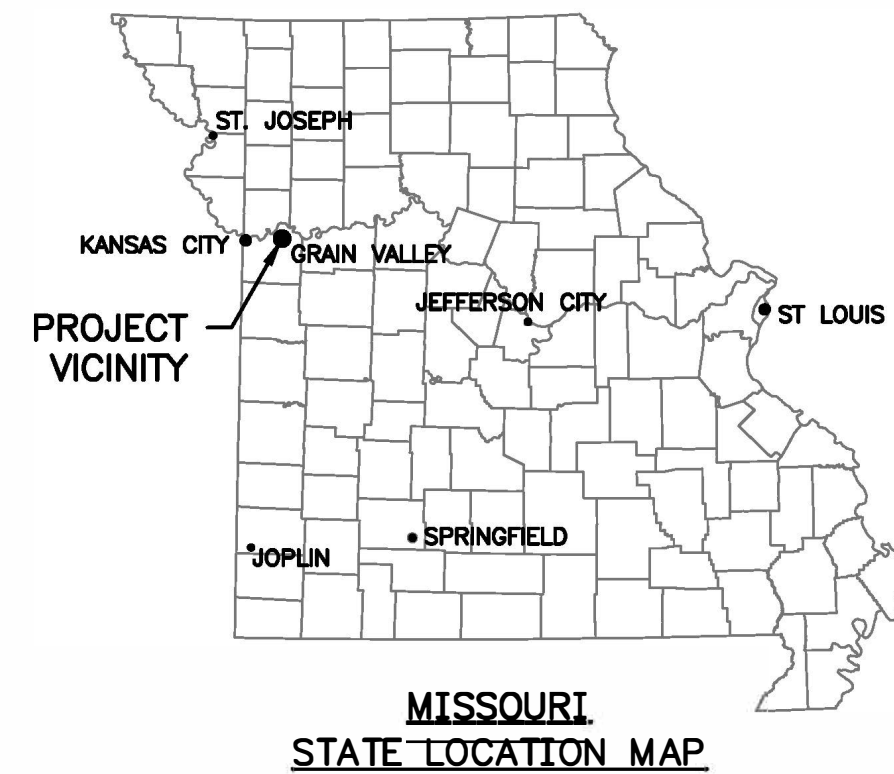


RYAN MEADOWS STORM WATER IMPROVEMENTS

GRAIN VALLEY, MISSOURI

0321006.03

2022



CALL OR CLICK 3 DAYS BEFORE YOU DIG!
1-800-DIG-RITE OR 811
 MISSOURI ONE CALL SYSTEM www.mo1call.com

ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER. THERE IS NO GUARANTEE ALL FACILITIES ARE SHOWN OR THAT THE LOCATION, DEPTH, AND SIZE OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION. COORDINATE NECESSARY RELOCATIONS WITH UTILITY COMPANIES.



LOCATION MAP

INDEX OF SHEETS

SHEET	TITLE
01	COVER AND LEGEND SHEET
02	PLAN/PROFILE AND GENERAL NOTES SHEET
03	DETAIL SHEET

UTILITY CONTACTS

PATRICK MARTIN
 PUBLIC WORKS SUPERVISOR
PMARTIN@CITYOFGRAINVALLEY.ORG
 816-847-6200

DICK TUTTLE, P.E.
 CITY ENGINEER
DTUTTLE@CITYOFGRAINVALLEY.ORG
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 600 NE COLBERN ROAD
 LEE'S SUMMIT, MO 64086
NATHAN JULIANA
 SENIOR TRAFFIC SPECIALIST
 O: 816-607-2185
 C: 816-835-5612
 F: 816-622-0440

WATER
TRI-COUNTY WATER AUTHORITY
 JOHN OVERSTREET
 GENERAL MANAGER
 28405 EAST BLUE VALLEY ROAD
 INDEPENDENCE, MO 64058
 816-796-4100 EXT. 204

JACKSON COUNTY PWSD 17
JASON HERMAN
 102 3RD STREET, PO BOX 256
 GRAIN VALLEY, MO 61029-0000

816-229-3838

ELECTRIC
EVERGY
 BLUESPRINGS CENTER
 1105 SE US-40 HWY
 BLUE SPRINGS, MO 64014
GARY JONES
 O: 816-220-5216
 C: 816-813-1988
GARY.JONES@KCPL.COM

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 LITHA RANDOLPH
LR2614@ATT.COM
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JB0311@ATT.COM
 O: 816-275-3850

RICK BRYAN
 AT&T CWO ENGINEERING
 O: 913-727-9809
 C: 913-669-4576
RB1697@ATT.COM
 RELOCATION WORK ORDER
 1-866-457-0777

CENTURY LINK
 1800-788-3500

COMCAST
 816-358-5444

SPIRE
 816-969-2200

LEGEND:

□	CONTROL POINT	⊕	BUSH
⊕	BENCHMARK	⊕	STUMP
—E—	UNDERGROUND ELECTRIC	⊕	DECIDUOUS TREE
⊕	UNDERGROUND ELECTRIC PEDESTAL	⊕	CONIFEROUS TREE
⊕	ELECTRICAL TRANSFORMER	—	TREE LINE
—G—	UNDERGROUND GAS	FP	FLAG POLE
⊕	GAS METER	GP	GATE POST
—FOC—	UNDERGROUND FIBER OPTIC CABLE	FP	FENCE POST
⊕	TELEPHONE PEDESTAL	—	CHAIN LINK FENCE
—TV—	UNDERGROUND TELEVISION	—	WOOD FENCE
⊕	CABLE TV PEDESTAL	—	GUARDRAIL
⊕	STORM SEWER MANHOLE	—9.39—	EXISTING GRADE 1' CONTOUR
CMP	CORRUGATED METAL PIPE	—9.50—	EXISTING GRADE 5' CONTOUR
HDPE	HIGH DENSITY POLYETHYLENE		
DS	DOWN SPOUT		

ABBREVIATIONS

C.I.P.	CAST IRON PIPE	S	SURVEY LINE
C.M.P.	CORRUGATED METAL PIPE	BL	BASE LINE
C.S.P.A.	CORRUGATED STEEL PIPE ARCH	CL	CENTERLINE
C.S.P.	CORRUGATED STEEL PIPE	ESMT.	EASEMENT
D.I.P.	DUCTILE IRON PIPE	T.C.E.	TEMPORARY CONSTRUCTION EASEMENT
H.D.P.E.	HIGH DENSITY POLYETHYLENE	P.D.E.	PERMANENT DRAINAGE EASEMENT
M.T.D.	MULTIPLE TILE DUCT	P.G.E.	PERMANENT GRADING EASEMENT
P.V.C.	POLY VINYL CHLORIDE PIPE	CLF	CHAIN LINK FENCE
R.C.P.	REINFORCED CONCRETE PIPE	WWF	WOVEN WIRE FENCE
R.C.B.	REINFORCED CONCRETE BOX	BWF	BARBED WIRE FENCE
V.C.P.	VITRIFIED CLAY PIPE	MH	MANHOLE
A.C.	ASPHALTIC CONCRETE	CI	CURB INLET
P.C.C.	PORTLAND CEMENT CONCRETE	DI	DITCH INLET
CR. STN.	CRUSHED STONE	BC	BURIED CABLE
H.B. C&G	HIGH BACKED CURB & GUTTER	BK CB	BACK OF CURB
L.B. C&G	LOW BACKED CURB & GUTTER	L.I.P.	LEAVE IN PLACE
(R) REM.	REMOVE	F.F.	FINISHED FLOOR
		L/S	LANDSCAPING AREA

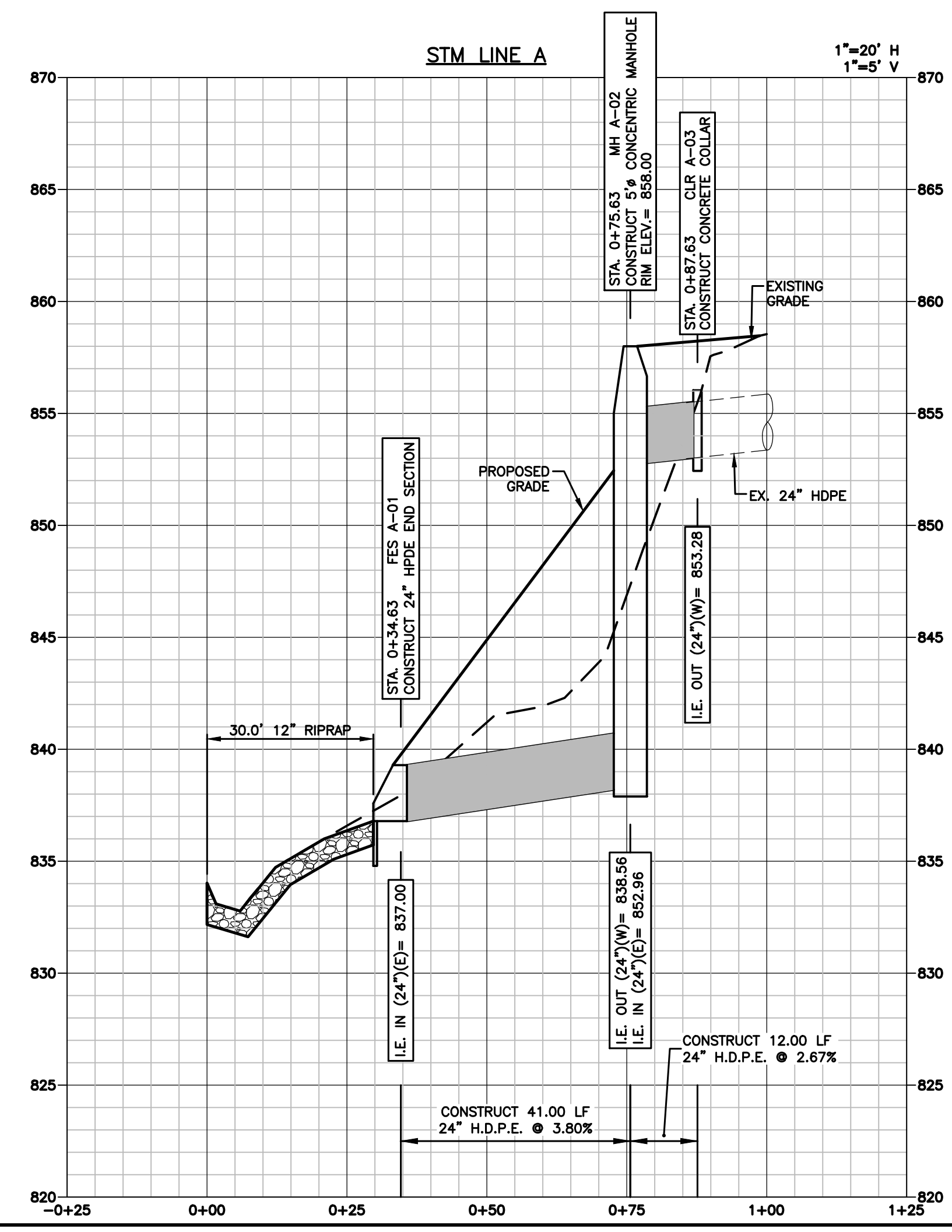
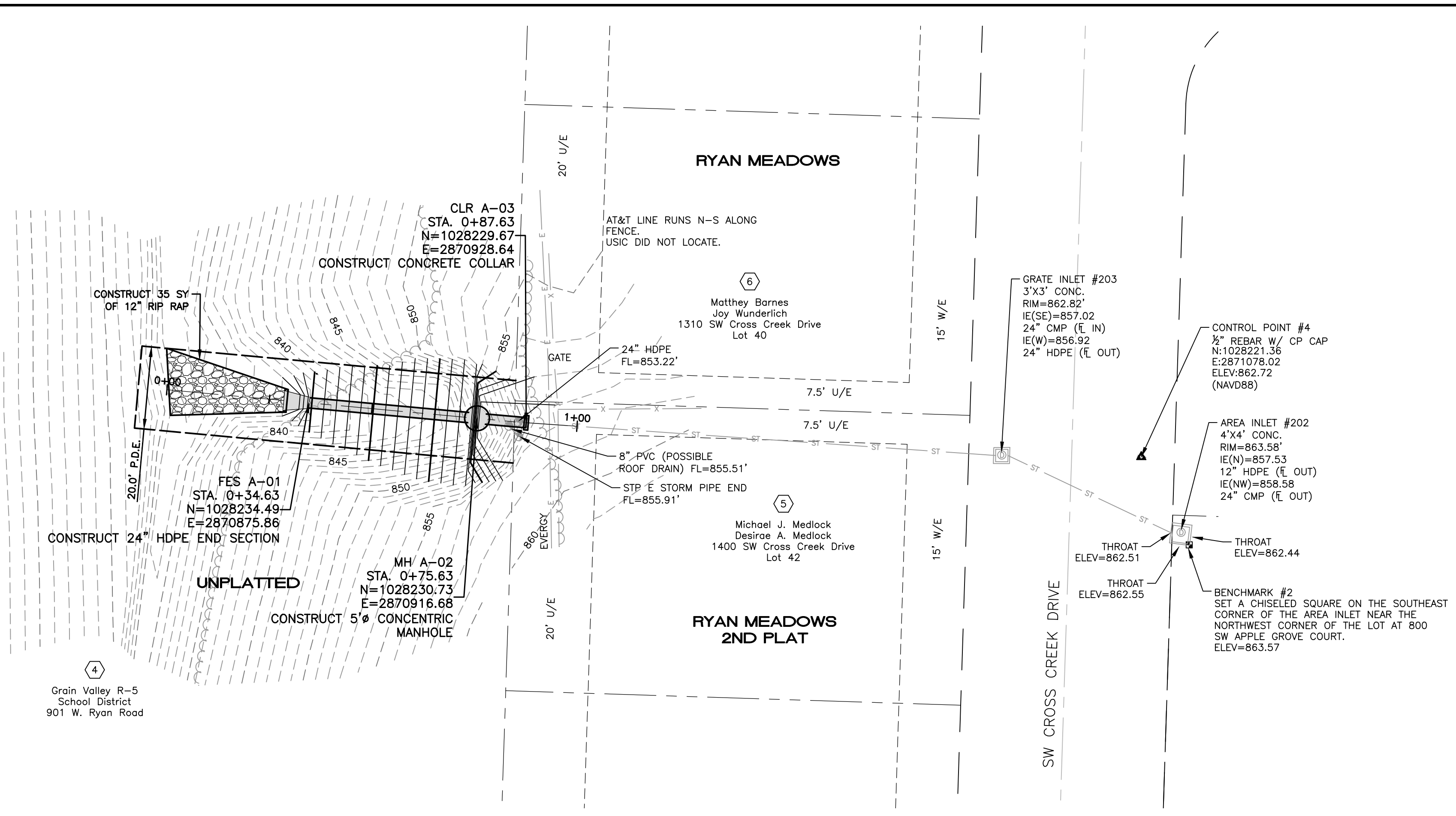
APPROVED: _____ DATE: _____
 DANIEL GRANT MILLER, PE
 LAMP RYNEARSON

APPROVED: _____ DATE: 1/3/2022
 RICHARD TUTTLE, CITY ENGINEER
 GRAIN VALLEY, MISSOURI



LAMP RYNEARSON

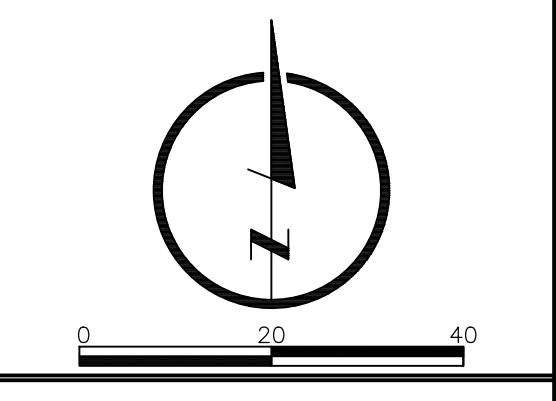
OMAHA, NEBRASKA
 14710 W. DODGE RD., STE. 100 (402)496.2498
 FORT COLLINS, COLORADO
 4715 INNOVATION DR., STE. 100 (970)228.0342
 KANSAS CITY, MISSOURI
 9001 STATE LINE RD., STE. 200 (816)361.0440
LAMPRYNEARSON.COM



GENERAL CONSTRUCTION NOTES:

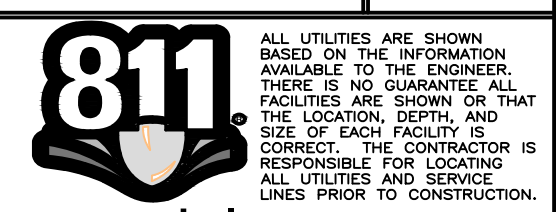
- PRIOR TO THE BEGINNING OF CONSTRUCTION THE CONTRACTOR SHALL ATTEND A PRE-CONSTRUCTION MEETING TO ADDRESS ANY ISSUES. THIS MEETING SHALL INCLUDE THE PROJECT MANAGER, CONSTRUCTION SITE FOREMAN, CITY PROJECT MANAGER, ENGINEER AND IMPACTED UTILITY COMPANIES.
- THE CONTRACTOR SHALL THOROUGHLY REVIEW AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND SPECIAL CONDITIONS OF THE CONTRACT DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION ON THIS PROJECT.
- CONTRACTOR SHALL, AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE, SUBMIT A DETAILED PLAN FOR HANDLING TRAFFIC DURING CONSTRUCTION AND NON-WORKING HOURS FOR REVIEW AND APPROVAL BY THE CITY BEFORE COMMENCING ANY WORK. AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR SHALL CERTIFY THE TRAFFIC CONTROL PLAN.
- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", 2009 EDITION AND ITS MOST CURRENT REVISIONS.
- LOCAL TRAFFIC ON ALL STREETS SHALL BE CARRIED THROUGH CONSTRUCTION, TO THE EXTENT PRACTICABLE. DETOURS SHALL ONLY BE USED WITH PRIOR APPROVAL FROM THE CITY.
- MINIMUM 24HR. NOTICE TO COUNTY, CITY POLICE, PARAMEDIC UNITS, FIRE DISTRICTS, POST OFFICE AND SCHOOL DISTRICT SHALL BE GIVEN BY THE CONTRACTOR BEFORE CLOSING A PUBLIC THOROUGHFARE.
- CONTRACTOR SHALL REMOVE AND REPLACE OR RELOCATE ALL STREET SIGNS LOCATED WITHIN THE LIMITS OF GRADING. (NO DIRECT PAY).
- THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING AND OBTAINING APPROVAL OF A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PRIOR TO THE START OF CONSTRUCTION. A COPY OF THE SWPPP SHALL BE KEPT ON SITE AT ALL TIMES. MONITORING REPORTS AND ANY FIELD REVISIONS TO THE PLANS SHALL BE KEPT IN THE ON SITE REPORT. THE CONTRACTOR IS RESPONSIBLE FOR INSPECTION AND MONITORING REPORTS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING EROSION AND SEDIMENT CONTROL BMPs (BEST MANAGEMENT PRACTICES) TO PREVENT SEDIMENT FROM REACHING PAVED AREAS, STORM SEWER SYSTEMS, DRAINAGE COURSES AND ADJACENT PROPERTIES. IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY DEBRIS, SILT, OR MUD AND RESTORE THE RIGHT-OF-WAY, OR ADJACENT PROPERTIES TO ORIGINAL OR BETTER CONDITION.
- EXCEPT WHERE NECESSARY TO INSTALL EROSION AND SEDIMENT CONTROL DEVICES, CLEARING ACTIVITIES SHALL NOT BEGIN UNTIL ALL PROPER EROSION AND SEDIMENT CONTROL DEVICES HAVE BEEN INSTALLED AND THE SOIL STABILIZED.
- ALL CLEARING AND GRUBBING SHALL INCLUDE CLEARING OF TREES, STUMPS, BRUSH, FENCES, POSTS, MAILBOXES, SIGNS, EXISTING ASPHALT, CONCRETE, CURB, OTHER EXISTING SURFACE FEATURES, STORM SEWER PIPE, STORM SEWER STRUCTURES, OTHER STORM SEWER FEATURES AS NECESSARY BY CONTRACTOR, TO PERFORM THE WORK AS SHOWN ON PLANS. ALL DEBRIS, UNSUITABLE WASTE MATERIAL FROM THE STREET/YARDS SHALL BE DISPOSED OF BY THE CONTRACTOR OFF SITE. DISPOSAL OF DEBRIS AND UNSUITABLE WASTE MATERIAL SHALL BE SUBSIDIARY TO CLEARING AND DEMOLITION.
- ALL WORK SHALL BE CONFINED WITHIN THE EASEMENTS AND/OR CONSTRUCTION LIMITS AS DIRECTED BY THE ENGINEER. ALL GRADING LIMITS SHOWN ARE APPROXIMATE AND MAY BE EXTENDED OR REDUCED AT THE DIRECTION OF THE ENGINEER. CONTRACTOR TO REVIEW AND ADHERE TO ALL PROVISIONS ON EASEMENTS, IF ANY, PROVIDED TO CONTRACTOR BY OWNER

- THE CONTRACTOR SHALL AT NO TIME LEAVE EQUIPMENT, MATERIALS OR DEBRIS AT LOCATIONS THAT COULD OBSTRUCT INTERSECTION SIGHT DISTANCE, IMPEDE PEDESTRIAN TRAFFIC, OBSTRUCT ANY EXISTING CAPACITY OF STORM SEWER SYSTEM, IMPEDE TRAFFIC, OR CAUSE FLOODING OR EROSION TO RESIDENCES.
- EXCAVATION AND BACKFILL IS SUBSIDIARY TO THE COST OF THE STORM SEWER PIPE AND STRUCTURE CONSTRUCTION.
- SAW CUTS FOR MATERIAL REMOVAL SHALL BE FULL DEPTH.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITY LOCATIONS. CONTACT KANSAS ONE-CALL AT 811 OR KANSAS1CALL.COM AT LEAST 2 FULL BUSINESS DAYS PRIOR TO EXCAVATION.
- THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO COMMENCEMENT OF WORK AND FOR MAKING HIS OWN VERIFICATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL NOTIFY ALL THOSE UTILITY COMPANIES WHICH HAVE FACILITIES IN THE VICINITY 72 HOURS PRIOR TO CONSTRUCTION. THE REMOVAL OF EXISTING OR ABANDONED UTILITIES IS SUBSIDIARY TO "CLEARING AND GRUBBING"
- PIPE CONNECTION TO NEW STRUCTURES BEING INSTALLED IS SUBSIDIARY TO PIPE CONSTRUCTION. PIPE CONNECTION TO EXISTING STRUCTURES IS PAID FOR AS EACH.
- THE CONTRACTOR SHALL PROTECT EXISTING UTILITIES AT ALL TIMES. RELOCATION OF EXISTING UTILITIES BY CONTRACTOR MUST BE COORDINATED WITH AND APPROVED BY THE UTILITY OWNER, CITY, AND ENGINEER. (NO DIRECT PAY).
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR REPLACEMENT OR TEMPORARY BRACING OF ALL UTILITY AND STREET LIGHTING POLES LOCATED WITHIN THE LIMITS OF GRADING. (NO DIRECT PAY).
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR RELOCATION OF ALL TELEPHONE, GAS, CABLE, AND OTHER FACILITIES LOCATED WITHIN THE LIMITS OF GRADING. (NO DIRECT PAY).
- CONTRACTOR SHALL COORDINATE WITH UTILITY FOR ALL WATER LINE ADJUSTMENTS AND RELOCATION OF WATER MAINS AND SERVICE LINES. RELOCATION OF FIRE HYDRANTS AND RESETTING OF METER VAULTS AND COVERS TO MATCH FINISHED GRADE. (NO DIRECT PAY). ADJUSTMENT OF VALVE BOXES SHALL BE SUBSIDIARY TO WATER VALVE ENCASUREMENT BID ITEM.
- CONTRACTOR SHALL ADJUST SANITARY SEWER MANHOLE FRAMES AND COVERS, AS REQUIRED TO MATCH NEW GRADE. FRAMES AND COVERS SHALL BE ENCASED IN CONCRETE UP TO MINUS 2" SURFACE ELEVATION. (NO DIRECT PAY)
- RESTORATION OF ANY AREAS OUTSIDE OF THE GRADING LIMITS THAT ARE DISTURBED DURING UTILITY RELOCATION, SHALL BE REPAIRED BY THE UTILITY. CONTRACTOR SHALL COORDINATE SAID WORK.
- CONTRACTOR SHALL PROVIDE TEMPORARY FENCING WHERE EXISTING FENCE IS TO BE REMOVED AND REPLACED, IF REQUIRED BY HOMEOWNER. TEMPORARY FENCE SHALL BE CHAIN LINK. PROVIDE GATES, AS REQUIRED TO MATCH EXISTING.
- CONTRACTOR SHALL REMOVE AND REPLACE EXISTING FENCES TO EQUAL OR BETTER CONDITION AS NECESSARY WHERE CALLED OUT IN THE PLANS.
- CONTRACTOR SHALL REMOVE TREES, SHRUBS AND OTHER LANDSCAPING, AS REQUIRED, WITHIN THE GRADING LIMITS. (NO DIRECT PAY)
- CONTRACTOR SHALL PROVIDE A MINIMUM OF 2 WEEKS WRITTEN NOTICE TO HOMEOWNERS PRIOR TO COMMENCEMENT OF CLEARING, GRUBBING AND GRADING ACTIVITIES. TRANSPLANTING WILL BE THE RESPONSIBILITY OF THE HOMEOWNER.
- CONTRACTOR SHALL SOD AND FERTILIZE ALL DISTURBED AREAS. RESTORATION OF ANY AREAS OUTSIDE OF THE GRADING LIMITS THAT ARE DISTURBED DURING UTILITY RELOCATION, SHALL BE REPAIRED BY THE UTILITY. CONTRACTOR SHALL COORDINATE SAID WORK.
- TREE ROOTS 18" BELOW GROUND SHALL BE CLEAN CUT PRIOR TO TRENCH EXCAVATION.
- CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AND IS RESPONSIBLE FOR ANY DEWATERING NECESSARY FOR CONSTRUCTION. DEWATERING SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL PROPERTY CORNERS/MONUMENTS AND SECTION CORNERS. ANY PROPERTY CORNER AND/OR SECTION CORNERS DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESET BY A REGISTERED LAND SURVEYOR LICENSED IN THE STATE OF KANSAS AT THE CONTRACTORS EXPENSE, UNLESS OTHERWISE NOTED.
- OPEN PITS SHALL NOT BE LEFT AT THE END OF A WORK DAY. ALL EXCAVATIONS SHALL BE BACKFILLED OR COMPLETELY ENCLOSED WITH TEMPORARY FENCING
- CONTRACTOR TO STAKE RIGHT OF WAY PRIOR TO CONSTRUCTION.
- ALL CONCRETE SHALL BE KCMMB4K.
- ALL GRADING REQUIRED TO CONSTRUCT THIS PROJECT AND RESTORE PROPERTIES IS SUBSIDIARY TO OTHER BID ITEMS.
- THE CONTRACTOR SHALL EXCAVATE AHEAD OF STORM SEWER CONSTRUCTION TO POSITIVELY ESTABLISH UTILITY CONFLICTS. THE ENGINEER RESERVES THE ABILITY TO ADJUST PIPE ELEVATIONS AT STRUCTURES UP TO 12" UP OR DOWN TO CLEAR UTILITIES. (NO DIRECT PAY)



PRELIMINARY
 NOT RELEASED FOR CONSTRUCTION

STORM LINE A PLAN/PROFILE
 AND GENERAL NOTES SHEET
 RYAN MEADOWS STORM DRAINAGE IMPROVEMENTS
 GRAIN VALLEY, MISSOURI



DESIGNER / DRAFTER	
DATE	
PROJECT NUMBER	
BOOK AND PAGE	
MISSOURI AUTHORIZATION NUMBER	
SHEET	

