**Preliminary Engineering Improvements for** 

# **MERCEDES-BENZ CAR DEALERSHIP**

SOUTHEAST OF AIRPORT ROAD AND WEBER ROAD VILLAGE OF ROMEOVILLE. ILLINOIS

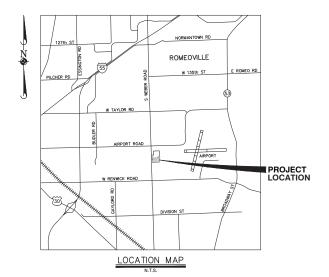
### STANDARD SYMBOLS



### ABBREVIATIONS



MANHARD CONSULTING, LTD. IS NOT RESPONSIBLE FOR THE SAFETY OF ANY PARTY AT OR ON THE CONSTRUCTION STIEL SAFETY IS THE SOUR RESPONSIBLITY OF THE CONTRACTOR AND ANY OTHER PERSON OR ENTITY PERFORMING WORK OR SERMICES, NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE JOB SITE SAFETY OF PERSONS ENGAGED IN THE WORK OR THE MEANS OR METHODS OF CONSTRUCTION.



DEVELOPER: MERCEDES-BENZ OF ORLAND PARK ADDRESS: 8430 W. 159TH STREET CITY: ORLAND PARK, ILLINOIS PHONE: (708)460-0400

ARCHITECT: SIMON DESIGN GROUP ADDRESS: 500 LAKE COOK ROAD, SUITE 350 CITY: DEERFIELD, ILLINOIS 60015 PHONE: (847) 572-3002

### INDEX OF SHEETS

### SHEET NO. SHEET DESCRIPTION

TITLE SHEET

EXISTING CONDITIONS AND DEMOLITION PLAN

SOIL EROSION AND SEDIMENT CONTROL PLAN

SOIL EROSION AND SEDIMENT CONTROL PLAN DETAILS

SITE DIMENSIONAL AND PAVING PLAN

GRADING PLAN

UTILITY PLAN

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

CONSTRUCTION DETAILS

12 VILLLAGE NOTES AND SPECIFICATIONS 13

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FLEVATION=661.68

THE BOUNDARY LINES AND TOPOGRAPHY FOR THIS PROJECT ARE BASED ON A PELD SURVEY COMPLETE BY MAINLAND CONSULTING, LTD. ON FERRIMARY 27, 2020. THE CONTRACTOR SHALL VERBY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL MEMERITARY MAINLAND CONSULTING AND THE CLIENT IN WRITING OF MAY) DIFFERING CONDITIONS.

REFERENCE BENCHMARK (NGS PIS: DP6487)
STANLESS STEEL FOO IN SEEN'S LOCATED ON THE NORTH SIDE OF RENWCK ROAD
(COUNTY ROAD 36). APPROXIMATELY 1 MLE EAST OF WEBER ROAD. MORE
PARTICULARLY LOCATED APPROXIMATELY 32.5 FEET NORTH OF THE NORTH DECE OF
PAVEMENT OF RENWICK ROAD, 28.5 FEET WEST OF A FIRE HYDRANT AND
APPROXIMATELY 7 FEET SOULTH OF A CHAIN-LINK FENCE. DATUM=NAVD88-GFOID 18

SITE BENCHMARK #I: SOUTHWEST BOLT ON HYDRANT LOCATED APPROXIMATELY 490 FEET EAST OF THE CENITERLINE OF WEBER ROAD AND APPROXIMATELY 795 FEET SOUTH OF THE CENITERLINE OF JARPORT ROAD.

ELEVATION=647.70 DATUM=NAVD88-GEOID 18

SITE BENCHMARK #2: SOUTHWEST BOLT ON HYDRANT LOCATED APPROXIMATELY 1005 FEET EAST OF THE CENTERLINE OF WEBER ROAD AND APPROXIMATELY 795 FEET SOUTH OF THE CENTERLINE OF AIRPORT ROAD.

SITE BENCHMARK #3: SOUTHEAST BOLT ON HYDRANT LOCATED APPROXIMATELY 290 FEET EAST OF THE CENTERLINE OF WEBER ROAD AND APPROXIMATELY 1400 FEET SOUTH OF THE CENTERLINE OF AIRPORT ROAD.

SITE BENCHMARK #4:
CUIT SQUIARE N SOUTHWEST CORNER OF CONCRETE HEADWALL LOCATED
APPROXIMATELY 65 FEET EAST OF THE CENTERLINE OF WEBER ROAD AND
APPROXIMATELY 2240 FEET SQUITH OF THE CENTERLINE OF AIRPORT ROAD.

### DRAINAGE CERTIFICATION:

I, JIM FRAYN, HEREBY CERTIFY THAT ADEQUATE STORM WATER STORAGE AND DRAINAGE CAPACITY HAS DEED RROVIDED FOR THIS DEVELOPMENT, SUCH THAT SURFACE WATER FROM THE DEVELOPMENT MILL DE DIVERTED ONTO AND CAUSE DAMAGE TO ADJACENT PROPERTY FOR STORMS UP TO AND INCLUDING THE ONE HUNDRED (100) YEAR EVENT, AND THAT THE DESIGN FLANS ARE IN COMPLIANCE WITH ALL APPLICABLE STATE, COUNTY, AND ULLEGE ORDINANCES.

JAMES FRAYN, P.E.



	UTILITY CONTACTS	
ELECTRIC COMED 2 LINCOLN CENTER OAK BROOK TERRACE, IL. 6018 (800) 334-7661 CONTACT:	615 ANDERSON DRIVE	SEWER VILLAGE OF ROMEOVILLE PUBLIC WORKS 615 ANDERSON DRIVE ROMEOVILLE, IL. 60446 (815) 886-1870 CONTACT: ERIC BJORK
GAS NICOR 1844 FERRY ROAD NAPERVILLE, IL. 60563 (888) 642–6748 CONTACT:	IELEPHONE AT&T 297 S. WEBER ROAD ROMEOVILLE, III. 60446 (815) 836-6730 CONTACT:	VILLAGE CONTACT VILLAGE OF ROMEOVILLE 615 ANDERSON DRIVE ROMEOVILLE, IL. 60446 (815) 886-1870 CONTACT: MR. JONATHON A. ZABROCKI, P.E.

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MERCEDES-BENZ CAR DEALERSHIP VILLAGE OF ROMEOVILLE, ILLINOIS TITLE SHEET

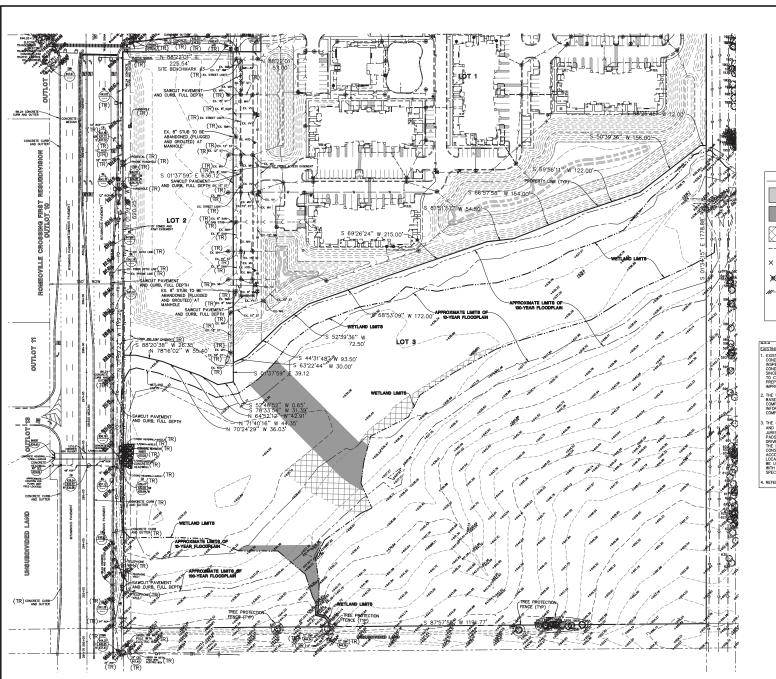
ROJ. MSR: JSP

ROJ. ASSOC: JCM

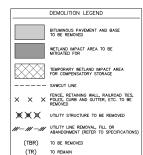
RAWN BY: JCM

MTE: 05-07-21 N.T.S.

∘ 14 FRD.RVIL01







### EXISTING CONDITIONS AND DEMOLITION NOTES:

L DISTING CONTINUES AND DEMOLITOR THAN REPRESENT SITE CONDITIONS AS OF FERRILARY 27, 2020. CONTRACTOR SHALL MSPECT SITE FRORT OT BOOKING WORK TO VERFY ACTUAL FLIE SINCE BETT OF THE STATE ALL DEMOLITOR WORK AS PER PLANS TO PREPARE THE SITE FOR CONSTRUCTION OF PROPOSED MPROVEMENT ALL DEMOLITOR WORK AS PER PLANS TO PREPARE THE SITE FOR CONSTRUCTION OF PROPOSED MPROVEMENT.

 THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY, WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND

3. THE CONTRACTOR IS RESPONSIBLE FOR DEMOUTION, REMOVAL AND DISPOSAL (IN A LOCATION APPROVED BY ALL AUGMENTATION APPROVED BY ALL AUGMENTATION ARE AUGMENTED AT A LOCATION AND DISPOSAL AUGMENTATION AND AUGMENTATION AU

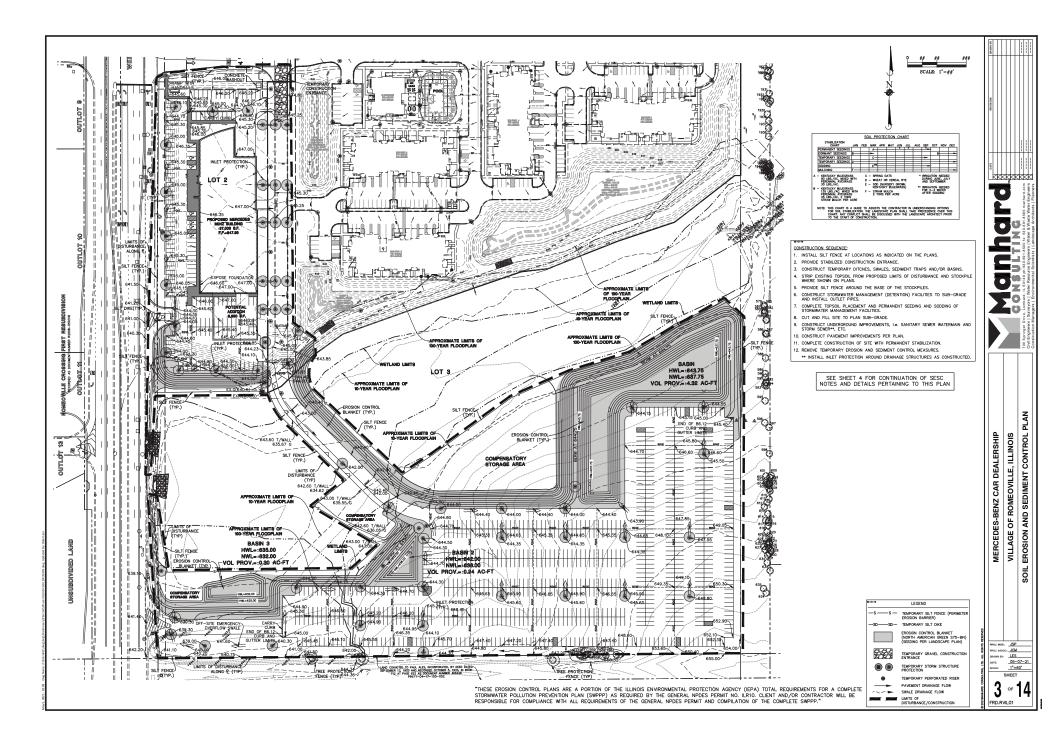
4. REFER TO SPECIFICATIONS SHEET FOR DEMOLITION NOTES.

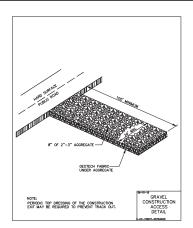
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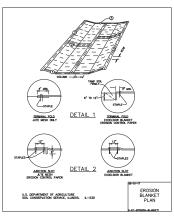
VILLAGE OF ROMEOVILLE, ILLINOIS
EXISTING CONDITIONS AND DEMOLITION PLAN

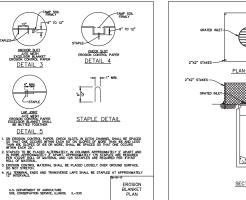
MERCEDES-BENZ CAR DEALERSHIP

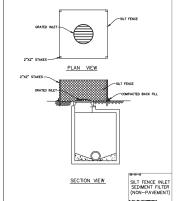
SR: JSP SSC: JCM UFS 05-07-21 1"=60"

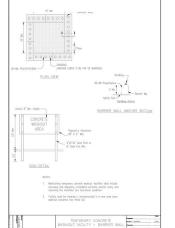


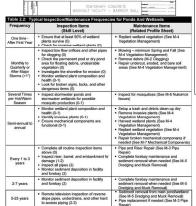


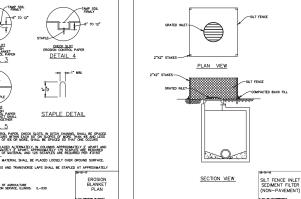


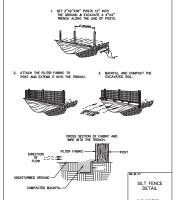


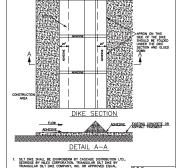












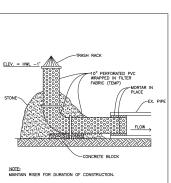
INFORMATION SET DIKE COMPANY, INC. OR APPROVED EQUAL
SET TIME UNIT NATIONALED SHALL HAVE CONTINUOUS AND FRIM
CONTINUOUS MAD FRIM
3. ADMESTICS. CONCEPT PAYMENT USE LIQUID NAL. OR APPROVED
EQUAL. ASPHALT PAYMENT USE DALISHED ASPHALT.
4. ADMESTIC SHALL BE PLACED WHERE THE UNITS OVERLAP AND A
20° STRIP ALONG BOTH EDDES.

SILT DIKE (ON EXISTING PAVEMENT)



GRATED INLET-

FILTER FARRIC-



### LANDSCAPING GENERAL NOTES: Fertilizer and Limestone Application;

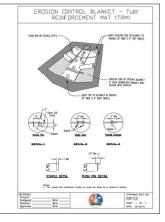
- For trees and shrubc use: 14-46 briguettes 17 g or equivalent available from Arthur Clesen, Inc. Follow manufacturer's recommendation for application. Arthur Clesen, Inc. 543 Diens Drive, Wheeling, IL 60000 (847)537-2177
- For turf areas use 6-24-16 Clesen Fairway with micronutrients with minor elements 3.0 % S, .02% B, .05% Cu, 1.0% Fe, .0006% Mo, .10% Mn available from Arthur Clesen or approved equal.
- Apply fertilizers and conditioners at the rate specified per soil test findings. In lieu of soil test results, apply two (2) lons of ground agricultural limestone and 1000 lbs. 10-10-10 or equivalent analysis fertilizer per ance. At least 40% of the fertilizer per lindgen shall be of an organic origin.
- restruction per actor. An easily work to the release in integral issues to an an original congrat.

  Watering seedle areas shall be done to ensure proper germination. Once seeds have germinature watering may be decreased but the seedlings must never be allowed to dry out completely. Fire watering should be continued approximately four (4) weeks after germination or until grass has become sufficiently established to warrant watering on an 'as needed' basis.
- Turf is being established on a variety of slope conditions. It shall be the Contractor's responsibility to determine and implement whatever procedures he loth deems necessary to establish the furf as part of infahre work. Geoded areas will be excepted when all ness whose a variety material of the specified Contractor shall submit with his/her bid a description of the methods and procedures he lother intends use.

- Erosion Control Blanket shall be installed per manufacturer's recommendation in all areas sho the plan.
- Install S.75 Erosion Control Blanket as manufactured by North American Green or

TEMPORARY PERFORATED RISER #1

- Mushroom Compost as available from Midwest Trading.
- Install 4" depth of mulch around all tree and shrub beds as indicated on drawings or planting details Mulch shrub planting areas as continuous beds. Do not place mulch directly against tree trunk; for mulch to create an inverted cone around trunk.
- Mulch perennial, groundcover and annual planting beds with 2" mushroom compost. Water areas thoroughly after placing mulch.



	S-EO-SF-INLETPROTECT
13" Min protess was	
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O Two	
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SAMBAG	
THYLENE (ANCHOR EVERY 2'ON TOP OF BARRER)	6970020
PLAN VIEW	Sandbag —7
30-W1 Pc	
	5 Min Barier Mg
N.	stive Soil - Sandbog Anchor
Mr. Height	RIER WALL ANCHOR SECTION
- WI	NER WALL ROUTUR SELVION
CONCRETE WASHOUT *	
AREA Discost v. Alumbum	
49, X 5, NV	
4" 44" 46" food Post or 6" Steel Post Win.	
SIGN DETAIL	
NOTES	
1. Maintaining temporary concrete washout facilities s	hall include
removing and disposing of hardend concrete and/o returning the facilities to a functional condition.	r slurry and
<ol> <li>Facility shall be cleaned it reconstructed in a new washout becomes two-thirds full.</li> </ol>	ores once
TEMPORARY CONCR	ETE COMP. LONG.
WASHOUT FACILITY - BAR	RIER WALL

dry pond irable rosion (0) ition and and other	Moving – minimum Spring and Fall (See M-4 Vegetation Management) Remove debris (M-2 Clogging) Repair undercut, eroded, and bare soil areas (See M-4 Vegetation Management)  A Vegetation Management)	IEPA WHEN ALL 70% ESTABLISH 27. SEE "SEASONS (SWPPP)" BY M 28. BIODEGRADABLE	ERMINATION (NOT) MUST BE COMPLETED AND SUP- PERMANENT EROSION CONTROL MEASURES ARE MENT OF VECETATION. AT FOMEOVILLE STORMWATER POLLUTION PREVEN- ANHARD CONSULTING FOR MAINTENANCE PLAN. LEROSION CONTROL MEASURES SHALL BE USED ONTRACTOR SHALL USE CURLEX (NAG \$75) OR I.
i ible	Inspect for mosquitoes (See M-8 Nuisance	EQUAL.	
ibie	Issues)	Table 2.1: Inspection	Skill Level Descriptions
		Skill Level	Description
ition and	Setup a trash and debris clean-up day     Remove invasive plants (See M-4     Vegetation Management)	0	No special skills or prior experience required, but some ba manual, video, or other materials is necessary.
nts are	Harvest wetland plants (See M-4     Vegetation Management)	1	Inspector, maintenance crew member or citizen with prior ponds and wetlands
	Replant wetland vegetation (See M-4 Vegetation Management)	2	Inspector or contractor with extensive experience with por maintenance issues
	Repair broken mechanical components if needed (See M-7 Mechanical Components)	3	Professional engineering consultant
n items	Pipe and Riser Repair (See M-3 Pipe Repair)		
ankment for	Complete forebay maintenance and sediment removal when needed (See M-5 Dredging and Muck Removal)		
n facility	Dreuging and muck removal)		
n facility	Complete forebay maintenance and sediment removal when needed (See M-5 Dredging and Muck Removal)		

SOIL FROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINGS URBAN MANUAL".

MAINTENANCE AND REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE OWNER, SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

BY THE OWNER, STALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

THE CONTRACTOR SHALL INSPECT CALL ERGISHO CONTROL MEASURES AT LEAST ONCE DEVEL SHALL PROSPECT OF THE BIO OF TH

FILLING ACTIVITIES ON THE SITE. STORM WATERS FALLING ON THE ENTIRE SITE SHALL BE DIVERTED INTO THE DETENTION BASINS, PRIOR TO BEGINNING MASS EXCAVATION, THE CONTRACTOR SHALL CONSTRUCT DITCHES, SWALLS, SEDMENTATION TRAPS AND SILTATION CONTROL MEASURES AS REQUIRED TO INTERCEPT SURFACE WATERS BEFORE THEY FLOW ONTO ADJUNCTURE THE OFFICE WATERS BEFORE THEY FLOW ONTO ADJUNCENT PROPERTY AND CONCEY THEM TO THE DETENTION BASINS.

FLOW ONLY ADJACENT PROPERTY AND COUNTY TEMS 10 THE CENTRION BASINS. STREALIZATION OF DISTURBED AREAS MUST BE INITIATED INMEDIATELY WHENEVER ANY CLERRING, GRADING, ELOXALTING OR OTHER ZAM'S DISTURBED, ACTIVITIES ANY CLERRING, DATA OF THE CONTROL OF THE SET AND WILL NOT RESUME FOR A PERSON DECEMBED AND THE CASED ON ANY PORTION OF THE SET AND WILL NOT RESUME FOR A PERSON DECEMBED A CALADINAR DAYS, STABILIZATION OF DISTURBED AREAS MUST BE FOR A PERSON OF THE ANY DISTURBED AREAS MUST BE FOR A PERSON OF THE SET AND DESIGNED ACTIVITIES AND SAME BE COMPRETED AS SOON AS POSSIBLE BUT NOT LATER THAN 7 DAYS FROM THE INTITUTION OF STABILIZATION WORK IN AN AREA.

TEMPORARY SEED MIXTURE SHALL BE APPLIED AT 64 LBS/ACRE.

INLET PROTECTION SHALL BE INSTALLED UNDER THE GRATING OF EACH DRAINAGE STRUCTURE.

STRUCTURE.

STRUCTURE

STABILIZATION OF TOPSOIL STOCKPILES SHALL BE INITIATED IMMEDIATLEY UPON COMPLETION UNLESS THEY WILL BE DISTURBED WHICH FOURTEEN (14) CALEDDAR MORE STABLED SHALL BE INITIATED WHITE IN HORMOOD DAY.

STABLED SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NOT LATER THAN 14 DAYS OF THE MORE THAN 15 DAYS OF

DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED. DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION.

. WATER PUMPED DURING CONSTRUCTION OPERATION SHALL BE FILTERED.

2. DUST CONTROL SHALL BE PERFORMED ON A DAILY BASIS USING WATER DISPERSED FROM A TRUCK MOUNTED TANK WITH STANDARD DISCHARGE HEADER TO PROPUGE A UNIFORM RATE OF APPLICATION. CONTRACTOR TO COORDINATE DUST CONTROL REQUIREMENTS WITH VILLAGE PRIOR TO MOBILIZATION.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED, ADJUSTED OR RELOCATED AS NECESSARY TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC ROOMBYS. ANY SEDIMENT REACHING A PUBLIC ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING BEFORE THE END OF EACH WORKING DAY.

. ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINE OF ANY GUTTER OR DRAINAGE STRUCTURE DURING CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.

OVERLAND FLOW SHALL BE DIRECTED TO THE DETENTION BASINS PRIOR TO LEAVING THE SITE.

16. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE CLIENT OR OTHER JURISDICTIONAL GOVERNMENTAL ENTITIES.

7. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL JURISDICTIONAL GOVERNMENTAL AGENCY REQUIREMENTS WITHIN 30 DAYS OF FINAL STABILIZATION.

A. ALL ACCESS TO AND FROM THE CONSTRUCTION SITE IS TO BE RESTRICTED TO THE CONSTRUCTION ENTRANCE. ANY DAMAGE DONE TO EXISTING UTILITIES, ACCESS ROADS, CURBS, OR OTHER STRUCTURES MUST BE REPAIRED BY THE DEVELOPER.

. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE EFFECTIVE PERFORMANCE OF THEIR INTENDED FUNCTION.

O. MAJOR AMENDMENTS OF THE SITE DEVELOPMENT OR EROSION AND SEDIMENTATION CONTROL PLANS SHALL BE SUBMITTED TO THE DEPARTMENT OF COMMUNITY DEVELOPMENT TO BE APPROVED IN THE SAME MANNER AS THE ORIGINAL PLANS.

. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING (NOT FLUSHING) BEFORE THE END OF EACH WORKDAY AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL.

WORDDAY AND IMAGEORED TO CONTROLLED SEMENT INSPOSAL.

THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO CONTROL WASTE SUGAS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE MIRACTS TO WATER QUALITY.

ALL STORM SEWER FRAMES AND GRATES/LIDS SHALL BE MARKED WITH "DUMP NO WASTE" AND "DRAINS TO CREEK".

NO WASTE: AND DIAMAS TO CREEK.

A NOTICE OF RITHON! (NO) MUST BE SUBMITTED TO THE NPDES PERMITTING AUTHORITY AND POSTMAKED AT LEAST 30 DAYS BEFORE COMMENCEMENT OF THE NO SHALL BE THE STOOMARTER POLLUTION REVENDING PLAN (SWEPP), WHICH INCLUDES THE APPROPRIATE BMPS TO MINIMIZE THE DISCHARGE OF POLLUTIANTS FROM THE CONSTRUCTION STEE.

 AN INCIDENT OF NON-COMPLIANCE (ION) MUST BE COMPLETED AND SUBMITTED TO THE IEPA IF. AT ANY TIME. AN EROSION OR SEDIMENT CONTROL DEVICE FAILS SUBMITTED TO THE

ENTION PLAN

IN LIEU OF PHOTO APPROVED

Skill Level	Description
0	No special skills or prior experience required, but some basic training via manual, video, or other materials is necessary.
1	Inspector, maintenance crew member or citizen with prior experience witl ponds and wetlands
2	Inspector or contractor with extensive experience with pond and wetland maintenance issues
3	Professional engineering consultant

ROU. MIGR: JSP
ROU. AGEOC: JCM
RAWN BY: LES
LTE: 05-04-21 N.T.S.

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DETAILS

PLAN

CONTROL

SEDIMENT

**EROSION AND** VILLAGE

SOIL

DEALERSHIP

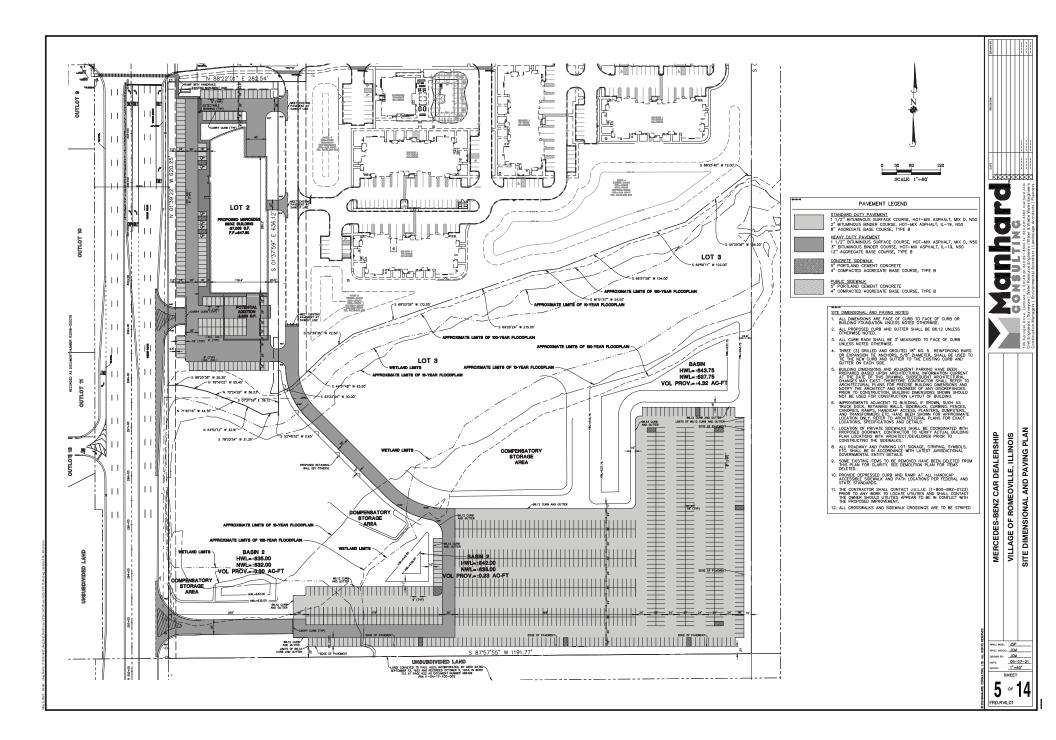
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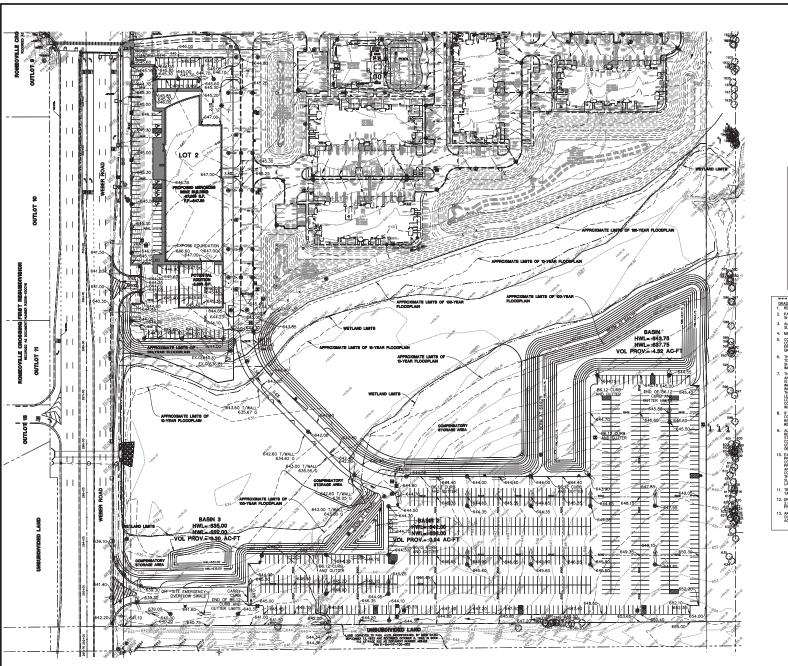
MERCEDES-BENZ

OF ROMEOVILLE, ILLINOIS

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PROPOSED 1 FOOT CONTOURS PROPOSED SPOT ELEVATION
PROPOSED FINISHED FLOOR ELEVATION
PROPOSED GRADE AT FOUNDATION PROPOSED PAVEMENT ELEVATION PROPOSED TOP OF CURB
PROPOSED TOP OF WALK
PROPOSED TOP OF WALK
PROPOSED TOP OF WALL
MEET EXISTING
PROPOSED GROUND GRADE OR G
AT BASE OF RETAINING WALL PROPOSED DITCH OR SWALE PROPOSED DIRECTION OF FLOW OVERFLOW RELIEF SWALE PROPOSED RIDGE LINE **@** PROPOSED DEPTH OF PONDING RETAINING WALL PROPOSED SWALE LOW POINT PROPOSED SWALE SUMMIT

- GRADING NOTES:

  1. RETAINING WALL DESIGN TO BE PROVIDED BY OTHERS.

  2. PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MASIMUM IN ANY DIRECTION.
- ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
- MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED OTHERWISE.
- SHOULD UTILITIES APPEAR TO BE IN CONSULT WITH THE PROPOSED.

  THE COMPANION IS SPECIMENT VOLUMED THAT THE CONTROL OF A SPECIMENT VOLUMED THAT THE CONTROL OF SPECIMEN UTILITIES AS SHOWN ON THESE PLANS FOR THE PROPOSED OF THE

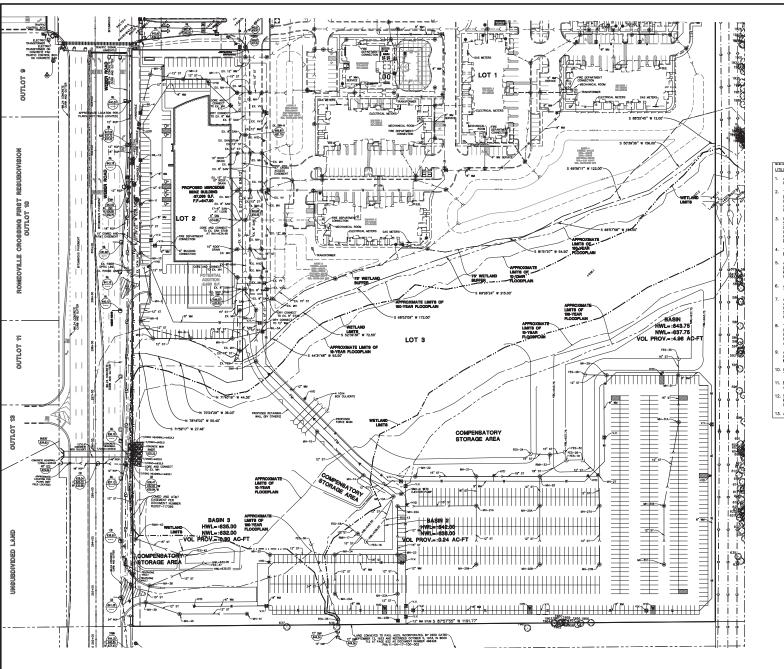
- OBTANED. ESSIMIL TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS AS PREPARED BY MANHAND CONSULTING LTD. OIL FERRILARY, 27, 2020 CONSULTING LTD. OF THE PROPERTY ACCOUNTS AND ENGINEER OF ANY ESCREPANCES PROPERTY ACCOUNTS ACTION OF THE PROPERTY AS SHOWN ON SUPPLY, AT THEIR SPECIALS, A [DPGGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OTHER DEPOSES. A [DPGGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OTHER DEPOSES.
- TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H:1V UNLESS OTHERWISE NOTED.
- DRAINAGE SWALES SHALL HAVE A MINIMUM LONGITUDINAL SLOPE OF 2.00% SEE SHEET 56 FOR TYPICAL SWALE DETAIL ALONG EAST DROUGEN.
- AN ADDITIONAL 1" SHOULD BE ADDED TO ALL PONDING DEPTHS FOR OVERFLOWS AT MANHOLES IN THE CURB LINE TO ACCOUNT FOR DROP ACROSS GITTER

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> MERCEDES-BENZ CAR DEALERSHIP VILLAGE OF ROMEOVILLE, ILLINOIS GRADING PLAN

> > JSP JCM JCM 05-07-21 1"=60"

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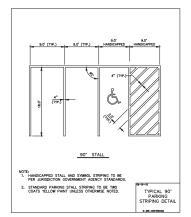
### UTILITY NOTES:

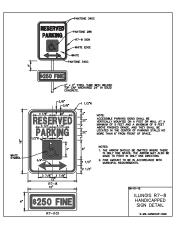
- ALL UTILITY DIMENSIONS ARE TO CENTER OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL CONTROL WORK TO LOCATE (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED MPROVEMENT.
- SEWER, WATER MAIN AND DRY UTILITY LOCATIONS, SIZES, CONDITIONS & ELEVATIONS AT PROPOSED POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY UNDERGROUT CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANGES OR CONFLICTS.
- THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF A EXISTING STRUCTURES TO PROPOSED FINISH GRADES.
- AT LOCATIONS WHERE WATER MAIN CROSSES BENEATH OR LESS THAN 18" ABOVE A SEWER, PROVIDE WATER MAIN PROTECTION PER STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOS, LATEST EDITION.
- . ALL WATER MAIN SHALL BE 5'-6" BELOW FINISHED GRADE TO TOP OF MAINS UNLESS NOTED OTHERWISE.
- ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT ELEVATION OR LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
- THE UNDERGROUND UTILITY INFORMATION AS SHOWN HERE ON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE QUARANTEED NOR CERTIFIED.
- ALL SANITARY AND STORM SEWER LENGTHS SHOWN ARE CENTER OF MANHOLE TO CENTER OF MANHOLE OR STORM MANHOLE TO FES.
- CONTRACTOR SHALL CORE AND BOOT ALL PIPE ENTRANCES TO EXISTING SANITARY MANHOLES.
- EXTERNAL CHIMNEY SEALS ARE REQUIRED ON PROPOSED AND ADJUSTED EXISTING SANITARY MANHOLES.
- 12. SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETE FROM THIS PLAN FOR CLARITY, SEE DEMOLITION PLAN FOR ITEMS DELETED
- 13. ALL D.I. WATERMAIN FITTINGS SHALL BE WRAPPED

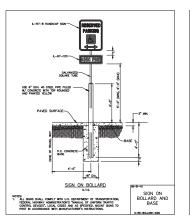
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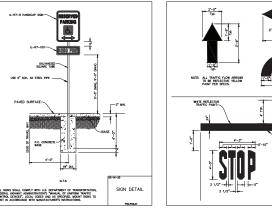
MERCEDES-BENZ CAR DEALERSHIP
VILLAGE OF ROMEOVILLE, ILLINOIS
UTILITY PLAN

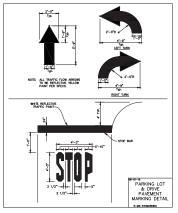
MSR: JSP
ASSOC: JCM
N BY: LES
05-07-21
1"=60"

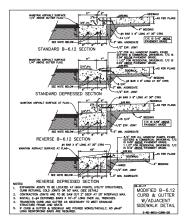


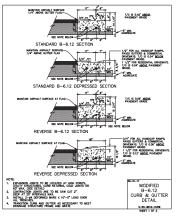


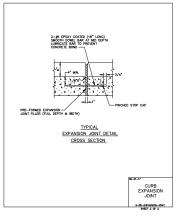


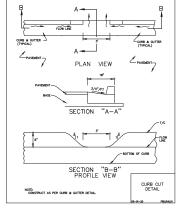




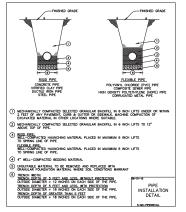


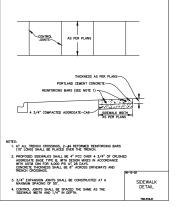


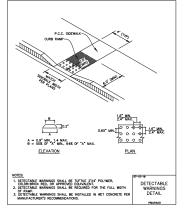












SHOULD A CONFLICT ARISE BETWEEN MANHARD DETAILS AND THE VILLAGE DETAILS/SPECIFICATIONS, THE VILLAGE DETAILS/SPECIFICATIONS SHALL TAKE PRECEDENCE.

MERCEDES-BENZ CAR DEALERSHIP VILLAGE OF ROMEOVILLE, ILLINOIS CONSTRUCTION DETAILS

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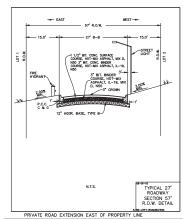
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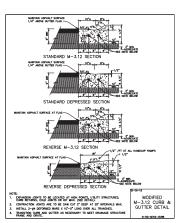
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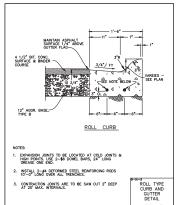
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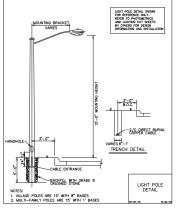
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ATE: 05-07-21 N.T.S. 8

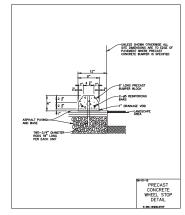
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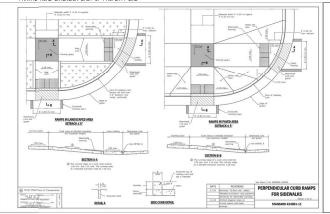


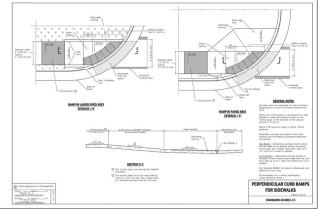








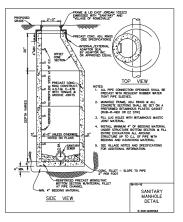


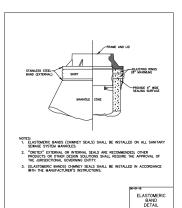


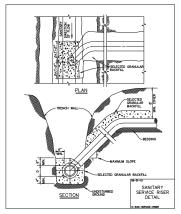
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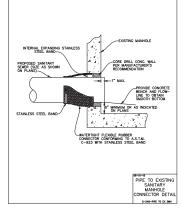


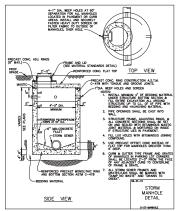
MERCEDES-BENZ CAR DEALERSHIP
VILLAGE OF ROMEOVILLE, ILLINOIS
CONSTRUCTION DETAILS

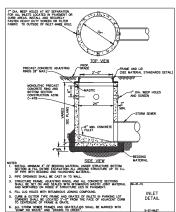


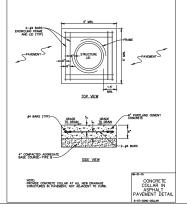


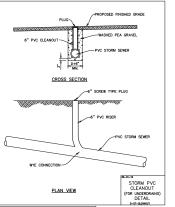


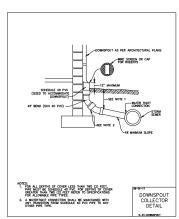


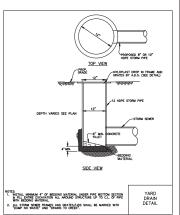


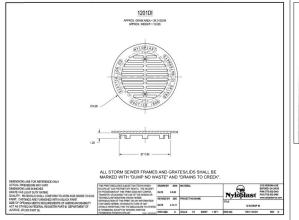


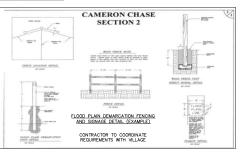










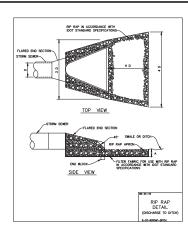


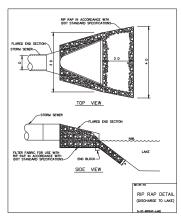
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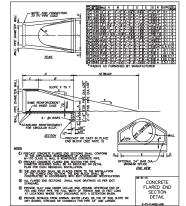
MERCEDES-BENZ CAR DEALERSHIP
VILLAGE OF ROMEOVILLE, ILLINOIS
CONSTRUCTION DETAILS

PROJ. MSR: USP
PROJ. ASSOC: UCM
CRAINN BY: LES
DATE: 05-07-21
SCALE: N.T.S.
SHEET

			R	IP-R	AP.				
PIPE			BEDDING						
(IN.) D	QUALITY DESIGNATION	GRADATION NUMBER RR	MNMUM THICKNESS (N.)	MINMUM LENGTH (FT.) 40	WEIGHT RANGE (#)	WEIGHT AVERAGE (#)	SIZE AVERAGE (IN.)	MINIMUM THICKNESS (IN.)	
12"	В	3	8"	4"	1-50	10	4.5"	N/A	
15"	В	B 3 8" 5 1-50 10 4.5"						N/A	
18"	В	4	16"	6'	1-150	40	7"	6"	
21"	В	4	16"	7	7"	6"			
24"	В	4	16"	8'	7"	6"			
27"	В	4	16"	9'	1-150	40	7"	6"	
30"	В	4	16"	10"	1-150	40	7"	6"	
36"	В	5	22"	12'	3-400	90	10"	8"	
42"	В	B 5 22" 14' 3-400 90 10"				10"	8"		
48"	B 6 26" 16 6-600 170 12"							10"	
54"	В	6	26"	18'	6-600	170	12"	10"	
60"	В	6	26"	20'	6-600	170	12"	10**	
72"	В	6	26"	24'	6-600	170	12"	10"	
2. R	CR PIPE LA F RIP-RAP EFER TO I.C TANDARDS	OR APRO	IS REQU	UIRED.	L DESK	SN .		STONE RIP RAP DETAIL	







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> MERCEDES-BENZ CAR DEALERSHIP VILLAGE OF ROMEOVILLE, ILLINOIS CONSTRUCTION DETAILS

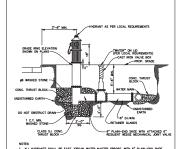
PROJ. MSR.: JSP
PROJ. ASSOC: JCM
CRAWN EV: LES
DATE: 05-07-21
SCALE: N.T.S.
SHEET

11 ∘ 14 FRD.RVIL01

SHOULD A CONFLICT ARISE BETWEEN MANHARD DETAILS AND THE VILLAGE DETAILS/SPECIFICATIONS, THE VILLAGE

DETAILS/SPECIFICATIONS SHALL TAKE

PRECEDENCE.



NOTES: INFORMET SUAL, SE CAST COOM NEED MASTER MEASURE STATE, SE VAN DE SUCC. STATE SE MIN ATTACHE OF RESIDENT MORE MEMORILE, SEN VAN DE SUBJECT MAN DE SUIT MAN DE SUBJECT PROPERTION. ALSO SENT TO \$1-1/2" INCC CONSECTION.

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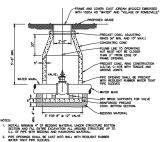
SECTION OF THE SUBJECT AND LOCATED

CONTENIAGE OF THE SUBJECT AND LOCATED

SECTION OF THE SUBJECT AND LO

FIRE HYDRANT DETAIL

XXXXXX 3 PC VALVE BOX PER LOCAL REQUIREMENTS -RESILIENT SEALED GATE VALVE-" MIN. BEDDING MATERIAL VALVE BOX DETAIL



- STRUCTURE FRAME, ADJUSTING RINGS AND ALL CONCRETE SECTIONS SHALL BE SET ON AND SEALED WITH BITUMINOUS MASTIC JOINT MATERIAL.
- I. FILL LUC HOLES WITH BITUMHOUS JONING COMPOUND.

  ALL JONINS NEED TO BE EXTERNALLY WRAPPED WITH MACWRAP OR EQUAL.
- RUBBER GASKETED BOOTS ARE REQUIRED FOR ALL PENETRATIONS THROUGH THE MANHOLE WALL.

THROUGH THE MANICE WALL

HIERMA,/KITCHAN, CHAMPLY STAILS ARE RECLIRED

MINIMAN OF TWO ADJUSTING RINGS (MIN 6" ADJUSTING HEIGHT), AND

MINIMAN OF THE PRINGS (MAX 10" OF ADJUSTING HEIGHT), NO. 1" OR 2"

CONCRETE HINGS ARE ALLOHED, UNCORE PARED MARKES, TOP HING SHOULD

ADJUSTMENT SERRES (1" 10" 3" MAX HEIGHT OF STAICED HEIGHS).

VALVE VAULT DETAIL

NEXEL MINIOU 4" OF BECONG MATERIAL UNDER STRUCTURE BOTTCM SECTION & FILL INTRE EXCAVATION ALL AROUND STRUCTURE UP TO CL. OF PPE WITH BECONG AND HANCHING MATERIAL UNDER . PIPE OFENNOS SHALL BE CAST INTO WALL WITH RESILENT RUBBER WAITE THAT PPE SLEVES. STRUCTURE FRAME, ADJUSTING RINGS, & ALL CONCRETE SECTIONS SHALL BE SET ON AND SEALED WITH BITUMINOUS MASTIC JOINT MATERIAL. FILL LUG HOLES WITH BITUMINOUS JOINING COMPOUND. SEE STANDARD VALVE VAULT DETAIL FOR ADDITIONAL NOTES

MASONRY THRUST BLOCK-FOR FULL WIDTH OF SLEEVE

—PLUMB LINE TO OPERATING NUT MUST NOT BE CLOSER THAN 3" FROM EDGE OF FRAME OPENING

PRECAST CONC. RING CONSTRUCTION A.S.T.M. C-478 WITH TONGUE AND GROOVE JOINTS

DRY BRICK SUPPORTS

-EXISTING OR PROPOSED GRADE GRANTY SEWER TO BE WATER MAIN QUALITY PRESSURE PIPE FOR A MINIMUM DISTANCE OF 10' ON EITHER SIDE OF THE QUITSIDE WALL OF THE WATER MAIN.— RESTRAIN WITH \*COR-TEN\* BOLTS PROPOSED DIP

- HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER SHALL COMPLY WITH IEPA REQUIREMENTS.

WATER MAIN LOWERING DETAIL

STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.

41-2.01 PROTECTION OF WATER MAIN AND WATER SERVICE LINES

41-2.01B HORIZONTAL SEPARATION - WATER MAINS AND SEWERS

- Water mains shall be located at least ten (10) feet (3.1 m) horizontally from any existing or proposed drain, storm sewer, sanitary sewer, combines sewer or sewer service connection.
- (2.) Water mains may be located closer than ten (10) feet (3.1 m) to a sewer line when:
- (a) local conditions prevent a lateral separation of ten (10) feet (3.1 m);
- (c) the water main is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.
- (3.) When it is impossible to meet (1) or (2) above, both the water main and drain or sewer shall be constructed of slip—on or mechanical joint cost or ductile incom plee, prestressed concrete pie, or PVC pie equivalent to water main standards of construction. The drain or sewer shall be pressure standards of pressure shall be pressure standards of pressure shall be pressure standards of construction. The drain severe shall be pressure standard Gravino No. II. 8.

WATER AND SEWER SEPARATION REQUIREMENTS (HORIZONTAL SEPARATION)

STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.

- A water main shall be separated from a sewer so that its invert is a minimum of sighteen (18) inches (460mm) down the crown of the drain or sewer without several term several
- (2.) Both the water main and sewer shall be constructed of slip-on or mechanical joint cast or ductle iron pipe, prestressed concrete pipe, or PVC pipe equivalent to water main standards of construction when:
- (a) It is impossible to obtain the proper vertical separation as described in (1) above; or
- (3.) A vertical separation of sighteen (18) inshes (460 mm) between the invertion of the sever or droit and the cross of the vater main shall be monitored where a verter main research under a sever. Support the sever or drain lines to prevent settling and breaking the main, as shown on the Plans or as approved by the EMREKET.
- (4.) Construction of water main quality pipe shall extend on each side of the crossing until the perpendicular distance from the water main to the sewer or drain line is at least ten (10) feet (3.1 m) See Standard Drawings No. 19–23.

-81-99
WATER AND SEWEF
SEPARATION
REQUIREMENTS
VERTICAL SEPARATION

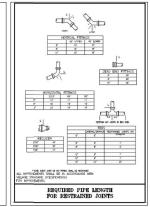
int devices for mechanical joint fittings and appurtenances conforming to either NWWA CHII/AZI-II or ANSI/AWWA CHSI/AZI-SS, shall conform to the

TAPPING-VALVE

TAPPING

									· · · · · · · · · · · · · · · · · · ·						
- [	lite Name	Fitting Type	Pipe Material	Soil Type	Safety Factor	Trench Type	Depth of Bury	Test Pressure	Nominal Size	Bend Angle	Branch Size	Length Along Run	Lowside Depth	Restraint Length	Restraint Length 2
	12" to 12" Tee	Tee	Poly Wrapped Ductile	CL	1.5	5	5.5	150	12		12	13		1 ft.	
Γ	12" to 8" Tee	Tee	Poly Wrapped Ductile	CL	1.5	5	5.5	150	12		8	20		1 ft.	
	8" to 8" Tee	Tee	Poly Wrapped Ductile	CL	1.5	5	5.5	150	8		8	20		1 ft.	
	8"-45 Bend	Horizontal Bend	Poly Wrapped Ductile	CL	1.5	5	5.5	150	8	45				7 ft.	
	8"-22.5 Bend	Horizontal Bend	Poly Wrapped Ductile	CL	1.5	5	5.5	150	8	22.5				4 ft.	
Γ	8"-11.25 Bend	Horizontal Bend	Poly Wrapped Ductile	CL	1.5	5	5.5	150	8	11.25				2 ft.	
	8"-45 Lowering	Vertical Offset	Poly Wrapped Ductile	CL	1.5	5	5.5	150	8	45			10	28 ft.	5 ft.

# DUCTILE IRON JOINT RESTRAINT TABLE Pipe Size Tee 90 Elbow d Elbow 22.5 Elbow 11.25 Elbow Dead (inches) Branch End 1 (2) 15 (26) 2 (37) 21 (37) 2 TEST PRESSURES BASED ON 150 PSI



				WIERCE	DES BEINZ CAN	DEALERSHIP RI	STRAINED JUII	VI LENGTH CA	LCOLATIONS					
	Fitting Type	Pipe Material	Soil Type	Safety Factor	Trench Type	Depth of Bury	Test Pressure	Nominal Size	Bend Angle	Branch Size	Length Along Run	Lowside Depth	Restraint Length	Restraint Length 2
12" Tee	Tee	Poly Wrapped Ductile	CL	1.5	5	5.5	150	12		12	13		1 ft.	
8" Tee	Tee	Poly Wrapped Ductile	CL	1.5	5	5.5	150	12		8	20		1 ft.	
8" Tee	Tee	Poly Wrapped Ductile	CL	1.5	5	5.5	150	8		8	20		1 ft.	
5 Bend	Horizontal Bend	Poly Wrapped Ductile	CL	1.5	5	5.5	150	8	45				7 ft.	
.5 Bend	Horizontal Bend	Poly Wrapped Ductile	CL	1.5	5	5.5	150	8	22.5				4 ft.	
25 Bend	Horizontal Bend	Poly Wrapped Ductile	CL	1.5	5	5.5	150	8	11.25				2 ft.	
owering	Vertical Offset	Poly Wrapped Ductile	CL	1.5	5	5.5	150	8	45			10	28 ft.	5 ft.

SHOULD A CONFLICT ARISE BETWEEN MANHARD DETAILS AND THE VILLAGE DETAILS/SPECIFICATIONS, THE VILLAGE DETAILS/SPECIFICATIONS SHALL TAKE PRECEDENCE.

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DEALERSHIP VILLAGE OF ROMEOVILLE, ILLINOIS DETAILS MERCEDES-BENZ CAR CONSTRUCTION

ROJ. MSR: JSP

ROJ. ASSOC: JCM

RAWN BY: LES

MTE: 05-07-21 N.T.S.

FRD.RVIL01

<u>su</u>
I.UNDERGROUND IM
A. GENERAL
STRUCTURE ADJUSTMENTS
Minimum of two adjusting rings (Min. allowed. Under paved areas, top ring
MISCELLANEOUS
The Developer/Contractor is required to Department within 48 hours of any ons
B. SANITARY SEWE
SANITARY SEWER PIPE Pipes must have a minimum cover dep SDR 18 when over 20 feet deep.
SDR 18 when over 20 feet deep. MANHOLES
Manhatan aball conferm with the follow
<ol> <li>All Sanitary manhole castings, section joint shall also be exter</li> </ol>
polyethylene with an under laye Bands for Concrete Pipe. Mani
(1) All Sainlary manhole castlings, section joint shall also be edde polyathylane with an under lay Bands for Concrete Pipe, Mari shall be provided with a flexible Reinforced Concrete Manhole
(2) All manholes located in areas
<ol> <li>Sanitary menhole frame and o wrapped with MacWrap or equ</li> </ol>
wrapped with MacNivipr or ex- (4) Iraman Chimniy Speals shall I following: for surface prepara- frost or wet conditions can be concrete dust, dirt, form relae with Stael-Saume FF910. Afth the entire chimney seal area. Application shall be ms between 100 to 125 mils. The
frost or wet conditions can be concrete dust, dirt, form relea
with Steel-Seam FT910. After the entire chimney seal area
area. Application shall be ma between 100 to 125 mils. Th
FINAL ACCEPTANCE AND TESTING
Before final acceptance, the sanitary s Construction in Illinois*. Specifically, at
Before final acceptance, the sanitary is Construction in Illinois*. Specifically, aid. The deflection test shall be performed deflection. Maximum ring deflection of shall be considered to have reached it pulling a manded, sphere, or pin-type pip, through the pipeline. In addition, submitted to the Village of Romeoville.
shall be considered to have reached to pulling a mandrel, sphere, or pin-type
pipe, through the pipeline. In addition, submitted to the Village of Romeoville.
Vacuum feeling shall be carried out in holes shall be plugged with a non-shrin grout shall be plugged with a non-shrin grout shall be placed in the holizontal, the memhole with the vacuum tasting, manhole and the time measured for the of ASTM C1244-02. If leasing falls, do- possible) so that any leaks can be four
the menhole with the vacuum testing
of ASTM C1244-02. If testing fails, day
FLOW MONITORING PRIOR TO ACC
The developer will be required to moni excessive inflowinfiltration occurring in
C. WATER MAINS AN
WATER VALVES All valves shall be resilient wedge gate
with JURISDICTIONAL GOVERNING mains 16" diameter and larger. Valves
ASTM C478. Never transport sections manufacture so it can be installed in the
the pipe being laid. Pipe connections a Kor-N-Seal connector, as manufacture
flexible watertight joints, shall remain v Tylox Superseal and shall meet ASTM
WATER VALVES AT valves and the resilient wedge gate with JURISCICITIONAL COVERNING. mains 11 <sup>rd</sup> direnteets and larger. Valves ASTM CATE. Never transport sections marindature so of can be inside to the type being laid. Pipe connections. Nort-N-Seal corrector, an enautherture Scott-N-Seal corrector, and control of the pipe being laid. Pipe connections. Scott-N-Seal corrector, and control the control of the control to the co
Valve vaults shall be constructed in co shall be East Jordan #102223 embo or equal. Rubber gasketed boots are two adjusting rings (Min. 8" adjusting pawed areas, top ring should be rubb
or equal. Number gasketed boots are two adjusting rings (Min. 6" adjusting
VALVE BOXES
Valve boxes shall be constructed in co letters "WATER".
All fire hydrants shall be located as sh painted red. Please be conscious of di can be damaged during backfilling. If r sand blasted and repainted by an appr
can be damaged during backfilling. If r sand blasted and repainted by an appr
TAPPING SI FEVES / PRESSURE CO
The non-village (private) responsibility stop. One inch (1") taps made on duct saddle equal to Cascade Model CDC3 separation.
separation.
TAPPING SLEEVES / PRESSURE Co Pressure Connections are not allowed
Pressure Connections are not allowed Use 2-piece ductile iron bolted sleeve
(1) Tyler Union Ductile Iron MJ Ta
Lise fully ported, resilient wedge gate v concrete vaults - no valve boxes.
CHLORINATION  Gas chlorine must be used for disinfect
Only Village of Romeoville employees and safety equipment must meet or ex
or certified Illinois water operator with must have two people present to chlor
Cita chlorine must be used for disinfec Only Village of Romeoville employees and safety equipment must meet or as or certified lithnois water operator with must have two people present to other insued, and have proof of both on file Village.
Shipping and emergency pape     Proof of insurance for hauling:
(3) Commercial driver's license wi
Hazmat certificate of registratio     Hazardous materials placard d
<ul> <li>(5) macaroous materials placard d</li> <li>(6) Cylinder strapped upright in tru</li> </ul>
(b) Frauentous manning possers of (6) Cylinder stapped upright in tru. Under no circurretances will chlorine or being used it must be in a vertical posi- witten chlorination and flushing plans of any or all of the above information. I
written chlorination and flushing plan to of any or all of the above information
MISCELLANEOUS
<ol> <li>A minimum of 48 hours prior to a to get approval of said usage.</li> </ol>
Any uncategorized usages will neprior to ordering.     The developer will be required and service to identify any leaf
prior to crossing. (3) The developer will be required
and service to identify any leaf

### VILLAGE OF ROMEOVILLE JPPLEMENTARY STANDARD SPECIFICATIONS

### MPROVEMENTS.

### RS AND APPURTENANCES

oth of 5 feet. Pixes must be PVC SDR 26 when less than 15 feet deep. PVC SDR 21 when 15-20 feet deep, and PVC

- you. Must be produced both as a required for the name of the membrish wat.

  In the membrish that Chan Series Series, this size of the produced and the produced

### ND APPURTENANCES

orformance with Section IIIA Marcholes, etc. above. All vulve vaults shall be a minimum of 3' diameter. Frame and cover ossed with 1500A HD "Values" and "Village of Formonoville". All prints need to be externally wrapped with MacWings or required for all penalization shough the marchine will. Internal Editation Disminy scales are required. Minimum of of beinging and macroum of three rings (Mar. 11" adjusting height), No 1" or 2" coverate rings are allowed. Under better. Use and 11 (EVII) Minima Paren rubbe Composite Adjustions (March 15" of 3" No. 1" to 3" No. 1" of 3" N

rowed contractor prior to acceptance.

DOMENCTIONS

() for ministrances and report of the water service starts at the tap on the main, which includes the saudite and corporate

(see one pairs what the clear and what not require seadless. Are tap larger than 1" shall callice a staintness steel services

2 or equivalent (Ford = FS000) with Water Superintendent's approval. All tops shall have a minimum of three feet (5)

ction. The obtervation contractor must call 815-86-1370 a minimum of 24-hours in subserce to schedule obtervation is shall opened as settle system valvies and star contract as subservations are larger to sheet. All obtervations is shall opened as settle settle settle star of the settle se

### bly with state and federal regulations regarding transportation and handling of chlorine cylinders:

- irs for every job location

- soult in penalties. All valves and hydrants shall be submitted to the Village of Romeoville Water Department for written approval

SHOULD A CONFLICT ARISE BETWEEN THE MANHARD SPECIFICATIONS AND THE VILLAGE SPECIFICATIONS, THE VILLAGE SPECIFICATIONS TAKE PRECEDENCE.

Lkkkykkkk **D** 

O Σo

VILLAGE OF ROMEOVILLE, ILLINOIS
VILLAGE NOTES AND SPECIFICATIONS MERCEDES-BENZ CAR DEALERSHIP

PROJ. MGR.: JSP
PROJ. ASSOC: JCM
DRAWN DV: LES
DATE: 05-07-21
SCALE: N.T.S.

13 ∘ 14 FRD.RVIL01

### MANHARD CONSULTING, LTD. STANDARD SPECIFICATIONS

DEFINITION OF TERMS

"ENGINEER" shall mean Manhard Consulting, Ltd., a Civil Engineering consultant on the subject project

converse, you are man warrant containing, Ed., a Cost Engineering constitution for an adopting region.

"Public and SPEPCE/CHIOS's alter man the CHIOS preserving PLAMS and SPEPCE/CHIOS's prepared by the ENGINEER, which may be a part of the content of consents for the adopting region.

"A CONTRICTOR's all are assign preserve and preserving you will described in the PLAMS and SPECE/CHIOS's.
"AURISCICTOR'S CONTRICTOR'S all areas any managed, country, state or federal until of government from whom any expert and reast appress of the subject of means any managed. Country, state or federal until of government from whom any expert and managed areas any managed.

"AURISCICTOR'S CONTRICTOR'S ENTITY that mean any managed, country, state or federal until of government from whom any expert and managed means are supported."

### INTERPRETATION OF PLANS AND SPECIFICATIONS

- concerned.

  The DENDEER will provide the CLEAT with such information as may be required to show resided or additional distalls of constitution.

  The DENDEER will provide the CLEAT with such information as may be required to show resided or additional distalls of constitution.

  Broad any discrepancies or conflicts on the IR-ARG or SPECIPICATIONS to discovered within prior to or differ award of the context, the Australian and like called to this same block to the work to begin breven and the proper uncertains made. Native the CLEAT or the COST of the COS

### LOCATION OF UNDERGROUND FACILITIES AND UTILITIES

UNSUITABLE SOILS

PROTECTION OF TREES moved shall be protected from damage. Trees shall not be removed unless requested to do so in writing by the CLIENT

WORK AREA

UTILITY POLES

e SPECIFICATIONS that clean-up and final restoration shall be performed immediately upon completion of each phase of the work, both Project, or when so directed by the CLENT so that these areas will be restored as nearly as possible to their original condition or de but not be instead to, estimate on maintained learns and righted-dway, reclassing, christeaps, subtracks, activities, budges,

CLEANING UP

ROAD CLEANING

ALCTOR shall be solely and complishly responsible for the constitutions of the plot alls, including awary or an improve any expensive of off the such. This requirement shall apply continues all and post in contrast obstacling both as CONTRACTOR that comply with all assess and Regulations relating to the safety of persons or properly not to the protection of a persons or properly in the assess and Regulations relating to the safety of persons or properly not to the protection of a persons or properly in the design and markets of the safety and a series of the persons or properly in the safety of the safety and the safety of the safety of the safety and the safety of the safety o

Confliction or an extension of the confliction of t INSURANCE

## ying on bease jales, including any contractor, makerial supplex, or other entity shall obtain, (pror to commencing any evolt general or entity sparsed to delain, (pror to commencing any evolt general or entity sparsed and sense for probly implexes, death or properly champes justing or of any evolt, recluding the instances profice provided that any party using or inhying on these plants having obligations to maintain specific instances to provide that any party using or inhying on these plants having obligations to maintain specific instances to provide solvines and enrollment of entities of examples of the entity of the entities of instances are implicable to evolve devictions and entities of instances are implicable to evolve. The entity of the entities of instances are implicable to evolve. So continued to the entity of the entities of the entity of the entities of the en

Note: These Specifications are for Northern Illinois.

### DETAILED SPECIFICATIONS \* I. DEMOLITION

The CONTRACTOR is reagonable for demands, respond and deposal (in a location approved by all JURSDICTIONAL GOVERNING ENTITES) of all studiess, pade with, farme, fundations, count and surface, increased and contractions, respond and deposal (in a location approved by all JURSDICTIONAL GOVERNING ENTITES) of all studiess, pade with, farme, fundations, country and participations, and in the contraction of the surface in the contraction of the contraction of the surface in suitable material and substitutions of the contraction of the surface in suitable material and surface in surf

ACTOR is responsible for obtaining all permits required for demolition and disposal. Clean construction or Demolition Debris (CCDD) leating and certification or many be requested by the CONTRACTOR in order to be implemented by the cowner.

on 80005 New mant be requested by the COCKINACTOR in ord for the be implemented by the count many that the selected by the COCKINACTOR with the affected utility company. COCKINACTOR must protect the public as all times with forcing, barrieducks, enclosures, and other appropriate best messagement practices. COCKINACTOR must protect the public as all times with forcing, barrieducks, enclosures, and other appropriate best messagement practices. CONTINACTOR must protect the public as all times with forcing, barrieducks, enclosures, and other appropriate best messagement practices. All the accessa lones within the project must abril remain in services, clean of dichots, and accessable for use by emergency validaes.

TRACTOR shall make a design paking years, speaks, does up. Cut one of the form any construction activity and/or related to ensure seary and safe southern and the form and the state of the

half be exposed and sealed 3' below proposed finish grade by the CONTRACTOR in accordance with Section 520.120 (bineat edition) of on Code, Department of Public Health, and all applicable local risks and regulations. CONTRACTOR is responsible for obtaining all 2MAL GOVERNMENTAL ENTITIES for share-fromer surface.

with Date of the Manufacture (Manufacture (M

amount measure.

duling irrigation system in the areas of proposed improvements. The contractor shall cap the existing irrigation (continue to function properly.

### II.EARTHWORK

STANDARDS his work shall be completed in conformance with the applicable sections of the Standard Specifications for Road and Bridge Construction, Deparamoportation, State of Illinois, latest edition except as modified below. SOIL BORING DATA

### \* EARTHWORK CALCULATIONS AND CROSS SECTIONS

The CONTRACTOR understands that any earthwork calculations, quantities or cross sections that have been furnished by the ENCINEER was for very and are provided without any guarantee by the CLENT or ENVIEER valuationers in a lower self-stancy or accounty CONTRACTOR summer provided without any guarantee by the CLENT or ENVIEER valuationers in a lower self-stancy or accounty CONTRACTOR summer controlled to the controlled or the controlled or guarantee regarding entirents, quantities or this earthwark for the guarantee learners are controlled or self-stancy controlled to the self-stancy for self-stancy controlled to the self-stancy for self-stancy controlled to the ENGINEER or CONTRACTOR and the suppossible for any prior or export of enterties because and construction methods that are beyond the control of the ENGINEER controlled to the suppossible for any prior or export of enterties because a self-control or because a through the properties of the CNITECTOR and the suppossible for any prior or export of enterties because a believe as a believe and the score and the controlled or the CNITECTOR and the suppossible for any prior or export of enterties to because a believe as a believe as the control of the ENGINEER and the suppossible for any prior or export of enterties the extractor and the control of the ENGINEER and the suppossible for any prior or export of enterties the extractor and the enterties and controlled to the enterties and controlled t

### TOPSOIL STRIPPING

on, clearing, grubbing and tree removal, all topsoil shall be stripped from under all buildings and pavements areas, and other a the work "Invisoil stripped shall be placed in stockpiles in bootions as designated by the CUENT.

### TOPSOIL RESPREAD

SEEDING

### \* EXCAVATION AND EMBANKMENT

Specifically included in the scope of Escavation and Embankments is grading and shaping of all cut or fill areas including awakes and ditches; handling of sewer spoil, scc, and all work required to provide positive desirable at the end of each working day and upon complation of a section.

sever span, e., med all not nequent to provide posture distinguis at the ned of each working any and upon complation of all section. The CORTINGCTOR that we recognish for the securities of all sections and these and of the securities of the first section of little or the control of the section and the control of the section and the section of the se

Soil Type	Standard	Depth	Building Pads	Pavement	Landscape	Building Pads	Payement	Landscape
Granular	ASTM D 1557	Full Depth	95%	90%	80%	Min. +2% opt	opt to +2%	as directed
Cohesive (lean day)	ASTM D 1557	0" to 3"	95%	95%	85%	-1% to +2% opt	opt to +2%	as directed
Cohesive (lean day)	ASTM D 698	0" to 3"	90%	98%	85%	-1% to +2% opt	opt to +2%	as directed
Cohesive (fat clay)	ASTM D 698	minus 3'	95%	95%	85%	Min. +2% opt	opt to +2%	as directed
CONTRACTOR (b)	E modifie that CLIE	AFT if meaning or	manadian connect b	a obtained on th	of the CLIENT	more determine u	had compelled	

A soils testing firm employed by the CLIENT shall determine which soils are unsuitable. Materials in their natural state being defined as unsuitable that would be suitable material if mosture conditioned, shall be conditioned by the CONTRACTOR and used as suitable embenkment material or haused from the site. process of definition, unsuitable material shall be as follows unless determined otherwise by the Soils Engineer

- Any soil containing deleterious, or hazardous material. AASHTO T-194, organic content greater than 8.0%.

valued to the lines and grades indicated on the PLANS. All suitable materials excavated from the ditches shall be used in

\* RETAINING WALLS

EROSION CONTROL

Suitable erosion control practices shall be maintained by the CONTRACTOR in accordance with Illinois Urban Manual and all applicable Soil E Sedimentation Control ordinances and the PLANS. SWPPP monitoring (if required) shall be administrated by CONTRACTOR. UNDERCUTTING DURING EARTHWORK

(1) GEOTEXTILE FABRIC

(2) EROSION CONTROL BLANKET

(3) DEWATERING and a 3" nump capacity by the contractor is excluded. All dewatering prior to this limit is considered incidental to the contract

### III.UNDERGROUND IMPROVEMENTS

MISCELLANEOUS CONTRACT ITEMS

### A. GENERAL

SELECTED GRANULAR BACKFILL

### MANHOLES, CATCH BASIN, INLETS & VALVE VAULTS

### \* AUGER/BORING AND CASING - INTENTIONALLY OMITTED

### \* AUGER (OPEN BORE) - INTENTIONALLY OMITTED

### HORIZONTAL AND VERTICAL SEPARATION OF WATER AND SEWER MAINS

torizontal and vertical separation of water and sewer mains shall be in accordance with Standard Specifications for Water and Sewer Construction in Illinois

### \* POOL DESIGN

### B. SANITARY SEWERS AND APPURTENANCES

### \* SANITARY SEWER PIPE

Polyviryl Chloride (PVC) Sewer Pipe shall conform to ASTM D3054 (4-inch thru 15-inch) or ASTM F679 (16-inch thru 45-inch) minimum SDR 28 with flushible deletomeric seal gasket gasketed joints conforming to ASTM D3212 and F477. See Village Notes and Specifications for additional material information.

### FOUNDATION, BEDDING AND HAUNCHING

us shall be all tasked and leaked for deflection in accordance with the requirements of Section 3.1.1.2. TESTING.AND INSPECTION LOC OF SENTRATE VENETRY or THE SECTION OF SECTIO

All sentary manholes are to be tested for water fightness in accordance with ASTM CRBS "Standard Practice for Infiltration and Extilitation Acceptance Testing of Installed Precisit Concrete Pipe Sewer Lines", or ASTM C1244 "Standard Test Method for Concrete Sewer Manholes by the Negative Pressure Water ent Tural"

SERVICES A way branch or "tee" and sanitary service line, properly plugged and sealed shall be constructed as shown on the PLANS. The ends of all services shall be marked with a 4"s4" cost extending 36" above grade and painted red. The CONTRACTOR shall keep accurate records of all tive or Tee locations as

### RISERS Risers shall be constructed in locations as shown on the PLANS and according to the detail.

DROP MANHOLE CONNECTIONS

### SANITARY SEWER FORCE MAIN - INTENTIONALLY OMITTED

upon complation of construction a halvaision inspection of the savitary sewer system shall be performed on all portions of the sewer if required by the DIMEDICTIONAL CONSENSION ENTITY. Visableques and every interpret of all insilvation inspections shall be provided to the CLERT. The form of report and year and immed for the storage shall be approved by the ARRISOCCHONAL CONSENSION ENTITY.

All severs are dispuriturences shall be cleaned girt to impection and fasting required by this section.

### MISCELLANEOUS

### C. WATER MAINS AND APPURTENANCES

\* WATER MAIN PIPE (3" AND LARGER)

Ductile iron pipe shall be per ANSI/AWWA C151/A21.51, Thickness Class 52, minimum 150 pai working pressure, cement lined in accordance with ANSI/AWWA C104/A21.4, with "push on" type joints.(2)

nstallation shall be in accordance with ANSI/AWWA CBO (Ductile Iron) or ANSI/AWWA CBOS (PVC). All water main shall have reschanical joint cast iron ductile iron fittings in accordance with ANSI/AWWA C150/A21.10 or compact ductile iron fittings in accordance with ANSI/AWWA C150/A21.50 with 250 pair

Megalugs are required to brace all tess, plugs, caps, and bends of 11.1/4 degree deflection or greater. Minimum cover for all water mains, including a shall be 5-6\* from the finished grade. Water main shall include bedding and backfilling. WATER VALVES be resilient wedge gale valves conforming to the listest revision of ANSI/AWWIA C515, with a raised working pressure of 200 pail in accordant ICMAL COVERNING ENTITY requirements, except that butletify valves conforming to ANSI/AWWIA C504 shall be constructed on all value often and larger. Whish shall be non-rining often and shall close by branting closels. Valves must be Americant Flow or Ental Jordan

### VALVE VAULTS

FIRE HYDRANTS

### \* TAP, STOPS AND BOX - INTENTIONALLY OMITTED \* SMALL WATER SERVICES (2" DIAMETER OR LESS) - INTENTIONALLY OMITTED

Disinfections shall meet all of the requirements of the State of Illinois, Environmental Protection Agency, Public Water Supplies Division. The safe quality of the water supply shall be demonstrated by bacteriological analysis of samples collected at sampling taps on at least two consecutive days following disinfection of the mains and copies of the said report submitted to the Justico/IDCTOMAL COVERNION CENTITY and the CLIENT.

PRESSURE TEST

### PRESSURE CONNECTION TO EXISTING WATER MAIN

NO CONTRACTOR that necessaries pytion prosessor on existing water main at all times. Existing water main shall be boated and melanist excessories, and become the contract processor on existing water main at all times. Existing water main shall be cleared and the existence for the processor of the contract of the existing water remains what be cleared and the existence for the contract processor of the con

### DRY CONNECTION TO EXISTING WATER MAIN

A dry connection to existing water main shall include a connection to an existing water main stub where shown on the PLANS. The CONTRACTOR shall obtain approval of the JURISDICTIONAL GOVERNING ENTITY to shut down any main. including submitted of a schedule of the time of shut off and the time.

### \* POLYETHYLENE ENCASEMENT (FOR DUCTILE IRON WATER MAIN ONLY)

All watermains must be wrapped in V-BIO ™ polyethylene using Method A. FOUNDATION, BEDDING AND HAUNCHING area composite or moist fine appreciate in apportance with the above standards and placed as shown or

TRACER WIRE

### D. STORM SEWERS AND APPURTENANCES

\* STORM SEWER PIPE

- (1) Reinforced concrete pipe minimum Class IV in conformance with the latest revision of ASTM designation. Joints must be flexible gasket o-rings per ASTM C991, ASTM C433, and ASTM C1610.
- Polyvinyl Chloride (PVC) Pipe: ASTM D3034 (4-inch thru 15-inch) or ASTM F679 (18-inch thru 38-inch), rated SDR 35, confinality marked with manufacturer's name, pipe size, cell classification, SDR rating, Johns shall be flexible elastomeric seals conforming to ASTM D3212.
- High Density Polyethylene Pipe (HDPE) Smooth Interior, AASHTO Designation M252 and M294, recommen diameter of 48 inches. Pipe joints and fittings shall be waterfinit opsivated births. No band seals will be allowed. (Only permitted with Municipality Approval and/or when specifically

Precast tees, bends, and manholes may be used if permitted by the JURISDICTIONAL GOVERNMENTAL ENTITY.

### Storm sewer shall include bedding and trench backfill.

Manholes, Inlets and Catch Basins shall be constructed in confo

Parent and sections shall be pre-cast reinforced concrete faired and section with an end block cast separate as par the Illinois Department of Transport Standard \$42001 and shall be installed where shown on the PF-LNS. All fased and sections for come severs 12" in diameter and larger shall be instal grafting prefit families \$42011 and/or sections from the standard on the PF-LNS. Work shall include and block.

FOUNDATION, BEDDING AND HAUNCHING

MISCELLANEOUS

The Village requires submission of recorded video inspections of all public storm sewers.

### CONNECTION FOR STORM SERVICE TO STORM MAIN

### IV. ROADWAY AND PARKING LOT IMPROVEMENTS STANDARDS

Transportation, State of Bissas, Issaels edition (Investigate referred to collectively as the "Streeted Specifications") every as modified basis and suspite of the Societies and as adulated in the contribution contributions and the Streete Benefit and the Streete Benefi

### AGGREGATE BASE COURSE TYPE 'B' AUDITION OF THE BOOK OF THE BO

PROOF ROLL The CONTRACTOR shall prior find the subgrade with either a 2-wis truck baseds to 27,000 lbs. Or a 3-wis truck baseds to 45,000 lbs. or as specified the CONTRACTOR shall prior find the subgrade with either as 2-wis truck based to 27,000 lbs. Or a 3-wis truck based to 45,000 lbs. or as specified at 24,400 lbs. or as specified to 24,400 lbs. or as specified shall be a 14,400 lbs. or 24,400 lbs. OFFIRM 5 lbs. OFFIRM 5 lbs. or as specified at 24,400 lbs. or as specified at 24,400 lbs. or 24,400 lbs. OFFIRM 5 lbs. or 24,400 lbs. or

Pavement subgrade material shall not be removed, placed or disturbed after proof roll testing has been completed prior to the pavement construction.

Additional testing will be required if the pavement subgrade is disturbed and/or material is removed from or placed on the pavement subgrade after proof

### \* HOT-MIX ASPHALT BASE COURSE - INTENTIONALLY OMITTED

### HOT-MIX ASPHALT BINDER AND SURFACE COURSE

binder and surface courses, shall be constructed to the competited frictiones as alream on the PLANS. The base course shall be cleaned and primed in decrease with the ALPSSCETIONAL COVERNAD CENTER. The surface course shall be placed with the base and course shall be cleaned and primed in or, and efficiently the ALPSSCETIONAL COVERNAD CENTER. The surface course shall be introduced us the base and counsels have been once as the state of course shall be introduced and primed in an excellence used the surface course, the placed course shall be introduced and primed in already considered with the course shall be introduced to the placed course shall be introduced to the placed course shall be considered to the placed course shall

### CONCRETE PAVEMENTS instructed in accordance with American Concrete Institute Standard ACI330R-08 and as shown on the PLANS.

Slabs and driveway aprons shall be constructed with 6" x 6" - W1.4 x W1.4 welded wire fabric positioned on steel chair supports. Placing fabric during the concrete position persisten will not be allowed.

The CONTRACTOR is responsible to guard fresh concrete until it sets and hardens sufficiently to prevent people from writing, welking, riding bicycles or otherwise permanently marking, defacing or causing depressions of any type in the concrete. Any concrete so marked will be removed and replaced by the

The CONTRACTOR shall protect the pavement against all traffic, including that of their own employees or other workers, until test specimens have attained the specified strength. SIDEWALKS

\* CURB AND GUTTER Curb and gutter shall be as per the detail shown on the PLANS, which shall include compacted aggregate base course under the curb a contraction and expansion joints shall be constructed as per the detail. Three (3) drilled and grouted 15t No. 5 reinforcing bars or expan diameter, shall be used to tell the new curb and gutter to the assisting out and gutter or each side.

### CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

FRAME ADJUSTMENTS

The road configurate that be reportable for making find adjustments and the satisfies on a bituminous martin-princip compound all contings becaused in the The road configurate that the reportable places and in the second of th PAVEMENT MARKING - PAINT The CONTRACTOR shall famish and apply painted marking lines, letters & symbols of the patterns, sizes and colors where shown on the PLANS. Paint peverent marking shall be applied in accordance with the IDOT Standard Specifications.

### orary pavement markings may be required for occupancy if only 1st lift of sophalt is installed. The CONTRACTOR shall famish and apply temporary gincluding all necessary painted marking lines, laters & symbols of the patterns, sizes and colors where shown on the PLANS to obtain occupancy shall to the contract, in addition to the Flare Pavement Markings upon completion of full depth pavement installation. \* PAVEMENT MARKING - THERMOPLASTIC - INTENTIONALLY OMITTED

QUALITY CONTROL

SHOULD A CONFLICT ARISE BETWEEN THE MANHARD SPECIFICATIONS AND THE VILLAGE SPECIFICATIONS, THE VILLAGE SPECIFICATIONS TAKE PRECEDENCE

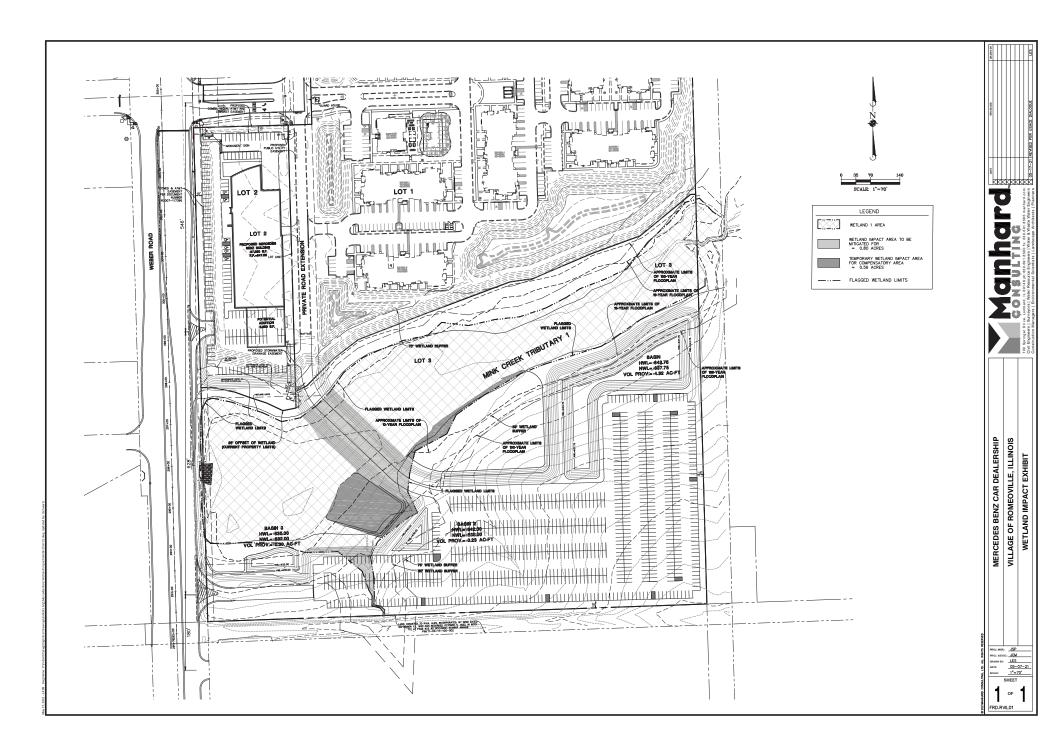
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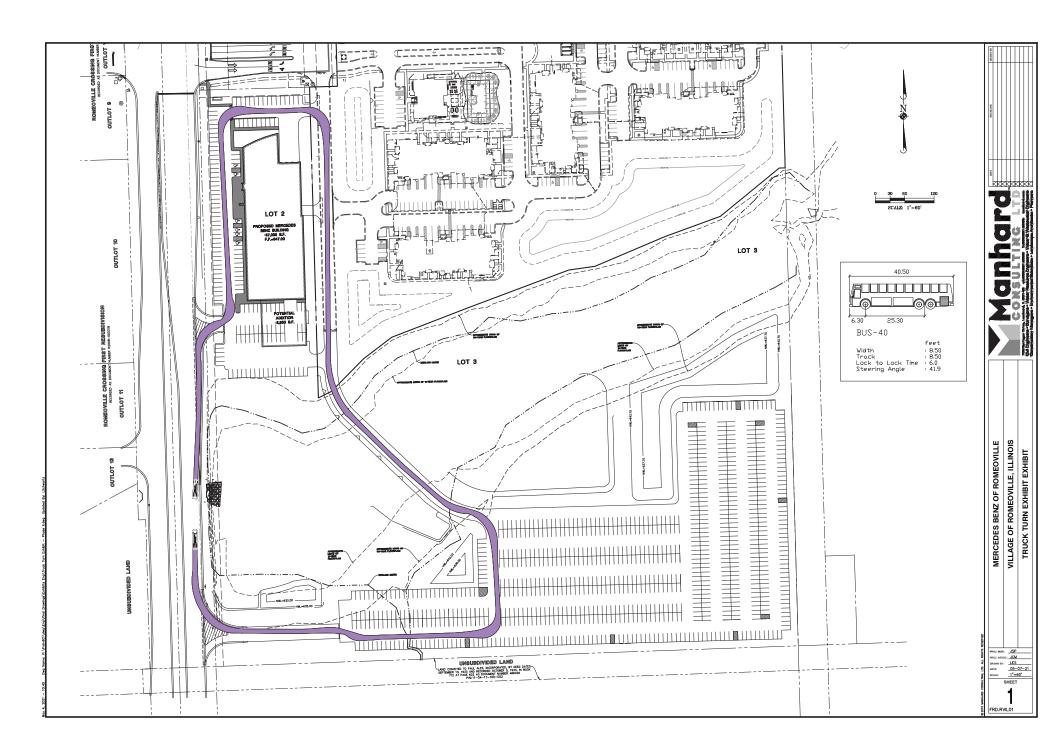
DEALERSHIP ROMEOVILLE, ILLINOIS SPECIFICATIONS CAR MERCEDES-BENZ CONSTRUCTION Р

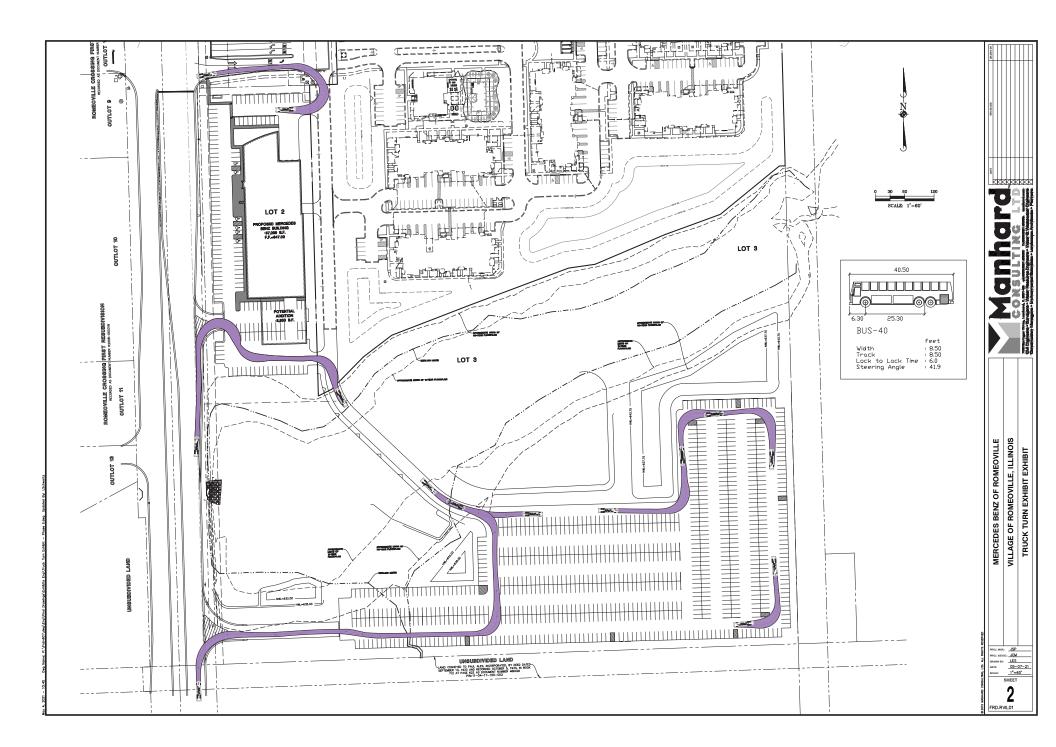
VILLAGE

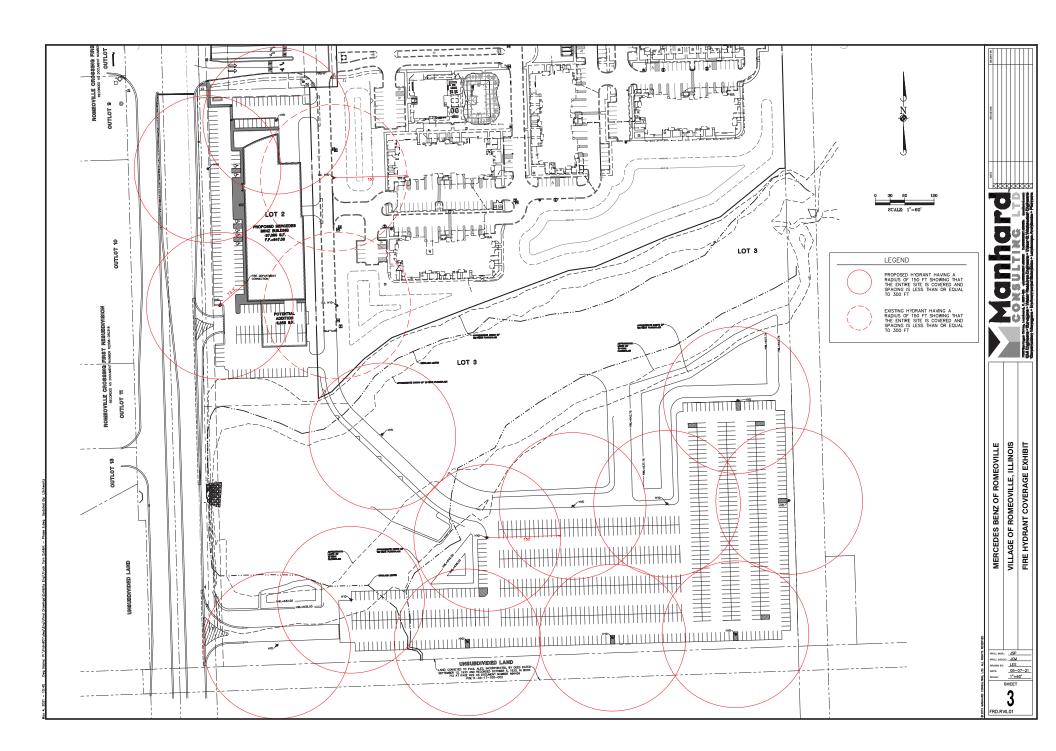
PROJ. MGR: JSP
PROJ. ASSOC: JCM
DRAWN BY: LES 05-07-21 N.T.S.

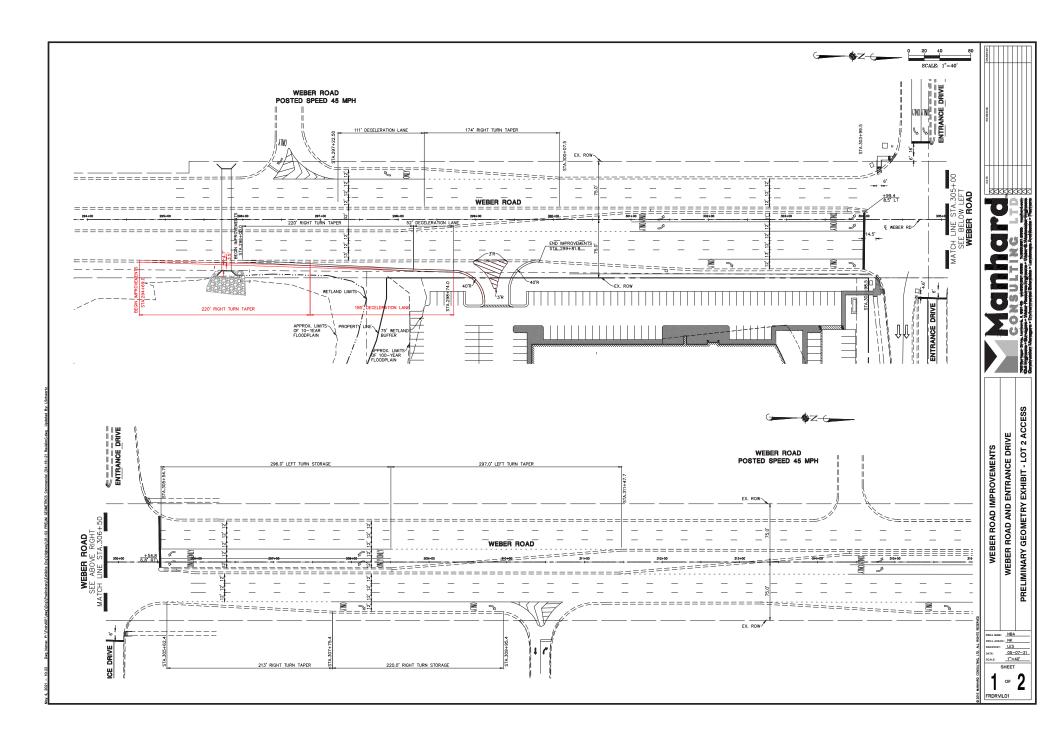
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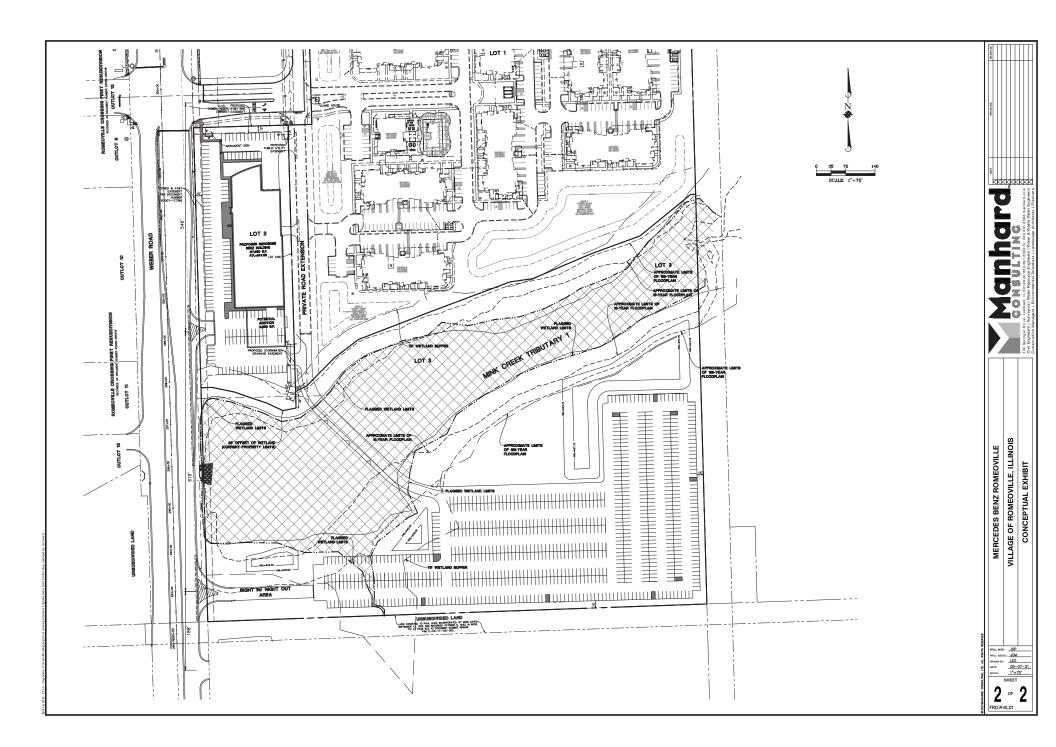


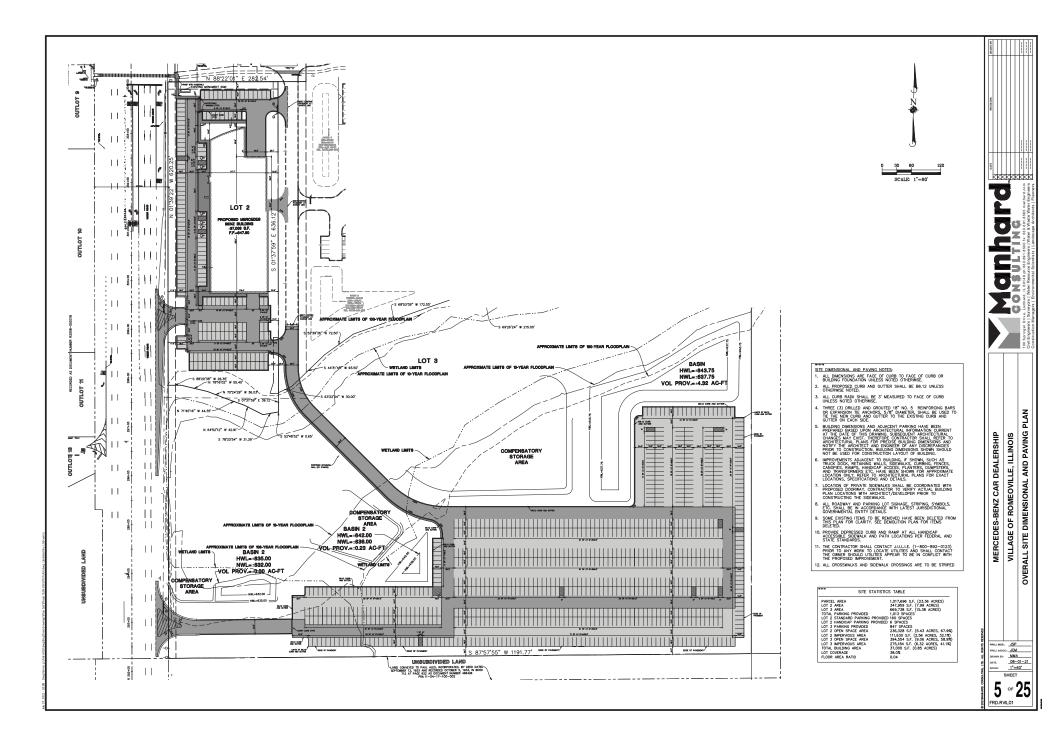


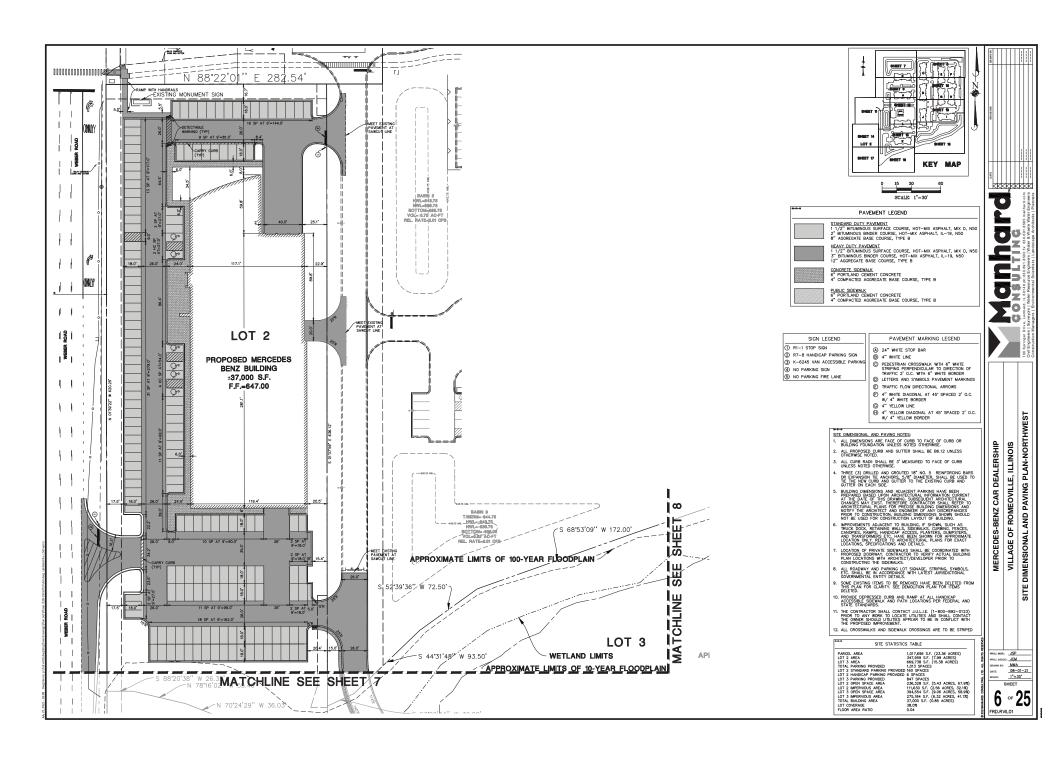


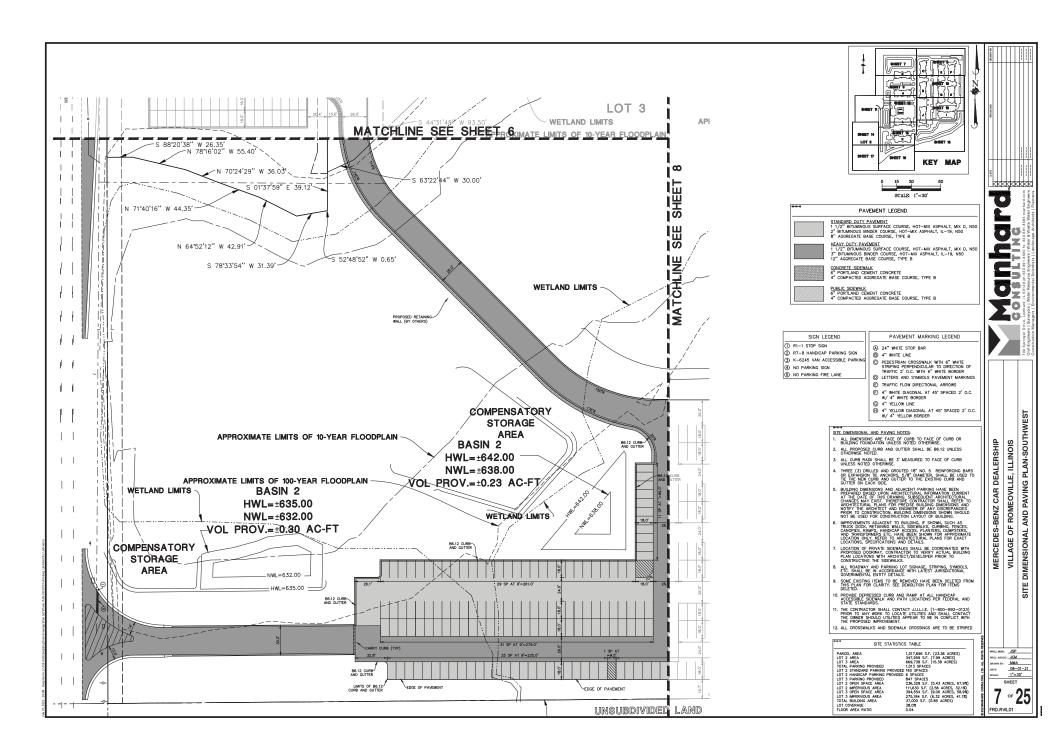


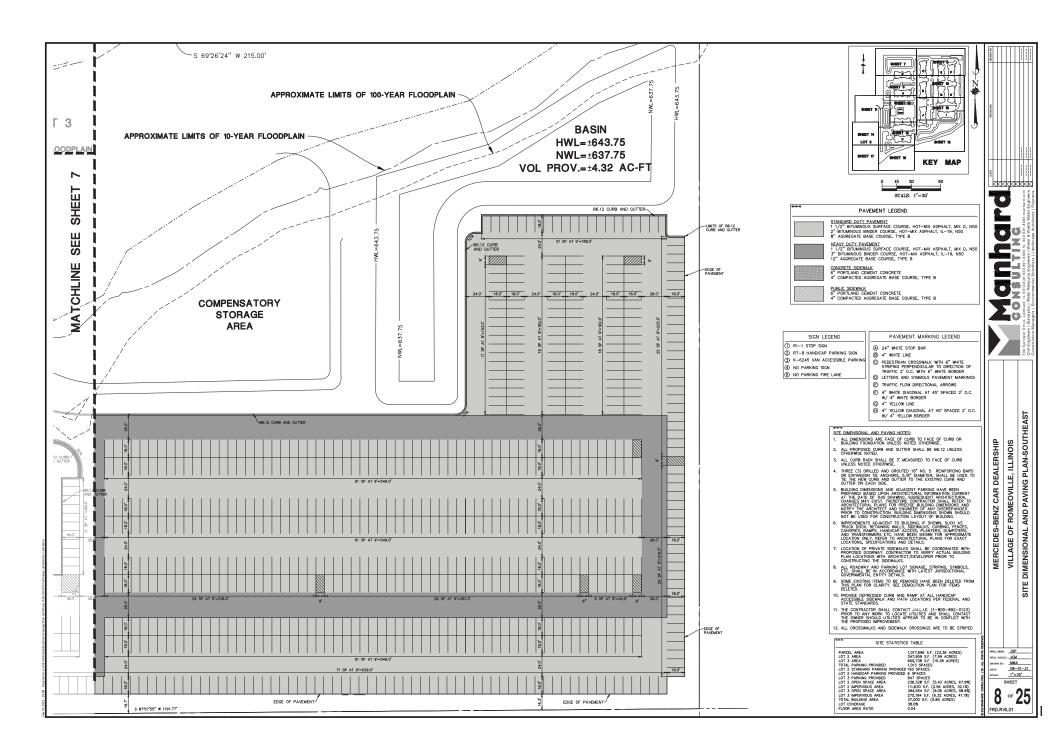














Black aluminum panel Black aluminum White aluminum panel panel canopy SERVICE Clear curtainwall around showroom

RENDERING AT SERVICE DRIVE SCALE: NTS

White aluminum Black aluminum panel canopy panel MB signage Black aluminum panel Clear curtainwall around showroom

S I M O N
DESIGN GROUP, LLC

PROJECT:

Weber Road Romeoville, IL

ARCHITECT:

500 Lake Cook Road, Suite 350 Deerfield, IL 60015

Mercedes-Benz

**SPRINTER** 

Mercedes Benz Sprinter of Romeoville

Tel: 847-571-3814 design@simon-arch.com

STRUCTURAL:

MECH/PLUMB:

**ELECTRICAL**:

JULY 08, 2020 - CITY DESIGN REVIEW

**EXTERIOR RENDERING** 

A4.10



# EXAMPLE AT SHOWROOM SCALE: NTS

1



EXAMPLE AT SHOWROOM SCALE: NTS

PROJECT:





Mercedes Benz Sprinter of Romeoville Weber Road Romeoville, IL

ARCHITECT:



S I M O N
DESIGN GROUP, LLC

ARCHITECTUR DESIG

500 Lake Cook Road, Suite 350 Deerfield, IL 60015

Tel: 847-571-3814 design@simon-arch.com

STRUCTURAL:

MECH/PLUMB:

ELECTRICAL:

JULY 08, 2020 - CITY DESIGN REVIEW

MANUFACTURER STANDARDS

A4.11