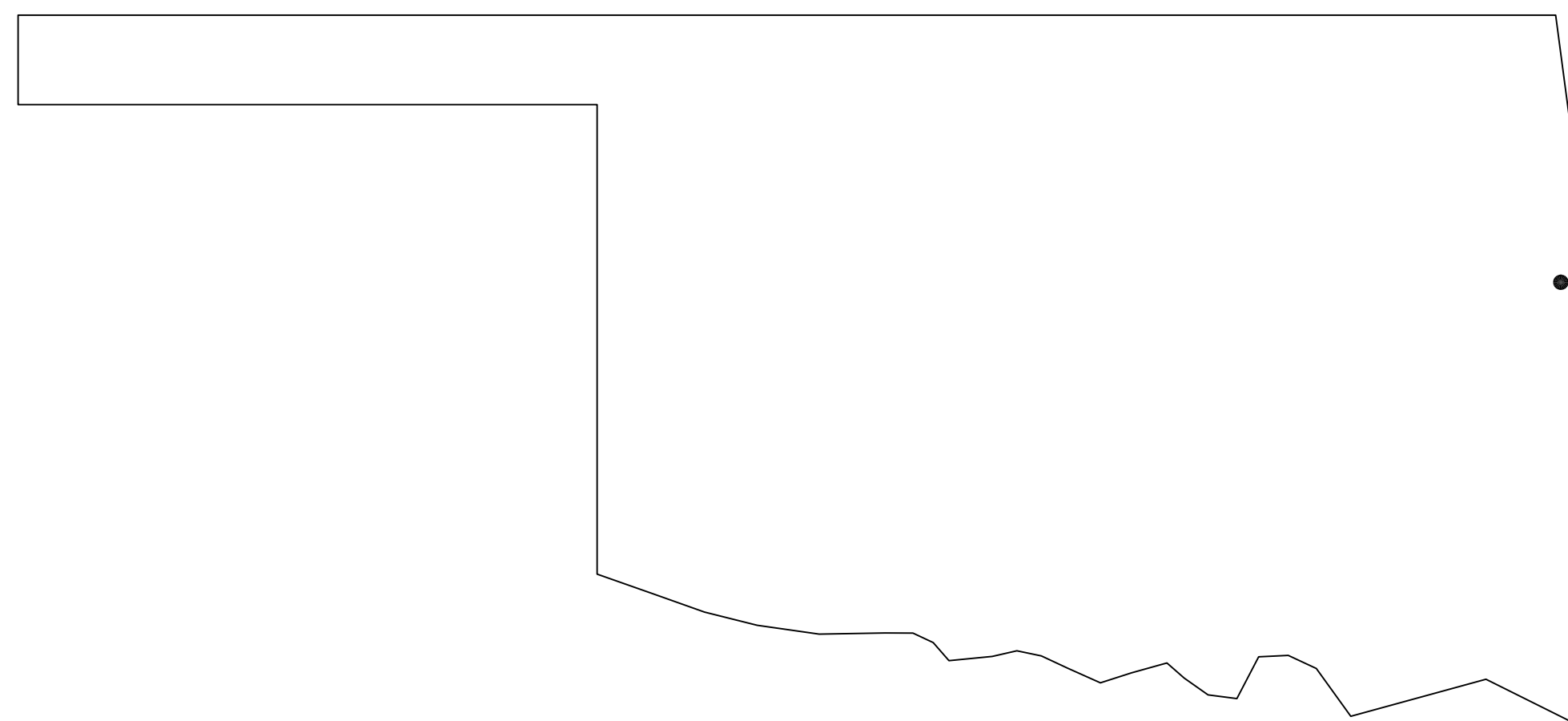


CHEROKEE NATION
HOUSING AUTHORITY



PLANS FOR
COWAN ESTATES SUBDIVISION

LOTS 38-64
STREET AND DRAINAGE IMPROVEMENTS
ROLAND, OKLAHOMA



ROLAND,
SEQUOYAH CO.
OKLAHOMA

VICINITY MAP
SCALE N.T.S



SCALE N.T.S
LOCATION MAP

INDEX

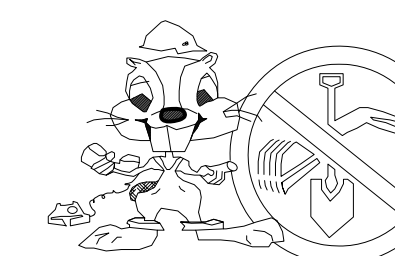
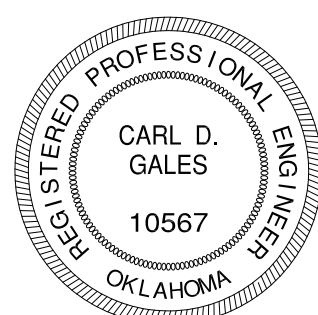
SHEET No.	DESCRIPTION
1.	COVER SHEET
2.	STREET AND DRAIN LAYOUT
3.	GRADING PLAN AND BILL OF MATERIALS
4.	PLAN AND PROFILE
5.	PLAN AND PROFILE
6.	PLAN AND PROFILE
7.	PLAN AND PROFILE
8.	EROSION CONTROL
9.	STREET AND DRAINAGE DETAILS
10.	TOPOGRAPHIC SURVEY WITH LEGAL



LAND SURVEYORS & ENGINEERS

CA. #1041 (PLS, PE) Exp. 6/30/15
901-B Callahan Street
Muskogee, OK 74403
Tel: (918) 682-7577
scottsurveying@suddeninkmail.com

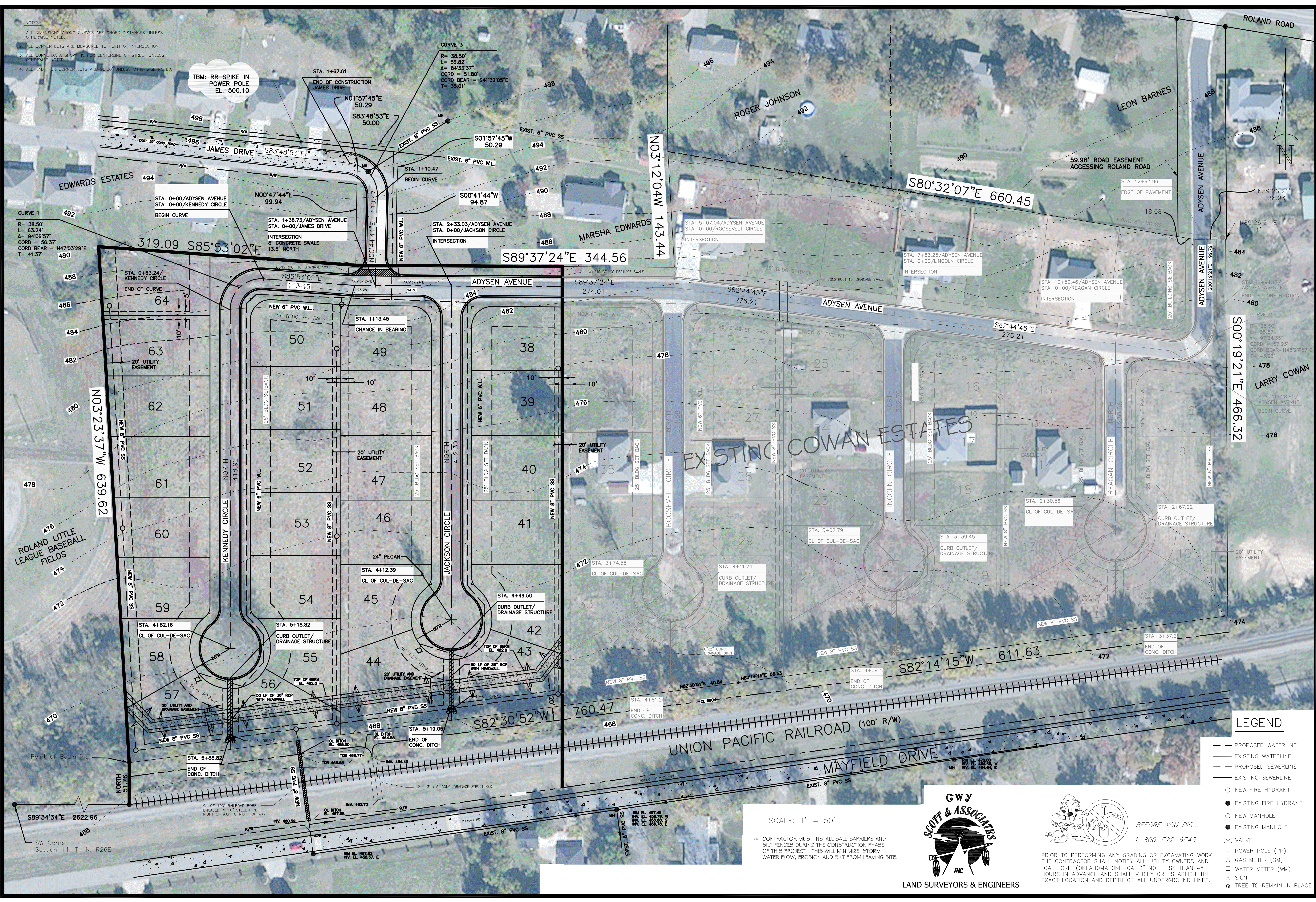
Carl D. Gales
Carl D. Gales
P.E. NO. 10567
9/9/2014
Date



BEFORE YOU DIG...
CALL OKIE
1-800-522-6543

PRIOR TO PERFORMING ANY GRADING OR EXCAVATING WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS AND "CALL OKIE (OKLAHOMA ONE-CALL)" NOT LESS THAN 48 HOURS IN ADVANCE AND SHALL VERIFY OR ESTABLISH THE EXACT LOCATION AND DEPTH OF ALL UNDERGROUND LINES.

NOTES:
 1. ALL DIMENSIONS ALONG CURVES ARE CHORD DISTANCES UNLESS OTHERWISE NOTED.
 2. ALL CORNER LOTS ARE MEASURED TO POINT OF INTERSECTION.
 3. ALL CURVE DATA SHOWN IS FOR CENTERLINE OF STREET UNLESS OTHERWISE NOTED.
 4. ALL RAD. FOR CORNER LOTS ARE 36.00' UNLESS OTHERWISE NOTED.



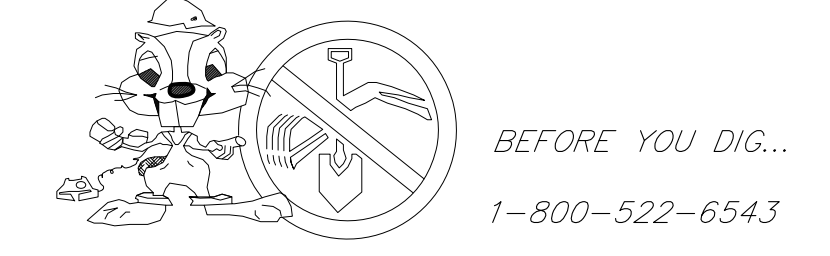
TBM: RR SPIKE IN POWER POLE EL. 500.10

CURVE 1
 R= 38.50'
 L= 63.24'
 Δ= 94°06'57"
 CORD = 56.37'
 CORD BEAR = N47°03'29"E
 T= 41.37'

CURVE 3
 R= 38.50'
 L= 56.82'
 Δ= 84°33'37"
 CORD = 51.80'
 CORD BEAR = S41°32'05"E
 T= 35.01'

CURVE 2
 R= 36.50'
 L= 46.57'
 Δ= 87°34'35"
 CORD = 57.93'
 CORD BEAR = N48°23'59"E
 T= 43.96'

SCALE: 1" = 50'
 CONTRACTOR MUST INSTALL BALE BARRIERS AND SILT FENCES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THIS WILL MINIMIZE STORM WATER FLOW, EROSION AND SILT FROM LEAVING SITE.

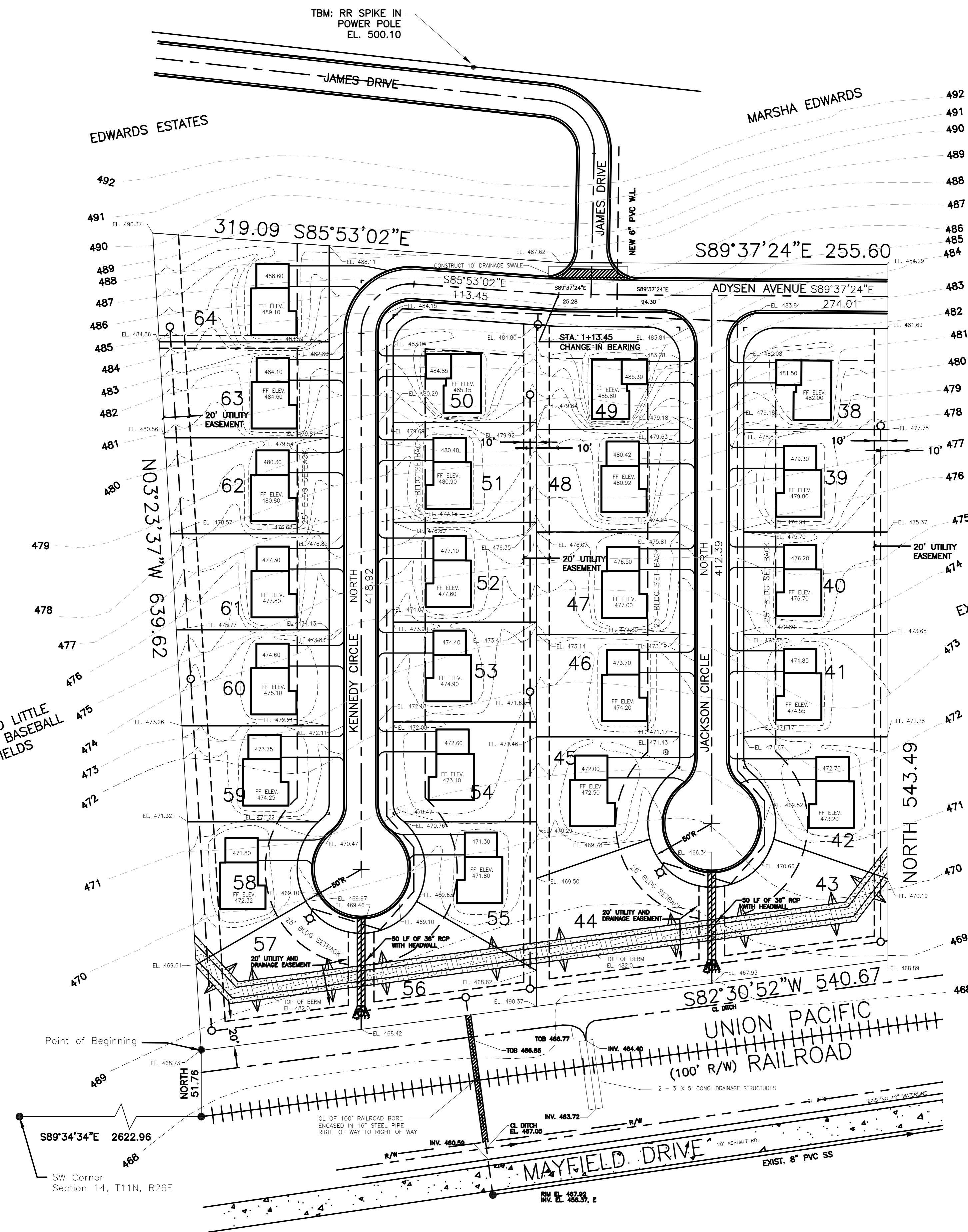


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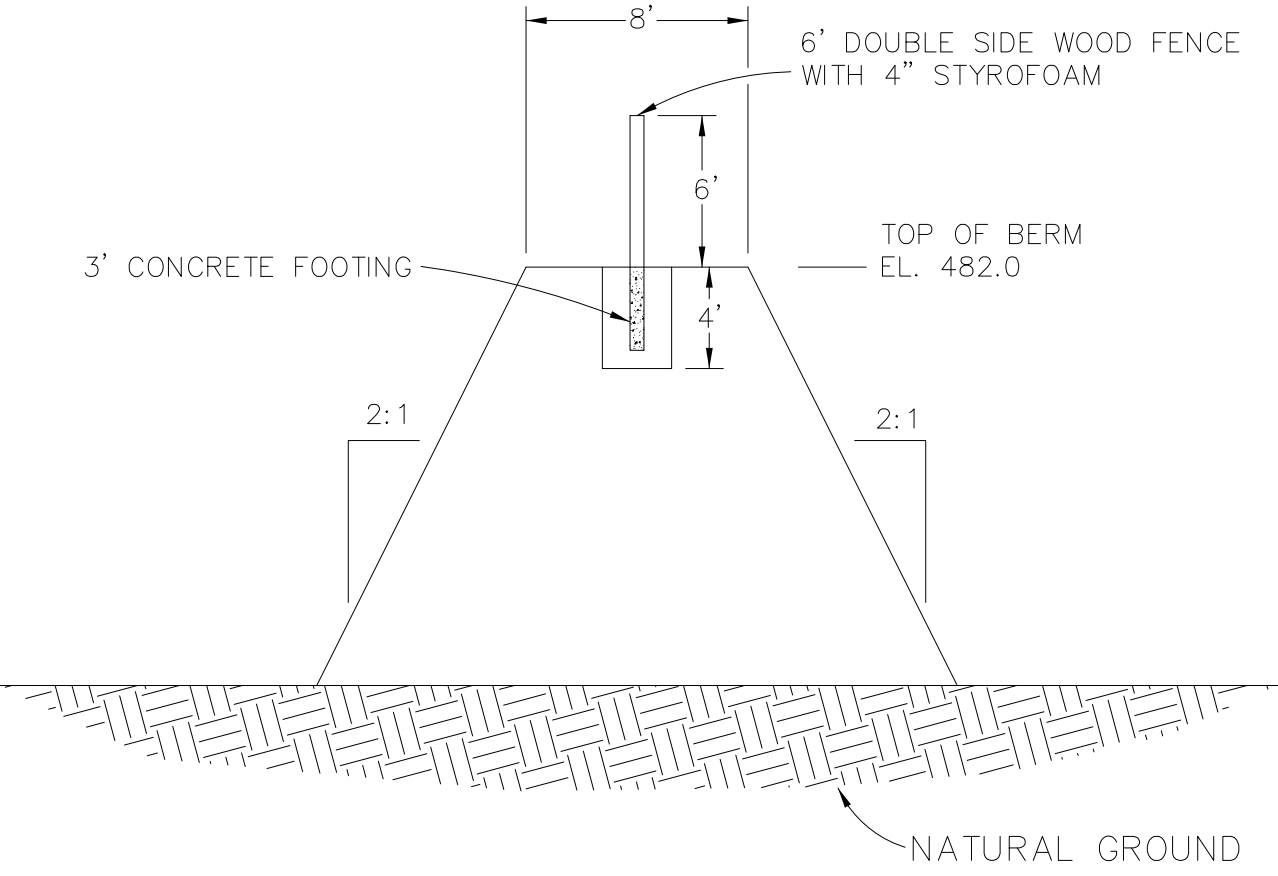
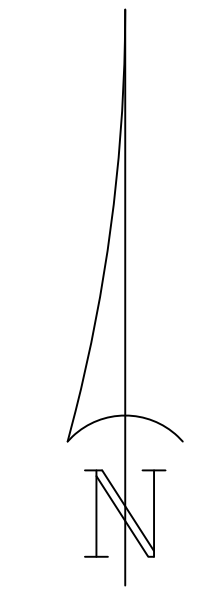
- LEGEND**
- PROPOSED WATERLINE
 - EXISTING WATERLINE
 - PROPOSED SEWERLINE
 - EXISTING SEWERLINE
 - NEW FIRE HYDRANT
 - EXISTING FIRE HYDRANT
 - NEW MANHOLE
 - EXISTING MANHOLE
 - ◇ VALVE
 - POWER POLE (PP)
 - GAS METER (GM)
 - WATER METER (WM)
 - △ SIGN
 - TREE TO REMAIN IN PLACE



- NOTES:
1. ALL DIMENSIONS ALONG CURVES ARE CHORD DISTANCES UNLESS OTHERWISE NOTED.
 2. ALL CORNER LOTS ARE MEASURED TO POINT OF INTERSECTION.
 3. ALL CURVE DATA SHOWN IS FOR CENTERLINE OF STREET UNLESS OTHERWISE NOTED.
 4. ALL RADI FOR CORNER LOTS ARE 25.00' UNLESS OTHERWISE NOTED.



BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
1	STREET UNCLASSIFIED EXCAVATION AND BERM FILL	3,895	CY
2	STREET SELECT BACKFILL FURNISH AND INSTALL	2,075	CY
3	SB-2 BASE ROCK FURNISH AND INSTALL	1,350	CY
4	PRIME COAT FURNISH AND INSTALL	885	GAL
5	2 1/2" HOT MIX ASPHALT TYPE A, FURNISH AND INSTALL	620	TON
6	2" TYPE C, HOT MIX ASPHALT FURNISH AND INSTALL	480	TON
7	CURB AND GUTTER FURNISH AND INSTALL	450	LF
8	CONCRETE SWALE (STREET) FURNISH AND INSTALL	75	SY
9	CONCRETE DRAINAGE DITCH FURNISH AND INSTALL	40	LF
10	TOP SOIL EXCAVATION (LOT) REMOVE AND STOCKPILE	1,200	CY
11	SELECT FILL @ HOUSE PAD REMOVE AND DISPOSE OFFSITE	2,700	CY
12	LOT GRADING	23	EA
13	TRAFFIC AND SAFETY CONTROL	LS	LS
14	SILT FENCE, EROSION CONTROL	LS	LS
15	MOBILIZATION/DEMOLITION	LS	LS
16	BONDING	LS	LS
17	RIP RAP FURNISH AND INSTALL	500	SY
18	36" REINFORCED CONCRETE PIPE	100	LF
19	36" PRECAST HEADWALLS	2	EA
20	BERM EARTH FILL EMBANKMENT FURNISH AND INSTALLED	1000	CY
21	6 FT. WOOD PRIVACY FENCE WITH 4" STYROFOAM	625	LF

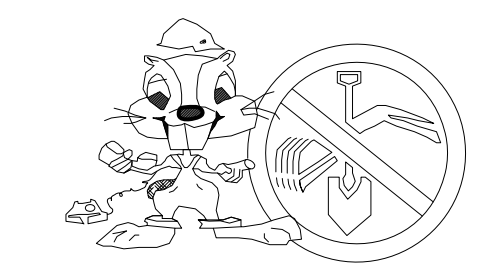


LEGEND

- PROPOSED WATERLINE
- EXISTING WATERLINE
- PROPOSED SEWERLINE
- EXISTING SEWERLINE
- NEW FIRE HYDRANT
- EXISTING FIRE HYDRANT
- NEW MANHOLE
- EXISTING MANHOLE
- ⊗ VALVE
- POWER POLE (PP)
- GAS METER (GM)
- WATER METER (WM)
- △ SIGN
- ⊙ TREE TO REMAIN IN PLACE

SCALE: 1" = 50'

CONTRACTOR MUST INSTALL BALE BARRIERS AND SILT FENCES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THIS WILL MINIMIZE STORAGE WATER FLOW, EROSION AND SILT FROM LEAVING SITE.



BEFORE YOU DIG...
1-800-522-6543

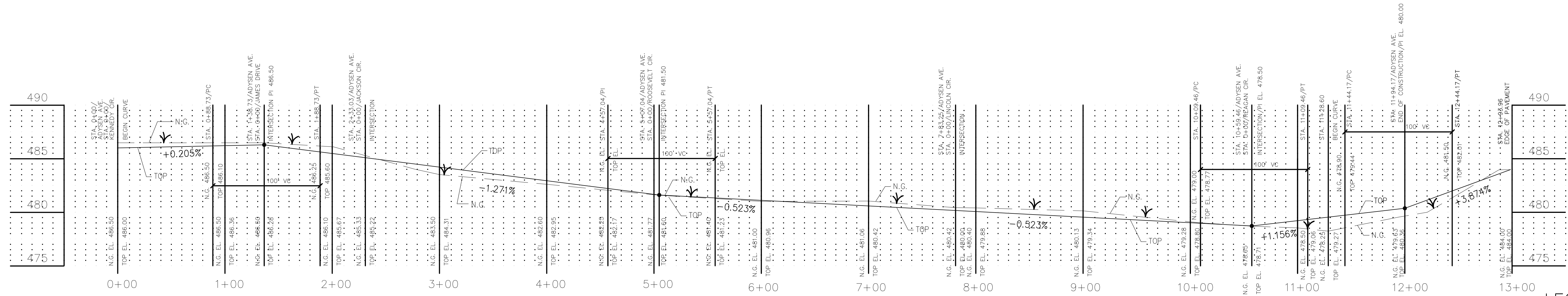
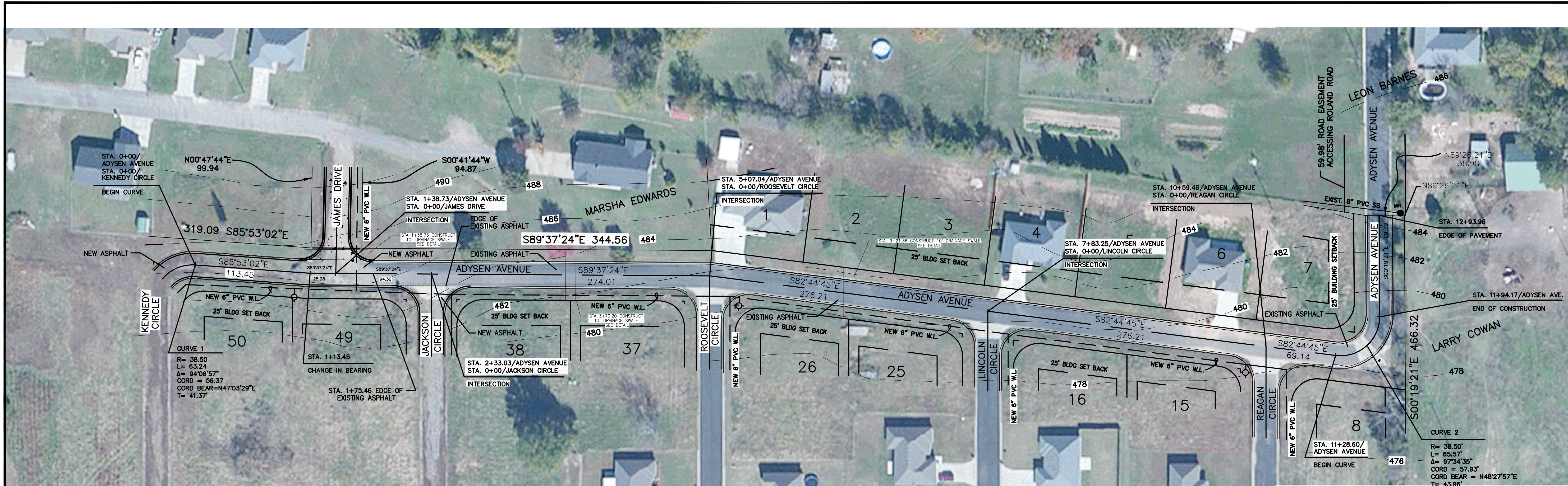
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GRADING PLAN AND BILL OF MATERIALS

COWAN ESTATES
LOTS 38-64
ROLAND, OKLAHOMA

CHEROKEE NATION
HOUSING AUTHORITY
TAHLEQUAH, OKLAHOMA





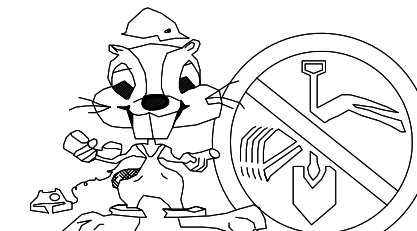
PLAN & PROFILE

SCALE: HORIZ. : 1" = 50'
VERT. : 1" = 5'

NOTE:
1. CONTRACTOR SHALL REMOVE ALL EXISTING ASPHALT AND BASE COURSE MATERIAL AND DISPOSE OFF SITE.
2. CONTRACTOR SHALL REMOVE A MINIMUM OF 12" OF EXISTING SUBGRADE SOIL AND REPLACE WITH SELECT MATERIAL BACKFILL, PLACE ASPHALT TO 95% MODIFIED DENSITY.
3. ALL EXISTING CURB AND GUTTERS WILL NOT BE REMOVED AND IF DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH PROFILE TO MATCH EXISTING GRADE.

CONTRACTOR MUST INSTALL BALE BARRIERS AND SILT FENCES DURING THE CONSTRUCTION PHASE OF THIS PROJECT. THIS WILL MINIMIZE STORM WATER FLOW, EROSION AND SILT FROM LEAVING SITE.

- ### LEGEND
- EXISTING ASPHALT/CURB AND GUTTER
 - PROPOSED ASPHALT/CURB AND GUTTER
 - PROPOSED WATERLINE
 - EXISTING WATERLINE
 - PROPOSED SEWERLINE
 - EXISTING SEWERLINE
 - NEW FIRE HYDRANT
 - EXISTING FIRE HYDRANT
 - NEW MANHOLE
 - EXISTING MANHOLE
 - VALVE
 - POWER POLE (PP)
 - WATER METER (WM)
 - △ SIGN
 - TOP- TOP OF PAVEMENT
 - TREE TO REMAIN IN PLACE



BEFORE YOU DIG...
1-800-522-6543

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