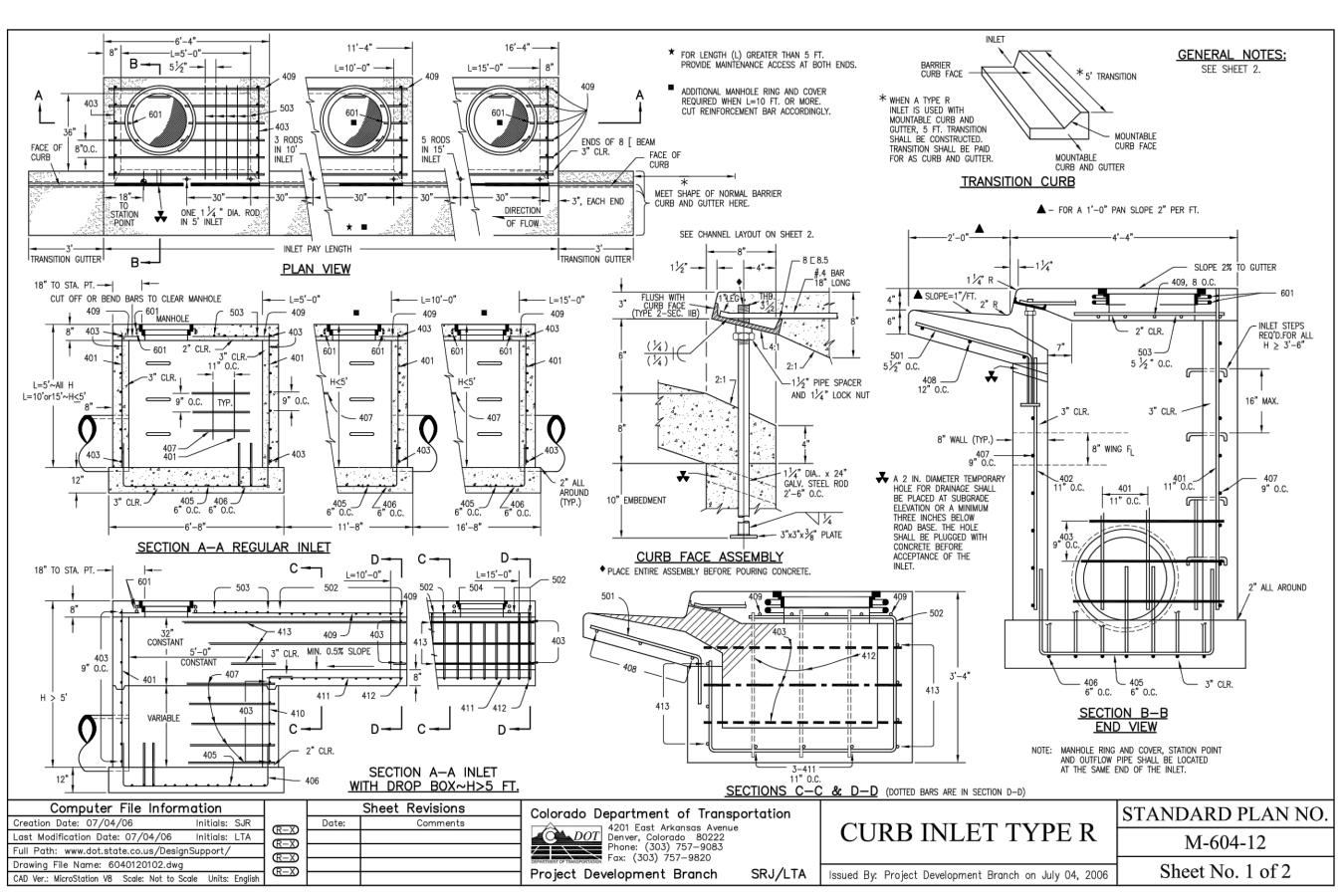
PROJECT #: 220407 SHEET NUMBER

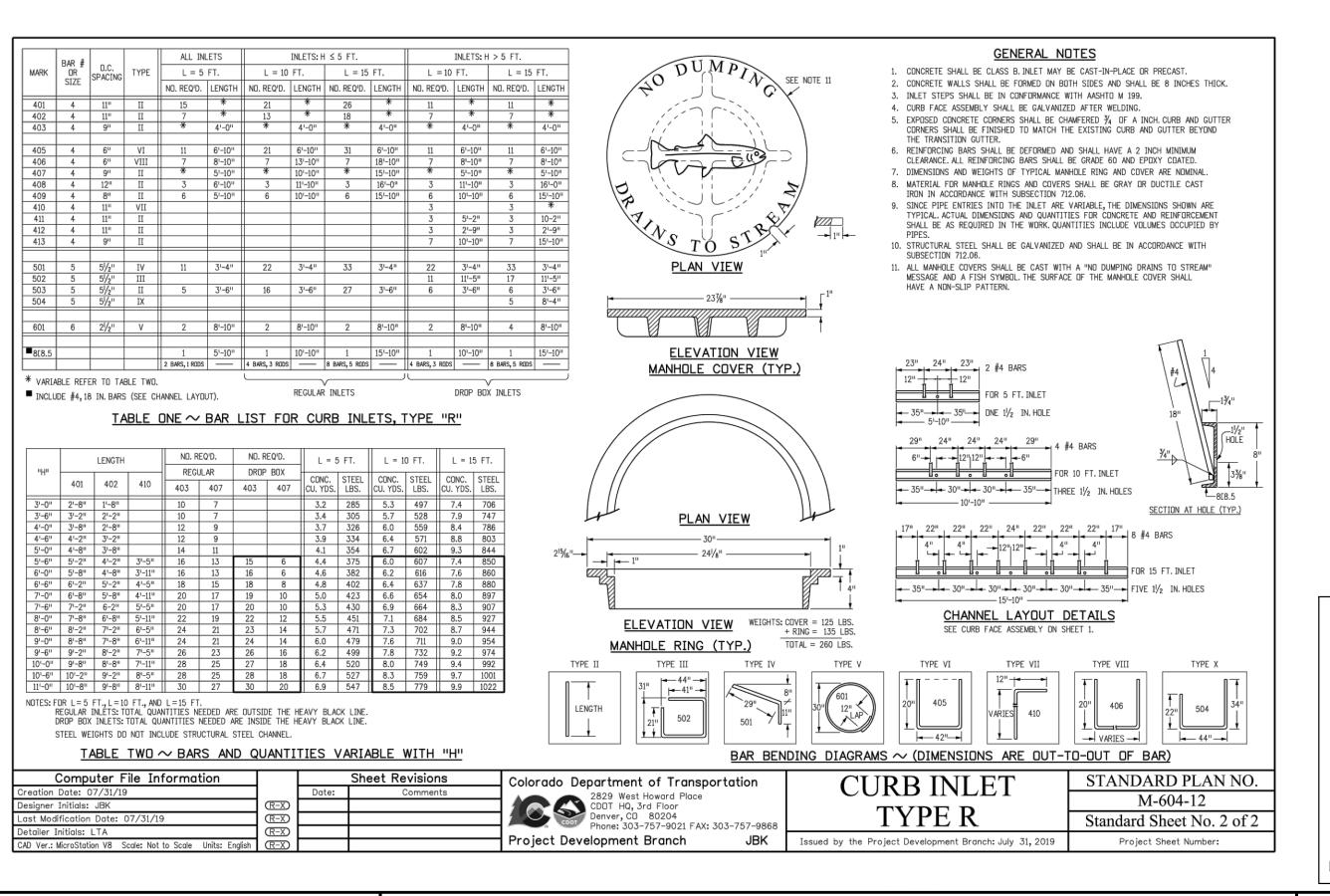
11 OF 15











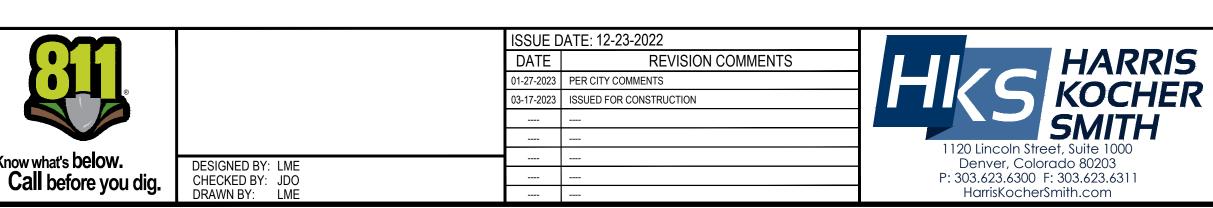




CITY OF LONE TREE ACCEPTANCE BLOCK

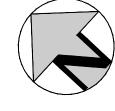
THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF

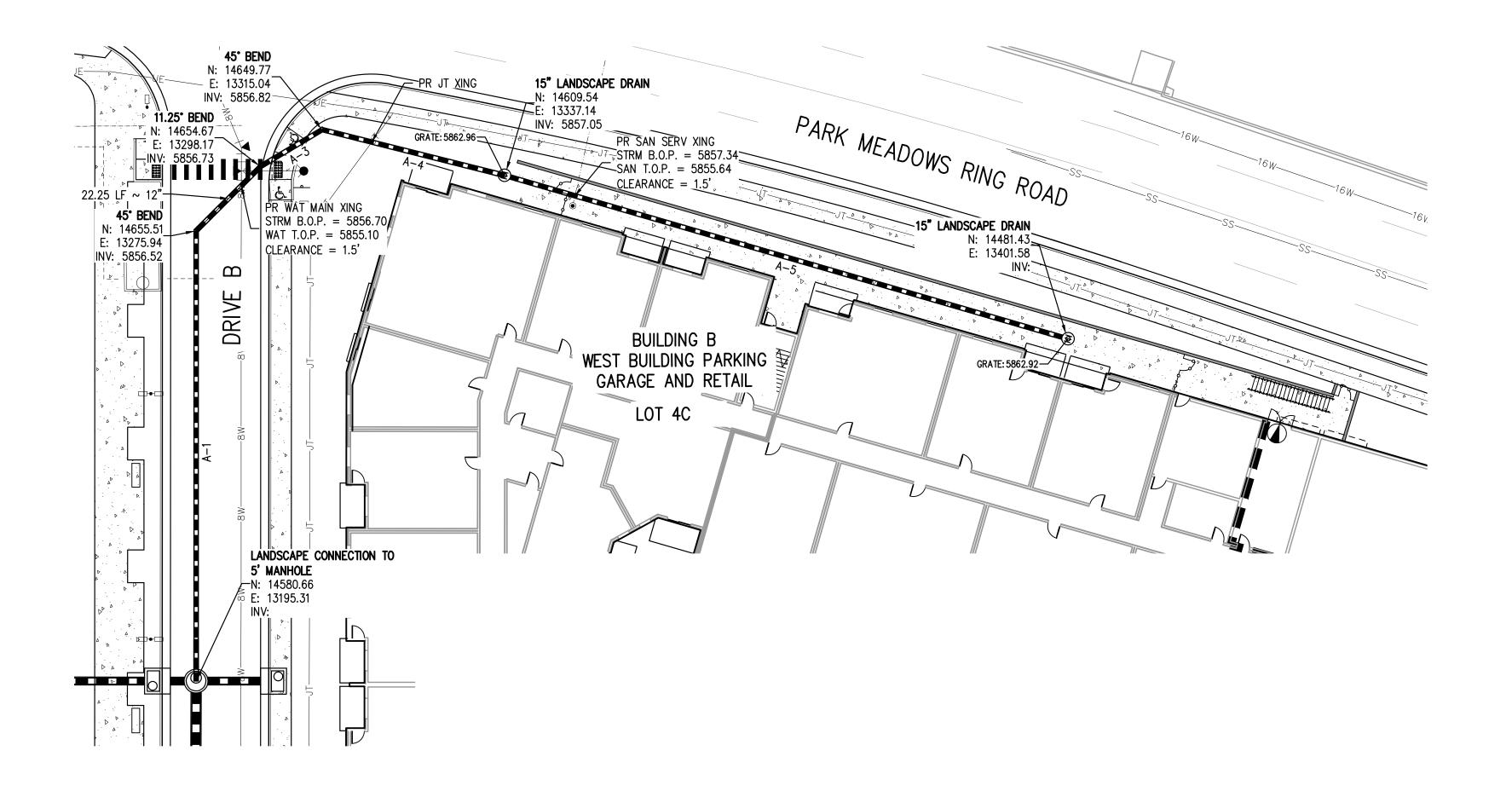
LONE TREE FOR TEMPORARY EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.



PARK MEADOWS MALL, LLC / PARK MEADOWS ANCHOR ACQUISITION, LLC

KEY MAP SCALE: 1"=400'





PIPE TABLE						
NAME	SIZE	LENGTH	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT	
A-1	12"	110.01'	0.50%	5856.62	5856.07	
A-2	12"	22.25'	0.50%	5856.73	5856.62	

PIPE TABLE					
NAME	SIZE	LENGTH	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT
A-1	12"	110.01'	0.50%	5856.62	5856.07
A-2	12"	22.25'	0.50%	5856.73	5856.62
A-3	12"	17.57'	0.50%	5856.82	5856.73
A-4	12"	45.90'	0.50%	5857.05	5856.82

A-5 12" 143.41' 0.50% 5857.97

ISSUE DATE: 12-23-2022 REVISION COMMENTS -27-2023 PER CITY COMMENTS 03-17-2023 ISSUED FOR CONSTRUCTION SCALE: 1" = 20' 1120 Lincoln Street, Suite 1000 DESIGNED BY: LME CHECKED BY: JDO DRAWN BY: LME Denver, Colorado 80203 Call before you dig. P: 303.623.6300 F: 303.623.6311 HarrisKocherSmith.com

HARRIS KOCHER SMITH

PARK MEADOWS MALL, LLC / PARK MEADOWS ANCHOR ACQUISITION, LLC

PARK MEADOWS - MIXED USE DEVELOPMENT LANDSCAPE DRAIN PLAN

DEVELOPMENT SERVICES DEPARTMENT

GENERAL LANDSCAPE DRAIN NOTES:

OTHERWISE NOTED ON THE PLAN.

OTHERWISE NOTED ON THE PLAN.

MANUFACTURER'S SPECIFICATIONS.

1. CONTRACTOR SHALL USE 90-DEGREE WYES AT PERPENDICULAR JOINTS WHERE

2. CONTRACTOR SHALL USE CONCENTRIC REDUCERS UNLESS OTHERWISE NOTED

3. CONTRACTOR SHALL USE STANDARD PVC FITTINGS WHEN POSSIBLE UNLESS

4. ALL LANDSCAPE DRAINS PIPES SHALL BE WATERTIGHT PVC, RIGID HDPE WITH

6. LANDSCAPE DRAIN GRATES IN LANDSCAPED AREAS SHALL BE NYLOPLAST 12-INCH

7. LANDSCAPE DRAIN GRATES IN PAVEMENT SHALL BE PEDESTRIAN-FRIENDLY, 4-INCH

SLOTTED GRATE OR ENGINEER-APPROVED EQUIVALENT. TRENCH DRAINS SHALL HAVE AN INVERT SLOPE OF AT LEAST 0.50%. TRENCH DRAIN INVERT SHALL MATCH THE CONNECTING LANDSCAPE DRAIN PIPE INVERT. FOR GRATE ELEVATIONS SEE

9. LANDSCAPE DRAINS LOCATED AT THE END OF A LINE SHALL BE INSTALLED WITH A RISER AND 90 DEGREE BEND MATCHING THE SIZE OF THE PIPE CONNECTING TO

10. LANDSCAPE DRAINS CONNECTING TO ROOF DOWNSPOUTS SHALL BE INSTALLED WITH A RISER AND 90 DEGREE BEND MATCHING THE SIZE OF THE PIPE CONNECTING TO THE ROOF DRAIN AS CALLED OUT IN THE LANDSCAPE DRAIN

11. INLINE LANDSCAPE DRAINS SHALL BE INSTALLED WITH A RISER AND TEE FITTING MATCHING THE SIZE OF THE MAIN LINE CONNECTION AS CALLED OUT IN THE LANDSCAPE DRAIN TABLE. IF TWO OR MORE PIPE SIZES INTERSECT AT THE INLINE DRAIN CONNECTION THEN THE LARGER PIPE SIZE SHALL DICTATE THE SIZE OF THE

12. AT ANY LOCATION WHERE MORE THAN TWO LANDSCAPE DRAIN PIPES INTERSECT AND CANNOT BE CONNECTED WITH STANDARD FITTINGS, A DRAIN BASIN SHALL BE

INSTALLED. THE DRAIN BASIN SHALL BE SIZED ACCORDING TO THE

13. FOR GRATE ELEVATIONS SEE DETAILED GRADING PLAN SHEET(S).

5. ALL LANDSCAPE DRAIN PIPES SHALL BE A MINIMUM OF 2-FT DEEP (UNLESS

DOME STYLE GRATES/COVERS, OR ENGINEER-APPROVED EQUIVALENT.

ROUND BRASS GRATES OR ENGINEER-APPROVED EQUIVALENT UNLESS

8. TRENCH DRAINS SHALL BE ACO KLASSIC KS100S WITH TYPE 461Q DUCTILE IRON

SMOOTH INNER WALL, OR ENGINEER APPROVED EQUIVALENT.

OTHERWISE NOTED) AND SHALL HAVE A 0.50% MINIMUM SLOPE.

THE DRAIN AS CALLED OUT IN THE LANDSCAPE DRAIN TABLE.

PROJECT #: 220407 SHEET NUMBER

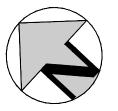
13 OF 15

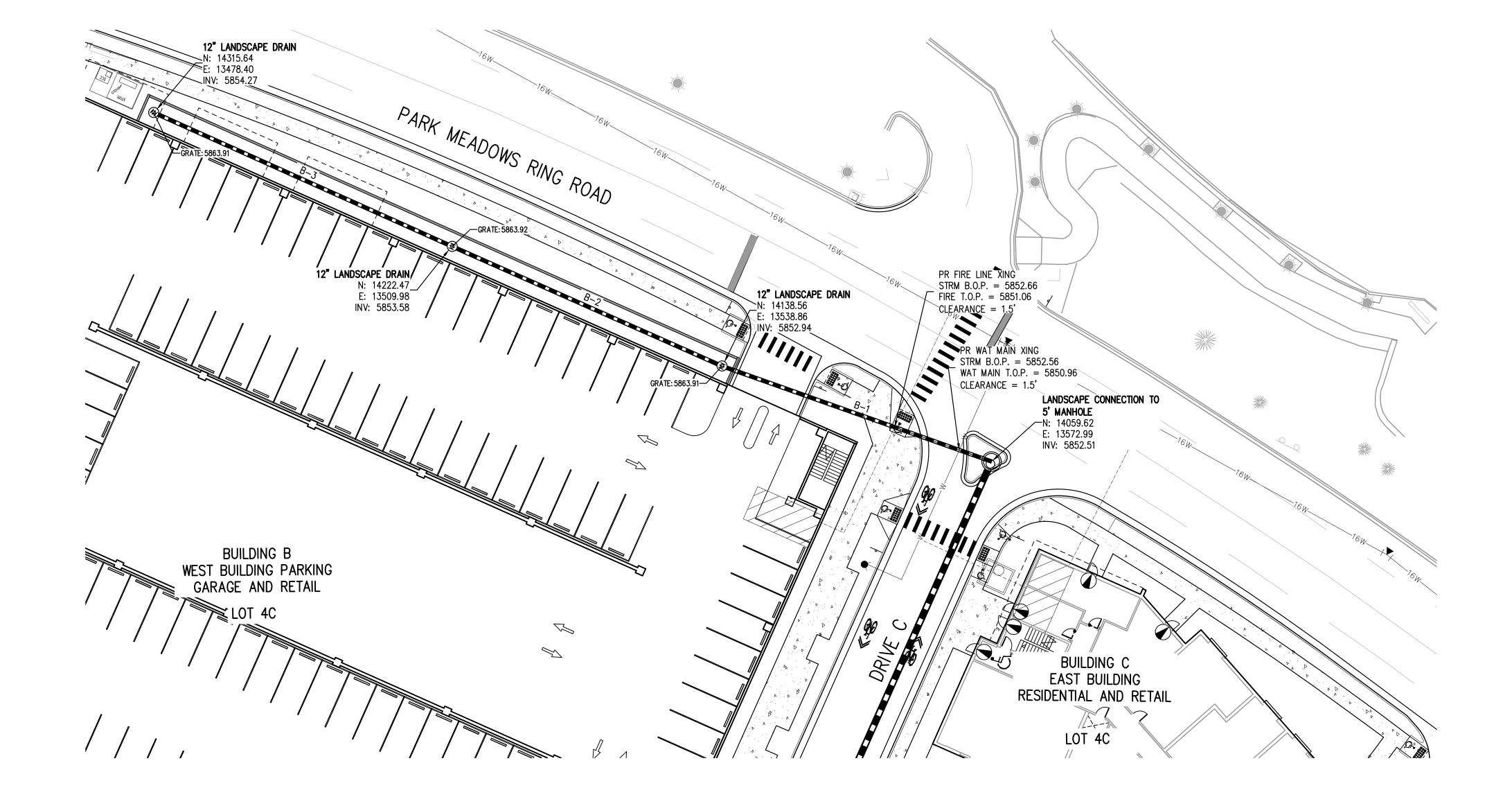
DATE

CITY OF LONE TREE ACCEPTANCE BLOCK

THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR TEMPORARY EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.







(GENERAL LANDSCAPE DRAIN NOTES:
1.	. CONTRACTOR SHALL USE 90-DEGREE WYES AT PERPENDICULAR JOINTS \

- CONTRACTOR SHALL USE CONCENTRIC REDUCERS UNLESS OTHERWISE NOTED.
- WHERE ECCENTRIC REDUCERS ARE USED THE INVERTS MUST MATCH.
- CONTRACTOR SHALL USE STANDARD PVC FITTINGS WHEN POSSIBLE UNLESS OTHERWISE NOTED ON THE PLAN.
 ALL LANDSCAPE DRAINS PIPES SHALL BE WATERTIGHT PVC, RIGID HDPE WITH
- SMOOTH INNER WALL, OR ENGINEER APPROVED EQUIVALENT.

 5. ALL LANDSCAPE DRAIN PIPES SHALL BE A MINIMUM OF 2-FT DEEP (UNLESS
- OTHERWISE NOTED) AND SHALL HAVE A 0.50% MINIMUM SLOPE.
- 6. LANDSCAPE DRAIN GRATES IN LANDSCAPED AREAS SHALL BE NYLOPLAST 12-INCH DOME STYLE GRATES/COVERS, OR ENGINEER-APPROVED EQUIVALENT.
- 7. LANDSCAPE DRAIN GRATES IN PAVEMENT SHALL BE PEDESTRIAN-FRIENDLY, 4-INCH ROUND BRASS GRATES OR ENGINEER-APPROVED EQUIVALENT UNLESS OTHERWISE NOTED ON THE PLAN.
- 8. TRENCH DRAINS SHALL BE ACO KLASSIC KS100S WITH TYPE 461Q DUCTILE IRON SLOTTED GRATE OR ENGINEER-APPROVED EQUIVALENT. TRENCH DRAINS SHALL HAVE AN INVERT SLOPE OF AT LEAST 0.50%. TRENCH DRAIN INVERT SHALL MATCH THE CONNECTING LANDSCAPE DRAIN PIPE INVERT. FOR GRATE ELEVATIONS SEE
- 9. LANDSCAPE DRAINS LOCATED AT THE END OF A LINE SHALL BE INSTALLED WITH A RISER AND 90 DEGREE BEND MATCHING THE SIZE OF THE PIPE CONNECTING TO THE DRAIN AS CALLED OUT IN THE LANDSCAPE DRAIN TABLE.
- 10. LANDSCAPE DRAINS CONNECTING TO ROOF DOWNSPOUTS SHALL BE INSTALLED WITH A RISER AND 90 DEGREE BEND MATCHING THE SIZE OF THE PIPE CONNECTING TO THE ROOF DRAIN AS CALLED OUT IN THE LANDSCAPE DRAIN
- TABLE.

 11. INLINE LANDSCAPE DRAINS SHALL BE INSTALLED WITH A RISER AND TEE FITTING MATCHING THE SIZE OF THE MAIN LINE CONNECTION AS CALLED OUT IN THE LANDSCAPE DRAIN TABLE. IF TWO OR MORE PIPE SIZES INTERSECT AT THE INLINE DRAIN CONNECTION THEN THE LARGER PIPE SIZE SHALL DICTATE THE SIZE OF THE
- 12. AT ANY LOCATION WHERE MORE THAN TWO LANDSCAPE DRAIN PIPES INTERSECT AND CANNOT BE CONNECTED WITH STANDARD FITTINGS, A DRAIN BASIN SHALL BE INSTALLED. THE DRAIN BASIN SHALL BE SIZED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- 13. FOR GRATE ELEVATIONS SEE DETAILED GRADING PLAN SHEET(S).

CITY OF LONE TREE ACCEPTANCE BLOCK

THESE DRAWINGS HAVE BEEN REVIEWED BY THE CITY OF LONE TREE FOR TEMPORARY EROSION AND SEDIMENT CONTROL IMPROVEMENTS ONLY.

DEVELOPMENT SERVICES DEPARTMENT

DATE

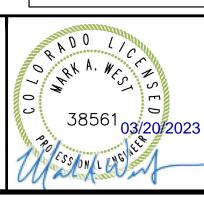
	PIPE TABLE					
NAME	SIZE	LENGTH	SLOPE	UPSTREAM INVERT	DOWNSTREAM INVERT	
B-1	12"	86.00'	0.50%	5852.94	5852.51	
B-2	12"	88.74'	0.50%	5853.58	5853.14	
B-3	12"	98.38'	0.50%	5854.27	5853.78	

| SCALE: 1" = 20' | SCALE: 1"



PARK MEADOWS MALL, LLC /
PARK MEADOWS ANCHOR ACQUISITION, LLC

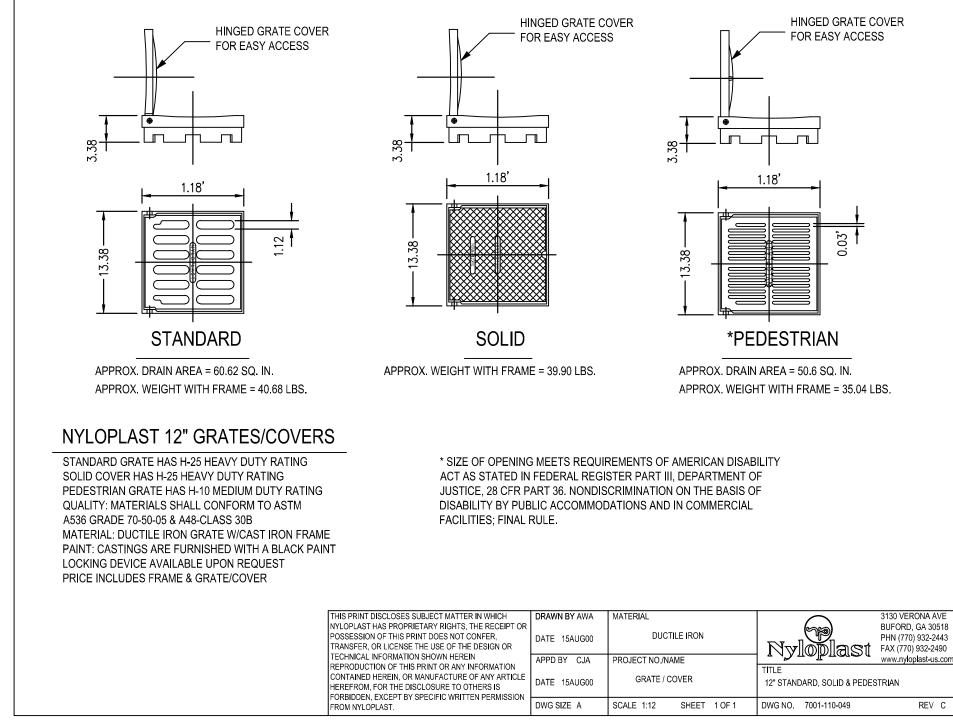
PARK MEADOWS - MIXED USE DEVELOPMENT LANDSCAPE DRAIN PLAN

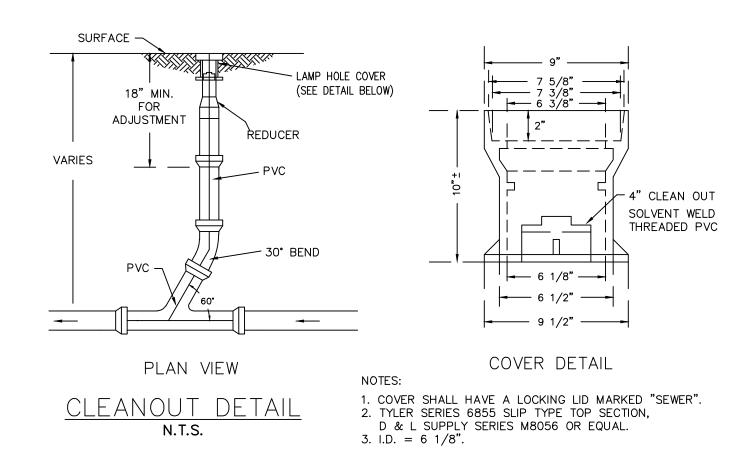


PROJECT #: 220407
SHEET NUMBER

ST14

14 OF 15





DUCTILE IRON GRATE

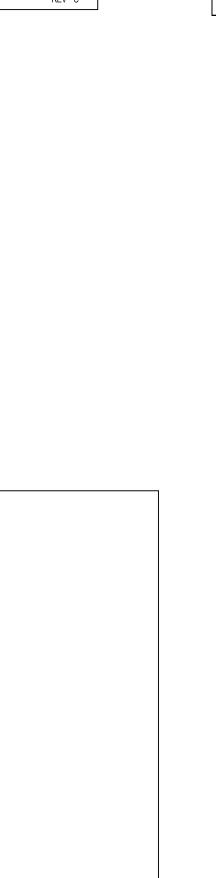
W/CAST IRON FRAME

GRATE EL-

6" OR 8"

INVERT OUT-

90-DEGREE BEND -



VARIOUS TYPES OF OUTLETS

ADS N-12

SDR-35 SEWER

RIBBED PVC

DATE 6-25-99

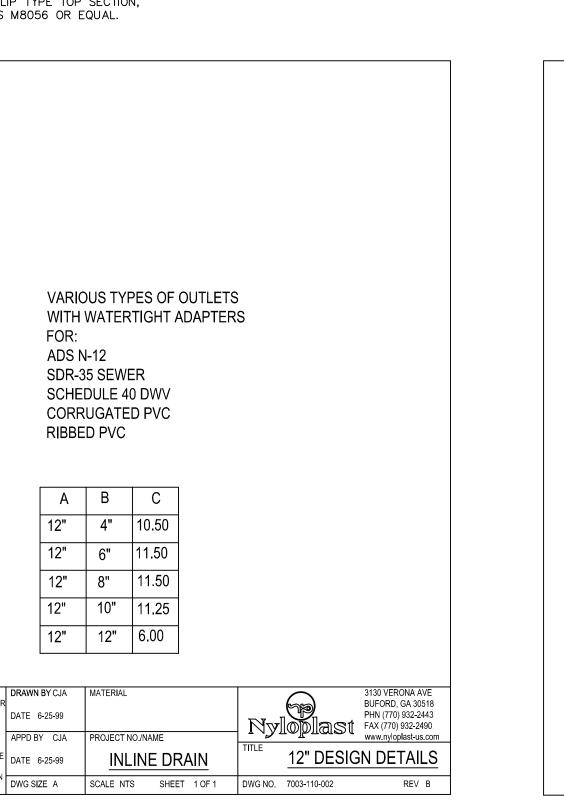
SCHEDULE 40 DWV

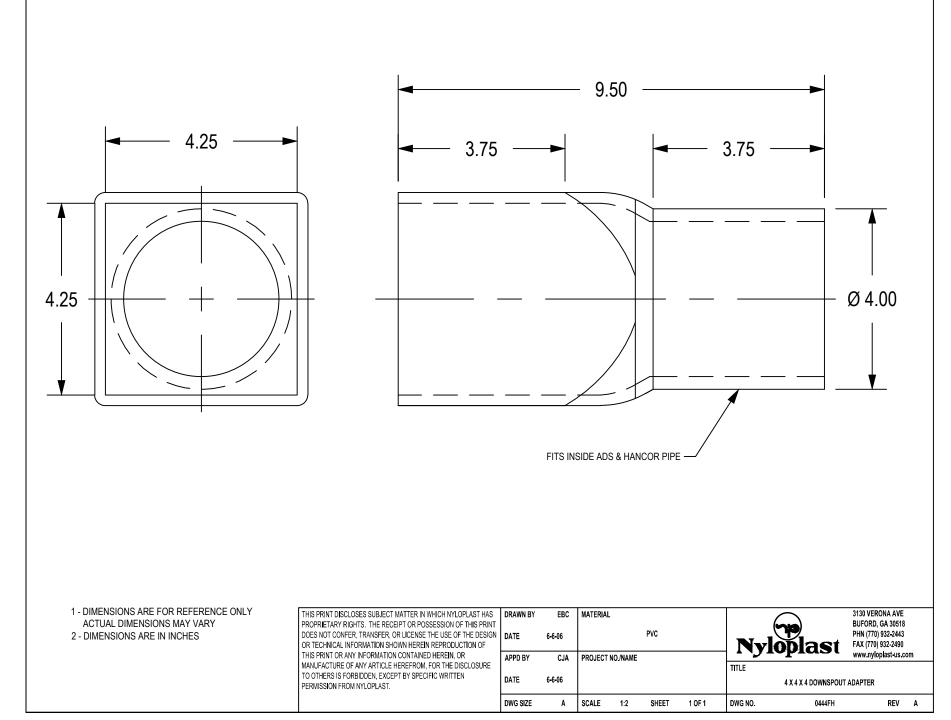
CORRUGATED PVC

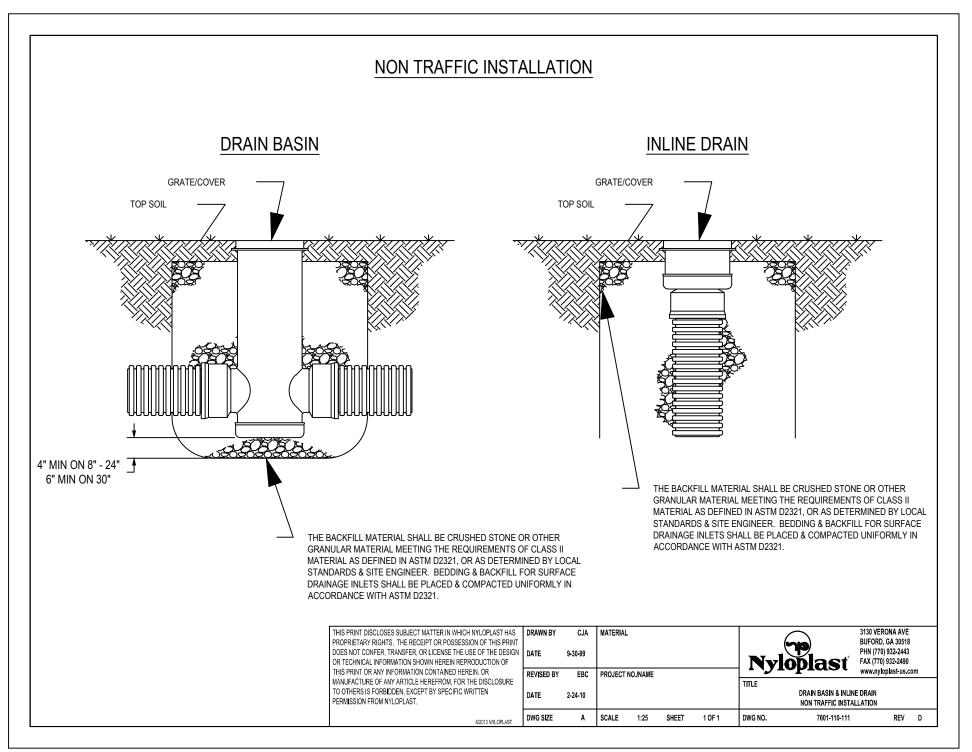
12X6

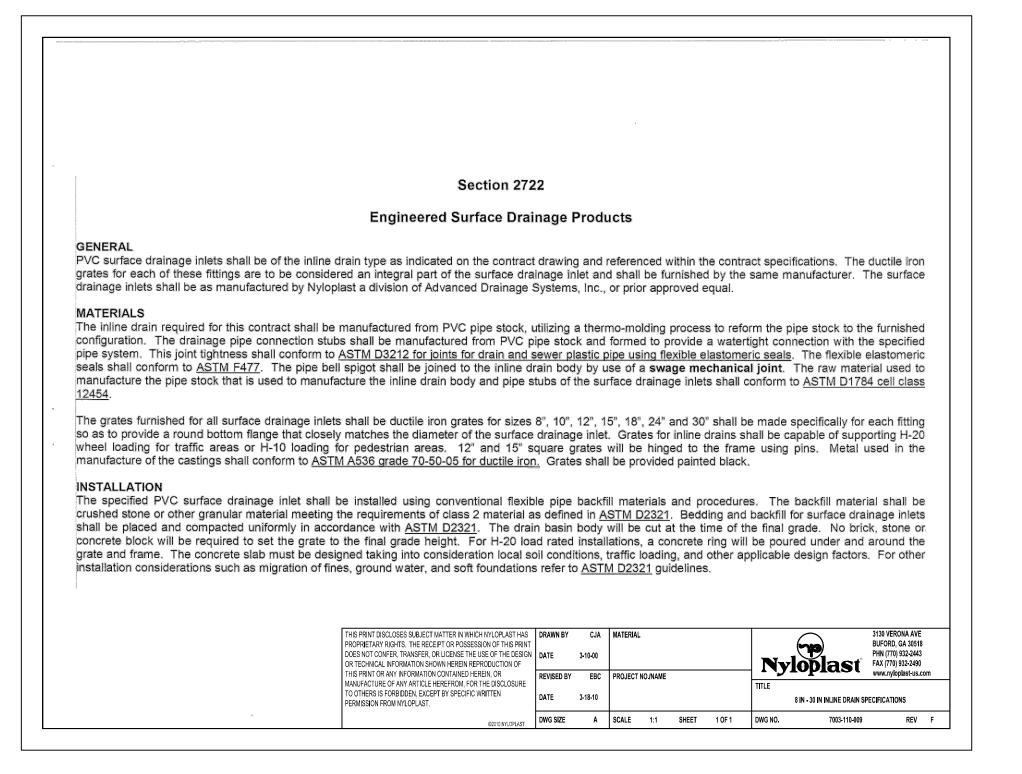
12X8 12X10

WITH WATERTIGHT ADAPTERS











SSUE DATE: 12-23-2022 **REVISION COMMENTS** -27-2023 PER CITY COMMENTS 3-17-2023 ISSUED FOR CONSTRUCTION DESIGNED BY: LME CHECKED BY: JDO DRAWN BY: LME

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR

OSSESSION OF THIS PRINT DOES NOT CONFER,

TRANSFER, OR LICENSE THE USE OF THE DESIGN OR

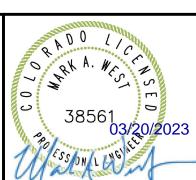
REPRODUCTION OF THIS PRINT OR ANY INFORMATION

FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE DATE 6-25-99



PARK MEADOWS MALL, LLC / PARK MEADOWS ANCHOR ACQUISITION, LLC PARK MEADOWS - MIXED USE DEVELOPMENT LANDSCAPE DRAIN DETAIL



PROJECT #: 220407 SHEET NUMBER 15 OF 15