ACM HIGH POINT MULTI-WELL PAD
NORTHWEST QUARTER OF THE SOUTHWEST QUARTER
SECTION 1, TOWNSHIP 3 SOUTH, RANGE 66 WEST
CITY OF AURORA, COUNTY OF ADAMS, STATE OF COLORADO

GENERAL NOTES

1. ALL SIGNS MUST CONFORM TO THE CITY OF AURORA SIGN CODE. SIGNS 3–6 SQUARE FEET IN SIZE WITH OPERATOR INFORMATION AND SAFETY HAZARD WARNINGS ARE REQUIRED TO BE POSTED ON–SITE.

2. THE APPROVAL OF THIS DOCUMENT DOES NOT CONSTITUTE FINAL APPROVAL OF GRADING, DRAINAGE, UTILITY, PUBLIC IMPROVEMENTS AND BUILDING PLANS. SWMP PLANS MUST BE REVIEWED AND APPROVED BY THE APPROPRIATE AGENCY PRIOR TO THE ISSUANCE OF BUILDING PERMITS.

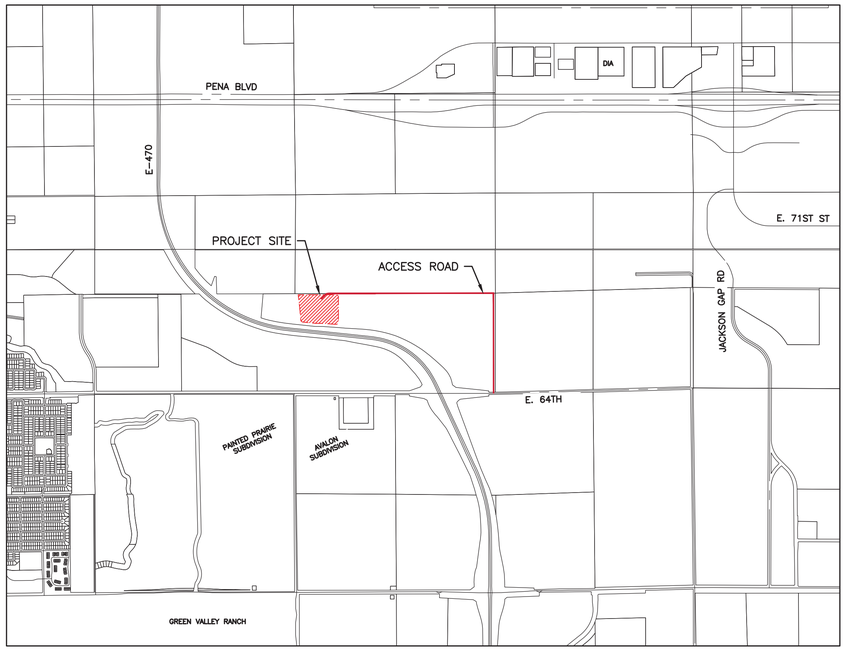
3. ALL INTERESTED PARTIES ARE HEREBY ALERTED THAT THIS SITE PLAN IS SUBJECT TO ADMINISTRATIVE CHANGES AND AS SHOWN ON THE ORIGINAL SITE PLAN ON FIELD IN THE AURORA CITY PLANNING OFFICE AT THE MUNICIPAL BUILDING. A COPY OF THE OFFICIAL PLAN MAY BE PURCHASED THERE. LIKEWISE, SITE PLANS ARE REQUIRED TO AGREE WITH THE APPROVED SUBDIVISION PLAT OF RECORD AT THE TIME OF A BUILDING PERMIT; AND IF NOT MUST BE AMENDED TO AGREE WITH THE PLAT AS NEEDED, OR VICE VERSA.

4. ERRORS IN APPROVED SITE PLANS RESULTING FROM COMPUTATIONS OF INCONSISTENCIES IN THE DRAWINGS MADE BY THE APPLICANT ARE THE RESPONSIBILITY OF THE PROPERTY OWNER OF RECORD. WHERE FOUND, THE CURRENT MINIMUM CODE REQUIREMENTS WILL APPLY AT THE TIME OF BUILDING PERMIT. PLEASE BE SURE THAT ALL PLAN COMPUTATIONS ARE CORRECT.

5. ALL REPRESENTATIONS AND COMMITMENTS MADE BY APPLICANTS AND PROPERTY OWNERS AT PUBLIC HEARINGS REGARDING THIS PLAN ARE BINDING UPON THE APPLICANT PROPERTY OWNER, AND ITS HEIRS, SUCCESSORS, AND ASSIGNS.

6. THE APPLICANT AXIS EXPLORATION LLC, AND THE CITY OF AURORA WILL NEGOTIATE A ROADWAY MAINTENANCE AGREEMENT THAT ADDRESSES THE HAUL ROUTE AND ACCESS ROAD FOR THIS OIL & GAS LOCATION. A MAP OF THE HAUL ROUTE IS DEPICTED ON THE VICINITY MAP OF THIS SITE PLAN. NO WORK SHALL COMMENCE UNTIL THE AGREEMENT IS EXECUTED.

7. OFFICE AND LIVING TRAILERS ARE UTILIZED AT WELL SITES DURING INITIAL SETUP AND DRILLING. THESE TRAILERS ARE APPROVED BY THE CITY OF AURORA BUILDING DIVISION FOR TEMPORARY USE ONLY, AND ARE PERMITTED TO BE ON SITE FOR APPROXIMATELY 7.5 DAYS FOR A SINGLE WELL SITE, AND APPROXIMATELY 60 DAYS FOR AN EIGHT–WELL SITE.



VICINITY MAP
1"=2000'

WELLS				WELLS			
1	ELK 1E–15–1	9	ELK 1E–15–9	17	MOOSE 2W–25–1	25	MOOSE 2W–25–9
2	ELK 1E–15–2	10	ELK 1E–15–10	18	MOOSE 2W–25–2	26	MOOSE 2W–25–10
3	ELK 1E–15–3	11	ELK 1E–15–11	19	MOOSE 2W–25–3	27	MOOSE 2W–25–11
4	ELK 1E–15–4	12	ELK 1E–15–12	20	MOOSE 2W–25–4	28	MOOSE 2W–25–12
5	ELK 1E–15–5	13	ELK 1E–15–13	21	MOOSE 2W–25–5	29	MOOSE 2W–25–13
6	ELK 1E–15–6	14	ELK 1E–15–14	22	MOOSE 2W–25–6	30	MOOSE 2W–25–14
7	ELK 1E–15–7	15	ELK 1E–15–15	23	MOOSE 2W–25–7	31	MOOSE 2W–25–15
8	ELK 1E–15–8	16	ELK 1E–15–16	24	MOOSE 2W–25–8	32	MOOSE 2W–25–16

ROADWAY DESIGN & CONSTRUCTION SPECIFICATIONS

2.03.6.01 CITY OF AURORA PLAN REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH CITY OF AURORA DESIGN CRITERIA AND THE CITY CODE. THE CITY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND ELEVATIONS WHICH SHALL BE CONFIRMED AND CORRELATED AT THE JOB SITE. THE CITY OF AURORA, THROUGH THE SUBMITTAL REQUIREMENTS AND PROCEDURES 2–12 ERRATUM NO. 1 – 10.2016 APPROVAL OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

2.03.6.02 ALL ROADWAY CONSTRUCTION SHALL CONFORM TO CITY OF AURORA "ROADWAY DESIGN & CONSTRUCTION SPECIFICATIONS," LATEST EDITION.

2.03.6.03 ALL WATER DISTRIBUTION, SANITARY SEWER, AND STORM DRAINAGE CONSTRUCTION SHALL CONFORM TO CITY OF AURORA "STANDARDS AND SPECIFICATIONS REGARDING WATER, SANITARY SEWER AND STORM DRAINAGE INFRASTRUCTURE," LATEST REVISION

2.03.6.04 ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO THE CITY STANDARDS AND SPECIFICATIONS.

2.03.6.05 THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC IMPROVEMENT INSPECTIONS DIVISION, 303–739–7420, 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.

2.03.6.06 LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION, CONTACT UTILITY NOTIFICATION CENTER OF COLORADO, 1–800–922–1987 OR 811.

2.03.6.07 THE CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE PLANS (APPROVED BY THE CITY OF AURORA), ONE COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, AND A COPY OF ANY PERMITS AND EXTENSION AGREEMENTS NEEDED AT THE JOB SITE AT ALL TIMES.

2.03.6.08 IT IS THE CONSULTANT'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ON–SITE, AND OFF–SITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NEEDED DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS EITHER ON–SITE OR OFF–SITE, WHICH ARISE IN THE FIELD, WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY. THE COST TO RECTIFY ANY ADVERSE SITUATION TO MEET THE CITY STANDARDS AND SPECIFICATIONS AND THE CITY CODE SHALL BE BORNE SOLELY BY THE DEVELOPER.

2.03.6.09 THE OWNER/DEVELOPER MUST OBTAIN THE WRITTEN PERMISSION OF THE ADJACENT PROPERTY OWNER(S) PRIOR TO ANY OFF–SITE GRADING OR CONSTRUCTION.

2.03.6.10 CONCRETE SHALL NOT BE PLACED UNTIL THE FORMS HAVE BEEN INSPECTED BY PUBLIC IMPROVEMENTS INSPECTIONS.

2.03.6.11 PAVING OF PUBLIC STREETS SHALL NOT START UNTIL A SOIL REPORT AND PAVEMENT DESIGN IS APPROVED BY THE CITY ENGINEER, PROOF ROLLING, AND SUBGRADE AND TRENCH SUBMITTAL REQUIREMENTS AND PROCEDURES 2–13 ERRATUM NO. 1 – 10.2016 COMPACTION TESTS TAKEN BY THE DEVELOPER'S GEOTECH ARE APPROVED BY PUBLIC IMPROVEMENTS INSPECTIONS/MATERIALS LAB.

2.03.6.12 STANDARD CITY OF AURORA CURB RAMPS SHALL BE CONSTRUCTED AT ALL CURB RETURNS, AT ALL "T" INTERSECTIONS AND AT ALL CURBSIDE KIOSKS OR CLUSTERS, UNLESS OTHERWISE MODIFIED BY THESE PLANS.

2.03.6.13 ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.

2.03.6.14 ALL ELEVATIONS ARE TOP OF GRAVEL UNLESS OTHERWISE NOTED.

2.03.6.15 THE CITY OF AURORA SHALL NOT BE LIABLE FOR THE MAINTENANCE OF DITCHES AND DETENTION PONDS. THESE FACILITIES MAY NOT MEET CITY STANDARDS AND SHALL REMAIN IN PRIVATE MAINTENANCE BY AXIS EXPLORATION, LLC IN PERPETUITY. THESE PRIVATE FACILITIES INCLUDE, IF PROVIDED, THE PRIVATE UNDERDRAIN SYSTEM PLACED WITHIN THE PUBLIC RIGHT–OF–WAY.

2.03.6.16 THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR CONTACTING CDOT TO ENSURE ALL WORK ON OR ADJACENT TO STATE HIGHWAYS OR CDOT R.O.W. MEETS CDOT REQUIREMENTS.

2.03.6.17 THE STREETLIGHT OR PEDESTRIAN LIGHT INSTALLATION WITHIN THE PUBLIC RIGHT–OF–WAY SHALL BE DESIGNED, FUNDED, AND CONSTRUCTED BY THE DEVELOPER/OWNER. OWNERSHIP AND MAINTENANCE OF THE STREET/PEDESTRIAN LIGHTS SHALL BE THE RESPONSIBILITY OF THE CITY OF AURORA ONCE THEY HAVE BEEN ACCEPTED. STREET LIGHT AND/OR PEDESTRIAN LIGHTING PLANS SHALL BE PREPARED AND SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL AND SHALL BECOME A PART OF THE APPROVED CIVIL CONSTRUCTION PLANS FOR THE PROJECT. CERTIFICATE OF OCCUPANCIES WILL NOT BE ISSUED UNTIL THE STREET AND/OR PEDESTRIAN LIGHTING PLANS ARE APPROVED, CONSTRUCTED, AND INITIALLY ACCEPTED.

2.03.6.18 THE OWNER/CONTRACTOR MUST OBTAIN A C.D.P.S. STORM WATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, IF REQUIRED.

2.03.6.19 THE OWNER/CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ARMY CORP OF ENGINEERS FOR WETLAND MITIGATION OR WORK WITHIN THE WATERS OF THE U.S., IF REQUIRED. IT IS THE RESPONSIBILITY OF THE OWNER/CONTRACTOR TO PROVIDE A COPY OF THE ARMY CORP OF ENGINEER'S REQUIREMENTS TO THE CITY OF AURORA. IF THERE ARE NO REQUIREMENTS BY THE ARMY CORP OF ENGINEERS, THEN A WRITTEN NOTIFICATION FROM THE ARMY CORP OF ENGINEERS SHALL BE SUBMITTED TO THE CITY OF AURORA STATING SUCH. CITY APPROVAL OF THE CONSTRUCTION PLANS IS SUBJECT TO THE SUBMITTAL REQUIREMENTS AND PROCEDURES 2–14 ERRATUM NO. 1 – 10.2016 OWNER/CONTRACTOR OBTAINING A 404 PERMIT, IF APPLICABLE. A COPY OF THIS PERMIT SHALL BE SUBMITTED TO THE CITY OF AURORA PRIOR TO ANY PERMITS BEING ISSUED.

2.03.6.20 ALL SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, UNLESS OTHERWISE NOTED BY THE CITY OF AURORA.

2.03.6.21 NO PRIVATE UNDERDRAIN SYSTEMS FOR GROUNDWATER DISCHARGES FROM FOUNDATION DRAINS EXIST ON SITE.

CITY OF AURORA APPROVALS

CITY ATTORNEY:_____DATE:_____

PLANNING DIRECTOR:_____DATE:_____

PLANNING COMMISSION:_____DATE:_____

CITY COUNCIL:_____DATE:_____

ATTEST: _____DATE:_____
(CITY CLERK)

DATABASE APPROVAL DATE:_____

RECORDER'S CERTIFICATE:
ACCEPTED FOR FILING IN THE OFFICE OF THE CLERK AND RECORDER OF COLORADO AT_____O'CLOCK_____M,
THIS_____DAY OF_____AD, _____.

CLERK AND RECORDER_____DEPUTY:_____

APPROVED ONE YEAR FROM THIS DATE

_____

_____ _____
CITY ENGINEER DATE

_____ _____
PARKS, RECREATION AND OPEN SPACE DATE

_____ _____
WATER DEPARTMENT DATE

_____ _____
FIRE DEPARTMENT DATE

_____ _____
TRAFFIC MANAGER DATE

PROJECT OWNER/DEVELOPER SIGNATURE BLOCK

I HAVE REVIEWED THE INFORMATION CONTAINED WITHIN THE STORMWATER MANAGEMENT PLAN AND ACCEPT RESPONSIBILITY FOR THE REQUIREMENTS SET FORTH

_____
ATTORNEY IN FACT, AXIS EXPLORATION, LLC (SIGNATURE) DATE

PLAN PREPARER SIGNATURE BLOCK
I ACKNOWLEDGE MY RESPONSIBILITY FOR THE PREPARATION OF THE STORM WATER MANAGEMENT PLAN.

_____
CO PROFESSIONAL ENGINEER (SIGNATURE) DATE

DATA BLOCK	
WELL PAD ACREAGE	17.64 AC (DRILL/PROD) 8.5 AC (INTERIM RECLAIMED)
NUMBER OF WELLS	32
MAX. HEIGHT OF STRUCTURES	30'–0"
ZONING CLASS	AD AIRPORT DISTRICT

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
1	COVER
2	LEGEND
3	EXISTING CONDITIONS
4	OVERALL SITE PLAN
5	DRILLING & PRODUCTION SITE PLAN
6	INTERIM RECLAIMED SITE PLAN
7	D&P GRADING PLAN
8	DRILLING CROSS SECTIONS
9	INTERIM RECLAIMED GRADING PLAN
10	INTERIM RECLAIMED CROSS SECTIONS
11	DETAILS I
12	DETAILS II
13	LANDSCAPE PLAN
14	LANDSCAPE NOTES AND DETAILS

AXIS EXPLORATION, LLC

LAMP RYNEARSON
4715 Innovation Dr., Ste. 100
Fort Collins, CO 80525
970.226.0342
LampRynearson.com

COLORADO 811 KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

L:\engineering\02185003.08 eng - acm high point\DRAWINGS\CONSTRUCTION DRAWINGS\02185003.08 - CVR.dwg, 12/10/2019 2:32:15 PM, CHRIS HAAK, LAMP RYNEARSON

EXISTING LINE LEGEND

- ADJACENT LOT LINE
- EDGE PAVEMENT OR GRAVEL
- PROPERTY LINE
- SECTION LINE
- EXISTING CABLE TELEVISION
- EXISTING EASEMENT
- EXISTING ELECTRIC
- EXISTING FIBER OPTIC
- EXISTING FLOWLINE
- EXISTING GAS
- EXISTING OVERHEAD POWER
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING TELEPHONE
- EXISTING WATER
- EXISTING FENCE

EXISTING SYMBOL LEGEND & CODE ABBREVIATIONS

SYMBOL	DESCRIPTION	CODE ABBREVIATIONS
	BUILDING, A/C	BAC
RD	BUILDING, ROOF DRAIN	BRD
	BRIDGE, LOW CHORD	BRLC
	DRAINAGE, AREA INLET, ROUND	DAIR
	DRAINAGE, AREA INLET, SQUARE	DAIS
	DRAINAGE, MANHOLE	DMH
	DRAINAGE, STORM, FES	DSF
	DRAINAGE, STORM, PIPE	DSP
	GROUND, BORE HOLE	GBH
	LANDSCAPE, BENCH	LBE
	LANDSCAPE, BOLLARD	LB
	LANDSCAPE, BOULDER	LBR
	LANDSCAPE, BUSH	LBU
	LANDSCAPE, FLAGPOLE	LFP
	LANDSCAPE, GROUND LIGHT	LGL
MB	LANDSCAPE, MAILBOX	LMB
	LANDSCAPE, MISCELLANEOUS POINT	LMP
	LANDSCAPE, TREE, CONIFEROUS	LTC
	LANDSCAPE, TREE, DECIDUOUS	LTD
	MONUMENT, BENCHMARK	MB
	MONUMENT, CONTROL	MC
	MONUMENT, FOUND	MF
	MONUMENT, FOUND, OFFSET	MFO
	MONUMENT, SET	MS
	MONUMENT, RIGHT-OF-WAY	MROW
	MONUMENT, SECTION CORNER	MSC
	MONUMENT, SECTION CORNER, CALCULATED	MSCC
CR	MONUMENT, SECTION CORNER, REFERENCE	MSCR
	MONUMENT, SECTION CORNER, TIE	MSCT
WC	MONUMENT, SECTION CORNER, WITNESS	MSCW
	RAILROAD, CROSSBUCK	RRCB
RR# ENG	RAILROAD, SIGN, CROSSING	RRSC
	SIGNS, BILLBOARD	SBLB
	SIGNS, DELINEATOR	SD
	SIGNS, INFORMATION	SI
	SIGNS, MONUMENT	SM
	SIGNS, REGULATORY	SR
	STRIPING, ARROW, LEFT	STAL
	STRIPING, ARROW, RIGHT	STAR
	STRIPING, ARROW, STRAIGHT	STAS
	STRIPING, BICYCLE	STBC
	STRIPING, HANDICAP	STHC
	STRIPING, ONLY	STO
	TRAFFIC CONTROL, CABINET	TCC
	TRAFFIC CONTROL, PEDESTRIAN CROSSING	TCPC
	TRAFFIC CONTROL, POLE WITH MAST	TCPM
	TRAFFIC CONTROL, PULLBOX	TCPB
	UTILITY, CABLE, PEDESTAL	UCP
	UTILITY, CABLE, PULLBOX	UCPB
	UTILITY, CABLE, WARNING SIGN	UCWS
	UTILITY, ELECTRIC, MANHOLE	UEMH
	UTILITY, ELECTRIC, METER	UEM
	UTILITY, ELECTRIC, POLE	UEP
	UTILITY, ELECTRIC, PULLBOX	UEPB
E	UTILITY, ELECTRIC, TRANSFORMER	UET
EV	UTILITY, ELECTRIC, VAULT	UEV
	UTILITY, ELECTRIC, WARNING SIGN	UEWS
F	UTILITY, FIBER OPTIC, PEDESTAL	UFP
	UTILITY, FIBER OPTIC, PULLBOX	UFPB
FV	UTILITY, FIBER OPTIC, VAULT	UFV
	UTILITY, FIBER OPTIC, WARNING SIGN	UFWS
	UTILITY, GAS, MANHOLE	UGMH
	UTILITY, GAS, METER	UGM
	UTILITY, GAS, VALVE	UGV
	UTILITY, GAS, WARNING SIGN	UGWS
	UTILITY, IRRIGATION, CONTROL VALVE	UICV
	UTILITY, IRRIGATION, SPRINKLER HEAD	UISH
	UTILITY, POLE, H-STRUCTURE	UPH
	UTILITY, POLE, PEDESTRIAN LIGHT	UPPL
	UTILITY, POLE, STEEL	UPS
	UTILITY, POLE, STREET LIGHT	UPSL
	UTILITY, POLE, WOOD	UPW
	UTILITY, POLE, WOOD WITH LIGHT	UPWL
CO	UTILITY, SEWER, CLEANOUT	USCO
S	UTILITY, SEWER, MANHOLE	USMH
	UTILITY, SEWER, WARNING SIGN	USWS
T	UTILITY, TELEPHONE, MANHOLE	UTMH
	UTILITY, TELEPHONE, POLE	UTP
	UTILITY, TELEPHONE, PULLBOX	UTPB
	UTILITY, TELEPHONE, WARNING SIGN	UTWS
	UTILITY, UNIDENTIFIED, MANHOLE	UUMH
	UTILITY, UNIDENTIFIED, PEDESTAL	UUP
	UTILITY, UNIDENTIFIED, PULLBOX	UUPB
	UTILITY, WATER, CURB STOP	UWCS
	UTILITY, WATER, FIRE HYDRANT	UWFH
W	UTILITY, WATER, MANHOLE	UWMH
	UTILITY, WATER, METER	UWM
PIV	UTILITY, WATER, POST INDICATOR VALVE	UWPIV
	UTILITY, WATER, VALVE	UWV
	UTILITY, WATER, WARNING SIGN	UWWS
	UTILITY, WATER, YARD HYDRANT	UWYH

REMOVALS

- BUILDING TO BE REMOVED
- SIDEWALK TO BE REMOVED
- W-REMOVE-W REMOVAL UTILITY
- REMOVE OBJECT

DRAINAGE (DR) LEGEND

- DRAINAGE BASIN ID
- DRAINAGE AREA (AC)
- MINOR STORM RUNOFF COEFFICIENT
- MAJOR STORM RUNOFF COEFFICIENT
- PROPOSED DRAINAGE BASIN BOUNDARY
- PROPOSED DRAINAGE SUB BASIN BOUNDARY
- EXISTING DRAINAGE BASIN BOUNDARY
- EXISTING DRAINAGE SUB BASIN BOUNDARY
- DRAINAGE FLOW PATH
- DESIGN POINT
- CHANNEL FLOW ARROW
- OVERLAND FLOW ARROW

GRADING

- PROPOSED CONTOUR
- FUTURE CONTOUR
- EXISTING CONTOUR
- PROPOSED SWALE
- GRADE BREAK
- WETLANDS AREA NOT TO BE DISTURBED
- ×4638.00 SPOT ELEVATION
- XHP=4637.94 SPOT ELEVATION WITH DESCRIPTION SEE ABBREVIATIONS THIS SHEET

UTILITIES

- 18"ST PROPOSED STORM SEWER
- 8"SS PROPOSED SANITARY SEWER
- PROPOSED SANITARY SEWER SERVICE
- 8"DR UD PROPOSED SLOTTED UNDER DRAIN
- UGP PROPOSED UNDERGROUND POWER
- 2"W PROPOSED WATER LINE
- G PROPOSED GAS
- T PROPOSED TELEPHONE
- PROPOSED AIR TAP
- PROPOSED WATER SERVICE
- PROPOSED MANHOLE
- PROPOSED F.E.S.
- PROPOSED F.E.S. WITH ROCK APRON
- PROPOSED CURB INLET
- PROPOSED AREA INLET
- PROPOSED PIPE PLUG
- PROPOSED CLEANOUT
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT ASSEMBLY
- PROPOSED REDUCER
- PROPOSED TEE WITH THRUST BLOCK
- PROPOSED BEND WITH THRUST BLOCK
- PROPOSED CROSS
- PROPOSED METER PIT AND METER VAULT

PAVING

- PROPOSED CURB AND GUTTER
- PROPOSED FLOWLINE
- PROPOSED RETAINING WALL
- PROPOSED X" CONCRETE SIDEWALK
- PROPOSED X" CONCRETE DECORATIVE
- PROPOSED ASPHALT PAVEMENT
- PROPOSED BARRICADE
- PROPOSED SIGN
- PROPOSED BUILDING
- PROPOSED FENCE
- (15) PROPOSED PARKING STALL COUNT
- PROPOSED PAVEMENT MARKINGS
- SAWED TRANSVERSE CONTRACTION JOINT
- SAWED LONGITUDINAL JOINT
- KEYED LONGITUDINAL
- EXPANSION JOINT
- SOUND WALL
- TRAFFIC FLOW ARROWS

GENERAL ABBREVIATIONS

AC	ACRES
A.D.	GRADE CHANGE
ADA	AMERICANS WITH DISABILITIES ACT
BLDG	BUILDING
BOC	BACK OF CURB
BOSW	BACK OF WALK
BOP	BOTTOM OF PIPE
BOW	BOTTOM OF WALL AT FINISHED GRADE
CATV	CABLE TELEVISION
CF	CUBIC FOOT
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CP	CONTROL POINT
CY	CUBIC YARD
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
E	EAST
EOA	EDGE OF ASPHALT
EOB	EDGE OF BOX
ELEV.	ELEVATION
EOG	EDGE OF GRAVEL
EX	EXISTING
FES	FLARED END SECTION
FFE	FINISH FLOOR ELEVATION
FH	FIRE HYDRANT
FL	FLOWLINE
G	GAS
G.B.	GRADE BREAK
HP	HIGH POINT
HORIZ	HORIZONTAL
I.E.	INVERT ELEVATION
L	LEGAL DIMENSIONS
LF	LINEAR FEET
LP	LOW POINT
M	MEASURED
MH	MANHOLE
ME	MATCH EXISTING
MOE	MINIMUM OPENING ELEVATION
MLVT	MODULAR LARGE VOLUME STORAGE TANK
N	NORTH
N.T.S.	NOT TO SCALE
P	PLAT DIMENSIONS
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
P.V.C.	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RECORD DIMENSIONS
RAD	RADIUS
RB	REBAR
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT OF WAY
S	SOUTH
SF	SQUARE FEET
SS	SANITARY SEWER
ST	STORM
STA	STATION
STD	STANDARD
SW	SIDEWALK
T	TELEPHONE
TOC	TOP OF CURB
TOF	TOP OF FOUNDATION
TOG	TOP OF GRADE
TOI	TOP OF ISLAND
TOP	TOP OF PAVEMENT
TOS	TOP OF SUBGRADE
TOW	TOP OF WALL
TYP.	TYPICAL
UE	UTILITY EASEMENT
VERT	VERTICAL
W/	WITH
W	WEST
WQCV	WATER QUALITY CAPTURE VOLUME

*GRAY VERSIONS OF SYMBOLS, LINES AND ABBREVIATIONS ON THIS PAGE MAY REPRESENT EXISTING OR PROPOSED DESIGN WITHIN DIFFERENT PHASES IN THIS DESIGN SET.

LAMP RYNEARSON
4715 INNOVATION DR., STE. 100
FORT COLLINS, CO 80525
970.226.0342
LampRynearson.com

FOR REVIEW

NOT RELEASED FOR CONSTRUCTION

LEGEND

ACM HIGH POINT MULTI-WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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

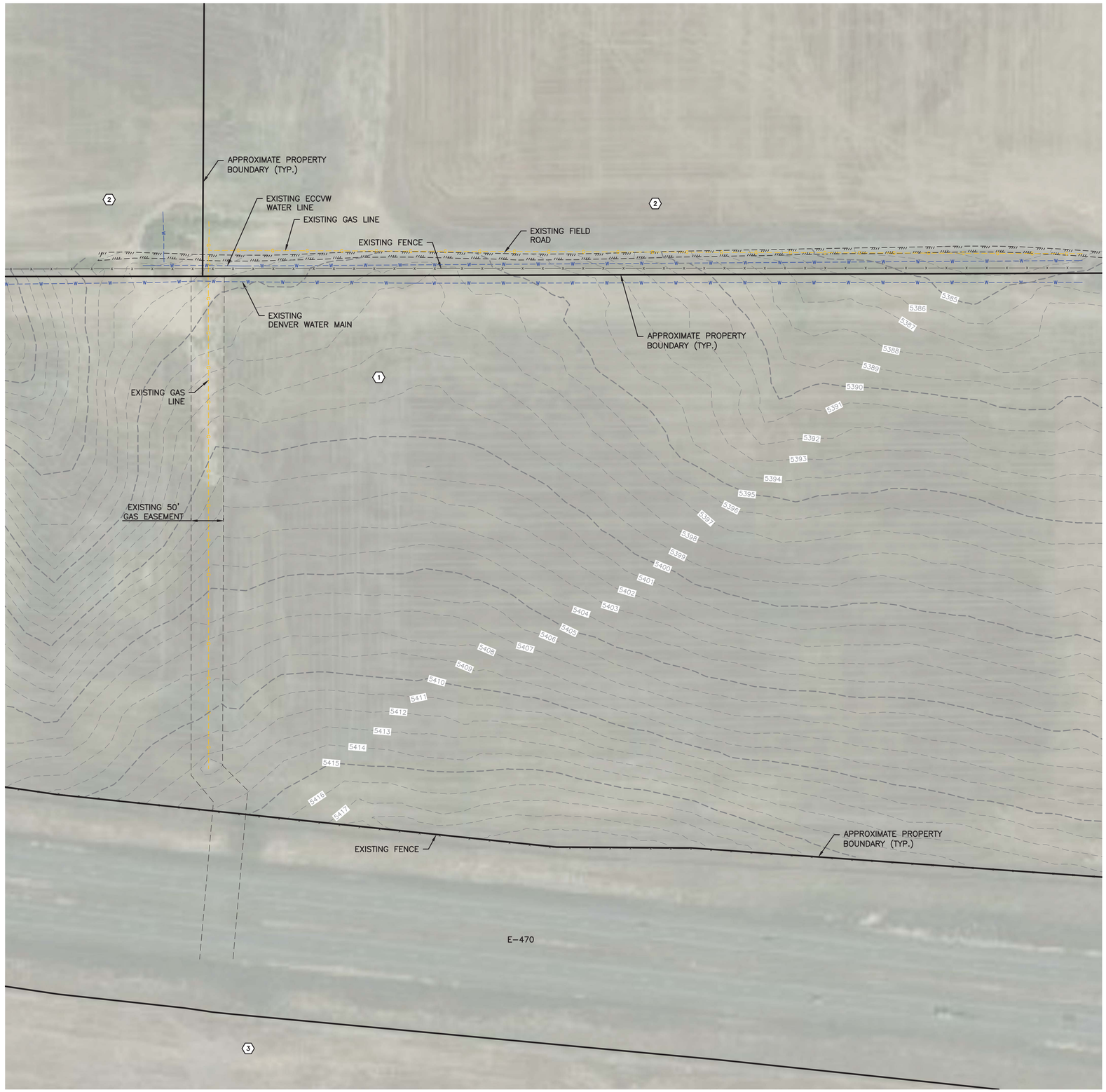
ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER. THERE IS NO GUARANTEE ALL UTILITIES ARE SHOWN OR THAT THE LOCATION, DEPTH, AND SIZE OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION.

REVISIONS

DESIGNER / DRAFTER
TJS
DATE
12/2/2019
PROJECT NUMBER
0218003.08
BOOK AND PAGE

SHEET
2 OF 14

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80 0 80 160

SCALE: 1"= 80'

GENERAL NOTES

1. ALL EXISTING UTILITIES SHOWN IN THIS DRAWING ARE APPROXIMATE AND ALL EXISTING UTILITIES MAY NOT BE SHOWN. CONTRACTOR TO LOCATE AND/OR CONFIRM ALL EXISTING UNDERGROUND AND ABOVE GROUND UTILITIES WITHIN AREAS TO BE DISTURBED AND PROTECT SAID UTILITIES DURING CONSTRUCTION. SHOULD ANY UTILITY REQUIRE RELOCATION AND/OR MODIFICATION, THE CONTRACTOR SHALL COORDINATE WITH THAT PARTICULAR UTILITY PROVIDER REGARDING REQUIREMENTS PRIOR TO RELOCATION/MODIFICATION. ALL DAMAGED EXISTING UTILITIES SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER.

LAND TABLE			
#	LAND OWNER	ZONE	LAND USE
1	ACM HIGH POINT VI LLC ATTN MICHAEL SCHROEDER ESQ	AURORA	AGRICULTURE
2	CITY AND COUNTY OF DENVER ATTN REAL ESTATE DEPT	DIA	AGRICULTURE
3	ACM HIGH POINT VI LLC	AURORA	COMMERCIAL

LEGEND

- PROPERTY BOUNDARY
- EASEMENT LINE
- GAS LINE
- WATER
- EXISTING FENCE
- EXISTING CONTOUR (1100)

LAMP RYNEARSON
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FORT COLLINS, CO 80525
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LampRynearson.com

AXIS EXPLORATION, LLC

FOR REVIEW

NOT RELEASED FOR CONSTRUCTION

EXISTING CONDITIONS

ACM HIGH POINT MULTI-WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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

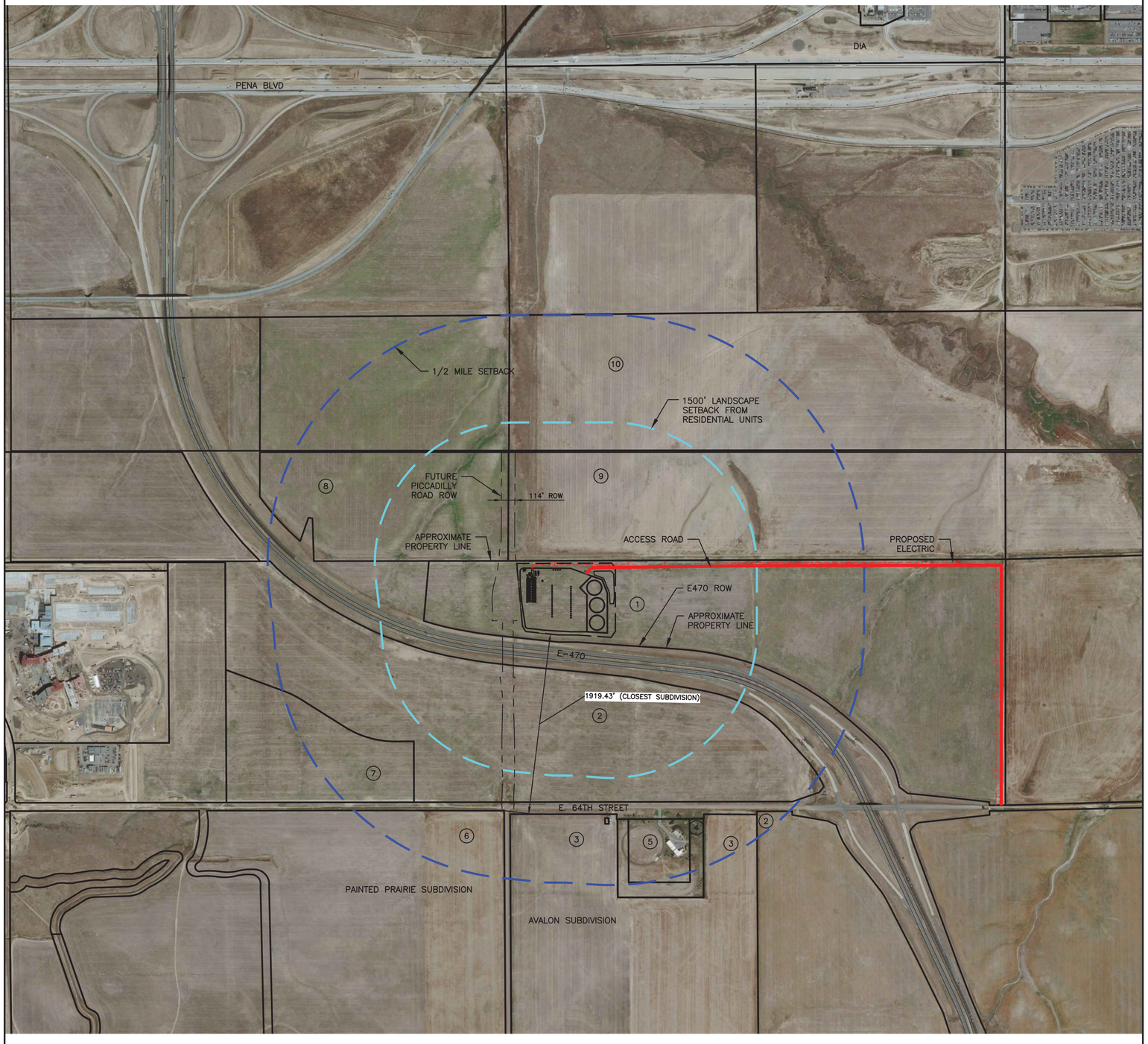
ALL UTILITIES ARE SHOWN BASED ON THE INFORMATION AVAILABLE TO THE ENGINEER. THERE IS NO GUARANTEE ALL FACILITIES ARE SHOWN OR THAT THE LOCATION, DEPTH, AND SIZE OF EACH FACILITY IS CORRECT. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UTILITIES AND SERVICE LINES PRIOR TO CONSTRUCTION.

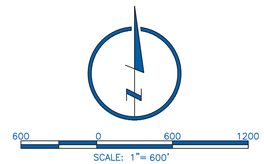
REVISIONS

DESIGNER / DRAFTER: TJS
DATE: 12/2/2019
PROJECT NUMBER: 0218003.08
BOOK AND PAGE:

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LEGEND

- 1/2 MILE SETBACK
- 1500' SETBACK
- 30' WIDE ACCESS ROAD

PROPERTY OWNERS

#	NAME/BUSINESS/ORGANIZATION	PROPERTY ADDRESS	PARCEL NUMBER	MAILING ADDRESS	
1	ACM HIGH POINT VI LLC ATTN MICHAEL SCHROEDER ESQ	AURORA, CO	0182101400001	4100 E MISSISSIPPI AVE STE 500	GLENDALE, CO 80246-3053
2	ACM HIGH POINT VI LLC	AURORA, CO	0182102400005	4100 E MISSISSIPPI AVE STE 500	GLENDALE, CO 80246-3053
3	HILLTOP AT DIA LLC C/O MICHAEL GRAHAM	AURORA, CO	0182112200001	9970 E WALSH PL	DENVER, CO 80247-1963
4	CITY AND COUNTY OF DENVER ATTN REAL ESTATE DEPT	CO	0182100000164	8500 PENA BLVD	DENVER, CO 80249-6340
5	CITY AND COUNTY OF DENVER ATTN REAL ESTATE DEPT	CO	0182100000105	1437 BANNOCK ST	DENVER, CO 80202-5337
6	PAINTED PRAIRIE OWNER LLC C/O PCCP LLC	AURORA, CO	0182111100006	10100 SANTA MONICA BLVD STE 1000	LOS ANGELES,CA 90067-4145
7	ACM HIGH POINT VI LLC	AURORA, CO	0182102400006	4100 E MISSISSIPPI AVE STE 500	GLENDALE, CO 80246-3053
8	CITY AND COUNTY OF DENVER ATTN REAL ESTATE DEPT	CO	0182100000002	8500 PENA BLVD	DENVER, CO 80249-6340
9	CITY AND COUNTY OF DENVER ATTN REAL ESTATE DEPT	CO	0182100000145	8500 PENA BLVD	DENVER, CO 80249-6340
10	DENVER INTERNATIONAL AIRPORT	CO	N/A	8500 PENA BLVD	DENVER, CO 80249-6340

LAMP RYNEARSON
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AXIS EXPLORATION, LLC

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NOT RELEASED FOR CONSTRUCTION

OVERALL SITE PLAN

ACM HIGH POINT MULTI-WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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

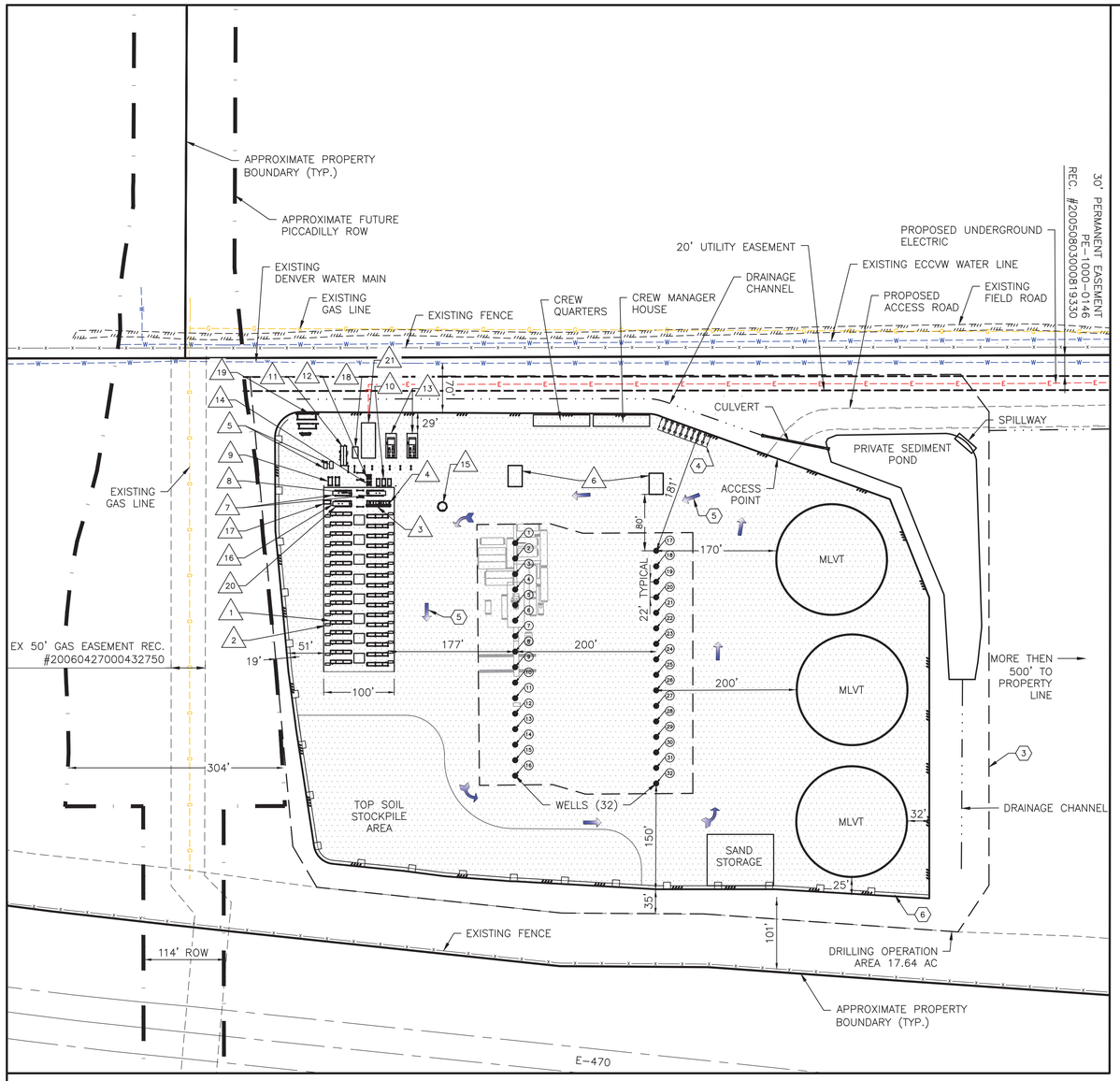
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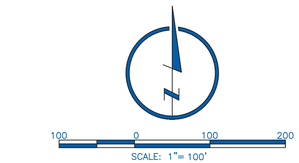
REVISIONS

DESIGNER / DRAFTER
TJS
DATE
12/2/2019
PROJECT NUMBER
0218003.08
BOOK AND PAGE

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4 OF 14

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SCALE: 1"= 100'



EXAMPLE INFORMATIONAL SIGN

EQUIPMENT		
#	COUNT	NAME
1	32	SEPARATOR
2	32	INLET SKID
3	1	HP 2 PHASE
4	1	HP 2 PHASE EXTENSION
5	2	GAS METER BUILDING
6	2	GAS LIFT SHED
7	2	SURGE VESSEL (2PH)
8	2	SURGE VESSEL TEST LINE CONN. ADDITIONS
9	2	OIL PUMP SKID
10	3	WATER PUMP SKID
11	1	OIL & WATER METER BUILDING
12	1	LP SCRUBBER SKID
13	2	LP GAS COMPRESSOR SKID
14	1	FUEL GAS SCRUBBER
15	1	COMBUSTOR – Q UNITS
16	1	MAINTENANCE VESSEL (3PH)
17	1	MAINTENANCE PUMP SKID
18	1	INSTRUMENT AIR
19	1	LAUNCHERS
20	1	HEATER TREATER VESSEL
21	1	ELECTRICAL PAD

GENERAL NOTES:

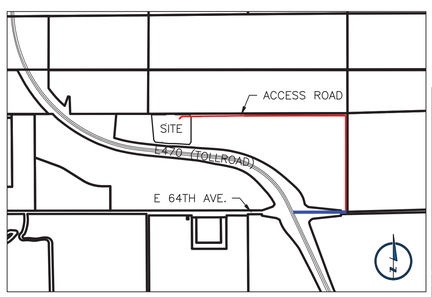
1. PAD AND ACCESS ROAD WILL BE CONSTRUCTED OF 10" SECTION OF CDOT CLASS 6 BASE COARSE AND SHALL BE MAINTAINED AS NECESSARY BY RESPONSIBLE PARTY. CITY OF AURORA WILL NOT MAINTAIN ACCESS ROAD/DRIVES OR PAD.
2. DRILL RIG LAYOUT DETAIL IS ON SHEET 12.
3. PERMANENT OR TEMPORARY LIGHTING ON–SITE SHALL BE DOWNCAST AND SHALL NOT SHINE BEYOND THE BOUNDARIES OF THE DRILLING OPERATION OR THE OIL AND GAS FACILITY.
4. THE PROPERTY OWNER/DEVELOPER SHALL MAINTAIN A DUST FREE SURFACE AS PROVIDED WITHIN THE SITE PLAN/CONTEXTUAL SITE PLAN. OTHERWISE IF THE PROPERTY OWNER/DEVELOPER FAILS TO MAINTAIN A DUST FREE SURFACE AS IDENTIFIED WITHIN THE SITE PLAN CONTEXTUAL SITE PLAN AND FAILS TO CORRECT THE CONDITION AFTER NOTIFICATION OF THE CONDITION, THE PROPERTY OWNER/ DEVELOPER AGREES TO REMOVE IT AND REPLACE IT WITH AN IMPROVED SURFACE SUCH AS CONCRETE OR ASPHALT WITHIN THE SPECIFIED TIME OF THE NOTIFICATION.
5. EMERGENCY INGRESS AND EGRESS – RIGHT–OF–WAY FOR INGRESS AND EGRESS FOR SERVICE AND EMERGENCY VEHICLES IS GRANTED OVER, ACROSS, ON AND THROUGH ANY AND ALL PRIVATE ROADS AND WAYS NOW OR HEREAFTER ESTABLISHED ON THE DESCRIBED PROPERTY.
6. ALL CONSTRUCTION VEHICLES (INCLUDING CONSTRUCTION WORKERS' VEHICLES) SHALL ACCESS THE SITE FROM DESIGNATED HAUL ROUTES AND NOT THROUGH RESIDENTIAL NEIGHBORHOODS.
7. ALL FACILITIES INSTALLED WITHIN THE PAD SITE THAT MAY CONTAIN ANY FLUIDS SHALL BE PLACED WITHIN A BERMED AREA CAPABLE OF HOLDING AT LEAST 150% OF THE MAXIMUM AMOUNT OF FLUIDS THAT THE LARGEST TANK MAY HOLD AT ANY GIVEN TIME.
8. ALL FACILITIES WILL BE PAINTED IN A UNIFORM, NON–CONTRASTING, AND NON–REFLECTIVE COLOR TONES SIMILAR TO THE MUNSELL SOIL COLOR CODING SYSTEM.
9. AXIS EXPLORATION LLC, SHALL UNDERTAKE ALL REASONABLE EFFORTS NECESSARY TO CONTROL THE GERMINATION, GROWTH, AND SPREAD OF NOXIOUS WEEDS, AS DESIGNATED BY THE COLORADO NOXIOUS WEED ACT.
10. AS SOON AS REASONABLY PRACTICABLE, AND IN ANY EVENT WITHIN SIX MONTHS FOLLOWING THE PLUGGING AND ABANDONMENT OF A WELL, OR THE TERMINATION OF ANY OTHER OPERATIONS OR USE OF THE LANDS WHICH RESULTED IN THE DISTURBANCE OF THE SURFACE INCLUDING BUT NOT LIMITED TO DRILLING, COMPLETION, REWORKING, RECOMPILATION, OPERATIONS, AXIS EXPLORATION LLC, SHALL REMEDIATE, RECONTOUR, RESEED AND RESTORE, AS NEAR AS REASONABLY POSSIBLE, ALL AREAS SO DISTURBED TO THE CONDITION WHICH THEY WERE PRIOR TO CONSTRUCTION.
11. OPERATOR HAS PROVIDED THE CITY OF AURORA A SOUND IMPACT PLAN FOR THIS DEVELOPMENT TO ENSURE COMPLIANCE WITH COGCC RULES.
12. ALL BUILDING ADDRESS NUMBERS SHALL COMPLY WITH THE AURORA CITY CODE, ARTICLE VII–NUMBERING OF BUILDINGS.
13. AXIS CERTIFIES THAT ALL STRUCTURES ARE IN COMPLIANCE WITH COLORADO STATE REGULATION 8 CCR 1302–14 REGARDING PLACARDING AND CERTIFICATION OF NON–RESIDENTIAL MODULAR OR FACTORY–BUILT STRUCTURES.
14. FUTURE PICCADILLY ROAD RIGHT–OF–WAY IS APPROXIMATED TO INCLUDE THE LIMITS OF A FUTURE OVERPASS OVER E–470.

KEYNOTES

1. SITE DISTANCE TRIANGLE (OBJECTS AND STRUCTURES SHALL NOT IMPEDE VISION WITHIN THESE SIGHT TRIANGLES. ANY LANDSCAPING SHALL BE RESTRICTED TO LESS THAN 26".
2. 3'–6' SQUARE SIGN, SEE EXAMPLE SIGN ON THIS PAGE.
3. LIMITS OF DISTURBANCE DURING CONSTRUCTION
4. TEMPORARY PARKING AND STAGING AREA
5. 62' PRODUCTION TRUCK MOVEMENTS (SEE NOTE 5 FOR EMERGENCY ACCESS EASEMENT) (ALL MOVEMENTS DISPLAYED BY 62' TRUCK WILL BE EQUAL OR BETTER FOR EMERGENCY ACCESS)
6. SOUND WALL

LEGEND

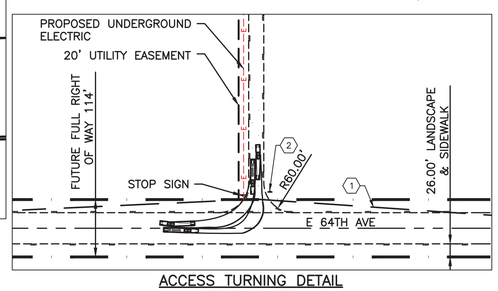
- EDGE OF PAD
- LIMITS OF DISTURBANCE (DA)
- GRAVEL ROAD
- EASEMENT
- FUTURE RIGHT OF WAY
- CLASS 6 BASE COARSE
- DRAINAGE CHANNEL CENTER LINE
- SOUND WALL
- TRAFFIC FLOW ARROW
- WATERLINE
- GAS LINE
- FENCE
- PROPOSED UNDERGROUND ELECTRIC



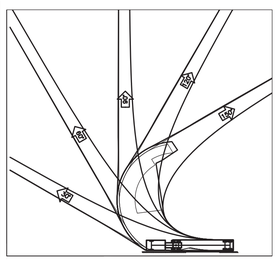
HAUL ROUTE DETAIL
SCALE=1"=2000'

TRAVEL PATH:

TURN RIGHT OFF OF THE IMPROVED ACCESS ROAD ONTO E 64TH AVE AND HEAD WEST FOR 0.2 MILES TO E–470 THE ACCESS RAMPS.



ACCESS TURNING DETAIL
SCALE=1"=150'



62' PRODUCTION TRUCK TEMPLATE

WELLS			
1	ELK 1E–15–1	9	ELK 1E–15–9
2	ELK 1E–15–2	10	ELK 1E–15–10
3	ELK 1E–15–3	11	ELK 1E–15–11
4	ELK 1E–15–4	12	ELK 1E–15–12
5	ELK 1E–15–5	13	ELK 1E–15–13
6	ELK 1E–15–6	14	ELK 1E–15–14
7	ELK 1E–15–7	15	ELK 1E–15–15
8	ELK 1E–15–8	16	ELK 1E–15–16

WELLS			
17	MOOSE 2W–25–1	25	MOOSE 2W–25–9
18	MOOSE 2W–25–2	26	MOOSE 2W–25–10
19	MOOSE 2W–25–3	27	MOOSE 2W–25–11
20	MOOSE 2W–25–4	28	MOOSE 2W–25–12
21	MOOSE 2W–25–5	29	MOOSE 2W–25–13
22	MOOSE 2W–25–6	30	MOOSE 2W–25–14
23	MOOSE 2W–25–7	31	MOOSE 2W–25–15
24	MOOSE 2W–25–8	32	MOOSE 2W–25–16

LAMP RYNEARSON
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AXIS EXPLORATION, LLC

FOR REVIEW

NOT RELEASED FOR CONSTRUCTION

DRILLING & PRODUCTION SITE PLAN

ACM HIGH POINT MULTI–WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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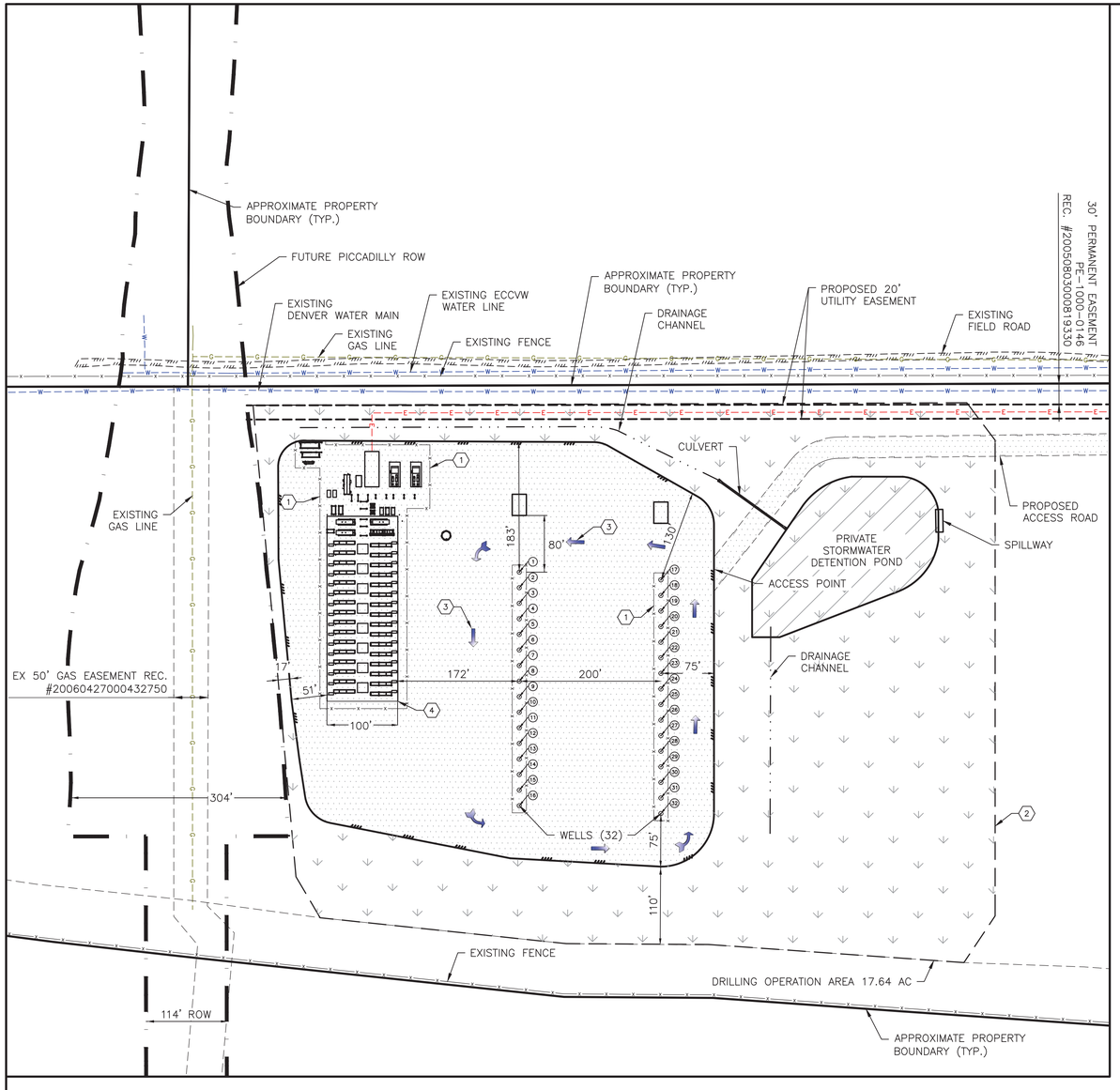
REVISIONS

DESIGNER / DRAFTER: TJS
DATE: 12/2/2019
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BOOK AND PAGE:

SHEET

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NOTE:

1. ALL PAVEMENT REPAIR AND OR REPLACEMENT TO BE PERFORMED PER THE GEOTECHNICAL RECOMMENDATIONS AS OUTLINED IN THE GEOTECHNICAL REPORT. ALL PROPOSED ALTERNATIVE METHODS OF REPAIR AND/OR REPLACEMENT TO BE APPROVED BY OWNER PRIOR TO CONSTRUCTION.
2. ACCESS ROAD AND PAD CONSTRUCTION SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF FIRE APPARATUS (85,000 LBS) UTILIZING THE CDOT ROAD–BASE #6 SPECIFICATION TO PROVIDE FOR ALL WEATHER DRIVING CAPABILITIES, ACCESS ROAD SHALL BE 30' WIDE WITH A 29' INSIDE TURNING RADIUS AT A MINIMUM (SEE PLAN). WHILE CDOT #6 IS SPECIFIED, THE MATERIAL USED TO CONSTRUCT THESE SURFACES MAY BE OF ANY ONE OF, OR A COMBINATION OF, SEVERAL AGGREGATE MATERIALS AVAILABLE. APPROVED MATERIALS INCLUDE PREMIXED ROAD BASE MATERIAL, 1–1.5 ANGULAR INCH RIVER ROCK, CRUSHED GRANITE OR OTHER AGGREGATE WITH NOT LESS THAN ONE–INCH NOMINAL SIZE DESIGNATION AND CDOT ROAD BASE CLASS 6.

AREAS

- RECLAIMED AREA (9.10 ACRES)
- PAD AREA (8.50 ACRES)
- TOTAL DISTURBED AREA (17.64 ACRES)
- CLASS 6 BASE COARSE
- POND

LEGEND

- PROPERTY BOUNDARY
- EDGE OF PAD
- LIMITS OF DISTURBANCE (DA)
- WATERLINE
- 6' FENCE
- FUTURE RIGHT OF WAY
- CENTERLINE DRAINAGE CHANNEL
- TRAFFIC FLOW ARROWS
- GAS LINE
- EASEMENT
- GRAVEL ROAD
- PROPOSED UNDERGROUND ELECTRIC

N

100 0 100 200

SCALE: 1" = 100'



EXAMPLE INFORMATIONAL SIGN

GENERAL NOTES:

1. PAD AND ACCESS ROAD WILL BE CONSTRUCTED OF 10" SECTION OF CDOT CLASS 6 BASE COARSE AND SHALL BE MAINTAINED AS NECESSARY BY RESPONSIBLE PARTY. CITY OF AURORA WILL NOT MAINTAIN ACCESS ROAD/DRIVES OR PAD.
2. DRILL RIG LAYOUT DETAIL IS ON SHEET 12 – DETAILS II.
3. THE TEMPORARY ACCESS ROAD WILL BE UTILIZED DURING THE DRILLING AND PRODUCTION PHASE.
4. PERMANENT OR TEMPORARY LIGHTING ON–SITE SHALL BE DOWNCAST AND SHALL NOT SHINE BEYOND THE BOUNDARIES OF THE DRILLING OPERATION OR THE OIL AND GAS FACILITY.
5. THE PROPERTY OWNER/DEVELOPER SHALL MAINTAIN A DUST FREE SURFACE AS PROVIDED WITHIN THE SITE PLAN/CONTEXTUAL SITE PLAN. OTHERWISE IF THE PROPERTY OWNER/DEVELOPER FAILS TO MAINTAIN A DUST FREE SURFACE AS IDENTIFIED WITHIN THE SITE PLAN CONTEXTUAL SITE PLAN AND FAILS TO CORRECT THE CONDITION AFTER NOTIFICATION OF THE CONDITION, THE PROPERTY OWNER/ DEVELOPER AGREES TO REMOVE IT AND REPLACE IT WITH AN IMPROVED SURFACE SUCH AS CONCRETE OR ASPHALT WITHIN THE SPECIFIED TIME OF THE NOTIFICATION.
6. EMERGENCY INGRESS AND EGRESS – RIGHT–OF–WAY FOR INGRESS AND EGRESS FOR SERVICE AND EMERGENCY VEHICLES IS GRANTED OVER, ACROSS, ON AND THROUGH ANY AND ALL PRIVATE ROADS AND WAYS NOW OR HEREAFTER ESTABLISHED ON THE DESCRIBED PROPERTY.
7. ALL CONSTRUCTION VEHICLES (INCLUDING CONSTRUCTION WORKERS' VEHICLES) SHALL ACCESS THE SITE FROM DESIGNATED HAUL ROUTES AND NOT THROUGH RESIDENTIAL NEIGHBORHOODS.
8. ALL FACILITIES INSTALLED WITHIN THE PAD SITE THAT MAY CONTAIN ANY FLUIDS SHALL BE PLACED WITHIN A BERMED AREA CAPABLE OF HOLDING AT LEAST 150% OF THE MAXIMUM AMOUNT OF FLUIDS THAT THE LARGEST TANK MAY HOLD AT ANY GIVEN TIME..
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13. ALL BUILDING ADDRESS NUMBERS SHALL COMPLY WITH THE AURORA CITY CODE, ARTICLE VII–NUMBERING OF BUILDINGS.
14. AXIS CERTIFIES THAT ALL STRUCTURES ARE IN COMPLIANCE WITH COLORADO STATE REGULATION 8 CCR 1302–14 REGARDING PLACARDING AND CERTIFICATION OF NON–RESIDENTIAL MODULAR OR FACTORY–BUILT STRUCTURES.

KEYNOTES

1. 6' CHAINLINK FENCE
2. LIMITS OF DISTURBANCE DURING CONSTRUCTION
3. 62' PRODUCTION TRUCK MOVEMENTS (SEE NOTE 6 FOR EMERGENCY ACCESS EASEMENT) (ALL MOVEMENTS DISPLAYED BY 62' TRUCK WILL BE EQUAL OR BETTER FOR EMERGENCY ACCESS)
4. CONTAINMENT BERM

WELLS				WELLS			
1	ELK 1E–15–1	9	ELK 1E–15–9	17	MOOSE 2W–25–1	25	MOOSE 2W–25–9
2	ELK 1E–15–2	10	ELK 1E–15–10	18	MOOSE 2W–25–2	26	MOOSE 2W–25–10
3	ELK 1E–15–3	11	ELK 1E–15–11	19	MOOSE 2W–25–3	27	MOOSE 2W–25–11
4	ELK 1E–15–4	12	ELK 1E–15–12	20	MOOSE 2W–25–4	28	MOOSE 2W–25–12
5	ELK 1E–15–5	13	ELK 1E–15–13	21	MOOSE 2W–25–5	29	MOOSE 2W–25–13
6	ELK 1E–15–6	14	ELK 1E–15–14	22	MOOSE 2W–25–6	30	MOOSE 2W–25–14
7	ELK 1E–15–7	15	ELK 1E–15–15	23	MOOSE 2W–25–7	31	MOOSE 2W–25–15
8	ELK 1E–15–8	16	ELK 1E–15–16	24	MOOSE 2W–25–8	32	MOOSE 2W–25–16

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INTERIM RECLAIMED SITE PLAN

ACM HIGH POINT MULTI–WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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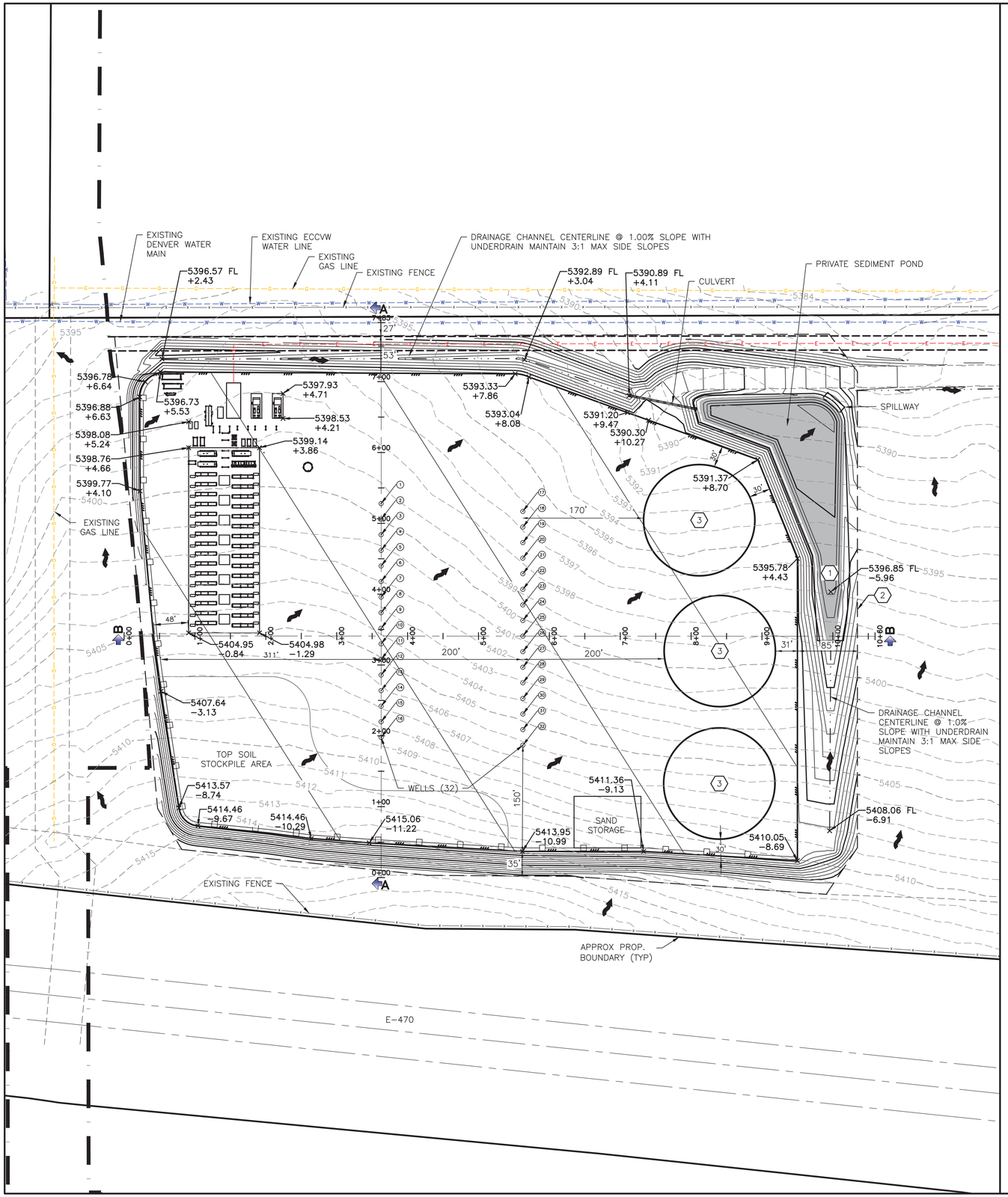
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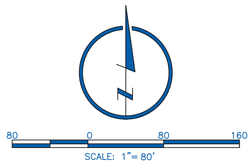
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6 OF 14

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NOTES

1. SEE SHEET 8 FOR CROSS SECTIONS.
2. MAINTAIN EXISTING GRADES NOT WITHIN RECLAIMED AREA LIMITS UNLESS OTHERWISE NOTED.
3. DAYLIGHT FROM LIMITS OF PAD TO LIMITS OF DISTURBANCE.
4. ALL SPOT ELEVATIONS ARE TOP OF GRAVEL/GROUND UNLESS OTHERWISE NOTED.

KEY NOTES

(1) POND ACCESS

(2) LIMITS OF DISTURBANCE DURING CONSTRUCTION

(3) MODULAR LARGE VOLUME STORAGE TANKS (MLVT). TANKS 15' HIGH. TANK PAD (TO BE BASE GRADED PER PLAN, CONTRACTOR TO FINAL GRADE AS NEEDED)

LEGEND

- EDGE OF GRAVEL
- LIMITS OF DISTURBANCE (DA)
- GRAVEL ROAD
- SOUND WALL
- FUTURE RIGHT OF WAY
- CHANNEL CENTERLINE
- DRAINAGE FLOW ARROWS
- 5424.89 +6.84 — SPOT ELEVATION DEPTH OF CUT/FILL
- PROPOSED ELECTRIC
- 100-YR POND ELEVATION

WELLS				WELLS			
(1)	ELK 1E-15-1	(9)	ELK 1E-15-9	(17)	MOOSE 2W-25-1	(25)	MOOSE 2W-25-9
(2)	ELK 1E-15-2	(10)	ELK 1E-15-10	(18)	MOOSE 2W-25-2	(26)	MOOSE 2W-25-10
(3)	ELK 1E-15-3	(11)	ELK 1E-15-11	(19)	MOOSE 2W-25-3	(27)	MOOSE 2W-25-11
(4)	ELK 1E-15-4	(12)	ELK 1E-15-12	(20)	MOOSE 2W-25-4	(28)	MOOSE 2W-25-12
(5)	ELK 1E-15-5	(13)	ELK 1E-15-13	(21)	MOOSE 2W-25-5	(29)	MOOSE 2W-25-13
(6)	ELK 1E-15-6	(14)	ELK 1E-15-14	(22)	MOOSE 2W-25-6	(30)	MOOSE 2W-25-14
(7)	ELK 1E-15-7	(15)	ELK 1E-15-15	(23)	MOOSE 2W-25-7	(31)	MOOSE 2W-25-15
(8)	ELK 1E-15-8	(16)	ELK 1E-15-16	(24)	MOOSE 2W-25-8	(32)	MOOSE 2W-25-16

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AXIS EXPLORATION, LLC

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DRILLING & PRODUCTION GRADING PLAN

ACM HIGH POINT MULTI-WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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REVISIONS

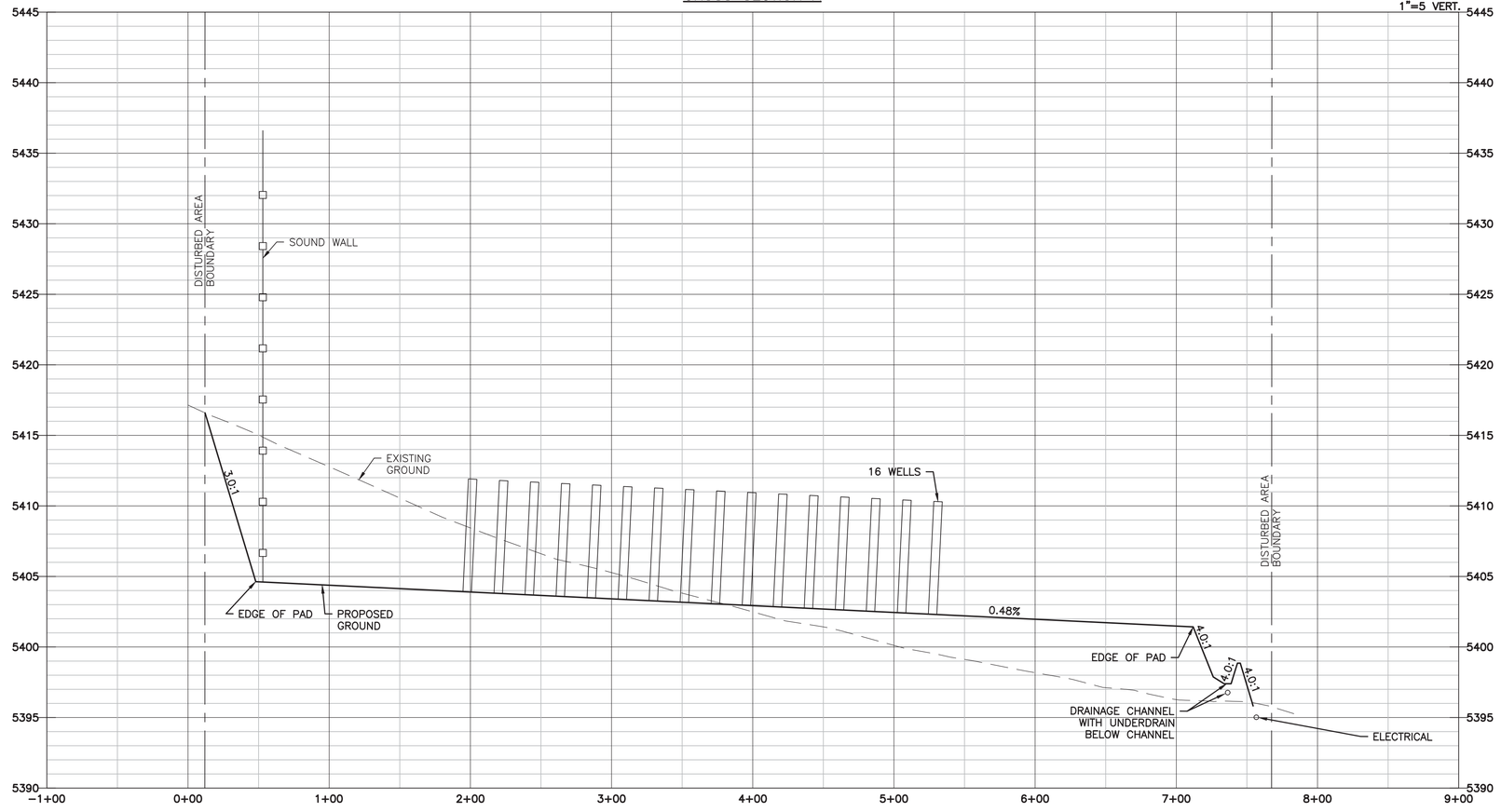
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PROJECT NUMBER: 0218003.08
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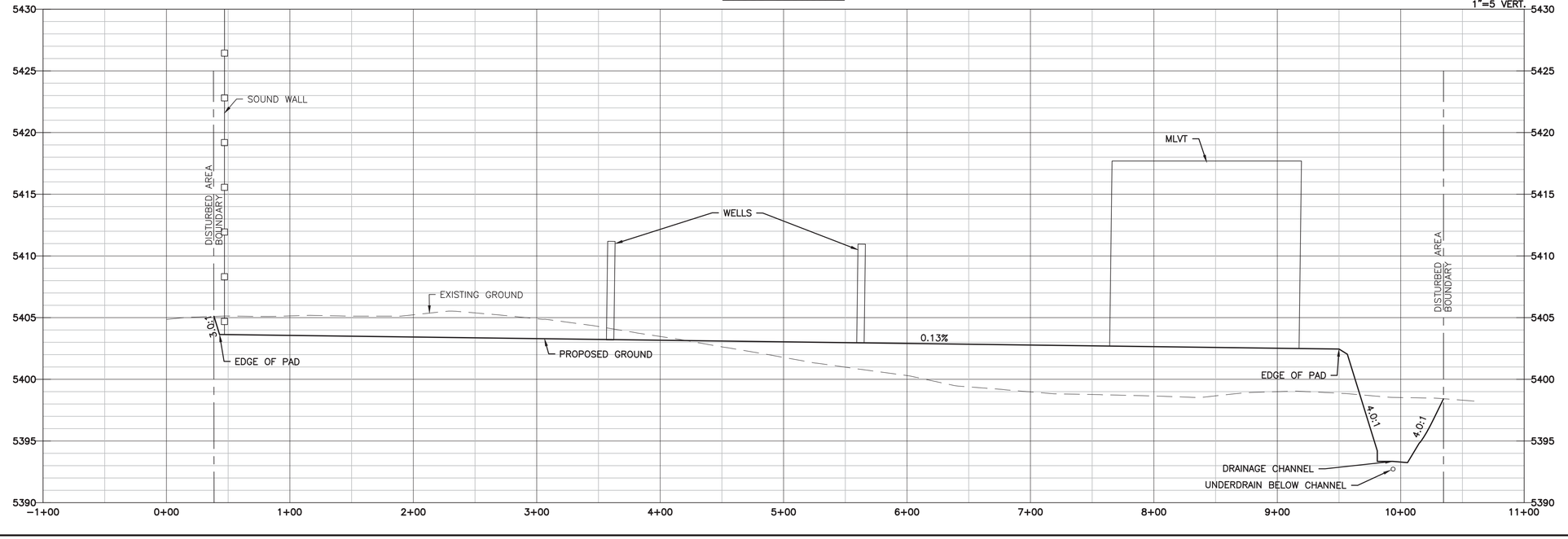
CROSS SECTION A

SCALES: 1"=50 HOR.
1"=5 VERT.



CROSS SECTION B

SCALES: 1"=50 HOR.
1"=5 VERT.



GENERAL NOTE

1. AXIS CERTIFIES THAT ALL STRUCTURES ARE IN COMPLIANCE WITH COLORADO STATE REGULATION 8 CCR 1302−14 REGARDING PLACARDING AND CERTIFICATION OF NON−RESIDENTIAL MODULAR OR FACTORY−BUILT STRUCTURES.

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DRILLING & PRODUCTION
CROSS SECTIONS

ACM HIGH POINT MULTI−WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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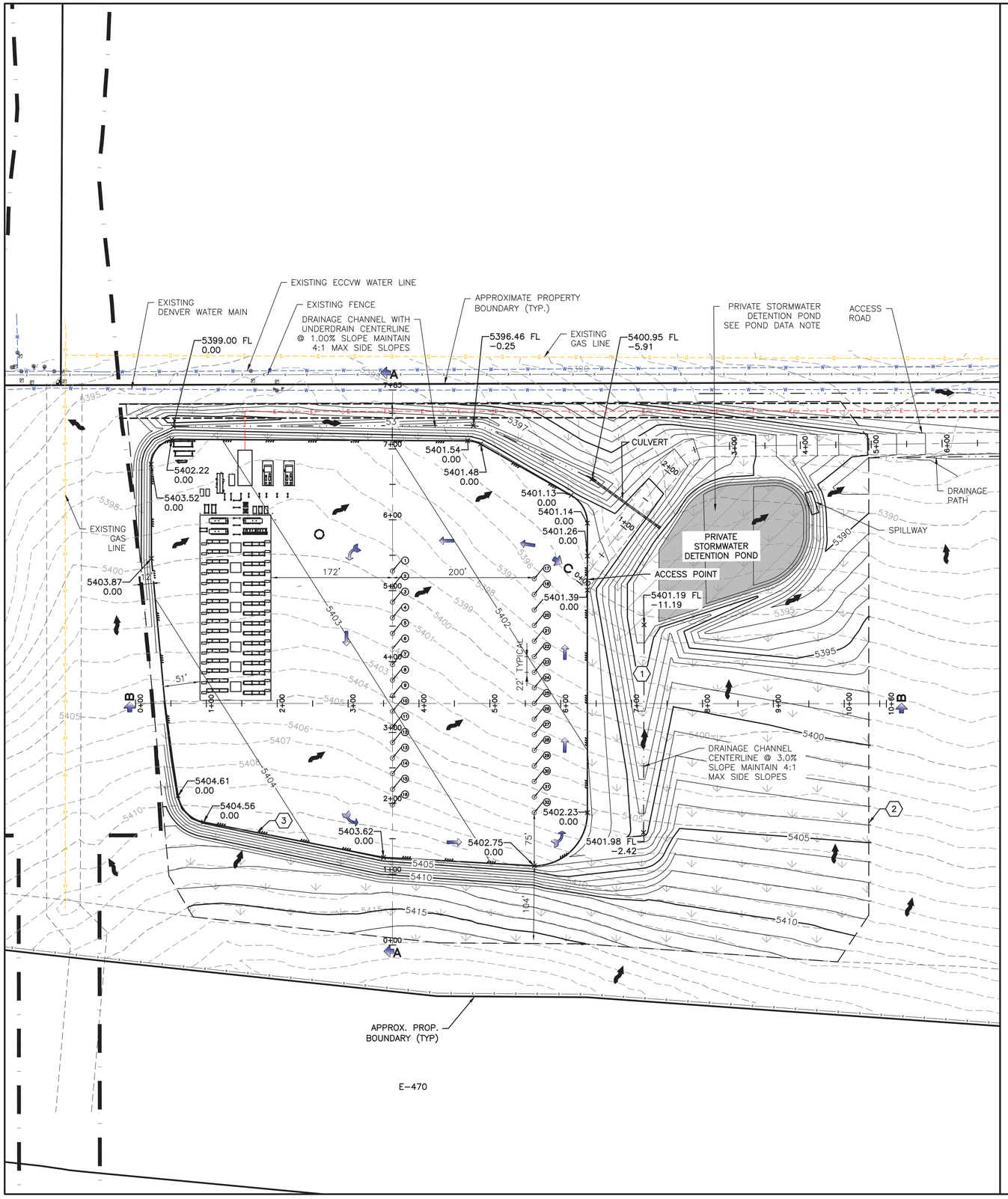
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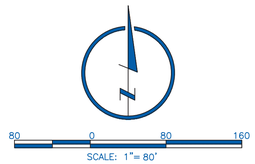
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NOTES

1. SEE SHEET 10 FOR CROSS SECTIONS.
2. MAINTAIN EXISTING GRADES NOT WITHIN RECLAIMED AREA LIMITS UNLESS OTHERWISE NOTED.
3. DAYLIGHT FROM LIMITS OF PAD TO LIMITS OF DISTURBANCE.
4. ALL SPOT ELEVATIONS ARE TOP OF GRAVEL/GROUND UNLESS OTHERWISE NOTED.

DETENTION POND DATA

4:1 MAX SIDE SLOPES
SPILLWAY CREST ELEV. = 5394'
SPILLWAY CREST WIDTH = 38.0'
SPILLWAY TOP WIDTH = 40.8'
SPILLWAY DEPTH = 1.0'
SPILLWAY SIDE SLOPES = 4:1
BOTTOM OF POND ELEV. = 5390'
REQUIRED STORAGE CAPACITY = 0.902 AC−FT
PROVIDED STORAGE CAPACITY = 0.956 AC−FT

LEGEND

- EDGE OF GRAVEL
- LIMITS OF DISTURBANCE (DA)
- ROAD
- FUTURE RIGHT OF WAY
- CHANNEL CENTERLINE
- ×5424.89 +6.84 — SPOT ELEVATION DEPTH OF CUT/FILL
- TRAFFIC FLOW ARROW
- DRAINAGE FLOW ARROW

AREAS

- RECLAIMED AREA (9.14 ACRES)
- DETENTION POND (0.62 ACRES)
- 100−YR POND ELEVATION (0.69 ACRES)

KEYNOTES

1. POND ACCESS
2. LIMITS OF DISTURBANCE
3. LIMITS OF PRODUCTION PAD

WELLS			
1	ELK 1E−15−1	9	ELK 1E−15−9
2	ELK 1E−15−2	10	ELK 1E−15−10
3	ELK 1E−15−3	11	ELK 1E−15−11
4	ELK 1E−15−4	12	ELK 1E−15−12
5	ELK 1E−15−5	13	ELK 1E−15−13
6	ELK 1E−15−6	14	ELK 1E−15−14
7	ELK 1E−15−7	15	ELK 1E−15−15
8	ELK 1E−15−8	16	ELK 1E−15−16

WELLS			
17	MOOSE 2W−25−1	25	MOOSE 2W−25−9
18	MOOSE 2W−25−2	26	MOOSE 2W−25−10
19	MOOSE 2W−25−3	27	MOOSE 2W−25−11
20	MOOSE 2W−25−4	28	MOOSE 2W−25−12
21	MOOSE 2W−25−5	29	MOOSE 2W−25−13
22	MOOSE 2W−25−6	30	MOOSE 2W−25−14
23	MOOSE 2W−25−7	31	MOOSE 2W−25−15
24	MOOSE 2W−25−8	32	MOOSE 2W−25−16

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INTERIM RECLAIMED GRADING PLAN

ACM HIGH POINT MULTI−WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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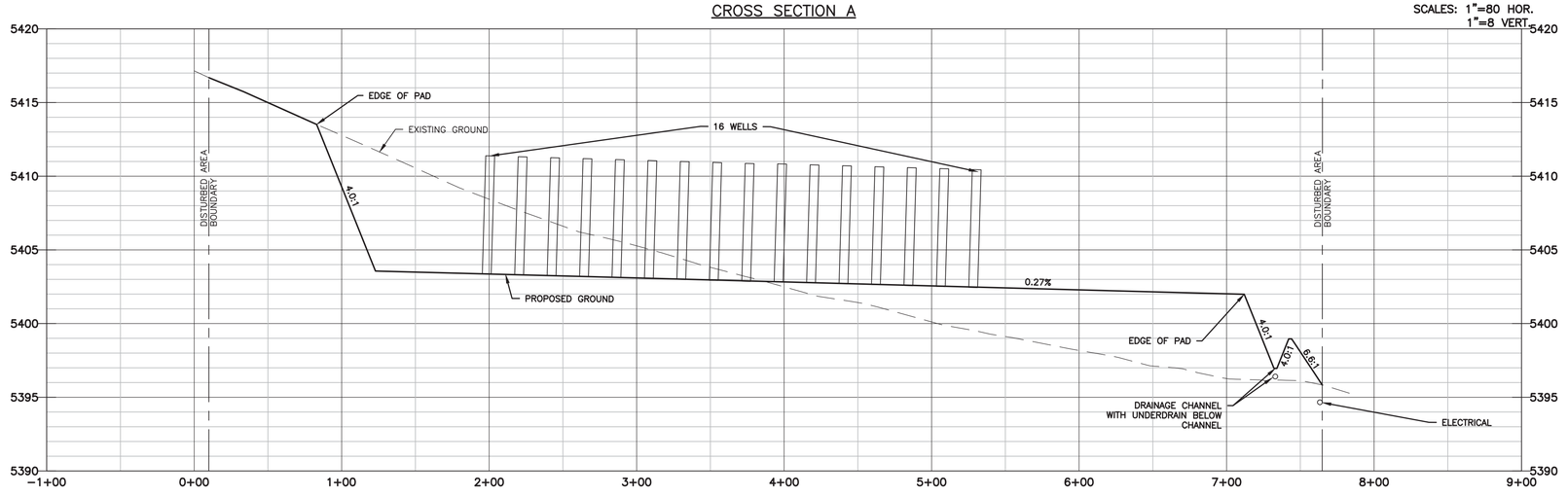
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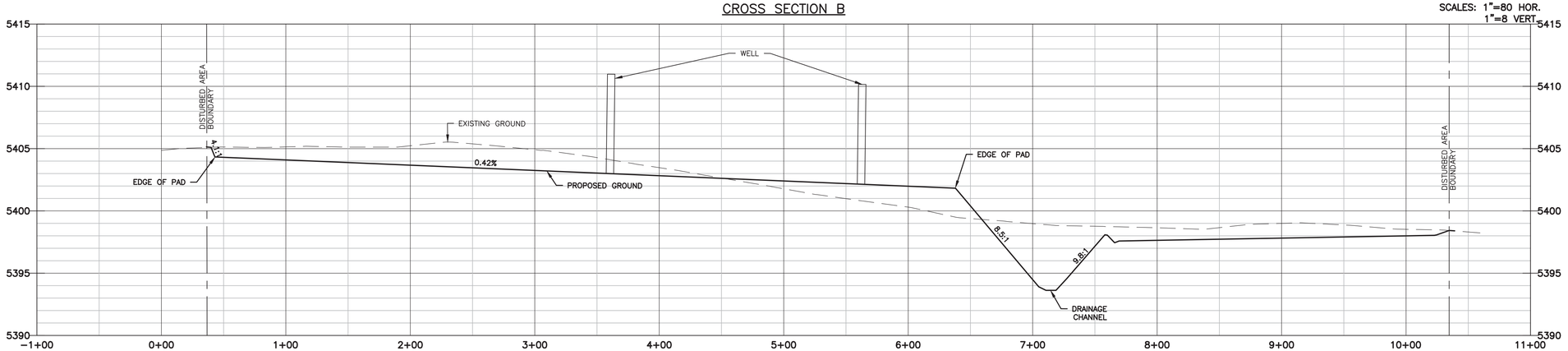
CROSS SECTION A

SCALES: 1"=80 HOR.
1"=8 VERT.



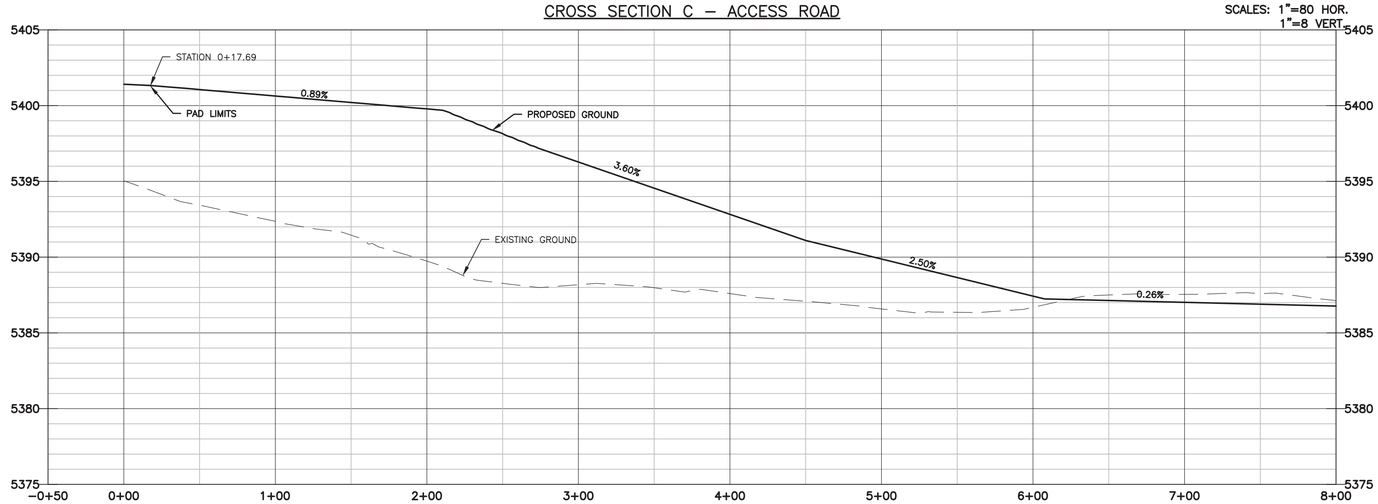
CROSS SECTION B

SCALES: 1"=80 HOR.
1"=8 VERT.



CROSS SECTION C – ACCESS ROAD

SCALES: 1"=80 HOR.
1"=8 VERT.



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INTERIM RECLAIMED CROSS SECTIONS

ACM HIGH POINT MULTI–WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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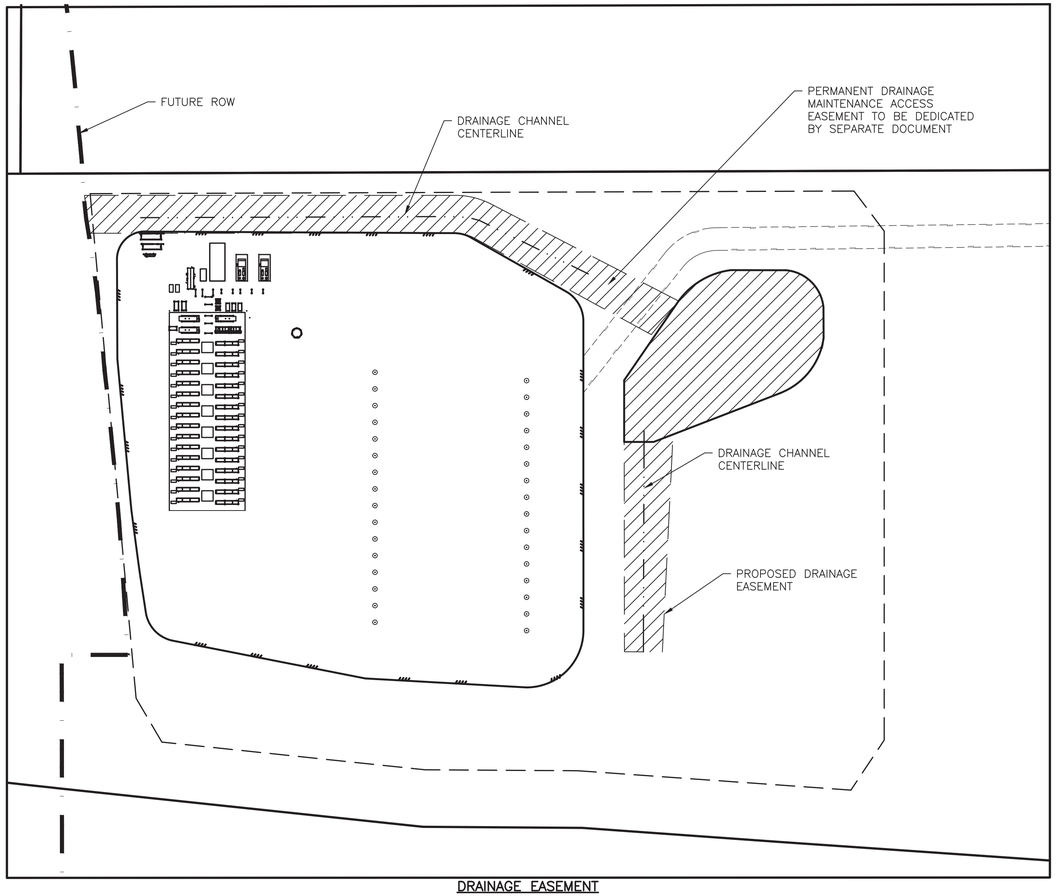
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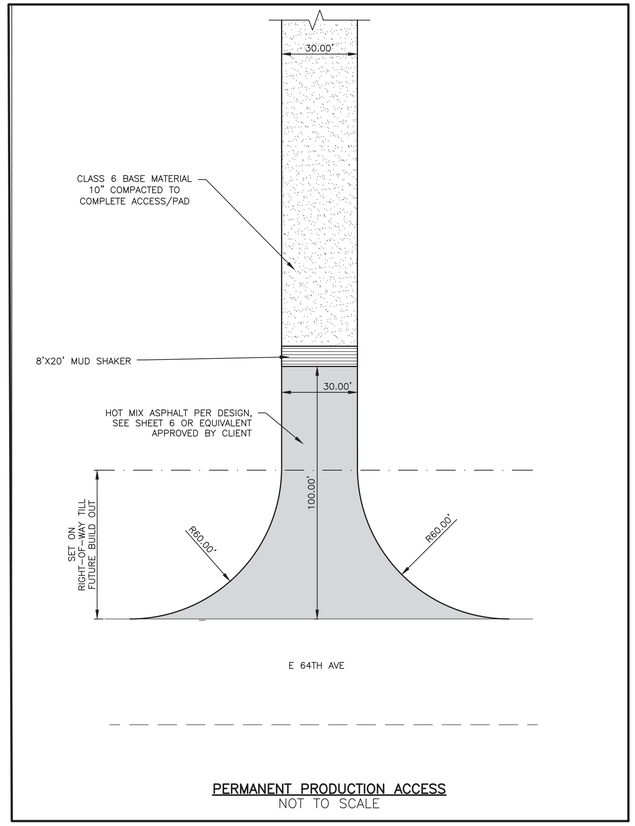
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DRAINAGE EASEMENT
SCALE: 1" = 100'



PERMANENT PRODUCTION ACCESS
NOT TO SCALE

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DETAILS I

ACM HIGH POINT MULTI-WELL PAD
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Whisper Temporary Sound Barriers






Whisper acoustic barriers are the perfect solution for temporary noise pollution for many reasons:

- Robust product construction stands up to repeated field use.
- Modular design and erection provide site layout flexibility for changing needs.
- Engineered solutions ensure results and save valuable time and money
- We offer acoustical services to determine noise pollution risks and optimum solutions.
- We operate our own crews and equipment for outstanding service for installation, maintenance and removal of barriers.
- STC value → 33

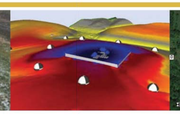
TruHorizon maintains a library of acoustic signatures for all drilling, completion and production phases so each barrier design can be customized for all anticipated activities.



TruHorizon Environmental Solutions
201 W. Ranch Ct.
Weatherford, TX 76088
Phone: (855) 86 NOISE
E-mail: info@truhorizon.com

TruHorizon

Integrated Services. Advanced Solutions.


Reach Compliance with the Minimum Mitigation Required

TruHorizon will always recommend a solution that mitigates the minimum required to achieve compliance. Our front end assessments result in the high value, cost-effective option. Typically, other noise control providers won't make recommendations, but rather construct a sound wall around your site, selling you more products and implementation than needed. Our M3 solution is different and guarantees your compliance with the minimum investment required.

The TruHorizon M3 Solution

The M3 Noise Solution is comprised of a proprietary assessment process, custom solution design, premium and industry standard products, skilled execution and monitoring and inspection services. Its key phases are: measure, model, mitigate.

Measure
Our measurement process is the first step in identifying the minimum mitigation required to achieve compliance. This assessment phase includes a 72-hour ambient survey and the development of a sound signature report with noise analysis.

Model
Next, a Sound Impact Assessment™ is done to predictively assess your work site's noise mitigation needs. Topography and satellite imagery are entered into a CAD-based 3D model along with noise signature data of the equipment to be used on the work site. Then, use of contour lines enable accurate predictions of sound levels from nearby operations. These insights inform the design of a superior, cost-efficient mitigation plan.

Mitigate
Only the mitigation required to achieve compliance is recommended. In most cases, mitigation is only needed for the loudest equipment and not the entire work site. We carry premium and industry standard field-proven noise suppression technology. Our skilled execution ensures your work site will have a clean, professional appearance and your compliance is guaranteed.

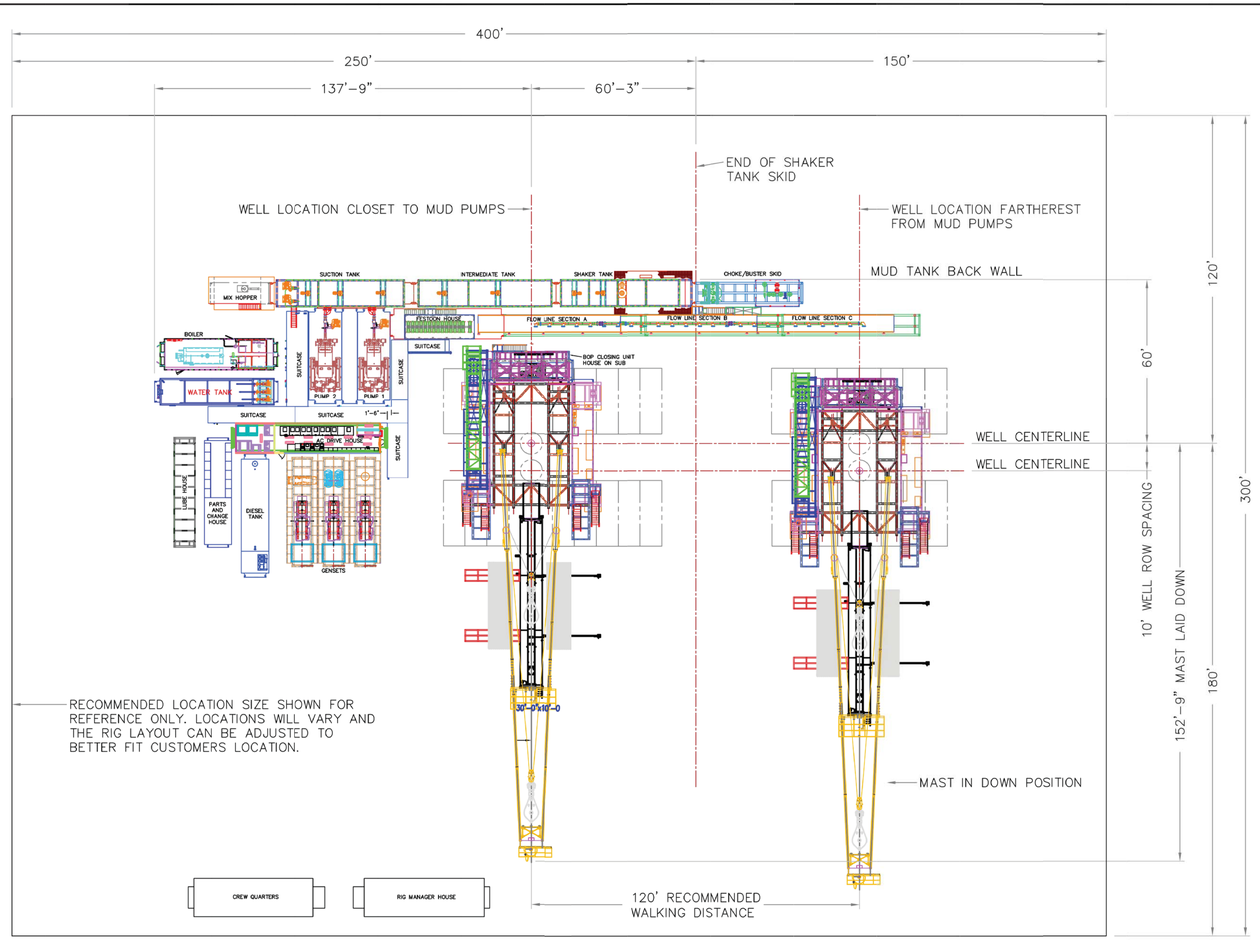
Compliance Assurance

To assure your ongoing compliance, TruHorizon provides monitoring and inspection services, delivering robust reports that demonstrate your due diligence was completed. We also offer a Compliance Data Management application that serves as a central repository to track your critical environmental and regulatory information, while creating a powerful audit trail verifying your compliance.

Knowledge and professionalism to advocate on your behalf.

TruHorizon is a proactive partner with deep expertise in local, state and federal regulations. Our on-staff experts are experienced in writing ordinances and have the knowledge to negotiate with regulatory officials on your behalf. With professionalism and diplomacy, we can represent your interests at town hall meetings and enhance your outreach with the community and media.





0 10 20 30 40 50 100 150 200

SCALE IN FEET

ANTICIPATED RIG LAYOUT
NOT TO SCALE

REVISION NOTES:			
–	PROCESSED	NAME	DATE
	DRAWN BY	LEN	5–12–11
	CHECKED BY	–	–
	APPROVED BY	–	–

PATTERSON-UTI DRILLING COMPANY LLC

TITLE:
RIG 335
BASIC PLOT PLAN
WITH 3 MUD TANK LAYOUT

CAD SCALE:	DRG SIZE:	SHEET:	DRG.	REV:
450	A	1 OF 1	R0335.01.001	0

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DETAILS II

ACM HIGH POINT MULTI–WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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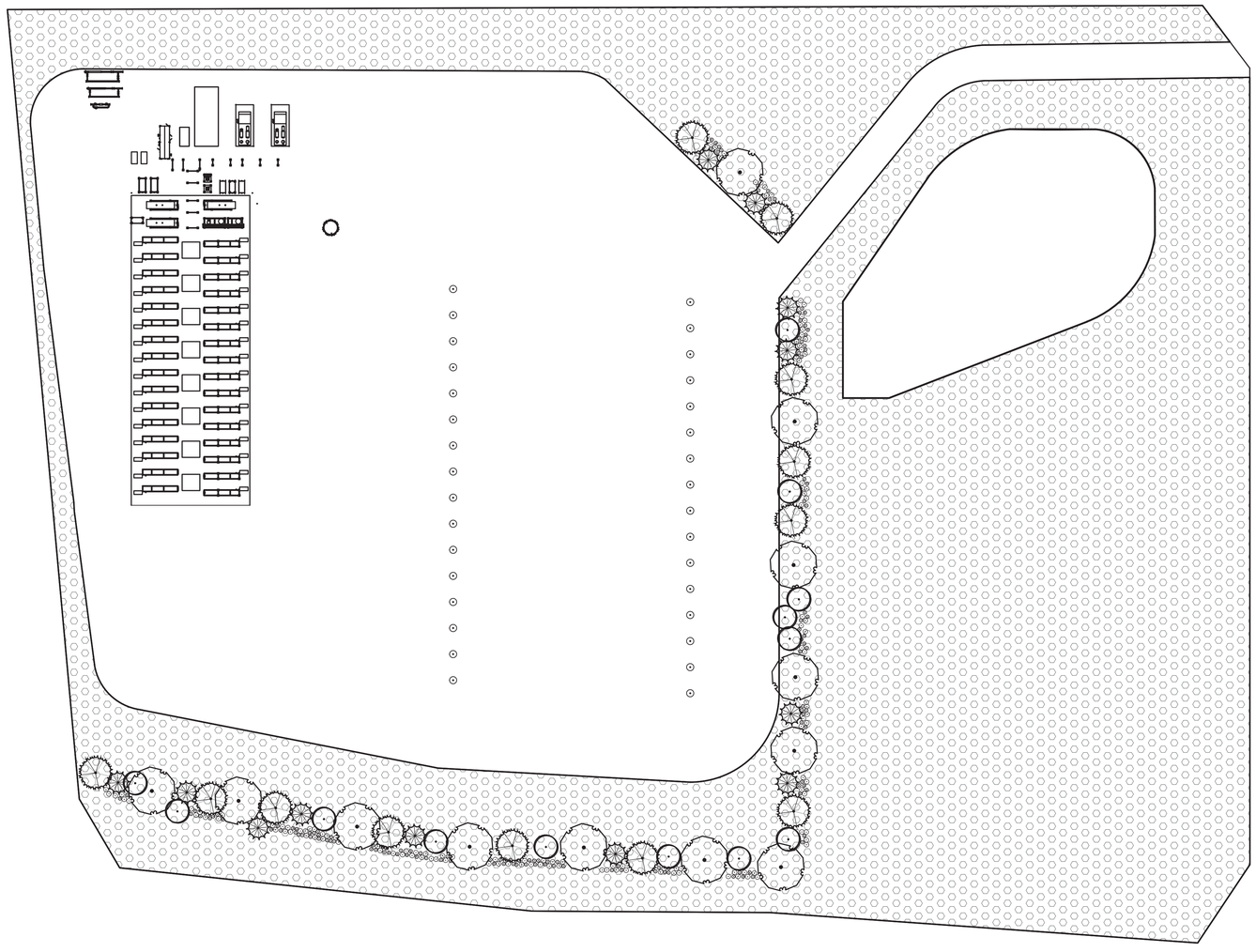
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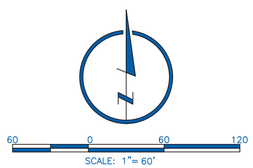
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PLANT SCHEDULE

TREES	CODE	COMMON NAME	BOTANICAL NAME	PLANTING SIZE	METHOD	HEIGHT	WIDTH	QTY
	AA3	AMUR MAPLE	ACER GINNALA	2" CAL.	B&B	15–20 FT	20–30 FT	3
	JS	COLOGREEN JUNIPER	JUNIPERUS SCOPULORUM 'COLOGREEN'	6'–7' HT.	B&B	10–15 FT	5–10 FT	26
	GS2	SKYLINE HONEY LOCUST	GLEDITSIA TRIACANTHOS 'SKYLINE'	2" CAL.	B&B	30–40 FT	20–30 FT	5
	PP	PONDEROSA PINE	PINUS PONDEROSA	6'–7' HT.	B&B	60–70'	20–30FT	11
COLORADO	**CODE**	**COMMON NAME**	**BOTANICAL NAME**	**PLANTING SIZE**	**METHOD**	**HEIGHT**	**WIDTH**	**QTY**
	SA	ANTHONY WATERER SPIRAEA	SPIRAEA X BUMALDA 'ANTHONY WATERER'	5 GAL	CONT.	4–6 FT	4–6 FT	42
	AG5	BIG BLUE STEM	ANDROPOGON GERARDII	5 GAL	CONT.	6–8 FT	2–3 FT	14
	JB	BUFFALO JUNIPER	JUNIPERUS SABINA 'BUFFALO'	5 GAL	CONT.	1–1.5 FT	3–5 FT	106
	EC	BURNING BUSH	EUONYMUS ALATUS 'COLES COMPACT'	5 GAL	CONT.	6–8 FT	5–10 FT	21
	IC	JAPANESE BLOOD GRASS	IMPERATA CYLINDRICA	5 GAL	CONT.	2–4 FT	2–4 FT	42
GROUND COVERS	**CODE**	**COMMON NAME**	**BOTANICAL NAME**	**PLANTING SIZE**	**METHOD**			**QTY**
	NA SE	(30%)WESTERN WHEATGRASS	PASCOPYRUM SMITHII		SEED			470,000 SF
		(30%)INDIAN RICEGRASS	ACHANTHERUM HYMENOIDES					
		(20%)SLENDER WHEATGRASS	ELYMUS TRACHYCAUIUS					
		(20%)SAND DROPSEED	SPOROBOLUS CRYPTANRUS					



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LANDSCAPE PLAN

ACM HIGH POINT MULTI–WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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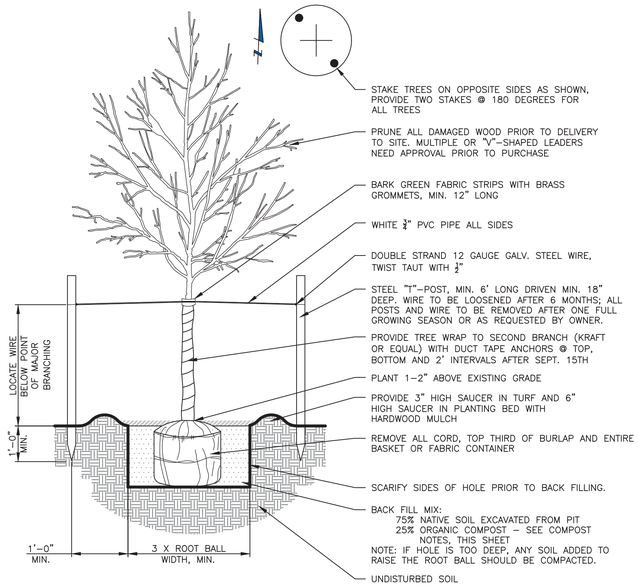
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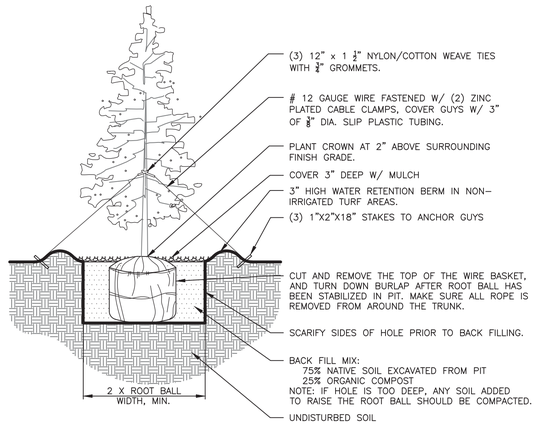
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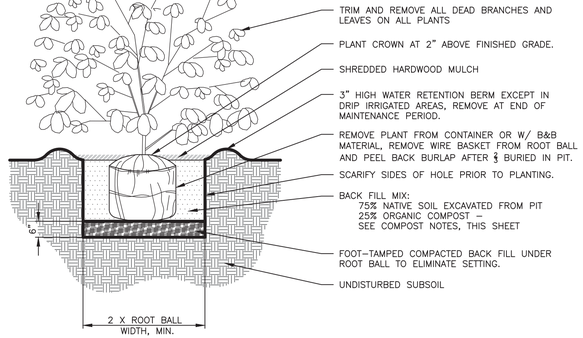
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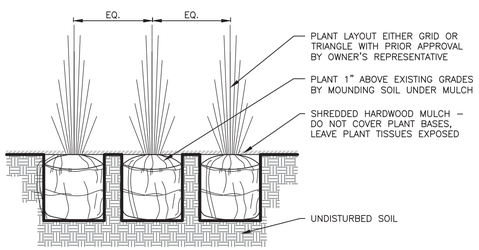
1 DECIDUOUS TREE PLANTING & STAKING DETAIL
SCALE: NOT TO SCALE



2 EVERGREEN TREE PLANTING & STAKING DETAIL
SCALE: NOT TO SCALE



3 TYPICAL SHRUB PLANTING DETAIL
SCALE: NOT TO SCALE



4 TYPICAL PERENNIAL AND ORNAMENTAL GRASS PLANTING DETAIL
SCALE: NOT TO SCALE

GENERAL NOTES

1. CONTRACTOR TO VERIFY LOCATION OF ALL PROPOSED AND EXISTING VAULTS, ELECTRICAL DUCT BANKS, MANHOLES, CONDUIT AND PIPING, DRAINAGE STRUCTURES AND OTHER UTILITIES PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY PROPOSED LANDSCAPE IMPROVEMENTS WHEN CONFLICTS EXIST BETWEEN LANDSCAPE IMPROVEMENTS AND EXISTING OR PROPOSED UTILITIES OR SITE FEATURES SUCH AS WALKS, ROADS, BUILDINGS OR EXISTING TREES TO REMAIN.
3. VERIFY LOCATION OF ALL BUILDINGS, WALLS, ROADS AND CURBS AFFECTING LANDSCAPE SCOPE OF WORK WITH ARCHITECTS AND CONTRACTOR ENGINEER'S DRAWINGS.
4. REFERENCE TO NORTH REFERS TO TRUE NORTH, REFERENCE TO SCALE IS FOR FULL-SIZED DRAWINGS ONLY. DO NOT SCALE FROM REDUCED DRAWINGS.
5. DIMENSIONS TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
6. WHERE NOT SHOWN ON THE PLANTING PLANS, SEE CONTRACTOR ENGINEER'S AND ARCHITECT'S DRAWINGS FOR BUILDING FOUNDATIONS SETBACKS, BOUNDARIES, SUBSURFACE AND ABOVE GRADE UTILITIES.

TREE PLANTING NOTES

1. PROVIDE MATCHING SIZES AND FORMS FOR EACH SPECIES OF TREE INSTALLED ON GRID OR SPACED EQUALLY IN ROWS AS SHOWN ON DRAWINGS. ALIGN TREES ACROSS WALKS. ADJUST SPACING AS NECESSARY, SUBJECT TO REVIEW BY THE LANDSCAPE ARCHITECT.
2. FORM 30 INCH WATERING BASIN AROUND ALL TREES NOT INSTALLED IN LAWN OR PAVED AREAS. FILL BASIN WITH MULCH PER TREE PLANTING DETAIL, THIS SHEET.
3. REPLACEMENT OF UNACCEPTABLE PLANT MATERIAL: THE CONTRACTOR'S RESPONSIBILITY FOR REPLACEMENT OF UNACCEPTABLE PLANT MATERIAL SHALL EXTEND FOR TWO (2) YEARS AFTER ALL PLANT MATERIAL IS ACCEPTED BY THE ENGINEER.
4. SUBMITTALS: THE CONTRACTOR SHALL PLANT TREES THAT HAVE BEEN GROWN IN USDA COLD HARDINESS ZONE 5 OR NORTHERLY. A CERTIFICATE OF ORIGIN MUST BE SUBMITTED FOR EACH SPECIES OF TREE THAT IS TO BE PLANTED. THE CONTRACTOR SHALL ALSO SUBMIT HIS LANDSCAPING PLAN PRIOR TO STARTING WORK IF IT VARIES FROM THE BID PLAN.
5. MULCH: THE CONTRACTOR SHALL PLACE 3 CUBIC FEET OF TRIPLE SHREDDED HARDWOOD MULCH IN A 3-FOOT DIAMETER RING AT THE BASE OF EACH TREE THAT IS PLANTED. ANY MULCH PLACED IN EXCESS OF THE REQUIREMENTS SHALL BE AT THE CONTRACTORS EXPENSE.
6. IN LIEU OF IRRIGATION, ALL NEWLY PLANTED TREES TO RECEIVE "TREEGATOR SLOW RELEASE WATERING BAG" BY SPECTRUM PRODUCTS, INC. OR OWNER APPROVED EQUAL. CONTRACTOR SHALL INSTALL AND FILL WATERING BAGS PER MANUFACTURERS SPECIFICATIONS.

PLANTING NOTES

1. INSTALL ALL TREES A MINIMUM OF FOUR (4) FEET FROM BACK OF CURB, EDGE OF WALL OR PAVING.
2. PLANT NAMES ARE ABBREVIATED ON THE DRAWINGS. SEE PLANT LIST FOR KEY AND CLASSIFICATION.
3. PLACE A 3" DEPTH LAYER OF TRIPLE SHREDDED HARDWOOD MULCH ON ALL PLANTING AREAS EXCEPT LAWN, SUBMIT SAMPLE TO LANDSCAPE ARCHITECT FOR APPROVAL.
4. LOCATION OF ALL PLANTING IS DIAGRAMMATIC. DO NOT WILLFULLY LOCATE PLANTINGS WHERE CONFLICTS EXIST WITH UTILITIES OR THE BUILDING.
5. EXISTING AND IMPORTED SOIL FOR PLANTING AREAS SHALL BE FREE FROM CHEMICALS, CONSTRUCTION DEBRIS AND TRASH, ROCKS AND OTHER MATERIAL LARGER THAN ONE INCH IN DIAMETER.
6. PLANT QUANTITIES ARE SHOWN FOR THE CONVENIENCE TO THE CONTRACTOR. IF THERE ARE DISCREPANCIES BETWEEN THE PLAN AND NOTES, THE PLANS SHALL GOVERN.
7. ALL PLANTED AREAS TO BE AMENDED PER AN AGRICULTURAL/SOIL SUITABILITY TEST, PAID FOR BY OWNER. FOR BID PURPOSES CONTRACTOR SHALL ESTIMATE SPREADING SOIL AMENDMENT AT THE RATE OF 6 CUBIC YARDS PER 1,000 SQUARE FEET. TILL INTO THE TOP OF SOIL TO A MINIMUM DEPTH OF 6". RAKE TO A SMOOTH, EVEN SURFACE PER THE GRADING PLANS.

MAINTENANCE STANDARDS

ALL LANDSCAPING AND REQUIRED BUFFERING SHALL BE CONTINUALLY MAINTAINED INCLUDING IRRIGATION IF APPLICABLE (NO IRRIGATION SYSTEM WILL BE PROVIDED AT THIS LOCATION), WEEDING, PRUNING, AND REPLACING IN A SUBSTANTIALLY SIMILAR MANNER AS ORIGINALLY APPROVED. THE FOLLOWING SURVIVAL STANDARDS SHALL APPLY TO ALL LANDSCAPING AND REQUIRED BUFFERING:

1. LIVING GROUND COVERS: LIVING GROUND COVERS MUST BE FIFTY PERCENT (50%) ESTABLISHED AFTER THE FIRST GROWING SEASON, AND NINETY PERCENT (90%) ESTABLISHED THEREAFTER.
2. NON-LIVING GROUND COVERS: NON-LIVING GROUND COVERS, SUCH AS ROCK OR MULCH MUST BE ONE HUNDRED PERCENT (100%) INTACT AFTER ONE (1) YEAR AND EIGHTY PERCENT (80%) INTACT THEREAFTER.
3. TREES AND SHRUBS: TREES AND SHRUBS MUST HAVE A ONE HUNDRED PERCENT (100%) SURVIVAL RATE AFTER ONE (1) YEAR AND A NINETY PERCENT (90%) SURVIVAL RATE THEREAFTER.

SEED MIX NOTES

1. SEED SHALL BE FURNISHED IN BAGS OR CONTAINERS CLEARLY LABELED TO SHOW THE NAME AND ADDRESS OF THE SUPPLIER, THE SEED NAME, THE LOT NUMBER, NET WEIGHT, THE PERCENT OF WEED SEED CONTENT AND THE GUARANTEED PERCENTAGE OF PURITY AND GERMINATION.
2. THE CONTRACTOR SHALL SUBMIT TO THE PROJECT REPRESENTATIVE A SIGNED STATEMENT CERTIFYING THAT THE SEED FURNISHED IS FROM A LOT THAT HAS BEEN TESTED WITHIN SIX MONTHS PRIOR TO THE DATE OF DELIVERY. SEED WHICH HAS BECOME WET, MOLDY OR OTHERWISE DAMAGED IN TRANSIT OR IN STORAGE WILL NOT BE ACCEPTABLE.
3. SEED AND SEED LABELS SHALL CONFORM TO ALL CURRENT STATE AND FEDERAL REGULATIONS AND WILL BE SUBJECT TO THE TESTING PROVISIONS OF THE ASSOCIATION OF OFFICIAL SEED ANALYSIS.
4. COMPUTATIONS FOR QUANTITY OF SEED REQUIRED ARE BASED ON THE PERCENT OF PURITY AND PERCENT OF GERMINATION: POUNDS OF SEED X PURITY X GERMINATION = POUNDS OF PURE LIVE SEED (PLS).
5. SITE PREPARATION FOR BAREGROUND SEEDING:
   - 5.1. CONDUCT A SOIL TEST, PER ACRE, TO DETERMINE ANY NEEDED SOIL AMENDMENTS. IDEAL SOIL PH IS BETWEEN 6.0 AND 7.0.
   - 5.2. REMOVE ALL EXISTING VEGETATION, SPRAY SEED AREA WITH NON-SELECTIVE HERBICIDE, REMOVE DEAD VEGETATION AND LARGE DEBRIS.
   - 5.3. ADD SOIL AMENDMENTS AS NECESSARY TO ADJUST SOIL PH LEVELS AND TILL SOIL TO A 4" - 6" DEPTH. PULVERIZE AND LIGHTLY ROLL SOIL.
   - 5.4. APPLY 1 LB OF PHOSPHOROUS(P) (2.27 LBS P2O5)/1000 SQ.FT. TO SOIL SURFACE.
6. SEEDING METHODS, BASED ON THE SLOPE AND SOIL AT SITE. USE BROADCAST, DROP, SLIT OR DRILL SEEDING METHODS WHERE EROSION IS NOT A CONCERN.
   - 6.1. DRILL SEEDING = 25LBS PER ACRE AND BROADCAST SEEDING = 37.5 LBS PER ACRE
   - 6.2. SEED SHOULD BE PLANTED .125 TO .25 INCHES BELOW SOIL SURFACE, IN TWO DIRECTIONS PUTTING ½ OF THE SEED DOWN EACH DIRECTION. SEEDED AREAS SHOULD BE GENTLY ROLLED OR RAKED TO ENSURE GOOD SOIL TO SEED CONTACT.
7. WATERING REQUIREMENTS:
   - 7.1. WATER TO FIELD CAPACITY IMMEDIATELY AFTER SEEDING.
   - 7.2. WEEK 1 - 3 AFTER SEEDING SOIL SHALL BE MOIST TO 1 INCH DEPTH.
   - 7.3. WEEKS 4-6 AFTER SEEDING AREA SHALL BE WATERED 3-4 TIMES PER WEEK.
   - 7.4. AFTER 6 WEEKS GRASS SHALL ONLY NEED WATER WHEN IT BEGINS TO SHOW DROUGHT STRESS.
8. FERTILIZE SEEDED AREA ONCE FOR THE FIRST TWO MONTHS WITH .5 LBS OF N/1000 SQ.FT. AFTER SEEDING.
9. MOW WHEN THE GRASS IS ONE INCH LONGER THAN DESIRED HEIGHT. DO NOT REMOVE MORE THAN ⅓ OF GRASS BLADE.

COMPOST

USE A COMPOST MEETING THE REQUIREMENTS OF THIS SECTION. MATERIAL SHALL BE WELL COMPOSTED, FREE OF WEED SEEDS AND STABILIZED WITH REGARD TO OXYGEN CONSUMPTION AND CARBON DIOXIDE GENERATION. COMPOST SHALL HAVE A MOISTURE CONTENT THAT HAS NO VISIABLE FREE WATER OR DUST PRODUCED WHEN HANDLING THE MATERIAL. ONE HUNDRED PERCENT OF THE MATERIAL MUST PASS THROUGH A HALF INCH SCREEN. MANUFACTURED INERT MATERIAL SHALL BE LESS THAN 1.0% BY WEIGHT.

	MIN.	MAX.
ORGANIC MATTER CONTENT	35%	65%
C/N RATIO	-	25:1
PH	6.0	8.0
BULK DENSITY (LBS/CF)	40	50

WARRANTY:

THE CONTRACTOR SHALL WARRANTY PLANT MATERIALS FOR A PERIOD OF TWO (2) YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION, AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM ABUSE OR DAMAGE BY OTHERS, OR UNUSUAL PHENOMENA OR INCIDENTS WHICH ARE BEYOND THE CONTROL OF THE CONTRACTOR. WARRANTY COVERS A MAXIMUM OF ONE REPLACEMENT PER ITEM.

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FOR REVIEW

NOT RELEASED FOR CONSTRUCTION

LANDSCAPE NOTES AND DETAILS

ACM HIGH POINT MULTI-WELL PAD
NW/4, SW/4, SEC 1 T3S R66W

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

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.

REVISIONS

DESIGNER / DRAFTER
TJS
DATE
12/2/2019
PROJECT NUMBER
0218003.08
BOOK AND PAGE

SHEET
14 OF 14

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